# Astrodienst Ephemeris Tables

## from the year 100 BCE for 50 years

tropical geocentric zodiac

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

Programming
Dieter Koch and Alois Treindl
based on Swiss Ephemeris

Code D5EPX

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

# ASTRODIENST EPHEMERIS for the year 100 BCE
# geocentric

## JANUARY 100 BCE (-99) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 30 30 | 8♑39'47 | 29♍53 | 26♐20 | 8♐48 | 19♒10 | 16♈26 | 12♑23 | 24♑ 3 | 6♈36 | 28°R58 | 13°R49 | 12♉45 | 21♍56 | n.a. | S 1 |
| M 2 | 6 34 26 | 9°40'43 | 11♎43 | 27°55 | 10° 2 | 19°56 | 16°30 | 12°31 | 24° 7 | 6°36 | 28♈58 | 13°D48 | 12°41 | 22° 3 | n.a. | M 2 |
| T 3 | 6 38 23 | 10°41'38 | 23°40 | 29°31 | 11°16 | 20°42 | 16°34 | 12°38 | 24°10 | 6°37 | 28°58 | 13♉49 | 12°38 | 22°10 | n.a. | T 3 |
| W 4 | 6 42 20 | 11°42'32 | 5♏48 | 1♑ 8 | 12°30 | 21°27 | 16°38 | 12°45 | 24°13 | 6°37 | 28°57 | 13°50 | 12°35 | 22°16 | n.a. | W 4 |
| T 5 | 6 46 16 | 12°43'25 | 18°12 | 2°45 | 13°45 | 22°13 | 16°43 | 12°52 | 24°17 | 6°38 | 28°57 | 13°R50 | 12°32 | 22°23 | n.a. | T 5 |
| F 6 | 6 50 13 | 13°44'17 | 0♐57 | 4°23 | 14°59 | 22°58 | 16°47 | 12°59 | 24°20 | 6°38 | 28°57 | 13°49 | 12°29 | 22°30 | n.a. | F 6 |
| S 7 | 6 54 9 | 14°45'08 | 14° 5 | 6° 2 | 16°13 | 23°44 | 16°52 | 13° 7 | 24°24 | 6°39 | 28°57 | 13°45 | 12°26 | 22°36 | n.a. | S 7 |
| S 8 | 6 58 6 | 15°45'58 | 27°38 | 7°41 | 17°27 | 24°29 | 16°57 | 13°14 | 24°27 | 6°40 | 28°57 | 13°38 | 12°22 | 22°43 | n.a. | S 8 |
| M 9 | 7 2 2 | 16°46'47 | 11♑34 | 9°22 | 18°42 | 25°15 | 17° 2 | 13°21 | 24°31 | 6°40 | 28°57 | 13°29 | 12°19 | 22°50 | n.a. | M 9 |
| T 10 | 7 5 59 | 17°47'34 | 25°49 | 11° 3 | 19°56 | 26° 0 | 17° 7 | 13°28 | 24°34 | 6°41 | 28°56 | 13°19 | 12°16 | 22°56 | n.a. | T 10 |
| W11 | 7 9 56 | 18°48'20 | 10♒19 | 12°45 | 21°10 | 26°46 | 17°12 | 13°35 | 24°38 | 6°42 | 28°56 | 13° 8 | 12°13 | 23° 3 | n.a. | W11 |
| T 12 | 7 13 52 | 19°49'04 | 24°55 | 14°28 | 22°24 | 27°31 | 17°18 | 13°43 | 24°41 | 6°43 | 28°56 | 12°58 | 12°10 | 23°10 | n.a. | T 12 |
| F 13 | 7 17 49 | 20°49'46 | 9♓31 | 16°11 | 23°39 | 28°16 | 17°24 | 13°50 | 24°45 | 6°43 | 28°56 | 12°50 | 12° 7 | 23°17 | n.a. | F 13 |
| S 14 | 7 21 45 | 21°50'26 | 24° 0 | 17°56 | 24°53 | 29° 2 | 17°30 | 13°57 | 24°48 | 6°44 | 28°56 | 12°45 | 12° 3 | 23°23 | n.a. | S 14 |
| S 15 | 7 25 42 | 22°51'05 | 8♈18 | 19°41 | 26° 7 | 29°47 | 17°36 | 14° 4 | 24°51 | 6°45 | 28°D56 | 12°42 | 12° 0 | 23°30 | n.a. | S 15 |
| M16 | 7 29 38 | 23°51'41 | 22°23 | 21°27 | 27°21 | 0♓32 | 17°42 | 14°11 | 24°55 | 6°46 | 28°56 | 12°D41 | 11°57 | 23°37 | n.a. | M16 |
| T 17 | 7 33 35 | 24°52'16 | 6♉15 | 23°14 | 28°36 | 1°17 | 17°49 | 14°18 | 24°58 | 6°47 | 28°56 | 12°R41 | 11°54 | 23°43 | n.a. | T 17 |
| W18 | 7 37 31 | 25°52'49 | 19°53 | 25° 2 | 29°50 | 2° 2 | 17°55 | 14°25 | 25° 2 | 6°48 | 28°56 | 12°41 | 11°51 | 23°50 | n.a. | W18 |
| T 19 | 7 41 28 | 26°53'19 | 3♊19 | 26°50 | 1♑ 4 | 2°48 | 18° 2 | 14°33 | 25° 5 | 6°49 | 28°56 | 12°39 | 11°47 | 23°57 | n.a. | T 19 |
| F 20 | 7 45 24 | 27°53'48 | 16°33 | 28°40 | 2°18 | 3°33 | 18° 9 | 14°40 | 25° 9 | 6°50 | 28°56 | 12°35 | 11°44 | 24° 3 | n.a. | F 20 |
| S 21 | 7 49 21 | 28°54'16 | 29°37 | 0♒30 | 3°33 | 4°18 | 18°16 | 14°47 | 25°12 | 6°51 | 28°57 | 12°28 | 11°41 | 24°10 | n.a. | S 21 |
| S 22 | 7 53 18 | 29°54'41 | 12♋30 | 2°21 | 4°47 | 5° 3 | 18°23 | 14°54 | 25°16 | 6°52 | 28°57 | 12°18 | 11°38 | 24°17 | n.a. | S 22 |
| M23 | 7 57 14 | 0♒55'04 | 25°12 | 4°13 | 6° 1 | 5°47 | 18°30 | 15° 1 | 25°19 | 6°53 | 28°57 | 12° 6 | 11°35 | 24°23 | n.a. | M23 |
| T 24 | 8 1 11 | 1°55'26 | 7♌43 | 6° 5 | 7°15 | 6°32 | 18°38 | 15° 8 | 25°23 | 6°54 | 28°57 | 11°52 | 11°32 | 24°30 | n.a. | T 24 |
| W25 | 8 5 7 | 2°55'45 | 20° 3 | 7°58 | 8°30 | 7°17 | 18°46 | 15°15 | 25°26 | 6°56 | 28°57 | 11°38 | 11°28 | 24°37 | n.a. | W25 |
| T 26 | 8 9 4 | 3°56'03 | 2♍12 | 9°52 | 9°44 | 8° 2 | 18°53 | 15°22 | 25°30 | 6°57 | 28°57 | 11°25 | 11°25 | 24°43 | n.a. | T 26 |
| F 27 | 8 13 0 | 4°56'19 | 14°12 | 11°46 | 10°58 | 8°47 | 19° 1 | 15°29 | 25°33 | 6°58 | 28°58 | 11°14 | 11°22 | 24°50 | n.a. | F 27 |
| S 28 | 8 16 57 | 5°56'34 | 26° 4 | 13°40 | 12°12 | 9°31 | 19° 9 | 15°36 | 25°37 | 6°59 | 28°58 | 11° 6 | 11°19 | 24°57 | n.a. | S 28 |
| S 29 | 8 20 54 | 6°56'46 | 7♎53 | 15°34 | 13°27 | 10°16 | 19°18 | 15°43 | 25°40 | 7° 1 | 28°58 | 11° 0 | 11°16 | 25° 4 | n.a. | S 29 |
| M30 | 8 24 50 | 7°56'57 | 19°42 | 17°27 | 14°41 | 11° 1 | 19°26 | 15°49 | 25°43 | 7° 2 | 28°59 | 10°57 | 11°13 | 25°10 | n.a. | M30 |
| T 31 | 8 28 47 | 8♒57'07 | 1♏37 | 19♒21 | 15♑55 | 11♓45 | 19♈35 | 15♑56 | 25♑47 | 7♈ 3 | 28♈59 | 10♉56 | 11♉ 9 | 25♍17 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| S 1 | 23 s25 | 3n18 | 3n33 | 25 s 2 | 1 s22 | 21 s 6 | 0n56 | 16 s10 | 0 s58 | 5n28 | 1 s10 | 23 s26 | 0 s18 | 22 s 7 | 0 s35 | 0n53 | 1 s56 | 1 s43 | 13 s51 | 16n10 | 15n50 | 6n54 | | | n.a. |
| M 2 | 23 21 | 2 s11 | 2 43 | 25 9 | 1 27 | 21 20 | 0 53 | 15 54 | 0 58 | 5 29 | 1 10 | 23 25 | 0 18 | 22 6 | 0 35 | 0 53 | 1 56 | 1 43 | 13 50 | 16 10 | 15 49 | 6 50 | | | n.a. |
| T 3 | 23 16 | 7 39 | 1 46 | 25 14 | 1 32 | 21 33 | 0 50 | 15 39 | 0 57 | 5 31 | 1 9 | 23 24 | 0 18 | 22 5 | 0 35 | 0 53 | 1 56 | 1 43 | 13 50 | 16 10 | 15 48 | 6 47 | | | n.a. |
| W 4 | 23 11 | 12 56 | 0 43 | 25 18 | 1 36 | 21 46 | 0 48 | 15 24 | 0 56 | 5 33 | 1 9 | 23 24 | 0 19 | 22 5 | 0 35 | 0 53 | 1 56 | 1 43 | 13 50 | 16 10 | 15 47 | 6 44 | | | n.a. |
| T 5 | 23 6 | 17 49 | 0 s23 | 25 21 | 1 40 | 21 58 | 0 45 | 15 8 | 0 55 | 5 35 | 1 9 | 23 23 | 0 19 | 22 4 | 0 35 | 0 54 | 1 56 | 1 42 | 13 49 | 16 10 | 15 46 | 6 41 | | | n.a. |
| F 6 | 22 59 | 22 3 | 1 30 | 25 22 | 1 44 | 22 9 | 0 42 | 14 52 | 0 55 | 5 37 | 1 8 | 23 23 | 0 19 | 22 3 | 0 35 | 0 54 | 1 55 | 1 42 | 13 49 | 16 10 | 15 45 | 6 38 | | | n.a. |
| S 7 | 22 53 | 25 18 | 2 34 | 25 21 | 1 47 | 22 20 | 0 39 | 14 37 | 0 54 | 5 39 | 1 8 | 23 22 | 0 19 | 22 3 | 0 35 | 0 54 | 1 55 | 1 42 | 13 49 | 16 9 | 15 44 | 6 34 | | | n.a. |
| S 8 | 22 46 | 27 12 | 3 31 | 25 19 | 1 50 | 22 30 | 0 36 | 14 21 | 0 53 | 5 41 | 1 8 | 23 21 | 0 19 | 22 2 | 0 35 | 0 55 | 1 55 | 1 42 | 13 49 | 16 7 | 15 43 | 6 31 | | | n.a. |
| M 9 | 22 39 | 27 28 | 4 17 | 25 15 | 1 53 | 22 40 | 0 34 | 14 5 | 0 53 | 5 44 | 1 7 | 23 21 | 0 19 | 22 2 | 0 35 | 0 55 | 1 55 | 1 41 | 13 48 | 16 4 | 15 42 | 6 28 | | | n.a. |
| T 10 | 22 31 | 25 57 | 4 49 | 25 10 | 1 56 | 22 49 | 0 31 | 13 48 | 0 52 | 5 46 | 1 7 | 23 20 | 0 19 | 22 1 | 0 35 | 0 55 | 1 55 | 1 41 | 13 48 | 16 1 | 15 41 | 6 25 | | | n.a. |
| W11 | 22 22 | 22 42 | 5 2 | 25 2 | 1 58 | 22 57 | 0 28 | 13 32 | 0 51 | 5 48 | 1 7 | 23 19 | 0 19 | 22 0 | 0 35 | 0 56 | 1 55 | 1 41 | 13 48 | 15 57 | 15 40 | 6 22 | | | n.a. |
| T 12 | 22 14 | 18 0 | 4 56 | 24 53 | 1 59 | 23 4 | 0 25 | 13 16 | 0 51 | 5 51 | 1 7 | 23 19 | 0 19 | 22 0 | 0 35 | 0 56 | 1 55 | 1 41 | 13 47 | 15 54 | 15 39 | 6 18 | | | n.a. |
| F 13 | 22 4 | 12 16 | 4 31 | 24 43 | 2 1 | 23 11 | 0 22 | 12 59 | 0 50 | 5 53 | 1 6 | 23 18 | 0 19 | 21 59 | 0 35 | 0 56 | 1 55 | 1 40 | 13 47 | 15 52 | 15 38 | 6 15 | | | n.a. |
| S 14 | 21 55 | 5 54 | 3 48 | 24 30 | 2 1 | 23 17 | 0 20 | 12 43 | 0 49 | 5 56 | 1 6 | 23 17 | 0 19 | 21 59 | 0 35 | 0 57 | 1 55 | 1 40 | 13 47 | 15 50 | 15 38 | 6 12 | | | n.a. |
| S 15 | 21 45 | 0n42 | 2 52 | 24 15 | 2 2 | 23 22 | 0 17 | 12 26 | 0 49 | 5 58 | 1 6 | 23 17 | 0 19 | 21 58 | 0 35 | 0 57 | 1 55 | 1 40 | 13 46 | 15 49 | 15 37 | 6 9 | | | n.a. |
| M16 | 21 35 | 7 11 | 1 46 | 23 59 | 2 2 | 23 27 | 0 14 | 12 9 | 0 48 | 6 1 | 1 5 | 23 16 | 0 19 | 21 57 | 0 35 | 0 58 | 1 55 | 1 39 | 13 46 | 15 49 | 15 36 | 6 5 | | | n.a. |
| T 17 | 21 24 | 13 13 | 0 34 | 23 41 | 2 1 | 23 31 | 0 11 | 11 52 | 0 47 | 6 4 | 1 5 | 23 15 | 0 20 | 21 57 | 0 35 | 0 58 | 1 55 | 1 39 | 13 46 | 15 49 | 15 35 | 6 2 | | | n.a. |
| W18 | 21 13 | 18 31 | 0n38 | 23 21 | 2 1 | 23 34 | 0 8 | 11 35 | 0 46 | 6 7 | 1 5 | 23 15 | 0 20 | 21 56 | 0 35 | 0 59 | 1 55 | 1 39 | 13 45 | 15 49 | 15 34 | 5 59 | | | n.a. |
| T 19 | 21 1 | 22 48 | 1 47 | 22 58 | 1 59 | 23 37 | 0 6 | 11 18 | 0 46 | 6 9 | 1 5 | 23 14 | 0 20 | 21 55 | 0 35 | 0 59 | 1 55 | 1 39 | 13 45 | 15 49 | 15 33 | 5 56 | | | n.a. |
| F 20 | 20 49 | 25 49 | 2 49 | 22 34 | 1 57 | 23 39 | 0 3 | 11 1 | 0 45 | 6 12 | 1 4 | 23 13 | 0 20 | 21 55 | 0 35 | 0 59 | 1 55 | 1 38 | 13 45 | 15 47 | 15 32 | 5 53 | | | n.a. |
| S 21 | 20 37 | 27 24 | 3 41 | 22 8 | 1 55 | 23 40 | 0 0 | 10 44 | 0 44 | 6 15 | 1 4 | 23 12 | 0 20 | 21 54 | 0 35 | 1 0 | 1 55 | 1 38 | 13 44 | 15 45 | 15 31 | 5 49 | | | n.a. |
| S 22 | 20 24 | 27 27 | 4 21 | 21 40 | 1 52 | 23 40 | 0 s 3 | 10 27 | 0 44 | 6 18 | 1 4 | 23 12 | 0 20 | 21 53 | 0 35 | 1 0 | 1 54 | 1 38 | 13 44 | 15 42 | 15 30 | 5 46 | | | n.a. |
| M23 | 20 11 | 26 2 | 4 47 | 21 10 | 1 48 | 23 40 | 0 5 | 10 9 | 0 43 | 6 21 | 1 3 | 23 11 | 0 20 | 21 53 | 0 35 | 1 1 | 1 54 | 1 37 | 13 44 | 15 38 | 15 29 | 5 43 | | | n.a. |
| T 24 | 19 57 | 23 21 | 4 59 | 20 38 | 1 44 | 23 39 | 0 8 | 9 52 | 0 42 | 6 25 | 1 3 | 23 10 | 0 20 | 21 52 | 0 35 | 1 1 | 1 54 | 1 37 | 13 43 | 15 34 | 15 28 | 5 40 | | | n.a. |
| W25 | 19 43 | 19 39 | 4 57 | 20 5 | 1 39 | 23 37 | 0 11 | 9 34 | 0 41 | 6 28 | 1 3 | 23 10 | 0 20 | 21 52 | 0 35 | 1 2 | 1 54 | 1 36 | 13 43 | 15 30 | 15 27 | 5 36 | | | n.a. |
| T 26 | 19 29 | 15 10 | 4 41 | 19 29 | 1 34 | 23 34 | 0 13 | 9 17 | 0 41 | 6 31 | 1 3 | 23 9 | 0 20 | 21 51 | 0 35 | 1 2 | 1 54 | 1 36 | 13 43 | 15 26 | 15 26 | 5 33 | | | n.a. |
| F 27 | 19 15 | 10 10 | 4 12 | 18 52 | 1 28 | 23 31 | 0 16 | 8 59 | 0 40 | 6 34 | 1 2 | 23 8 | 0 20 | 21 50 | 0 35 | 1 3 | 1 54 | 1 36 | 13 43 | 15 22 | 15 25 | 5 30 | | | n.a. |
| S 28 | 19 0 | 4 50 | 3 33 | 18 12 | 1 21 | 23 27 | 0 19 | 8 42 | 0 39 | 6 38 | 1 2 | 23 7 | 0 20 | 21 50 | 0 35 | 1 4 | 1 54 | 1 35 | 13 42 | 15 19 | 15 24 | 5 27 | | | n.a. |
| S 29 | 18 45 | 0 s38 | 2 45 | 17 32 | 1 14 | 23 22 | 0 21 | 8 24 | 0 39 | 6 41 | 1 2 | 23 7 | 0 21 | 21 49 | 0 35 | 1 4 | 1 54 | 1 35 | 13 42 | 15 18 | 15 23 | 5 23 | | | n.a. |
| M30 | 18 29 | 6 6 | 1 50 | 16 49 | 1 6 | 23 17 | 0 24 | 8 6 | 0 38 | 6 44 | 1 2 | 23 6 | 0 21 | 21 48 | 0 35 | 1 5 | 1 54 | 1 34 | 13 42 | 15 17 | 15 22 | 5 20 | | | n.a. |
| T 31 | 18 s13 | 11 s24 | 0n49 | 16 s 6 | 0 s57 | 23 s11 | 0 s26 | 7 s48 | 0 s37 | 6n48 | 1 s 1 | 23 s 5 | 0 s21 | 21 s48 | 0 s35 | 1n 5 | 1 s54 | 1 s34 | 13 s41 | 15n17 | 15n21 | 5n17 | | | n.a. |

Julian Day Number = 1684898.5, Delta T = 03h13m31s
Ecliptic obliquity = 23°42'32, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°26'45, Lahiri = - 5°19'45 Julian Calendar 1 Jan. 100 BCE == Greg. Calendar 30 Dec. 101 BCE

The year -99 astronomical counting style corresponds to year 100 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 100 BCE
# geocentric

## FEBRUARY 100 BCE (-99) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 8 32 43 | 9♒57'14 | 13♏42 | 21♒13 | 17♑ 9 | 12♓30 | 19♈43 | 16♑ 3 | 25♑50 | 7♈ 5 | 28♈59 | 10°R56 | 11♉ 6 | 25♍24 | n.a. | W 1 |
| T 2 | 8 36 40 | 10°57'21 | 26° 4 | 23° 5 | 18°23 | 13°14 | 19°52 | 16°10 | 25°54 | 7° 6 | 29° 0 | 10♉56 | 11° 3 | 25°30 | n.a. | T 2 |
| F 3 | 8 40 36 | 11°57'25 | 8♐46 | 24°55 | 19°38 | 13°59 | 20° 1 | 16°17 | 25°57 | 7° 7 | 29° 0 | 10°54 | 11° 0 | 25°37 | n.a. | F 3 |
| S 4 | 8 44 33 | 12°57'28 | 21°55 | 26°43 | 20°52 | 14°43 | 20°10 | 16°23 | 26° 0 | 7° 9 | 29° 0 | 10°50 | 10°57 | 25°44 | n.a. | S 4 |
| S 5 | 8 48 29 | 13°57'29 | 5♑32 | 28°29 | 22° 6 | 15°28 | 20°19 | 16°30 | 26° 4 | 7°10 | 29° 1 | 10°43 | 10°53 | 25°50 | n.a. | S 5 |
| M 6 | 8 52 26 | 14°57'28 | 19°37 | 0♓12 | 23°20 | 16°12 | 20°28 | 16°37 | 26° 7 | 7°12 | 29° 1 | 10°34 | 10°50 | 25°57 | n.a. | M 6 |
| T 7 | 8 56 23 | 15°57'26 | 4♒ 8 | 1°52 | 24°35 | 16°56 | 20°38 | 16°43 | 26°10 | 7°13 | 29° 2 | 10°22 | 10°47 | 26° 4 | n.a. | T 7 |
| W 8 | 9 0 19 | 16°57'21 | 18°58 | 3°28 | 25°49 | 17°41 | 20°47 | 16°50 | 26°14 | 7°15 | 29° 2 | 10°10 | 10°44 | 26°10 | n.a. | W 8 |
| T 9 | 9 4 16 | 17°57'14 | 3♓58 | 4°59 | 27° 3 | 18°25 | 20°57 | 16°56 | 26°17 | 7°17 | 29° 3 | 9°59 | 10°41 | 26°17 | n.a. | T 9 |
| F 10 | 9 8 12 | 18°57'05 | 18°59 | 6°26 | 28°17 | 19° 9 | 21° 7 | 17° 3 | 26°20 | 7°18 | 29° 3 | 9°50 | 10°38 | 26°24 | n.a. | F 10 |
| S 11 | 9 12 9 | 19°56'54 | 3♈51 | 7°48 | 29°31 | 19°53 | 21°16 | 17° 9 | 26°24 | 7°20 | 29° 4 | 9°44 | 10°34 | 26°30 | n.a. | S 11 |
| S 12 | 9 16 5 | 20°56'40 | 18°28 | 9° 3 | 0♒46 | 20°37 | 21°26 | 17°16 | 26°27 | 7°22 | 29° 5 | 9°40 | 10°31 | 26°37 | n.a. | S 12 |
| M13 | 9 20 2 | 21°56'24 | 2♉46 | 10°13 | 2° 0 | 21°21 | 21°37 | 17°22 | 26°30 | 7°23 | 29° 5 | 9°39 | 10°28 | 26°44 | n.a. | M13 |
| T 14 | 9 23 58 | 22°56'06 | 16°42 | 11°15 | 3°14 | 22° 5 | 21°47 | 17°29 | 26°33 | 7°25 | 29° 6 | 9°39 | 10°25 | 26°50 | n.a. | T 14 |
| W15 | 9 27 55 | 23°55'45 | 0♊18 | 12°11 | 4°28 | 22°49 | 21°57 | 17°35 | 26°36 | 7°27 | 29° 6 | 9°38 | 10°22 | 26°57 | n.a. | W15 |
| T 16 | 9 31 51 | 24°55'22 | 13°35 | 12°58 | 5°42 | 23°33 | 22° 7 | 17°41 | 26°40 | 7°28 | 29° 7 | 9°37 | 10°19 | 27° 4 | n.a. | T 16 |
| F 17 | 9 35 48 | 25°54'57 | 26°36 | 13°39 | 6°56 | 24°17 | 22°18 | 17°47 | 26°43 | 7°30 | 29° 8 | 9°34 | 10°15 | 27°11 | n.a. | F 17 |
| S 18 | 9 39 45 | 26°54'29 | 9♋23 | 14°11 | 8°11 | 25° 0 | 22°29 | 17°53 | 26°46 | 7°32 | 29° 9 | 9°27 | 10°12 | 27°17 | n.a. | S 18 |
| S 19 | 9 43 41 | 27°53'59 | 21°58 | 14°35 | 9°25 | 25°44 | 22°39 | 18° 0 | 26°49 | 7°34 | 29° 9 | 9°18 | 10° 9 | 27°24 | n.a. | S 19 |
| M20 | 9 47 38 | 28°53'26 | 4♌23 | 14°51 | 10°39 | 26°28 | 22°50 | 18° 6 | 26°52 | 7°36 | 29°10 | 9° 7 | 10° 6 | 27°31 | n.a. | M20 |
| T 21 | 9 51 34 | 29°52'52 | 16°39 | 14°59 | 11°53 | 27°12 | 23° 1 | 18°12 | 26°55 | 7°38 | 29°11 | 8°54 | 10° 3 | 27°37 | n.a. | T 21 |
| W22 | 9 55 31 | 0♓52'15 | 28°46 | 14°R59 | 13° 7 | 27°55 | 23°12 | 18°18 | 26°58 | 7°39 | 29°12 | 8°41 | 9°59 | 27°44 | n.a. | W22 |
| T 23 | 9 59 27 | 1°51'36 | 10♍47 | 14°51 | 14°21 | 28°39 | 23°23 | 18°23 | 27° 1 | 7°41 | 29°12 | 8°29 | 9°56 | 27°51 | n.a. | T 23 |
| F 24 | 10 3 24 | 2°50'54 | 22°41 | 14°36 | 15°35 | 29°22 | 23°34 | 18°29 | 27° 4 | 7°43 | 29°13 | 8°19 | 9°53 | 27°57 | n.a. | F 24 |
| S 25 | 10 7 20 | 3°50'11 | 4♎31 | 14°14 | 16°49 | 0♈ 6 | 23°46 | 18°35 | 27° 7 | 7°45 | 29°14 | 8°11 | 9°50 | 28° 4 | n.a. | S 25 |
| S 26 | 10 11 17 | 4°49'26 | 16°19 | 13°46 | 18° 3 | 0°49 | 23°57 | 18°41 | 27°10 | 7°47 | 29°15 | 8° 6 | 9°47 | 28°11 | n.a. | S 26 |
| M27 | 10 15 14 | 5°48'38 | 28° 9 | 13°12 | 19°17 | 1°32 | 24° 8 | 18°46 | 27°13 | 7°49 | 29°16 | 8° 4 | 9°44 | 28°17 | n.a. | M27 |
| T 28 | 10 19 10 | 6♓47'49 | 10♏ 4 | 12♓33 | 20♒32 | 2♈16 | 24♈20 | 18♑52 | 27♑16 | 7♈51 | 29♈17 | 8°D 3 | 9♉40 | 28♍24 | n.a. | T 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| W 1 | 17s57 | 16s22 | 0s15 | 15s21 | 0s48 | 23s 4 | 0s29 | 7s30 | 0s37 | 6n51 | 1s 1 | 23s 5 | 0s21 | 21s47 | 0s35 | 1n 6 | 1s54 | 1s34 | 13s41 | 15n17 | 15n20 | 5n14 | | n.a. | W 1 |
| T 2 | 17 41 | 20 46 | 1 19 | 14 34 | 0 38 | 22 57 | 0 31 | 7 13 | 0 36 | 6 55 | 1 1 | 23 4 | 0 21 | 21 46 | 0 35 | 1 7 | 1 54 | 1 33 | 13 41 | 15 16 | 15 19 | 5 10 | | n.a. | T 2 |
| F 3 | 17 24 | 24 20 | 2 21 | 13 48 | 0 27 | 22 48 | 0 34 | 6 55 | 0 35 | 6 59 | 1 1 | 23 3 | 0 21 | 21 46 | 0 35 | 1 7 | 1 54 | 1 33 | 13 40 | 15 16 | 15 18 | 5 7 | | n.a. | F 3 |
| S 4 | 17 7 | 26 46 | 3 18 | 13 0 | 0 16 | 22 40 | 0 36 | 6 37 | 0 34 | 7 2 | 1 0 | 23 2 | 0 21 | 21 45 | 0 35 | 1 8 | 1 54 | 1 32 | 13 40 | 15 15 | 15 17 | 5 4 | | n.a. | S 4 |
| S 5 | 16 49 | 27 41 | 4 6 | 12 12 | 0 4 | 22 30 | 0 38 | 6 19 | 0 34 | 7 6 | 1 0 | 23 2 | 0 21 | 21 45 | 0 35 | 1 8 | 1 54 | 1 32 | 13 40 | 15 12 | 15 16 | 5 1 | | n.a. | S 5 |
| M 6 | 16 32 | 26 53 | 4 41 | 11 24 | 0n 8 | 22 20 | 0 41 | 6 1 | 0 33 | 7 10 | 1 0 | 23 1 | 0 21 | 21 44 | 0 35 | 1 9 | 1 54 | 1 31 | 13 39 | 15 9 | 15 15 | 4 57 | | n.a. | M 6 |
| T 7 | 16 14 | 24 16 | 4 59 | 10 36 | 0 21 | 22 9 | 0 43 | 5 43 | 0 32 | 7 14 | 1 0 | 23 0 | 0 21 | 21 43 | 0 35 | 1 10 | 1 54 | 1 31 | 13 39 | 15 6 | 15 14 | 4 54 | | n.a. | T 7 |
| W 8 | 15 56 | 20 0 | 4 57 | 9 49 | 0 34 | 21 57 | 0 45 | 5 24 | 0 32 | 7 17 | 0 59 | 22 59 | 0 21 | 21 43 | 0 35 | 1 10 | 1 54 | 1 31 | 13 39 | 15 2 | 15 13 | 4 51 | | n.a. | W 8 |
| T 9 | 15 37 | 14 25 | 4 35 | 9 3 | 0 48 | 21 45 | 0 47 | 5 6 | 0 31 | 7 21 | 0 59 | 22 59 | 0 22 | 21 42 | 0 35 | 1 11 | 1 54 | 1 30 | 13 39 | 14 58 | 15 12 | 4 48 | | n.a. | T 9 |
| F 10 | 15 19 | 7 59 | 3 54 | 8 18 | 1 2 | 21 32 | 0 49 | 4 48 | 0 30 | 7 25 | 0 59 | 22 58 | 0 22 | 21 42 | 0 35 | 1 12 | 1 53 | 1 30 | 13 38 | 14 56 | 15 11 | 4 44 | | n.a. | F 10 |
| S 11 | 15 0 | 1 9 | 2 57 | 7 34 | 1 16 | 21 19 | 0 51 | 4 30 | 0 30 | 7 29 | 0 59 | 22 57 | 0 22 | 21 41 | 0 35 | 1 12 | 1 53 | 1 29 | 13 38 | 14 53 | 15 10 | 4 41 | | n.a. | S 11 |
| S 12 | 14 41 | 5n38 | 1 50 | 6 53 | 1 29 | 21 5 | 0 53 | 4 12 | 0 29 | 7 33 | 0 58 | 22 56 | 0 22 | 21 40 | 0 35 | 1 13 | 1 53 | 1 29 | 13 38 | 14 52 | 15 9 | 4 38 | | n.a. | S 12 |
| M13 | 14 21 | 12 0 | 0 36 | 6 14 | 1 43 | 20 50 | 0 55 | 3 54 | 0 28 | 7 37 | 0 58 | 22 56 | 0 22 | 21 40 | 0 35 | 1 14 | 1 53 | 1 28 | 13 37 | 14 52 | 15 8 | 4 35 | | n.a. | M13 |
| T 14 | 14 2 | 17 37 | 0n37 | 5 37 | 1 57 | 20 35 | 0 57 | 3 36 | 0 27 | 7 41 | 0 58 | 22 55 | 0 22 | 21 39 | 0 35 | 1 15 | 1 53 | 1 28 | 13 37 | 14 52 | 15 7 | 4 31 | | n.a. | T 14 |
| W15 | 13 42 | 22 11 | 1 47 | 5 4 | 2 10 | 20 19 | 0 59 | 3 17 | 0 27 | 7 45 | 0 58 | 22 54 | 0 22 | 21 38 | 0 35 | 1 15 | 1 53 | 1 27 | 13 37 | 14 52 | 15 6 | 4 28 | | n.a. | W15 |
| T 16 | 13 22 | 25 29 | 2 49 | 4 33 | 2 23 | 20 2 | 1 1 | 2 59 | 0 26 | 7 49 | 0 57 | 22 53 | 0 22 | 21 38 | 0 35 | 1 16 | 1 53 | 1 27 | 13 36 | 14 51 | 15 5 | 4 25 | | n.a. | T 16 |
| F 17 | 13 1 | 27 21 | 3 42 | 4 7 | 2 36 | 19 45 | 1 3 | 2 41 | 0 25 | 7 54 | 0 57 | 22 53 | 0 22 | 21 37 | 0 35 | 1 17 | 1 53 | 1 26 | 13 36 | 14 50 | 15 4 | 4 21 | | n.a. | F 17 |
| S 18 | 12 41 | 27 43 | 4 21 | 3 43 | 2 47 | 19 28 | 1 4 | 2 23 | 0 25 | 7 58 | 0 57 | 22 52 | 0 22 | 21 37 | 0 35 | 1 18 | 1 53 | 1 26 | 13 36 | 14 48 | 15 3 | 4 18 | | n.a. | S 18 |
| S 19 | 12 20 | 26 38 | 4 48 | 3 24 | 2 58 | 19 9 | 1 6 | 2 5 | 0 24 | 8 2 | 0 57 | 22 51 | 0 22 | 21 36 | 0 35 | 1 18 | 1 53 | 1 25 | 13 36 | 14 45 | 15 2 | 4 15 | | n.a. | S 19 |
| M20 | 11 59 | 24 14 | 5 0 | 3 9 | 3 8 | 18 51 | 1 8 | 1 47 | 0 23 | 8 6 | 0 57 | 22 51 | 0 23 | 21 36 | 0 35 | 1 19 | 1 53 | 1 25 | 13 35 | 14 42 | 15 1 | 4 12 | | n.a. | M20 |
| T 21 | 11 38 | 20 46 | 4 59 | 2 58 | 3 16 | 18 31 | 1 9 | 1 28 | 0 23 | 8 10 | 0 56 | 22 50 | 0 23 | 21 35 | 0 35 | 1 20 | 1 53 | 1 24 | 13 35 | 14 38 | 15 0 | 4 8 | | n.a. | T 21 |
| W22 | 11 17 | 16 27 | 4 43 | 2 51 | 3 24 | 18 12 | 1 11 | 1 10 | 0 22 | 8 15 | 0 56 | 22 49 | 0 23 | 21 34 | 0 35 | 1 21 | 1 53 | 1 24 | 13 35 | 14 33 | 14 59 | 4 5 | | n.a. | W22 |
| T 23 | 10 56 | 11 32 | 4 16 | 2 48 | 3 30 | 17 51 | 1 12 | 0 52 | 0 21 | 8 19 | 0 56 | 22 48 | 0 23 | 21 34 | 0 35 | 1 21 | 1 53 | 1 23 | 13 35 | 14 30 | 14 58 | 4 2 | | n.a. | T 23 |
| F 24 | 10 34 | 6 15 | 3 37 | 2 50 | 3 34 | 17 31 | 1 13 | 0 34 | 0 20 | 8 23 | 0 56 | 22 48 | 0 23 | 21 33 | 0 35 | 1 22 | 1 53 | 1 23 | 13 34 | 14 26 | 14 57 | 3 58 | | n.a. | F 24 |
| S 25 | 10 13 | 0 46 | 2 49 | 2 56 | 3 37 | 17 9 | 1 15 | 0 16 | 0 20 | 8 28 | 0 56 | 22 47 | 0 23 | 21 33 | 0 35 | 1 23 | 1 53 | 1 22 | 13 34 | 14 24 | 14 56 | 3 55 | | n.a. | S 25 |
| S 26 | 9 51 | 4s45 | 1 53 | 3 6 | 3 38 | 16 48 | 1 16 | 0n 2 | 0 19 | 8 32 | 0 55 | 22 46 | 0 23 | 21 32 | 0 35 | 1 24 | 1 53 | 1 22 | 13 34 | 14 22 | 14 54 | 3 52 | | n.a. | S 26 |
| M27 | 9 29 | 10 7 | 0 53 | 3 19 | 3 38 | 16 25 | 1 17 | 0 20 | 0 18 | 8 37 | 0 55 | 22 46 | 0 23 | 21 32 | 0 35 | 1 25 | 1 53 | 1 21 | 13 33 | 14 21 | 14 53 | 3 49 | | n.a. | M27 |
| T 28 | 9s 7 | 15s10 | 0s11 | 3s37 | 3n36 | 16s 3 | 1s18 | 0n38 | 0s18 | 8n41 | 0s55 | 22s45 | 0s23 | 21s31 | 0s35 | 1n26 | 1s53 | 1s21 | 13s33 | 14n21 | 14n52 | 3n45 | | n.a. | T 28 |

Julian Day Number = 1684929.5, Delta T = 03h13m31s
Ecliptic obliquity = 23°42'33, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°26'41, Lahiri = - 5°19'40 Julian Calendar 1 Feb. 100 BCE == Greg. Calendar 30 Jan. 100 BCE

The year -99 astronomical counting style corresponds to year 100 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 100 BCE
# geocentric

## MARCH 100 BCE (-99) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 10 23 7 | 7♓46'58 | 22♏ 8 | 11°R50 | 21♒46 | 2♈59 | 24♈32 | 18♑58 | 27♑19 | 7♈53 | 29♈17 | 8♉ 4 | 9♉37 | 28♍31 | n.a. | W 1 |
| T 2 | 10 27 3 | 8°46'05 | 4♐28 | 11♓ 4 | 23° 0 | 3°42 | 24°43 | 19° 3 | 27°22 | 7°55 | 29°18 | 8°R 5 | 9°34 | 28°37 | n.a. | T 2 |
| F 3 | 10 31 0 | 9°45'10 | 17° 7 | 10°16 | 24°14 | 4°25 | 24°55 | 19° 9 | 27°24 | 7°57 | 29°19 | 8° 5 | 9°31 | 28°44 | n.a. | F 3 |
| S 4 | 10 34 56 | 10°44'14 | 0♑11 | 9°27 | 25°28 | 5° 8 | 25° 7 | 19°14 | 27°27 | 7°59 | 29°20 | 8° 3 | 9°28 | 28°51 | n.a. | S 4 |
| S 5 | 10 38 53 | 11°43'15 | 13°43 | 8°38 | 26°42 | 5°52 | 25°19 | 19°19 | 27°30 | 8° 1 | 29°21 | 7°59 | 9°24 | 28°57 | n.a. | S 5 |
| M 6 | 10 42 49 | 12°42'15 | 27°45 | 7°49 | 27°56 | 6°35 | 25°31 | 19°25 | 27°33 | 8° 3 | 29°22 | 7°53 | 9°21 | 29° 4 | n.a. | M 6 |
| T 7 | 10 46 46 | 13°41'13 | 12♒15 | 7° 2 | 29°10 | 7°18 | 25°43 | 19°30 | 27°35 | 8° 5 | 29°23 | 7°45 | 9°18 | 29°11 | n.a. | T 7 |
| W 8 | 10 50 43 | 14°40'09 | 27° 8 | 6°18 | 0♓24 | 8° 1 | 25°55 | 19°35 | 27°38 | 8° 7 | 29°24 | 7°37 | 9°15 | 29°17 | n.a. | W 8 |
| T 9 | 10 54 39 | 15°39'02 | 12♓18 | 5°37 | 1°38 | 8°43 | 26° 7 | 19°40 | 27°40 | 8°10 | 29°25 | 7°29 | 9°12 | 29°24 | n.a. | T 9 |
| F 10 | 10 58 36 | 16°37'54 | 27°32 | 4°59 | 2°52 | 9°26 | 26°20 | 19°45 | 27°43 | 8°12 | 29°26 | 7°22 | 9° 9 | 29°31 | n.a. | F 10 |
| S 11 | 11 2 32 | 17°36'43 | 12♈42 | 4°26 | 4° 6 | 10° 9 | 26°32 | 19°50 | 27°46 | 8°14 | 29°27 | 7°18 | 9° 5 | 29°37 | n.a. | S 11 |
| S 12 | 11 6 29 | 18°35'31 | 27°37 | 3°58 | 5°20 | 10°52 | 26°44 | 19°55 | 27°48 | 8°16 | 29°28 | 7°16 | 9° 2 | 29°44 | n.a. | S 12 |
| M13 | 11 10 25 | 19°34'16 | 12♉11 | 3°35 | 6°34 | 11°35 | 26°57 | 20° 0 | 27°51 | 8°18 | 29°29 | 7°D15 | 8°59 | 29°51 | n.a. | M13 |
| T 14 | 11 14 22 | 20°32'58 | 26°20 | 3°16 | 7°48 | 12°17 | 27° 9 | 20° 4 | 27°53 | 8°20 | 29°30 | 7°16 | 8°56 | 29°58 | n.a. | T 14 |
| W15 | 11 18 18 | 21°31'39 | 10♊ 4 | 3° 3 | 9° 2 | 13° 0 | 27°22 | 20° 9 | 27°55 | 8°22 | 29°31 | 7°17 | 8°53 | 0♎ 4 | n.a. | W15 |
| T 16 | 11 22 15 | 22°30'17 | 23°24 | 2°56 | 10°16 | 13°42 | 27°35 | 20°13 | 27°58 | 8°25 | 29°33 | 7°R18 | 8°50 | 0°11 | n.a. | T 16 |
| F 17 | 11 26 11 | 23°28'53 | 6♋22 | 2°D53 | 11°30 | 14°25 | 27°47 | 20°18 | 28° 0 | 8°27 | 29°34 | 7°17 | 8°46 | 0°18 | n.a. | F 17 |
| S 18 | 11 30 8 | 24°27'26 | 19° 3 | 2°56 | 12°44 | 15° 7 | 28° 0 | 20°22 | 28° 2 | 8°29 | 29°35 | 7°14 | 8°43 | 0°24 | n.a. | S 18 |
| S 19 | 11 34 5 | 25°25'58 | 1♌28 | 3° 4 | 13°58 | 15°50 | 28°13 | 20°27 | 28° 5 | 8°31 | 29°36 | 7°10 | 8°40 | 0°31 | n.a. | S 19 |
| M20 | 11 38 1 | 26°24'26 | 13°42 | 3°17 | 15°12 | 16°32 | 28°26 | 20°31 | 28° 7 | 8°33 | 29°37 | 7° 3 | 8°37 | 0°38 | n.a. | M20 |
| T 21 | 11 41 58 | 27°22'53 | 25°47 | 3°34 | 16°26 | 17°15 | 28°39 | 20°35 | 28° 9 | 8°36 | 29°38 | 6°56 | 8°34 | 0°44 | n.a. | T 21 |
| W22 | 11 45 54 | 28°21'18 | 7♍45 | 3°57 | 17°39 | 17°57 | 28°52 | 20°39 | 28°11 | 8°38 | 29°39 | 6°49 | 8°30 | 0°51 | n.a. | W22 |
| T 23 | 11 49 51 | 29°19'40 | 19°38 | 4°23 | 18°53 | 18°39 | 29° 5 | 20°43 | 28°13 | 8°40 | 29°41 | 6°42 | 8°27 | 0°58 | n.a. | T 23 |
| F 24 | 11 53 47 | 0♈18'01 | 1♎28 | 4°54 | 20° 7 | 19°21 | 29°18 | 20°47 | 28°15 | 8°42 | 29°42 | 6°37 | 8°24 | 1° 4 | n.a. | F 24 |
| S 25 | 11 57 44 | 1°16'19 | 13°17 | 5°29 | 21°21 | 20° 3 | 29°31 | 20°51 | 28°17 | 8°45 | 29°43 | 6°33 | 8°21 | 1°11 | n.a. | S 25 |
| S 26 | 12 1 40 | 2°14'36 | 25° 7 | 6° 8 | 22°35 | 20°45 | 29°44 | 20°55 | 28°19 | 8°47 | 29°44 | 6°30 | 8°18 | 1°18 | n.a. | S 26 |
| M27 | 12 5 37 | 3°12'51 | 7♏ 1 | 6°51 | 23°49 | 21°28 | 29°57 | 20°59 | 28°21 | 8°49 | 29°46 | 6°D30 | 8°15 | 1°24 | n.a. | M27 |
| T 28 | 12 9 34 | 4°11'04 | 19° 1 | 7°37 | 25° 3 | 22°10 | 0♉11 | 21° 2 | 28°23 | 8°51 | 29°47 | 6°30 | 8°11 | 1°31 | n.a. | T 28 |
| W29 | 12 13 30 | 5° 9'16 | 1♐10 | 8°27 | 26°17 | 22°51 | 0°24 | 21° 6 | 28°25 | 8°54 | 29°48 | 6°32 | 8° 8 | 1°38 | n.a. | W29 |
| T 30 | 12 17 27 | 6° 7'26 | 13°33 | 9°20 | 27°30 | 23°33 | 0°37 | 21° 9 | 28°27 | 8°56 | 29°49 | 6°33 | 8° 5 | 1°44 | n.a. | T 30 |
| F 31 | 12 21 23 | 7♈ 5'35 | 26♐13 | 10♓16 | 28♓44 | 24♈15 | 0♉51 | 21♑13 | 28♑28 | 8♈58 | 29♈51 | 6♉35 | 8♉ 2 | 1♎51 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| W 1 | 8s45 | 19s43 | 1s15 | 3s57 | 3n31 | 15s40 | 1s19 | 0n56 | 0s17 | 8n46 | 0s55 | 22s44 | 0s23 | 21s30 | 0s35 | 1n26 | 1s53 | 1s20 | 13s33 | 14n21 | 14n51 | 3n42 | | | n.a. |
| T 2 | 8 22 | 23 30 | 2 16 | 4 20 | 3 26 | 15 16 | 1 20 | 1 14 | 0 16 | 8 50 | 0 55 | 22 44 | 0 24 | 21 30 | 0 35 | 1 27 | 1 53 | 1 19 | 13 33 | 14 22 | 14 50 | 3 39 | | | n.a. |
| F 3 | 8 0 | 26 17 | 3 13 | 4 45 | 3 18 | 14 52 | 1 21 | 1 32 | 0 16 | 8 55 | 0 54 | 22 43 | 0 24 | 21 29 | 0 35 | 1 28 | 1 53 | 1 19 | 13 32 | 14 21 | 14 49 | 3 35 | | | n.a. |
| S 4 | 7 37 | 27 45 | 4 2 | 5 12 | 3 9 | 14 28 | 1 22 | 1 50 | 0 15 | 8 59 | 0 54 | 22 42 | 0 24 | 21 29 | 0 35 | 1 29 | 1 53 | 1 18 | 13 32 | 14 21 | 14 48 | 3 32 | | | n.a. |
| S 5 | 7 15 | 27 37 | 4 39 | 5 40 | 2 58 | 14 3 | 1 23 | 2 8 | 0 14 | 9 4 | 0 54 | 22 42 | 0 24 | 21 28 | 0 35 | 1 30 | 1 53 | 1 18 | 13 32 | 14 20 | 14 47 | 3 29 | | | n.a. |
| M 6 | 6 52 | 25 46 | 5 1 | 6 10 | 2 47 | 13 38 | 1 24 | 2 26 | 0 14 | 9 8 | 0 54 | 22 41 | 0 24 | 21 28 | 0 35 | 1 31 | 1 53 | 1 17 | 13 32 | 14 18 | 14 46 | 3 26 | | | n.a. |
| T 7 | 6 29 | 22 11 | 5 5 | 6 39 | 2 34 | 13 13 | 1 24 | 2 44 | 0 13 | 9 13 | 0 54 | 22 40 | 0 24 | 21 27 | 0 35 | 1 31 | 1 53 | 1 17 | 13 32 | 14 15 | 14 45 | 3 22 | | | n.a. |
| W 8 | 6 6 | 17 6 | 4 49 | 7 9 | 2 20 | 12 47 | 1 25 | 3 1 | 0 12 | 9 18 | 0 54 | 22 40 | 0 24 | 21 27 | 0 35 | 1 32 | 1 53 | 1 16 | 13 31 | 14 12 | 14 44 | 3 19 | | | n.a. |
| T 9 | 5 43 | 10 54 | 4 12 | 7 37 | 2 5 | 12 21 | 1 25 | 3 19 | 0 12 | 9 22 | 0 53 | 22 39 | 0 24 | 21 26 | 0 35 | 1 33 | 1 53 | 1 16 | 13 31 | 14 10 | 14 43 | 3 16 | | | n.a. |
| F 10 | 5 20 | 4 0 | 3 17 | 8 5 | 1 50 | 11 54 | 1 26 | 3 37 | 0 11 | 9 27 | 0 53 | 22 38 | 0 24 | 21 26 | 0 35 | 1 34 | 1 52 | 1 15 | 13 31 | 14 8 | 14 42 | 3 12 | | | n.a. |
| S 11 | 4 57 | 3n 6 | 2 8 | 8 32 | 1 34 | 11 27 | 1 26 | 3 54 | 0 10 | 9 32 | 0 53 | 22 38 | 0 25 | 21 25 | 0 35 | 1 35 | 1 52 | 1 14 | 13 31 | 14 6 | 14 41 | 3 9 | | | n.a. |
| S 12 | 4 34 | 9 56 | 0 52 | 8 57 | 1 18 | 11 0 | 1 27 | 4 12 | 0 10 | 9 36 | 0 53 | 22 37 | 0 25 | 21 25 | 0 35 | 1 36 | 1 52 | 1 14 | 13 30 | 14 5 | 14 40 | 3 6 | | | n.a. |
| M13 | 4 10 | 16 5 | 0n27 | 9 20 | 1 2 | 10 33 | 1 27 | 4 29 | 0 9 | 9 41 | 0 53 | 22 37 | 0 25 | 21 24 | 0 36 | 1 37 | 1 52 | 1 13 | 13 30 | 14 5 | 14 39 | 3 2 | | | n.a. |
| T 14 | 3 47 | 21 11 | 1 41 | 9 42 | 0 47 | 10 5 | 1 27 | 4 47 | 0 8 | 9 46 | 0 52 | 22 36 | 0 25 | 21 24 | 0 36 | 1 37 | 1 52 | 1 13 | 13 30 | 14 6 | 14 38 | 2 59 | | | n.a. |
| W15 | 3 24 | 24 59 | 2 48 | 10 1 | 0 31 | 9 37 | 1 27 | 5 4 | 0 8 | 9 50 | 0 52 | 22 35 | 0 25 | 21 24 | 0 36 | 1 38 | 1 52 | 1 12 | 13 30 | 14 6 | 14 37 | 2 56 | | | n.a. |
| T 16 | 3 0 | 27 16 | 3 43 | 10 18 | 0 16 | 9 9 | 1 27 | 5 22 | 0 7 | 9 55 | 0 52 | 22 35 | 0 25 | 21 23 | 0 36 | 1 39 | 1 52 | 1 12 | 13 30 | 14 6 | 14 36 | 2 52 | | | n.a. |
| F 17 | 2 37 | 27 59 | 4 26 | 10 33 | 0 1 | 8 41 | 1 28 | 5 39 | 0 6 | 10 0 | 0 52 | 22 34 | 0 25 | 21 23 | 0 36 | 1 40 | 1 52 | 1 11 | 13 29 | 14 6 | 14 35 | 2 49 | | | n.a. |
| S 18 | 2 14 | 27 11 | 4 54 | 10 45 | 0s14 | 8 12 | 1 27 | 5 56 | 0 6 | 10 5 | 0 52 | 22 34 | 0 25 | 21 22 | 0 36 | 1 41 | 1 52 | 1 11 | 13 29 | 14 5 | 14 34 | 2 46 | | | n.a. |
| S 19 | 1 50 | 25 3 | 5 8 | 10 55 | 0 28 | 7 43 | 1 27 | 6 13 | 0 5 | 10 9 | 0 52 | 22 33 | 0 25 | 21 22 | 0 36 | 1 42 | 1 52 | 1 10 | 13 29 | 14 3 | 14 33 | 2 42 | | | n.a. |
| M20 | 1 27 | 21 48 | 5 7 | 11 3 | 0 41 | 7 14 | 1 27 | 6 30 | 0 4 | 10 14 | 0 52 | 22 33 | 0 26 | 21 21 | 0 36 | 1 43 | 1 52 | 1 9 | 13 29 | 14 1 | 14 32 | 2 39 | | | n.a. |
| T 21 | 1 3 | 17 39 | 4 53 | 11 8 | 0 54 | 6 45 | 1 27 | 6 47 | 0 4 | 10 19 | 0 51 | 22 32 | 0 26 | 21 21 | 0 36 | 1 44 | 1 52 | 1 9 | 13 29 | 13 59 | 14 31 | 2 36 | | | n.a. |
| W22 | 0 40 | 12 52 | 4 26 | 11 11 | 1 6 | 6 16 | 1 27 | 7 4 | 0 3 | 10 24 | 0 51 | 22 32 | 0 26 | 21 21 | 0 36 | 1 45 | 1 52 | 1 8 | 13 28 | 13 57 | 14 30 | 2 33 | | | n.a. |
| T 23 | 0 16 | 7 38 | 3 47 | 11 12 | 1 17 | 5 46 | 1 26 | 7 21 | 0 2 | 10 29 | 0 51 | 22 31 | 0 26 | 21 20 | 0 36 | 1 45 | 1 52 | 1 8 | 13 28 | 13 54 | 14 29 | 2 29 | | | n.a. |
| F 24 | 0n 7 | 2 9 | 2 59 | 11 11 | 1 28 | 5 16 | 1 26 | 7 38 | 0 2 | 10 33 | 0 51 | 22 31 | 0 26 | 21 20 | 0 36 | 1 46 | 1 52 | 1 7 | 13 28 | 13 52 | 14 28 | 2 26 | | | n.a. |
| S 25 | 0 31 | 3s25 | 2 3 | 11 7 | 1 38 | 4 46 | 1 25 | 7 54 | 0 1 | 10 38 | 0 51 | 22 30 | 0 26 | 21 19 | 0 36 | 1 47 | 1 52 | 1 7 | 13 28 | 13 51 | 14 27 | 2 23 | | | n.a. |
| S 26 | 0 54 | 8 52 | 1 2 | 11 1 | 1 47 | 4 16 | 1 25 | 8 11 | 0 1 | 10 43 | 0 51 | 22 30 | 0 26 | 21 19 | 0 36 | 1 48 | 1 52 | 1 6 | 13 28 | 13 50 | 14 26 | 2 19 | | | n.a. |
| M27 | 1 18 | 14 3 | 0s 3 | 10 53 | 1 56 | 3 46 | 1 24 | 8 28 | 0n 0 | 10 48 | 0 50 | 22 29 | 0 26 | 21 19 | 0 36 | 1 49 | 1 52 | 1 5 | 13 28 | 13 50 | 14 25 | 2 16 | | | n.a. |
| T 28 | 1 41 | 18 45 | 1 8 | 10 43 | 2 4 | 3 16 | 1 24 | 8 44 | 0 1 | 10 53 | 0 50 | 22 29 | 0 27 | 21 18 | 0 36 | 1 50 | 1 52 | 1 5 | 13 27 | 13 50 | 14 24 | 2 13 | | | n.a. |
| W29 | 2 4 | 22 46 | 2 11 | 10 31 | 2 11 | 2 46 | 1 23 | 9 0 | 0 1 | 10 57 | 0 50 | 22 28 | 0 27 | 21 18 | 0 36 | 1 51 | 1 52 | 1 4 | 13 27 | 13 51 | 14 23 | 2 9 | | | n.a. |
| T 30 | 2 28 | 25 49 | 3 9 | 10 17 | 2 18 | 2 15 | 1 22 | 9 17 | 0 2 | 11 2 | 0 50 | 22 28 | 0 27 | 21 18 | 0 36 | 1 52 | 1 52 | 1 4 | 13 27 | 13 51 | 14 22 | 2 6 | | | n.a. |
| F 31 | 2n51 | 27s39 | 4s 0 | 10s 1 | 2s24 | 1s45 | 1s21 | 9n33 | 0n 3 | 11n 7 | 0s50 | 22s27 | 0s27 | 21s17 | 0s36 | 1n53 | 1s52 | 1s 3 | 13s27 | 13n52 | 14n21 | 2n 3 | | | n.a. |

Julian Day Number = 1684957.5, Delta T = 03h13m30s
Ecliptic obliquity = 23°42'33, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°26'37, Lahiri = - 5°19'37 Julian Calendar 1 March 100 BCE == Greg. Calendar 27 Feb. 100 BCE

The year -99 astronomical counting style corresponds to year 100 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 100 BCE
# geocentric

## APRIL 100 BCE (-99) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 25 20 | 8♈ 3'42 | 9♑14 | 11♓15 | 29♓58 | 24♈57 | 1♉ 4 | 21♑16 | 28♑30 | 9♈ 0 | 29♈52 | 6°R35 | 7♉59 | 1♎58 | n.a. | S 1 |
| S 2 | 12 29 16 | 9° 1'47 | 22°40 | 12°17 | 1♈12 | 25°39 | 1°17 | 21°19 | 28°32 | 9° 3 | 29°53 | 6♉34 | 7°56 | 2° 4 | n.a. | S 2 |
| M 3 | 12 33 13 | 9°59'51 | 6♒33 | 13°22 | 2°26 | 26°21 | 1°31 | 21°22 | 28°33 | 9° 5 | 29°54 | 6°33 | 7°52 | 2°11 | n.a. | M 3 |
| T 4 | 12 37 9 | 10°57'54 | 20°52 | 14°30 | 3°40 | 27° 2 | 1°44 | 21°25 | 28°35 | 9° 7 | 29°56 | 6°30 | 7°49 | 2°18 | n.a. | T 4 |
| W 5 | 12 41 6 | 11°55'55 | 5♓35 | 15°40 | 4°53 | 27°44 | 1°58 | 21°28 | 28°37 | 9° 9 | 29°57 | 6°26 | 7°46 | 2°24 | n.a. | W 5 |
| T 6 | 12 45 3 | 12°53'54 | 20°36 | 16°53 | 6° 7 | 28°26 | 2°12 | 21°31 | 28°38 | 9°12 | 29°58 | 6°23 | 7°43 | 2°31 | n.a. | T 6 |
| F 7 | 12 48 59 | 13°51'52 | 5♈47 | 18° 8 | 7°21 | 29° 7 | 2°25 | 21°34 | 28°40 | 9°14 | 29°59 | 6°21 | 7°40 | 2°38 | n.a. | F 7 |
| S 8 | 12 52 56 | 14°49'48 | 20°58 | 19°26 | 8°35 | 29°49 | 2°39 | 21°37 | 28°41 | 9°16 | 0♉ 1 | 6°19 | 7°36 | 2°44 | n.a. | S 8 |
| S 9 | 12 56 52 | 15°47'43 | 6♉ 0 | 20°46 | 9°49 | 0♉30 | 2°52 | 21°39 | 28°42 | 9°18 | 0° 2 | 6°D18 | 7°33 | 2°51 | n.a. | S 9 |
| M10 | 13 0 49 | 16°45'36 | 20°44 | 22° 8 | 11° 2 | 1°12 | 3° 6 | 21°42 | 28°44 | 9°21 | 0° 4 | 6°19 | 7°30 | 2°58 | n.a. | M10 |
| T 11 | 13 4 45 | 17°43'27 | 5♊ 5 | 23°32 | 12°16 | 1°53 | 3°20 | 21°44 | 28°45 | 9°23 | 0° 5 | 6°20 | 7°27 | 3° 4 | n.a. | T 11 |
| W12 | 13 8 42 | 18°41'17 | 19° 0 | 24°59 | 13°30 | 2°34 | 3°34 | 21°47 | 28°46 | 9°25 | 0° 6 | 6°21 | 7°24 | 3°11 | n.a. | W12 |
| T 13 | 13 12 38 | 19°39'04 | 2♋28 | 26°28 | 14°44 | 3°16 | 3°47 | 21°49 | 28°47 | 9°27 | 0° 8 | 6°22 | 7°21 | 3°18 | n.a. | T 13 |
| F 14 | 13 16 35 | 20°36'50 | 15°31 | 27°59 | 15°58 | 3°57 | 4° 1 | 21°51 | 28°48 | 9°30 | 0° 9 | 6°R23 | 7°17 | 3°24 | n.a. | F 14 |
| S 15 | 13 20 31 | 21°34'34 | 28°13 | 29°32 | 17°11 | 4°38 | 4°15 | 21°53 | 28°49 | 9°32 | 0°10 | 6°23 | 7°14 | 3°31 | n.a. | S 15 |
| S 16 | 13 24 28 | 22°32'17 | 10♌36 | 1♈ 7 | 18°25 | 5°19 | 4°29 | 21°55 | 28°51 | 9°34 | 0°12 | 6°22 | 7°11 | 3°38 | n.a. | S 16 |
| M17 | 13 28 25 | 23°29'57 | 22°46 | 2°45 | 19°39 | 6° 1 | 4°43 | 21°57 | 28°52 | 9°36 | 0°13 | 6°21 | 7° 8 | 3°44 | n.a. | M17 |
| T 18 | 13 32 21 | 24°27'36 | 4♍45 | 4°24 | 20°52 | 6°42 | 4°56 | 21°59 | 28°52 | 9°38 | 0°14 | 6°19 | 7° 5 | 3°51 | n.a. | T 18 |
| W19 | 13 36 18 | 25°25'13 | 16°38 | 6° 6 | 22° 6 | 7°23 | 5°10 | 22° 0 | 28°53 | 9°41 | 0°16 | 6°18 | 7° 1 | 3°58 | n.a. | W19 |
| T 20 | 13 40 14 | 26°22'49 | 28°27 | 7°50 | 23°20 | 8° 4 | 5°24 | 22° 2 | 28°54 | 9°43 | 0°17 | 6°16 | 6°58 | 4° 4 | n.a. | T 20 |
| F 21 | 13 44 11 | 27°20'23 | 10♎16 | 9°35 | 24°34 | 8°45 | 5°38 | 22° 3 | 28°55 | 9°45 | 0°18 | 6°15 | 6°55 | 4°11 | n.a. | F 21 |
| S 22 | 13 48 7 | 28°17'56 | 22° 7 | 11°24 | 25°47 | 9°26 | 5°52 | 22° 5 | 28°56 | 9°47 | 0°20 | 6°14 | 6°52 | 4°18 | n.a. | S 22 |
| S 23 | 13 52 4 | 29°15'27 | 4♏ 3 | 13°14 | 27° 1 | 10° 6 | 6° 6 | 22° 6 | 28°56 | 9°49 | 0°21 | 6°D14 | 6°49 | 4°24 | n.a. | S 23 |
| M24 | 13 56 0 | 0♉12'58 | 16° 5 | 15° 6 | 28°15 | 10°47 | 6°20 | 22° 7 | 28°57 | 9°51 | 0°22 | 6°14 | 6°46 | 4°31 | n.a. | M24 |
| T 25 | 13 59 57 | 1°10'27 | 28°15 | 17° 0 | 29°28 | 11°28 | 6°34 | 22° 8 | 28°58 | 9°54 | 0°24 | 6°15 | 6°42 | 4°38 | n.a. | T 25 |
| W26 | 14 3 54 | 2° 7'55 | 10♐36 | 18°57 | 0♉42 | 12° 9 | 6°48 | 22° 9 | 28°58 | 9°56 | 0°25 | 6°15 | 6°39 | 4°44 | n.a. | W26 |
| T 27 | 14 7 50 | 3° 5'22 | 23° 9 | 20°55 | 1°56 | 12°50 | 7° 1 | 22°10 | 28°59 | 9°58 | 0°26 | 6°15 | 6°36 | 4°51 | n.a. | T 27 |
| F 28 | 14 11 47 | 4° 2'49 | 5♑58 | 22°55 | 3°10 | 13°30 | 7°15 | 22°11 | 28°59 | 10° 0 | 0°28 | 6°16 | 6°33 | 4°58 | n.a. | F 28 |
| S 29 | 14 15 43 | 5° 0'14 | 19° 4 | 24°57 | 4°23 | 14°11 | 7°29 | 22°11 | 29° 0 | 10° 2 | 0°29 | 6°16 | 6°30 | 5° 4 | n.a. | S 29 |
| S 30 | 14 19 40 | 5♉57'39 | 2♒29 | 27♈ 1 | 5♉37 | 14♉52 | 7♉43 | 22♑12 | 29♑ 0 | 10♈ 4 | 0♉31 | 6♉16 | 6♉27 | 5♎11 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 3n14 | 28s 1 | 4s39 | 9s43 | 2s29 | 1s14 | 1s20 | 9n49 | 0n 3 | 11n12 | 0s50 | 22s27 | 0s27 | 21s17 | 0s36 | 1n54 | 1s52 | 1s 3 | 13s27 | 13n52 | 14n20 | 1n59 | | n.a. |
| S 2 | 3 37 | 26 47 | 5 5 | 9 24 | 2 34 | 0 44 | 1 19 | 10 5 | 0 4 | 11 17 | 0 50 | 22 27 | 0 27 | 21 17 | 0 36 | 1 54 | 1 52 | 1 2 | 13 27 | 13 52 | 14 19 | 1 56 | | n.a. |
| M 3 | 4 0 | 23 54 | 5 14 | 9 2 | 2 38 | 0 13 | 1 18 | 10 21 | 0 4 | 11 22 | 0 50 | 22 26 | 0 27 | 21 16 | 0 36 | 1 55 | 1 52 | 1 1 | 13 27 | 13 51 | 14 17 | 1 53 | | n.a. |
| T 4 | 4 23 | 19 30 | 5 4 | 8 39 | 2 41 | 0n17 | 1 17 | 10 37 | 0 5 | 11 26 | 0 49 | 22 26 | 0 27 | 21 16 | 0 36 | 1 56 | 1 52 | 1 1 | 13 27 | 13 50 | 14 16 | 1 49 | | n.a. |
| W 5 | 4 46 | 13 49 | 4 35 | 8 14 | 2 44 | 0 48 | 1 16 | 10 52 | 0 6 | 11 31 | 0 49 | 22 26 | 0 28 | 21 16 | 0 36 | 1 57 | 1 52 | 1 0 | 13 26 | 13 49 | 14 15 | 1 46 | | n.a. |
| T 6 | 5 9 | 7 13 | 3 46 | 7 47 | 2 46 | 1 19 | 1 15 | 11 8 | 0 6 | 11 36 | 0 49 | 22 25 | 0 28 | 21 15 | 0 36 | 1 58 | 1 52 | 1 0 | 13 26 | 13 48 | 14 14 | 1 43 | | n.a. |
| F 7 | 5 32 | 0 8 | 2 40 | 7 18 | 2 48 | 1 49 | 1 14 | 11 23 | 0 7 | 11 41 | 0 49 | 22 25 | 0 28 | 21 15 | 0 36 | 1 59 | 1 52 | 0 59 | 13 26 | 13 47 | 14 13 | 1 39 | | n.a. |
| S 8 | 5 54 | 6n59 | 1 24 | 6 48 | 2 48 | 2 20 | 1 12 | 11 39 | 0 8 | 11 46 | 0 49 | 22 25 | 0 28 | 21 15 | 0 36 | 2 0 | 1 52 | 0 59 | 13 26 | 13 47 | 14 12 | 1 36 | | n.a. |
| S 9 | 6 17 | 13 39 | 0 2 | 6 17 | 2 49 | 2 51 | 1 11 | 11 54 | 0 8 | 11 51 | 0 49 | 22 24 | 0 28 | 21 15 | 0 36 | 2 1 | 1 52 | 0 58 | 13 26 | 13 46 | 14 11 | 1 33 | | n.a. |
| M10 | 6 40 | 19 24 | 1n19 | 5 44 | 2 48 | 3 21 | 1 10 | 12 9 | 0 9 | 11 55 | 0 49 | 22 24 | 0 28 | 21 14 | 0 36 | 2 2 | 1 52 | 0 58 | 13 26 | 13 47 | 14 10 | 1 29 | | n.a. |
| T 11 | 7 2 | 23 53 | 2 32 | 5 9 | 2 47 | 3 51 | 1 8 | 12 24 | 0 9 | 12 0 | 0 49 | 22 24 | 0 28 | 21 14 | 0 36 | 2 2 | 1 52 | 0 57 | 13 26 | 13 47 | 14 9 | 1 26 | | n.a. |
| W12 | 7 24 | 26 49 | 3 34 | 4 33 | 2 45 | 4 22 | 1 7 | 12 39 | 0 10 | 12 5 | 0 48 | 22 24 | 0 28 | 21 14 | 0 36 | 2 3 | 1 52 | 0 57 | 13 26 | 13 47 | 14 8 | 1 22 | | n.a. |
| T 13 | 7 46 | 28 4 | 4 23 | 3 55 | 2 43 | 4 52 | 1 5 | 12 54 | 0 11 | 12 10 | 0 48 | 22 23 | 0 29 | 21 14 | 0 37 | 2 4 | 1 52 | 0 56 | 13 26 | 13 48 | 14 7 | 1 19 | | n.a. |
| F 14 | 8 8 | 27 41 | 4 56 | 3 16 | 2 40 | 5 22 | 1 4 | 13 9 | 0 11 | 12 15 | 0 48 | 22 23 | 0 29 | 21 14 | 0 37 | 2 5 | 1 52 | 0 56 | 13 26 | 13 48 | 14 6 | 1 16 | | n.a. |
| S 15 | 8 30 | 25 51 | 5 13 | 2 35 | 2 37 | 5 52 | 1 2 | 13 24 | 0 12 | 12 19 | 0 48 | 22 23 | 0 29 | 21 13 | 0 37 | 2 6 | 1 52 | 0 55 | 13 25 | 13 48 | 14 5 | 1 12 | | n.a. |
| S 16 | 8 52 | 22 49 | 5 15 | 1 53 | 2 33 | 6 22 | 1 0 | 13 38 | 0 12 | 12 24 | 0 48 | 22 23 | 0 29 | 21 13 | 0 37 | 2 7 | 1 52 | 0 54 | 13 25 | 13 48 | 14 4 | 1 9 | | n.a. |
| M17 | 9 14 | 18 51 | 5 3 | 1 10 | 2 29 | 6 52 | 0 58 | 13 53 | 0 13 | 12 29 | 0 48 | 22 23 | 0 29 | 21 13 | 0 37 | 2 8 | 1 52 | 0 54 | 13 25 | 13 47 | 14 3 | 1 6 | | n.a. |
| T 18 | 9 35 | 14 11 | 4 38 | 0 25 | 2 24 | 7 22 | 0 57 | 14 7 | 0 13 | 12 34 | 0 48 | 22 22 | 0 29 | 21 13 | 0 37 | 2 9 | 1 52 | 0 53 | 13 25 | 13 47 | 14 2 | 1 2 | | n.a. |
| W19 | 9 56 | 9 2 | 4 1 | 0n20 | 2 18 | 7 51 | 0 55 | 14 21 | 0 14 | 12 39 | 0 48 | 22 22 | 0 29 | 21 13 | 0 37 | 2 9 | 1 52 | 0 53 | 13 25 | 13 46 | 14 1 | 0 59 | | n.a. |
| T 20 | 10 18 | 3 35 | 3 14 | 1 7 | 2 12 | 8 21 | 0 53 | 14 35 | 0 15 | 12 43 | 0 48 | 22 22 | 0 29 | 21 13 | 0 37 | 2 10 | 1 52 | 0 52 | 13 25 | 13 46 | 14 0 | 0 56 | | n.a. |
| F 21 | 10 39 | 1s59 | 2 19 | 1 56 | 2 5 | 8 50 | 0 51 | 14 49 | 0 15 | 12 48 | 0 48 | 22 22 | 0 30 | 21 12 | 0 37 | 2 11 | 1 52 | 0 52 | 13 25 | 13 45 | 13 59 | 0 52 | | n.a. |
| S 22 | 10 59 | 7 31 | 1 18 | 2 45 | 1 58 | 9 19 | 0 49 | 15 3 | 0 16 | 12 53 | 0 47 | 22 22 | 0 30 | 21 12 | 0 37 | 2 12 | 1 52 | 0 51 | 13 25 | 13 45 | 13 58 | 0 49 | | n.a. |
| S 23 | 11 20 | 12 49 | 0 12 | 3 35 | 1 50 | 9 47 | 0 47 | 15 16 | 0 16 | 12 58 | 0 47 | 22 22 | 0 30 | 21 12 | 0 37 | 2 13 | 1 52 | 0 51 | 13 25 | 13 45 | 13 57 | 0 46 | | n.a. |
| M24 | 11 40 | 17 42 | 0s54 | 4 27 | 1 42 | 10 16 | 0 45 | 15 30 | 0 17 | 13 2 | 0 47 | 22 22 | 0 30 | 21 12 | 0 37 | 2 14 | 1 53 | 0 50 | 13 25 | 13 45 | 13 55 | 0 42 | | n.a. |
| T 25 | 12 1 | 21 56 | 1 59 | 5 19 | 1 34 | 10 44 | 0 43 | 15 43 | 0 18 | 13 7 | 0 47 | 22 22 | 0 30 | 21 12 | 0 37 | 2 14 | 1 53 | 0 50 | 13 25 | 13 45 | 13 54 | 0 39 | | n.a. |
| W26 | 12 21 | 25 15 | 2 59 | 6 12 | 1 25 | 11 12 | 0 41 | 15 56 | 0 18 | 13 12 | 0 47 | 22 22 | 0 30 | 21 12 | 0 37 | 2 15 | 1 53 | 0 49 | 13 25 | 13 45 | 13 53 | 0 36 | | n.a. |
| T 27 | 12 41 | 27 24 | 3 52 | 7 5 | 1 15 | 11 40 | 0 39 | 16 10 | 0 19 | 13 16 | 0 47 | 22 22 | 0 30 | 21 12 | 0 37 | 2 16 | 1 53 | 0 49 | 13 25 | 13 45 | 13 52 | 0 32 | | n.a. |
| F 28 | 13 1 | 28 8 | 4 34 | 8 0 | 1 6 | 12 8 | 0 37 | 16 23 | 0 19 | 13 21 | 0 47 | 22 22 | 0 31 | 21 12 | 0 37 | 2 17 | 1 53 | 0 49 | 13 25 | 13 46 | 13 51 | 0 29 | | n.a. |
| S 29 | 13 20 | 27 20 | 5 3 | 8 54 | 0 56 | 12 35 | 0 35 | 16 35 | 0 20 | 13 26 | 0 47 | 22 22 | 0 31 | 21 12 | 0 37 | 2 18 | 1 53 | 0 48 | 13 25 | 13 46 | 13 50 | 0 25 | | n.a. |
| S 30 | 13n39 | 24s58 | 5s17 | 9n49 | 0s46 | 13n 2 | 0s33 | 16n48 | 0n20 | 13n30 | 0s47 | 22s22 | 0s31 | 21s12 | 0s37 | 2n18 | 1s53 | 0s48 | 13s25 | 13n46 | 13n49 | 0n22 | | n.a. |

Julian Day Number = 1684988.5, Delta T = 03h13m29s
Ecliptic obliquity = 23°42'33, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°26'33, Lahiri = - 5°19'32 Julian Calendar 1 Apr. 100 BCE == Greg. Calendar 30 March 100 BCE

The year -99 astronomical counting style corresponds to year 100 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 100 BCE
# geocentric

## MAY 100 BCE (-99) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 14 23 36 | 6♉55'03 | 16♒15 | 29♈ 7 | 6♉51 | 15♉32 | 7♉57 | 22♑13 | 29♑ 0 | 10♈ 6 | 0♉32 | 6♉16 | 6♉23 | 5♎18 | n.a. | M 1 |
| T 2 | 14 27 33 | 7°52'26 | 0♓22 | 1♉14 | 8° 4 | 16°13 | 8°11 | 22°13 | 29° 1 | 10° 8 | 0°33 | 6°16 | 6°20 | 5°24 | n.a. | T 2 |
| W 3 | 14 31 29 | 8°49'48 | 14°49 | 3°23 | 9°18 | 16°53 | 8°25 | 22°13 | 29° 1 | 10°10 | 0°35 | 6°16 | 6°17 | 5°31 | n.a. | W 3 |
| T 4 | 14 35 26 | 9°47'09 | 29°31 | 5°32 | 10°32 | 17°34 | 8°39 | 22°13 | 29° 1 | 10°12 | 0°36 | 6°16 | 6°14 | 5°38 | n.a. | T 4 |
| F 5 | 14 39 23 | 10°44'30 | 14♈25 | 7°43 | 11°45 | 18°14 | 8°53 | 22°14 | 29° 1 | 10°14 | 0°37 | 6°17 | 6°11 | 5°44 | n.a. | F 5 |
| S 6 | 14 43 19 | 11°41'50 | 29°22 | 9°54 | 12°59 | 18°54 | 9° 7 | 22°R14 | 29° 1 | 10°16 | 0°39 | 6°R17 | 6° 7 | 5°51 | n.a. | S 6 |
| S 7 | 14 47 16 | 12°39'10 | 14♉15 | 12° 6 | 14°13 | 19°35 | 9°21 | 22°13 | 29°R 1 | 10°18 | 0°40 | 6°17 | 6° 4 | 5°58 | n.a. | S 7 |
| M 8 | 14 51 12 | 13°36'28 | 28°56 | 14°18 | 15°26 | 20°15 | 9°35 | 22°13 | 29° 1 | 10°20 | 0°41 | 6°17 | 6° 1 | 6° 4 | n.a. | M 8 |
| T 9 | 14 55 9 | 14°33'46 | 13♊18 | 16°29 | 16°40 | 20°55 | 9°49 | 22°13 | 29° 1 | 10°22 | 0°43 | 6°16 | 5°58 | 6°11 | n.a. | T 9 |
| W10 | 14 59 5 | 15°31'03 | 27°18 | 18°41 | 17°54 | 21°36 | 10° 3 | 22°13 | 29° 1 | 10°24 | 0°44 | 6°15 | 5°55 | 6°18 | n.a. | W10 |
| T 11 | 15 3 2 | 16°28'19 | 10♋52 | 20°51 | 19° 7 | 22°16 | 10°16 | 22°12 | 29° 1 | 10°26 | 0°45 | 6°14 | 5°52 | 6°24 | n.a. | T 11 |
| F 12 | 15 6 59 | 17°25'34 | 24° 1 | 23° 1 | 20°21 | 22°56 | 10°30 | 22°11 | 29° 0 | 10°28 | 0°47 | 6°13 | 5°48 | 6°31 | n.a. | F 12 |
| S 13 | 15 10 55 | 18°22'48 | 6♌46 | 25°10 | 21°35 | 23°36 | 10°44 | 22°11 | 29° 0 | 10°30 | 0°48 | 6°12 | 5°45 | 6°38 | n.a. | S 13 |
| S 14 | 15 14 52 | 19°20'00 | 19°11 | 27°17 | 22°48 | 24°16 | 10°58 | 22°10 | 29° 0 | 10°32 | 0°49 | 6°D12 | 5°42 | 6°44 | n.a. | S 14 |
| M15 | 15 18 48 | 20°17'12 | 1♍21 | 29°23 | 24° 2 | 24°56 | 11°12 | 22° 9 | 28°59 | 10°34 | 0°51 | 6°12 | 5°39 | 6°51 | n.a. | M15 |
| T 16 | 15 22 45 | 21°14'24 | 13°19 | 1♊27 | 25°16 | 25°36 | 11°26 | 22° 8 | 28°59 | 10°35 | 0°52 | 6°13 | 5°36 | 6°58 | n.a. | T 16 |
| W17 | 15 26 41 | 22°11'34 | 25°10 | 3°29 | 26°29 | 26°16 | 11°39 | 22° 7 | 28°59 | 10°37 | 0°53 | 6°14 | 5°33 | 7° 4 | n.a. | W17 |
| T 18 | 15 30 38 | 23° 8'43 | 6♎59 | 5°30 | 27°43 | 26°56 | 11°53 | 22° 6 | 28°58 | 10°39 | 0°54 | 6°15 | 5°29 | 7°11 | n.a. | T 18 |
| F 19 | 15 34 34 | 24° 5'52 | 18°49 | 7°28 | 28°57 | 27°36 | 12° 7 | 22° 5 | 28°57 | 10°41 | 0°56 | 6°17 | 5°26 | 7°18 | n.a. | F 19 |
| S 20 | 15 38 31 | 25° 3'01 | 0♏45 | 9°24 | 0♊10 | 28°16 | 12°21 | 22° 3 | 28°57 | 10°43 | 0°57 | 6°R17 | 5°23 | 7°24 | n.a. | S 20 |
| S 21 | 15 42 28 | 26° 0'08 | 12°48 | 11°19 | 1°24 | 28°56 | 12°34 | 22° 2 | 28°56 | 10°44 | 0°58 | 6°17 | 5°20 | 7°31 | n.a. | S 21 |
| M22 | 15 46 24 | 26°57'16 | 25° 2 | 13°11 | 2°38 | 29°36 | 12°48 | 22° 0 | 28°55 | 10°46 | 0°59 | 6°16 | 5°17 | 7°38 | n.a. | M22 |
| T 23 | 15 50 21 | 27°54'23 | 7♐27 | 15° 0 | 3°51 | 0♊16 | 13° 2 | 21°59 | 28°55 | 10°48 | 1° 1 | 6°14 | 5°13 | 7°44 | n.a. | T 23 |
| W24 | 15 54 17 | 28°51'30 | 20° 5 | 16°48 | 5° 5 | 0°55 | 13°15 | 21°57 | 28°54 | 10°49 | 1° 2 | 6°11 | 5°10 | 7°51 | n.a. | W24 |
| T 25 | 15 58 14 | 29°48'36 | 2♑57 | 18°33 | 6°19 | 1°35 | 13°29 | 21°55 | 28°53 | 10°51 | 1° 3 | 6° 8 | 5° 7 | 7°58 | n.a. | T 25 |
| F 26 | 16 2 10 | 0♊45'43 | 16° 3 | 20°16 | 7°32 | 2°15 | 13°43 | 21°53 | 28°52 | 10°52 | 1° 4 | 6° 4 | 5° 4 | 8° 4 | n.a. | F 26 |
| S 27 | 16 6 7 | 1°42'49 | 29°23 | 21°57 | 8°46 | 2°54 | 13°56 | 21°51 | 28°51 | 10°54 | 1° 5 | 6° 1 | 5° 1 | 8°11 | n.a. | S 27 |
| S 28 | 16 10 3 | 2°39'56 | 12♒57 | 23°35 | 10° 0 | 3°34 | 14°10 | 21°49 | 28°50 | 10°56 | 1° 7 | 5°59 | 4°58 | 8°18 | n.a. | S 28 |
| M29 | 16 14 0 | 3°37'03 | 26°44 | 25°11 | 11°13 | 4°14 | 14°23 | 21°47 | 28°49 | 10°57 | 1° 8 | 5°58 | 4°54 | 8°24 | n.a. | M29 |
| T 30 | 16 17 57 | 4°34'09 | 10♓45 | 26°45 | 12°27 | 4°53 | 14°37 | 21°45 | 28°48 | 10°59 | 1° 9 | 5°D58 | 4°51 | 8°31 | n.a. | T 30 |
| W31 | 16 21 53 | 5♊31'16 | 24♓58 | 28♊16 | 13♊41 | 5♊33 | 14♉50 | 21♑43 | 28♑47 | 11♈ 0 | 1♉10 | 5♉58 | 4♉48 | 8♎38 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| M 1 | 13n59 | 21s 6 | 5s13 | 10n44 | 0s35 | 13n28 | 0s30 | 17n 1 | 0n21 | 13n35 | 0s47 | 22s22 | 0s31 | 21s12 | 0s37 | 2n19 | 1s53 | 0s47 | 13s25 | 13n46 | 13n48 | 0n19 | | | n.a. |
| T 2 | 14 17 | 15 58 | 4 50 | 11 39 | 0 25 | 13 55 | 0 28 | 17 13 | 0 21 | 13 40 | 0 47 | 22 22 | 0 31 | 21 12 | 0 37 | 2 20 | 1 53 | 0 47 | 13 25 | 13 46 | 13 47 | 0 15 | | | n.a. |
| W 3 | 14 36 | 9 51 | 4 9 | 12 34 | 0 14 | 14 21 | 0 26 | 17 25 | 0 22 | 13 44 | 0 46 | 22 22 | 0 31 | 21 12 | 0 37 | 2 21 | 1 53 | 0 46 | 13 25 | 13 46 | 13 46 | 0 12 | | | n.a. |
| T 4 | 14 55 | 3 6 | 3 10 | 13 28 | 0 3 | 14 46 | 0 24 | 17 37 | 0 23 | 13 49 | 0 46 | 22 22 | 0 31 | 21 12 | 0 37 | 2 22 | 1 53 | 0 46 | 13 25 | 13 46 | 13 45 | 0 9 | | | n.a. |
| F 5 | 15 13 | 3n56 | 1 58 | 14 21 | 0n 7 | 15 12 | 0 21 | 17 49 | 0 23 | 13 53 | 0 46 | 22 22 | 0 31 | 21 12 | 0 37 | 2 22 | 1 53 | 0 45 | 13 25 | 13 46 | 13 44 | 0 5 | | | n.a. |
| S 6 | 15 31 | 10 47 | 0 38 | 15 14 | 0 18 | 15 36 | 0 19 | 18 1 | 0 24 | 13 58 | 0 46 | 22 22 | 0 32 | 21 12 | 0 37 | 2 23 | 1 53 | 0 45 | 13 25 | 13 46 | 13 43 | 0 2 | | | n.a. |
| S 7 | 15 49 | 17 0 | 0n44 | 16 5 | 0 28 | 16 1 | 0 17 | 18 13 | 0 24 | 14 3 | 0 46 | 22 23 | 0 32 | 21 12 | 0 37 | 2 24 | 1 53 | 0 44 | 13 25 | 13 46 | 13 42 | 0s 1 | | | n.a. |
| M 8 | 16 6 | 22 8 | 2 2 | 16 55 | 0 38 | 16 25 | 0 14 | 18 24 | 0 25 | 14 7 | 0 46 | 22 23 | 0 32 | 21 12 | 0 37 | 2 25 | 1 53 | 0 44 | 13 25 | 13 46 | 13 41 | 0 5 | | | n.a. |
| T 9 | 16 23 | 25 49 | 3 11 | 17 43 | 0 48 | 16 49 | 0 12 | 18 36 | 0 25 | 14 12 | 0 46 | 22 23 | 0 32 | 21 12 | 0 37 | 2 25 | 1 53 | 0 44 | 13 25 | 13 46 | 13 40 | 0 8 | | | n.a. |
| W10 | 16 40 | 27 47 | 4 7 | 18 30 | 0 57 | 17 12 | 0 10 | 18 47 | 0 26 | 14 16 | 0 46 | 22 23 | 0 32 | 21 12 | 0 38 | 2 26 | 1 53 | 0 43 | 13 25 | 13 45 | 13 38 | 0 11 | | | n.a. |
| T 11 | 16 57 | 28 1 | 4 46 | 19 14 | 1 6 | 17 35 | 0 7 | 18 58 | 0 26 | 14 21 | 0 46 | 22 23 | 0 32 | 21 12 | 0 38 | 2 27 | 1 53 | 0 43 | 13 25 | 13 45 | 13 37 | 0 15 | | | n.a. |
| F 12 | 17 13 | 26 38 | 5 10 | 19 56 | 1 14 | 17 57 | 0 5 | 19 9 | 0 27 | 14 25 | 0 46 | 22 24 | 0 32 | 21 12 | 0 38 | 2 28 | 1 53 | 0 42 | 13 25 | 13 44 | 13 36 | 0 18 | | | n.a. |
| S 13 | 17 30 | 23 53 | 5 17 | 20 36 | 1 22 | 18 19 | 0 3 | 19 20 | 0 27 | 14 29 | 0 46 | 22 24 | 0 33 | 21 12 | 0 38 | 2 28 | 1 53 | 0 42 | 13 25 | 13 44 | 13 35 | 0 22 | | | n.a. |
| S 14 | 17 45 | 20 7 | 5 9 | 21 13 | 1 29 | 18 41 | 0 0 | 19 30 | 0 28 | 14 34 | 0 46 | 22 24 | 0 33 | 21 12 | 0 38 | 2 29 | 1 53 | 0 42 | 13 25 | 13 44 | 13 34 | 0 25 | | | n.a. |
| M15 | 18 1 | 15 34 | 4 47 | 21 48 | 1 36 | 19 2 | 0n 2 | 19 41 | 0 28 | 14 38 | 0 46 | 22 24 | 0 33 | 21 12 | 0 38 | 2 30 | 1 53 | 0 41 | 13 25 | 13 44 | 13 33 | 0 28 | | | n.a. |
| T 16 | 18 16 | 10 31 | 4 13 | 22 21 | 1 42 | 19 22 | 0 4 | 19 51 | 0 29 | 14 43 | 0 45 | 22 25 | 0 33 | 21 13 | 0 38 | 2 30 | 1 53 | 0 41 | 13 25 | 13 44 | 13 32 | 0 32 | | | n.a. |
| W17 | 18 31 | 5 7 | 3 28 | 22 50 | 1 47 | 19 42 | 0 7 | 20 1 | 0 30 | 14 47 | 0 45 | 22 25 | 0 33 | 21 13 | 0 38 | 2 31 | 1 53 | 0 41 | 13 25 | 13 45 | 13 31 | 0 35 | | | n.a. |
| T 18 | 18 46 | 0s26 | 2 35 | 23 17 | 1 52 | 20 1 | 0 9 | 20 11 | 0 30 | 14 51 | 0 45 | 22 25 | 0 33 | 21 13 | 0 38 | 2 32 | 1 53 | 0 40 | 13 25 | 13 45 | 13 30 | 0 38 | | | n.a. |
| F 19 | 19 0 | 5 59 | 1 35 | 23 42 | 1 55 | 20 20 | 0 12 | 20 21 | 0 31 | 14 56 | 0 45 | 22 26 | 0 33 | 21 13 | 0 38 | 2 32 | 1 53 | 0 40 | 13 26 | 13 46 | 13 29 | 0 42 | | | n.a. |
| S 20 | 19 15 | 11 23 | 0 31 | 24 4 | 1 58 | 20 39 | 0 14 | 20 30 | 0 31 | 15 0 | 0 45 | 22 26 | 0 34 | 21 13 | 0 38 | 2 33 | 1 53 | 0 39 | 13 26 | 13 46 | 13 28 | 0 45 | | | n.a. |
| S 21 | 19 28 | 16 25 | 0s36 | 24 23 | 2 1 | 20 56 | 0 16 | 20 40 | 0 32 | 15 4 | 0 45 | 22 26 | 0 34 | 21 13 | 0 38 | 2 34 | 1 53 | 0 39 | 13 26 | 13 46 | 13 27 | 0 49 | | | n.a. |
| M22 | 19 42 | 20 53 | 1 42 | 24 40 | 2 2 | 21 14 | 0 19 | 20 49 | 0 32 | 15 8 | 0 45 | 22 27 | 0 34 | 21 13 | 0 38 | 2 34 | 1 53 | 0 39 | 13 26 | 13 46 | 13 26 | 0 52 | | | n.a. |
| T 23 | 19 55 | 24 29 | 2 43 | 24 54 | 2 3 | 21 30 | 0 21 | 20 58 | 0 33 | 15 13 | 0 45 | 22 27 | 0 34 | 21 14 | 0 38 | 2 35 | 1 54 | 0 38 | 13 26 | 13 45 | 13 25 | 0 55 | | | n.a. |
| W24 | 20 8 | 26 58 | 3 38 | 25 6 | 2 4 | 21 46 | 0 23 | 21 7 | 0 33 | 15 17 | 0 45 | 22 27 | 0 34 | 21 14 | 0 38 | 2 35 | 1 54 | 0 38 | 13 26 | 13 44 | 13 24 | 0 59 | | | n.a. |
| T 25 | 20 20 | 28 3 | 4 23 | 25 15 | 2 3 | 22 2 | 0 26 | 21 15 | 0 34 | 15 21 | 0 45 | 22 28 | 0 34 | 21 14 | 0 38 | 2 36 | 1 54 | 0 38 | 13 26 | 13 43 | 13 22 | 1 2 | | | n.a. |
| F 26 | 20 32 | 27 37 | 4 55 | 25 23 | 2 2 | 22 16 | 0 28 | 21 24 | 0 34 | 15 25 | 0 45 | 22 28 | 0 34 | 21 14 | 0 38 | 2 37 | 1 54 | 0 38 | 13 26 | 13 42 | 13 21 | 1 5 | | | n.a. |
| S 27 | 20 44 | 25 35 | 5 12 | 25 28 | 2 0 | 22 30 | 0 30 | 21 32 | 0 35 | 15 29 | 0 45 | 22 29 | 0 35 | 21 14 | 0 38 | 2 37 | 1 54 | 0 37 | 13 26 | 13 41 | 13 20 | 1 9 | | | n.a. |
| S 28 | 20 56 | 22 5 | 5 11 | 25 31 | 1 58 | 22 44 | 0 32 | 21 41 | 0 35 | 15 33 | 0 45 | 22 29 | 0 35 | 21 15 | 0 38 | 2 38 | 1 54 | 0 37 | 13 26 | 13 40 | 13 19 | 1 12 | | | n.a. |
| M29 | 21 7 | 17 19 | 4 53 | 25 32 | 1 55 | 22 57 | 0 35 | 21 49 | 0 36 | 15 37 | 0 45 | 22 30 | 0 35 | 21 15 | 0 38 | 2 38 | 1 54 | 0 37 | 13 27 | 13 39 | 13 18 | 1 16 | | | n.a. |
| T 30 | 21 18 | 11 35 | 4 18 | 25 31 | 1 51 | 23 9 | 0 37 | 21 57 | 0 36 | 15 42 | 0 45 | 22 30 | 0 35 | 21 15 | 0 38 | 2 39 | 1 54 | 0 36 | 13 27 | 13 39 | 13 17 | 1 19 | | | n.a. |
| W31 | 21n28 | 5s10 | 3s26 | 25n29 | 1n47 | 23n21 | 0n39 | 22n 4 | 0n37 | 15n46 | 0s45 | 22s31 | 0s35 | 21s15 | 0s38 | 2n39 | 1s54 | 0s36 | 13s27 | 13n40 | 13n16 | 1s22 | | | n.a. |

Julian Day Number = 1685018.5, Delta T = 03h13m28s
Ecliptic obliquity = 23°42'33, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°26'29, Lahiri = - 5°19'28 Julian Calendar 1 May 100 BCE == Greg. Calendar 29 Apr. 100 BCE

The year -99 astronomical counting style corresponds to year 100 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 100 BCE
# geocentric

## JUNE 100 BCE (-99) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 25 50 | 6♊28'23 | 9♈21 | 29♊45 | 14♊54 | 6♊12 | 15♉ 4 | 21°R40 | 28°R46 | 11♈ 2 | 1♉11 | 6♉ 0 | 4♉45 | 8♎44 | n.a. | T 1 |
| F 2 | 16 29 46 | 7°25'31 | 23°51 | 1♋12 | 16° 8 | 6°52 | 15°17 | 21♉38 | 28♉45 | 11° 3 | 1°12 | 6° 1 | 4°42 | 8°51 | n.a. | F 2 |
| S 3 | 16 33 43 | 8°22'39 | 8♉25 | 2°37 | 17°22 | 7°31 | 15°30 | 21°35 | 28°44 | 11° 5 | 1°14 | 6°R 1 | 4°39 | 8°58 | n.a. | S 3 |
| S 4 | 16 37 39 | 9°19'47 | 22°57 | 3°59 | 18°35 | 8°11 | 15°44 | 21°32 | 28°42 | 11° 6 | 1°15 | 6° 0 | 4°35 | 9° 4 | n.a. | S 4 |
| M 5 | 16 41 36 | 10°16'55 | 7♊22 | 5°18 | 19°49 | 8°50 | 15°57 | 21°30 | 28°41 | 11° 7 | 1°16 | 5°58 | 4°32 | 9°11 | n.a. | M 5 |
| T 6 | 16 45 32 | 11°14'03 | 21°33 | 6°35 | 21° 3 | 9°29 | 16°10 | 21°27 | 28°40 | 11° 9 | 1°17 | 5°54 | 4°29 | 9°18 | n.a. | T 6 |
| W 7 | 16 49 29 | 12°11'12 | 5♋26 | 7°50 | 22°17 | 10° 9 | 16°23 | 21°24 | 28°38 | 11°10 | 1°18 | 5°48 | 4°26 | 9°24 | n.a. | W 7 |
| T 8 | 16 53 26 | 13° 8'20 | 18°58 | 9° 1 | 23°30 | 10°48 | 16°36 | 21°21 | 28°37 | 11°11 | 1°19 | 5°43 | 4°23 | 9°31 | n.a. | T 8 |
| F 9 | 16 57 22 | 14° 5'29 | 2♌ 7 | 10°11 | 24°44 | 11°27 | 16°50 | 21°18 | 28°35 | 11°12 | 1°20 | 5°37 | 4°19 | 9°38 | n.a. | F 9 |
| S 10 | 17 1 19 | 15° 2'37 | 14°53 | 11°17 | 25°58 | 12° 6 | 17° 3 | 21°15 | 28°34 | 11°14 | 1°21 | 5°32 | 4°16 | 9°44 | n.a. | S 10 |
| S 11 | 17 5 15 | 15°59'46 | 27°20 | 12°21 | 27°11 | 12°46 | 17°16 | 21°12 | 28°32 | 11°15 | 1°22 | 5°29 | 4°13 | 9°51 | n.a. | S 11 |
| M12 | 17 9 12 | 16°56'54 | 9♍30 | 13°21 | 28°25 | 13°25 | 17°29 | 21° 8 | 28°31 | 11°16 | 1°23 | 5°27 | 4°10 | 9°58 | n.a. | M12 |
| T 13 | 17 13 8 | 17°54'03 | 21°29 | 14°19 | 29°39 | 14° 4 | 17°41 | 21° 5 | 28°29 | 11°17 | 1°24 | 5°D27 | 4° 7 | 10° 4 | n.a. | T 13 |
| W14 | 17 17 5 | 18°51'12 | 3♎20 | 15°13 | 0♋52 | 14°43 | 17°54 | 21° 2 | 28°28 | 11°18 | 1°25 | 5°28 | 4° 4 | 10°11 | n.a. | W14 |
| T 15 | 17 21 2 | 19°48'21 | 15° 9 | 16° 5 | 2° 6 | 15°22 | 18° 7 | 20°58 | 28°26 | 11°19 | 1°26 | 5°29 | 4° 0 | 10°18 | n.a. | T 15 |
| F 16 | 17 24 58 | 20°45'30 | 27° 1 | 16°52 | 3°20 | 16° 1 | 18°20 | 20°55 | 28°24 | 11°20 | 1°27 | 5°30 | 3°57 | 10°24 | n.a. | F 16 |
| S 17 | 17 28 55 | 21°42'39 | 9♏ 1 | 17°37 | 4°33 | 16°40 | 18°33 | 20°51 | 28°22 | 11°21 | 1°28 | 5°R30 | 3°54 | 10°31 | n.a. | S 17 |
| S 18 | 17 32 51 | 22°39'49 | 21°12 | 18°17 | 5°47 | 17°19 | 18°45 | 20°47 | 28°21 | 11°22 | 1°29 | 5°29 | 3°51 | 10°38 | n.a. | S 18 |
| M19 | 17 36 48 | 23°36'59 | 3♐38 | 18°54 | 7° 1 | 17°58 | 18°58 | 20°44 | 28°19 | 11°23 | 1°30 | 5°26 | 3°48 | 10°44 | n.a. | M19 |
| T 20 | 17 40 44 | 24°34'10 | 16°19 | 19°27 | 8°15 | 18°37 | 19°10 | 20°40 | 28°17 | 11°24 | 1°31 | 5°20 | 3°45 | 10°51 | n.a. | T 20 |
| W21 | 17 44 41 | 25°31'21 | 29°18 | 19°56 | 9°28 | 19°16 | 19°23 | 20°36 | 28°15 | 11°25 | 1°32 | 5°13 | 3°41 | 10°57 | n.a. | W21 |
| T 22 | 17 48 37 | 26°28'33 | 12♑33 | 20°20 | 10°42 | 19°55 | 19°35 | 20°32 | 28°13 | 11°26 | 1°32 | 5° 5 | 3°38 | 11° 4 | n.a. | T 22 |
| F 23 | 17 52 34 | 27°25'46 | 26° 2 | 20°40 | 11°56 | 20°34 | 19°47 | 20°28 | 28°11 | 11°27 | 1°33 | 4°56 | 3°35 | 11°11 | n.a. | F 23 |
| S 24 | 17 56 31 | 28°22'59 | 9♒44 | 20°55 | 13° 9 | 21°13 | 20° 0 | 20°24 | 28° 9 | 11°28 | 1°34 | 4°49 | 3°32 | 11°17 | n.a. | S 24 |
| S 25 | 18 0 27 | 29°20'14 | 23°36 | 21° 6 | 14°23 | 21°52 | 20°12 | 20°20 | 28° 7 | 11°29 | 1°35 | 4°42 | 3°29 | 11°24 | n.a. | S 25 |
| M26 | 18 4 24 | 0♋17'29 | 7♓35 | 21°12 | 15°37 | 22°31 | 20°24 | 20°16 | 28° 5 | 11°29 | 1°36 | 4°38 | 3°25 | 11°31 | n.a. | M26 |
| T 27 | 18 8 20 | 1°14'46 | 21°39 | 21°R12 | 16°50 | 23°10 | 20°36 | 20°12 | 28° 3 | 11°30 | 1°37 | 4°36 | 3°22 | 11°37 | n.a. | T 27 |
| W28 | 18 12 17 | 2°12'03 | 5♈47 | 21° 8 | 18° 4 | 23°48 | 20°48 | 20° 8 | 28° 1 | 11°31 | 1°37 | 4°D35 | 3°19 | 11°44 | n.a. | W28 |
| T 29 | 18 16 13 | 3° 9'22 | 19°57 | 20°59 | 19°18 | 24°27 | 21° 0 | 20° 4 | 27°59 | 11°31 | 1°38 | 4°36 | 3°16 | 11°51 | n.a. | T 29 |
| F 30 | 18 20 10 | 4♋ 6'42 | 4♉ 8 | 20♋44 | 20♋31 | 25♊ 6 | 21♉12 | 20♑ 0 | 27♑57 | 11♈32 | 1♉39 | 4°R36 | 3♉13 | 11♎57 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21n38 | 1n35 | 2s21 | 25n24 | 1n42 | 23n32 | 0n41 | 22n12 | 0n37 | 15n50 | 0s45 | 22s31 | 0s35 | 21s16 | 0s38 | 2n40 | 1s54 | 0s36 | 13s27 | 13n40 | 13n15 | 1s26 | | n.a. |
| F 2 | 21 48 | 8 20 | 1 6 | 25 19 | 1 36 | 23 42 | 0 43 | 22 19 | 0 38 | 15 54 | 0 45 | 22 32 | 0 35 | 21 16 | 0 38 | 2 40 | 1 54 | 0 36 | 13 27 | 13 41 | 13 14 | 1 29 | | n.a. |
| S 3 | 21 57 | 14 41 | 0n13 | 25 11 | 1 30 | 23 51 | 0 45 | 22 26 | 0 38 | 15 58 | 0 45 | 22 32 | 0 35 | 21 16 | 0 38 | 2 41 | 1 54 | 0 35 | 13 27 | 13 41 | 13 13 | 1 32 | | n.a. |
| S 4 | 22 6 | 20 11 | 1 31 | 25 2 | 1 24 | 24 0 | 0 48 | 22 33 | 0 38 | 16 1 | 0 44 | 22 33 | 0 36 | 21 17 | 0 38 | 2 41 | 1 54 | 0 35 | 13 27 | 13 40 | 13 12 | 1 36 | | n.a. |
| M 5 | 22 15 | 24 27 | 2 43 | 24 52 | 1 16 | 24 8 | 0 50 | 22 40 | 0 39 | 16 5 | 0 44 | 22 33 | 0 36 | 21 17 | 0 38 | 2 42 | 1 54 | 0 35 | 13 27 | 13 40 | 13 11 | 1 39 | | n.a. |
| T 6 | 22 23 | 27 9 | 3 43 | 24 41 | 1 9 | 24 16 | 0 52 | 22 46 | 0 39 | 16 9 | 0 44 | 22 34 | 0 36 | 21 17 | 0 38 | 2 42 | 1 54 | 0 35 | 13 28 | 13 38 | 13 10 | 1 43 | | n.a. |
| W 7 | 22 30 | 28 4 | 4 28 | 24 29 | 1 0 | 24 22 | 0 54 | 22 53 | 0 40 | 16 13 | 0 44 | 22 35 | 0 36 | 21 17 | 0 38 | 2 43 | 1 54 | 0 34 | 13 28 | 13 36 | 13 8 | 1 46 | | n.a. |
| T 8 | 22 38 | 27 15 | 4 58 | 24 15 | 0 51 | 24 28 | 0 56 | 22 59 | 0 40 | 16 17 | 0 44 | 22 35 | 0 36 | 21 18 | 0 38 | 2 43 | 1 54 | 0 34 | 13 28 | 13 34 | 13 7 | 1 49 | | n.a. |
| F 9 | 22 45 | 24 56 | 5 10 | 24 1 | 0 42 | 24 34 | 0 57 | 23 5 | 0 41 | 16 21 | 0 44 | 22 36 | 0 36 | 21 18 | 0 38 | 2 44 | 1 54 | 0 34 | 13 28 | 13 32 | 13 6 | 1 53 | | n.a. |
| S 10 | 22 52 | 21 25 | 5 6 | 23 46 | 0 32 | 24 38 | 0 59 | 23 11 | 0 41 | 16 24 | 0 44 | 22 36 | 0 36 | 21 18 | 0 39 | 2 44 | 1 55 | 0 34 | 13 28 | 13 31 | 13 5 | 1 56 | | n.a. |
| S 11 | 22 58 | 17 2 | 4 48 | 23 30 | 0 22 | 24 42 | 1 1 | 23 16 | 0 42 | 16 28 | 0 44 | 22 37 | 0 36 | 21 19 | 0 39 | 2 45 | 1 55 | 0 34 | 13 28 | 13 30 | 13 4 | 1 59 | | n.a. |
| M12 | 23 4 | 12 4 | 4 18 | 23 13 | 0 11 | 24 45 | 1 3 | 23 22 | 0 42 | 16 32 | 0 44 | 22 38 | 0 37 | 21 19 | 0 39 | 2 45 | 1 55 | 0 33 | 13 29 | 13 29 | 13 3 | 2 3 | | n.a. |
| T 13 | 23 9 | 6 43 | 3 36 | 22 56 | 0 0 | 24 47 | 1 5 | 23 27 | 0 43 | 16 36 | 0 44 | 22 38 | 0 37 | 21 20 | 0 39 | 2 45 | 1 55 | 0 33 | 13 29 | 13 29 | 13 2 | 2 6 | | n.a. |
| W14 | 23 14 | 1 11 | 2 46 | 22 39 | 0s11 | 24 49 | 1 6 | 23 32 | 0 43 | 16 39 | 0 44 | 22 39 | 0 37 | 21 20 | 0 39 | 2 46 | 1 55 | 0 33 | 13 29 | 13 29 | 13 1 | 2 10 | | n.a. |
| T 15 | 23 19 | 4s22 | 1 48 | 22 21 | 0 23 | 24 50 | 1 8 | 23 37 | 0 44 | 16 43 | 0 44 | 22 40 | 0 37 | 21 20 | 0 39 | 2 46 | 1 55 | 0 33 | 13 29 | 13 30 | 13 0 | 2 13 | | n.a. |
| F 16 | 23 23 | 9 49 | 0 46 | 22 3 | 0 36 | 24 50 | 1 10 | 23 42 | 0 44 | 16 46 | 0 44 | 22 40 | 0 37 | 21 21 | 0 39 | 2 47 | 1 55 | 0 33 | 13 29 | 13 30 | 12 59 | 2 16 | | n.a. |
| S 17 | 23 27 | 14 58 | 0s19 | 21 44 | 0 48 | 24 49 | 1 11 | 23 46 | 0 45 | 16 50 | 0 44 | 22 41 | 0 37 | 21 21 | 0 39 | 2 47 | 1 55 | 0 33 | 13 29 | 13 30 | 12 58 | 2 20 | | n.a. |
| S 18 | 23 30 | 19 37 | 1 24 | 21 26 | 1 1 | 24 47 | 1 13 | 23 51 | 0 45 | 16 54 | 0 44 | 22 42 | 0 37 | 21 21 | 0 39 | 2 47 | 1 55 | 0 32 | 13 30 | 13 30 | 12 57 | 2 23 | | n.a. |
| M19 | 23 33 | 23 30 | 2 26 | 21 8 | 1 14 | 24 45 | 1 14 | 23 55 | 0 45 | 16 57 | 0 44 | 22 42 | 0 37 | 21 22 | 0 39 | 2 48 | 1 55 | 0 32 | 13 30 | 13 29 | 12 55 | 2 26 | | n.a. |
| T 20 | 23 36 | 26 21 | 3 22 | 20 50 | 1 28 | 24 42 | 1 16 | 23 59 | 0 46 | 17 0 | 0 44 | 22 43 | 0 38 | 21 22 | 0 39 | 2 48 | 1 55 | 0 32 | 13 30 | 13 27 | 12 54 | 2 30 | | n.a. |
| W21 | 23 38 | 27 51 | 4 9 | 20 32 | 1 42 | 24 39 | 1 17 | 24 2 | 0 46 | 17 4 | 0 44 | 22 44 | 0 38 | 21 23 | 0 39 | 2 48 | 1 55 | 0 32 | 13 30 | 13 25 | 12 53 | 2 33 | | n.a. |
| T 22 | 23 40 | 27 48 | 4 43 | 20 15 | 1 55 | 24 34 | 1 18 | 24 6 | 0 47 | 17 7 | 0 44 | 22 45 | 0 38 | 21 23 | 0 39 | 2 48 | 1 55 | 0 32 | 13 30 | 13 22 | 12 52 | 2 37 | | n.a. |
| F 23 | 23 41 | 26 7 | 5 2 | 19 58 | 2 9 | 24 29 | 1 19 | 24 9 | 0 47 | 17 11 | 0 44 | 22 45 | 0 38 | 21 23 | 0 39 | 2 49 | 1 55 | 0 32 | 13 31 | 13 19 | 12 51 | 2 40 | | n.a. |
| S 24 | 23 42 | 22 54 | 5 5 | 19 42 | 2 23 | 24 23 | 1 21 | 24 12 | 0 48 | 17 14 | 0 44 | 22 46 | 0 38 | 21 24 | 0 39 | 2 49 | 1 55 | 0 32 | 13 31 | 13 16 | 12 50 | 2 43 | | n.a. |
| S 25 | 23 42 | 18 21 | 4 50 | 19 27 | 2 37 | 24 17 | 1 22 | 24 15 | 0 48 | 17 17 | 0 44 | 22 47 | 0 38 | 21 24 | 0 39 | 2 49 | 1 55 | 0 32 | 13 31 | 13 14 | 12 49 | 2 47 | | n.a. |
| M26 | 23 43 | 12 47 | 4 17 | 19 12 | 2 51 | 24 9 | 1 23 | 24 18 | 0 48 | 17 21 | 0 44 | 22 47 | 0 38 | 21 25 | 0 39 | 2 50 | 1 56 | 0 32 | 13 31 | 13 13 | 12 48 | 2 50 | | n.a. |
| T 27 | 23 42 | 6 32 | 3 29 | 18 59 | 3 5 | 24 1 | 1 24 | 24 21 | 0 49 | 17 24 | 0 44 | 22 48 | 0 38 | 21 25 | 0 39 | 2 50 | 1 56 | 0 32 | 13 31 | 13 12 | 12 47 | 2 53 | | n.a. |
| W28 | 23 41 | 0n 4 | 2 28 | 18 46 | 3 18 | 23 52 | 1 25 | 24 23 | 0 49 | 17 27 | 0 44 | 22 49 | 0 39 | 21 26 | 0 39 | 2 50 | 1 56 | 0 32 | 13 32 | 13 12 | 12 46 | 2 57 | | n.a. |
| T 29 | 23 40 | 6 41 | 1 18 | 18 35 | 3 31 | 23 43 | 1 26 | 24 25 | 0 50 | 17 30 | 0 44 | 22 50 | 0 39 | 21 26 | 0 39 | 2 50 | 1 56 | 0 32 | 13 32 | 13 12 | 12 44 | 3 0 | | n.a. |
| F 30 | 23n39 | 13n 0 | 0s 3 | 18n25 | 3s43 | 23n33 | 1n26 | 24n27 | 0n50 | 17n33 | 0s44 | 22s50 | 0s39 | 21s27 | 0s39 | 2n50 | 1s56 | 0s31 | 13s32 | 13n12 | 12n43 | 3s 4 | | n.a. |

Julian Day Number = 1685049.5, Delta T = 03h13m27s
Ecliptic obliquity = 23°42'33, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°26'25, Lahiri = - 5°19'24 Julian Calendar 1 June 100 BCE == Greg. Calendar 30 May 100 BCE

The year -99 astronomical counting style corresponds to year 100 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 100 BCE
# geocentric

## JULY 100 BCE (-99) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 24 6 | 5♋ 4'03 | 18♉18 | 20°R25 | 21♋45 | 25♊45 | 21♉24 | 19°R56 | 27°R55 | 11♈33 | 1♉39 | 4°R36 | 3♉10 | 12♎ 4 | n.a. | S 1 |
| S 2 | 18 28 3 | 6° 1'26 | 2♊25 | 20♋ 1 | 22°59 | 26°23 | 21°36 | 19♑51 | 27♑53 | 11°33 | 1°40 | 4♉33 | 3° 6 | 12°11 | n.a. | S 2 |
| M 3 | 18 32 0 | 6°58'50 | 16°25 | 19°32 | 24°12 | 27° 2 | 21°47 | 19°47 | 27°51 | 11°34 | 1°41 | 4°28 | 3° 3 | 12°17 | n.a. | M 3 |
| T 4 | 18 35 56 | 7°56'15 | 0♋15 | 18°59 | 25°26 | 27°41 | 21°59 | 19°43 | 27°48 | 11°34 | 1°41 | 4°20 | 3° 0 | 12°24 | n.a. | T 4 |
| W 5 | 18 39 53 | 8°53'41 | 13°51 | 18°21 | 26°40 | 28°19 | 22°10 | 19°38 | 27°46 | 11°35 | 1°42 | 4°10 | 2°57 | 12°31 | n.a. | W 5 |
| T 6 | 18 43 49 | 9°51'08 | 27°11 | 17°41 | 27°53 | 28°58 | 22°22 | 19°34 | 27°44 | 11°35 | 1°43 | 3°59 | 2°54 | 12°37 | n.a. | T 6 |
| F 7 | 18 47 46 | 10°48'36 | 10♌12 | 16°57 | 29° 7 | 29°36 | 22°33 | 19°29 | 27°42 | 11°36 | 1°43 | 3°48 | 2°51 | 12°44 | n.a. | F 7 |
| S 8 | 18 51 42 | 11°46'04 | 22°54 | 16°12 | 0♌21 | 0♋15 | 22°44 | 19°25 | 27°39 | 11°36 | 1°44 | 3°38 | 2°47 | 12°51 | n.a. | S 8 |
| S 9 | 18 55 39 | 12°43'34 | 5♍18 | 15°24 | 1°34 | 0°54 | 22°55 | 19°20 | 27°37 | 11°36 | 1°44 | 3°31 | 2°44 | 12°57 | n.a. | S 9 |
| M10 | 18 59 36 | 13°41'05 | 17°27 | 14°37 | 2°48 | 1°32 | 23° 7 | 19°16 | 27°35 | 11°37 | 1°45 | 3°25 | 2°41 | 13° 4 | n.a. | M10 |
| T 11 | 19 3 32 | 14°38'37 | 29°24 | 13°49 | 4° 2 | 2°11 | 23°18 | 19°12 | 27°33 | 11°37 | 1°46 | 3°22 | 2°38 | 13°11 | n.a. | T 11 |
| W12 | 19 7 29 | 15°36'10 | 11♎15 | 13° 3 | 5°15 | 2°49 | 23°28 | 19° 7 | 27°30 | 11°37 | 1°46 | 3°D21 | 2°35 | 13°17 | n.a. | W12 |
| T 13 | 19 11 25 | 16°33'43 | 23° 4 | 12°19 | 6°29 | 3°28 | 23°39 | 19° 3 | 27°28 | 11°37 | 1°46 | 3°21 | 2°31 | 13°24 | n.a. | T 13 |
| F 14 | 19 15 22 | 17°31'18 | 4♏57 | 11°38 | 7°43 | 4° 6 | 23°50 | 18°58 | 27°26 | 11°37 | 1°47 | 3°R21 | 2°28 | 13°31 | n.a. | F 14 |
| S 15 | 19 19 18 | 18°28'54 | 16°58 | 11° 0 | 8°56 | 4°44 | 24° 1 | 18°54 | 27°23 | 11°38 | 1°47 | 3°21 | 2°25 | 13°37 | n.a. | S 15 |
| S 16 | 19 23 15 | 19°26'31 | 29°14 | 10°28 | 10°10 | 5°23 | 24°11 | 18°49 | 27°21 | 11°38 | 1°48 | 3°18 | 2°22 | 13°44 | n.a. | S 16 |
| M17 | 19 27 11 | 20°24'10 | 11♐48 | 10° 0 | 11°24 | 6° 1 | 24°21 | 18°44 | 27°18 | 11°38 | 1°48 | 3°13 | 2°19 | 13°51 | n.a. | M17 |
| T 18 | 19 31 8 | 21°21'49 | 24°43 | 9°39 | 12°37 | 6°40 | 24°32 | 18°40 | 27°16 | 11°38 | 1°49 | 3° 6 | 2°16 | 13°57 | n.a. | T 18 |
| W19 | 19 35 5 | 22°19'30 | 7♑59 | 9°24 | 13°51 | 7°18 | 24°42 | 18°35 | 27°14 | 11°R38 | 1°49 | 2°56 | 2°12 | 14° 4 | n.a. | W19 |
| T 20 | 19 39 1 | 23°17'13 | 21°36 | 9°16 | 15° 4 | 7°56 | 24°52 | 18°31 | 27°11 | 11°38 | 1°49 | 2°44 | 2° 9 | 14°11 | n.a. | T 20 |
| F 21 | 19 42 58 | 24°14'57 | 5♒31 | 9°D15 | 16°18 | 8°34 | 25° 2 | 18°27 | 27° 9 | 11°38 | 1°50 | 2°33 | 2° 6 | 14°17 | n.a. | F 21 |
| S 22 | 19 46 54 | 25°12'42 | 19°39 | 9°22 | 17°31 | 9°13 | 25°12 | 18°22 | 27° 7 | 11°38 | 1°50 | 2°22 | 2° 3 | 14°24 | n.a. | S 22 |
| S 23 | 19 50 51 | 26°10'29 | 3♓56 | 9°36 | 18°45 | 9°51 | 25°22 | 18°18 | 27° 4 | 11°37 | 1°50 | 2°12 | 2° 0 | 14°30 | n.a. | S 23 |
| M24 | 19 54 47 | 27° 8'18 | 18°15 | 9°58 | 19°59 | 10°29 | 25°32 | 18°13 | 27° 2 | 11°37 | 1°50 | 2° 6 | 1°57 | 14°37 | n.a. | M24 |
| T 25 | 19 58 44 | 28° 6'08 | 2♈34 | 10°28 | 21°12 | 11° 7 | 25°41 | 18° 9 | 26°59 | 11°37 | 1°51 | 2° 2 | 1°53 | 14°44 | n.a. | T 25 |
| W26 | 20 2 40 | 29° 4'00 | 16°48 | 11° 5 | 22°26 | 11°46 | 25°51 | 18° 4 | 26°57 | 11°37 | 1°51 | 2° 1 | 1°50 | 14°50 | n.a. | W26 |
| T 27 | 20 6 37 | 0♌ 1'55 | 0♉55 | 11°50 | 23°39 | 12°24 | 26° 0 | 18° 0 | 26°55 | 11°37 | 1°51 | 2° 0 | 1°47 | 14°57 | n.a. | T 27 |
| F 28 | 20 10 34 | 0°59'51 | 14°56 | 12°42 | 24°53 | 13° 2 | 26° 9 | 17°56 | 26°52 | 11°36 | 1°51 | 2° 0 | 1°44 | 15° 4 | n.a. | F 28 |
| S 29 | 20 14 30 | 1°57'49 | 28°48 | 13°41 | 26° 6 | 13°40 | 26°18 | 17°51 | 26°50 | 11°36 | 1°51 | 1°59 | 1°41 | 15°10 | n.a. | S 29 |
| S 30 | 20 18 27 | 2°55'50 | 12♊33 | 14°47 | 27°20 | 14°18 | 26°27 | 17°47 | 26°47 | 11°36 | 1°52 | 1°55 | 1°37 | 15°17 | n.a. | S 30 |
| M31 | 20 22 23 | 3♌53'52 | 26♊ 9 | 16♋ 0 | 28♌33 | 14♋57 | 26♉36 | 17♑43 | 26♑45 | 11♈35 | 1♉52 | 1♉48 | 1♉34 | 15♎24 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23n37 | 18n38 | 1n13 | 18n17 | 3s54 | 23n22 | 1n27 | 24n29 | 0n51 | 17n37 | 0s44 | 22s51 | 0s39 | 21s27 | 0s39 | 2n50 | 1s56 | 0s31 | 13s32 | 13n12 | 12n42 | 3s 7 | | n.a. |
| S 2 | 23 34 | 23 12 | 2 23 | 18 10 | 4 5 | 23 10 | 1 28 | 24 31 | 0 51 | 17 40 | 0 44 | 22 52 | 0 39 | 21 27 | 0 39 | 2 51 | 1 56 | 0 31 | 13 32 | 13 11 | 12 41 | 3 10 | | n.a. |
| M 3 | 23 31 | 26 23 | 3 24 | 18 4 | 4 15 | 22 58 | 1 29 | 24 32 | 0 51 | 17 43 | 0 44 | 22 53 | 0 39 | 21 28 | 0 39 | 2 51 | 1 56 | 0 31 | 13 33 | 13 9 | 12 40 | 3 14 | | n.a. |
| T 4 | 23 28 | 27 54 | 4 12 | 18 0 | 4 23 | 22 45 | 1 29 | 24 33 | 0 52 | 17 46 | 0 44 | 22 53 | 0 39 | 21 28 | 0 39 | 2 51 | 1 56 | 0 31 | 13 33 | 13 6 | 12 39 | 3 17 | | n.a. |
| W 5 | 23 24 | 27 41 | 4 44 | 17 58 | 4 30 | 22 32 | 1 30 | 24 34 | 0 52 | 17 49 | 0 44 | 22 54 | 0 39 | 21 29 | 0 39 | 2 51 | 1 56 | 0 31 | 13 33 | 13 3 | 12 38 | 3 21 | | n.a. |
| T 6 | 23 20 | 25 52 | 5 1 | 17 58 | 4 36 | 22 17 | 1 30 | 24 35 | 0 53 | 17 52 | 0 44 | 22 55 | 0 39 | 21 29 | 0 39 | 2 51 | 1 56 | 0 31 | 13 33 | 12 59 | 12 37 | 3 24 | | n.a. |
| F 7 | 23 16 | 22 42 | 5 1 | 17 59 | 4 40 | 22 2 | 1 30 | 24 36 | 0 53 | 17 55 | 0 44 | 22 56 | 0 40 | 21 30 | 0 39 | 2 51 | 1 56 | 0 31 | 13 34 | 12 56 | 12 36 | 3 27 | | n.a. |
| S 8 | 23 11 | 18 32 | 4 46 | 18 2 | 4 43 | 21 47 | 1 31 | 24 36 | 0 53 | 17 58 | 0 44 | 22 56 | 0 40 | 21 30 | 0 39 | 2 51 | 1 56 | 0 31 | 13 34 | 12 52 | 12 35 | 3 31 | | n.a. |
| S 9 | 23 6 | 13 40 | 4 18 | 18 6 | 4 44 | 21 31 | 1 31 | 24 36 | 0 54 | 18 0 | 0 44 | 22 57 | 0 40 | 21 31 | 0 39 | 2 51 | 1 56 | 0 32 | 13 34 | 12 50 | 12 34 | 3 34 | | n.a. |
| M10 | 23 0 | 8 22 | 3 39 | 18 12 | 4 43 | 21 14 | 1 31 | 24 36 | 0 54 | 18 3 | 0 44 | 22 58 | 0 40 | 21 31 | 0 39 | 2 51 | 1 56 | 0 32 | 13 34 | 12 48 | 12 32 | 3 37 | | n.a. |
| T 11 | 22 54 | 2 50 | 2 50 | 18 20 | 4 40 | 20 57 | 1 31 | 24 36 | 0 55 | 18 6 | 0 44 | 22 59 | 0 40 | 21 32 | 0 39 | 2 52 | 1 57 | 0 32 | 13 35 | 12 47 | 12 31 | 3 41 | | n.a. |
| W12 | 22 47 | 2s45 | 1 55 | 18 29 | 4 36 | 20 39 | 1 31 | 24 36 | 0 55 | 18 9 | 0 44 | 22 59 | 0 40 | 21 32 | 0 39 | 2 52 | 1 57 | 0 32 | 13 35 | 12 46 | 12 30 | 3 44 | | n.a. |
| T 13 | 22 40 | 8 13 | 0 54 | 18 40 | 4 29 | 20 20 | 1 31 | 24 35 | 0 55 | 18 11 | 0 44 | 23 0 | 0 40 | 21 33 | 0 39 | 2 52 | 1 57 | 0 32 | 13 35 | 12 46 | 12 29 | 3 48 | | n.a. |
| F 14 | 22 33 | 13 27 | 0s 8 | 18 51 | 4 21 | 20 1 | 1 31 | 24 35 | 0 56 | 18 14 | 0 44 | 23 1 | 0 40 | 21 33 | 0 39 | 2 52 | 1 57 | 0 32 | 13 35 | 12 46 | 12 28 | 3 51 | | n.a. |
| S 15 | 22 25 | 18 14 | 1 12 | 19 4 | 4 11 | 19 41 | 1 31 | 24 34 | 0 56 | 18 17 | 0 44 | 23 2 | 0 40 | 21 34 | 0 39 | 2 52 | 1 57 | 0 32 | 13 36 | 12 46 | 12 27 | 3 54 | | n.a. |
| S 16 | 22 17 | 22 22 | 2 13 | 19 18 | 4 0 | 19 21 | 1 31 | 24 33 | 0 57 | 18 19 | 0 44 | 23 2 | 0 40 | 21 34 | 0 39 | 2 52 | 1 57 | 0 32 | 13 36 | 12 45 | 12 26 | 3 58 | | n.a. |
| M17 | 22 8 | 25 34 | 3 9 | 19 33 | 3 48 | 19 0 | 1 30 | 24 31 | 0 57 | 18 22 | 0 44 | 23 3 | 0 40 | 21 34 | 0 39 | 2 51 | 1 57 | 0 32 | 13 36 | 12 44 | 12 25 | 4 1 | | n.a. |
| T 18 | 21 59 | 27 33 | 3 57 | 19 48 | 3 34 | 18 39 | 1 30 | 24 30 | 0 57 | 18 25 | 0 44 | 23 4 | 0 41 | 21 35 | 0 39 | 2 51 | 1 57 | 0 32 | 13 36 | 12 41 | 12 24 | 4 4 | | n.a. |
| W19 | 21 50 | 28 0 | 4 33 | 20 4 | 3 19 | 18 17 | 1 29 | 24 28 | 0 58 | 18 27 | 0 44 | 23 4 | 0 41 | 21 35 | 0 39 | 2 51 | 1 57 | 0 32 | 13 36 | 12 38 | 12 22 | 4 8 | | n.a. |
| T 20 | 21 40 | 26 48 | 4 55 | 20 20 | 3 4 | 17 55 | 1 29 | 24 26 | 0 58 | 18 29 | 0 44 | 23 5 | 0 41 | 21 36 | 0 39 | 2 51 | 1 57 | 0 32 | 13 37 | 12 34 | 12 21 | 4 11 | | n.a. |
| F 21 | 21 30 | 23 57 | 5 0 | 20 36 | 2 48 | 17 32 | 1 28 | 24 24 | 0 59 | 18 32 | 0 44 | 23 6 | 0 41 | 21 36 | 0 39 | 2 51 | 1 57 | 0 33 | 13 37 | 12 29 | 12 20 | 4 15 | | n.a. |
| S 22 | 21 20 | 19 37 | 4 47 | 20 52 | 2 31 | 17 9 | 1 28 | 24 22 | 0 59 | 18 34 | 0 44 | 23 6 | 0 41 | 21 37 | 0 39 | 2 51 | 1 57 | 0 33 | 13 37 | 12 26 | 12 19 | 4 18 | | n.a. |
| S 23 | 21 9 | 14 9 | 4 16 | 21 8 | 2 14 | 16 45 | 1 27 | 24 20 | 0 59 | 18 37 | 0 44 | 23 7 | 0 41 | 21 37 | 0 39 | 2 51 | 1 57 | 0 33 | 13 37 | 12 22 | 12 18 | 4 21 | | n.a. |
| M24 | 20 58 | 7 54 | 3 29 | 21 23 | 1 57 | 16 21 | 1 26 | 24 17 | 1 0 | 18 39 | 0 44 | 23 8 | 0 41 | 21 38 | 0 39 | 2 51 | 1 57 | 0 33 | 13 38 | 12 20 | 12 17 | 4 25 | | n.a. |
| T 25 | 20 46 | 1 15 | 2 29 | 21 38 | 1 40 | 15 56 | 1 25 | 24 14 | 1 0 | 18 41 | 0 44 | 23 9 | 0 41 | 21 38 | 0 39 | 2 51 | 1 57 | 0 33 | 13 38 | 12 19 | 12 16 | 4 28 | | n.a. |
| W26 | 20 35 | 5n27 | 1 20 | 21 52 | 1 23 | 15 31 | 1 24 | 24 11 | 1 0 | 18 44 | 0 44 | 23 9 | 0 41 | 21 39 | 0 39 | 2 51 | 1 58 | 0 33 | 13 38 | 12 18 | 12 15 | 4 31 | | n.a. |
| T 27 | 20 22 | 11 50 | 0 6 | 22 5 | 1 6 | 15 6 | 1 23 | 24 8 | 1 1 | 18 46 | 0 44 | 23 10 | 0 41 | 21 39 | 0 39 | 2 50 | 1 58 | 0 33 | 13 39 | 12 18 | 12 14 | 4 35 | | n.a. |
| F 28 | 20 10 | 17 34 | 1n 8 | 22 16 | 0 50 | 14 40 | 1 22 | 24 5 | 1 1 | 18 48 | 0 44 | 23 11 | 0 41 | 21 40 | 0 39 | 2 50 | 1 58 | 0 34 | 13 39 | 12 18 | 12 13 | 4 38 | | n.a. |
| S 29 | 19 57 | 22 20 | 2 17 | 22 26 | 0 34 | 14 14 | 1 21 | 24 1 | 1 2 | 18 50 | 0 44 | 23 11 | 0 41 | 21 40 | 0 39 | 2 50 | 1 58 | 0 34 | 13 39 | 12 18 | 12 11 | 4 42 | | n.a. |
| S 30 | 19 43 | 25 48 | 3 17 | 22 34 | 0 19 | 13 47 | 1 20 | 23 57 | 1 2 | 18 52 | 0 44 | 23 12 | 0 41 | 21 41 | 0 39 | 2 50 | 1 58 | 0 34 | 13 39 | 12 16 | 12 10 | 4 45 | | n.a. |
| M31 | 19n30 | 27n44 | 4n 5 | 22n40 | 0s 4 | 13n20 | 1n18 | 23n54 | 1n 2 | 18n54 | 0s44 | 23s12 | 0s42 | 21s41 | 0s39 | 2n50 | 1s58 | 0s34 | 13s40 | 12n14 | 12n 9 | 4s48 | | n.a. |

Julian Day Number = 1685079.5, Delta T = 03h13m26s
Ecliptic obliquity = 23°42'33, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°26'20, Lahiri = - 5°19'20 Julian Calendar 1 July 100 BCE == Greg. Calendar 29 June 100 BCE

The year -99 astronomical counting style corresponds to year 100 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 100 BCE
# geocentric

## AUGUST 100 BCE (-99) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 26 20 | 4♌51'56 | 9♋35 | 17♋18 | 29♌47 | 15♋35 | 26♉45 | 17°R39 | 26°R43 | 11°R35 | 1♉52 | 1°R39 | 1♉31 | 15♎30 | n.a. | T 1 |
| W 2 | 20 30 16 | 5°50'03 | 22°49 | 18°42 | 1♍ 0 | 16°13 | 26°54 | 17♏34 | 26♏40 | 11♈34 | 1°52 | 1♉27 | 1°28 | 15°37 | n.a. | W 2 |
| T 3 | 20 34 13 | 6°48'11 | 5♌50 | 20°11 | 2°14 | 16°51 | 27° 2 | 17°30 | 26°38 | 11°34 | 1°52 | 1°14 | 1°25 | 15°44 | n.a. | T 3 |
| F 4 | 20 38 9 | 7°46'20 | 18°36 | 21°44 | 3°27 | 17°29 | 27°11 | 17°26 | 26°36 | 11°33 | 1°52 | 1° 1 | 1°22 | 15°50 | n.a. | F 4 |
| S 5 | 20 42 6 | 8°44'32 | 1♍ 8 | 23°22 | 4°41 | 18° 7 | 27°19 | 17°22 | 26°33 | 11°33 | 1°R52 | 0°49 | 1°18 | 15°57 | n.a. | S 5 |
| S 6 | 20 46 3 | 9°42'45 | 13°24 | 25° 4 | 5°54 | 18°45 | 27°27 | 17°18 | 26°31 | 11°32 | 1°52 | 0°40 | 1°15 | 16° 4 | n.a. | S 6 |
| M 7 | 20 49 59 | 10°41'00 | 25°29 | 26°48 | 7° 7 | 19°23 | 27°35 | 17°14 | 26°29 | 11°32 | 1°52 | 0°32 | 1°12 | 16°10 | n.a. | M 7 |
| T 8 | 20 53 56 | 11°39'16 | 7♎23 | 28°35 | 8°21 | 20° 1 | 27°43 | 17°10 | 26°26 | 11°31 | 1°52 | 0°28 | 1° 9 | 16°17 | n.a. | T 8 |
| W 9 | 20 57 52 | 12°37'34 | 19°12 | 0♌24 | 9°34 | 20°39 | 27°50 | 17° 6 | 26°24 | 11°30 | 1°52 | 0°26 | 1° 6 | 16°24 | n.a. | W 9 |
| T 10 | 21 1 49 | 13°35'54 | 0♏59 | 2°15 | 10°48 | 21°17 | 27°58 | 17° 3 | 26°22 | 11°30 | 1°52 | 0°D26 | 1° 2 | 16°30 | n.a. | T 10 |
| F 11 | 21 5 45 | 14°34'16 | 12°50 | 4° 7 | 12° 1 | 21°55 | 28° 5 | 16°59 | 26°20 | 11°29 | 1°52 | 0°R26 | 0°59 | 16°37 | n.a. | F 11 |
| S 12 | 21 9 42 | 15°32'39 | 24°51 | 6° 1 | 13°14 | 22°33 | 28°13 | 16°55 | 26°17 | 11°28 | 1°51 | 0°25 | 0°56 | 16°43 | n.a. | S 12 |
| S 13 | 21 13 38 | 16°31'04 | 7♐ 8 | 7°55 | 14°28 | 23°11 | 28°20 | 16°52 | 26°15 | 11°27 | 1°51 | 0°24 | 0°53 | 16°50 | n.a. | S 13 |
| M14 | 21 17 35 | 17°29'31 | 19°44 | 9°49 | 15°41 | 23°49 | 28°27 | 16°48 | 26°13 | 11°26 | 1°51 | 0°20 | 0°50 | 16°57 | n.a. | M14 |
| T 15 | 21 21 32 | 18°28'00 | 2♑43 | 11°43 | 16°54 | 24°27 | 28°34 | 16°45 | 26°11 | 11°26 | 1°51 | 0°13 | 0°47 | 17° 3 | n.a. | T 15 |
| W16 | 21 25 28 | 19°26'30 | 16° 9 | 13°37 | 18° 7 | 25° 5 | 28°40 | 16°41 | 26° 9 | 11°25 | 1°51 | 0° 4 | 0°43 | 17°10 | n.a. | W16 |
| T 17 | 21 29 25 | 20°25'02 | 29°59 | 15°31 | 19°21 | 25°42 | 28°47 | 16°38 | 26° 6 | 11°24 | 1°50 | 29♈54 | 0°40 | 17°17 | n.a. | T 17 |
| F 18 | 21 33 21 | 21°23'36 | 14♒13 | 17°24 | 20°34 | 26°20 | 28°53 | 16°34 | 26° 4 | 11°23 | 1°50 | 29°43 | 0°37 | 17°23 | n.a. | F 18 |
| S 19 | 21 37 18 | 22°22'12 | 28°45 | 19°17 | 21°47 | 26°58 | 29° 0 | 16°31 | 26° 2 | 11°22 | 1°50 | 29°33 | 0°34 | 17°30 | n.a. | S 19 |
| S 20 | 21 41 14 | 23°20'50 | 13♓27 | 21° 9 | 23° 0 | 27°36 | 29° 6 | 16°28 | 26° 0 | 11°21 | 1°49 | 29°25 | 0°31 | 17°37 | n.a. | S 20 |
| M21 | 21 45 11 | 24°19'30 | 28°12 | 23° 1 | 24°13 | 28°14 | 29°12 | 16°25 | 25°58 | 11°20 | 1°49 | 29°19 | 0°28 | 17°43 | n.a. | M21 |
| T 22 | 21 49 7 | 25°18'13 | 12♈52 | 24°51 | 25°26 | 28°52 | 29°17 | 16°22 | 25°56 | 11°19 | 1°49 | 29°16 | 0°24 | 17°50 | n.a. | T 22 |
| W23 | 21 53 4 | 26°16'57 | 27°23 | 26°41 | 26°40 | 29°29 | 29°23 | 16°19 | 25°54 | 11°18 | 1°48 | 29°D15 | 0°21 | 17°57 | n.a. | W23 |
| T 24 | 21 57 0 | 27°15'44 | 11♉40 | 28°30 | 27°53 | 0♌ 7 | 29°28 | 16°16 | 25°52 | 11°17 | 1°48 | 29°15 | 0°18 | 18° 3 | n.a. | T 24 |
| F 25 | 22 0 57 | 28°14'34 | 25°42 | 0♍18 | 29° 6 | 0°45 | 29°34 | 16°13 | 25°50 | 11°16 | 1°48 | 29°R16 | 0°15 | 18°10 | n.a. | F 25 |
| S 26 | 22 4 54 | 29°13'26 | 9♊29 | 2° 5 | 0♎19 | 1°23 | 29°39 | 16°11 | 25°49 | 11°15 | 1°47 | 29°15 | 0°12 | 18°17 | n.a. | S 26 |
| S 27 | 22 8 50 | 0♍12'20 | 23° 1 | 3°51 | 1°32 | 2° 0 | 29°44 | 16° 8 | 25°47 | 11°13 | 1°47 | 29°13 | 0° 8 | 18°23 | n.a. | S 27 |
| M28 | 22 12 47 | 1°11'17 | 6♋19 | 5°36 | 2°45 | 2°38 | 29°48 | 16° 6 | 25°45 | 11°12 | 1°46 | 29° 8 | 0° 5 | 18°30 | n.a. | M28 |
| T 29 | 22 16 43 | 2°10'16 | 19°24 | 7°20 | 3°58 | 3°16 | 29°53 | 16° 3 | 25°43 | 11°11 | 1°46 | 29° 1 | 0° 2 | 18°37 | n.a. | T 29 |
| W30 | 22 20 40 | 3° 9'18 | 2♌17 | 9° 4 | 5°11 | 3°53 | 29°57 | 16° 1 | 25°41 | 11°10 | 1°45 | 28°52 | 29♈59 | 18°43 | n.a. | W30 |
| T 31 | 22 24 36 | 4♍ 8'22 | 14♌58 | 10♍46 | 6♎24 | 4♌31 | 0♊ 2 | 15♏59 | 25♏40 | 11♈ 8 | 1♉45 | 28♈42 | 29♈56 | 18♎50 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| T 1 | 19n16 | 27n59 | 4n39 | 22n44 | 0n10 | 12n53 | 1n17 | 23n50 | 1n 3 | 18n56 | 0s44 | 23s13 | 0s42 | 21s42 | 0s39 | 2n49 | 1s58 | 0s34 | 13s40 | 12n11 | 12n 8 | 4s52 | | | n.a. |
| W 2 | 19 2 | 26 38 | 4 57 | 22 46 | 0 23 | 12 25 | 1 16 | 23 45 | 1 3 | 18 58 | 0 44 | 23 14 | 0 42 | 21 42 | 0 39 | 2 49 | 1 58 | 0 35 | 13 40 | 12 7 | 12 7 | 4 55 | | | n.a. |
| T 3 | 18 47 | 23 51 | 4 59 | 22 45 | 0 35 | 11 57 | 1 14 | 23 41 | 1 3 | 19 0 | 0 44 | 23 14 | 0 42 | 21 43 | 0 39 | 2 49 | 1 58 | 0 35 | 13 40 | 12 2 | 12 6 | 4 58 | | | n.a. |
| F 4 | 18 32 | 19 57 | 4 46 | 22 42 | 0 46 | 11 29 | 1 12 | 23 36 | 1 4 | 19 2 | 0 44 | 23 15 | 0 42 | 21 43 | 0 39 | 2 49 | 1 58 | 0 35 | 13 41 | 11 58 | 12 5 | 5 2 | | | n.a. |
| S 5 | 18 17 | 15 14 | 4 20 | 22 35 | 0 57 | 11 0 | 1 11 | 23 32 | 1 4 | 19 4 | 0 44 | 23 16 | 0 42 | 21 43 | 0 39 | 2 48 | 1 58 | 0 35 | 13 41 | 11 53 | 12 4 | 5 5 | | | n.a. |
| S 6 | 18 1 | 10 0 | 3 42 | 22 27 | 1 6 | 10 31 | 1 9 | 23 27 | 1 4 | 19 6 | 0 44 | 23 16 | 0 42 | 21 44 | 0 39 | 2 48 | 1 58 | 0 36 | 13 41 | 11 50 | 12 2 | 5 8 | | | n.a. |
| M 7 | 17 45 | 4 28 | 2 54 | 22 15 | 1 14 | 10 2 | 1 7 | 23 22 | 1 5 | 19 8 | 0 44 | 23 17 | 0 42 | 21 44 | 0 39 | 2 48 | 1 58 | 0 36 | 13 41 | 11 47 | 12 1 | 5 12 | | | n.a. |
| T 8 | 17 29 | 1s 9 | 1 59 | 22 1 | 1 22 | 9 33 | 1 5 | 23 16 | 1 5 | 19 9 | 0 44 | 23 17 | 0 42 | 21 45 | 0 39 | 2 48 | 1 58 | 0 36 | 13 42 | 11 46 | 12 0 | 5 15 | | | n.a. |
| W 9 | 17 13 | 6 41 | 0 59 | 21 44 | 1 28 | 9 3 | 1 4 | 23 11 | 1 6 | 19 11 | 0 44 | 23 18 | 0 42 | 21 45 | 0 39 | 2 47 | 1 58 | 0 36 | 13 42 | 11 45 | 11 59 | 5 19 | | | n.a. |
| T 10 | 16 56 | 12 0 | 0s 3 | 21 24 | 1 34 | 8 33 | 1 2 | 23 5 | 1 6 | 19 13 | 0 44 | 23 18 | 0 42 | 21 46 | 0 39 | 2 47 | 1 58 | 0 37 | 13 42 | 11 45 | 11 58 | 5 22 | | | n.a. |
| F 11 | 16 39 | 16 54 | 1 6 | 21 2 | 1 38 | 8 3 | 1 0 | 23 0 | 1 6 | 19 15 | 0 44 | 23 19 | 0 42 | 21 46 | 0 39 | 2 47 | 1 59 | 0 37 | 13 42 | 11 45 | 11 57 | 5 25 | | | n.a. |
| S 12 | 16 21 | 21 14 | 2 6 | 20 38 | 1 42 | 7 33 | 0 58 | 22 54 | 1 7 | 19 16 | 0 44 | 23 19 | 0 42 | 21 46 | 0 39 | 2 46 | 1 59 | 0 37 | 13 43 | 11 45 | 11 56 | 5 29 | | | n.a. |
| S 13 | 16 4 | 24 44 | 3 2 | 20 11 | 1 45 | 7 2 | 0 55 | 22 48 | 1 7 | 19 18 | 0 44 | 23 20 | 0 42 | 21 47 | 0 39 | 2 46 | 1 59 | 0 37 | 13 43 | 11 44 | 11 55 | 5 32 | | | n.a. |
| M14 | 15 46 | 27 8 | 3 51 | 19 42 | 1 47 | 6 31 | 0 53 | 22 41 | 1 7 | 19 19 | 0 44 | 23 20 | 0 42 | 21 47 | 0 39 | 2 45 | 1 59 | 0 38 | 13 43 | 11 43 | 11 54 | 5 35 | | | n.a. |
| T 15 | 15 28 | 28 10 | 4 29 | 19 12 | 1 48 | 6 1 | 0 51 | 22 35 | 1 8 | 19 21 | 0 44 | 23 21 | 0 42 | 21 48 | 0 39 | 2 45 | 1 59 | 0 38 | 13 43 | 11 41 | 11 52 | 5 39 | | | n.a. |
| W16 | 15 9 | 27 35 | 4 54 | 18 40 | 1 49 | 5 29 | 0 49 | 22 28 | 1 8 | 19 22 | 0 44 | 23 21 | 0 42 | 21 48 | 0 39 | 2 45 | 1 59 | 0 38 | 13 44 | 11 37 | 11 51 | 5 42 | | | n.a. |
| T 17 | 14 51 | 25 18 | 5 3 | 18 6 | 1 49 | 4 58 | 0 46 | 22 22 | 1 8 | 19 24 | 0 44 | 23 22 | 0 43 | 21 48 | 0 39 | 2 44 | 1 59 | 0 39 | 13 44 | 11 34 | 11 50 | 5 45 | | | n.a. |
| F 18 | 14 32 | 21 25 | 4 53 | 17 30 | 1 48 | 4 27 | 0 44 | 22 15 | 1 9 | 19 25 | 0 44 | 23 22 | 0 43 | 21 49 | 0 39 | 2 44 | 1 59 | 0 39 | 13 44 | 11 30 | 11 49 | 5 49 | | | n.a. |
| S 19 | 14 13 | 16 10 | 4 25 | 16 54 | 1 47 | 3 56 | 0 41 | 22 8 | 1 9 | 19 26 | 0 44 | 23 23 | 0 43 | 21 49 | 0 39 | 2 43 | 1 59 | 0 39 | 13 44 | 11 26 | 11 48 | 5 52 | | | n.a. |
| S 20 | 13 53 | 9 56 | 3 38 | 16 16 | 1 45 | 3 24 | 0 39 | 22 0 | 1 9 | 19 28 | 0 44 | 23 23 | 0 43 | 21 50 | 0 39 | 2 43 | 1 59 | 0 40 | 13 45 | 11 23 | 11 47 | 5 56 | | | n.a. |
| M21 | 13 34 | 3 8 | 2 38 | 15 37 | 1 43 | 2 52 | 0 36 | 21 53 | 1 10 | 19 29 | 0 44 | 23 24 | 0 43 | 21 50 | 0 39 | 2 43 | 1 59 | 0 40 | 13 45 | 11 21 | 11 46 | 5 59 | | | n.a. |
| T 22 | 13 14 | 3n49 | 1 26 | 14 57 | 1 40 | 2 21 | 0 34 | 21 46 | 1 10 | 19 30 | 0 44 | 23 24 | 0 43 | 21 50 | 0 39 | 2 42 | 1 59 | 0 40 | 13 45 | 11 20 | 11 45 | 6 2 | | | n.a. |
| W23 | 12 54 | 10 30 | 0 10 | 14 16 | 1 36 | 1 49 | 0 31 | 21 38 | 1 10 | 19 31 | 0 44 | 23 24 | 0 43 | 21 51 | 0 39 | 2 42 | 1 59 | 0 41 | 13 45 | 11 20 | 11 43 | 6 6 | | | n.a. |
| T 24 | 12 34 | 16 33 | 1n 6 | 13 35 | 1 33 | 1 17 | 0 28 | 21 30 | 1 11 | 19 33 | 0 44 | 23 25 | 0 43 | 21 51 | 0 39 | 2 41 | 1 59 | 0 41 | 13 45 | 11 20 | 11 42 | 6 9 | | | n.a. |
| F 25 | 12 13 | 21 36 | 2 16 | 12 52 | 1 29 | 0 45 | 0 26 | 21 22 | 1 11 | 19 34 | 0 44 | 23 25 | 0 43 | 21 51 | 0 39 | 2 41 | 1 59 | 0 41 | 13 46 | 11 20 | 11 41 | 6 12 | | | n.a. |
| S 26 | 11 52 | 25 23 | 3 18 | 12 10 | 1 24 | 0 13 | 0 23 | 21 14 | 1 11 | 19 35 | 0 45 | 23 26 | 0 43 | 21 52 | 0 39 | 2 40 | 1 59 | 0 42 | 13 46 | 11 20 | 11 40 | 6 16 | | | n.a. |
| S 27 | 11 32 | 27 38 | 4 7 | 11 26 | 1 20 | 0s19 | 0 20 | 21 6 | 1 12 | 19 36 | 0 45 | 23 26 | 0 43 | 21 52 | 0 39 | 2 40 | 1 59 | 0 42 | 13 46 | 11 19 | 11 39 | 6 19 | | | n.a. |
| M28 | 11 10 | 28 15 | 4 42 | 10 43 | 1 15 | 0 51 | 0 17 | 20 57 | 1 12 | 19 37 | 0 45 | 23 26 | 0 43 | 21 52 | 0 39 | 2 39 | 1 59 | 0 42 | 13 46 | 11 17 | 11 38 | 6 22 | | | n.a. |
| T 29 | 10 49 | 27 15 | 5 1 | 9 59 | 1 9 | 1 23 | 0 14 | 20 49 | 1 12 | 19 38 | 0 45 | 23 27 | 0 43 | 21 53 | 0 39 | 2 39 | 1 59 | 0 43 | 13 47 | 11 15 | 11 37 | 6 26 | | | n.a. |
| W30 | 10 28 | 24 49 | 5 5 | 9 15 | 1 4 | 1 55 | 0 11 | 20 40 | 1 12 | 19 39 | 0 45 | 23 27 | 0 43 | 21 53 | 0 39 | 2 38 | 2 0 | 0 43 | 13 47 | 11 12 | 11 36 | 6 29 | | | n.a. |
| T 31 | 10n 6 | 21n11 | 4n53 | 8n30 | 0n58 | 2s26 | 0n 8 | 20n32 | 1n13 | 19n39 | 0s45 | 23s27 | 0s43 | 21s53 | 0s39 | 2n38 | 2s 0 | 0s44 | 13s47 | 11n 8 | 11n34 | 6s32 | | | n.a. |

Julian Day Number = 1685110.5, Delta T = 03h13m25s
Ecliptic obliquity = 23°42'33, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°26'16, Lahiri = - 5°19'16 Julian Calendar 1 Aug. 100 BCE == Greg. Calendar 30 July 100 BCE

The year -99 astronomical counting style corresponds to year 100 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 100 BCE
# geocentric

## SEPTEMBER 100 BCE (-99) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 22 28 33 | 5♍ 7'28 | 27♌26 | 12♍28 | 7♎37 | 5♌ 9 | 0♊ 6 | 15°R56 | 25°R38 | 11°R 7 | 1°R44 | 28°R32 | 29♈53 | 18♎56 | n.a. | F 1 |
| S 2 | 22 32 29 | 6° 6'36 | 9♍44 | 14° 8 | 8°50 | 5°46 | 0°10 | 15♏54 | 25♏36 | 11♈ 6 | 1♉44 | 28♈23 | 29°49 | 19° 3 | n.a. | S 2 |
| S 3 | 22 36 26 | 7° 5'46 | 21°50 | 15°48 | 10° 2 | 6°24 | 0°13 | 15°52 | 25°35 | 11° 5 | 1°43 | 28°15 | 29°46 | 19°10 | n.a. | S 3 |
| M 4 | 22 40 23 | 8° 4'58 | 3♎48 | 17°27 | 11°15 | 7° 2 | 0°17 | 15°50 | 25°33 | 11° 3 | 1°43 | 28°10 | 29°43 | 19°16 | n.a. | M 4 |
| T 5 | 22 44 19 | 9° 4'12 | 15°38 | 19° 5 | 12°28 | 7°39 | 0°20 | 15°49 | 25°32 | 11° 2 | 1°42 | 28° 7 | 29°40 | 19°23 | n.a. | T 5 |
| W 6 | 22 48 16 | 10° 3'28 | 27°25 | 20°42 | 13°41 | 8°17 | 0°23 | 15°47 | 25°30 | 11° 0 | 1°41 | 28°D 6 | 29°37 | 19°30 | n.a. | W 6 |
| T 7 | 22 52 12 | 11° 2'47 | 9♏11 | 22°19 | 14°54 | 8°54 | 0°26 | 15°45 | 25°29 | 10°59 | 1°41 | 28° 6 | 29°34 | 19°36 | n.a. | T 7 |
| F 8 | 22 56 9 | 12° 2'07 | 21° 1 | 23°54 | 16° 7 | 9°32 | 0°29 | 15°44 | 25°27 | 10°58 | 1°40 | 28° 7 | 29°30 | 19°43 | n.a. | F 8 |
| S 9 | 23 0 5 | 13° 1'29 | 3♐ 0 | 25°29 | 17°19 | 10°10 | 0°31 | 15°42 | 25°26 | 10°56 | 1°39 | 28° 9 | 29°27 | 19°50 | n.a. | S 9 |
| S 10 | 23 4 2 | 14° 0'53 | 15°14 | 27° 4 | 18°32 | 10°47 | 0°34 | 15°41 | 25°24 | 10°55 | 1°39 | 28°R 9 | 29°24 | 19°56 | n.a. | S 10 |
| M11 | 23 7 58 | 15° 0'19 | 27°47 | 28°37 | 19°45 | 11°25 | 0°36 | 15°40 | 25°23 | 10°53 | 1°38 | 28° 8 | 29°21 | 20° 3 | n.a. | M11 |
| T 12 | 23 11 55 | 15°59'47 | 10♑44 | 0♎10 | 20°57 | 12° 2 | 0°38 | 15°39 | 25°22 | 10°52 | 1°37 | 28° 6 | 29°18 | 20°10 | n.a. | T 12 |
| W13 | 23 15 52 | 16°59'16 | 24° 7 | 1°42 | 22°10 | 12°40 | 0°40 | 15°38 | 25°21 | 10°50 | 1°36 | 28° 1 | 29°14 | 20°16 | n.a. | W13 |
| T 14 | 23 19 48 | 17°58'48 | 8♒ 0 | 3°13 | 23°22 | 13°17 | 0°41 | 15°37 | 25°19 | 10°49 | 1°36 | 27°56 | 29°11 | 20°23 | n.a. | T 14 |
| F 15 | 23 23 45 | 18°58'21 | 22°19 | 4°43 | 24°35 | 13°54 | 0°43 | 15°36 | 25°18 | 10°47 | 1°35 | 27°49 | 29° 8 | 20°30 | n.a. | F 15 |
| S 16 | 23 27 41 | 19°57'57 | 7♓ 1 | 6°13 | 25°47 | 14°32 | 0°44 | 15°35 | 25°17 | 10°46 | 1°34 | 27°43 | 29° 5 | 20°36 | n.a. | S 16 |
| S 17 | 23 31 38 | 20°57'34 | 22° 0 | 7°42 | 27° 0 | 15° 9 | 0°45 | 15°34 | 25°16 | 10°44 | 1°33 | 27°39 | 29° 2 | 20°43 | n.a. | S 17 |
| M18 | 23 35 34 | 21°57'13 | 7♈ 5 | 9°11 | 28°12 | 15°47 | 0°46 | 15°34 | 25°15 | 10°43 | 1°32 | 27°35 | 28°59 | 20°49 | n.a. | M18 |
| T 19 | 23 39 31 | 22°56'55 | 22° 8 | 10°38 | 29°25 | 16°24 | 0°46 | 15°33 | 25°14 | 10°41 | 1°32 | 27°D34 | 28°55 | 20°56 | n.a. | T 19 |
| W20 | 23 43 27 | 23°56'39 | 7♉ 1 | 12° 5 | 0♏37 | 17° 1 | 0°47 | 15°33 | 25°13 | 10°39 | 1°31 | 27°34 | 28°52 | 21° 3 | n.a. | W20 |
| T 21 | 23 47 24 | 24°56'25 | 21°36 | 13°31 | 1°49 | 17°39 | 0°47 | 15°33 | 25°12 | 10°38 | 1°30 | 27°35 | 28°49 | 21° 9 | n.a. | T 21 |
| F 22 | 23 51 20 | 25°56'14 | 5♊51 | 14°57 | 3° 2 | 18°16 | 0°R47 | 15°33 | 25°12 | 10°36 | 1°29 | 27°37 | 28°46 | 21°16 | n.a. | F 22 |
| S 23 | 23 55 17 | 26°56'05 | 19°44 | 16°21 | 4°14 | 18°53 | 0°47 | 15°D33 | 25°11 | 10°35 | 1°28 | 27°38 | 28°43 | 21°23 | n.a. | S 23 |
| S 24 | 23 59 14 | 27°55'58 | 3♋15 | 17°45 | 5°26 | 19°31 | 0°47 | 15°33 | 25°10 | 10°33 | 1°27 | 27°R38 | 28°40 | 21°29 | n.a. | S 24 |
| M25 | 0 3 10 | 28°55'54 | 16°26 | 19° 8 | 6°38 | 20° 8 | 0°46 | 15°33 | 25°10 | 10°31 | 1°26 | 27°37 | 28°36 | 21°36 | n.a. | M25 |
| T 26 | 0 7 7 | 29°55'52 | 29°19 | 20°30 | 7°50 | 20°45 | 0°45 | 15°33 | 25° 9 | 10°30 | 1°25 | 27°34 | 28°33 | 21°43 | n.a. | T 26 |
| W27 | 0 11 3 | 0♎55'52 | 11♌57 | 21°51 | 9° 2 | 21°23 | 0°44 | 15°34 | 25° 8 | 10°28 | 1°24 | 27°31 | 28°30 | 21°49 | n.a. | W27 |
| T 28 | 0 15 0 | 1°55'55 | 24°21 | 23°11 | 10°14 | 22° 0 | 0°43 | 15°34 | 25° 8 | 10°26 | 1°23 | 27°26 | 28°27 | 21°56 | n.a. | T 28 |
| F 29 | 0 18 56 | 2°55'59 | 6♍34 | 24°29 | 11°26 | 22°37 | 0°42 | 15°35 | 25° 7 | 10°25 | 1°22 | 27°22 | 28°24 | 22° 3 | n.a. | F 29 |
| S 30 | 0 22 53 | 3♎56'06 | 18♍38 | 25♎47 | 12♏38 | 23♌14 | 0♊40 | 15♏35 | 25♏ 7 | 10♈23 | 1♉21 | 27♈18 | 28♈20 | 22♎ 9 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 9n44 | 16n41 | 4n28 | 7n46 | 0n52 | 2s58 | 0n 5 | 20n23 | 1n13 | 19n40 | 0s45 | 23s27 | 0s43 | 21s54 | 0s39 | 2n37 | 2s 0 | 0s44 | 13s47 | 11n 4 | 11n33 | 6s36 | | n.a. |
| S 2 | 9 22 | 11 33 | 3 50 | 7 1 | 0 46 | 3 30 | 0 2 | 20 14 | 1 13 | 19 41 | 0 45 | 23 28 | 0 43 | 21 54 | 0 39 | 2 36 | 2 0 | 0 44 | 13 47 | 11 1 | 11 32 | 6 39 | | n.a. |
| S 3 | 9 0 | 6 4 | 3 3 | 6 16 | 0 40 | 4 2 | 0s 1 | 20 4 | 1 14 | 19 42 | 0 45 | 23 28 | 0 43 | 21 54 | 0 39 | 2 36 | 2 0 | 0 45 | 13 48 | 10 58 | 11 31 | 6 42 | | n.a. |
| M 4 | 8 38 | 0 25 | 2 7 | 5 32 | 0 34 | 4 34 | 0 4 | 19 55 | 1 14 | 19 43 | 0 45 | 23 28 | 0 43 | 21 55 | 0 39 | 2 35 | 2 0 | 0 45 | 13 48 | 10 56 | 11 30 | 6 46 | | n.a. |
| T 5 | 8 16 | 5s12 | 1 7 | 4 47 | 0 27 | 5 5 | 0 7 | 19 46 | 1 14 | 19 43 | 0 45 | 23 28 | 0 43 | 21 55 | 0 39 | 2 35 | 2 0 | 0 46 | 13 48 | 10 55 | 11 29 | 6 49 | | n.a. |
| W 6 | 7 53 | 10 37 | 0 4 | 4 2 | 0 20 | 5 37 | 0 10 | 19 36 | 1 15 | 19 44 | 0 45 | 23 29 | 0 43 | 21 55 | 0 39 | 2 34 | 2 0 | 0 46 | 13 48 | 10 55 | 11 28 | 6 52 | | n.a. |
| T 7 | 7 30 | 15 39 | 1s 0 | 3 18 | 0 14 | 6 8 | 0 13 | 19 26 | 1 15 | 19 44 | 0 45 | 23 29 | 0 43 | 21 55 | 0 39 | 2 34 | 2 0 | 0 46 | 13 48 | 10 55 | 11 26 | 6 56 | | n.a. |
| F 8 | 7 7 | 20 9 | 2 1 | 2 33 | 0 7 | 6 40 | 0 17 | 19 16 | 1 15 | 19 45 | 0 45 | 23 29 | 0 43 | 21 56 | 0 39 | 2 33 | 2 0 | 0 47 | 13 49 | 10 56 | 11 25 | 6 59 | | n.a. |
| S 9 | 6 45 | 23 54 | 2 58 | 1 49 | 0s 0 | 7 11 | 0 20 | 19 7 | 1 16 | 19 46 | 0 45 | 23 29 | 0 43 | 21 56 | 0 39 | 2 32 | 2 0 | 0 47 | 13 49 | 10 56 | 11 24 | 7 2 | | n.a. |
| S 10 | 6 21 | 26 39 | 3 48 | 1 5 | 0 7 | 7 42 | 0 23 | 18 56 | 1 16 | 19 46 | 0 45 | 23 30 | 0 43 | 21 56 | 0 39 | 2 32 | 2 0 | 0 48 | 13 49 | 10 56 | 11 23 | 7 6 | | n.a. |
| M11 | 5 58 | 28 10 | 4 28 | 0 21 | 0 14 | 8 13 | 0 26 | 18 46 | 1 16 | 19 46 | 0 45 | 23 30 | 0 43 | 21 56 | 0 39 | 2 31 | 2 0 | 0 48 | 13 49 | 10 56 | 11 22 | 7 9 | | n.a. |
| T 12 | 5 35 | 28 12 | 4 56 | 0s23 | 0 21 | 8 43 | 0 29 | 18 36 | 1 16 | 19 47 | 0 45 | 23 30 | 0 43 | 21 56 | 0 39 | 2 31 | 2 0 | 0 48 | 13 49 | 10 55 | 11 21 | 7 13 | | n.a. |
| W13 | 5 12 | 26 36 | 5 10 | 1 6 | 0 28 | 9 14 | 0 33 | 18 26 | 1 17 | 19 47 | 0 45 | 23 30 | 0 43 | 21 57 | 0 39 | 2 30 | 2 0 | 0 49 | 13 50 | 10 53 | 11 20 | 7 16 | | n.a. |
| T 14 | 4 48 | 23 23 | 5 6 | 1 49 | 0 35 | 9 44 | 0 36 | 18 15 | 1 17 | 19 48 | 0 45 | 23 30 | 0 43 | 21 57 | 0 39 | 2 29 | 2 0 | 0 49 | 13 50 | 10 51 | 11 19 | 7 19 | | n.a. |
| F 15 | 4 25 | 18 41 | 4 43 | 2 32 | 0 42 | 10 14 | 0 39 | 18 4 | 1 17 | 19 48 | 0 45 | 23 30 | 0 43 | 21 57 | 0 39 | 2 29 | 2 0 | 0 50 | 13 50 | 10 49 | 11 17 | 7 23 | | n.a. |
| S 16 | 4 1 | 12 45 | 4 1 | 3 15 | 0 49 | 10 44 | 0 42 | 17 54 | 1 18 | 19 48 | 0 45 | 23 30 | 0 43 | 21 57 | 0 39 | 2 28 | 2 0 | 0 50 | 13 50 | 10 47 | 11 16 | 7 26 | | n.a. |
| S 17 | 3 37 | 5 59 | 3 2 | 3 57 | 0 56 | 11 14 | 0 46 | 17 43 | 1 18 | 19 48 | 0 45 | 23 30 | 0 43 | 21 57 | 0 39 | 2 27 | 2 0 | 0 50 | 13 50 | 10 45 | 11 15 | 7 29 | | n.a. |
| M18 | 3 14 | 1n10 | 1 50 | 4 38 | 1 3 | 11 43 | 0 49 | 17 32 | 1 18 | 19 48 | 0 45 | 23 30 | 0 43 | 21 58 | 0 39 | 2 27 | 2 0 | 0 51 | 13 50 | 10 44 | 11 14 | 7 33 | | n.a. |
| T 19 | 2 50 | 8 15 | 0 30 | 5 19 | 1 10 | 12 12 | 0 52 | 17 21 | 1 18 | 19 49 | 0 45 | 23 31 | 0 43 | 21 58 | 0 39 | 2 26 | 2 0 | 0 51 | 13 51 | 10 43 | 11 13 | 7 36 | | n.a. |
| W20 | 2 26 | 14 49 | 0n51 | 6 0 | 1 16 | 12 41 | 0 56 | 17 9 | 1 19 | 19 49 | 0 45 | 23 31 | 0 43 | 21 58 | 0 39 | 2 25 | 2 0 | 0 52 | 13 51 | 10 44 | 11 12 | 7 39 | | n.a. |
| T 21 | 2 2 | 20 25 | 2 8 | 6 40 | 1 23 | 13 9 | 0 59 | 16 58 | 1 19 | 19 49 | 0 45 | 23 31 | 0 43 | 21 58 | 0 39 | 2 25 | 2 0 | 0 52 | 13 51 | 10 44 | 11 11 | 7 42 | | n.a. |
| F 22 | 1 38 | 24 43 | 3 14 | 7 20 | 1 30 | 13 38 | 1 2 | 16 47 | 1 19 | 19 49 | 0 45 | 23 31 | 0 43 | 21 58 | 0 39 | 2 24 | 2 0 | 0 53 | 13 51 | 10 45 | 11 9 | 7 46 | | n.a. |
| S 23 | 1 14 | 27 25 | 4 8 | 7 59 | 1 36 | 14 6 | 1 5 | 16 35 | 1 20 | 19 49 | 0 45 | 23 31 | 0 43 | 21 58 | 0 39 | 2 23 | 2 0 | 0 53 | 13 51 | 10 45 | 11 8 | 7 49 | | n.a. |
| S 24 | 0 50 | 28 26 | 4 46 | 8 37 | 1 42 | 14 33 | 1 8 | 16 24 | 1 20 | 19 48 | 0 45 | 23 31 | 0 43 | 21 58 | 0 39 | 2 23 | 2 0 | 0 53 | 13 51 | 10 45 | 11 7 | 7 52 | | n.a. |
| M25 | 0 26 | 27 46 | 5 8 | 9 15 | 1 49 | 15 1 | 1 12 | 16 12 | 1 20 | 19 48 | 0 45 | 23 31 | 0 43 | 21 58 | 0 39 | 2 22 | 2 0 | 0 54 | 13 51 | 10 44 | 11 6 | 7 56 | | n.a. |
| T 26 | 0 2 | 25 38 | 5 14 | 9 52 | 1 55 | 15 27 | 1 15 | 16 0 | 1 20 | 19 48 | 0 45 | 23 31 | 0 43 | 21 59 | 0 39 | 2 21 | 2 0 | 0 54 | 13 52 | 10 44 | 11 5 | 7 59 | | n.a. |
| W27 | 0s22 | 22 15 | 5 4 | 10 28 | 2 1 | 15 54 | 1 18 | 15 48 | 1 21 | 19 48 | 0 45 | 23 31 | 0 43 | 21 59 | 0 38 | 2 21 | 2 0 | 0 55 | 13 52 | 10 42 | 11 4 | 8 2 | | n.a. |
| T 28 | 0 47 | 17 57 | 4 40 | 11 3 | 2 6 | 16 20 | 1 21 | 15 36 | 1 21 | 19 48 | 0 45 | 23 31 | 0 43 | 21 59 | 0 38 | 2 20 | 2 0 | 0 55 | 13 52 | 10 41 | 11 3 | 8 6 | | n.a. |
| F 29 | 1 11 | 12 58 | 4 4 | 11 38 | 2 12 | 16 46 | 1 24 | 15 24 | 1 21 | 19 47 | 0 45 | 23 30 | 0 44 | 21 59 | 0 38 | 2 19 | 2 0 | 0 56 | 13 52 | 10 39 | 11 1 | 8 9 | | n.a. |
| S 30 | 1s35 | 7n33 | 3n17 | 12s11 | 2s17 | 17s11 | 1s27 | 15n12 | 1n21 | 19n47 | 0s45 | 23s30 | 0s44 | 21s59 | 0s38 | 2n19 | 2s 0 | 0s56 | 13s52 | 10n38 | 11n 0 | 8s12 | | n.a. |

Julian Day Number = 1685141.5, Delta T = 03h13m24s
Ecliptic obliquity = 23°42'34, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°26'12, Lahiri = - 5°19'12 Julian Calendar 1 Sept. 100 BCE == Greg. Calendar 30 Aug. 100 BCE

The year -99 astronomical counting style corresponds to year 100 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 100 BCE
# geocentric

## OCTOBER 100 BCE (-99) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 0 26 49 | 4♎56'14 | 0♎35 | 27♎ 3 | 13♏50 | 23♌52 | 0°R38 | 15♑36 | 25°R 7 | 10°R21 | 1°R20 | 27°R15 | 28♈17 | 22♎16 | n.a. | S 1 |
| M 2 | 0 30 46 | 5°56'25 | 12°26 | 28°18 | 15° 2 | 24°29 | 0♊36 | 15°37 | 25♑ 6 | 10♈20 | 1♉19 | 27♈13 | 28°14 | 22°23 | n.a. | M 2 |
| T 3 | 0 34 43 | 6°56'38 | 24°14 | 29°31 | 16°14 | 25° 6 | 0°34 | 15°38 | 25° 6 | 10°18 | 1°18 | 27°D12 | 28°11 | 22°29 | n.a. | T 3 |
| W 4 | 0 38 39 | 7°56'52 | 6♏ 0 | 0♏42 | 17°26 | 25°43 | 0°32 | 15°39 | 25° 6 | 10°16 | 1°17 | 27°12 | 28° 8 | 22°36 | n.a. | W 4 |
| T 5 | 0 42 36 | 8°57'08 | 17°48 | 1°52 | 18°38 | 26°20 | 0°29 | 15°40 | 25° 6 | 10°14 | 1°16 | 27°13 | 28° 5 | 22°42 | n.a. | T 5 |
| F 6 | 0 46 32 | 9°57'26 | 29°40 | 2°59 | 19°49 | 26°57 | 0°26 | 15°42 | 25° 5 | 10°13 | 1°15 | 27°15 | 28° 1 | 22°49 | n.a. | F 6 |
| S 7 | 0 50 29 | 10°57'46 | 11♐41 | 4° 4 | 21° 1 | 27°35 | 0°23 | 15°43 | 25° 5 | 10°11 | 1°14 | 27°16 | 27°58 | 22°56 | n.a. | S 7 |
| S 8 | 0 54 25 | 11°58'07 | 23°54 | 5° 6 | 22°12 | 28°12 | 0°20 | 15°45 | 25°D 5 | 10° 9 | 1°13 | 27°18 | 27°55 | 23° 2 | n.a. | S 8 |
| M 9 | 0 58 22 | 12°58'30 | 6♑24 | 6° 5 | 23°24 | 28°49 | 0°17 | 15°46 | 25° 5 | 10° 8 | 1°12 | 27°18 | 27°52 | 23° 9 | n.a. | M 9 |
| T 10 | 1 2 18 | 13°58'54 | 19°15 | 7° 0 | 24°35 | 29°26 | 0°13 | 15°48 | 25° 5 | 10° 6 | 1°11 | 27°R18 | 27°49 | 23°16 | n.a. | T 10 |
| W11 | 1 6 15 | 14°59'20 | 2♒30 | 7°52 | 25°47 | 0♍ 3 | 0° 9 | 15°50 | 25° 6 | 10° 4 | 1°10 | 27°18 | 27°45 | 23°22 | n.a. | W11 |
| T 12 | 1 10 12 | 15°59'47 | 16°13 | 8°40 | 26°58 | 0°40 | 0° 5 | 15°52 | 25° 6 | 10° 3 | 1° 9 | 27°17 | 27°42 | 23°29 | n.a. | T 12 |
| F 13 | 1 14 8 | 17° 0'15 | 0♓23 | 9°22 | 28° 9 | 1°17 | 0° 1 | 15°54 | 25° 6 | 10° 1 | 1° 8 | 27°15 | 27°39 | 23°36 | n.a. | F 13 |
| S 14 | 1 18 5 | 18° 0'45 | 14°59 | 9°59 | 29°21 | 1°54 | 29♉57 | 15°56 | 25° 6 | 9°59 | 1° 7 | 27°14 | 27°36 | 23°42 | n.a. | S 14 |
| S 15 | 1 22 1 | 19° 1'17 | 29°57 | 10°30 | 0♗32 | 2°31 | 29°53 | 15°58 | 25° 7 | 9°58 | 1° 6 | 27°13 | 27°33 | 23°49 | n.a. | S 15 |
| M16 | 1 25 58 | 20° 1'50 | 15♈ 7 | 10°55 | 1°43 | 3° 7 | 29°48 | 16° 0 | 25° 7 | 9°56 | 1° 4 | 27°13 | 27°30 | 23°56 | n.a. | M16 |
| T 17 | 1 29 54 | 21° 2'25 | 0♉22 | 11°12 | 2°54 | 3°44 | 29°43 | 16° 3 | 25° 8 | 9°54 | 1° 3 | 27°D13 | 27°26 | 24° 2 | n.a. | T 17 |
| W18 | 1 33 51 | 22° 3'01 | 15°31 | 11°R20 | 4° 5 | 4°21 | 29°38 | 16° 5 | 25° 8 | 9°53 | 1° 2 | 27°13 | 27°23 | 24° 9 | n.a. | W18 |
| T 19 | 1 37 47 | 23° 3'39 | 0♊25 | 11°20 | 5°15 | 4°58 | 29°33 | 16° 8 | 25° 9 | 9°51 | 1° 1 | 27°13 | 27°20 | 24°15 | n.a. | T 19 |
| F 20 | 1 41 44 | 24° 4'19 | 14°58 | 11°10 | 6°26 | 5°35 | 29°28 | 16°11 | 25° 9 | 9°49 | 1° 0 | 27°14 | 27°17 | 24°22 | n.a. | F 20 |
| S 21 | 1 45 41 | 25° 5'01 | 29° 5 | 10°50 | 7°37 | 6°12 | 29°22 | 16°14 | 25°10 | 9°48 | 0°59 | 27°14 | 27°14 | 24°29 | n.a. | S 21 |
| S 22 | 1 49 37 | 26° 5'44 | 12♋46 | 10°20 | 8°47 | 6°49 | 29°17 | 16°16 | 25°11 | 9°46 | 0°58 | 27°14 | 27°11 | 24°35 | n.a. | S 22 |
| M23 | 1 53 34 | 27° 6'29 | 26° 0 | 9°39 | 9°58 | 7°25 | 29°11 | 16°19 | 25°11 | 9°45 | 0°57 | 27°14 | 27° 7 | 24°42 | n.a. | M23 |
| T 24 | 1 57 30 | 28° 7'16 | 8♌51 | 8°48 | 11° 8 | 8° 2 | 29° 5 | 16°22 | 25°12 | 9°43 | 0°55 | 27°14 | 27° 4 | 24°49 | n.a. | T 24 |
| W25 | 2 1 27 | 29° 8'05 | 21°22 | 7°47 | 12°19 | 8°39 | 28°59 | 16°26 | 25°13 | 9°41 | 0°54 | 27°14 | 27° 1 | 24°55 | n.a. | W25 |
| T 26 | 2 5 23 | 0♏ 8'55 | 3♍38 | 6°37 | 13°29 | 9°16 | 28°52 | 16°29 | 25°14 | 9°40 | 0°53 | 27°14 | 26°58 | 25° 2 | n.a. | T 26 |
| F 27 | 2 9 20 | 1° 9'47 | 15°41 | 5°21 | 14°39 | 9°52 | 28°46 | 16°32 | 25°15 | 9°38 | 0°52 | 27°15 | 26°55 | 25° 9 | n.a. | F 27 |
| S 28 | 2 13 16 | 2°10'40 | 27°36 | 4° 1 | 15°49 | 10°29 | 28°39 | 16°36 | 25°16 | 9°37 | 0°51 | 27°15 | 26°51 | 25°15 | n.a. | S 28 |
| S 29 | 2 17 13 | 3°11'34 | 9♎25 | 2°39 | 16°59 | 11° 6 | 28°33 | 16°39 | 25°17 | 9°35 | 0°50 | 27°16 | 26°48 | 25°22 | n.a. | S 29 |
| M30 | 2 21 10 | 4°12'30 | 21°12 | 1°17 | 18° 9 | 11°42 | 28°26 | 16°43 | 25°18 | 9°34 | 0°49 | 27°16 | 26°45 | 25°29 | n.a. | M30 |
| T 31 | 2 25 6 | 5♏13'28 | 3♏ 0 | 29♎59 | 19♗18 | 12♍19 | 28♉19 | 16♑47 | 25♑19 | 9♈32 | 0♉48 | 27°R16 | 26♈42 | 25♎35 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| S 1 | 1s59 | 1n56 | 2n22 | 12s44 | 2s22 | 17s36 | 1s30 | 15n 0 | 1n22 | 19n47 | 0s45 | 23s30 | 0s44 | 21s59 | 0s38 | 2n18 | 2s 0 | 0s56 | 13s52 | 10n37 | 10n59 | 8s16 | | | n.a. |
| M 2 | 2 23 | 3s44 | 1 21 | 13 16 | 2 26 | 18 1 | 1 33 | 14 48 | 1 22 | 19 46 | 0 45 | 23 30 | 0 44 | 21 59 | 0 38 | 2 17 | 2 0 | 0 57 | 13 52 | 10 36 | 10 58 | 8 19 | | | n.a. |
| T 3 | 2 47 | 9 15 | 0 16 | 13 46 | 2 31 | 18 25 | 1 36 | 14 35 | 1 22 | 19 46 | 0 45 | 23 30 | 0 44 | 21 59 | 0 38 | 2 17 | 2 0 | 0 57 | 13 52 | 10 35 | 10 57 | 8 22 | | | n.a. |
| W 4 | 3 11 | 14 26 | 0s48 | 14 15 | 2 35 | 18 48 | 1 39 | 14 23 | 1 23 | 19 45 | 0 45 | 23 30 | 0 44 | 21 59 | 0 38 | 2 16 | 2 0 | 0 58 | 13 52 | 10 36 | 10 56 | 8 26 | | | n.a. |
| T 5 | 3 35 | 19 7 | 1 52 | 14 43 | 2 38 | 19 12 | 1 42 | 14 10 | 1 23 | 19 45 | 0 45 | 23 30 | 0 44 | 21 59 | 0 38 | 2 15 | 2 0 | 0 58 | 13 53 | 10 36 | 10 55 | 8 29 | | | n.a. |
| F 6 | 3 59 | 23 5 | 2 50 | 15 10 | 2 41 | 19 34 | 1 45 | 13 58 | 1 23 | 19 44 | 0 45 | 23 30 | 0 44 | 21 59 | 0 38 | 2 15 | 2 0 | 0 59 | 13 53 | 10 36 | 10 53 | 8 32 | | | n.a. |
| S 7 | 4 23 | 26 7 | 3 42 | 15 35 | 2 44 | 19 57 | 1 48 | 13 45 | 1 23 | 19 44 | 0 45 | 23 30 | 0 44 | 21 59 | 0 38 | 2 14 | 2 0 | 0 59 | 13 53 | 10 37 | 10 52 | 8 36 | | | n.a. |
| S 8 | 4 47 | 27 59 | 4 25 | 15 58 | 2 46 | 20 18 | 1 50 | 13 32 | 1 24 | 19 43 | 0 45 | 23 29 | 0 44 | 21 59 | 0 38 | 2 13 | 2 0 | 0 59 | 13 53 | 10 37 | 10 51 | 8 39 | | | n.a. |
| M 9 | 5 11 | 28 29 | 4 56 | 16 19 | 2 47 | 20 39 | 1 53 | 13 20 | 1 24 | 19 42 | 0 45 | 23 29 | 0 44 | 21 59 | 0 38 | 2 13 | 2 0 | 1 0 | 13 53 | 10 38 | 10 50 | 8 42 | | | n.a. |
| T 10 | 5 35 | 27 29 | 5 14 | 16 39 | 2 48 | 21 0 | 1 56 | 13 7 | 1 24 | 19 41 | 0 45 | 23 29 | 0 44 | 21 59 | 0 38 | 2 12 | 2 0 | 1 0 | 13 53 | 10 38 | 10 49 | 8 45 | | | n.a. |
| W11 | 5 58 | 24 57 | 5 16 | 16 56 | 2 48 | 21 20 | 1 58 | 12 54 | 1 24 | 19 41 | 0 45 | 23 29 | 0 44 | 21 59 | 0 38 | 2 11 | 2 0 | 1 1 | 13 53 | 10 38 | 10 48 | 8 49 | | | n.a. |
| T 12 | 6 22 | 20 55 | 5 0 | 17 11 | 2 47 | 21 40 | 2 1 | 12 41 | 1 25 | 19 40 | 0 45 | 23 29 | 0 44 | 21 59 | 0 38 | 2 11 | 2 0 | 1 1 | 13 53 | 10 37 | 10 46 | 8 52 | | | n.a. |
| F 13 | 6 45 | 15 36 | 4 26 | 17 24 | 2 46 | 21 59 | 2 3 | 12 28 | 1 25 | 19 39 | 0 45 | 23 28 | 0 44 | 21 59 | 0 38 | 2 10 | 2 0 | 1 2 | 13 53 | 10 37 | 10 45 | 8 55 | | | n.a. |
| S 14 | 7 9 | 9 15 | 3 34 | 17 33 | 2 43 | 22 17 | 2 6 | 12 14 | 1 25 | 19 38 | 0 45 | 23 28 | 0 44 | 21 59 | 0 38 | 2 9 | 2 0 | 1 2 | 13 53 | 10 36 | 10 44 | 8 59 | | | n.a. |
| S 15 | 7 32 | 2 15 | 2 26 | 17 40 | 2 40 | 22 35 | 2 8 | 12 1 | 1 25 | 19 37 | 0 45 | 23 28 | 0 44 | 21 58 | 0 38 | 2 9 | 2 0 | 1 2 | 13 53 | 10 36 | 10 43 | 9 2 | | | n.a. |
| M16 | 7 55 | 5n 0 | 1 7 | 17 43 | 2 35 | 22 52 | 2 10 | 11 48 | 1 26 | 19 36 | 0 45 | 23 28 | 0 44 | 21 58 | 0 38 | 2 8 | 2 0 | 1 3 | 13 53 | 10 36 | 10 42 | 9 5 | | | n.a. |
| T 17 | 8 18 | 12 0 | 0n18 | 17 43 | 2 29 | 23 8 | 2 13 | 11 35 | 1 26 | 19 35 | 0 45 | 23 27 | 0 44 | 21 58 | 0 38 | 2 8 | 2 0 | 1 3 | 13 53 | 10 36 | 10 41 | 9 9 | | | n.a. |
| W18 | 8 41 | 18 16 | 1 40 | 17 38 | 2 21 | 23 24 | 2 15 | 11 21 | 1 26 | 19 34 | 0 45 | 23 27 | 0 44 | 21 58 | 0 38 | 2 7 | 2 0 | 1 4 | 13 53 | 10 36 | 10 40 | 9 12 | | | n.a. |
| T 19 | 9 4 | 23 19 | 2 54 | 17 30 | 2 12 | 23 40 | 2 17 | 11 8 | 1 26 | 19 33 | 0 45 | 23 27 | 0 44 | 21 58 | 0 38 | 2 6 | 2 0 | 1 4 | 13 53 | 10 36 | 10 38 | 9 15 | | | n.a. |
| F 20 | 9 26 | 26 45 | 3 56 | 17 17 | 2 2 | 23 54 | 2 19 | 10 54 | 1 26 | 19 32 | 0 45 | 23 26 | 0 44 | 21 58 | 0 38 | 2 6 | 2 0 | 1 4 | 13 53 | 10 36 | 10 37 | 9 18 | | | n.a. |
| S 21 | 9 49 | 28 23 | 4 41 | 16 59 | 1 50 | 24 8 | 2 21 | 10 41 | 1 27 | 19 31 | 0 45 | 23 26 | 0 44 | 21 58 | 0 38 | 2 5 | 2 0 | 1 5 | 13 53 | 10 36 | 10 36 | 9 22 | | | n.a. |
| S 22 | 10 11 | 28 12 | 5 8 | 16 36 | 1 36 | 24 22 | 2 23 | 10 27 | 1 27 | 19 30 | 0 45 | 23 26 | 0 44 | 21 58 | 0 38 | 2 4 | 2 0 | 1 5 | 13 53 | 10 36 | 10 35 | 9 25 | | | n.a. |
| M23 | 10 33 | 26 23 | 5 18 | 16 8 | 1 20 | 24 34 | 2 24 | 10 14 | 1 27 | 19 28 | 0 45 | 23 25 | 0 44 | 21 57 | 0 38 | 2 4 | 2 0 | 1 5 | 13 53 | 10 36 | 10 34 | 9 28 | | | n.a. |
| T 24 | 10 55 | 23 15 | 5 12 | 15 35 | 1 3 | 24 46 | 2 26 | 10 0 | 1 27 | 19 27 | 0 45 | 23 25 | 0 44 | 21 57 | 0 38 | 2 3 | 2 0 | 1 6 | 13 53 | 10 36 | 10 33 | 9 32 | | | n.a. |
| W25 | 11 17 | 19 6 | 4 50 | 14 58 | 0 45 | 24 58 | 2 28 | 9 46 | 1 28 | 19 26 | 0 45 | 23 25 | 0 44 | 21 57 | 0 38 | 2 3 | 2 0 | 1 6 | 13 53 | 10 36 | 10 31 | 9 35 | | | n.a. |
| T 26 | 11 39 | 14 16 | 4 16 | 14 17 | 0 25 | 25 8 | 2 29 | 9 32 | 1 28 | 19 25 | 0 45 | 23 24 | 0 44 | 21 57 | 0 38 | 2 2 | 2 0 | 1 6 | 13 53 | 10 36 | 10 30 | 9 38 | | | n.a. |
| F 27 | 12 1 | 8 57 | 3 31 | 13 32 | 0 5 | 25 18 | 2 30 | 9 19 | 1 28 | 19 23 | 0 44 | 23 24 | 0 44 | 21 57 | 0 38 | 2 1 | 2 0 | 1 7 | 13 53 | 10 36 | 10 29 | 9 41 | | | n.a. |
| S 28 | 12 22 | 3 22 | 2 38 | 12 45 | 0n16 | 25 28 | 2 32 | 9 5 | 1 28 | 19 22 | 0 44 | 23 23 | 0 44 | 21 56 | 0 38 | 2 1 | 2 0 | 1 7 | 13 53 | 10 37 | 10 28 | 9 45 | | | n.a. |
| S 29 | 12 43 | 2s17 | 1 38 | 11 58 | 0 36 | 25 36 | 2 33 | 8 51 | 1 28 | 19 20 | 0 44 | 23 23 | 0 44 | 21 56 | 0 38 | 2 0 | 2 0 | 1 8 | 13 53 | 10 37 | 10 27 | 9 48 | | | n.a. |
| M30 | 13 4 | 7 51 | 0 34 | 11 11 | 0 56 | 25 44 | 2 34 | 8 37 | 1 29 | 19 19 | 0 44 | 23 22 | 0 44 | 21 56 | 0 38 | 2 0 | 2 0 | 1 8 | 13 53 | 10 37 | 10 26 | 9 51 | | | n.a. |
| T 31 | 13s25 | 13s 9 | 0s32 | 10s26 | 1n15 | 25s51 | 2s35 | 8n23 | 1n29 | 19n17 | 0s44 | 23s22 | 0s44 | 21s56 | 0s38 | 1n59 | 2s 0 | 1s 8 | 13s53 | 10n37 | 10n25 | 9s54 | | | n.a. |

Julian Day Number = 1685171.5, Delta T = 03h13m23s
Ecliptic obliquity = 23°42'34, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°26'08, Lahiri = - 5°19'07 Julian Calendar 1 Oct. 100 BCE == Greg. Calendar 29 Sept. 100 BCE

The year -99 astronomical counting style corresponds to year 100 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 100 BCE
# geocentric

## NOVEMBER 100 BCE (-99) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 2 29 3 | 6♏14'26 | 14♏49 | 28°R48 | 20♐28 | 12♍55 | 28°R12 | 16♑50 | 25♑20 | 9°R31 | 0°R46 | 27°R16 | 26♈39 | 25♎42 | n.a. | W 1 |
| T 2 | 2 32 59 | 7°15'26 | 26°43 | 27♎45 | 21°37 | 13°32 | 28♉ 5 | 16°54 | 25°22 | 9♈29 | 0♉45 | 27♈15 | 26°36 | 25°49 | n.a. | T 2 |
| F 3 | 2 36 56 | 8°16'26 | 8♐43 | 26°52 | 22°47 | 14° 8 | 27°58 | 16°58 | 25°23 | 9°28 | 0°44 | 27°13 | 26°32 | 25°55 | n.a. | F 3 |
| S 4 | 2 40 52 | 9°17'28 | 20°52 | 26° 9 | 23°56 | 14°45 | 27°50 | 17° 2 | 25°24 | 9°26 | 0°43 | 27°11 | 26°29 | 26° 2 | n.a. | S 4 |
| S 5 | 2 44 49 | 10°18'30 | 3♑12 | 25°38 | 25° 5 | 15°21 | 27°43 | 17° 6 | 25°26 | 9°25 | 0°42 | 27° 9 | 26°26 | 26° 8 | n.a. | S 5 |
| M 6 | 2 48 45 | 11°19'34 | 15°45 | 25°18 | 26°14 | 15°58 | 27°35 | 17°11 | 25°27 | 9°24 | 0°41 | 27° 8 | 26°23 | 26°15 | n.a. | M 6 |
| T 7 | 2 52 42 | 12°20'38 | 28°35 | 25°D10 | 27°23 | 16°34 | 27°28 | 17°15 | 25°29 | 9°22 | 0°40 | 27° 7 | 26°20 | 26°22 | n.a. | T 7 |
| W 8 | 2 56 39 | 13°21'43 | 11♒45 | 25°12 | 28°32 | 17°10 | 27°20 | 17°19 | 25°30 | 9°21 | 0°39 | 27°D 6 | 26°17 | 26°28 | n.a. | W 8 |
| T 9 | 3 0 35 | 14°22'48 | 25°16 | 25°24 | 29°40 | 17°47 | 27°12 | 17°24 | 25°32 | 9°20 | 0°37 | 27° 6 | 26°13 | 26°35 | n.a. | T 9 |
| F 10 | 3 4 32 | 15°23'54 | 9♓11 | 25°45 | 0♑48 | 18°23 | 27° 5 | 17°28 | 25°33 | 9°18 | 0°36 | 27° 7 | 26°10 | 26°42 | n.a. | F 10 |
| S 11 | 3 8 28 | 16°25'00 | 23°29 | 26°14 | 1°57 | 18°59 | 26°57 | 17°33 | 25°35 | 9°17 | 0°35 | 27° 9 | 26° 7 | 26°48 | n.a. | S 11 |
| S 12 | 3 12 25 | 17°26'07 | 8♈ 9 | 26°51 | 3° 5 | 19°35 | 26°49 | 17°38 | 25°37 | 9°16 | 0°34 | 27°10 | 26° 4 | 26°55 | n.a. | S 12 |
| M13 | 3 16 21 | 18°27'14 | 23° 7 | 27°34 | 4°12 | 20°12 | 26°41 | 17°42 | 25°39 | 9°14 | 0°33 | 27°R11 | 26° 1 | 27° 2 | n.a. | M13 |
| T 14 | 3 20 18 | 19°28'22 | 8♉14 | 28°23 | 5°20 | 20°48 | 26°33 | 17°47 | 25°40 | 9°13 | 0°32 | 27°10 | 25°57 | 27° 8 | n.a. | T 14 |
| W15 | 3 24 14 | 20°29'30 | 23°22 | 29°18 | 6°28 | 21°24 | 26°25 | 17°52 | 25°42 | 9°12 | 0°31 | 27° 9 | 25°54 | 27°15 | n.a. | W15 |
| T 16 | 3 28 11 | 21°30'40 | 8♊23 | 0♏16 | 7°35 | 22° 0 | 26°16 | 17°57 | 25°44 | 9°11 | 0°30 | 27° 6 | 25°51 | 27°22 | n.a. | T 16 |
| F 17 | 3 32 8 | 22°31'50 | 23° 6 | 1°19 | 8°42 | 22°36 | 26° 8 | 18° 2 | 25°46 | 9°10 | 0°29 | 27° 3 | 25°48 | 27°28 | n.a. | F 17 |
| S 18 | 3 36 4 | 23°33'01 | 7♋26 | 2°25 | 9°49 | 23°12 | 26° 0 | 18° 7 | 25°48 | 9° 9 | 0°28 | 26°59 | 25°45 | 27°35 | n.a. | S 18 |
| S 19 | 3 40 1 | 24°34'12 | 21°18 | 3°34 | 10°56 | 23°48 | 25°52 | 18°13 | 25°50 | 9° 8 | 0°27 | 26°55 | 25°42 | 27°41 | n.a. | S 19 |
| M20 | 3 43 57 | 25°35'25 | 4♌42 | 4°46 | 12° 2 | 24°24 | 25°44 | 18°18 | 25°52 | 9° 7 | 0°26 | 26°52 | 25°38 | 27°48 | n.a. | M20 |
| T 21 | 3 47 54 | 26°36'38 | 17°38 | 6° 0 | 13° 8 | 25° 0 | 25°36 | 18°23 | 25°54 | 9° 5 | 0°25 | 26°50 | 25°35 | 27°55 | n.a. | T 21 |
| W22 | 3 51 50 | 27°37'51 | 0♍12 | 7°16 | 14°14 | 25°36 | 25°28 | 18°29 | 25°56 | 9° 4 | 0°24 | 26°D50 | 25°32 | 28° 1 | n.a. | W22 |
| T 23 | 3 55 47 | 28°39'05 | 12°26 | 8°34 | 15°20 | 26°12 | 25°19 | 18°34 | 25°59 | 9° 4 | 0°23 | 26°51 | 25°29 | 28° 8 | n.a. | T 23 |
| F 24 | 3 59 44 | 29°40'20 | 24°26 | 9°54 | 16°25 | 26°47 | 25°11 | 18°40 | 26° 1 | 9° 3 | 0°22 | 26°52 | 25°26 | 28°15 | n.a. | F 24 |
| S 25 | 4 3 40 | 0♐41'35 | 6♎17 | 11°14 | 17°31 | 27°23 | 25° 3 | 18°45 | 26° 3 | 9° 2 | 0°21 | 26°54 | 25°23 | 28°21 | n.a. | S 25 |
| S 26 | 4 7 37 | 1°42'51 | 18° 3 | 12°37 | 18°36 | 27°59 | 24°55 | 18°51 | 26° 6 | 9° 1 | 0°20 | 26°56 | 25°19 | 28°28 | n.a. | S 26 |
| M27 | 4 11 33 | 2°44'07 | 29°49 | 14° 0 | 19°40 | 28°34 | 24°47 | 18°56 | 26° 8 | 9° 0 | 0°19 | 26°R56 | 25°16 | 28°35 | n.a. | M27 |
| T 28 | 4 15 30 | 3°45'24 | 11♏39 | 15°24 | 20°45 | 29°10 | 24°39 | 19° 2 | 26°10 | 8°59 | 0°18 | 26°55 | 25°13 | 28°41 | n.a. | T 28 |
| W29 | 4 19 26 | 4°46'40 | 23°34 | 16°49 | 21°49 | 29°46 | 24°31 | 19° 8 | 26°13 | 8°58 | 0°17 | 26°52 | 25°10 | 28°48 | n.a. | W29 |
| T 30 | 4 23 23 | 5♐47'57 | 5♐38 | 18♏14 | 22♑53 | 0♎21 | 24♉23 | 19♑14 | 26♑15 | 8♈57 | 0♉16 | 26♈46 | 25♈ 7 | 28♎55 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 13s45 | 18s 0 | 1s36 | 9s44 | 1n32 | 25s57 | 2s36 | 8n 9 | 1n29 | 19n16 | 0s44 | 23s21 | 0s44 | 21s55 | 0s38 | 1n58 | 2s 0 | 1s 9 | 13s53 | 10n37 | 10n23 | 9s58 | | n.a. |
| T 2 | 14 5 | 22 10 | 2 36 | 9 7 | 1 47 | 26 3 | 2 37 | 7 55 | 1 29 | 19 14 | 0 44 | 23 21 | 0 44 | 21 55 | 0 37 | 1 58 | 2 0 | 1 9 | 13 53 | 10 36 | 10 22 | 10 1 | | n.a. |
| F 3 | 14 25 | 25 28 | 3 30 | 8 35 | 2 1 | 26 8 | 2 38 | 7 41 | 1 30 | 19 13 | 0 44 | 23 21 | 0 44 | 21 55 | 0 37 | 1 57 | 2 0 | 1 9 | 13 53 | 10 36 | 10 21 | 10 4 | | n.a. |
| S 4 | 14 45 | 27 38 | 4 15 | 8 9 | 2 12 | 26 12 | 2 38 | 7 27 | 1 30 | 19 11 | 0 44 | 23 20 | 0 44 | 21 55 | 0 37 | 1 57 | 2 0 | 1 9 | 13 53 | 10 35 | 10 20 | 10 8 | | n.a. |
| S 5 | 15 5 | 28 30 | 4 49 | 7 49 | 2 21 | 26 16 | 2 39 | 7 13 | 1 30 | 19 10 | 0 44 | 23 19 | 0 44 | 21 54 | 0 37 | 1 56 | 2 0 | 1 10 | 13 53 | 10 35 | 10 19 | 10 11 | | n.a. |
| M 6 | 15 24 | 27 54 | 5 10 | 7 36 | 2 29 | 26 18 | 2 39 | 6 59 | 1 30 | 19 8 | 0 44 | 23 19 | 0 44 | 21 54 | 0 37 | 1 56 | 2 0 | 1 10 | 13 52 | 10 34 | 10 18 | 10 14 | | n.a. |
| T 7 | 15 43 | 25 50 | 5 16 | 7 27 | 2 34 | 26 20 | 2 39 | 6 45 | 1 30 | 19 6 | 0 44 | 23 18 | 0 44 | 21 54 | 0 37 | 1 55 | 2 0 | 1 10 | 13 52 | 10 33 | 10 16 | 10 17 | | n.a. |
| W 8 | 16 2 | 22 21 | 5 6 | 7 25 | 2 38 | 26 21 | 2 39 | 6 30 | 1 31 | 19 5 | 0 43 | 23 18 | 0 44 | 21 53 | 0 37 | 1 55 | 2 0 | 1 11 | 13 52 | 10 33 | 10 15 | 10 21 | | n.a. |
| T 9 | 16 20 | 17 37 | 4 39 | 7 28 | 2 39 | 26 22 | 2 39 | 6 16 | 1 31 | 19 3 | 0 43 | 23 17 | 0 44 | 21 53 | 0 37 | 1 54 | 2 0 | 1 11 | 13 52 | 10 33 | 10 14 | 10 24 | | n.a. |
| F 10 | 16 38 | 11 50 | 3 55 | 7 35 | 2 40 | 26 22 | 2 39 | 6 2 | 1 31 | 19 1 | 0 43 | 23 17 | 0 44 | 21 53 | 0 37 | 1 54 | 2 0 | 1 11 | 13 52 | 10 34 | 10 13 | 10 27 | | n.a. |
| S 11 | 16 56 | 5 18 | 2 56 | 7 46 | 2 39 | 26 21 | 2 39 | 5 48 | 1 31 | 19 0 | 0 43 | 23 16 | 0 44 | 21 52 | 0 37 | 1 53 | 2 0 | 1 11 | 13 52 | 10 34 | 10 12 | 10 30 | | n.a. |
| S 12 | 17 14 | 1n42 | 1 43 | 8 1 | 2 37 | 26 19 | 2 39 | 5 34 | 1 31 | 18 58 | 0 43 | 23 15 | 0 44 | 21 52 | 0 37 | 1 53 | 2 0 | 1 12 | 13 52 | 10 35 | 10 11 | 10 34 | | n.a. |
| M13 | 17 31 | 8 44 | 0 22 | 8 19 | 2 35 | 26 17 | 2 38 | 5 20 | 1 31 | 18 56 | 0 43 | 23 15 | 0 44 | 21 52 | 0 37 | 1 52 | 2 0 | 1 12 | 13 52 | 10 35 | 10 9 | 10 37 | | n.a. |
| T 14 | 17 48 | 15 22 | 1n 1 | 8 40 | 2 31 | 26 13 | 2 38 | 5 5 | 1 32 | 18 54 | 0 43 | 23 14 | 0 44 | 21 51 | 0 37 | 1 52 | 2 0 | 1 12 | 13 52 | 10 35 | 10 8 | 10 40 | | n.a. |
| W15 | 18 4 | 21 4 | 2 20 | 9 4 | 2 27 | 26 10 | 2 37 | 4 51 | 1 32 | 18 53 | 0 43 | 23 14 | 0 44 | 21 51 | 0 37 | 1 52 | 1 59 | 1 12 | 13 52 | 10 34 | 10 7 | 10 43 | | n.a. |
| T 16 | 18 21 | 25 22 | 3 28 | 9 29 | 2 22 | 26 5 | 2 36 | 4 37 | 1 32 | 18 51 | 0 43 | 23 13 | 0 44 | 21 51 | 0 37 | 1 51 | 1 59 | 1 13 | 13 51 | 10 33 | 10 6 | 10 47 | | n.a. |
| F 17 | 18 37 | 27 52 | 4 21 | 9 56 | 2 16 | 26 0 | 2 35 | 4 23 | 1 32 | 18 49 | 0 42 | 23 12 | 0 44 | 21 50 | 0 37 | 1 51 | 1 59 | 1 13 | 13 51 | 10 32 | 10 5 | 10 50 | | n.a. |
| S 18 | 18 52 | 28 26 | 4 56 | 10 24 | 2 11 | 25 54 | 2 34 | 4 8 | 1 32 | 18 47 | 0 42 | 23 12 | 0 44 | 21 50 | 0 37 | 1 50 | 1 59 | 1 13 | 13 51 | 10 31 | 10 4 | 10 53 | | n.a. |
| S 19 | 19 8 | 27 9 | 5 13 | 10 54 | 2 4 | 25 47 | 2 32 | 3 54 | 1 33 | 18 46 | 0 42 | 23 11 | 0 44 | 21 49 | 0 37 | 1 50 | 1 59 | 1 13 | 13 51 | 10 29 | 10 2 | 10 56 | | n.a. |
| M20 | 19 22 | 24 20 | 5 11 | 11 25 | 1 58 | 25 40 | 2 31 | 3 40 | 1 33 | 18 44 | 0 42 | 23 10 | 0 44 | 21 49 | 0 37 | 1 50 | 1 59 | 1 14 | 13 51 | 10 28 | 10 1 | 10 59 | | n.a. |
| T 21 | 19 37 | 20 22 | 4 54 | 11 56 | 1 51 | 25 32 | 2 29 | 3 26 | 1 33 | 18 42 | 0 42 | 23 9 | 0 44 | 21 49 | 0 37 | 1 49 | 1 59 | 1 14 | 13 51 | 10 28 | 10 0 | 11 3 | | n.a. |
| W22 | 19 51 | 15 37 | 4 23 | 12 28 | 1 44 | 25 23 | 2 28 | 3 11 | 1 33 | 18 40 | 0 42 | 23 9 | 0 44 | 21 48 | 0 37 | 1 49 | 1 59 | 1 14 | 13 50 | 10 27 | 9 59 | 11 6 | | n.a. |
| T 23 | 20 5 | 10 21 | 3 40 | 13 0 | 1 37 | 25 14 | 2 26 | 2 57 | 1 33 | 18 38 | 0 42 | 23 8 | 0 44 | 21 48 | 0 37 | 1 49 | 1 59 | 1 14 | 13 50 | 10 28 | 9 58 | 11 9 | | n.a. |
| F 24 | 20 18 | 4 49 | 2 49 | 13 32 | 1 29 | 25 4 | 2 24 | 2 43 | 1 33 | 18 36 | 0 41 | 23 7 | 0 44 | 21 47 | 0 37 | 1 48 | 1 59 | 1 14 | 13 50 | 10 28 | 9 57 | 11 12 | | n.a. |
| S 25 | 20 32 | 0s50 | 1 51 | 14 4 | 1 22 | 24 53 | 2 22 | 2 29 | 1 33 | 18 35 | 0 41 | 23 6 | 0 44 | 21 47 | 0 37 | 1 48 | 1 59 | 1 14 | 13 50 | 10 29 | 9 55 | 11 16 | | n.a. |
| S 26 | 20 44 | 6 25 | 0 48 | 14 37 | 1 14 | 24 42 | 2 19 | 2 14 | 1 34 | 18 33 | 0 41 | 23 6 | 0 44 | 21 46 | 0 37 | 1 48 | 1 59 | 1 15 | 13 50 | 10 30 | 9 54 | 11 19 | | n.a. |
| M27 | 20 57 | 11 47 | 0s16 | 15 9 | 1 7 | 24 30 | 2 17 | 2 0 | 1 34 | 18 31 | 0 41 | 23 5 | 0 44 | 21 46 | 0 37 | 1 47 | 1 59 | 1 15 | 13 50 | 10 30 | 9 53 | 11 22 | | n.a. |
| T 28 | 21 8 | 16 45 | 1 19 | 15 41 | 0 59 | 24 18 | 2 14 | 1 46 | 1 34 | 18 29 | 0 41 | 23 4 | 0 44 | 21 45 | 0 37 | 1 47 | 1 59 | 1 15 | 13 49 | 10 29 | 9 52 | 11 25 | | n.a. |
| W29 | 21 20 | 21 8 | 2 20 | 16 13 | 0 52 | 24 5 | 2 12 | 1 32 | 1 34 | 18 27 | 0 41 | 23 3 | 0 44 | 21 45 | 0 37 | 1 47 | 1 59 | 1 15 | 13 49 | 10 28 | 9 51 | 11 28 | | n.a. |
| T 30 | 21s31 | 24s41 | 3s15 | 16s45 | 0n44 | 23s51 | 2s 9 | 1n18 | 1n34 | 18n26 | 0s40 | 23s 3 | 0s44 | 21s44 | 0s37 | 1n46 | 1s59 | 1s15 | 13s49 | 10n26 | 9n49 | 11s32 | | n.a. |

Julian Day Number = 1685202.5, Delta T = 03h13m22s
Ecliptic obliquity = 23°42'34, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°26'04, Lahiri = - 5°19'03 Julian Calendar 1 Nov. 100 BCE == Greg. Calendar 30 Oct. 100 BCE

The year -99 astronomical counting style corresponds to year 100 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 100 BCE
# geocentric

## DECEMBER 100 BCE (-99) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 4 27 19 | 6♐49'14 | 17♐51 | 19♏41 | 23♑56 | 0♎57 | 24°R15 | 19♑20 | 26♑18 | 8°R57 | 0°R15 | 26°R40 | 25♈ 3 | 29♎ 1 | n.a. | F 1 |
| S 2 | 4 31 16 | 7°50'31 | 0♑14 | 21° 8 | 25° 0 | 1°32 | 24♉ 8 | 19°26 | 26°20 | 8♈56 | 0♉14 | 26♈32 | 25° 0 | 29° 8 | n.a. | S 2 |
| S 3 | 4 35 13 | 8°51'48 | 12°50 | 22°36 | 26° 3 | 2° 7 | 24° 0 | 19°32 | 26°23 | 8°55 | 0°14 | 26°24 | 24°57 | 29°15 | n.a. | S 3 |
| M 4 | 4 39 9 | 9°53'05 | 25°37 | 24° 4 | 27° 5 | 2°43 | 23°52 | 19°38 | 26°25 | 8°55 | 0°13 | 26°16 | 24°54 | 29°21 | n.a. | M 4 |
| T 5 | 4 43 6 | 10°54'21 | 8♒37 | 25°33 | 28° 7 | 3°18 | 23°45 | 19°44 | 26°28 | 8°54 | 0°12 | 26°10 | 24°51 | 29°28 | n.a. | T 5 |
| W 6 | 4 47 2 | 11°55'37 | 21°50 | 27° 2 | 29° 9 | 3°53 | 23°38 | 19°51 | 26°31 | 8°54 | 0°11 | 26° 6 | 24°48 | 29°34 | n.a. | W 6 |
| T 7 | 4 50 59 | 12°56'52 | 5♓19 | 28°32 | 0♒10 | 4°28 | 23°30 | 19°57 | 26°33 | 8°53 | 0°10 | 26° 4 | 24°44 | 29°41 | n.a. | T 7 |
| F 8 | 4 54 55 | 13°58'07 | 19° 4 | 0♐ 2 | 1°11 | 5° 4 | 23°23 | 20° 3 | 26°36 | 8°52 | 0° 9 | 26°D 4 | 24°41 | 29°48 | n.a. | F 8 |
| S 9 | 4 58 52 | 14°59'21 | 3♈ 6 | 1°33 | 2°12 | 5°39 | 23°16 | 20° 9 | 26°39 | 8°52 | 0° 9 | 26° 5 | 24°38 | 29°54 | n.a. | S 9 |
| S 10 | 5 2 48 | 16° 0'35 | 17°24 | 3° 4 | 3°12 | 6°14 | 23° 9 | 20°16 | 26°42 | 8°52 | 0° 8 | 26° 6 | 24°35 | 0♏ 1 | n.a. | S 10 |
| M11 | 5 6 45 | 17° 1'48 | 1♉57 | 4°35 | 4°12 | 6°49 | 23° 2 | 20°22 | 26°45 | 8°51 | 0° 7 | 26°R 6 | 24°32 | 0° 8 | n.a. | M11 |
| T 12 | 5 10 42 | 18° 3'00 | 16°42 | 6° 7 | 5°11 | 7°23 | 22°55 | 20°29 | 26°47 | 8°51 | 0° 6 | 26° 4 | 24°29 | 0°14 | n.a. | T 12 |
| W13 | 5 14 38 | 19° 4'12 | 1♊31 | 7°40 | 6°10 | 7°58 | 22°49 | 20°35 | 26°50 | 8°50 | 0° 6 | 26° 0 | 24°25 | 0°21 | n.a. | W13 |
| T 14 | 5 18 35 | 20° 5'23 | 16°18 | 9°13 | 7° 8 | 8°33 | 22°42 | 20°42 | 26°53 | 8°50 | 0° 5 | 25°53 | 24°22 | 0°28 | n.a. | T 14 |
| F 15 | 5 22 31 | 21° 6'34 | 0♋55 | 10°46 | 8° 5 | 9° 8 | 22°36 | 20°49 | 26°56 | 8°50 | 0° 4 | 25°45 | 24°19 | 0°34 | n.a. | F 15 |
| S 16 | 5 26 28 | 22° 7'44 | 15°14 | 12°20 | 9° 2 | 9°42 | 22°30 | 20°55 | 26°59 | 8°50 | 0° 4 | 25°35 | 24°16 | 0°41 | n.a. | S 16 |
| S 17 | 5 30 24 | 23° 8'54 | 29°10 | 13°55 | 9°59 | 10°17 | 22°24 | 21° 2 | 27° 2 | 8°49 | 0° 3 | 25°26 | 24°13 | 0°48 | n.a. | S 17 |
| M18 | 5 34 21 | 24°10'03 | 12♌39 | 15°29 | 10°55 | 10°52 | 22°18 | 21° 9 | 27° 5 | 8°49 | 0° 3 | 25°17 | 24° 9 | 0°54 | n.a. | M18 |
| T 19 | 5 38 18 | 25°11'12 | 25°42 | 17° 5 | 11°50 | 11°26 | 22°12 | 21°15 | 27° 8 | 8°49 | 0° 2 | 25°11 | 24° 6 | 1° 1 | n.a. | T 19 |
| W20 | 5 42 14 | 26°12'20 | 8♍20 | 18°41 | 12°45 | 12° 0 | 22° 6 | 21°22 | 27°11 | 8°49 | 0° 1 | 25° 7 | 24° 3 | 1° 8 | n.a. | W20 |
| T 21 | 5 46 11 | 27°13'28 | 20°37 | 20°17 | 13°39 | 12°35 | 22° 1 | 21°29 | 27°15 | 8°49 | 0° 1 | 25° 5 | 24° 0 | 1°14 | n.a. | T 21 |
| F 22 | 5 50 7 | 28°14'35 | 2♎39 | 21°54 | 14°32 | 13° 9 | 21°55 | 21°36 | 27°18 | 8°49 | 0° 0 | 25°D 5 | 23°57 | 1°21 | n.a. | F 22 |
| S 23 | 5 54 4 | 29°15'42 | 14°30 | 23°32 | 15°25 | 13°43 | 21°50 | 21°43 | 27°21 | 8°D49 | 29♈59 | 25° 5 | 23°54 | 1°27 | n.a. | S 23 |
| S 24 | 5 58 0 | 0♑16'48 | 26°17 | 25°10 | 16°17 | 14°17 | 21°45 | 21°50 | 27°24 | 8°49 | 29°59 | 25°R 6 | 23°50 | 1°34 | n.a. | S 24 |
| M25 | 6 1 57 | 1°17'54 | 8♏ 4 | 26°48 | 17° 8 | 14°51 | 21°41 | 21°57 | 27°27 | 8°49 | 29°59 | 25° 5 | 23°47 | 1°41 | n.a. | M25 |
| T 26 | 6 5 53 | 2°18'58 | 19°56 | 28°28 | 17°58 | 15°25 | 21°36 | 22° 4 | 27°30 | 8°49 | 29°58 | 25° 2 | 23°44 | 1°47 | n.a. | T 26 |
| W27 | 6 9 50 | 3°20'03 | 1♐58 | 0♑ 8 | 18°47 | 15°59 | 21°32 | 22°11 | 27°34 | 8°49 | 29°58 | 24°56 | 23°41 | 1°54 | n.a. | W27 |
| T 28 | 6 13 47 | 4°21'06 | 14°11 | 1°48 | 19°36 | 16°33 | 21°27 | 22°18 | 27°37 | 8°49 | 29°57 | 24°47 | 23°38 | 2° 1 | n.a. | T 28 |
| F 29 | 6 17 43 | 5°22'08 | 26°39 | 3°30 | 20°24 | 17° 7 | 21°23 | 22°25 | 27°40 | 8°50 | 29°57 | 24°36 | 23°35 | 2° 7 | n.a. | F 29 |
| S 30 | 6 21 40 | 6°23'10 | 9♑21 | 5°12 | 21°11 | 17°41 | 21°19 | 22°32 | 27°43 | 8°50 | 29°57 | 24°23 | 23°31 | 2°14 | n.a. | S 30 |
| S 31 | 6 25 36 | 7♑24'10 | 22♑17 | 6♑54 | 21♒57 | 18♎14 | 21♉16 | 22♑39 | 27♑47 | 8♈50 | 29♈56 | 24♈10 | 23♈28 | 2♏21 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 21s42 | 27s 9 | 4s 1 | 17s16 | 0n37 | 23s37 | 2s 6 | 1n 4 | 1n34 | 18n24 | 0s40 | 23s 2 | 0s44 | 21s44 | 0s37 | 1n46 | 1s59 | 1s15 | 13s49 | 10n24 | 9n48 | 11s35 | | n.a. |
| S 2 | 21 52 | 28 20 | 4 37 | 17 47 | 0 29 | 23 23 | 2 2 | 0 49 | 1 34 | 18 22 | 0 40 | 23 1 | 0 44 | 21 43 | 0 37 | 1 46 | 1 59 | 1 15 | 13 49 | 10 21 | 9 47 | 11 38 | | n.a. |
| S 3 | 22 2 | 28 4 | 5 0 | 18 17 | 0 22 | 23 7 | 1 59 | 0 35 | 1 35 | 18 20 | 0 40 | 23 0 | 0 44 | 21 43 | 0 37 | 1 46 | 1 59 | 1 15 | 13 48 | 10 18 | 9 46 | 11 41 | | n.a. |
| M 4 | 22 11 | 26 19 | 5 9 | 18 46 | 0 14 | 22 52 | 1 55 | 0 21 | 1 35 | 18 19 | 0 40 | 22 59 | 0 44 | 21 42 | 0 37 | 1 46 | 1 58 | 1 15 | 13 48 | 10 15 | 9 45 | 11 45 | | n.a. |
| T 5 | 22 20 | 23 9 | 5 2 | 19 15 | 0 7 | 22 35 | 1 51 | 0 7 | 1 35 | 18 17 | 0 39 | 22 58 | 0 44 | 21 42 | 0 37 | 1 45 | 1 58 | 1 16 | 13 48 | 10 13 | 9 44 | 11 48 | | n.a. |
| W 6 | 22 28 | 18 46 | 4 38 | 19 43 | 0s 0 | 22 19 | 1 48 | 0s 7 | 1 35 | 18 15 | 0 39 | 22 57 | 0 44 | 21 41 | 0 37 | 1 45 | 1 58 | 1 16 | 13 48 | 10 11 | 9 42 | 11 51 | | n.a. |
| T 7 | 22 36 | 13 22 | 4 0 | 20 11 | 0 7 | 22 1 | 1 43 | 0 21 | 1 35 | 18 14 | 0 39 | 22 56 | 0 44 | 21 41 | 0 37 | 1 45 | 1 58 | 1 16 | 13 47 | 10 11 | 9 41 | 11 54 | | n.a. |
| F 8 | 22 44 | 7 14 | 3 6 | 20 37 | 0 14 | 21 44 | 1 39 | 0 35 | 1 35 | 18 12 | 0 39 | 22 56 | 0 44 | 21 40 | 0 37 | 1 45 | 1 58 | 1 16 | 13 47 | 10 11 | 9 40 | 11 57 | | n.a. |
| S 9 | 22 51 | 0 36 | 2 1 | 21 3 | 0 21 | 21 26 | 1 35 | 0 49 | 1 35 | 18 10 | 0 39 | 22 55 | 0 44 | 21 40 | 0 37 | 1 45 | 1 58 | 1 16 | 13 47 | 10 11 | 9 39 | 12 0 | | n.a. |
| S 10 | 22 58 | 6n11 | 0 47 | 21 28 | 0 28 | 21 7 | 1 30 | 1 3 | 1 35 | 18 9 | 0 39 | 22 54 | 0 45 | 21 39 | 0 37 | 1 45 | 1 58 | 1 16 | 13 47 | 10 11 | 9 38 | 12 4 | | n.a. |
| M11 | 23 4 | 12 47 | 0n31 | 21 52 | 0 34 | 20 48 | 1 25 | 1 17 | 1 35 | 18 7 | 0 38 | 22 53 | 0 45 | 21 39 | 0 37 | 1 45 | 1 58 | 1 16 | 13 47 | 10 11 | 9 37 | 12 7 | | n.a. |
| T 12 | 23 10 | 18 45 | 1 49 | 22 15 | 0 41 | 20 29 | 1 20 | 1 30 | 1 35 | 18 6 | 0 38 | 22 52 | 0 45 | 21 38 | 0 37 | 1 44 | 1 58 | 1 16 | 13 46 | 10 11 | 9 35 | 12 10 | | n.a. |
| W13 | 23 15 | 23 36 | 2 58 | 22 37 | 0 47 | 20 9 | 1 15 | 1 44 | 1 36 | 18 4 | 0 38 | 22 51 | 0 45 | 21 37 | 0 37 | 1 44 | 1 58 | 1 16 | 13 46 | 10 9 | 9 34 | 12 13 | | n.a. |
| T 14 | 23 20 | 26 55 | 3 56 | 22 57 | 0 53 | 19 49 | 1 10 | 1 58 | 1 36 | 18 3 | 0 38 | 22 50 | 0 45 | 21 37 | 0 37 | 1 44 | 1 58 | 1 16 | 13 46 | 10 7 | 9 33 | 12 16 | | n.a. |
| F 15 | 23 24 | 28 20 | 4 37 | 23 17 | 0 59 | 19 29 | 1 4 | 2 12 | 1 36 | 18 1 | 0 37 | 22 49 | 0 45 | 21 36 | 0 37 | 1 44 | 1 58 | 1 16 | 13 46 | 10 4 | 9 32 | 12 20 | | n.a. |
| S 16 | 23 28 | 27 48 | 5 0 | 23 36 | 1 5 | 19 8 | 0 59 | 2 25 | 1 36 | 18 0 | 0 37 | 22 48 | 0 45 | 21 36 | 0 37 | 1 44 | 1 58 | 1 16 | 13 45 | 10 0 | 9 31 | 12 23 | | n.a. |
| S 17 | 23 32 | 25 31 | 5 5 | 23 53 | 1 10 | 18 47 | 0 53 | 2 39 | 1 36 | 17 59 | 0 37 | 22 47 | 0 45 | 21 35 | 0 37 | 1 44 | 1 58 | 1 16 | 13 45 | 9 56 | 9 29 | 12 26 | | n.a. |
| M18 | 23 35 | 21 51 | 4 52 | 24 10 | 1 16 | 18 26 | 0 47 | 2 53 | 1 36 | 17 57 | 0 37 | 22 46 | 0 45 | 21 34 | 0 37 | 1 44 | 1 58 | 1 16 | 13 45 | 9 53 | 9 28 | 12 29 | | n.a. |
| T 19 | 23 37 | 17 13 | 4 23 | 24 25 | 1 21 | 18 5 | 0 40 | 3 6 | 1 36 | 17 56 | 0 37 | 22 45 | 0 45 | 21 34 | 0 37 | 1 44 | 1 58 | 1 16 | 13 44 | 9 51 | 9 27 | 12 32 | | n.a. |
| W20 | 23 39 | 11 59 | 3 43 | 24 38 | 1 25 | 17 43 | 0 34 | 3 20 | 1 36 | 17 55 | 0 36 | 22 44 | 0 45 | 21 33 | 0 37 | 1 44 | 1 57 | 1 16 | 13 44 | 9 49 | 9 26 | 12 35 | | n.a. |
| T 21 | 23 41 | 6 25 | 2 54 | 24 51 | 1 30 | 17 21 | 0 27 | 3 33 | 1 36 | 17 54 | 0 36 | 22 43 | 0 45 | 21 33 | 0 37 | 1 44 | 1 57 | 1 16 | 13 44 | 9 49 | 9 25 | 12 39 | | n.a. |
| F 22 | 23 42 | 0 43 | 1 57 | 25 2 | 1 34 | 16 59 | 0 20 | 3 47 | 1 36 | 17 52 | 0 36 | 22 42 | 0 45 | 21 32 | 0 37 | 1 44 | 1 57 | 1 15 | 13 44 | 9 49 | 9 24 | 12 42 | | n.a. |
| S 23 | 23 42 | 4s55 | 0 56 | 25 11 | 1 38 | 16 37 | 0 13 | 4 0 | 1 36 | 17 51 | 0 36 | 22 41 | 0 45 | 21 31 | 0 37 | 1 44 | 1 57 | 1 15 | 13 43 | 9 49 | 9 22 | 12 45 | | n.a. |
| S 24 | 23 43 | 10 21 | 0s 6 | 25 19 | 1 42 | 16 14 | 0 6 | 4 13 | 1 36 | 17 50 | 0 36 | 22 40 | 0 45 | 21 31 | 0 37 | 1 44 | 1 57 | 1 15 | 13 43 | 9 49 | 9 21 | 12 48 | | n.a. |
| M25 | 23 42 | 15 26 | 1 9 | 25 26 | 1 46 | 15 51 | 0n 1 | 4 26 | 1 36 | 17 49 | 0 35 | 22 38 | 0 45 | 21 30 | 0 36 | 1 44 | 1 57 | 1 15 | 13 43 | 9 49 | 9 20 | 12 51 | | n.a. |
| T 26 | 23 41 | 19 59 | 2 8 | 25 31 | 1 49 | 15 29 | 0 9 | 4 40 | 1 36 | 17 48 | 0 35 | 22 37 | 0 45 | 21 29 | 0 36 | 1 45 | 1 57 | 1 15 | 13 43 | 9 48 | 9 19 | 12 54 | | n.a. |
| W27 | 23 40 | 23 46 | 3 3 | 25 34 | 1 52 | 15 6 | 0 17 | 4 53 | 1 36 | 17 47 | 0 35 | 22 36 | 0 45 | 21 29 | 0 36 | 1 45 | 1 57 | 1 15 | 13 42 | 9 45 | 9 18 | 12 58 | | n.a. |
| T 28 | 23 38 | 26 34 | 3 50 | 25 36 | 1 54 | 14 43 | 0 25 | 5 6 | 1 36 | 17 46 | 0 35 | 22 35 | 0 45 | 21 28 | 0 36 | 1 45 | 1 57 | 1 15 | 13 42 | 9 42 | 9 16 | 13 1 | | n.a. |
| F 29 | 23 36 | 28 7 | 4 27 | 25 36 | 1 57 | 14 20 | 0 33 | 5 19 | 1 36 | 17 46 | 0 34 | 22 34 | 0 45 | 21 27 | 0 36 | 1 45 | 1 57 | 1 15 | 13 42 | 9 38 | 9 15 | 13 4 | | n.a. |
| S 30 | 23 33 | 28 13 | 4 51 | 25 35 | 1 59 | 13 57 | 0 41 | 5 32 | 1 36 | 17 45 | 0 34 | 22 33 | 0 45 | 21 27 | 0 36 | 1 45 | 1 57 | 1 15 | 13 41 | 9 33 | 9 14 | 13 7 | | n.a. |
| S 31 | 23s30 | 26s47 | 5s 1 | 25s31 | 2s 0 | 13s34 | 0n50 | 5s45 | 1n36 | 17n44 | 0s34 | 22s32 | 0s45 | 21s26 | 0s36 | 1n45 | 1s57 | 1s14 | 13s41 | 9n29 | 9n13 | 13s10 | | n.a. |

Julian Day Number = 1685232.5, Delta T = 03h13m21s
Ecliptic obliquity = 23°42'33, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°26'00, Lahiri = - 5°18'59 Julian Calendar 1 Dec. 100 BCE == Greg. Calendar 29 Nov. 100 BCE

The year -99 astronomical counting style corresponds to year 100 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 99 BCE
# geocentric

## JANUARY 99 BCE (-98) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 6 29 33 | 8♑25'09 | 5♒26 | 8♑37 | 22♒41 | 18♎48 | 21°R12 | 22♑46 | 27♑50 | 8♈50 | 29°R56 | 23°R58 | 23♈25 | 2♏27 | n.a. | M 1 |
| T 2 | 6 33 29 | 9°26'06 | 18°46 | 10°21 | 23°25 | 19°21 | 21♉ 9 | 22°53 | 27°53 | 8°51 | 29♈56 | 23♈47 | 23°22 | 2°34 | n.a. | T 2 |
| W 3 | 6 37 26 | 10°27'02 | 2♓17 | 12° 6 | 24° 8 | 19°54 | 21° 6 | 23° 0 | 27°57 | 8°51 | 29°55 | 23°39 | 23°19 | 2°41 | n.a. | W 3 |
| T 4 | 6 41 23 | 11°27'57 | 15°57 | 13°51 | 24°49 | 20°27 | 21° 3 | 23° 7 | 28° 0 | 8°52 | 29°55 | 23°34 | 23°15 | 2°47 | n.a. | T 4 |
| F 5 | 6 45 19 | 12°28'50 | 29°45 | 15°37 | 25°30 | 21° 1 | 21° 0 | 23°15 | 28° 3 | 8°52 | 29°55 | 23°32 | 23°12 | 2°54 | n.a. | F 5 |
| S 6 | 6 49 16 | 13°29'42 | 13♈42 | 17°23 | 26° 9 | 21°34 | 20°58 | 23°22 | 28° 7 | 8°52 | 29°55 | 23°D32 | 23° 9 | 3° 1 | n.a. | S 6 |
| S 7 | 6 53 12 | 14°30'32 | 27°47 | 19°10 | 26°47 | 22° 6 | 20°55 | 23°29 | 28°10 | 8°53 | 29°54 | 23°R32 | 23° 6 | 3° 7 | n.a. | S 7 |
| M 8 | 6 57 9 | 15°31'20 | 12♉ 0 | 20°58 | 27°23 | 22°39 | 20°53 | 23°36 | 28°14 | 8°54 | 29°54 | 23°31 | 23° 3 | 3°14 | n.a. | M 8 |
| T 9 | 7 1 5 | 16°32'06 | 26°19 | 22°46 | 27°58 | 23°12 | 20°51 | 23°43 | 28°17 | 8°54 | 29°54 | 23°28 | 23° 0 | 3°20 | n.a. | T 9 |
| W10 | 7 5 2 | 17°32'51 | 10♊41 | 24°34 | 28°32 | 23°45 | 20°49 | 23°51 | 28°20 | 8°55 | 29°54 | 23°22 | 22°56 | 3°27 | n.a. | W10 |
| T 11 | 7 8 58 | 18°33'35 | 25° 2 | 26°23 | 29° 4 | 24°17 | 20°48 | 23°58 | 28°24 | 8°55 | 29°54 | 23°13 | 22°53 | 3°34 | n.a. | T 11 |
| F 12 | 7 12 55 | 19°34'16 | 9♋17 | 28°12 | 29°35 | 24°50 | 20°47 | 24° 5 | 28°27 | 8°56 | 29°54 | 23° 2 | 22°50 | 3°40 | n.a. | F 12 |
| S 13 | 7 16 52 | 20°34'57 | 23°19 | 0♒ 1 | 0♓ 4 | 25°22 | 20°45 | 24°13 | 28°31 | 8°57 | 29°54 | 22°49 | 22°47 | 3°47 | n.a. | S 13 |
| S 14 | 7 20 48 | 21°35'35 | 7♌ 3 | 1°50 | 0°31 | 25°54 | 20°44 | 24°20 | 28°34 | 8°58 | 29°54 | 22°36 | 22°44 | 3°54 | n.a. | S 14 |
| M15 | 7 24 45 | 22°36'12 | 20°26 | 3°38 | 0°57 | 26°26 | 20°44 | 24°27 | 28°38 | 8°58 | 29°53 | 22°25 | 22°41 | 4° 0 | n.a. | M15 |
| T 16 | 7 28 41 | 23°36'48 | 3♍26 | 5°26 | 1°20 | 26°58 | 20°43 | 24°34 | 28°41 | 8°59 | 29°D53 | 22°15 | 22°37 | 4° 7 | n.a. | T 16 |
| W17 | 7 32 38 | 24°37'22 | 16° 5 | 7°13 | 1°42 | 27°30 | 20°43 | 24°42 | 28°45 | 9° 0 | 29°53 | 22° 8 | 22°34 | 4°14 | n.a. | W17 |
| T 18 | 7 36 34 | 25°37'55 | 28°24 | 8°59 | 2° 2 | 28° 2 | 20°D43 | 24°49 | 28°48 | 9° 1 | 29°53 | 22° 4 | 22°31 | 4°20 | n.a. | T 18 |
| F 19 | 7 40 31 | 26°38'26 | 10♎28 | 10°43 | 2°20 | 28°33 | 20°43 | 24°56 | 28°51 | 9° 2 | 29°54 | 22° 3 | 22°28 | 4°27 | n.a. | F 19 |
| S 20 | 7 44 27 | 27°38'56 | 22°21 | 12°25 | 2°36 | 29° 5 | 20°43 | 25° 3 | 28°55 | 9° 3 | 29°54 | 22° 2 | 22°25 | 4°34 | n.a. | S 20 |
| S 21 | 7 48 24 | 28°39'24 | 4♏ 9 | 14° 5 | 2°50 | 29°36 | 20°44 | 25°11 | 28°58 | 9° 4 | 29°54 | 22° 2 | 22°21 | 4°40 | n.a. | S 21 |
| M22 | 7 52 21 | 29°39'51 | 15°58 | 15°42 | 3° 1 | 0♏ 7 | 20°44 | 25°18 | 29° 2 | 9° 5 | 29°54 | 22° 1 | 22°18 | 4°47 | n.a. | M22 |
| T 23 | 7 56 17 | 0♒40'17 | 27°52 | 17°15 | 3°11 | 0°38 | 20°45 | 25°25 | 29° 5 | 9° 6 | 29°54 | 21°59 | 22°15 | 4°54 | n.a. | T 23 |
| W24 | 8 0 14 | 1°40'41 | 9♐58 | 18°44 | 3°18 | 1° 9 | 20°46 | 25°32 | 29° 9 | 9° 7 | 29°54 | 21°53 | 22°12 | 5° 0 | n.a. | W24 |
| T 25 | 8 4 10 | 2°41'03 | 22°18 | 20° 9 | 3°22 | 1°40 | 20°47 | 25°40 | 29°12 | 9° 8 | 29°54 | 21°45 | 22° 9 | 5° 7 | n.a. | T 25 |
| F 26 | 8 8 7 | 3°41'24 | 4♑56 | 21°28 | 3°R25 | 2°11 | 20°49 | 25°47 | 29°16 | 9° 9 | 29°55 | 21°35 | 22° 6 | 5°14 | n.a. | F 26 |
| S 27 | 8 12 3 | 4°41'43 | 17°53 | 22°41 | 3°25 | 2°41 | 20°51 | 25°54 | 29°19 | 9°10 | 29°55 | 21°22 | 22° 2 | 5°20 | n.a. | S 27 |
| S 28 | 8 16 0 | 5°42'00 | 1♒ 8 | 23°48 | 3°22 | 3°12 | 20°52 | 26° 1 | 29°23 | 9°12 | 29°55 | 21° 9 | 21°59 | 5°27 | n.a. | S 28 |
| M29 | 8 19 56 | 6°42'16 | 14°41 | 24°47 | 3°17 | 3°42 | 20°55 | 26° 9 | 29°26 | 9°13 | 29°55 | 20°57 | 21°56 | 5°33 | n.a. | M29 |
| T 30 | 8 23 53 | 7°42'29 | 28°27 | 25°38 | 3° 9 | 4°12 | 20°57 | 26°16 | 29°30 | 9°14 | 29°56 | 20°47 | 21°53 | 5°40 | n.a. | T 30 |
| W31 | 8 27 50 | 8♒42'40 | 12♓23 | 26♒22 | 2♓59 | 4♏42 | 20♉59 | 26♑23 | 29♑33 | 9♈15 | 29♈56 | 20♈39 | 21♈50 | 5♏47 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| M 1 | 23 s26 | 23 s53 | 4 s55 | 25 s26 | 2 s 1 | 13 s11 | 0n59 | 5 s58 | 1n36 | 17n43 | 0 s34 | 22 s31 | 0 s46 | 21 s25 | 0 s36 | 1n46 | 1 s57 | 1 s14 | 13 s41 | 9n24 | 9n12 | 13 s13 | | | n.a. |
| T 2 | 23 22 | 19 41 | 4 33 | 25 19 | 2 2 | 12 48 | 1 8 | 6 10 | 1 36 | 17 43 | 0 34 | 22 29 | 0 46 | 21 25 | 0 36 | 1 46 | 1 57 | 1 14 | 13 40 | 9 20 | 9 11 | 13 16 | | | n.a. |
| W 3 | 23 18 | 14 27 | 3 56 | 25 11 | 2 2 | 12 25 | 1 17 | 6 23 | 1 36 | 17 42 | 0 33 | 22 28 | 0 46 | 21 24 | 0 36 | 1 46 | 1 57 | 1 14 | 13 40 | 9 17 | 9 9 | 13 20 | | | n.a. |
| T 4 | 23 12 | 8 26 | 3 5 | 25 0 | 2 2 | 12 2 | 1 27 | 6 36 | 1 36 | 17 41 | 0 33 | 22 27 | 0 46 | 21 23 | 0 36 | 1 46 | 1 56 | 1 14 | 13 40 | 9 15 | 9 8 | 13 23 | | | n.a. |
| F 5 | 23 7 | 1 58 | 2 2 | 24 47 | 2 1 | 11 39 | 1 36 | 6 48 | 1 36 | 17 41 | 0 33 | 22 26 | 0 46 | 21 23 | 0 36 | 1 46 | 1 56 | 1 13 | 13 40 | 9 14 | 9 7 | 13 26 | | | n.a. |
| S 6 | 23 1 | 4n40 | 0 52 | 24 33 | 2 0 | 11 17 | 1 46 | 7 1 | 1 36 | 17 40 | 0 33 | 22 25 | 0 46 | 21 22 | 0 36 | 1 47 | 1 56 | 1 13 | 13 39 | 9 14 | 9 6 | 13 29 | | | n.a. |
| S 7 | 22 55 | 11 9 | 0n22 | 24 16 | 1 58 | 10 54 | 1 56 | 7 13 | 1 36 | 17 40 | 0 32 | 22 24 | 0 46 | 21 21 | 0 36 | 1 47 | 1 56 | 1 13 | 13 39 | 9 14 | 9 5 | 13 32 | | | n.a. |
| M 8 | 22 48 | 17 8 | 1 36 | 23 58 | 1 56 | 10 32 | 2 7 | 7 26 | 1 36 | 17 40 | 0 32 | 22 22 | 0 46 | 21 21 | 0 36 | 1 47 | 1 56 | 1 13 | 13 39 | 9 14 | 9 3 | 13 35 | | | n.a. |
| T 9 | 22 40 | 22 12 | 2 44 | 23 37 | 1 53 | 10 10 | 2 17 | 7 38 | 1 36 | 17 39 | 0 32 | 22 21 | 0 46 | 21 20 | 0 36 | 1 47 | 1 56 | 1 13 | 13 38 | 9 13 | 9 2 | 13 38 | | | n.a. |
| W10 | 22 33 | 25 57 | 3 42 | 23 15 | 1 50 | 9 48 | 2 28 | 7 50 | 1 36 | 17 39 | 0 32 | 22 20 | 0 46 | 21 19 | 0 36 | 1 48 | 1 56 | 1 12 | 13 38 | 9 11 | 9 1 | 13 41 | | | n.a. |
| T 11 | 22 24 | 28 2 | 4 25 | 22 51 | 1 46 | 9 27 | 2 39 | 8 2 | 1 36 | 17 39 | 0 31 | 22 19 | 0 46 | 21 19 | 0 36 | 1 48 | 1 56 | 1 12 | 13 38 | 9 7 | 9 0 | 13 44 | | | n.a. |
| F 12 | 22 16 | 28 14 | 4 52 | 22 24 | 1 41 | 9 6 | 2 50 | 8 14 | 1 36 | 17 39 | 0 31 | 22 18 | 0 46 | 21 18 | 0 36 | 1 48 | 1 56 | 1 12 | 13 37 | 9 3 | 8 59 | 13 48 | | | n.a. |
| S 13 | 22 7 | 26 36 | 5 0 | 21 56 | 1 36 | 8 45 | 3 1 | 8 26 | 1 35 | 17 39 | 0 31 | 22 16 | 0 46 | 21 17 | 0 36 | 1 49 | 1 56 | 1 12 | 13 37 | 8 58 | 8 57 | 13 51 | | | n.a. |
| S 14 | 21 57 | 23 24 | 4 51 | 21 26 | 1 30 | 8 25 | 3 13 | 8 38 | 1 35 | 17 39 | 0 31 | 22 15 | 0 46 | 21 16 | 0 36 | 1 49 | 1 56 | 1 11 | 13 37 | 8 53 | 8 56 | 13 54 | | | n.a. |
| M15 | 21 47 | 19 2 | 4 26 | 20 54 | 1 23 | 8 5 | 3 24 | 8 50 | 1 35 | 17 39 | 0 31 | 22 14 | 0 46 | 21 16 | 0 36 | 1 50 | 1 56 | 1 11 | 13 36 | 8 49 | 8 55 | 13 57 | | | n.a. |
| T 16 | 21 37 | 13 52 | 3 47 | 20 21 | 1 16 | 7 46 | 3 36 | 9 2 | 1 35 | 17 39 | 0 30 | 22 13 | 0 46 | 21 15 | 0 36 | 1 50 | 1 56 | 1 11 | 13 36 | 8 46 | 8 54 | 14 0 | | | n.a. |
| W17 | 21 26 | 8 17 | 2 58 | 19 46 | 1 7 | 7 27 | 3 48 | 9 13 | 1 35 | 17 39 | 0 30 | 22 11 | 0 47 | 21 14 | 0 36 | 1 50 | 1 56 | 1 10 | 13 36 | 8 43 | 8 53 | 14 3 | | | n.a. |
| T 18 | 21 15 | 2 30 | 2 2 | 19 9 | 0 59 | 7 8 | 4 0 | 9 25 | 1 35 | 17 39 | 0 30 | 22 10 | 0 47 | 21 14 | 0 36 | 1 51 | 1 56 | 1 10 | 13 35 | 8 41 | 8 51 | 14 6 | | | n.a. |
| F 19 | 21 4 | 3 s15 | 1 1 | 18 32 | 0 49 | 6 51 | 4 12 | 9 37 | 1 35 | 17 39 | 0 30 | 22 9 | 0 47 | 21 13 | 0 36 | 1 51 | 1 56 | 1 10 | 13 35 | 8 41 | 8 50 | 14 9 | | | n.a. |
| S 20 | 20 52 | 8 49 | 0 s 2 | 17 53 | 0 38 | 6 33 | 4 24 | 9 48 | 1 34 | 17 40 | 0 29 | 22 8 | 0 47 | 21 12 | 0 36 | 1 52 | 1 55 | 1 9 | 13 35 | 8 41 | 8 49 | 14 12 | | | n.a. |
| S 21 | 20 40 | 14 3 | 1 4 | 17 13 | 0 27 | 6 17 | 4 37 | 9 59 | 1 34 | 17 40 | 0 29 | 22 6 | 0 47 | 21 11 | 0 36 | 1 52 | 1 55 | 1 9 | 13 35 | 8 41 | 8 48 | 14 15 | | | n.a. |
| M22 | 20 27 | 18 46 | 2 3 | 16 33 | 0 15 | 6 1 | 4 49 | 10 10 | 1 34 | 17 40 | 0 29 | 22 5 | 0 47 | 21 11 | 0 36 | 1 52 | 1 55 | 1 9 | 13 34 | 8 40 | 8 47 | 14 19 | | | n.a. |
| T 23 | 20 14 | 22 47 | 2 58 | 15 53 | 0 3 | 5 46 | 5 2 | 10 22 | 1 34 | 17 41 | 0 29 | 22 4 | 0 47 | 21 10 | 0 36 | 1 53 | 1 55 | 1 8 | 13 34 | 8 39 | 8 45 | 14 22 | | | n.a. |
| W24 | 20 1 | 25 54 | 3 45 | 15 13 | 0n10 | 5 32 | 5 14 | 10 33 | 1 34 | 17 41 | 0 29 | 22 3 | 0 47 | 21 9 | 0 36 | 1 53 | 1 55 | 1 8 | 13 34 | 8 37 | 8 44 | 14 25 | | | n.a. |
| T 25 | 19 47 | 27 51 | 4 23 | 14 33 | 0 24 | 5 18 | 5 27 | 10 44 | 1 33 | 17 42 | 0 28 | 22 1 | 0 47 | 21 8 | 0 36 | 1 54 | 1 55 | 1 8 | 13 33 | 8 34 | 8 43 | 14 28 | | | n.a. |
| F 26 | 19 33 | 28 25 | 4 48 | 13 54 | 0 38 | 5 6 | 5 39 | 10 55 | 1 33 | 17 43 | 0 28 | 22 0 | 0 47 | 21 8 | 0 36 | 1 54 | 1 55 | 1 7 | 13 33 | 8 30 | 8 42 | 14 31 | | | n.a. |
| S 27 | 19 18 | 27 27 | 5 0 | 13 16 | 0 53 | 4 54 | 5 52 | 11 5 | 1 33 | 17 43 | 0 28 | 21 59 | 0 47 | 21 7 | 0 36 | 1 55 | 1 55 | 1 7 | 13 33 | 8 26 | 8 41 | 14 34 | | | n.a. |
| S 28 | 19 4 | 24 57 | 4 56 | 12 40 | 1 8 | 4 44 | 6 4 | 11 16 | 1 33 | 17 44 | 0 28 | 21 57 | 0 47 | 21 6 | 0 36 | 1 55 | 1 55 | 1 7 | 13 32 | 8 21 | 8 40 | 14 37 | | | n.a. |
| M29 | 18 48 | 21 0 | 4 36 | 12 6 | 1 24 | 4 34 | 6 16 | 11 27 | 1 32 | 17 45 | 0 27 | 21 56 | 0 47 | 21 6 | 0 36 | 1 56 | 1 55 | 1 6 | 13 32 | 8 16 | 8 38 | 14 40 | | | n.a. |
| T 30 | 18 33 | 15 52 | 3 59 | 11 34 | 1 39 | 4 25 | 6 29 | 11 37 | 1 32 | 17 45 | 0 27 | 21 55 | 0 48 | 21 5 | 0 36 | 1 57 | 1 55 | 1 6 | 13 32 | 8 12 | 8 37 | 14 43 | | | n.a. |
| W31 | 18 s17 | 9 s52 | 3 s 8 | 11 s 5 | 1n54 | 4 s18 | 6n40 | 11 s47 | 1n32 | 17n46 | 0 s27 | 21 s54 | 0 s48 | 21 s 4 | 0 s36 | 1n57 | 1 s55 | 1 s 5 | 13 s31 | 8n 9 | 8n36 | 14 s46 | | | n.a. |

Julian Day Number = 1685263.5, Delta T = 03h13m21s
Ecliptic obliquity = 23°42'33, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°25'55, Lahiri = - 5°18'55 Julian Calendar 1 Jan. 99 BCE == Greg. Calendar 30 Dec. 100 BCE

The year -98 astronomical counting style corresponds to year 099 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 99 BCE
# geocentric

## FEBRUARY 99 BCE (-98) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 31 46 | 9♒42'49 | 26♓26 | 26♒56 | 2°R47 | 5♏12 | 21♉ 2 | 26♑30 | 29♑36 | 9♈17 | 29♈56 | 20°R34 | 21♈47 | 5♏53 | n.a. | T 1 |
| F 2 | 8 35 43 | 10°42'56 | 10♈32 | 27°22 | 2♓32 | 5°41 | 21° 5 | 26°37 | 29°40 | 9°18 | 29°57 | 20♈32 | 21°43 | 6° 0 | n.a. | F 2 |
| S 3 | 8 39 39 | 11°43'01 | 24°39 | 27°38 | 2°14 | 6°10 | 21° 8 | 26°44 | 29°43 | 9°19 | 29°57 | 20°D32 | 21°40 | 6° 7 | n.a. | S 3 |
| S 4 | 8 43 36 | 12°43'04 | 8♉45 | 27°R45 | 1°54 | 6°40 | 21°11 | 26°52 | 29°47 | 9°21 | 29°57 | 20°R32 | 21°37 | 6°13 | n.a. | S 4 |
| M 5 | 8 47 32 | 13°43'04 | 22°51 | 27°43 | 1°32 | 7° 9 | 21°14 | 26°59 | 29°50 | 9°22 | 29°58 | 20°32 | 21°34 | 6°20 | n.a. | M 5 |
| T 6 | 8 51 29 | 14°43'02 | 6♊54 | 27°31 | 1° 7 | 7°37 | 21°18 | 27° 6 | 29°54 | 9°24 | 29°58 | 20°30 | 21°31 | 6°27 | n.a. | T 6 |
| W 7 | 8 55 25 | 15°42'57 | 20°54 | 27°11 | 0°40 | 8° 6 | 21°22 | 27°13 | 29°57 | 9°25 | 29°59 | 20°25 | 21°27 | 6°33 | n.a. | W 7 |
| T 8 | 8 59 22 | 16°42'51 | 4♋48 | 26°43 | 0°11 | 8°35 | 21°25 | 27°20 | 0♒ 0 | 9°27 | 29°59 | 20°18 | 21°24 | 6°40 | n.a. | T 8 |
| F 9 | 9 3 19 | 17°42'42 | 18°35 | 26° 7 | 29♒41 | 9° 3 | 21°30 | 27°27 | 0° 4 | 9°28 | 29°59 | 20° 9 | 21°21 | 6°47 | n.a. | F 9 |
| S 10 | 9 7 15 | 18°42'31 | 2♌10 | 25°25 | 29° 8 | 9°31 | 21°34 | 27°34 | 0° 7 | 9°30 | 0♉ 0 | 19°58 | 21°18 | 6°53 | n.a. | S 10 |
| S 11 | 9 11 12 | 19°42'18 | 15°32 | 24°38 | 28°34 | 9°59 | 21°38 | 27°41 | 0°10 | 9°31 | 0° 1 | 19°48 | 21°15 | 7° 0 | n.a. | S 11 |
| M12 | 9 15 8 | 20°42'02 | 28°38 | 23°46 | 27°59 | 10°26 | 21°43 | 27°48 | 0°14 | 9°33 | 0° 1 | 19°38 | 21°12 | 7° 7 | n.a. | M12 |
| T 13 | 9 19 5 | 21°41'45 | 11♍26 | 22°51 | 27°23 | 10°54 | 21°48 | 27°55 | 0°17 | 9°35 | 0° 2 | 19°30 | 21° 8 | 7°13 | n.a. | T 13 |
| W14 | 9 23 1 | 22°41'25 | 23°57 | 21°54 | 26°46 | 11°21 | 21°53 | 28° 1 | 0°20 | 9°36 | 0° 2 | 19°24 | 21° 5 | 7°20 | n.a. | W14 |
| T 15 | 9 26 58 | 23°41'04 | 6♎13 | 20°57 | 26° 8 | 11°48 | 21°58 | 28° 8 | 0°23 | 9°38 | 0° 3 | 19°21 | 21° 2 | 7°27 | n.a. | T 15 |
| F 16 | 9 30 54 | 24°40'40 | 18°15 | 20° 1 | 25°30 | 12°15 | 22° 3 | 28°15 | 0°27 | 9°40 | 0° 4 | 19°D20 | 20°59 | 7°33 | n.a. | F 16 |
| S 17 | 9 34 51 | 25°40'15 | 0♏ 9 | 19° 6 | 24°52 | 12°41 | 22° 9 | 28°22 | 0°30 | 9°41 | 0° 4 | 19°21 | 20°56 | 7°40 | n.a. | S 17 |
| S 18 | 9 38 48 | 26°39'48 | 11°57 | 18°14 | 24°14 | 13° 8 | 22°14 | 28°28 | 0°33 | 9°43 | 0° 5 | 19°22 | 20°52 | 7°46 | n.a. | S 18 |
| M19 | 9 42 44 | 27°39'19 | 23°47 | 17°26 | 23°37 | 13°34 | 22°20 | 28°35 | 0°36 | 9°45 | 0° 6 | 19°R23 | 20°49 | 7°53 | n.a. | M19 |
| T 20 | 9 46 41 | 28°38'48 | 5♐42 | 16°43 | 23° 0 | 13°59 | 22°26 | 28°42 | 0°39 | 9°47 | 0° 6 | 19°23 | 20°46 | 8° 0 | n.a. | T 20 |
| W21 | 9 50 37 | 29°38'15 | 17°48 | 16° 4 | 22°24 | 14°25 | 22°32 | 28°48 | 0°43 | 9°48 | 0° 7 | 19°21 | 20°43 | 8° 6 | n.a. | W21 |
| T 22 | 9 54 34 | 0♓37'41 | 0♑10 | 15°31 | 21°50 | 14°50 | 22°38 | 28°55 | 0°46 | 9°50 | 0° 8 | 19°17 | 20°40 | 8°13 | n.a. | T 22 |
| F 23 | 9 58 30 | 1°37'04 | 12°52 | 15° 4 | 21°17 | 15°15 | 22°45 | 29° 2 | 0°49 | 9°52 | 0° 9 | 19°11 | 20°37 | 8°20 | n.a. | F 23 |
| S 24 | 10 2 27 | 2°36'26 | 25°56 | 14°42 | 20°45 | 15°40 | 22°51 | 29° 8 | 0°52 | 9°54 | 0° 9 | 19° 4 | 20°33 | 8°26 | n.a. | S 24 |
| S 25 | 10 6 23 | 3°35'46 | 9♒23 | 14°27 | 20°15 | 16° 4 | 22°58 | 29°15 | 0°55 | 9°56 | 0°10 | 18°56 | 20°30 | 8°33 | n.a. | S 25 |
| M26 | 10 10 20 | 4°35'03 | 23°12 | 14°17 | 19°47 | 16°28 | 23° 5 | 29°21 | 0°58 | 9°58 | 0°11 | 18°48 | 20°27 | 8°40 | n.a. | M26 |
| T 27 | 10 14 16 | 5°34'19 | 7♓20 | 14°D14 | 19°21 | 16°52 | 23°12 | 29°27 | 1° 1 | 10° 0 | 0°12 | 18°42 | 20°24 | 8°46 | n.a. | T 27 |
| W28 | 10 18 13 | 6♓33'32 | 21♓41 | 14♒16 | 18♒57 | 17♏16 | 23♉19 | 29♑34 | 1♒ 4 | 10♈ 2 | 0♉13 | 18♈37 | 20♈21 | 8♏53 | n.a. | W28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 18s 1 | 3s20 | 2s 4 | 10s39 | 2n 9 | 4s12 | 6n52 | 11s58 | 1n32 | 17n47 | 0s27 | 21s52 | 0s48 | 21s 3 | 0s37 | 1n58 | 1s55 | 1s 5 | 13s31 | 8n 7 | 8n35 | 14s49 | | n.a. |
| F 2 | 17 45 | 3n24 | 0 53 | 10 16 | 2 24 | 4 6 | 7 3 | 12 8 | 1 31 | 17 48 | 0 27 | 21 51 | 0 48 | 21 3 | 0 37 | 1 58 | 1 55 | 1 5 | 13 31 | 8 6 | 8 34 | 14 52 | | n.a. |
| S 3 | 17 28 | 9 59 | 0n22 | 9 57 | 2 38 | 4 3 | 7 14 | 12 18 | 1 31 | 17 49 | 0 26 | 21 50 | 0 48 | 21 2 | 0 37 | 1 59 | 1 55 | 1 4 | 13 30 | 8 6 | 8 32 | 14 55 | | n.a. |
| S 4 | 17 11 | 16 5 | 1 35 | 9 43 | 2 51 | 4 0 | 7 25 | 12 28 | 1 31 | 17 50 | 0 26 | 21 48 | 0 48 | 21 1 | 0 37 | 1 59 | 1 55 | 1 4 | 13 30 | 8 6 | 8 31 | 14 58 | | n.a. |
| M 5 | 16 54 | 21 19 | 2 43 | 9 32 | 3 4 | 3 58 | 7 35 | 12 38 | 1 30 | 17 51 | 0 26 | 21 47 | 0 48 | 21 1 | 0 37 | 2 0 | 1 55 | 1 3 | 13 30 | 8 6 | 8 30 | 15 1 | | n.a. |
| T 6 | 16 36 | 25 20 | 3 40 | 9 25 | 3 15 | 3 58 | 7 44 | 12 48 | 1 30 | 17 52 | 0 26 | 21 46 | 0 48 | 21 0 | 0 37 | 2 1 | 1 54 | 1 3 | 13 30 | 8 6 | 8 29 | 15 4 | | n.a. |
| W 7 | 16 18 | 27 47 | 4 25 | 9 23 | 3 25 | 3 59 | 7 53 | 12 57 | 1 29 | 17 54 | 0 26 | 21 44 | 0 48 | 20 59 | 0 37 | 2 1 | 1 54 | 1 2 | 13 29 | 8 4 | 8 28 | 15 7 | | n.a. |
| T 8 | 16 0 | 28 30 | 4 53 | 9 25 | 3 33 | 4 1 | 8 1 | 13 7 | 1 29 | 17 55 | 0 25 | 21 43 | 0 48 | 20 58 | 0 37 | 2 2 | 1 54 | 1 2 | 13 29 | 8 1 | 8 26 | 15 10 | | n.a. |
| F 9 | 15 42 | 27 25 | 5 3 | 9 30 | 3 40 | 4 5 | 8 9 | 13 17 | 1 29 | 17 56 | 0 25 | 21 42 | 0 48 | 20 58 | 0 37 | 2 3 | 1 54 | 1 2 | 13 29 | 7 58 | 8 25 | 15 13 | | n.a. |
| S 10 | 15 23 | 24 43 | 4 57 | 9 40 | 3 45 | 4 10 | 8 16 | 13 26 | 1 28 | 17 57 | 0 25 | 21 41 | 0 49 | 20 57 | 0 37 | 2 3 | 1 54 | 1 1 | 13 28 | 7 54 | 8 24 | 15 16 | | n.a. |
| S 11 | 15 4 | 20 43 | 4 34 | 9 53 | 3 47 | 4 16 | 8 22 | 13 35 | 1 28 | 17 59 | 0 25 | 21 39 | 0 49 | 20 56 | 0 37 | 2 4 | 1 54 | 1 1 | 13 28 | 7 50 | 8 23 | 15 19 | | n.a. |
| M12 | 14 45 | 15 47 | 3 57 | 10 10 | 3 48 | 4 23 | 8 27 | 13 44 | 1 27 | 18 0 | 0 25 | 21 38 | 0 49 | 20 56 | 0 37 | 2 5 | 1 54 | 1 0 | 13 28 | 7 46 | 8 21 | 15 22 | | n.a. |
| T 13 | 14 26 | 10 15 | 3 8 | 10 29 | 3 47 | 4 31 | 8 31 | 13 53 | 1 27 | 18 2 | 0 24 | 21 37 | 0 49 | 20 55 | 0 37 | 2 5 | 1 54 | 1 0 | 13 27 | 7 43 | 8 20 | 15 26 | | n.a. |
| W14 | 14 6 | 4 26 | 2 12 | 10 50 | 3 44 | 4 40 | 8 34 | 14 2 | 1 26 | 18 3 | 0 24 | 21 35 | 0 49 | 20 54 | 0 37 | 2 6 | 1 54 | 0 59 | 13 27 | 7 41 | 8 19 | 15 29 | | n.a. |
| T 15 | 13 47 | 1s25 | 1 10 | 11 13 | 3 39 | 4 51 | 8 37 | 14 11 | 1 26 | 18 5 | 0 24 | 21 34 | 0 49 | 20 53 | 0 37 | 2 7 | 1 54 | 0 59 | 13 27 | 7 39 | 8 18 | 15 32 | | n.a. |
| F 16 | 13 27 | 7 9 | 0 6 | 11 38 | 3 32 | 5 2 | 8 38 | 14 20 | 1 25 | 18 6 | 0 24 | 21 33 | 0 49 | 20 53 | 0 37 | 2 7 | 1 54 | 0 58 | 13 27 | 7 39 | 8 17 | 15 35 | | n.a. |
| S 17 | 13 6 | 12 33 | 0s58 | 12 3 | 3 23 | 5 14 | 8 39 | 14 29 | 1 24 | 18 8 | 0 24 | 21 32 | 0 49 | 20 52 | 0 37 | 2 8 | 1 54 | 0 58 | 13 26 | 7 39 | 8 15 | 15 38 | | n.a. |
| S 18 | 12 46 | 17 28 | 1 59 | 12 29 | 3 13 | 5 27 | 8 38 | 14 37 | 1 24 | 18 10 | 0 23 | 21 30 | 0 49 | 20 51 | 0 37 | 2 9 | 1 54 | 0 57 | 13 26 | 7 40 | 8 14 | 15 41 | | n.a. |
| M19 | 12 25 | 21 45 | 2 55 | 12 54 | 3 2 | 5 40 | 8 36 | 14 46 | 1 23 | 18 11 | 0 23 | 21 29 | 0 49 | 20 51 | 0 37 | 2 10 | 1 54 | 0 57 | 13 26 | 7 40 | 8 13 | 15 44 | | n.a. |
| T 20 | 12 5 | 25 10 | 3 43 | 13 19 | 2 49 | 5 54 | 8 34 | 14 54 | 1 23 | 18 13 | 0 23 | 21 28 | 0 50 | 20 50 | 0 37 | 2 10 | 1 54 | 0 56 | 13 25 | 7 40 | 8 12 | 15 46 | | n.a. |
| W21 | 11 44 | 27 30 | 4 23 | 13 43 | 2 36 | 6 9 | 8 31 | 15 2 | 1 22 | 18 15 | 0 23 | 21 26 | 0 50 | 20 49 | 0 37 | 2 11 | 1 54 | 0 56 | 13 25 | 7 39 | 8 11 | 15 49 | | n.a. |
| T 22 | 11 22 | 28 34 | 4 51 | 14 6 | 2 22 | 6 24 | 8 26 | 15 11 | 1 21 | 18 16 | 0 23 | 21 25 | 0 50 | 20 49 | 0 37 | 2 12 | 1 54 | 0 55 | 13 25 | 7 38 | 8 9 | 15 52 | | n.a. |
| F 23 | 11 1 | 28 9 | 5 6 | 14 28 | 2 8 | 6 39 | 8 21 | 15 19 | 1 21 | 18 18 | 0 22 | 21 24 | 0 50 | 20 48 | 0 37 | 2 13 | 1 54 | 0 55 | 13 25 | 7 35 | 8 8 | 15 55 | | n.a. |
| S 24 | 10 40 | 26 12 | 5 6 | 14 48 | 1 53 | 6 55 | 8 15 | 15 27 | 1 20 | 18 20 | 0 22 | 21 23 | 0 50 | 20 47 | 0 37 | 2 13 | 1 54 | 0 54 | 13 24 | 7 33 | 8 7 | 15 58 | | n.a. |
| S 25 | 10 18 | 22 44 | 4 49 | 15 7 | 1 38 | 7 10 | 8 9 | 15 34 | 1 19 | 18 22 | 0 22 | 21 21 | 0 50 | 20 47 | 0 37 | 2 14 | 1 54 | 0 54 | 13 24 | 7 30 | 8 6 | 16 1 | | n.a. |
| M26 | 9 56 | 17 56 | 4 15 | 15 24 | 1 23 | 7 26 | 8 1 | 15 42 | 1 18 | 18 24 | 0 22 | 21 20 | 0 50 | 20 46 | 0 37 | 2 15 | 1 54 | 0 53 | 13 24 | 7 27 | 8 5 | 16 4 | | n.a. |
| T 27 | 9 34 | 12 4 | 3 25 | 15 39 | 1 9 | 7 41 | 7 53 | 15 50 | 1 18 | 18 26 | 0 22 | 21 19 | 0 50 | 20 45 | 0 37 | 2 16 | 1 54 | 0 53 | 13 24 | 7 24 | 8 3 | 16 7 | | n.a. |
| W28 | 9s12 | 5s29 | 2s21 | 15s52 | 0n54 | 7s57 | 7n45 | 15s57 | 1n17 | 18n28 | 0s22 | 21s18 | 0s51 | 20s45 | 0s37 | 2n17 | 1s54 | 0s52 | 13s23 | 7n23 | 8n 2 | 16s10 | | n.a. |

Julian Day Number = 1685294.5, Delta T = 03h13m20s
Ecliptic obliquity = 23°42'34, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°25'51, Lahiri = - 5°18'51 Julian Calendar 1 Feb. 99 BCE == Greg. Calendar 30 Jan. 099 BCE


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# ASTRODIENST EPHEMERIS for the year 99 BCE
# geocentric

## MARCH 99 BCE (-98) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 10 22 10 | 7♓32'43 | 6♈11 | 14♒23 | 18°R36 | 17♏39 | 23♉26 | 29♊40 | 1♒ 7 | 10♈ 4 | 0♉14 | 18°R35 | 20♈18 | 9♏ 0 | n.a. | T 1 |
| F 2 | 10 26 6 | 8°31'52 | 20°42 | 14°36 | 18♒16 | 18° 2 | 23°34 | 29°46 | 1°10 | 10° 5 | 0°15 | 18°D34 | 20°14 | 9° 6 | n.a. | F 2 |
| S 3 | 10 30 3 | 9°30'58 | 5♉11 | 14°54 | 17°59 | 18°24 | 23°41 | 29°52 | 1°13 | 10° 7 | 0°15 | 18♈35 | 20°11 | 9°13 | n.a. | S 3 |
| S 4 | 10 33 59 | 10°30'02 | 19°33 | 15°17 | 17°45 | 18°47 | 23°49 | 29°58 | 1°16 | 10° 9 | 0°16 | 18°36 | 20° 8 | 9°20 | n.a. | S 4 |
| M 5 | 10 37 56 | 11°29'04 | 3♊45 | 15°44 | 17°32 | 19° 8 | 23°57 | 0♒ 5 | 1°19 | 10°11 | 0°17 | 18°37 | 20° 5 | 9°26 | n.a. | M 5 |
| T 6 | 10 41 52 | 12°28'03 | 17°46 | 16°16 | 17°23 | 19°30 | 24° 5 | 0°11 | 1°21 | 10°14 | 0°18 | 18°R38 | 20° 2 | 9°33 | n.a. | T 6 |
| W 7 | 10 45 49 | 13°27'00 | 1♋35 | 16°52 | 17°16 | 19°51 | 24°13 | 0°17 | 1°24 | 10°16 | 0°19 | 18°36 | 19°58 | 9°40 | n.a. | W 7 |
| T 8 | 10 49 45 | 14°25'55 | 15°11 | 17°32 | 17°11 | 20°12 | 24°21 | 0°23 | 1°27 | 10°18 | 0°20 | 18°33 | 19°55 | 9°46 | n.a. | T 8 |
| F 9 | 10 53 42 | 15°24'47 | 28°35 | 18°16 | 17°D 8 | 20°32 | 24°30 | 0°28 | 1°30 | 10°20 | 0°21 | 18°29 | 19°52 | 9°53 | n.a. | F 9 |
| S 10 | 10 57 39 | 16°23'37 | 11♌46 | 19° 3 | 17° 8 | 20°52 | 24°38 | 0°34 | 1°32 | 10°22 | 0°22 | 18°24 | 19°49 | 10° 0 | n.a. | S 10 |
| S 11 | 11 1 35 | 17°22'24 | 24°43 | 19°53 | 17°11 | 21°12 | 24°47 | 0°40 | 1°35 | 10°24 | 0°23 | 18°19 | 19°46 | 10° 6 | n.a. | S 11 |
| M12 | 11 5 32 | 18°21'09 | 7♍27 | 20°47 | 17°15 | 21°31 | 24°56 | 0°46 | 1°38 | 10°26 | 0°24 | 18°14 | 19°43 | 10°13 | n.a. | M12 |
| T 13 | 11 9 28 | 19°19'52 | 19°58 | 21°44 | 17°22 | 21°50 | 25° 5 | 0°51 | 1°40 | 10°28 | 0°25 | 18°10 | 19°39 | 10°20 | n.a. | T 13 |
| W14 | 11 13 25 | 20°18'33 | 2♎16 | 22°43 | 17°32 | 22° 8 | 25°14 | 0°57 | 1°43 | 10°30 | 0°26 | 18° 7 | 19°36 | 10°26 | n.a. | W14 |
| T 15 | 11 17 21 | 21°17'12 | 14°23 | 23°46 | 17°43 | 22°26 | 25°23 | 1° 2 | 1°45 | 10°32 | 0°28 | 18°D 6 | 19°33 | 10°33 | n.a. | T 15 |
| F 16 | 11 21 18 | 22°15'49 | 26°21 | 24°51 | 17°56 | 22°44 | 25°32 | 1° 8 | 1°48 | 10°35 | 0°29 | 18° 7 | 19°30 | 10°39 | n.a. | F 16 |
| S 17 | 11 25 14 | 23°14'24 | 8♏12 | 25°58 | 18°12 | 23° 1 | 25°41 | 1°13 | 1°50 | 10°37 | 0°30 | 18° 8 | 19°27 | 10°46 | n.a. | S 17 |
| S 18 | 11 29 11 | 24°12'58 | 20° 1 | 27° 8 | 18°29 | 23°18 | 25°51 | 1°19 | 1°53 | 10°39 | 0°31 | 18° 9 | 19°24 | 10°53 | n.a. | S 18 |
| M19 | 11 33 7 | 25°11'29 | 1♐50 | 28°20 | 18°49 | 23°34 | 26° 0 | 1°24 | 1°55 | 10°41 | 0°32 | 18°11 | 19°20 | 10°59 | n.a. | M19 |
| T 20 | 11 37 4 | 26° 9'59 | 13°46 | 29°35 | 19°10 | 23°49 | 26°10 | 1°29 | 1°58 | 10°43 | 0°33 | 18°12 | 19°17 | 11° 6 | n.a. | T 20 |
| W21 | 11 41 1 | 27° 8'28 | 25°51 | 0♓52 | 19°33 | 24° 5 | 26°20 | 1°34 | 2° 0 | 10°46 | 0°34 | 18°R13 | 19°14 | 11°13 | n.a. | W21 |
| T 22 | 11 44 57 | 28° 6'54 | 8♑12 | 2°11 | 19°57 | 24°19 | 26°29 | 1°39 | 2° 2 | 10°48 | 0°35 | 18°13 | 19°11 | 11°19 | n.a. | T 22 |
| F 23 | 11 48 54 | 29° 5'19 | 20°52 | 3°31 | 20°24 | 24°34 | 26°39 | 1°44 | 2° 4 | 10°50 | 0°37 | 18°11 | 19° 8 | 11°26 | n.a. | F 23 |
| S 24 | 11 52 50 | 0♈ 3'42 | 3♒55 | 4°54 | 20°52 | 24°47 | 26°50 | 1°49 | 2° 7 | 10°52 | 0°38 | 18° 9 | 19° 4 | 11°33 | n.a. | S 24 |
| S 25 | 11 56 47 | 1° 2'04 | 17°24 | 6°19 | 21°21 | 25° 0 | 27° 0 | 1°54 | 2° 9 | 10°54 | 0°39 | 18° 7 | 19° 1 | 11°39 | n.a. | S 25 |
| M26 | 12 0 43 | 2° 0'23 | 1♓18 | 7°46 | 21°52 | 25°13 | 27°10 | 1°59 | 2°11 | 10°57 | 0°40 | 18° 5 | 18°58 | 11°46 | n.a. | M26 |
| T 27 | 12 4 40 | 2°58'41 | 15°36 | 9°15 | 22°25 | 25°25 | 27°20 | 2° 4 | 2°13 | 10°59 | 0°41 | 18° 3 | 18°55 | 11°53 | n.a. | T 27 |
| W28 | 12 8 36 | 3°56'57 | 0♈13 | 10°46 | 22°58 | 25°36 | 27°31 | 2° 9 | 2°15 | 11° 1 | 0°43 | 18° 2 | 18°52 | 11°59 | n.a. | W28 |
| T 29 | 12 12 33 | 4°55'11 | 15° 3 | 12°18 | 23°33 | 25°47 | 27°41 | 2°13 | 2°17 | 11° 3 | 0°44 | 18°D 1 | 18°49 | 12° 6 | n.a. | T 29 |
| F 30 | 12 16 30 | 5°53'24 | 29°59 | 13°52 | 24°10 | 25°57 | 27°52 | 2°18 | 2°19 | 11° 6 | 0°45 | 18° 2 | 18°45 | 12°13 | n.a. | F 30 |
| S 31 | 12 20 26 | 6♈51'34 | 14♉52 | 15♓29 | 24♒47 | 26♏ 7 | 28♉ 3 | 2♒22 | 2♒21 | 11♈ 8 | 0♉46 | 18♈ 2 | 18♈42 | 12♏19 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| T 1 | 8s50 | 1n28 | 1s 7 | 16s 4 | 0n40 | 8s12 | 7n36 | 16s 4 | 1n16 | 18n30 | 0s21 | 21s17 | 0s51 | 20s44 | 0s37 | 2n17 | 1s53 | 0s52 | 13s23 | 7n22 | 8n 1 | 16s13 | | | n.a. |
| F 2 | 8 28 | 8 21 | 0n12 | 16 13 | 0 26 | 8 27 | 7 26 | 16 12 | 1 15 | 18 32 | 0 21 | 21 15 | 0 51 | 20 44 | 0 37 | 2 18 | 1 53 | 0 51 | 13 23 | 7 21 | 8 0 | 16 16 | | | n.a. |
| S 3 | 8 5 | 14 48 | 1 29 | 16 21 | 0 12 | 8 42 | 7 16 | 16 19 | 1 14 | 18 34 | 0 21 | 21 14 | 0 51 | 20 43 | 0 37 | 2 19 | 1 53 | 0 51 | 13 23 | 7 22 | 7 59 | 16 19 | | | n.a. |
| S 4 | 7 43 | 20 23 | 2 41 | 16 27 | 0s 1 | 8 56 | 7 6 | 16 26 | 1 13 | 18 36 | 0 21 | 21 13 | 0 51 | 20 42 | 0 37 | 2 20 | 1 53 | 0 50 | 13 22 | 7 22 | 7 57 | 16 22 | | | n.a. |
| M 5 | 7 20 | 24 45 | 3 41 | 16 31 | 0 14 | 9 10 | 6 55 | 16 33 | 1 12 | 18 38 | 0 21 | 21 12 | 0 51 | 20 42 | 0 37 | 2 21 | 1 53 | 0 49 | 13 22 | 7 23 | 7 56 | 16 25 | | | n.a. |
| T 6 | 6 57 | 27 35 | 4 28 | 16 33 | 0 26 | 9 23 | 6 44 | 16 40 | 1 11 | 18 41 | 0 20 | 21 11 | 0 51 | 20 41 | 0 37 | 2 22 | 1 53 | 0 49 | 13 22 | 7 23 | 7 55 | 16 28 | | | n.a. |
| W 7 | 6 35 | 28 40 | 4 58 | 16 33 | 0 37 | 9 36 | 6 32 | 16 46 | 1 10 | 18 43 | 0 20 | 21 9 | 0 51 | 20 40 | 0 37 | 2 22 | 1 53 | 0 48 | 13 22 | 7 22 | 7 54 | 16 31 | | | n.a. |
| T 8 | 6 12 | 27 59 | 5 11 | 16 31 | 0 48 | 9 49 | 6 21 | 16 53 | 1 9 | 18 45 | 0 20 | 21 8 | 0 52 | 20 40 | 0 37 | 2 23 | 1 53 | 0 48 | 13 21 | 7 21 | 7 52 | 16 34 | | | n.a. |
| F 9 | 5 49 | 25 41 | 5 7 | 16 28 | 0 59 | 10 0 | 6 9 | 17 0 | 1 8 | 18 47 | 0 20 | 21 7 | 0 52 | 20 39 | 0 37 | 2 24 | 1 53 | 0 47 | 13 21 | 7 19 | 7 51 | 16 37 | | | n.a. |
| S 10 | 5 26 | 22 2 | 4 46 | 16 22 | 1 9 | 10 12 | 5 58 | 17 6 | 1 7 | 18 49 | 0 20 | 21 6 | 0 52 | 20 39 | 0 37 | 2 25 | 1 53 | 0 47 | 13 21 | 7 17 | 7 50 | 16 40 | | | n.a. |
| S 11 | 5 3 | 17 22 | 4 11 | 16 15 | 1 19 | 10 22 | 5 46 | 17 12 | 1 6 | 18 52 | 0 20 | 21 5 | 0 52 | 20 38 | 0 37 | 2 26 | 1 53 | 0 46 | 13 21 | 7 15 | 7 49 | 16 43 | | | n.a. |
| M12 | 4 39 | 12 2 | 3 24 | 16 7 | 1 28 | 10 32 | 5 34 | 17 19 | 1 5 | 18 54 | 0 19 | 21 4 | 0 52 | 20 38 | 0 37 | 2 27 | 1 53 | 0 46 | 13 20 | 7 14 | 7 48 | 16 46 | | | n.a. |
| T 13 | 4 16 | 6 17 | 2 28 | 15 56 | 1 36 | 10 41 | 5 22 | 17 25 | 1 3 | 18 56 | 0 19 | 21 3 | 0 52 | 20 37 | 0 37 | 2 28 | 1 53 | 0 45 | 13 20 | 7 12 | 7 46 | 16 48 | | | n.a. |
| W14 | 3 53 | 0 24 | 1 26 | 15 44 | 1 44 | 10 50 | 5 10 | 17 31 | 1 2 | 18 59 | 0 19 | 21 1 | 0 52 | 20 36 | 0 37 | 2 28 | 1 53 | 0 44 | 13 20 | 7 11 | 7 45 | 16 51 | | | n.a. |
| T 15 | 3 30 | 5s25 | 0 20 | 15 30 | 1 51 | 10 58 | 4 58 | 17 37 | 1 1 | 19 1 | 0 19 | 21 0 | 0 52 | 20 36 | 0 37 | 2 29 | 1 53 | 0 44 | 13 20 | 7 11 | 7 44 | 16 54 | | | n.a. |
| F 16 | 3 6 | 10 59 | 0s45 | 15 14 | 1 58 | 11 5 | 4 47 | 17 42 | 0 59 | 19 3 | 0 19 | 20 59 | 0 53 | 20 35 | 0 37 | 2 30 | 1 53 | 0 43 | 13 20 | 7 11 | 7 43 | 16 57 | | | n.a. |
| S 17 | 2 43 | 16 6 | 1 48 | 14 56 | 2 4 | 11 11 | 4 35 | 17 48 | 0 58 | 19 6 | 0 19 | 20 58 | 0 53 | 20 35 | 0 37 | 2 31 | 1 53 | 0 43 | 13 19 | 7 11 | 7 42 | 17 0 | | | n.a. |
| S 18 | 2 19 | 20 37 | 2 47 | 14 37 | 2 9 | 11 17 | 4 23 | 17 54 | 0 57 | 19 8 | 0 18 | 20 57 | 0 53 | 20 34 | 0 37 | 2 32 | 1 53 | 0 42 | 13 19 | 7 12 | 7 40 | 17 3 | | | n.a. |
| M19 | 1 56 | 24 19 | 3 38 | 14 17 | 2 14 | 11 22 | 4 12 | 17 59 | 0 55 | 19 11 | 0 18 | 20 56 | 0 53 | 20 34 | 0 37 | 2 33 | 1 53 | 0 42 | 13 19 | 7 13 | 7 39 | 17 6 | | | n.a. |
| T 20 | 1 32 | 27 1 | 4 21 | 13 54 | 2 19 | 11 26 | 4 0 | 18 4 | 0 54 | 19 13 | 0 18 | 20 55 | 0 53 | 20 33 | 0 37 | 2 34 | 1 53 | 0 41 | 13 19 | 7 13 | 7 38 | 17 9 | | | n.a. |
| W21 | 1 9 | 28 31 | 4 52 | 13 31 | 2 23 | 11 30 | 3 49 | 18 10 | 0 52 | 19 16 | 0 18 | 20 54 | 0 53 | 20 33 | 0 37 | 2 35 | 1 53 | 0 41 | 13 19 | 7 13 | 7 37 | 17 12 | | | n.a. |
| T 22 | 0 45 | 28 37 | 5 11 | 13 5 | 2 26 | 11 33 | 3 38 | 18 15 | 0 51 | 19 18 | 0 18 | 20 53 | 0 53 | 20 32 | 0 38 | 2 35 | 1 53 | 0 40 | 13 19 | 7 13 | 7 35 | 17 15 | | | n.a. |
| F 23 | 0 22 | 27 15 | 5 15 | 12 38 | 2 29 | 11 35 | 3 27 | 18 20 | 0 49 | 19 21 | 0 18 | 20 52 | 0 54 | 20 32 | 0 38 | 2 36 | 1 53 | 0 39 | 13 18 | 7 13 | 7 34 | 17 17 | | | n.a. |
| S 24 | 0n 1 | 24 24 | 5 4 | 12 9 | 2 31 | 11 36 | 3 16 | 18 25 | 0 47 | 19 23 | 0 18 | 20 51 | 0 54 | 20 31 | 0 38 | 2 37 | 1 53 | 0 39 | 13 18 | 7 12 | 7 33 | 17 20 | | | n.a. |
| S 25 | 0 25 | 20 10 | 4 36 | 11 39 | 2 33 | 11 37 | 3 5 | 18 30 | 0 46 | 19 26 | 0 17 | 20 50 | 0 54 | 20 31 | 0 38 | 2 38 | 1 53 | 0 38 | 13 18 | 7 11 | 7 32 | 17 23 | | | n.a. |
| M26 | 0 48 | 14 43 | 3 51 | 11 7 | 2 34 | 11 37 | 2 55 | 18 35 | 0 44 | 19 28 | 0 17 | 20 49 | 0 54 | 20 30 | 0 38 | 2 39 | 1 53 | 0 38 | 13 18 | 7 10 | 7 31 | 17 26 | | | n.a. |
| T 27 | 1 12 | 8 21 | 2 50 | 10 34 | 2 34 | 11 36 | 2 45 | 18 39 | 0 42 | 19 31 | 0 17 | 20 48 | 0 54 | 20 30 | 0 38 | 2 40 | 1 53 | 0 37 | 13 18 | 7 9 | 7 29 | 17 29 | | | n.a. |
| W28 | 1 35 | 1 24 | 1 37 | 9 59 | 2 34 | 11 35 | 2 34 | 18 44 | 0 40 | 19 33 | 0 17 | 20 47 | 0 54 | 20 30 | 0 38 | 2 41 | 1 53 | 0 37 | 13 17 | 7 9 | 7 28 | 17 32 | | | n.a. |
| T 29 | 1 59 | 5n44 | 0 16 | 9 23 | 2 34 | 11 33 | 2 24 | 18 48 | 0 38 | 19 36 | 0 17 | 20 46 | 0 55 | 20 29 | 0 38 | 2 42 | 1 53 | 0 36 | 13 17 | 7 9 | 7 27 | 17 35 | | | n.a. |
| F 30 | 2 22 | 12 37 | 1n 6 | 8 45 | 2 33 | 11 30 | 2 15 | 18 52 | 0 36 | 19 38 | 0 17 | 20 45 | 0 55 | 20 29 | 0 38 | 2 43 | 1 53 | 0 35 | 13 17 | 7 9 | 7 26 | 17 37 | | | n.a. |
| S 31 | 2n45 | 18n45 | 2n23 | 8s 6 | 2s31 | 11s27 | 2n 5 | 18s57 | 0n34 | 19n41 | 0s16 | 20s45 | 0s55 | 20s28 | 0s38 | 2n43 | 1s53 | 0s35 | 13s17 | 7n 9 | 7n25 | 17s40 | | | n.a. |

Julian Day Number = 1685322.5, Delta T = 03h13m19s
Ecliptic obliquity = 23°42'35, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°25'47, Lahiri = - 5°18'47 Julian Calendar 1 March 99 BCE == Greg. Calendar 27 Feb. 099 BCE

The year -98 astronomical counting style corresponds to year 099 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 99 BCE
# geocentric

## APRIL 99 BCE (-98) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 24 23 | 7♈49'43 | 29♉35 | 17♓ 7 | 25♒26 | 26♏16 | 28♉14 | 2♒26 | 2♒23 | 11♈10 | 0♉48 | 18♈ 3 | 18♈39 | 12♏26 | n.a. | S 1 |
| M 2 | 12 28 19 | 8°47'49 | 14♊ 4 | 18°47 | 26° 5 | 26°24 | 28°24 | 2°31 | 2°25 | 11°12 | 0°49 | 18° 4 | 18°36 | 12°33 | n.a. | M 2 |
| T 3 | 12 32 16 | 9°45'54 | 28°14 | 20°28 | 26°46 | 26°32 | 28°35 | 2°35 | 2°27 | 11°15 | 0°50 | 18° 4 | 18°33 | 12°39 | n.a. | T 3 |
| W 4 | 12 36 12 | 10°43'56 | 12♋ 4 | 22°12 | 27°28 | 26°39 | 28°47 | 2°39 | 2°28 | 11°17 | 0°51 | 18°R 4 | 18°29 | 12°46 | n.a. | W 4 |
| T 5 | 12 40 9 | 11°41'57 | 25°34 | 23°57 | 28°11 | 26°45 | 28°58 | 2°43 | 2°30 | 11°19 | 0°53 | 18° 4 | 18°26 | 12°53 | n.a. | T 5 |
| F 6 | 12 44 5 | 12°39'55 | 8♌45 | 25°44 | 28°54 | 26°51 | 29° 9 | 2°47 | 2°32 | 11°21 | 0°54 | 18° 4 | 18°23 | 12°59 | n.a. | F 6 |
| S 7 | 12 48 2 | 13°37'52 | 21°39 | 27°33 | 29°39 | 26°56 | 29°20 | 2°51 | 2°33 | 11°24 | 0°55 | 18° 3 | 18°20 | 13° 6 | n.a. | S 7 |
| S 8 | 12 51 59 | 14°35'46 | 4♍17 | 29°24 | 0♓24 | 27° 0 | 29°32 | 2°55 | 2°35 | 11°26 | 0°57 | 18° 3 | 18°17 | 13°13 | n.a. | S 8 |
| M 9 | 12 55 55 | 15°33'39 | 16°42 | 1♈17 | 1°11 | 27° 4 | 29°43 | 2°59 | 2°37 | 11°28 | 0°58 | 18° 2 | 18°14 | 13°19 | n.a. | M 9 |
| T 10 | 12 59 52 | 16°31'29 | 28°56 | 3°12 | 1°58 | 27° 7 | 29°55 | 3° 2 | 2°38 | 11°30 | 0°59 | 18° 2 | 18°10 | 13°26 | n.a. | T 10 |
| W11 | 13 3 48 | 17°29'19 | 11♎ 1 | 5° 8 | 2°46 | 27° 9 | 0♊ 6 | 3° 6 | 2°40 | 11°33 | 1° 1 | 18° 2 | 18° 7 | 13°33 | n.a. | W11 |
| T 12 | 13 7 45 | 18°27'06 | 22°59 | 7° 6 | 3°35 | 27°11 | 0°18 | 3° 9 | 2°41 | 11°35 | 1° 2 | 18° 2 | 18° 4 | 13°39 | n.a. | T 12 |
| F 13 | 13 11 41 | 19°24'52 | 4♏51 | 9° 6 | 4°24 | 27°11 | 0°30 | 3°13 | 2°42 | 11°37 | 1° 3 | 18° 2 | 18° 1 | 13°46 | n.a. | F 13 |
| S 14 | 13 15 38 | 20°22'37 | 16°41 | 11° 8 | 5°14 | 27°R11 | 0°41 | 3°16 | 2°44 | 11°39 | 1° 5 | 18° 2 | 17°58 | 13°53 | n.a. | S 14 |
| S 15 | 13 19 34 | 21°20'20 | 28°29 | 13°11 | 6° 5 | 27°11 | 0°53 | 3°19 | 2°45 | 11°42 | 1° 6 | 18° 2 | 17°55 | 13°59 | n.a. | S 15 |
| M16 | 13 23 31 | 22°18'02 | 10♐21 | 15°16 | 6°56 | 27° 9 | 1° 5 | 3°22 | 2°46 | 11°44 | 1° 7 | 18° 1 | 17°51 | 14° 6 | n.a. | M16 |
| T 17 | 13 27 28 | 23°15'43 | 22°18 | 17°22 | 7°48 | 27° 7 | 1°17 | 3°25 | 2°47 | 11°46 | 1° 9 | 18° 1 | 17°48 | 14°13 | n.a. | T 17 |
| W18 | 13 31 24 | 24°13'23 | 4♑24 | 19°30 | 8°41 | 27° 4 | 1°29 | 3°28 | 2°49 | 11°48 | 1°10 | 18° 0 | 17°45 | 14°19 | n.a. | W18 |
| T 19 | 13 35 21 | 25°11'01 | 16°44 | 21°39 | 9°34 | 27° 1 | 1°41 | 3°31 | 2°50 | 11°50 | 1°11 | 18° 0 | 17°42 | 14°26 | n.a. | T 19 |
| F 20 | 13 39 17 | 26° 8'39 | 29°21 | 23°49 | 10°28 | 26°56 | 1°54 | 3°34 | 2°51 | 11°53 | 1°13 | 18°D 0 | 17°39 | 14°33 | n.a. | F 20 |
| S 21 | 13 43 14 | 27° 6'15 | 12♒20 | 25°59 | 11°22 | 26°51 | 2° 6 | 3°37 | 2°52 | 11°55 | 1°14 | 18° 0 | 17°35 | 14°39 | n.a. | S 21 |
| S 22 | 13 47 10 | 28° 3'50 | 25°42 | 28°10 | 12°17 | 26°45 | 2°18 | 3°39 | 2°53 | 11°57 | 1°15 | 18° 0 | 17°32 | 14°46 | n.a. | S 22 |
| M23 | 13 51 7 | 29° 1'24 | 9♓32 | 0♉22 | 13°13 | 26°38 | 2°31 | 3°42 | 2°54 | 11°59 | 1°17 | 18° 1 | 17°29 | 14°52 | n.a. | M23 |
| T 24 | 13 55 3 | 29°58'57 | 23°47 | 2°33 | 14° 8 | 26°31 | 2°43 | 3°44 | 2°54 | 12° 1 | 1°18 | 18° 2 | 17°26 | 14°59 | n.a. | T 24 |
| W25 | 13 59 0 | 0♉56'29 | 8♈26 | 4°44 | 15° 5 | 26°23 | 2°55 | 3°47 | 2°55 | 12° 4 | 1°19 | 18° 3 | 17°23 | 15° 6 | n.a. | W25 |
| T 26 | 14 2 57 | 1°54'00 | 23°23 | 6°55 | 16° 2 | 26°14 | 3° 8 | 3°49 | 2°56 | 12° 6 | 1°21 | 18°R 3 | 17°20 | 15°12 | n.a. | T 26 |
| F 27 | 14 6 53 | 2°51'30 | 8♉32 | 9° 5 | 16°59 | 26° 4 | 3°20 | 3°51 | 2°57 | 12° 8 | 1°22 | 18° 2 | 17°16 | 15°19 | n.a. | F 27 |
| S 28 | 14 10 50 | 3°48'59 | 23°42 | 11°13 | 17°56 | 25°54 | 3°33 | 3°53 | 2°57 | 12°10 | 1°24 | 18° 1 | 17°13 | 15°26 | n.a. | S 28 |
| S 29 | 14 14 46 | 4°46'27 | 8♊44 | 13°21 | 18°54 | 25°42 | 3°46 | 3°55 | 2°58 | 12°12 | 1°25 | 17°59 | 17°10 | 15°32 | n.a. | S 29 |
| M30 | 14 18 43 | 5♉43'53 | 23♊30 | 15♉27 | 19♓53 | 25♏31 | 3♊58 | 3♒57 | 2♒59 | 12♈14 | 1♉26 | 17♈57 | 17♈ 7 | 15♏39 | n.a. | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 3n 8 | 23n43 | 3n31 | 7s25 | 2s29 | 11s23 | 1n56 | 19s 1 | 0n32 | 19n43 | 0s16 | 20s44 | 0s55 | 20s28 | 0s38 | 2n44 | 1s53 | 0s34 | 13s17 | 7n 9 | 7n23 | 17s43 | | n.a. |
| M 2 | 3 32 | 27 6 | 4 23 | 6 43 | 2 26 | 11 18 | 1 46 | 19 5 | 0 30 | 19 46 | 0 16 | 20 43 | 0 55 | 20 27 | 0 38 | 2 45 | 1 53 | 0 34 | 13 17 | 7 10 | 7 22 | 17 46 | | n.a. |
| T 3 | 3 55 | 28 40 | 4 58 | 6 0 | 2 23 | 11 12 | 1 37 | 19 9 | 0 28 | 19 49 | 0 16 | 20 42 | 0 55 | 20 27 | 0 38 | 2 46 | 1 53 | 0 33 | 13 17 | 7 10 | 7 21 | 17 49 | | n.a. |
| W 4 | 4 18 | 28 23 | 5 15 | 5 15 | 2 19 | 11 6 | 1 28 | 19 13 | 0 26 | 19 51 | 0 16 | 20 41 | 0 55 | 20 27 | 0 38 | 2 47 | 1 53 | 0 33 | 13 17 | 7 10 | 7 20 | 17 52 | | n.a. |
| T 5 | 4 41 | 26 25 | 5 15 | 4 29 | 2 14 | 11 0 | 1 20 | 19 16 | 0 23 | 19 54 | 0 16 | 20 40 | 0 56 | 20 26 | 0 38 | 2 48 | 1 53 | 0 32 | 13 16 | 7 10 | 7 18 | 17 55 | | n.a. |
| F 6 | 5 3 | 23 2 | 4 57 | 3 41 | 2 9 | 10 52 | 1 11 | 19 20 | 0 21 | 19 56 | 0 16 | 20 40 | 0 56 | 20 26 | 0 38 | 2 49 | 1 53 | 0 32 | 13 16 | 7 10 | 7 17 | 17 57 | | n.a. |
| S 7 | 5 26 | 18 37 | 4 25 | 2 53 | 2 4 | 10 45 | 1 3 | 19 23 | 0 19 | 19 59 | 0 16 | 20 39 | 0 56 | 20 26 | 0 38 | 2 50 | 1 53 | 0 31 | 13 16 | 7 10 | 7 16 | 18 0 | | n.a. |
| S 8 | 5 49 | 13 27 | 3 40 | 2 2 | 1 58 | 10 36 | 0 55 | 19 27 | 0 16 | 20 2 | 0 15 | 20 38 | 0 56 | 20 25 | 0 38 | 2 51 | 1 53 | 0 31 | 13 16 | 7 9 | 7 15 | 18 3 | | n.a. |
| M 9 | 6 12 | 7 50 | 2 45 | 1 11 | 1 52 | 10 27 | 0 47 | 19 30 | 0 14 | 20 4 | 0 15 | 20 38 | 0 56 | 20 25 | 0 38 | 2 51 | 1 53 | 0 30 | 13 16 | 7 9 | 7 14 | 18 6 | | n.a. |
| T 10 | 6 34 | 2 1 | 1 44 | 0 19 | 1 45 | 10 17 | 0 39 | 19 33 | 0 11 | 20 7 | 0 15 | 20 37 | 0 56 | 20 25 | 0 38 | 2 52 | 1 53 | 0 29 | 13 16 | 7 9 | 7 12 | 18 9 | | n.a. |
| W11 | 6 56 | 3s49 | 0 39 | 0n35 | 1 37 | 10 7 | 0 31 | 19 36 | 0 8 | 20 9 | 0 15 | 20 36 | 0 57 | 20 24 | 0 38 | 2 53 | 1 53 | 0 29 | 13 16 | 7 9 | 7 11 | 18 11 | | n.a. |
| T 12 | 7 19 | 9 27 | 0s27 | 1 29 | 1 29 | 9 56 | 0 24 | 19 39 | 0 6 | 20 12 | 0 15 | 20 36 | 0 57 | 20 24 | 0 38 | 2 54 | 1 53 | 0 28 | 13 16 | 7 9 | 7 10 | 18 14 | | n.a. |
| F 13 | 7 41 | 14 44 | 1 32 | 2 25 | 1 21 | 9 45 | 0 17 | 19 42 | 0 3 | 20 15 | 0 15 | 20 35 | 0 57 | 20 24 | 0 38 | 2 55 | 1 53 | 0 28 | 13 16 | 7 9 | 7 9 | 18 17 | | n.a. |
| S 14 | 8 3 | 19 26 | 2 32 | 3 21 | 1 12 | 9 33 | 0 10 | 19 45 | 0 0 | 20 17 | 0 15 | 20 34 | 0 57 | 20 23 | 0 38 | 2 56 | 1 53 | 0 27 | 13 15 | 7 9 | 7 7 | 18 20 | | n.a. |
| S 15 | 8 25 | 23 24 | 3 26 | 4 18 | 1 3 | 9 20 | 0 3 | 19 48 | 0s 3 | 20 20 | 0 14 | 20 34 | 0 57 | 20 23 | 0 38 | 2 57 | 1 53 | 0 27 | 13 15 | 7 9 | 7 6 | 18 23 | | n.a. |
| M16 | 8 47 | 26 24 | 4 11 | 5 16 | 0 53 | 9 7 | 0s 4 | 19 50 | 0 6 | 20 23 | 0 14 | 20 33 | 0 57 | 20 23 | 0 38 | 2 58 | 1 53 | 0 26 | 13 15 | 7 9 | 7 5 | 18 25 | | n.a. |
| T 17 | 9 8 | 28 14 | 4 46 | 6 14 | 0 43 | 8 54 | 0 11 | 19 52 | 0 9 | 20 25 | 0 14 | 20 33 | 0 58 | 20 23 | 0 38 | 2 58 | 1 53 | 0 26 | 13 15 | 7 8 | 7 4 | 18 28 | | n.a. |
| W18 | 9 30 | 28 46 | 5 8 | 7 12 | 0 33 | 8 40 | 0 17 | 19 55 | 0 12 | 20 28 | 0 14 | 20 32 | 0 58 | 20 23 | 0 38 | 2 59 | 1 53 | 0 25 | 13 15 | 7 8 | 7 2 | 18 31 | | n.a. |
| T 19 | 9 51 | 27 53 | 5 17 | 8 10 | 0 23 | 8 25 | 0 23 | 19 57 | 0 15 | 20 30 | 0 14 | 20 31 | 0 58 | 20 22 | 0 38 | 3 0 | 1 53 | 0 25 | 13 15 | 7 8 | 7 1 | 18 34 | | n.a. |
| F 20 | 10 12 | 25 35 | 5 11 | 9 9 | 0 13 | 8 10 | 0 29 | 19 59 | 0 18 | 20 33 | 0 14 | 20 31 | 0 58 | 20 22 | 0 38 | 3 1 | 1 53 | 0 24 | 13 15 | 7 8 | 7 0 | 18 36 | | n.a. |
| S 21 | 10 33 | 21 55 | 4 49 | 10 7 | 0 2 | 7 55 | 0 35 | 20 1 | 0 21 | 20 36 | 0 14 | 20 31 | 0 58 | 20 22 | 0 39 | 3 2 | 1 53 | 0 24 | 13 15 | 7 8 | 6 59 | 18 39 | | n.a. |
| S 22 | 10 54 | 17 1 | 4 11 | 11 5 | 0n 9 | 7 39 | 0 41 | 20 3 | 0 24 | 20 38 | 0 14 | 20 30 | 0 58 | 20 22 | 0 39 | 3 3 | 1 53 | 0 23 | 13 15 | 7 8 | 6 58 | 18 42 | | n.a. |
| M23 | 11 15 | 11 8 | 3 18 | 12 1 | 0 19 | 7 23 | 0 46 | 20 4 | 0 28 | 20 41 | 0 13 | 20 30 | 0 59 | 20 22 | 0 39 | 3 4 | 1 53 | 0 23 | 13 15 | 7 9 | 6 56 | 18 45 | | n.a. |
| T 24 | 11 36 | 4 29 | 2 11 | 12 57 | 0 29 | 7 6 | 0 51 | 20 6 | 0 31 | 20 43 | 0 13 | 20 29 | 0 59 | 20 21 | 0 39 | 3 4 | 1 53 | 0 22 | 13 15 | 7 9 | 6 55 | 18 47 | | n.a. |
| W25 | 11 56 | 2n34 | 0 53 | 13 52 | 0 40 | 6 49 | 0 57 | 20 7 | 0 34 | 20 46 | 0 13 | 20 29 | 0 59 | 20 21 | 0 39 | 3 5 | 1 53 | 0 22 | 13 15 | 7 9 | 6 54 | 18 50 | | n.a. |
| T 26 | 12 16 | 9 38 | 0n30 | 14 45 | 0 50 | 6 31 | 1 2 | 20 8 | 0 38 | 20 48 | 0 13 | 20 29 | 0 59 | 20 21 | 0 39 | 3 6 | 1 53 | 0 21 | 13 15 | 7 9 | 6 53 | 18 53 | | n.a. |
| F 27 | 12 36 | 16 15 | 1 51 | 15 37 | 0 59 | 6 13 | 1 7 | 20 9 | 0 41 | 20 51 | 0 13 | 20 28 | 0 59 | 20 21 | 0 39 | 3 7 | 1 53 | 0 21 | 13 15 | 7 9 | 6 51 | 18 56 | | n.a. |
| S 28 | 12 56 | 21 53 | 3 5 | 16 27 | 1 8 | 5 55 | 1 11 | 20 10 | 0 45 | 20 54 | 0 13 | 20 28 | 1 0 | 20 21 | 0 39 | 3 8 | 1 53 | 0 20 | 13 15 | 7 9 | 6 50 | 18 58 | | n.a. |
| S 29 | 13 15 | 26 2 | 4 5 | 17 15 | 1 17 | 5 36 | 1 16 | 20 11 | 0 48 | 20 56 | 0 13 | 20 28 | 1 0 | 20 21 | 0 39 | 3 8 | 1 53 | 0 20 | 13 15 | 7 8 | 6 49 | 19 1 | | n.a. |
| M30 | 13n35 | 28n20 | 4n48 | 18n 1 | 1n25 | 5s17 | 1s20 | 20s12 | 0s52 | 20n59 | 0s13 | 20s27 | 1s 0 | 20s21 | 0s39 | 3n 9 | 1s53 | 0s19 | 13s15 | 7n 7 | 6n48 | 19s 4 | | n.a. |

Julian Day Number = 1685353.5, Delta T = 03h13m18s
Ecliptic obliquity = 23°42'35, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°25'43, Lahiri = - 5°18'43 Julian Calendar 1 Apr. 99 BCE == Greg. Calendar 30 March 099 BCE

The year -98 astronomical counting style corresponds to year 099 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 99 BCE
# geocentric

## MAY 99 BCE (-98) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 22 39 | 6♉41'18 | 7♋54 | 17♉31 | 20♓51 | 25°R18 | 4♊11 | 3♒59 | 2♒59 | 12♈16 | 1♉28 | 17°R55 | 17♈ 4 | 15♏46 | n.a. | T 1 |
| W 2 | 14 26 36 | 7°38'42 | 21°53 | 19°33 | 21°50 | 25♏ 5 | 4°24 | 4° 0 | 3° 0 | 12°18 | 1°29 | 17♈53 | 17° 1 | 15°52 | n.a. | W 2 |
| T 3 | 14 30 32 | 8°36'04 | 5♌26 | 21°33 | 22°50 | 24°52 | 4°37 | 4° 2 | 3° 0 | 12°21 | 1°30 | 17°D53 | 16°57 | 15°59 | n.a. | T 3 |
| F 4 | 14 34 29 | 9°33'26 | 18°34 | 23°31 | 23°50 | 24°37 | 4°50 | 4° 3 | 3° 0 | 12°23 | 1°32 | 17°53 | 16°54 | 16° 6 | n.a. | F 4 |
| S 5 | 14 38 26 | 10°30'45 | 1♍20 | 25°26 | 24°50 | 24°22 | 5° 3 | 4° 5 | 3° 1 | 12°25 | 1°33 | 17°54 | 16°51 | 16°12 | n.a. | S 5 |
| S 6 | 14 42 22 | 11°28'04 | 13°48 | 27°20 | 25°50 | 24° 7 | 5°15 | 4° 6 | 3° 1 | 12°27 | 1°34 | 17°56 | 16°48 | 16°19 | n.a. | S 6 |
| M 7 | 14 46 19 | 12°25'22 | 26° 1 | 29°10 | 26°51 | 23°51 | 5°28 | 4° 7 | 3° 1 | 12°29 | 1°36 | 17°57 | 16°45 | 16°26 | n.a. | M 7 |
| T 8 | 14 50 15 | 13°22'38 | 8♎ 4 | 0♊59 | 27°52 | 23°35 | 5°41 | 4° 8 | 3° 1 | 12°31 | 1°37 | 17°58 | 16°41 | 16°32 | n.a. | T 8 |
| W 9 | 14 54 12 | 14°19'53 | 19°59 | 2°44 | 28°53 | 23°18 | 5°54 | 4° 9 | 3° 1 | 12°33 | 1°38 | 17°R59 | 16°38 | 16°39 | n.a. | W 9 |
| T 10 | 14 58 8 | 15°17'08 | 1♏50 | 4°27 | 29°55 | 23° 1 | 6° 8 | 4°10 | 3° 2 | 12°35 | 1°40 | 17°58 | 16°35 | 16°46 | n.a. | T 10 |
| F 11 | 15 2 5 | 16°14'22 | 13°39 | 6° 8 | 0♈56 | 22°44 | 6°21 | 4°11 | 3°R 2 | 12°37 | 1°41 | 17°56 | 16°32 | 16°52 | n.a. | F 11 |
| S 12 | 15 6 1 | 17°11'35 | 25°28 | 7°45 | 1°59 | 22°26 | 6°34 | 4°11 | 3° 2 | 12°39 | 1°42 | 17°52 | 16°29 | 16°59 | n.a. | S 12 |
| S 13 | 15 9 58 | 18° 8'48 | 7♐20 | 9°21 | 3° 1 | 22° 8 | 6°47 | 4°12 | 3° 1 | 12°40 | 1°44 | 17°47 | 16°26 | 17° 6 | n.a. | S 13 |
| M14 | 15 13 55 | 19° 6'00 | 19°16 | 10°53 | 4° 4 | 21°50 | 7° 0 | 4°13 | 3° 1 | 12°42 | 1°45 | 17°42 | 16°22 | 17°12 | n.a. | M14 |
| T 15 | 15 17 51 | 20° 3'11 | 1♑18 | 12°23 | 5° 6 | 21°31 | 7°13 | 4°13 | 3° 1 | 12°44 | 1°46 | 17°37 | 16°19 | 17°19 | n.a. | T 15 |
| W16 | 15 21 48 | 21° 0'22 | 13°30 | 13°50 | 6°10 | 21°12 | 7°27 | 4°13 | 3° 1 | 12°46 | 1°48 | 17°32 | 16°16 | 17°26 | n.a. | W16 |
| T 17 | 15 25 44 | 21°57'33 | 25°53 | 15°14 | 7°13 | 20°54 | 7°40 | 4°13 | 3° 1 | 12°48 | 1°49 | 17°28 | 16°13 | 17°32 | n.a. | T 17 |
| F 18 | 15 29 41 | 22°54'44 | 8♒30 | 16°35 | 8°17 | 20°35 | 7°53 | 4°R13 | 3° 0 | 12°50 | 1°50 | 17°25 | 16°10 | 17°39 | n.a. | F 18 |
| S 19 | 15 33 37 | 23°51'54 | 21°26 | 17°54 | 9°20 | 20°16 | 8° 7 | 4°13 | 3° 0 | 12°52 | 1°51 | 17°D24 | 16° 7 | 17°46 | n.a. | S 19 |
| S 20 | 15 37 34 | 24°49'04 | 4♓42 | 19°10 | 10°24 | 19°57 | 8°20 | 4°13 | 3° 0 | 12°53 | 1°53 | 17°25 | 16° 3 | 17°52 | n.a. | S 20 |
| M21 | 15 41 30 | 25°46'14 | 18°22 | 20°22 | 11°29 | 19°38 | 8°33 | 4°13 | 2°59 | 12°55 | 1°54 | 17°26 | 16° 0 | 17°59 | n.a. | M21 |
| T 22 | 15 45 27 | 26°43'23 | 2♈27 | 21°32 | 12°33 | 19°19 | 8°47 | 4°13 | 2°59 | 12°57 | 1°55 | 17°27 | 15°57 | 18° 6 | n.a. | T 22 |
| W23 | 15 49 24 | 27°40'33 | 16°57 | 22°39 | 13°38 | 19° 0 | 9° 0 | 4°12 | 2°58 | 12°59 | 1°56 | 17°R28 | 15°54 | 18°12 | n.a. | W23 |
| T 24 | 15 53 20 | 28°37'42 | 1♉47 | 23°43 | 14°42 | 18°42 | 9°13 | 4°12 | 2°58 | 13° 0 | 1°58 | 17°27 | 15°51 | 18°19 | n.a. | T 24 |
| F 25 | 15 57 17 | 29°34'52 | 16°53 | 24°43 | 15°47 | 18°24 | 9°27 | 4°11 | 2°57 | 13° 2 | 1°59 | 17°24 | 15°47 | 18°26 | n.a. | F 25 |
| S 26 | 16 1 13 | 0♊32'01 | 2♊ 6 | 25°41 | 16°53 | 18° 6 | 9°40 | 4°11 | 2°56 | 13° 4 | 2° 0 | 17°20 | 15°44 | 18°32 | n.a. | S 26 |
| S 27 | 16 5 10 | 1°29'10 | 17°16 | 26°34 | 17°58 | 17°48 | 9°54 | 4°10 | 2°56 | 13° 5 | 2° 1 | 17°14 | 15°41 | 18°39 | n.a. | S 27 |
| M28 | 16 9 6 | 2°26'19 | 2♋12 | 27°25 | 19° 4 | 17°31 | 10° 7 | 4° 9 | 2°55 | 13° 7 | 2° 3 | 17° 7 | 15°38 | 18°46 | n.a. | M28 |
| T 29 | 16 13 3 | 3°23'28 | 16°46 | 28°11 | 20° 9 | 17°15 | 10°21 | 4° 8 | 2°54 | 13° 9 | 2° 4 | 17° 1 | 15°35 | 18°52 | n.a. | T 29 |
| W30 | 16 17 0 | 4°20'36 | 0♌54 | 28°54 | 21°15 | 16°58 | 10°34 | 4° 7 | 2°53 | 13°10 | 2° 5 | 16°55 | 15°32 | 18°59 | n.a. | W30 |
| T 31 | 16 20 56 | 5♊17'43 | 14♌33 | 29♊34 | 22♈21 | 16♏43 | 10♊48 | 4♒ 6 | 2♒52 | 13♈12 | 2♉ 6 | 16♈52 | 15♈28 | 19♏ 6 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| T 1 | 13n54 | 28n39 | 5n11 | 18n44 | 1n33 | 4s57 | 1s24 | 20s12 | 0s56 | 21n 1 | 0s12 | 20s27 | 1s 0 | 20s21 | 0s39 | 3n10 | 1s53 | 0s19 | 13s15 | 7n 6 | 6n47 | 19s 7 | | | n.a. |
| W 2 | 14 13 | 27 5 | 5 15 | 19 25 | 1 40 | 4 37 | 1 28 | 20 13 | 0 59 | 21 4 | 0 12 | 20 27 | 1 0 | 20 20 | 0 39 | 3 11 | 1 53 | 0 18 | 13 15 | 7 6 | 6 45 | 19 9 | | | n.a. |
| T 3 | 14 32 | 23 59 | 5 1 | 20 4 | 1 47 | 4 17 | 1 32 | 20 13 | 1 3 | 21 6 | 0 12 | 20 27 | 1 0 | 20 20 | 0 39 | 3 12 | 1 53 | 0 18 | 13 15 | 7 5 | 6 44 | 19 12 | | | n.a. |
| F 4 | 14 50 | 19 44 | 4 32 | 20 40 | 1 52 | 3 57 | 1 36 | 20 13 | 1 7 | 21 9 | 0 12 | 20 26 | 1 1 | 20 20 | 0 39 | 3 12 | 1 53 | 0 18 | 13 15 | 7 6 | 6 43 | 19 15 | | | n.a. |
| S 5 | 15 9 | 14 41 | 3 49 | 21 14 | 1 57 | 3 36 | 1 40 | 20 13 | 1 11 | 21 11 | 0 12 | 20 26 | 1 1 | 20 20 | 0 39 | 3 13 | 1 53 | 0 17 | 13 15 | 7 6 | 6 42 | 19 17 | | | n.a. |
| S 6 | 15 27 | 9 10 | 2 57 | 21 45 | 2 2 | 3 15 | 1 43 | 20 13 | 1 15 | 21 14 | 0 12 | 20 26 | 1 1 | 20 20 | 0 39 | 3 14 | 1 53 | 0 17 | 13 15 | 7 7 | 6 40 | 19 20 | | | n.a. |
| M 7 | 15 44 | 3 24 | 1 58 | 22 14 | 2 5 | 2 54 | 1 46 | 20 13 | 1 18 | 21 16 | 0 12 | 20 26 | 1 1 | 20 20 | 0 39 | 3 15 | 1 53 | 0 16 | 13 15 | 7 7 | 6 39 | 19 23 | | | n.a. |
| T 8 | 16 2 | 2s24 | 0 54 | 22 40 | 2 8 | 2 32 | 1 50 | 20 12 | 1 22 | 21 18 | 0 12 | 20 26 | 1 1 | 20 20 | 0 39 | 3 16 | 1 53 | 0 16 | 13 15 | 7 8 | 6 38 | 19 25 | | | n.a. |
| W 9 | 16 19 | 8 4 | 0s11 | 23 4 | 2 10 | 2 10 | 1 53 | 20 12 | 1 26 | 21 21 | 0 11 | 20 26 | 1 2 | 20 20 | 0 39 | 3 16 | 1 54 | 0 15 | 13 15 | 7 8 | 6 37 | 19 28 | | | n.a. |
| T 10 | 16 36 | 13 25 | 1 15 | 23 26 | 2 12 | 1 48 | 1 55 | 20 11 | 1 30 | 21 23 | 0 11 | 20 26 | 1 2 | 20 20 | 0 39 | 3 17 | 1 54 | 0 15 | 13 15 | 7 7 | 6 35 | 19 31 | | | n.a. |
| F 11 | 16 53 | 18 17 | 2 16 | 23 45 | 2 12 | 1 26 | 1 58 | 20 10 | 1 34 | 21 26 | 0 11 | 20 26 | 1 2 | 20 20 | 0 39 | 3 18 | 1 54 | 0 15 | 13 15 | 7 7 | 6 34 | 19 34 | | | n.a. |
| S 12 | 17 9 | 22 26 | 3 11 | 24 1 | 2 12 | 1 3 | 2 1 | 20 9 | 1 38 | 21 28 | 0 11 | 20 26 | 1 2 | 20 20 | 0 39 | 3 18 | 1 54 | 0 14 | 13 15 | 7 5 | 6 33 | 19 36 | | | n.a. |
| S 13 | 17 26 | 25 41 | 3 58 | 24 16 | 2 11 | 0 40 | 2 3 | 20 8 | 1 41 | 21 30 | 0 11 | 20 26 | 1 2 | 20 20 | 0 39 | 3 19 | 1 54 | 0 14 | 13 15 | 7 3 | 6 32 | 19 39 | | | n.a. |
| M14 | 17 42 | 27 50 | 4 34 | 24 28 | 2 10 | 0 17 | 2 6 | 20 7 | 1 45 | 21 33 | 0 11 | 20 26 | 1 2 | 20 20 | 0 39 | 3 20 | 1 54 | 0 13 | 13 15 | 7 1 | 6 31 | 19 42 | | | n.a. |
| T 15 | 17 57 | 28 41 | 4 59 | 24 38 | 2 7 | 0n 6 | 2 8 | 20 6 | 1 49 | 21 35 | 0 11 | 20 26 | 1 3 | 20 21 | 0 39 | 3 21 | 1 54 | 0 13 | 13 15 | 6 59 | 6 29 | 19 44 | | | n.a. |
| W16 | 18 13 | 28 10 | 5 11 | 24 46 | 2 4 | 0 29 | 2 10 | 20 5 | 1 53 | 21 37 | 0 11 | 20 26 | 1 3 | 20 21 | 0 39 | 3 21 | 1 54 | 0 13 | 13 15 | 6 57 | 6 28 | 19 47 | | | n.a. |
| T 17 | 18 28 | 26 15 | 5 8 | 24 53 | 2 1 | 0 53 | 2 12 | 20 3 | 1 57 | 21 40 | 0 11 | 20 26 | 1 3 | 20 21 | 0 39 | 3 22 | 1 54 | 0 12 | 13 15 | 6 56 | 6 27 | 19 49 | | | n.a. |
| F 18 | 18 43 | 23 1 | 4 51 | 24 57 | 1 56 | 1 17 | 2 13 | 20 2 | 2 0 | 21 42 | 0 10 | 20 27 | 1 3 | 20 21 | 0 40 | 3 23 | 1 54 | 0 12 | 13 15 | 6 55 | 6 26 | 19 52 | | | n.a. |
| S 19 | 18 57 | 18 35 | 4 19 | 25 0 | 1 51 | 1 40 | 2 15 | 20 0 | 2 4 | 21 44 | 0 10 | 20 27 | 1 3 | 20 21 | 0 40 | 3 23 | 1 54 | 0 12 | 13 15 | 6 54 | 6 24 | 19 55 | | | n.a. |
| S 20 | 19 11 | 13 10 | 3 32 | 25 1 | 1 45 | 2 4 | 2 17 | 19 58 | 2 8 | 21 46 | 0 10 | 20 27 | 1 4 | 20 21 | 0 40 | 3 24 | 1 54 | 0 11 | 13 15 | 6 55 | 6 23 | 19 57 | | | n.a. |
| M21 | 19 25 | 6 58 | 2 32 | 25 0 | 1 39 | 2 29 | 2 18 | 19 56 | 2 11 | 21 49 | 0 10 | 20 27 | 1 4 | 20 21 | 0 40 | 3 25 | 1 54 | 0 11 | 13 15 | 6 55 | 6 22 | 20 0 | | | n.a. |
| T 22 | 19 39 | 0 15 | 1 21 | 24 58 | 1 32 | 2 53 | 2 19 | 19 55 | 2 15 | 21 51 | 0 10 | 20 27 | 1 4 | 20 21 | 0 40 | 3 25 | 1 54 | 0 10 | 13 16 | 6 56 | 6 21 | 20 3 | | | n.a. |
| W23 | 19 52 | 6n41 | 0 3 | 24 54 | 1 24 | 3 17 | 2 20 | 19 53 | 2 18 | 21 53 | 0 10 | 20 28 | 1 4 | 20 22 | 0 40 | 3 26 | 1 54 | 0 10 | 13 16 | 6 56 | 6 19 | 20 5 | | | n.a. |
| T 24 | 20 5 | 13 26 | 1n17 | 24 49 | 1 15 | 3 41 | 2 21 | 19 51 | 2 21 | 21 55 | 0 10 | 20 28 | 1 4 | 20 22 | 0 40 | 3 27 | 1 54 | 0 10 | 13 16 | 6 56 | 6 18 | 20 8 | | | n.a. |
| F 25 | 20 17 | 19 30 | 2 33 | 24 42 | 1 6 | 4 6 | 2 22 | 19 49 | 2 25 | 21 57 | 0 10 | 20 28 | 1 5 | 20 22 | 0 40 | 3 27 | 1 54 | 0 9 | 13 16 | 6 55 | 6 17 | 20 10 | | | n.a. |
| S 26 | 20 30 | 24 22 | 3 38 | 24 35 | 0 56 | 4 30 | 2 23 | 19 47 | 2 28 | 22 0 | 0 10 | 20 29 | 1 5 | 20 22 | 0 40 | 3 28 | 1 54 | 0 9 | 13 16 | 6 53 | 6 16 | 20 13 | | | n.a. |
| S 27 | 20 41 | 27 32 | 4 28 | 24 26 | 0 46 | 4 55 | 2 24 | 19 45 | 2 31 | 22 2 | 0 10 | 20 29 | 1 5 | 20 22 | 0 40 | 3 28 | 1 54 | 0 9 | 13 16 | 6 51 | 6 14 | 20 16 | | | n.a. |
| M28 | 20 53 | 28 40 | 4 58 | 24 16 | 0 35 | 5 19 | 2 24 | 19 43 | 2 34 | 22 4 | 0 9 | 20 29 | 1 5 | 20 22 | 0 40 | 3 29 | 1 54 | 0 9 | 13 16 | 6 48 | 6 13 | 20 18 | | | n.a. |
| T 29 | 21 4 | 27 44 | 5 8 | 24 5 | 0 23 | 5 44 | 2 25 | 19 41 | 2 37 | 22 6 | 0 9 | 20 30 | 1 5 | 20 23 | 0 40 | 3 30 | 1 54 | 0 8 | 13 16 | 6 45 | 6 12 | 20 21 | | | n.a. |
| W30 | 21 15 | 25 3 | 4 59 | 23 54 | 0 11 | 6 9 | 2 25 | 19 39 | 2 40 | 22 8 | 0 9 | 20 30 | 1 5 | 20 23 | 0 40 | 3 30 | 1 54 | 0 8 | 13 16 | 6 43 | 6 11 | 20 23 | | | n.a. |
| T 31 | 21n26 | 21n 0 | 4n33 | 23n41 | 0s 1 | 6n33 | 2s25 | 19s37 | 2s43 | 22n10 | 0s 9 | 20s31 | 1s 6 | 20s23 | 0s40 | 3n31 | 1s54 | 0s 8 | 13s16 | 6n42 | 6n 9 | 20s26 | | | n.a. |

Julian Day Number = 1685383.5, Delta T = 03h13m17s
Ecliptic obliquity = 23°42'34, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°25'39, Lahiri = - 5°18'38 Julian Calendar 1 May 99 BCE == Greg. Calendar 29 Apr. 099 BCE

The year -98 astronomical counting style corresponds to year 099 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 99 BCE
# geocentric

## JUNE 99 BCE (-98) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 16 24 53 | 6♊14'51 | 27♌44 | 0♋ 9 | 23♈27 | 16°R27 | 11♊ 1 | 4°R 4 | 2°R51 | 13♈13 | 2♉ 7 | 16°R50 | 15♈25 | 19♏12 | n.a. | F 1 |
| S 2 | 16 28 49 | 7°11'58 | 10♍30 | 0°40 | 24°33 | 16♏13 | 11°15 | 4♒ 3 | 2♒50 | 13°15 | 2° 8 | 16°D49 | 15°22 | 19°19 | n.a. | S 2 |
| S 3 | 16 32 46 | 8° 9'04 | 22°55 | 1° 7 | 25°40 | 15°59 | 11°28 | 4° 2 | 2°49 | 13°16 | 2°10 | 16♈50 | 15°19 | 19°26 | n.a. | S 3 |
| M 4 | 16 36 42 | 9° 6'11 | 5♎ 3 | 1°30 | 26°46 | 15°45 | 11°42 | 4° 0 | 2°48 | 13°18 | 2°11 | 16°51 | 15°16 | 19°32 | n.a. | M 4 |
| T 5 | 16 40 39 | 10° 3'17 | 17° 1 | 1°48 | 27°53 | 15°33 | 11°55 | 3°58 | 2°47 | 13°19 | 2°12 | 16°R52 | 15°13 | 19°39 | n.a. | T 5 |
| W 6 | 16 44 35 | 11° 0'23 | 28°51 | 2° 1 | 29° 0 | 15°21 | 12° 9 | 3°57 | 2°46 | 13°21 | 2°13 | 16°51 | 15° 9 | 19°46 | n.a. | W 6 |
| T 7 | 16 48 32 | 11°57'29 | 10♏39 | 2°10 | 0♉ 7 | 15° 9 | 12°22 | 3°55 | 2°45 | 13°22 | 2°14 | 16°48 | 15° 6 | 19°52 | n.a. | T 7 |
| F 8 | 16 52 29 | 12°54'36 | 22°28 | 2°R15 | 1°14 | 14°59 | 12°36 | 3°53 | 2°43 | 13°23 | 2°15 | 16°43 | 15° 3 | 19°59 | n.a. | F 8 |
| S 9 | 16 56 25 | 13°51'42 | 4♐20 | 2°14 | 2°21 | 14°49 | 12°49 | 3°51 | 2°42 | 13°25 | 2°16 | 16°35 | 15° 0 | 20° 6 | n.a. | S 9 |
| S 10 | 17 0 22 | 14°48'49 | 16°18 | 2° 9 | 3°29 | 14°40 | 13° 3 | 3°49 | 2°41 | 13°26 | 2°17 | 16°26 | 14°57 | 20°13 | n.a. | S 10 |
| M11 | 17 4 18 | 15°45'56 | 28°22 | 1°59 | 4°36 | 14°32 | 13°16 | 3°46 | 2°39 | 13°27 | 2°18 | 16°16 | 14°53 | 20°19 | n.a. | M11 |
| T 12 | 17 8 15 | 16°43'03 | 10♑35 | 1°45 | 5°44 | 14°24 | 13°30 | 3°44 | 2°38 | 13°28 | 2°19 | 16° 5 | 14°50 | 20°26 | n.a. | T 12 |
| W13 | 17 12 11 | 17°40'11 | 22°57 | 1°26 | 6°52 | 14°17 | 13°43 | 3°42 | 2°37 | 13°30 | 2°20 | 15°54 | 14°47 | 20°33 | n.a. | W13 |
| T 14 | 17 16 8 | 18°37'19 | 5♒30 | 1° 3 | 8° 0 | 14°12 | 13°57 | 3°39 | 2°35 | 13°31 | 2°21 | 15°46 | 14°44 | 20°39 | n.a. | T 14 |
| F 15 | 17 20 5 | 19°34'28 | 18°15 | 0°36 | 9° 8 | 14° 7 | 14°10 | 3°37 | 2°34 | 13°32 | 2°22 | 15°40 | 14°41 | 20°46 | n.a. | F 15 |
| S 16 | 17 24 1 | 20°31'38 | 1♓14 | 0° 6 | 10°16 | 14° 2 | 14°24 | 3°34 | 2°32 | 13°33 | 2°23 | 15°36 | 14°38 | 20°53 | n.a. | S 16 |
| S 17 | 17 27 58 | 21°28'48 | 14°30 | 29♊32 | 11°24 | 13°59 | 14°37 | 3°32 | 2°30 | 13°34 | 2°24 | 15°34 | 14°34 | 20°59 | n.a. | S 17 |
| M18 | 17 31 54 | 22°25'59 | 28° 4 | 28°55 | 12°33 | 13°56 | 14°51 | 3°29 | 2°29 | 13°35 | 2°25 | 15°D34 | 14°31 | 21° 6 | n.a. | M18 |
| T 19 | 17 35 51 | 23°23'11 | 11♈58 | 28°17 | 13°41 | 13°54 | 15° 4 | 3°26 | 2°27 | 13°36 | 2°26 | 15°R34 | 14°28 | 21°13 | n.a. | T 19 |
| W20 | 17 39 47 | 24°20'23 | 26°14 | 27°36 | 14°50 | 13°53 | 15°18 | 3°23 | 2°25 | 13°37 | 2°27 | 15°34 | 14°25 | 21°19 | n.a. | W20 |
| T 21 | 17 43 44 | 25°17'37 | 10♉49 | 26°55 | 15°58 | 13°D53 | 15°31 | 3°20 | 2°24 | 13°38 | 2°28 | 15°32 | 14°22 | 21°26 | n.a. | T 21 |
| F 22 | 17 47 40 | 26°14'51 | 25°40 | 26°14 | 17° 7 | 13°54 | 15°44 | 3°17 | 2°22 | 13°39 | 2°29 | 15°27 | 14°18 | 21°33 | n.a. | F 22 |
| S 23 | 17 51 37 | 27°12'07 | 10♊41 | 25°33 | 18°16 | 13°56 | 15°58 | 3°14 | 2°20 | 13°40 | 2°30 | 15°20 | 14°15 | 21°39 | n.a. | S 23 |
| S 24 | 17 55 34 | 28° 9'23 | 25°42 | 24°54 | 19°25 | 13°58 | 16°11 | 3°10 | 2°18 | 13°41 | 2°31 | 15°11 | 14°12 | 21°46 | n.a. | S 24 |
| M25 | 17 59 30 | 29° 6'40 | 10♋34 | 24°17 | 20°34 | 14° 1 | 16°24 | 3° 7 | 2°16 | 13°42 | 2°31 | 15° 1 | 14° 9 | 21°53 | n.a. | M25 |
| T 26 | 18 3 27 | 0♌ 3'58 | 25° 8 | 23°42 | 21°44 | 14° 5 | 16°38 | 3° 4 | 2°15 | 13°43 | 2°32 | 14°50 | 14° 6 | 21°59 | n.a. | T 26 |
| W27 | 18 7 23 | 1° 1'16 | 9♌18 | 23°11 | 22°53 | 14°10 | 16°51 | 3° 0 | 2°13 | 13°44 | 2°33 | 14°41 | 14° 3 | 22° 6 | n.a. | W27 |
| T 28 | 18 11 20 | 1°58'35 | 23° 0 | 22°43 | 24° 2 | 14°16 | 17° 4 | 2°57 | 2°11 | 13°44 | 2°34 | 14°34 | 13°59 | 22°13 | n.a. | T 28 |
| F 29 | 18 15 16 | 2°55'55 | 6♍14 | 22°21 | 25°12 | 14°23 | 17°18 | 2°53 | 2° 9 | 13°45 | 2°35 | 14°29 | 13°56 | 22°19 | n.a. | F 29 |
| S 30 | 18 19 13 | 3♌53'15 | 19♍ 2 | 22♊ 3 | 26♉21 | 14♏30 | 17♊31 | 2♒50 | 2♒ 7 | 13♈46 | 2♉35 | 14♈27 | 13♈53 | 22♏26 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 21n36 | 16n 2 | 3n54 | 23n28 | 0s14 | 6n58 | 2s25 | 19s36 | 2s46 | 22n12 | 0s 9 | 20s31 | 1s 6 | 20s23 | 0s40 | 3n31 | 1s54 | 0s 7 | 13s17 | 6n41 | 6n 8 | 20s29 | | n.a. |
| S 2 | 21 45 | 10 32 | 3 3 | 23 14 | 0 28 | 7 22 | 2 25 | 19 34 | 2 49 | 22 14 | 0 9 | 20 32 | 1 6 | 20 24 | 0 40 | 3 32 | 1 55 | 0 7 | 13 17 | 6 41 | 6 7 | 20 31 | | n.a. |
| S 3 | 21 55 | 4 46 | 2 5 | 23 0 | 0 42 | 7 47 | 2 25 | 19 32 | 2 51 | 22 16 | 0 9 | 20 32 | 1 6 | 20 24 | 0 40 | 3 32 | 1 55 | 0 7 | 13 17 | 6 41 | 6 6 | 20 34 | | n.a. |
| M 4 | 22 4 | 1s 4 | 1 3 | 22 46 | 0 57 | 8 11 | 2 25 | 19 31 | 2 54 | 22 18 | 0 9 | 20 33 | 1 6 | 20 24 | 0 40 | 3 33 | 1 55 | 0 7 | 13 17 | 6 42 | 6 5 | 20 36 | | n.a. |
| T 5 | 22 13 | 6 46 | 0s 1 | 22 31 | 1 11 | 8 36 | 2 25 | 19 29 | 2 57 | 22 20 | 0 9 | 20 33 | 1 7 | 20 25 | 0 40 | 3 33 | 1 55 | 0 6 | 13 17 | 6 42 | 6 3 | 20 39 | | n.a. |
| W 6 | 22 21 | 12 11 | 1 4 | 22 15 | 1 26 | 9 0 | 2 24 | 19 28 | 2 59 | 22 22 | 0 8 | 20 34 | 1 7 | 20 25 | 0 40 | 3 34 | 1 55 | 0 6 | 13 17 | 6 42 | 6 2 | 20 41 | | n.a. |
| T 7 | 22 29 | 17 9 | 2 4 | 22 0 | 1 42 | 9 24 | 2 24 | 19 27 | 3 1 | 22 24 | 0 8 | 20 35 | 1 7 | 20 25 | 0 40 | 3 34 | 1 55 | 0 6 | 13 17 | 6 40 | 6 1 | 20 44 | | n.a. |
| F 8 | 22 36 | 21 28 | 2 59 | 21 44 | 1 57 | 9 48 | 2 23 | 19 26 | 3 3 | 22 26 | 0 8 | 20 35 | 1 7 | 20 25 | 0 40 | 3 35 | 1 55 | 0 6 | 13 17 | 6 38 | 6 0 | 20 47 | | n.a. |
| S 9 | 22 43 | 24 57 | 3 46 | 21 29 | 2 12 | 10 12 | 2 22 | 19 25 | 3 6 | 22 27 | 0 8 | 20 36 | 1 7 | 20 26 | 0 40 | 3 35 | 1 55 | 0 6 | 13 18 | 6 36 | 5 58 | 20 49 | | n.a. |
| S 10 | 22 50 | 27 22 | 4 23 | 21 14 | 2 28 | 10 36 | 2 21 | 19 24 | 3 8 | 22 29 | 0 8 | 20 37 | 1 7 | 20 26 | 0 40 | 3 36 | 1 55 | 0 5 | 13 18 | 6 32 | 5 57 | 20 52 | | n.a. |
| M11 | 22 56 | 28 31 | 4 49 | 20 59 | 2 43 | 11 0 | 2 20 | 19 23 | 3 10 | 22 31 | 0 8 | 20 37 | 1 8 | 20 27 | 0 40 | 3 36 | 1 55 | 0 5 | 13 18 | 6 28 | 5 56 | 20 54 | | n.a. |
| T 12 | 23 2 | 28 18 | 5 2 | 20 44 | 2 58 | 11 23 | 2 19 | 19 23 | 3 11 | 22 33 | 0 8 | 20 38 | 1 8 | 20 27 | 0 40 | 3 37 | 1 55 | 0 5 | 13 18 | 6 24 | 5 55 | 20 57 | | n.a. |
| W13 | 23 8 | 26 41 | 5 1 | 20 30 | 3 12 | 11 47 | 2 18 | 19 23 | 3 13 | 22 35 | 0 8 | 20 39 | 1 8 | 20 27 | 0 40 | 3 37 | 1 55 | 0 5 | 13 18 | 6 20 | 5 53 | 20 59 | | n.a. |
| T 14 | 23 13 | 23 43 | 4 46 | 20 16 | 3 26 | 12 10 | 2 17 | 19 22 | 3 15 | 22 36 | 0 8 | 20 39 | 1 8 | 20 28 | 0 40 | 3 38 | 1 55 | 0 5 | 13 18 | 6 16 | 5 52 | 21 2 | | n.a. |
| F 15 | 23 18 | 19 35 | 4 16 | 20 3 | 3 39 | 12 33 | 2 16 | 19 22 | 3 16 | 22 38 | 0 8 | 20 40 | 1 8 | 20 28 | 0 40 | 3 38 | 1 55 | 0 4 | 13 19 | 6 14 | 5 51 | 21 4 | | n.a. |
| S 16 | 23 22 | 14 28 | 3 33 | 19 51 | 3 51 | 12 56 | 2 15 | 19 23 | 3 18 | 22 40 | 0 7 | 20 41 | 1 8 | 20 28 | 0 40 | 3 38 | 1 55 | 0 4 | 13 19 | 6 12 | 5 50 | 21 7 | | n.a. |
| S 17 | 23 26 | 8 35 | 2 37 | 19 40 | 4 3 | 13 19 | 2 13 | 19 23 | 3 19 | 22 41 | 0 7 | 20 42 | 1 9 | 20 29 | 0 41 | 3 39 | 1 55 | 0 4 | 13 19 | 6 12 | 5 48 | 21 9 | | n.a. |
| M18 | 23 29 | 2 11 | 1 32 | 19 30 | 4 13 | 13 41 | 2 12 | 19 23 | 3 21 | 22 43 | 0 7 | 20 43 | 1 9 | 20 29 | 0 41 | 3 39 | 1 55 | 0 4 | 13 19 | 6 12 | 5 47 | 21 12 | | n.a. |
| T 19 | 23 33 | 4n29 | 0 19 | 19 20 | 4 21 | 14 4 | 2 10 | 19 24 | 3 22 | 22 45 | 0 7 | 20 43 | 1 9 | 20 30 | 0 41 | 3 39 | 1 56 | 0 4 | 13 19 | 6 12 | 5 46 | 21 14 | | n.a. |
| W20 | 23 35 | 11 7 | 0n56 | 19 12 | 4 29 | 14 25 | 2 8 | 19 25 | 3 23 | 22 46 | 0 7 | 20 44 | 1 9 | 20 30 | 0 41 | 3 40 | 1 56 | 0 4 | 13 19 | 6 12 | 5 45 | 21 17 | | n.a. |
| T 21 | 23 37 | 17 17 | 2 10 | 19 6 | 4 35 | 14 47 | 2 7 | 19 26 | 3 24 | 22 48 | 0 7 | 20 45 | 1 9 | 20 30 | 0 41 | 3 40 | 1 56 | 0 4 | 13 20 | 6 11 | 5 43 | 21 19 | | n.a. |
| F 22 | 23 39 | 22 34 | 3 16 | 19 0 | 4 39 | 15 9 | 2 5 | 19 27 | 3 26 | 22 49 | 0 7 | 20 46 | 1 9 | 20 31 | 0 41 | 3 40 | 1 56 | 0 3 | 13 20 | 6 9 | 5 42 | 21 22 | | n.a. |
| S 23 | 23 41 | 26 24 | 4 9 | 18 57 | 4 42 | 15 30 | 2 3 | 19 29 | 3 27 | 22 51 | 0 7 | 20 47 | 1 10 | 20 31 | 0 41 | 3 41 | 1 56 | 0 3 | 13 20 | 6 6 | 5 41 | 21 24 | | n.a. |
| S 24 | 23 42 | 28 23 | 4 45 | 18 54 | 4 43 | 15 51 | 2 1 | 19 30 | 3 27 | 22 52 | 0 7 | 20 48 | 1 10 | 20 32 | 0 41 | 3 41 | 1 56 | 0 3 | 13 20 | 6 3 | 5 40 | 21 27 | | n.a. |
| M25 | 23 42 | 28 17 | 5 1 | 18 53 | 4 42 | 16 11 | 1 59 | 19 32 | 3 28 | 22 54 | 0 7 | 20 49 | 1 10 | 20 32 | 0 41 | 3 41 | 1 56 | 0 3 | 13 20 | 5 59 | 5 38 | 21 29 | | n.a. |
| T 26 | 23 43 | 26 12 | 4 57 | 18 54 | 4 39 | 16 31 | 1 57 | 19 34 | 3 29 | 22 55 | 0 6 | 20 50 | 1 10 | 20 33 | 0 41 | 3 42 | 1 56 | 0 3 | 13 21 | 5 55 | 5 37 | 21 31 | | n.a. |
| W27 | 23 42 | 22 32 | 4 35 | 18 57 | 4 35 | 16 51 | 1 55 | 19 36 | 3 30 | 22 57 | 0 6 | 20 51 | 1 10 | 20 33 | 0 41 | 3 42 | 1 56 | 0 3 | 13 21 | 5 51 | 5 36 | 21 34 | | n.a. |
| T 28 | 23 42 | 17 43 | 3 57 | 19 1 | 4 30 | 17 11 | 1 52 | 19 39 | 3 31 | 22 58 | 0 6 | 20 52 | 1 10 | 20 34 | 0 41 | 3 42 | 1 56 | 0 3 | 13 21 | 5 48 | 5 35 | 21 36 | | n.a. |
| F 29 | 23 41 | 12 13 | 3 8 | 19 7 | 4 23 | 17 30 | 1 50 | 19 41 | 3 31 | 23 0 | 0 6 | 20 53 | 1 11 | 20 34 | 0 41 | 3 42 | 1 56 | 0 3 | 13 21 | 5 46 | 5 33 | 21 39 | | n.a. |
| S 30 | 23n39 | 6n23 | 2n10 | 19n14 | 4s14 | 17n49 | 1s48 | 19s44 | 3s32 | 23n 1 | 0s 6 | 20s54 | 1s11 | 20s35 | 0s41 | 3n42 | 1s56 | 0s 3 | 13s21 | 5n45 | 5n32 | 21s41 | | n.a. |

Julian Day Number = 1685414.5, Delta T = 03h13m16s
Ecliptic obliquity = 23°42'34, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°25'35, Lahiri = - 5°18'34 Julian Calendar 1 June 99 BCE == Greg. Calendar 30 May 099 BCE

The year -98 astronomical counting style corresponds to year 099 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 99 BCE
# geocentric

## JULY 99 BCE (-98) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 23 9 | 4♋50'35 | 1♎28 | 21°R50 | 27♉31 | 14♏38 | 17♊44 | 2°R46 | 2°R 5 | 13♈47 | 2♉36 | 14°D26 | 13♈50 | 22♏33 | n.a. | S 1 |
| M 2 | 18 27 6 | 5°47'57 | 13°37 | 21♊43 | 28°41 | 14°47 | 17°57 | 2♒42 | 2♒ 3 | 13°47 | 2°37 | 14°R26 | 13°47 | 22°39 | n.a. | M 2 |
| T 3 | 18 31 3 | 6°45'19 | 25°34 | 21°D43 | 29°51 | 14°57 | 18°10 | 2°38 | 2° 0 | 13°48 | 2°37 | 14♈26 | 13°44 | 22°46 | n.a. | T 3 |
| W 4 | 18 34 59 | 7°42'42 | 7♏24 | 21°48 | 1♊ 1 | 15° 7 | 18°23 | 2°34 | 1°58 | 13°48 | 2°38 | 14°24 | 13°40 | 22°53 | n.a. | W 4 |
| T 5 | 18 38 56 | 8°40'06 | 19°12 | 22° 0 | 2°11 | 15°18 | 18°36 | 2°31 | 1°56 | 13°49 | 2°39 | 14°20 | 13°37 | 22°59 | n.a. | T 5 |
| F 6 | 18 42 52 | 9°37'30 | 1♐ 3 | 22°18 | 3°21 | 15°30 | 18°49 | 2°27 | 1°54 | 13°49 | 2°39 | 14°13 | 13°34 | 23° 6 | n.a. | F 6 |
| S 7 | 18 46 49 | 10°34'56 | 13° 0 | 22°43 | 4°31 | 15°43 | 19° 2 | 2°23 | 1°52 | 13°50 | 2°40 | 14° 4 | 13°31 | 23°13 | n.a. | S 7 |
| S 8 | 18 50 45 | 11°32'22 | 25° 6 | 23°15 | 5°41 | 15°56 | 19°15 | 2°18 | 1°50 | 13°50 | 2°41 | 13°52 | 13°28 | 23°19 | n.a. | S 8 |
| M 9 | 18 54 42 | 12°29'50 | 7♑22 | 23°53 | 6°52 | 16°10 | 19°28 | 2°14 | 1°48 | 13°51 | 2°41 | 13°39 | 13°25 | 23°26 | n.a. | M 9 |
| T 10 | 18 58 39 | 13°27'19 | 19°48 | 24°37 | 8° 2 | 16°25 | 19°41 | 2°10 | 1°45 | 13°51 | 2°42 | 13°26 | 13°21 | 23°33 | n.a. | T 10 |
| W11 | 19 2 35 | 14°24'49 | 2♒26 | 25°28 | 9°13 | 16°40 | 19°54 | 2° 6 | 1°43 | 13°51 | 2°42 | 13°14 | 13°18 | 23°39 | n.a. | W11 |
| T 12 | 19 6 32 | 15°22'21 | 15°15 | 26°25 | 10°24 | 16°56 | 20° 7 | 2° 2 | 1°41 | 13°52 | 2°43 | 13° 3 | 13°15 | 23°46 | n.a. | T 12 |
| F 13 | 19 10 28 | 16°19'53 | 28°16 | 27°28 | 11°34 | 17°13 | 20°20 | 1°57 | 1°39 | 13°52 | 2°43 | 12°55 | 13°12 | 23°53 | n.a. | F 13 |
| S 14 | 19 14 25 | 17°17'28 | 11♓28 | 28°38 | 12°45 | 17°30 | 20°32 | 1°53 | 1°36 | 13°52 | 2°44 | 12°50 | 13° 9 | 24° 0 | n.a. | S 14 |
| S 15 | 19 18 21 | 18°15'03 | 24°52 | 29°52 | 13°56 | 17°48 | 20°45 | 1°49 | 1°34 | 13°53 | 2°44 | 12°47 | 13° 5 | 24° 6 | n.a. | S 15 |
| M16 | 19 22 18 | 19°12'41 | 8♈29 | 1♋13 | 15° 7 | 18° 6 | 20°58 | 1°44 | 1°32 | 13°53 | 2°45 | 12°46 | 13° 2 | 24°13 | n.a. | M16 |
| T 17 | 19 26 14 | 20°10'20 | 22°19 | 2°39 | 16°18 | 18°26 | 21°10 | 1°40 | 1°29 | 13°53 | 2°45 | 12°46 | 12°59 | 24°20 | n.a. | T 17 |
| W18 | 19 30 11 | 21° 8'01 | 6♉25 | 4° 9 | 17°29 | 18°45 | 21°23 | 1°36 | 1°27 | 13°53 | 2°46 | 12°46 | 12°56 | 24°26 | n.a. | W18 |
| T 19 | 19 34 7 | 22° 5'43 | 20°44 | 5°44 | 18°41 | 19° 5 | 21°35 | 1°31 | 1°25 | 13°53 | 2°46 | 12°43 | 12°53 | 24°33 | n.a. | T 19 |
| F 20 | 19 38 4 | 23° 3'28 | 5♊15 | 7°23 | 19°52 | 19°26 | 21°48 | 1°27 | 1°22 | 13°53 | 2°46 | 12°39 | 12°50 | 24°40 | n.a. | F 20 |
| S 21 | 19 42 1 | 24° 1'14 | 19°54 | 9° 6 | 21° 3 | 19°48 | 22° 0 | 1°22 | 1°20 | 13°R53 | 2°47 | 12°31 | 12°46 | 24°46 | n.a. | S 21 |
| S 22 | 19 45 57 | 24°59'02 | 4♋34 | 10°53 | 22°15 | 20° 9 | 22°13 | 1°18 | 1°18 | 13°53 | 2°47 | 12°22 | 12°43 | 24°53 | n.a. | S 22 |
| M23 | 19 49 54 | 25°56'51 | 19° 8 | 12°42 | 23°26 | 20°32 | 22°25 | 1°13 | 1°15 | 13°53 | 2°47 | 12°11 | 12°40 | 25° 0 | n.a. | M23 |
| T 24 | 19 53 50 | 26°54'42 | 3♌28 | 14°34 | 24°38 | 20°55 | 22°37 | 1° 9 | 1°13 | 13°53 | 2°48 | 12° 0 | 12°37 | 25° 6 | n.a. | T 24 |
| W25 | 19 57 47 | 27°52'35 | 17°29 | 16°28 | 25°50 | 21°18 | 22°49 | 1° 4 | 1°10 | 13°53 | 2°48 | 11°50 | 12°34 | 25°13 | n.a. | W25 |
| T 26 | 20 1 43 | 28°50'29 | 1♍ 6 | 18°24 | 27° 1 | 21°42 | 23° 1 | 1° 0 | 1° 8 | 13°53 | 2°48 | 11°42 | 12°31 | 25°20 | n.a. | T 26 |
| F 27 | 20 5 40 | 29°48'24 | 14°18 | 20°21 | 28°13 | 22° 7 | 23°13 | 0°55 | 1° 6 | 13°53 | 2°48 | 11°36 | 12°27 | 25°26 | n.a. | F 27 |
| S 28 | 20 9 37 | 0♌46'21 | 27° 6 | 22°19 | 29°25 | 22°32 | 23°25 | 0°50 | 1° 3 | 13°52 | 2°49 | 11°33 | 12°24 | 25°33 | n.a. | S 28 |
| S 29 | 20 13 33 | 1°44'19 | 9♎33 | 24°17 | 0♋37 | 22°57 | 23°37 | 0°46 | 1° 1 | 13°52 | 2°49 | 11°D33 | 12°21 | 25°40 | n.a. | S 29 |
| M30 | 20 17 30 | 2°42'19 | 21°43 | 26°16 | 1°49 | 23°23 | 23°49 | 0°41 | 0°58 | 13°52 | 2°49 | 11°33 | 12°18 | 25°46 | n.a. | M30 |
| T 31 | 20 21 26 | 3♌40'20 | 3♏41 | 28♋15 | 3♋ 1 | 23♏49 | 24♊ 1 | 0♒37 | 0♒56 | 13♈52 | 2♉49 | 11°R33 | 12♈15 | 25♏53 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| S 1 | 23n37 | 0n27 | 1n 8 | 19n23 | 4s 4 | 18n 7 | 1s45 | 19s47 | 3s32 | 23n 2 | 0s 6 | 20s55 | 1s11 | 20s35 | 0s41 | 3n43 | 1s56 | 0s 3 | 13s22 | 5n45 | 5n31 | 21s44 | | | n.a. |
| M 2 | 23 35 | 5s22 | 0 4 | 19 34 | 3 54 | 18 25 | 1 43 | 19 50 | 3 33 | 23 4 | 0 6 | 20 56 | 1 11 | 20 35 | 0 41 | 3 43 | 1 56 | 0 3 | 13 22 | 5 45 | 5 30 | 21 46 | | | n.a. |
| T 3 | 23 32 | 10 54 | 0s59 | 19 46 | 3 42 | 18 42 | 1 41 | 19 53 | 3 33 | 23 5 | 0 6 | 20 57 | 1 11 | 20 36 | 0 41 | 3 43 | 1 56 | 0 3 | 13 22 | 5 45 | 5 28 | 21 48 | | | n.a. |
| W 4 | 23 29 | 16 0 | 1 58 | 19 59 | 3 29 | 19 0 | 1 38 | 19 57 | 3 33 | 23 6 | 0 6 | 20 58 | 1 11 | 20 36 | 0 41 | 3 43 | 1 56 | 0 3 | 13 22 | 5 44 | 5 27 | 21 51 | | | n.a. |
| T 5 | 23 25 | 20 29 | 2 53 | 20 13 | 3 15 | 19 16 | 1 36 | 20 0 | 3 34 | 23 7 | 0 6 | 20 59 | 1 11 | 20 37 | 0 41 | 3 43 | 1 57 | 0 3 | 13 23 | 5 43 | 5 26 | 21 53 | | | n.a. |
| F 6 | 23 21 | 24 11 | 3 40 | 20 28 | 3 1 | 19 33 | 1 33 | 20 4 | 3 34 | 23 9 | 0 5 | 21 0 | 1 12 | 20 37 | 0 41 | 3 43 | 1 57 | 0 3 | 13 23 | 5 40 | 5 25 | 21 56 | | | n.a. |
| S 7 | 23 17 | 26 52 | 4 18 | 20 44 | 2 47 | 19 48 | 1 30 | 20 8 | 3 34 | 23 10 | 0 5 | 21 1 | 1 12 | 20 38 | 0 41 | 3 44 | 1 57 | 0 3 | 13 23 | 5 37 | 5 24 | 21 58 | | | n.a. |
| S 8 | 23 12 | 28 21 | 4 44 | 21 1 | 2 32 | 20 4 | 1 28 | 20 12 | 3 34 | 23 11 | 0 5 | 21 2 | 1 12 | 20 39 | 0 41 | 3 44 | 1 57 | 0 3 | 13 23 | 5 32 | 5 22 | 22 0 | | | n.a. |
| M 9 | 23 7 | 28 28 | 4 58 | 21 18 | 2 16 | 20 18 | 1 25 | 20 17 | 3 34 | 23 12 | 0 5 | 21 3 | 1 12 | 20 39 | 0 41 | 3 44 | 1 57 | 0 3 | 13 23 | 5 27 | 5 21 | 22 3 | | | n.a. |
| T 10 | 23 1 | 27 8 | 4 58 | 21 35 | 2 1 | 20 33 | 1 22 | 20 21 | 3 34 | 23 13 | 0 5 | 21 4 | 1 12 | 20 40 | 0 41 | 3 44 | 1 57 | 0 3 | 13 24 | 5 22 | 5 20 | 22 5 | | | n.a. |
| W11 | 22 55 | 24 26 | 4 43 | 21 53 | 1 45 | 20 47 | 1 19 | 20 26 | 3 34 | 23 14 | 0 5 | 21 5 | 1 12 | 20 40 | 0 41 | 3 44 | 1 57 | 0 3 | 13 24 | 5 17 | 5 19 | 22 8 | | | n.a. |
| T 12 | 22 49 | 20 29 | 4 14 | 22 10 | 1 30 | 21 0 | 1 16 | 20 30 | 3 34 | 23 15 | 0 5 | 21 6 | 1 12 | 20 41 | 0 41 | 3 44 | 1 57 | 0 3 | 13 24 | 5 13 | 5 17 | 22 10 | | | n.a. |
| F 13 | 22 42 | 15 31 | 3 32 | 22 27 | 1 14 | 21 13 | 1 14 | 20 35 | 3 34 | 23 16 | 0 5 | 21 7 | 1 12 | 20 41 | 0 41 | 3 44 | 1 57 | 0 3 | 13 24 | 5 9 | 5 16 | 22 12 | | | n.a. |
| S 14 | 22 35 | 9 46 | 2 37 | 22 43 | 0 59 | 21 25 | 1 11 | 20 40 | 3 34 | 23 17 | 0 5 | 21 9 | 1 13 | 20 42 | 0 41 | 3 44 | 1 57 | 0 3 | 13 25 | 5 7 | 5 15 | 22 15 | | | n.a. |
| S 15 | 22 27 | 3 29 | 1 33 | 22 58 | 0 44 | 21 37 | 1 8 | 20 45 | 3 34 | 23 18 | 0 5 | 21 10 | 1 13 | 20 42 | 0 41 | 3 44 | 1 57 | 0 3 | 13 25 | 5 6 | 5 14 | 22 17 | | | n.a. |
| M16 | 22 19 | 3n 3 | 0 23 | 23 13 | 0 30 | 21 48 | 1 5 | 20 50 | 3 34 | 23 19 | 0 4 | 21 11 | 1 13 | 20 43 | 0 41 | 3 44 | 1 57 | 0 3 | 13 25 | 5 6 | 5 12 | 22 19 | | | n.a. |
| T 17 | 22 10 | 9 34 | 0n50 | 23 25 | 0 16 | 21 58 | 1 2 | 20 55 | 3 34 | 23 20 | 0 4 | 21 12 | 1 13 | 20 43 | 0 41 | 3 44 | 1 57 | 0 3 | 13 25 | 5 6 | 5 11 | 22 22 | | | n.a. |
| W18 | 22 2 | 15 43 | 2 2 | 23 37 | 0 2 | 22 8 | 0 59 | 21 1 | 3 33 | 23 21 | 0 4 | 21 13 | 1 13 | 20 44 | 0 41 | 3 44 | 1 57 | 0 3 | 13 26 | 5 6 | 5 10 | 22 24 | | | n.a. |
| T 19 | 21 52 | 21 8 | 3 6 | 23 46 | 0n11 | 22 18 | 0 56 | 21 6 | 3 33 | 23 22 | 0 4 | 21 14 | 1 13 | 20 44 | 0 41 | 3 44 | 1 58 | 0 3 | 13 26 | 5 5 | 5 9 | 22 26 | | | n.a. |
| F 20 | 21 43 | 25 21 | 4 0 | 23 53 | 0 23 | 22 26 | 0 53 | 21 12 | 3 33 | 23 23 | 0 4 | 21 15 | 1 13 | 20 45 | 0 41 | 3 44 | 1 58 | 0 4 | 13 26 | 5 3 | 5 7 | 22 29 | | | n.a. |
| S 21 | 21 33 | 27 57 | 4 38 | 23 58 | 0 34 | 22 34 | 0 50 | 21 17 | 3 33 | 23 24 | 0 4 | 21 16 | 1 13 | 20 45 | 0 41 | 3 44 | 1 58 | 0 4 | 13 26 | 5 0 | 5 6 | 22 31 | | | n.a. |
| S 22 | 21 23 | 28 36 | 4 58 | 24 0 | 0 45 | 22 42 | 0 47 | 21 23 | 3 32 | 23 25 | 0 4 | 21 17 | 1 13 | 20 46 | 0 41 | 3 44 | 1 58 | 0 4 | 13 27 | 4 56 | 5 5 | 22 33 | | | n.a. |
| M23 | 21 12 | 27 15 | 4 59 | 24 0 | 0 55 | 22 49 | 0 44 | 21 29 | 3 32 | 23 26 | 0 4 | 21 19 | 1 14 | 20 46 | 0 41 | 3 44 | 1 58 | 0 4 | 13 27 | 4 52 | 5 4 | 22 36 | | | n.a. |
| T 24 | 21 1 | 24 8 | 4 40 | 23 58 | 1 4 | 22 55 | 0 41 | 21 35 | 3 31 | 23 26 | 0 4 | 21 20 | 1 14 | 20 47 | 0 41 | 3 44 | 1 58 | 0 4 | 13 27 | 4 48 | 5 2 | 22 38 | | | n.a. |
| W25 | 20 49 | 19 39 | 4 5 | 23 52 | 1 12 | 23 1 | 0 38 | 21 41 | 3 31 | 23 27 | 0 4 | 21 21 | 1 14 | 20 48 | 0 41 | 3 44 | 1 58 | 0 4 | 13 27 | 4 44 | 5 1 | 22 40 | | | n.a. |
| T 26 | 20 37 | 14 16 | 3 17 | 23 44 | 1 19 | 23 6 | 0 35 | 21 47 | 3 30 | 23 28 | 0 3 | 21 22 | 1 14 | 20 48 | 0 41 | 3 44 | 1 58 | 0 4 | 13 28 | 4 41 | 5 0 | 22 42 | | | n.a. |
| F 27 | 20 25 | 8 23 | 2 19 | 23 34 | 1 26 | 23 10 | 0 32 | 21 53 | 3 30 | 23 29 | 0 3 | 21 23 | 1 14 | 20 49 | 0 41 | 3 43 | 1 58 | 0 5 | 13 28 | 4 38 | 4 59 | 22 45 | | | n.a. |
| S 28 | 20 13 | 2 19 | 1 16 | 23 20 | 1 31 | 23 14 | 0 29 | 21 59 | 3 29 | 23 29 | 0 3 | 21 24 | 1 14 | 20 49 | 0 41 | 3 43 | 1 58 | 0 5 | 13 28 | 4 37 | 4 57 | 22 47 | | | n.a. |
| S 29 | 20 0 | 3s40 | 0 11 | 23 4 | 1 36 | 23 17 | 0 26 | 22 5 | 3 29 | 23 30 | 0 3 | 21 25 | 1 14 | 20 50 | 0 41 | 3 43 | 1 58 | 0 5 | 13 28 | 4 37 | 4 56 | 22 49 | | | n.a. |
| M30 | 19 47 | 9 23 | 0s54 | 22 46 | 1 40 | 23 19 | 0 23 | 22 11 | 3 28 | 23 31 | 0 3 | 21 26 | 1 14 | 20 50 | 0 41 | 3 43 | 1 58 | 0 5 | 13 29 | 4 37 | 4 55 | 22 51 | | | n.a. |
| T 31 | 19n33 | 14s41 | 1s55 | 22n25 | 1n43 | 23n21 | 0s19 | 22s17 | 3s28 | 23n31 | 0s 3 | 21s27 | 1s14 | 20s51 | 0s41 | 3n43 | 1s58 | 0s 5 | 13s29 | 4n37 | 4n54 | 22s54 | | | n.a. |

Julian Day Number = 1685444.5, Delta T = 03h13m15s
Ecliptic obliquity = 23°42'34, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°25'31, Lahiri = - 5°18'30 Julian Calendar 1 July 99 BCE == Greg. Calendar 29 June 099 BCE

The year -98 astronomical counting style corresponds to year 099 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 99 BCE
# geocentric

## AUGUST 99 BCE (-98) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 20 25 23 | 4♌38'23 | 15♏32 | 0♌13 | 4♋14 | 24♏16 | 24♊13 | 0°R32 | 0°R54 | 13°R51 | 2♉49 | 11°R32 | 12♈11 | 26♏ 0 | n.a. | W 1 |
| T 2 | 20 29 19 | 5°36'27 | 27°22 | 2°12 | 5°26 | 24°43 | 24°24 | 0♒28 | 0♒51 | 13♈51 | 2°49 | 11♈30 | 12° 8 | 26° 6 | n.a. | T 2 |
| F 3 | 20 33 16 | 6°34'33 | 9♐16 | 4° 9 | 6°38 | 25°11 | 24°36 | 0°23 | 0°49 | 13°50 | 2°49 | 11°25 | 12° 5 | 26°13 | n.a. | F 3 |
| S 4 | 20 37 12 | 7°32'40 | 21°18 | 6° 6 | 7°51 | 25°39 | 24°48 | 0°19 | 0°46 | 13°50 | 2°49 | 11°18 | 12° 2 | 26°20 | n.a. | S 4 |
| S 5 | 20 41 9 | 8°30'49 | 3♑30 | 8° 3 | 9° 3 | 26° 7 | 24°59 | 0°14 | 0°44 | 13°50 | 2°49 | 11° 9 | 11°59 | 26°27 | n.a. | S 5 |
| M 6 | 20 45 6 | 9°29'00 | 15°56 | 9°58 | 10°16 | 26°36 | 25°10 | 0°10 | 0°42 | 13°49 | 2°R49 | 10°59 | 11°56 | 26°33 | n.a. | M 6 |
| T 7 | 20 49 2 | 10°27'12 | 28°37 | 11°52 | 11°28 | 27° 5 | 25°22 | 0° 5 | 0°39 | 13°49 | 2°49 | 10°48 | 11°52 | 26°40 | n.a. | T 7 |
| W 8 | 20 52 59 | 11°25'26 | 11♒33 | 13°45 | 12°41 | 27°35 | 25°33 | 0° 1 | 0°37 | 13°48 | 2°49 | 10°38 | 11°49 | 26°47 | n.a. | W 8 |
| T 9 | 20 56 55 | 12°23'42 | 24°43 | 15°38 | 13°54 | 28° 5 | 25°44 | 29♑56 | 0°35 | 13°47 | 2°49 | 10°29 | 11°46 | 26°53 | n.a. | T 9 |
| F 10 | 21 0 52 | 13°22'00 | 8♓ 6 | 17°29 | 15° 6 | 28°35 | 25°55 | 29°52 | 0°32 | 13°47 | 2°49 | 10°22 | 11°43 | 27° 0 | n.a. | F 10 |
| S 11 | 21 4 48 | 14°20'20 | 21°39 | 19°19 | 16°19 | 29° 6 | 26° 6 | 29°48 | 0°30 | 13°46 | 2°49 | 10°19 | 11°40 | 27° 7 | n.a. | S 11 |
| S 12 | 21 8 45 | 15°18'42 | 5♈22 | 21° 8 | 17°32 | 29°37 | 26°17 | 29°43 | 0°28 | 13°45 | 2°49 | 10°D17 | 11°36 | 27°13 | n.a. | S 12 |
| M13 | 21 12 41 | 16°17'06 | 19°13 | 22°56 | 18°45 | 0♐ 8 | 26°28 | 29°39 | 0°25 | 13°45 | 2°49 | 10°17 | 11°33 | 27°20 | n.a. | M13 |
| T 14 | 21 16 38 | 17°15'33 | 3♉11 | 24°42 | 19°58 | 0°40 | 26°38 | 29°35 | 0°23 | 13°44 | 2°49 | 10°18 | 11°30 | 27°27 | n.a. | T 14 |
| W15 | 21 20 34 | 18°14'02 | 17°16 | 26°28 | 21°11 | 1°12 | 26°49 | 29°31 | 0°21 | 13°43 | 2°48 | 10°R19 | 11°27 | 27°33 | n.a. | W15 |
| T 16 | 21 24 31 | 19°12'33 | 1♊26 | 28°12 | 22°25 | 1°44 | 27° 0 | 29°26 | 0°19 | 13°42 | 2°48 | 10°18 | 11°24 | 27°40 | n.a. | T 16 |
| F 17 | 21 28 28 | 20°11'06 | 15°41 | 29°56 | 23°38 | 2°16 | 27°10 | 29°22 | 0°16 | 13°42 | 2°48 | 10°15 | 11°21 | 27°47 | n.a. | F 17 |
| S 18 | 21 32 24 | 21° 9'42 | 29°57 | 1♍38 | 24°51 | 2°49 | 27°20 | 29°18 | 0°14 | 13°41 | 2°48 | 10°11 | 11°17 | 27°53 | n.a. | S 18 |
| S 19 | 21 36 21 | 22° 8'20 | 14♋10 | 3°19 | 26° 5 | 3°22 | 27°31 | 29°14 | 0°12 | 13°40 | 2°48 | 10° 4 | 11°14 | 28° 0 | n.a. | S 19 |
| M20 | 21 40 17 | 23° 7'00 | 28°17 | 5° 0 | 27°18 | 3°56 | 27°41 | 29°10 | 0°10 | 13°39 | 2°47 | 9°57 | 11°11 | 28° 7 | n.a. | M20 |
| T 21 | 21 44 14 | 24° 5'43 | 12♌13 | 6°39 | 28°32 | 4°29 | 27°51 | 29° 6 | 0° 8 | 13°38 | 2°47 | 9°49 | 11° 8 | 28°14 | n.a. | T 21 |
| W22 | 21 48 10 | 25° 4'27 | 25°54 | 8°17 | 29°45 | 5° 3 | 28° 1 | 29° 2 | 0° 6 | 13°37 | 2°47 | 9°42 | 11° 5 | 28°20 | n.a. | W22 |
| T 23 | 21 52 7 | 26° 3'14 | 9♍16 | 9°54 | 0♌59 | 5°38 | 28°11 | 28°59 | 0° 4 | 13°36 | 2°46 | 9°37 | 11° 2 | 28°27 | n.a. | T 23 |
| F 24 | 21 56 3 | 27° 2'02 | 22°18 | 11°30 | 2°13 | 6°12 | 28°21 | 28°55 | 0° 1 | 13°35 | 2°46 | 9°33 | 10°58 | 28°34 | n.a. | F 24 |
| S 25 | 22 0 0 | 28° 0'53 | 5♎ 1 | 13° 6 | 3°26 | 6°47 | 28°30 | 28°51 | 29♑59 | 13°34 | 2°46 | 9°D32 | 10°55 | 28°40 | n.a. | S 25 |
| S 26 | 22 3 57 | 28°59'45 | 17°25 | 14°40 | 4°40 | 7°22 | 28°40 | 28°47 | 29°57 | 13°33 | 2°45 | 9°32 | 10°52 | 28°47 | n.a. | S 26 |
| M27 | 22 7 53 | 29°58'39 | 29°35 | 16°13 | 5°54 | 7°57 | 28°49 | 28°44 | 29°55 | 13°32 | 2°45 | 9°33 | 10°49 | 28°54 | n.a. | M27 |
| T 28 | 22 11 50 | 0♍57'35 | 11♏33 | 17°46 | 7° 8 | 8°33 | 28°58 | 28°40 | 29°54 | 13°31 | 2°44 | 9°35 | 10°46 | 29° 0 | n.a. | T 28 |
| W29 | 22 15 46 | 1°56'34 | 23°25 | 19°17 | 8°22 | 9° 9 | 29° 8 | 28°37 | 29°52 | 13°29 | 2°44 | 9°36 | 10°42 | 29° 7 | n.a. | W29 |
| T 30 | 22 19 43 | 2°55'33 | 5♐16 | 20°48 | 9°36 | 9°45 | 29°17 | 28°34 | 29°50 | 13°28 | 2°43 | 9°R37 | 10°39 | 29°14 | n.a. | T 30 |
| F 31 | 22 23 39 | 3♍54'35 | 17♐11 | 22♍17 | 10♌50 | 10♐21 | 29♊26 | 28♑30 | 29♑48 | 13♈27 | 2♉43 | 9♈36 | 10♈36 | 29♏20 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| W 1 | 19n19 | 19s24 | 2s51 | 22n 2 | 1n45 | 23n22 | 0s16 | 22s23 | 3s27 | 23n32 | 0s 3 | 21s28 | 1s14 | 20s51 | 0s41 | 3n43 | 1s58 | 0s 5 | 13s29 | 4n37 | 4n52 | 22s56 | | | n.a. |
| T 2 | 19 5 | 23 20 | 3 39 | 21 37 | 1 46 | 23 22 | 0 13 | 22 30 | 3 26 | 23 33 | 0 3 | 21 29 | 1 14 | 20 52 | 0 41 | 3 42 | 1 58 | 0 6 | 13 29 | 4 36 | 4 51 | 22 58 | | | n.a. |
| F 3 | 18 50 | 26 20 | 4 18 | 21 10 | 1 47 | 23 22 | 0 10 | 22 36 | 3 26 | 23 33 | 0 3 | 21 30 | 1 15 | 20 52 | 0 41 | 3 42 | 1 59 | 0 6 | 13 30 | 4 34 | 4 50 | 23 0 | | | n.a. |
| S 4 | 18 35 | 28 10 | 4 45 | 20 41 | 1 47 | 23 21 | 0 7 | 22 42 | 3 25 | 23 34 | 0 3 | 21 32 | 1 15 | 20 53 | 0 41 | 3 42 | 1 59 | 0 6 | 13 30 | 4 31 | 4 48 | 23 3 | | | n.a. |
| S 5 | 18 20 | 28 40 | 5 1 | 20 11 | 1 47 | 23 19 | 0 5 | 22 49 | 3 24 | 23 34 | 0 2 | 21 33 | 1 15 | 20 53 | 0 41 | 3 42 | 1 59 | 0 6 | 13 30 | 4 28 | 4 47 | 23 5 | | | n.a. |
| M 6 | 18 5 | 27 45 | 5 2 | 19 39 | 1 46 | 23 17 | 0 2 | 22 55 | 3 24 | 23 35 | 0 2 | 21 34 | 1 15 | 20 54 | 0 41 | 3 41 | 1 59 | 0 7 | 13 30 | 4 24 | 4 46 | 23 7 | | | n.a. |
| T 7 | 17 49 | 25 23 | 4 49 | 19 5 | 1 44 | 23 14 | 0n 1 | 23 1 | 3 23 | 23 35 | 0 2 | 21 35 | 1 15 | 20 54 | 0 41 | 3 41 | 1 59 | 0 7 | 13 31 | 4 19 | 4 45 | 23 9 | | | n.a. |
| W 8 | 17 33 | 21 41 | 4 21 | 18 31 | 1 42 | 23 10 | 0 4 | 23 7 | 3 22 | 23 36 | 0 2 | 21 36 | 1 15 | 20 55 | 0 41 | 3 41 | 1 59 | 0 7 | 13 31 | 4 15 | 4 43 | 23 12 | | | n.a. |
| T 9 | 17 16 | 16 51 | 3 39 | 17 55 | 1 39 | 23 6 | 0 7 | 23 14 | 3 21 | 23 36 | 0 2 | 21 37 | 1 15 | 20 55 | 0 41 | 3 41 | 1 59 | 0 7 | 13 31 | 4 12 | 4 42 | 23 14 | | | n.a. |
| F 10 | 17 0 | 11 9 | 2 43 | 17 18 | 1 36 | 23 0 | 0 10 | 23 20 | 3 21 | 23 37 | 0 2 | 21 38 | 1 15 | 20 56 | 0 41 | 3 40 | 1 59 | 0 8 | 13 31 | 4 9 | 4 41 | 23 16 | | | n.a. |
| S 11 | 16 43 | 4 51 | 1 38 | 16 40 | 1 33 | 22 55 | 0 13 | 23 26 | 3 20 | 23 37 | 0 2 | 21 39 | 1 15 | 20 56 | 0 41 | 3 40 | 1 59 | 0 8 | 13 32 | 4 8 | 4 40 | 23 18 | | | n.a. |
| S 12 | 16 26 | 1n45 | 0 26 | 16 1 | 1 29 | 22 48 | 0 16 | 23 32 | 3 19 | 23 38 | 0 2 | 21 40 | 1 15 | 20 57 | 0 41 | 3 40 | 1 59 | 0 8 | 13 32 | 4 7 | 4 38 | 23 20 | | | n.a. |
| M13 | 16 8 | 8 20 | 0n48 | 15 22 | 1 25 | 22 41 | 0 18 | 23 38 | 3 18 | 23 38 | 0 2 | 21 41 | 1 15 | 20 57 | 0 41 | 3 39 | 1 59 | 0 8 | 13 32 | 4 7 | 4 37 | 23 23 | | | n.a. |
| T 14 | 15 50 | 14 35 | 2 0 | 14 41 | 1 20 | 22 33 | 0 21 | 23 44 | 3 17 | 23 38 | 0 1 | 21 42 | 1 15 | 20 58 | 0 41 | 3 39 | 1 59 | 0 9 | 13 32 | 4 7 | 4 36 | 23 25 | | | n.a. |
| W15 | 15 32 | 20 8 | 3 5 | 14 1 | 1 15 | 22 25 | 0 24 | 23 50 | 3 17 | 23 39 | 0 1 | 21 42 | 1 15 | 20 58 | 0 41 | 3 39 | 1 59 | 0 9 | 13 33 | 4 8 | 4 35 | 23 27 | | | n.a. |
| T 16 | 15 14 | 24 35 | 4 0 | 13 19 | 1 10 | 22 15 | 0 26 | 23 56 | 3 16 | 23 39 | 0 1 | 21 43 | 1 15 | 20 59 | 0 41 | 3 38 | 1 59 | 0 9 | 13 33 | 4 7 | 4 33 | 23 29 | | | n.a. |
| F 17 | 14 55 | 27 34 | 4 40 | 12 38 | 1 4 | 22 6 | 0 29 | 24 2 | 3 15 | 23 40 | 0 1 | 21 44 | 1 15 | 20 59 | 0 41 | 3 38 | 1 59 | 0 10 | 13 33 | 4 6 | 4 32 | 23 31 | | | n.a. |
| S 18 | 14 36 | 28 45 | 5 2 | 11 56 | 0 59 | 21 55 | 0 32 | 24 7 | 3 14 | 23 40 | 0 1 | 21 45 | 1 15 | 21 0 | 0 41 | 3 38 | 1 59 | 0 10 | 13 33 | 4 5 | 4 31 | 23 33 | | | n.a. |
| S 19 | 14 17 | 28 1 | 5 6 | 11 13 | 0 53 | 21 44 | 0 34 | 24 13 | 3 13 | 23 40 | 0 1 | 21 46 | 1 15 | 21 0 | 0 41 | 3 37 | 1 59 | 0 10 | 13 34 | 4 2 | 4 30 | 23 35 | | | n.a. |
| M20 | 13 58 | 25 30 | 4 52 | 10 31 | 0 47 | 21 32 | 0 37 | 24 19 | 3 12 | 23 40 | 0 1 | 21 47 | 1 15 | 21 1 | 0 41 | 3 37 | 2 0 | 0 10 | 13 34 | 3 59 | 4 28 | 23 38 | | | n.a. |
| T 21 | 13 38 | 21 29 | 4 20 | 9 48 | 0 40 | 21 20 | 0 39 | 24 24 | 3 11 | 23 41 | 0 1 | 21 48 | 1 15 | 21 1 | 0 41 | 3 36 | 2 0 | 0 11 | 13 34 | 3 56 | 4 27 | 23 40 | | | n.a. |
| W22 | 13 19 | 16 22 | 3 34 | 9 5 | 0 34 | 21 7 | 0 42 | 24 30 | 3 10 | 23 41 | 0 1 | 21 49 | 1 15 | 21 2 | 0 41 | 3 36 | 2 0 | 0 11 | 13 34 | 3 53 | 4 26 | 23 42 | | | n.a. |
| T 23 | 12 59 | 10 36 | 2 36 | 8 22 | 0 27 | 20 53 | 0 44 | 24 35 | 3 9 | 23 41 | 0 1 | 21 49 | 1 15 | 21 2 | 0 41 | 3 35 | 2 0 | 0 11 | 13 34 | 3 51 | 4 25 | 23 44 | | | n.a. |
| F 24 | 12 38 | 4 30 | 1 32 | 7 38 | 0 20 | 20 38 | 0 46 | 24 40 | 3 8 | 23 42 | 0 0 | 21 50 | 1 15 | 21 3 | 0 41 | 3 35 | 2 0 | 0 12 | 13 35 | 3 50 | 4 23 | 23 46 | | | n.a. |
| S 25 | 12 18 | 1s38 | 0 25 | 6 55 | 0 13 | 20 24 | 0 49 | 24 46 | 3 7 | 23 42 | 0 0 | 21 51 | 1 15 | 21 3 | 0 41 | 3 35 | 2 0 | 0 12 | 13 35 | 3 49 | 4 22 | 23 48 | | | n.a. |
| S 26 | 11 57 | 7 34 | 0s43 | 6 12 | 0 6 | 20 8 | 0 51 | 24 51 | 3 6 | 23 42 | 0 0 | 21 52 | 1 15 | 21 3 | 0 41 | 3 34 | 2 0 | 0 12 | 13 35 | 3 49 | 4 21 | 23 50 | | | n.a. |
| M27 | 11 36 | 13 7 | 1 47 | 5 29 | 0s 1 | 19 52 | 0 53 | 24 56 | 3 5 | 23 42 | 0 0 | 21 53 | 1 15 | 21 4 | 0 41 | 3 34 | 2 0 | 0 13 | 13 35 | 3 50 | 4 20 | 23 52 | | | n.a. |
| T 28 | 11 15 | 18 5 | 2 45 | 4 46 | 0 8 | 19 35 | 0 55 | 25 0 | 3 4 | 23 42 | 0n 0 | 21 53 | 1 15 | 21 4 | 0 41 | 3 33 | 2 0 | 0 13 | 13 36 | 3 50 | 4 18 | 23 55 | | | n.a. |
| W29 | 10 54 | 22 19 | 3 36 | 4 3 | 0 15 | 19 18 | 0 57 | 25 5 | 3 3 | 23 43 | 0 0 | 21 54 | 1 15 | 21 5 | 0 41 | 3 33 | 2 0 | 0 14 | 13 36 | 3 51 | 4 17 | 23 57 | | | n.a. |
| T 30 | 10 33 | 25 39 | 4 18 | 3 20 | 0 23 | 19 0 | 0 59 | 25 10 | 3 2 | 23 43 | 0 0 | 21 55 | 1 15 | 21 5 | 0 41 | 3 32 | 2 0 | 0 14 | 13 36 | 3 51 | 4 16 | 23 59 | | | n.a. |
| F 31 | 10n11 | 27s52 | 4s48 | 2n38 | 0s30 | 18n41 | 1n 1 | 25s14 | 3s 1 | 23n43 | 0n 0 | 21s55 | 1s15 | 21s 5 | 0s41 | 3n32 | 2s 0 | 0s14 | 13s36 | 3n51 | 4n15 | 24s 1 | | | n.a. |

Julian Day Number = 1685475.5, Delta T = 03h13m14s
Ecliptic obliquity = 23°42'34, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°25'26, Lahiri = - 5°18'26 Julian Calendar 1 Aug. 99 BCE == Greg. Calendar 30 July 099 BCE

The year -98 astronomical counting style corresponds to year 099 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 99 BCE
# geocentric

## SEPTEMBER 99 BCE (-98) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 22 27 36 | 4♍53'39 | 29♐13 | 23♍46 | 12♌ 4 | 10♐57 | 29♊35 | 28°R27 | 29°R46 | 13°R26 | 2°R42 | 9°R33 | 10♈33 | 29♏27 | n.a. | S 1 |
| S 2 | 22 31 32 | 5°52'45 | 11♑29 | 25°14 | 13°18 | 11°34 | 29°43 | 28♑24 | 29♑44 | 13♈25 | 2♉42 | 9♈29 | 10°30 | 29°34 | n.a. | S 2 |
| M 3 | 22 35 29 | 6°51'52 | 24° 1 | 26°40 | 14°32 | 12°11 | 29°52 | 28°21 | 29°42 | 13°23 | 2°41 | 9°24 | 10°27 | 29°40 | n.a. | M 3 |
| T 4 | 22 39 26 | 7°51'02 | 6♒52 | 28° 6 | 15°46 | 12°48 | 0♋ 0 | 28°18 | 29°41 | 13°22 | 2°41 | 9°19 | 10°23 | 29°47 | n.a. | T 4 |
| W 5 | 22 43 22 | 8°50'13 | 20° 2 | 29°31 | 17° 1 | 13°25 | 0° 9 | 28°15 | 29°39 | 13°21 | 2°40 | 9°14 | 10°20 | 29°54 | n.a. | W 5 |
| T 6 | 22 47 19 | 9°49'26 | 3♓30 | 0♎55 | 18°15 | 14° 3 | 0°17 | 28°12 | 29°37 | 13°19 | 2°39 | 9° 9 | 10°17 | 0♐ 1 | n.a. | T 6 |
| F 7 | 22 51 15 | 10°48'42 | 17°16 | 2°17 | 19°29 | 14°40 | 0°25 | 28° 9 | 29°36 | 13°18 | 2°39 | 9° 7 | 10°14 | 0° 7 | n.a. | F 7 |
| S 8 | 22 55 12 | 11°47'59 | 1♈15 | 3°39 | 20°44 | 15°18 | 0°33 | 28° 7 | 29°34 | 13°17 | 2°38 | 9° 5 | 10°11 | 0°14 | n.a. | S 8 |
| S 9 | 22 59 8 | 12°47'19 | 15°25 | 5° 0 | 21°58 | 15°56 | 0°41 | 28° 4 | 29°33 | 13°15 | 2°38 | 9°D 5 | 10° 8 | 0°21 | n.a. | S 9 |
| M10 | 23 3 5 | 13°46'41 | 29°40 | 6°19 | 23°13 | 16°34 | 0°49 | 28° 2 | 29°31 | 13°14 | 2°37 | 9° 6 | 10° 4 | 0°27 | n.a. | M10 |
| T 11 | 23 7 1 | 14°46'06 | 13♉58 | 7°37 | 24°27 | 17°12 | 0°56 | 27°59 | 29°30 | 13°12 | 2°36 | 9° 7 | 10° 1 | 0°34 | n.a. | T 11 |
| W12 | 23 10 58 | 15°45'33 | 28°15 | 8°54 | 25°42 | 17°51 | 1° 4 | 27°57 | 29°28 | 13°11 | 2°35 | 9° 9 | 9°58 | 0°41 | n.a. | W12 |
| T 13 | 23 14 54 | 16°45'03 | 12♊29 | 10°10 | 26°56 | 18°29 | 1°11 | 27°55 | 29°27 | 13°10 | 2°35 | 9°R 9 | 9°55 | 0°47 | n.a. | T 13 |
| F 14 | 23 18 51 | 17°44'35 | 26°36 | 11°24 | 28°11 | 19° 8 | 1°18 | 27°53 | 29°25 | 13° 8 | 2°34 | 9° 9 | 9°52 | 0°54 | n.a. | F 14 |
| S 15 | 23 22 48 | 18°44'09 | 10♋37 | 12°36 | 29°26 | 19°47 | 1°25 | 27°51 | 29°24 | 13° 7 | 2°33 | 9° 8 | 9°48 | 1° 1 | n.a. | S 15 |
| S 16 | 23 26 44 | 19°43'46 | 24°28 | 13°47 | 0♍40 | 20°26 | 1°32 | 27°49 | 29°23 | 13° 5 | 2°32 | 9° 6 | 9°45 | 1° 7 | n.a. | S 16 |
| M17 | 23 30 41 | 20°43'25 | 8♌ 8 | 14°56 | 1°55 | 21° 5 | 1°39 | 27°47 | 29°22 | 13° 3 | 2°32 | 9° 4 | 9°42 | 1°14 | n.a. | M17 |
| T 18 | 23 34 37 | 21°43'06 | 21°37 | 16° 3 | 3°10 | 21°45 | 1°45 | 27°45 | 29°20 | 13° 2 | 2°31 | 9° 1 | 9°39 | 1°21 | n.a. | T 18 |
| W19 | 23 38 34 | 22°42'50 | 4♍51 | 17° 7 | 4°25 | 22°24 | 1°52 | 27°43 | 29°19 | 13° 0 | 2°30 | 8°59 | 9°36 | 1°28 | n.a. | W19 |
| T 20 | 23 42 30 | 23°42'36 | 17°52 | 18°10 | 5°40 | 23° 4 | 1°58 | 27°42 | 29°18 | 12°59 | 2°29 | 8°57 | 9°33 | 1°34 | n.a. | T 20 |
| F 21 | 23 46 27 | 24°42'24 | 0♎37 | 19° 9 | 6°55 | 23°44 | 2° 4 | 27°40 | 29°17 | 12°57 | 2°28 | 8°56 | 9°29 | 1°41 | n.a. | F 21 |
| S 22 | 23 50 23 | 25°42'13 | 13° 8 | 20° 6 | 8°10 | 24°24 | 2°10 | 27°39 | 29°16 | 12°56 | 2°27 | 8°D56 | 9°26 | 1°48 | n.a. | S 22 |
| S 23 | 23 54 20 | 26°42'05 | 25°25 | 21° 0 | 9°25 | 25° 4 | 2°16 | 27°38 | 29°15 | 12°54 | 2°27 | 8°56 | 9°23 | 1°54 | n.a. | S 23 |
| M24 | 23 58 17 | 27°41'59 | 7♏31 | 21°50 | 10°40 | 25°44 | 2°21 | 27°36 | 29°14 | 12°52 | 2°26 | 8°57 | 9°20 | 2° 1 | n.a. | M24 |
| T 25 | 0 2 13 | 28°41'55 | 19°28 | 22°36 | 11°55 | 26°24 | 2°27 | 27°35 | 29°13 | 12°51 | 2°25 | 8°59 | 9°17 | 2° 8 | n.a. | T 25 |
| W26 | 0 6 10 | 29°41'52 | 1♐20 | 23°18 | 13°10 | 27° 5 | 2°32 | 27°34 | 29°12 | 12°49 | 2°24 | 9° 0 | 9°13 | 2°14 | n.a. | W26 |
| T 27 | 0 10 6 | 0♎41'52 | 13°10 | 23°55 | 14°25 | 27°45 | 2°37 | 27°34 | 29°12 | 12°48 | 2°23 | 9° 0 | 9°10 | 2°21 | n.a. | T 27 |
| F 28 | 0 14 3 | 1°41'53 | 25° 3 | 24°26 | 15°40 | 28°26 | 2°42 | 27°33 | 29°11 | 12°46 | 2°22 | 9° 1 | 9° 7 | 2°28 | n.a. | F 28 |
| S 29 | 0 17 59 | 2°41'56 | 7♑ 5 | 24°52 | 16°55 | 29° 7 | 2°47 | 27°32 | 29°10 | 12°44 | 2°21 | 9°R 1 | 9° 4 | 2°34 | n.a. | S 29 |
| S 30 | 0 21 56 | 3♎42'00 | 19♑19 | 25♎12 | 18♍10 | 29♐48 | 2♋52 | 27♑32 | 29♑10 | 12♈43 | 2♉20 | 9♈ 0 | 9♈ 1 | 2♐41 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| S 1 | 9n49 | 28s49 | 5s 7 | 1n56 | 0s38 | 18n22 | 1n 3 | 25s18 | 3s 0 | 23n43 | 0n 1 | 21s56 | 1s15 | 21s 6 | 0s41 | 3n31 | 2s 0 | 0s15 | 13s36 | 3n50 | 4n13 | 24s 3 | | n.a. | |
| S 2 | 9 27 | 28 23 | 5 12 | 1 14 | 0 45 | 18 3 | 1 5 | 25 23 | 2 59 | 23 43 | 0 1 | 21 57 | 1 15 | 21 6 | 0 41 | 3 31 | 2 0 | 0 15 | 13 37 | 3 48 | 4 12 | 24 5 | | n.a. | |
| M 3 | 9 5 | 26 30 | 5 2 | 0 32 | 0 52 | 17 43 | 1 7 | 25 27 | 2 58 | 23 43 | 0 1 | 21 57 | 1 15 | 21 7 | 0 41 | 3 30 | 2 0 | 0 15 | 13 37 | 3 46 | 4 11 | 24 7 | | n.a. | |
| T 4 | 8 43 | 23 13 | 4 37 | 0s 9 | 1 0 | 17 22 | 1 8 | 25 31 | 2 57 | 23 43 | 0 1 | 21 58 | 1 15 | 21 7 | 0 41 | 3 29 | 2 0 | 0 16 | 13 37 | 3 44 | 4 10 | 24 9 | | n.a. | |
| W 5 | 8 21 | 18 42 | 3 57 | 0 50 | 1 7 | 17 1 | 1 10 | 25 34 | 2 56 | 23 44 | 0 1 | 21 59 | 1 15 | 21 7 | 0 41 | 3 29 | 2 0 | 0 16 | 13 37 | 3 42 | 4 8 | 24 11 | | n.a. | |
| T 6 | 7 58 | 13 10 | 3 3 | 1 30 | 1 15 | 16 40 | 1 11 | 25 38 | 2 54 | 23 44 | 0 1 | 21 59 | 1 15 | 21 8 | 0 41 | 3 28 | 2 0 | 0 17 | 13 38 | 3 40 | 4 7 | 24 13 | | n.a. | |
| F 7 | 7 36 | 6 52 | 1 57 | 2 10 | 1 22 | 16 18 | 1 13 | 25 41 | 2 53 | 23 44 | 0 1 | 22 0 | 1 15 | 21 8 | 0 41 | 3 28 | 2 0 | 0 17 | 13 38 | 3 39 | 4 6 | 24 15 | | n.a. | |
| S 8 | 7 13 | 0 9 | 0 43 | 2 50 | 1 29 | 15 55 | 1 14 | 25 44 | 2 52 | 23 44 | 0 1 | 22 0 | 1 15 | 21 8 | 0 41 | 3 27 | 2 0 | 0 17 | 13 38 | 3 38 | 4 4 | 24 17 | | n.a. | |
| S 9 | 6 50 | 6n40 | 0n35 | 3 29 | 1 36 | 15 32 | 1 16 | 25 48 | 2 51 | 23 44 | 0 1 | 22 1 | 1 15 | 21 9 | 0 41 | 3 27 | 2 0 | 0 18 | 13 38 | 3 38 | 4 3 | 24 19 | | n.a. | |
| M10 | 6 27 | 13 12 | 1 51 | 4 7 | 1 43 | 15 9 | 1 17 | 25 50 | 2 50 | 23 44 | 0 2 | 22 1 | 1 15 | 21 9 | 0 41 | 3 26 | 2 0 | 0 18 | 13 38 | 3 39 | 4 2 | 24 21 | | n.a. | |
| T 11 | 6 4 | 19 4 | 3 0 | 4 45 | 1 50 | 14 45 | 1 18 | 25 53 | 2 49 | 23 44 | 0 2 | 22 2 | 1 15 | 21 9 | 0 41 | 3 25 | 2 1 | 0 19 | 13 38 | 3 39 | 4 1 | 24 23 | | n.a. | |
| W12 | 5 41 | 23 52 | 3 58 | 5 22 | 1 57 | 14 21 | 1 20 | 25 56 | 2 48 | 23 44 | 0 2 | 22 2 | 1 15 | 21 9 | 0 41 | 3 25 | 2 1 | 0 19 | 13 39 | 3 40 | 3 59 | 24 25 | | n.a. | |
| T 13 | 5 17 | 27 12 | 4 42 | 5 58 | 2 4 | 13 56 | 1 21 | 25 58 | 2 47 | 23 44 | 0 2 | 22 3 | 1 15 | 21 10 | 0 41 | 3 24 | 2 1 | 0 19 | 13 39 | 3 40 | 3 58 | 24 27 | | n.a. | |
| F 14 | 4 54 | 28 47 | 5 7 | 6 33 | 2 10 | 13 31 | 1 22 | 26 0 | 2 45 | 23 44 | 0 2 | 22 3 | 1 15 | 21 10 | 0 41 | 3 24 | 2 1 | 0 20 | 13 39 | 3 40 | 3 57 | 24 29 | | n.a. | |
| S 15 | 4 30 | 28 31 | 5 15 | 7 8 | 2 17 | 13 6 | 1 23 | 26 2 | 2 44 | 23 44 | 0 2 | 22 3 | 1 15 | 21 10 | 0 41 | 3 23 | 2 1 | 0 20 | 13 39 | 3 40 | 3 56 | 24 31 | | n.a. | |
| S 16 | 4 7 | 26 27 | 5 4 | 7 41 | 2 23 | 12 40 | 1 24 | 26 4 | 2 43 | 23 44 | 0 2 | 22 4 | 1 15 | 21 10 | 0 41 | 3 22 | 2 1 | 0 21 | 13 39 | 3 39 | 3 54 | 24 33 | | n.a. | |
| M17 | 3 43 | 22 52 | 4 36 | 8 14 | 2 29 | 12 14 | 1 25 | 26 6 | 2 42 | 23 44 | 0 2 | 22 4 | 1 15 | 21 11 | 0 41 | 3 22 | 2 1 | 0 21 | 13 40 | 3 38 | 3 53 | 24 35 | | n.a. | |
| T 18 | 3 19 | 18 7 | 3 52 | 8 45 | 2 34 | 11 47 | 1 25 | 26 7 | 2 41 | 23 44 | 0 3 | 22 4 | 1 15 | 21 11 | 0 41 | 3 21 | 2 1 | 0 21 | 13 40 | 3 37 | 3 52 | 24 37 | | n.a. | |
| W19 | 2 55 | 12 35 | 2 57 | 9 15 | 2 39 | 11 20 | 1 26 | 26 9 | 2 39 | 23 44 | 0 3 | 22 5 | 1 15 | 21 11 | 0 41 | 3 20 | 2 1 | 0 22 | 13 40 | 3 36 | 3 51 | 24 39 | | n.a. | |
| T 20 | 2 32 | 6 36 | 1 54 | 9 44 | 2 44 | 10 53 | 1 27 | 26 10 | 2 38 | 23 45 | 0 3 | 22 5 | 1 15 | 21 11 | 0 41 | 3 20 | 2 1 | 0 22 | 13 40 | 3 35 | 3 49 | 24 41 | | n.a. | |
| F 21 | 2 8 | 0 27 | 0 46 | 10 11 | 2 49 | 10 25 | 1 27 | 26 10 | 2 37 | 23 45 | 0 3 | 22 5 | 1 15 | 21 12 | 0 41 | 3 19 | 2 1 | 0 23 | 13 40 | 3 35 | 3 48 | 24 43 | | n.a. | |
| S 22 | 1 44 | 5s36 | 0s23 | 10 36 | 2 53 | 9 58 | 1 28 | 26 11 | 2 36 | 23 45 | 0 3 | 22 5 | 1 15 | 21 12 | 0 41 | 3 19 | 2 1 | 0 23 | 13 40 | 3 35 | 3 47 | 24 45 | | n.a. | |
| S 23 | 1 20 | 11 20 | 1 30 | 11 0 | 2 57 | 9 29 | 1 28 | 26 12 | 2 35 | 23 45 | 0 3 | 22 6 | 1 15 | 21 12 | 0 41 | 3 18 | 2 1 | 0 24 | 13 40 | 3 35 | 3 46 | 24 47 | | n.a. | |
| M24 | 0 55 | 16 34 | 2 32 | 11 22 | 3 0 | 9 1 | 1 29 | 26 12 | 2 33 | 23 45 | 0 3 | 22 6 | 1 15 | 21 12 | 0 41 | 3 17 | 2 1 | 0 24 | 13 41 | 3 35 | 3 44 | 24 49 | | n.a. | |
| T 25 | 0 31 | 21 6 | 3 26 | 11 42 | 3 2 | 8 32 | 1 29 | 26 12 | 2 32 | 23 45 | 0 3 | 22 6 | 1 15 | 21 12 | 0 40 | 3 17 | 2 1 | 0 24 | 13 41 | 3 36 | 3 43 | 24 50 | | n.a. | |
| W26 | 0 7 | 24 45 | 4 11 | 11 59 | 3 4 | 8 4 | 1 29 | 26 12 | 2 31 | 23 45 | 0 4 | 22 6 | 1 15 | 21 12 | 0 40 | 3 16 | 2 1 | 0 25 | 13 41 | 3 36 | 3 42 | 24 52 | | n.a. | |
| T 27 | 0s17 | 27 21 | 4 46 | 12 14 | 3 5 | 7 35 | 1 29 | 26 11 | 2 30 | 23 45 | 0 4 | 22 6 | 1 15 | 21 13 | 0 40 | 3 15 | 2 1 | 0 25 | 13 41 | 3 37 | 3 40 | 24 54 | | n.a. | |
| F 28 | 0 41 | 28 45 | 5 8 | 12 26 | 3 5 | 7 5 | 1 30 | 26 11 | 2 29 | 23 45 | 0 4 | 22 6 | 1 15 | 21 13 | 0 40 | 3 15 | 2 1 | 0 26 | 13 41 | 3 37 | 3 39 | 24 56 | | n.a. | |
| S 29 | 1 5 | 28 48 | 5 17 | 12 35 | 3 4 | 6 36 | 1 30 | 26 10 | 2 27 | 23 45 | 0 4 | 22 7 | 1 15 | 21 13 | 0 40 | 3 14 | 2 1 | 0 26 | 13 41 | 3 37 | 3 38 | 24 58 | | n.a. | |
| S 30 | 1s29 | 27s27 | 5s12 | 12s41 | 3s 2 | 6n 6 | 1n30 | 26s 9 | 2s26 | 23n45 | 0n 4 | 22s 7 | 1s15 | 21s13 | 0s40 | 3n13 | 2s 1 | 0s27 | 13s41 | 3n37 | 3n37 | 25s 0 | | n.a. | |

Julian Day Number = 1685506.5, Delta T = 03h13m13s
Ecliptic obliquity = 23°42'34, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°25'22, Lahiri = - 5°18'22 Julian Calendar 1 Sept. 99 BCE == Greg. Calendar 30 Aug. 099 BCE


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# ASTRODIENST EPHEMERIS for the year 99 BCE
# geocentric

## OCTOBER 99 BCE (-98) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 0 25 52 | 4♎42'07 | 1♒49 | 25♎24 | 19♍25 | 0♏29 | 2♋56 | 27°R31 | 29°R 9 | 12°R41 | 2°R19 | 9°R 0 | 8♈58 | 2♐48 | n.a. | M 1 |
| T 2 | 0 29 49 | 5°42'15 | 14°41 | 25°R28 | 20°41 | 1°10 | 3° 0 | 27♏31 | 29♏ 9 | 12♈39 | 2♉18 | 9♈ 0 | 8°54 | 2°55 | n.a. | T 2 |
| W 3 | 0 33 46 | 6°42'24 | 27°55 | 25°25 | 21°56 | 1°51 | 3° 4 | 27°30 | 29° 8 | 12°38 | 2°17 | 8°59 | 8°51 | 3° 1 | n.a. | W 3 |
| T 4 | 0 37 42 | 7°42'35 | 11♓33 | 25°12 | 23°11 | 2°32 | 3° 8 | 27°30 | 29° 8 | 12°36 | 2°16 | 8°59 | 8°48 | 3° 8 | n.a. | T 4 |
| F 5 | 0 41 39 | 8°42'48 | 25°35 | 24°50 | 24°26 | 3°14 | 3°12 | 27°D30 | 29° 7 | 12°34 | 2°15 | 8°D59 | 8°45 | 3°15 | n.a. | F 5 |
| S 6 | 0 45 35 | 9°43'03 | 9♈56 | 24°19 | 25°42 | 3°55 | 3°16 | 27°30 | 29° 7 | 12°32 | 2°14 | 8°R59 | 8°42 | 3°21 | n.a. | S 6 |
| S 7 | 0 49 32 | 10°43'20 | 24°32 | 23°37 | 26°57 | 4°37 | 3°19 | 27°31 | 29° 7 | 12°31 | 2°13 | 8°59 | 8°39 | 3°28 | n.a. | S 7 |
| M 8 | 0 53 28 | 11°43'38 | 9♉16 | 22°47 | 28°12 | 5°18 | 3°22 | 27°31 | 29° 6 | 12°29 | 2°12 | 8°59 | 8°35 | 3°35 | n.a. | M 8 |
| T 9 | 0 57 25 | 12°43'59 | 24° 2 | 21°47 | 29°28 | 6° 0 | 3°25 | 27°31 | 29° 6 | 12°27 | 2°11 | 8°58 | 8°32 | 3°41 | n.a. | T 9 |
| W10 | 1 1 21 | 13°44'21 | 8♊42 | 20°40 | 0♎43 | 6°42 | 3°28 | 27°32 | 29° 6 | 12°26 | 2°10 | 8°58 | 8°29 | 3°48 | n.a. | W10 |
| T 11 | 1 5 18 | 14°44'46 | 23°11 | 19°26 | 1°58 | 7°23 | 3°31 | 27°32 | 29° 6 | 12°24 | 2° 9 | 8°58 | 8°26 | 3°55 | n.a. | T 11 |
| F 12 | 1 9 15 | 15°45'13 | 7♋25 | 18° 8 | 3°14 | 8° 5 | 3°33 | 27°33 | 29°D 6 | 12°22 | 2° 8 | 8°57 | 8°23 | 4° 2 | n.a. | F 12 |
| S 13 | 1 13 11 | 16°45'42 | 21°22 | 16°48 | 4°29 | 8°47 | 3°36 | 27°34 | 29° 6 | 12°21 | 2° 6 | 8°D57 | 8°19 | 4° 8 | n.a. | S 13 |
| S 14 | 1 17 8 | 17°46'13 | 5♌ 1 | 15°29 | 5°45 | 9°29 | 3°38 | 27°35 | 29° 6 | 12°19 | 2° 5 | 8°57 | 8°16 | 4°15 | n.a. | S 14 |
| M15 | 1 21 4 | 18°46'45 | 18°23 | 14°13 | 7° 0 | 10°12 | 3°39 | 27°36 | 29° 6 | 12°17 | 2° 4 | 8°58 | 8°13 | 4°22 | n.a. | M15 |
| T 16 | 1 25 1 | 19°47'20 | 1♍29 | 13° 2 | 8°16 | 10°54 | 3°41 | 27°37 | 29° 6 | 12°16 | 2° 3 | 8°59 | 8°10 | 4°28 | n.a. | T 16 |
| W17 | 1 28 57 | 20°47'56 | 14°21 | 11°59 | 9°31 | 11°36 | 3°43 | 27°38 | 29° 7 | 12°14 | 2° 2 | 9° 0 | 8° 7 | 4°35 | n.a. | W17 |
| T 18 | 1 32 54 | 21°48'35 | 26°59 | 11° 6 | 10°47 | 12°18 | 3°44 | 27°39 | 29° 7 | 12°12 | 2° 1 | 9° 1 | 8° 4 | 4°42 | n.a. | T 18 |
| F 19 | 1 36 50 | 22°49'14 | 9♎25 | 10°23 | 12° 2 | 13° 1 | 3°45 | 27°41 | 29° 7 | 12°11 | 2° 0 | 9°R 1 | 8° 0 | 4°48 | n.a. | F 19 |
| S 20 | 1 40 47 | 23°49'56 | 21°42 | 9°52 | 13°18 | 13°43 | 3°46 | 27°42 | 29° 7 | 12° 9 | 1°59 | 9° 1 | 7°57 | 4°55 | n.a. | S 20 |
| S 21 | 1 44 44 | 24°50'39 | 3♏49 | 9°33 | 14°33 | 14°26 | 3°47 | 27°44 | 29° 8 | 12° 7 | 1°58 | 9° 0 | 7°54 | 5° 2 | n.a. | S 21 |
| M22 | 1 48 40 | 25°51'23 | 15°48 | 9°D25 | 15°49 | 15° 8 | 3°47 | 27°46 | 29° 8 | 12° 6 | 1°56 | 8°58 | 7°51 | 5° 9 | n.a. | M22 |
| T 23 | 1 52 37 | 26°52'09 | 27°43 | 9°29 | 17° 4 | 15°51 | 3°48 | 27°48 | 29° 9 | 12° 4 | 1°55 | 8°55 | 7°48 | 5°15 | n.a. | T 23 |
| W24 | 1 56 33 | 27°52'56 | 9♐33 | 9°42 | 18°20 | 16°33 | 3°R48 | 27°49 | 29°10 | 12° 2 | 1°54 | 8°51 | 7°45 | 5°22 | n.a. | W24 |
| T 25 | 2 0 30 | 28°53'45 | 21°23 | 10° 6 | 19°35 | 17°16 | 3°48 | 27°51 | 29°10 | 12° 1 | 1°53 | 8°48 | 7°41 | 5°29 | n.a. | T 25 |
| F 26 | 2 4 26 | 29°54'35 | 3♑16 | 10°38 | 20°51 | 17°59 | 3°47 | 27°54 | 29°11 | 11°59 | 1°52 | 8°45 | 7°38 | 5°35 | n.a. | F 26 |
| S 27 | 2 8 23 | 0♏55'26 | 15°15 | 11°18 | 22° 7 | 18°42 | 3°47 | 27°56 | 29°12 | 11°58 | 1°51 | 8°43 | 7°35 | 5°42 | n.a. | S 27 |
| S 28 | 2 12 19 | 1°56'17 | 27°25 | 12° 5 | 23°22 | 19°24 | 3°46 | 27°58 | 29°12 | 11°56 | 1°50 | 8°D42 | 7°32 | 5°49 | n.a. | S 28 |
| M29 | 2 16 16 | 2°57'10 | 9♒50 | 12°59 | 24°38 | 20° 7 | 3°45 | 28° 1 | 29°13 | 11°54 | 1°49 | 8°43 | 7°29 | 5°55 | n.a. | M29 |
| T 30 | 2 20 13 | 3°58'04 | 22°35 | 13°57 | 25°53 | 20°50 | 3°44 | 28° 3 | 29°14 | 11°53 | 1°47 | 8°44 | 7°25 | 6° 2 | n.a. | T 30 |
| W31 | 2 24 9 | 4♏58'59 | 5♓43 | 15♎ 1 | 27♎ 9 | 21♏33 | 3♋43 | 28♏ 6 | 29♏15 | 11♈51 | 1♉46 | 8♈45 | 7♈22 | 6♐ 9 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| M 1 | 1s53 | 24s43 | 4s52 | 12s42 | 2s59 | 5n36 | 1n29 | 26s 7 | 2s25 | 23n45 | 0n 4 | 22s 7 | 1s15 | 21s13 | 0s40 | 3n13 | 2s 1 | 0s27 | 13s41 | 3n36 | 3n35 | 25s 2 | | | n.a. |
| T 2 | 2 17 | 20 43 | 4 18 | 12 40 | 2 55 | 5 6 | 1 29 | 26 6 | 2 24 | 23 45 | 0 4 | 22 7 | 1 15 | 21 13 | 0 40 | 3 12 | 2 1 | 0 27 | 13 42 | 3 36 | 3 34 | 25 4 | | | n.a. |
| W 3 | 2 42 | 15 35 | 3 29 | 12 33 | 2 49 | 4 36 | 1 29 | 26 4 | 2 22 | 23 45 | 0 5 | 22 7 | 1 15 | 21 13 | 0 40 | 3 11 | 2 1 | 0 28 | 13 42 | 3 36 | 3 33 | 25 5 | | | n.a. |
| T 4 | 3 6 | 9 34 | 2 26 | 12 22 | 2 42 | 4 5 | 1 29 | 26 2 | 2 21 | 23 45 | 0 5 | 22 7 | 1 15 | 21 13 | 0 40 | 3 11 | 2 1 | 0 28 | 13 42 | 3 36 | 3 32 | 25 7 | | | n.a. |
| F 5 | 3 30 | 2 54 | 1 14 | 12 6 | 2 33 | 3 35 | 1 28 | 26 0 | 2 20 | 23 45 | 0 5 | 22 7 | 1 14 | 21 13 | 0 40 | 3 10 | 2 1 | 0 29 | 13 42 | 3 36 | 3 30 | 25 9 | | | n.a. |
| S 6 | 3 54 | 4n 3 | 0n 5 | 11 44 | 2 23 | 3 4 | 1 28 | 25 58 | 2 19 | 23 45 | 0 5 | 22 7 | 1 14 | 21 13 | 0 40 | 3 9 | 2 1 | 0 29 | 13 42 | 3 36 | 3 29 | 25 11 | | | n.a. |
| S 7 | 4 17 | 10 56 | 1 25 | 11 17 | 2 10 | 2 34 | 1 27 | 25 55 | 2 17 | 23 45 | 0 5 | 22 7 | 1 14 | 21 13 | 0 40 | 3 9 | 2 1 | 0 29 | 13 42 | 3 36 | 3 28 | 25 13 | | | n.a. |
| M 8 | 4 41 | 17 16 | 2 40 | 10 45 | 1 56 | 2 3 | 1 27 | 25 52 | 2 16 | 23 45 | 0 5 | 22 6 | 1 14 | 21 13 | 0 40 | 3 8 | 2 1 | 0 30 | 13 42 | 3 36 | 3 27 | 25 15 | | | n.a. |
| T 9 | 5 5 | 22 37 | 3 45 | 10 8 | 1 40 | 1 32 | 1 26 | 25 49 | 2 15 | 23 45 | 0 5 | 22 6 | 1 14 | 21 13 | 0 40 | 3 7 | 2 1 | 0 30 | 13 42 | 3 36 | 3 25 | 25 16 | | | n.a. |
| W10 | 5 29 | 26 31 | 4 34 | 9 26 | 1 23 | 1 1 | 1 26 | 25 46 | 2 14 | 23 45 | 0 6 | 22 6 | 1 14 | 21 13 | 0 40 | 3 7 | 2 1 | 0 31 | 13 42 | 3 36 | 3 24 | 25 18 | | | n.a. |
| T 11 | 5 52 | 28 37 | 5 5 | 8 40 | 1 4 | 0 30 | 1 25 | 25 42 | 2 12 | 23 45 | 0 6 | 22 6 | 1 14 | 21 13 | 0 40 | 3 6 | 2 1 | 0 31 | 13 42 | 3 35 | 3 23 | 25 20 | | | n.a. |
| F 12 | 6 16 | 28 46 | 5 17 | 7 52 | 0 44 | 0s 1 | 1 24 | 25 38 | 2 11 | 23 46 | 0 6 | 22 6 | 1 14 | 21 13 | 0 40 | 3 5 | 2 1 | 0 32 | 13 42 | 3 35 | 3 22 | 25 22 | | | n.a. |
| S 13 | 6 40 | 27 5 | 5 10 | 7 2 | 0 23 | 0 32 | 1 23 | 25 34 | 2 10 | 23 46 | 0 6 | 22 6 | 1 14 | 21 13 | 0 40 | 3 5 | 2 1 | 0 32 | 13 42 | 3 35 | 3 20 | 25 24 | | | n.a. |
| S 14 | 7 3 | 23 50 | 4 45 | 6 12 | 0 3 | 1 3 | 1 22 | 25 30 | 2 9 | 23 46 | 0 6 | 22 5 | 1 14 | 21 13 | 0 40 | 3 4 | 2 1 | 0 32 | 13 42 | 3 35 | 3 19 | 25 25 | | | n.a. |
| M15 | 7 26 | 19 22 | 4 5 | 5 23 | 0n18 | 1 34 | 1 21 | 25 26 | 2 7 | 23 46 | 0 6 | 22 5 | 1 14 | 21 13 | 0 40 | 3 3 | 2 1 | 0 33 | 13 42 | 3 36 | 3 18 | 25 27 | | | n.a. |
| T 16 | 7 49 | 14 4 | 3 13 | 4 38 | 0 38 | 2 5 | 1 20 | 25 21 | 2 6 | 23 46 | 0 6 | 22 5 | 1 14 | 21 13 | 0 40 | 3 3 | 2 1 | 0 33 | 13 42 | 3 36 | 3 16 | 25 29 | | | n.a. |
| W17 | 8 13 | 8 16 | 2 12 | 3 56 | 0 56 | 2 36 | 1 19 | 25 16 | 2 5 | 23 46 | 0 7 | 22 5 | 1 14 | 21 13 | 0 40 | 3 2 | 2 1 | 0 34 | 13 42 | 3 36 | 3 15 | 25 31 | | | n.a. |
| T 18 | 8 35 | 2 13 | 1 6 | 3 19 | 1 13 | 3 7 | 1 18 | 25 11 | 2 4 | 23 46 | 0 7 | 22 4 | 1 14 | 21 13 | 0 40 | 3 1 | 2 1 | 0 34 | 13 42 | 3 37 | 3 14 | 25 32 | | | n.a. |
| F 19 | 8 58 | 3s49 | 0s 2 | 2 48 | 1 28 | 3 38 | 1 16 | 25 6 | 2 2 | 23 46 | 0 7 | 22 4 | 1 14 | 21 13 | 0 40 | 3 1 | 2 1 | 0 34 | 13 43 | 3 37 | 3 13 | 25 34 | | | n.a. |
| S 20 | 9 21 | 9 37 | 1 10 | 2 24 | 1 42 | 4 9 | 1 15 | 25 0 | 2 1 | 23 46 | 0 7 | 22 4 | 1 14 | 21 13 | 0 40 | 3 0 | 2 1 | 0 35 | 13 43 | 3 37 | 3 11 | 25 36 | | | n.a. |
| S 21 | 9 44 | 15 0 | 2 13 | 2 5 | 1 53 | 4 40 | 1 14 | 24 54 | 2 0 | 23 47 | 0 7 | 22 3 | 1 14 | 21 13 | 0 40 | 2 59 | 2 1 | 0 35 | 13 43 | 3 36 | 3 10 | 25 38 | | | n.a. |
| M22 | 10 6 | 19 46 | 3 9 | 1 53 | 2 3 | 5 11 | 1 12 | 24 48 | 1 59 | 23 47 | 0 7 | 22 3 | 1 14 | 21 12 | 0 40 | 2 59 | 2 1 | 0 35 | 13 43 | 3 35 | 3 9 | 25 39 | | | n.a. |
| T 23 | 10 28 | 23 43 | 3 57 | 1 48 | 2 11 | 5 41 | 1 11 | 24 42 | 1 57 | 23 47 | 0 8 | 22 2 | 1 14 | 21 12 | 0 40 | 2 58 | 2 1 | 0 36 | 13 43 | 3 34 | 3 8 | 25 41 | | | n.a. |
| W24 | 10 50 | 26 39 | 4 35 | 1 48 | 2 17 | 6 12 | 1 9 | 24 35 | 1 56 | 23 47 | 0 8 | 22 2 | 1 14 | 21 12 | 0 40 | 2 58 | 2 1 | 0 36 | 13 43 | 3 33 | 3 6 | 25 43 | | | n.a. |
| T 25 | 11 12 | 28 25 | 5 0 | 1 53 | 2 21 | 6 42 | 1 8 | 24 29 | 1 55 | 23 47 | 0 8 | 22 1 | 1 13 | 21 12 | 0 40 | 2 57 | 2 1 | 0 37 | 13 43 | 3 32 | 3 5 | 25 45 | | | n.a. |
| F 26 | 11 34 | 28 53 | 5 13 | 2 3 | 2 24 | 7 12 | 1 6 | 24 22 | 1 53 | 23 47 | 0 8 | 22 1 | 1 13 | 21 12 | 0 40 | 2 56 | 2 1 | 0 37 | 13 43 | 3 31 | 3 4 | 25 46 | | | n.a. |
| S 27 | 11 56 | 28 0 | 5 13 | 2 17 | 2 26 | 7 42 | 1 5 | 24 14 | 1 52 | 23 47 | 0 8 | 22 0 | 1 13 | 21 12 | 0 40 | 2 56 | 2 1 | 0 37 | 13 42 | 3 30 | 3 3 | 25 48 | | | n.a. |
| S 28 | 12 17 | 25 47 | 4 58 | 2 35 | 2 26 | 8 12 | 1 3 | 24 7 | 1 51 | 23 48 | 0 8 | 22 0 | 1 13 | 21 11 | 0 40 | 2 55 | 2 1 | 0 38 | 13 42 | 3 29 | 3 1 | 25 50 | | | n.a. |
| M29 | 12 38 | 22 18 | 4 30 | 2 57 | 2 26 | 8 42 | 1 1 | 23 59 | 1 50 | 23 48 | 0 8 | 21 59 | 1 13 | 21 11 | 0 39 | 2 55 | 2 1 | 0 38 | 13 42 | 3 29 | 3 0 | 25 51 | | | n.a. |
| T 30 | 12 59 | 17 43 | 3 47 | 3 21 | 2 24 | 9 11 | 0 59 | 23 52 | 1 48 | 23 48 | 0 9 | 21 59 | 1 13 | 21 11 | 0 39 | 2 54 | 2 1 | 0 38 | 13 42 | 3 30 | 2 59 | 25 53 | | | n.a. |
| W31 | 13s20 | 12s10 | 2s52 | 3s48 | 2n22 | 9s41 | 0n58 | 23s44 | 1s47 | 23n48 | 0n 9 | 21s58 | 1s13 | 21s11 | 0s39 | 2n53 | 2s 1 | 0s39 | 13s42 | 3n30 | 2n57 | 25s55 | | | n.a. |

Julian Day Number = 1685536.5, Delta T = 03h13m12s
Ecliptic obliquity = 23°42'35, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°25'18, Lahiri = - 5°18'18 Julian Calendar 1 Oct. 99 BCE == Greg. Calendar 29 Sept. 099 BCE


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# ASTRODIENST EPHEMERIS for the year 99 BCE
# geocentric

## NOVEMBER 99 BCE (-98) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 2 28 6 | 5♏59'54 | 19♓18 | 16♎ 8 | 28♎25 | 22♑16 | 3°R41 | 28♑ 9 | 29♑16 | 11°R50 | 1°R45 | 8♈47 | 7♈19 | 6♐16 | n.a. | T 1 |
| F 2 | 2 32 2 | 7° 0'51 | 3♈21 | 17°19 | 29°40 | 22°59 | 3♋40 | 28°11 | 29°17 | 11♈48 | 1♉44 | 8°R48 | 7°16 | 6°22 | n.a. | F 2 |
| S 3 | 2 35 59 | 8° 1'48 | 17°50 | 18°33 | 0♏56 | 23°42 | 3°38 | 28°14 | 29°18 | 11°47 | 1°43 | 8°48 | 7°13 | 6°29 | n.a. | S 3 |
| S 4 | 2 39 55 | 9° 2'47 | 2♉41 | 19°50 | 2°11 | 24°25 | 3°36 | 28°17 | 29°19 | 11°45 | 1°42 | 8°46 | 7°10 | 6°36 | n.a. | S 4 |
| M 5 | 2 43 52 | 10° 3'46 | 17°47 | 21° 9 | 3°27 | 25° 8 | 3°33 | 28°21 | 29°21 | 11°44 | 1°41 | 8°43 | 7° 6 | 6°42 | n.a. | M 5 |
| T 6 | 2 47 48 | 11° 4'47 | 2♊58 | 22°30 | 4°42 | 25°51 | 3°31 | 28°24 | 29°22 | 11°42 | 1°39 | 8°38 | 7° 3 | 6°49 | n.a. | T 6 |
| W 7 | 2 51 45 | 12° 5'49 | 18° 4 | 23°52 | 5°58 | 26°35 | 3°28 | 28°27 | 29°23 | 11°41 | 1°38 | 8°33 | 7° 0 | 6°56 | n.a. | W 7 |
| T 8 | 2 55 42 | 13° 6'52 | 2♋56 | 25°16 | 7°14 | 27°18 | 3°26 | 28°30 | 29°24 | 11°40 | 1°37 | 8°28 | 6°57 | 7° 3 | n.a. | T 8 |
| F 9 | 2 59 38 | 14° 7'56 | 17°27 | 26°41 | 8°29 | 28° 1 | 3°23 | 28°34 | 29°26 | 11°38 | 1°36 | 8°24 | 6°54 | 7° 9 | n.a. | F 9 |
| S 10 | 3 3 35 | 15° 9'01 | 1♌33 | 28° 7 | 9°45 | 28°44 | 3°19 | 28°38 | 29°27 | 11°37 | 1°35 | 8°22 | 6°51 | 7°16 | n.a. | S 10 |
| S 11 | 3 7 31 | 16°10'08 | 15°14 | 29°34 | 11° 0 | 29°27 | 3°16 | 28°41 | 29°29 | 11°36 | 1°34 | 8°D21 | 6°47 | 7°23 | n.a. | S 11 |
| M12 | 3 11 28 | 17°11'15 | 28°30 | 1♏ 2 | 12°16 | 0♒11 | 3°12 | 28°45 | 29°30 | 11°34 | 1°33 | 8°21 | 6°44 | 7°29 | n.a. | M12 |
| T 13 | 3 15 24 | 18°12'24 | 11♍25 | 2°30 | 13°32 | 0°54 | 3° 9 | 28°49 | 29°32 | 11°33 | 1°32 | 8°23 | 6°41 | 7°36 | n.a. | T 13 |
| W14 | 3 19 21 | 19°13'33 | 24° 1 | 3°59 | 14°47 | 1°37 | 3° 5 | 28°53 | 29°33 | 11°32 | 1°31 | 8°24 | 6°38 | 7°43 | n.a. | W14 |
| T 15 | 3 23 17 | 20°14'43 | 6♎24 | 5°29 | 16° 3 | 2°20 | 3° 0 | 28°57 | 29°35 | 11°30 | 1°30 | 8°R25 | 6°35 | 7°49 | n.a. | T 15 |
| F 16 | 3 27 14 | 21°15'54 | 18°35 | 6°59 | 17°18 | 3° 4 | 2°56 | 29° 1 | 29°37 | 11°29 | 1°29 | 8°25 | 6°31 | 7°56 | n.a. | F 16 |
| S 17 | 3 31 11 | 22°17'06 | 0♏38 | 8°29 | 18°34 | 3°47 | 2°52 | 29° 5 | 29°39 | 11°28 | 1°27 | 8°22 | 6°28 | 8° 3 | n.a. | S 17 |
| S 18 | 3 35 7 | 23°18'19 | 12°36 | 10° 0 | 19°50 | 4°30 | 2°47 | 29° 9 | 29°40 | 11°27 | 1°26 | 8°17 | 6°25 | 8°10 | n.a. | S 18 |
| M19 | 3 39 4 | 24°19'32 | 24°29 | 11°31 | 21° 5 | 5°14 | 2°42 | 29°14 | 29°42 | 11°26 | 1°25 | 8°10 | 6°22 | 8°16 | n.a. | M19 |
| T 20 | 3 43 0 | 25°20'46 | 6♐21 | 13° 2 | 22°21 | 5°57 | 2°37 | 29°18 | 29°44 | 11°25 | 1°24 | 8° 1 | 6°19 | 8°23 | n.a. | T 20 |
| W21 | 3 46 57 | 26°22'01 | 18°12 | 14°33 | 23°36 | 6°40 | 2°32 | 29°23 | 29°46 | 11°23 | 1°23 | 7°51 | 6°16 | 8°30 | n.a. | W21 |
| T 22 | 3 50 53 | 27°23'15 | 0♑ 4 | 16° 5 | 24°52 | 7°24 | 2°26 | 29°27 | 29°48 | 11°22 | 1°22 | 7°41 | 6°12 | 8°36 | n.a. | T 22 |
| F 23 | 3 54 50 | 28°24'30 | 11°59 | 17°37 | 26° 8 | 8° 7 | 2°21 | 29°32 | 29°50 | 11°21 | 1°21 | 7°32 | 6° 9 | 8°43 | n.a. | F 23 |
| S 24 | 3 58 47 | 29°25'45 | 23°59 | 19° 9 | 27°23 | 8°51 | 2°15 | 29°37 | 29°52 | 11°20 | 1°20 | 7°24 | 6° 6 | 8°50 | n.a. | S 24 |
| S 25 | 4 2 43 | 0♐27'00 | 6♒ 8 | 20°42 | 28°39 | 9°34 | 2°10 | 29°42 | 29°54 | 11°19 | 1°19 | 7°18 | 6° 3 | 8°57 | n.a. | S 25 |
| M26 | 4 6 40 | 1°28'15 | 18°30 | 22°14 | 29°54 | 10°17 | 2° 4 | 29°46 | 29°56 | 11°18 | 1°18 | 7°15 | 6° 0 | 9° 3 | n.a. | M26 |
| T 27 | 4 10 36 | 2°29'30 | 1♓ 8 | 23°47 | 1♐10 | 11° 1 | 1°57 | 29°51 | 29°59 | 11°17 | 1°17 | 7°D14 | 5°57 | 9°10 | n.a. | T 27 |
| W28 | 4 14 33 | 3°30'45 | 14° 7 | 25°21 | 2°25 | 11°44 | 1°51 | 29°56 | 0♒ 1 | 11°17 | 1°16 | 7°15 | 5°53 | 9°17 | n.a. | W28 |
| T 29 | 4 18 29 | 4°32'00 | 27°31 | 26°54 | 3°41 | 12°28 | 1°45 | 0♒ 2 | 0° 3 | 11°16 | 1°16 | 7°15 | 5°50 | 9°23 | n.a. | T 29 |
| F 30 | 4 22 26 | 5♐33'14 | 11♈23 | 28♏28 | 4♐56 | 13♒11 | 1♋38 | 0♒ 7 | 0♒ 5 | 11♈15 | 1♉15 | 7°R16 | 5♈47 | 9♐30 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 13 s40 | 5 s53 | 1 s45 | 4 s17 | 2n19 | 10 s10 | 0n56 | 23 s35 | 1 s46 | 23n48 | 0n 9 | 21 s58 | 1 s13 | 21 s11 | 0 s39 | 2n53 | 2 s 1 | 0 s39 | 13 s42 | 3n31 | 2n56 | 25 s56 | | n.a. |
| F 2 | 14 1 | 0n54 | 0 30 | 4 48 | 2 15 | 10 39 | 0 54 | 23 27 | 1 45 | 23 49 | 0 9 | 21 57 | 1 13 | 21 10 | 0 39 | 2 52 | 2 1 | 0 39 | 13 42 | 3 32 | 2 55 | 25 58 | | n.a. |
| S 3 | 14 21 | 7 50 | 0n49 | 5 21 | 2 11 | 11 7 | 0 52 | 23 18 | 1 43 | 23 49 | 0 9 | 21 56 | 1 13 | 21 10 | 0 39 | 2 52 | 2 1 | 0 40 | 13 42 | 3 31 | 2 54 | 26 0 | | n.a. |
| S 4 | 14 40 | 14 32 | 2 7 | 5 54 | 2 6 | 11 35 | 0 50 | 23 9 | 1 42 | 23 49 | 0 9 | 21 56 | 1 13 | 21 10 | 0 39 | 2 51 | 2 1 | 0 40 | 13 42 | 3 31 | 2 52 | 26 1 | | n.a. |
| M 5 | 15 0 | 20 28 | 3 17 | 6 29 | 2 0 | 12 3 | 0 48 | 23 0 | 1 41 | 23 49 | 0 10 | 21 55 | 1 13 | 21 10 | 0 39 | 2 51 | 2 1 | 0 40 | 13 42 | 3 29 | 2 51 | 26 3 | | n.a. |
| T 6 | 15 19 | 25 8 | 4 14 | 7 4 | 1 55 | 12 31 | 0 46 | 22 51 | 1 40 | 23 50 | 0 10 | 21 54 | 1 13 | 21 9 | 0 39 | 2 50 | 2 1 | 0 41 | 13 42 | 3 28 | 2 50 | 26 4 | | n.a. |
| W 7 | 15 38 | 28 1 | 4 52 | 7 41 | 1 49 | 12 58 | 0 44 | 22 41 | 1 39 | 23 50 | 0 10 | 21 53 | 1 13 | 21 9 | 0 39 | 2 50 | 2 0 | 0 41 | 13 42 | 3 26 | 2 49 | 26 6 | | n.a. |
| T 8 | 15 57 | 28 50 | 5 10 | 8 17 | 1 43 | 13 25 | 0 42 | 22 31 | 1 37 | 23 50 | 0 10 | 21 53 | 1 13 | 21 9 | 0 39 | 2 49 | 2 0 | 0 41 | 13 42 | 3 24 | 2 47 | 26 8 | | n.a. |
| F 9 | 16 16 | 27 38 | 5 8 | 8 54 | 1 36 | 13 52 | 0 39 | 22 22 | 1 36 | 23 50 | 0 10 | 21 52 | 1 13 | 21 8 | 0 39 | 2 49 | 2 0 | 0 41 | 13 42 | 3 22 | 2 46 | 26 9 | | n.a. |
| S 10 | 16 34 | 24 41 | 4 46 | 9 32 | 1 30 | 14 19 | 0 37 | 22 11 | 1 35 | 23 50 | 0 10 | 21 51 | 1 13 | 21 8 | 0 39 | 2 48 | 2 0 | 0 42 | 13 42 | 3 21 | 2 45 | 26 11 | | n.a. |
| S 11 | 16 52 | 20 25 | 4 9 | 10 9 | 1 23 | 14 45 | 0 35 | 22 1 | 1 34 | 23 51 | 0 11 | 21 50 | 1 13 | 21 8 | 0 39 | 2 48 | 2 0 | 0 42 | 13 41 | 3 21 | 2 43 | 26 12 | | n.a. |
| M12 | 17 9 | 15 15 | 3 20 | 10 46 | 1 16 | 15 10 | 0 33 | 21 51 | 1 32 | 23 51 | 0 11 | 21 50 | 1 13 | 21 7 | 0 39 | 2 47 | 2 0 | 0 42 | 13 41 | 3 21 | 2 42 | 26 14 | | n.a. |
| T 13 | 17 27 | 9 32 | 2 21 | 11 24 | 1 9 | 15 35 | 0 31 | 21 40 | 1 31 | 23 51 | 0 11 | 21 49 | 1 13 | 21 7 | 0 39 | 2 47 | 2 0 | 0 42 | 13 41 | 3 22 | 2 41 | 26 16 | | n.a. |
| W14 | 17 44 | 3 35 | 1 17 | 12 1 | 1 2 | 16 0 | 0 28 | 21 29 | 1 30 | 23 52 | 0 11 | 21 48 | 1 13 | 21 7 | 0 39 | 2 46 | 2 0 | 0 43 | 13 41 | 3 22 | 2 40 | 26 17 | | n.a. |
| T 15 | 18 0 | 2 s24 | 0 11 | 12 38 | 0 55 | 16 25 | 0 26 | 21 18 | 1 29 | 23 52 | 0 11 | 21 47 | 1 12 | 21 6 | 0 39 | 2 46 | 2 0 | 0 43 | 13 41 | 3 23 | 2 38 | 26 19 | | n.a. |
| F 16 | 18 17 | 8 12 | 0 s55 | 13 14 | 0 48 | 16 49 | 0 24 | 21 7 | 1 27 | 23 52 | 0 11 | 21 46 | 1 12 | 21 6 | 0 39 | 2 45 | 2 0 | 0 43 | 13 41 | 3 22 | 2 37 | 26 20 | | n.a. |
| S 17 | 18 33 | 13 39 | 1 57 | 13 51 | 0 41 | 17 12 | 0 22 | 20 55 | 1 26 | 23 52 | 0 12 | 21 45 | 1 12 | 21 5 | 0 39 | 2 45 | 2 0 | 0 43 | 13 41 | 3 21 | 2 36 | 26 22 | | n.a. |
| S 18 | 18 49 | 18 33 | 2 54 | 14 26 | 0 34 | 17 35 | 0 19 | 20 44 | 1 25 | 23 53 | 0 12 | 21 44 | 1 12 | 21 5 | 0 39 | 2 44 | 2 0 | 0 44 | 13 41 | 3 19 | 2 35 | 26 23 | | n.a. |
| M19 | 19 4 | 22 42 | 3 42 | 15 2 | 0 27 | 17 58 | 0 17 | 20 32 | 1 24 | 23 53 | 0 12 | 21 43 | 1 12 | 21 5 | 0 39 | 2 44 | 2 0 | 0 44 | 13 40 | 3 16 | 2 33 | 26 25 | | n.a. |
| T 20 | 19 19 | 25 54 | 4 21 | 15 37 | 0 20 | 18 20 | 0 14 | 20 20 | 1 23 | 23 53 | 0 12 | 21 42 | 1 12 | 21 4 | 0 39 | 2 44 | 2 0 | 0 44 | 13 40 | 3 13 | 2 32 | 26 26 | | n.a. |
| W21 | 19 34 | 27 58 | 4 48 | 16 11 | 0 13 | 18 41 | 0 12 | 20 8 | 1 21 | 23 53 | 0 12 | 21 41 | 1 12 | 21 4 | 0 39 | 2 43 | 2 0 | 0 44 | 13 40 | 3 9 | 2 31 | 26 28 | | n.a. |
| T 22 | 19 48 | 28 46 | 5 3 | 16 45 | 0 6 | 19 2 | 0 10 | 19 55 | 1 20 | 23 54 | 0 12 | 21 40 | 1 12 | 21 3 | 0 39 | 2 43 | 2 0 | 0 44 | 13 40 | 3 5 | 2 29 | 26 29 | | n.a. |
| F 23 | 20 2 | 28 14 | 5 5 | 17 18 | 0 s 1 | 19 23 | 0 7 | 19 43 | 1 19 | 23 54 | 0 13 | 21 39 | 1 12 | 21 3 | 0 39 | 2 42 | 2 0 | 0 45 | 13 40 | 3 1 | 2 28 | 26 31 | | n.a. |
| S 24 | 20 15 | 26 22 | 4 53 | 17 50 | 0 8 | 19 43 | 0 5 | 19 30 | 1 18 | 23 54 | 0 13 | 21 38 | 1 12 | 21 2 | 0 39 | 2 42 | 2 0 | 0 45 | 13 40 | 2 58 | 2 27 | 26 32 | | n.a. |
| S 25 | 20 28 | 23 17 | 4 29 | 18 22 | 0 15 | 20 2 | 0 3 | 19 17 | 1 17 | 23 54 | 0 13 | 21 37 | 1 12 | 21 2 | 0 39 | 2 42 | 2 0 | 0 45 | 13 40 | 2 56 | 2 26 | 26 34 | | n.a. |
| M26 | 20 41 | 19 6 | 3 51 | 18 53 | 0 21 | 20 21 | 0 0 | 19 4 | 1 16 | 23 55 | 0 13 | 21 36 | 1 12 | 21 1 | 0 39 | 2 41 | 2 0 | 0 45 | 13 39 | 2 55 | 2 24 | 26 35 | | n.a. |
| T 27 | 20 54 | 14 0 | 3 1 | 19 23 | 0 28 | 20 40 | 0 s 2 | 18 51 | 1 14 | 23 55 | 0 13 | 21 35 | 1 12 | 21 1 | 0 39 | 2 41 | 2 0 | 0 45 | 13 39 | 2 54 | 2 23 | 26 37 | | n.a. |
| W28 | 21 6 | 8 10 | 2 1 | 19 52 | 0 34 | 20 57 | 0 5 | 18 38 | 1 13 | 23 55 | 0 13 | 21 34 | 1 12 | 21 0 | 0 39 | 2 41 | 2 0 | 0 45 | 13 39 | 2 54 | 2 22 | 26 38 | | n.a. |
| T 29 | 21 17 | 1 47 | 0 52 | 20 20 | 0 40 | 21 14 | 0 7 | 18 24 | 1 12 | 23 56 | 0 14 | 21 33 | 1 12 | 21 0 | 0 39 | 2 40 | 1 59 | 0 46 | 13 39 | 2 55 | 2 21 | 26 40 | | n.a. |
| F 30 | 21 s28 | 4n54 | 0n22 | 20 s48 | 0 s47 | 21 s31 | 0 s 9 | 18 s11 | 1 s11 | 23n56 | 0n14 | 21 s32 | 1 s12 | 20 s59 | 0 s39 | 2n40 | 1 s59 | 0 s46 | 13 s39 | 2n55 | 2n19 | 26 s41 | | n.a. |

Julian Day Number = 1685567.5, Delta T = 03h13m11s
Ecliptic obliquity = 23°42'34, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°25'14, Lahiri = - 5°18'13 Julian Calendar 1 Nov. 99 BCE == Greg. Calendar 30 Oct. 099 BCE

The year -98 astronomical counting style corresponds to year 099 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 99 BCE
# geocentric

## DECEMBER 99 BCE (-98) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 4 26 22 | 6♐34'28 | 25♈44 | 0♐ 2 | 6♐12 | 13♒54 | 1°R32 | 0♒12 | 0♒ 8 | 11°R14 | 1°R14 | 7°R14 | 5♈44 | 9♐37 | n.a. | S 1 |
| S 2 | 4 30 19 | 7°35'42 | 10♉32 | 1°36 | 7°27 | 14°38 | 1♋25 | 0°17 | 0°10 | 11♈13 | 1♉13 | 7♈10 | 5°41 | 9°43 | n.a. | S 2 |
| M 3 | 4 34 16 | 8°36'56 | 25°40 | 3°11 | 8°43 | 15°21 | 1°18 | 0°23 | 0°13 | 11°12 | 1°12 | 7° 4 | 5°37 | 9°50 | n.a. | M 3 |
| T 4 | 4 38 12 | 9°38'10 | 11♊ 0 | 4°45 | 9°58 | 16° 4 | 1°11 | 0°28 | 0°15 | 11°12 | 1°11 | 6°55 | 5°34 | 9°57 | n.a. | T 4 |
| W 5 | 4 42 9 | 10°39'24 | 26°21 | 6°21 | 11°14 | 16°48 | 1° 4 | 0°34 | 0°17 | 11°11 | 1°10 | 6°45 | 5°31 | 10° 4 | n.a. | W 5 |
| T 6 | 4 46 5 | 11°40'38 | 11♋31 | 7°56 | 12°29 | 17°31 | 0°57 | 0°39 | 0°20 | 11°10 | 1° 9 | 6°35 | 5°28 | 10°10 | n.a. | T 6 |
| F 7 | 4 50 2 | 12°41'52 | 26°20 | 9°32 | 13°45 | 18°14 | 0°50 | 0°45 | 0°23 | 11°10 | 1° 9 | 6°26 | 5°25 | 10°17 | n.a. | F 7 |
| S 8 | 4 53 58 | 13°43'06 | 10♌42 | 11° 8 | 15° 0 | 18°58 | 0°42 | 0°51 | 0°25 | 11° 9 | 1° 8 | 6°20 | 5°22 | 10°24 | n.a. | S 8 |
| S 9 | 4 57 55 | 14°44'20 | 24°33 | 12°45 | 16°16 | 19°41 | 0°35 | 0°57 | 0°28 | 11° 9 | 1° 7 | 6°16 | 5°18 | 10°30 | n.a. | S 9 |
| M10 | 5 1 51 | 15°45'33 | 7♍55 | 14°22 | 17°31 | 20°24 | 0°27 | 1° 2 | 0°30 | 11° 8 | 1° 6 | 6°14 | 5°15 | 10°37 | n.a. | M10 |
| T 11 | 5 5 48 | 16°46'47 | 20°50 | 16° 0 | 18°47 | 21° 8 | 0°20 | 1° 8 | 0°33 | 11° 8 | 1° 5 | 6°D14 | 5°12 | 10°44 | n.a. | T 11 |
| W12 | 5 9 45 | 17°48'00 | 3♎23 | 17°38 | 20° 2 | 21°51 | 0°12 | 1°14 | 0°36 | 11° 7 | 1° 5 | 6°R14 | 5° 9 | 10°51 | n.a. | W12 |
| T 13 | 5 13 41 | 18°49'14 | 15°39 | 19°16 | 21°17 | 22°34 | 0° 4 | 1°20 | 0°39 | 11° 7 | 1° 4 | 6°13 | 5° 6 | 10°57 | n.a. | T 13 |
| F 14 | 5 17 38 | 19°50'27 | 27°43 | 20°55 | 22°33 | 23°17 | 29♊56 | 1°26 | 0°41 | 11° 6 | 1° 3 | 6°11 | 5° 3 | 11° 4 | n.a. | F 14 |
| S 15 | 5 21 34 | 20°51'40 | 9♏39 | 22°35 | 23°48 | 24° 1 | 29°49 | 1°33 | 0°44 | 11° 6 | 1° 3 | 6° 7 | 4°59 | 11°11 | n.a. | S 15 |
| S 16 | 5 25 31 | 21°52'52 | 21°30 | 24°14 | 25° 4 | 24°44 | 29°41 | 1°39 | 0°47 | 11° 6 | 1° 2 | 5°59 | 4°56 | 11°17 | n.a. | S 16 |
| M17 | 5 29 27 | 22°54'05 | 3♐20 | 25°55 | 26°19 | 25°27 | 29°33 | 1°45 | 0°50 | 11° 5 | 1° 1 | 5°48 | 4°53 | 11°24 | n.a. | M17 |
| T 18 | 5 33 24 | 23°55'16 | 15°11 | 27°36 | 27°34 | 26°10 | 29°25 | 1°51 | 0°53 | 11° 5 | 1° 1 | 5°35 | 4°50 | 11°31 | n.a. | T 18 |
| W19 | 5 37 21 | 24°56'27 | 27° 4 | 29°17 | 28°50 | 26°54 | 29°17 | 1°58 | 0°56 | 11° 5 | 1° 0 | 5°20 | 4°47 | 11°38 | n.a. | W19 |
| T 20 | 5 41 17 | 25°57'38 | 9♑ 1 | 0♑59 | 0♑ 5 | 27°37 | 29° 9 | 2° 4 | 0°59 | 11° 5 | 0°59 | 5° 5 | 4°43 | 11°44 | n.a. | T 20 |
| F 21 | 5 45 14 | 26°58'47 | 21° 3 | 2°41 | 1°20 | 28°20 | 29° 1 | 2°10 | 1° 2 | 11° 4 | 0°59 | 4°51 | 4°40 | 11°51 | n.a. | F 21 |
| S 22 | 5 49 10 | 27°59'56 | 3♒11 | 4°23 | 2°36 | 29° 3 | 28°53 | 2°17 | 1° 5 | 11° 4 | 0°58 | 4°39 | 4°37 | 11°58 | n.a. | S 22 |
| S 23 | 5 53 7 | 29° 1'04 | 15°27 | 6° 6 | 3°51 | 29°46 | 28°45 | 2°23 | 1° 8 | 11° 4 | 0°58 | 4°30 | 4°34 | 12° 4 | n.a. | S 23 |
| M24 | 5 57 3 | 0♑ 2'10 | 27°53 | 7°49 | 5° 6 | 0♓29 | 28°37 | 2°30 | 1°11 | 11° 4 | 0°57 | 4°23 | 4°31 | 12°11 | n.a. | M24 |
| T 25 | 6 1 0 | 1° 3'16 | 10♓32 | 9°33 | 6°22 | 1°12 | 28°28 | 2°37 | 1°14 | 11°D 4 | 0°57 | 4°20 | 4°28 | 12°18 | n.a. | T 25 |
| W26 | 6 4 56 | 2° 4'20 | 23°28 | 11°17 | 7°37 | 1°55 | 28°20 | 2°43 | 1°17 | 11° 4 | 0°56 | 4°19 | 4°24 | 12°25 | n.a. | W26 |
| T 27 | 6 8 53 | 3° 5'23 | 6♈44 | 13° 0 | 8°52 | 2°38 | 28°12 | 2°50 | 1°20 | 11° 4 | 0°56 | 4°19 | 4°21 | 12°31 | n.a. | T 27 |
| F 28 | 6 12 50 | 4° 6'25 | 20°24 | 14°44 | 10° 8 | 3°21 | 28° 4 | 2°57 | 1°23 | 11° 4 | 0°55 | 4°19 | 4°18 | 12°38 | n.a. | F 28 |
| S 29 | 6 16 46 | 5° 7'25 | 4♉29 | 16°28 | 11°23 | 4° 4 | 27°56 | 3° 4 | 1°27 | 11° 4 | 0°55 | 4°17 | 4°15 | 12°45 | n.a. | S 29 |
| S 30 | 6 20 43 | 6° 8'25 | 19° 0 | 18°11 | 12°38 | 4°47 | 27°49 | 3°10 | 1°30 | 11° 5 | 0°54 | 4°12 | 4°12 | 12°51 | n.a. | S 30 |
| M31 | 6 24 39 | 7♑ 9'23 | 3♊53 | 19♑54 | 13♑53 | 5♓30 | 27♊41 | 3♒17 | 1♒33 | 11♈ 5 | 0♉54 | 4♈ 5 | 4♈ 9 | 12♐58 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21s39 | 11n34 | 1n37 | 21s14 | 0s53 | 21s47 | 0s12 | 17s57 | 1s10 | 23n56 | 0n14 | 21s30 | 1s12 | 20s59 | 0s39 | 2n40 | 1s59 | 0s46 | 13s38 | 2n54 | 2n18 | 26s43 | | n.a. |
| S 2 | 21 49 | 17 48 | 2 48 | 21 40 | 0 58 | 22 2 | 0 14 | 17 43 | 1 9 | 23 56 | 0 14 | 21 29 | 1 12 | 20 58 | 0 39 | 2 40 | 1 59 | 0 46 | 13 38 | 2 53 | 2 17 | 26 44 | | n.a. |
| M 3 | 21 59 | 23 5 | 3 48 | 22 5 | 1 4 | 22 16 | 0 16 | 17 29 | 1 7 | 23 56 | 0 14 | 21 28 | 1 12 | 20 58 | 0 39 | 2 39 | 1 59 | 0 46 | 13 38 | 2 50 | 2 16 | 26 45 | | n.a. |
| T 4 | 22 9 | 26 51 | 4 33 | 22 28 | 1 10 | 22 30 | 0 19 | 17 15 | 1 6 | 23 57 | 0 14 | 21 27 | 1 12 | 20 57 | 0 39 | 2 39 | 1 59 | 0 46 | 13 38 | 2 47 | 2 14 | 26 47 | | n.a. |
| W 5 | 22 18 | 28 37 | 4 58 | 22 50 | 1 15 | 22 43 | 0 21 | 17 1 | 1 5 | 23 57 | 0 15 | 21 26 | 1 12 | 20 57 | 0 39 | 2 39 | 1 59 | 0 46 | 13 38 | 2 43 | 2 13 | 26 48 | | n.a. |
| T 6 | 22 26 | 28 13 | 5 2 | 23 12 | 1 20 | 22 56 | 0 23 | 16 46 | 1 4 | 23 57 | 0 15 | 21 24 | 1 12 | 20 56 | 0 39 | 2 39 | 1 59 | 0 46 | 13 37 | 2 39 | 2 12 | 26 50 | | n.a. |
| F 7 | 22 35 | 25 47 | 4 45 | 23 32 | 1 25 | 23 8 | 0 26 | 16 32 | 1 3 | 23 57 | 0 15 | 21 23 | 1 12 | 20 55 | 0 39 | 2 39 | 1 59 | 0 46 | 13 37 | 2 35 | 2 10 | 26 51 | | n.a. |
| S 8 | 22 42 | 21 46 | 4 11 | 23 50 | 1 29 | 23 19 | 0 28 | 16 17 | 1 2 | 23 58 | 0 15 | 21 22 | 1 12 | 20 55 | 0 38 | 2 38 | 1 59 | 0 46 | 13 37 | 2 32 | 2 9 | 26 52 | | n.a. |
| S 9 | 22 49 | 16 40 | 3 22 | 24 8 | 1 34 | 23 29 | 0 30 | 16 2 | 1 1 | 23 58 | 0 15 | 21 20 | 1 12 | 20 54 | 0 38 | 2 38 | 1 59 | 0 46 | 13 37 | 2 31 | 2 8 | 26 54 | | n.a. |
| M10 | 22 56 | 10 55 | 2 24 | 24 24 | 1 38 | 23 39 | 0 32 | 15 47 | 1 0 | 23 58 | 0 15 | 21 19 | 1 12 | 20 54 | 0 38 | 2 38 | 1 59 | 0 47 | 13 36 | 2 30 | 2 7 | 26 55 | | n.a. |
| T 11 | 23 3 | 4 54 | 1 21 | 24 39 | 1 42 | 23 48 | 0 34 | 15 32 | 0 59 | 23 58 | 0 16 | 21 18 | 1 12 | 20 53 | 0 38 | 2 38 | 1 59 | 0 47 | 13 36 | 2 30 | 2 5 | 26 57 | | n.a. |
| W12 | 23 9 | 1s 8 | 0 15 | 24 53 | 1 46 | 23 56 | 0 37 | 15 17 | 0 57 | 23 58 | 0 16 | 21 16 | 1 12 | 20 52 | 0 38 | 2 38 | 1 59 | 0 47 | 13 36 | 2 30 | 2 4 | 26 58 | | n.a. |
| T 13 | 23 14 | 7 0 | 0s50 | 25 5 | 1 49 | 24 4 | 0 39 | 15 2 | 0 56 | 23 58 | 0 16 | 21 15 | 1 12 | 20 52 | 0 38 | 2 38 | 1 59 | 0 47 | 13 36 | 2 30 | 2 3 | 26 59 | | n.a. |
| F 14 | 23 19 | 12 30 | 1 51 | 25 15 | 1 52 | 24 11 | 0 41 | 14 47 | 0 55 | 23 59 | 0 16 | 21 14 | 1 12 | 20 51 | 0 38 | 2 38 | 1 59 | 0 47 | 13 35 | 2 29 | 2 2 | 27 1 | | n.a. |
| S 15 | 23 23 | 17 30 | 2 47 | 25 24 | 1 55 | 24 17 | 0 43 | 14 31 | 0 54 | 23 59 | 0 16 | 21 12 | 1 12 | 20 51 | 0 38 | 2 38 | 1 59 | 0 47 | 13 35 | 2 27 | 2 0 | 27 2 | | n.a. |
| S 16 | 23 27 | 21 48 | 3 35 | 25 32 | 1 57 | 24 22 | 0 45 | 14 15 | 0 53 | 23 59 | 0 16 | 21 11 | 1 12 | 20 50 | 0 38 | 2 37 | 1 58 | 0 47 | 13 35 | 2 24 | 1 59 | 27 3 | | n.a. |
| M17 | 23 31 | 25 12 | 4 14 | 25 38 | 1 59 | 24 26 | 0 47 | 14 0 | 0 52 | 23 59 | 0 17 | 21 10 | 1 12 | 20 49 | 0 38 | 2 37 | 1 58 | 0 47 | 13 35 | 2 20 | 1 58 | 27 5 | | n.a. |
| T 18 | 23 34 | 27 32 | 4 41 | 25 42 | 2 1 | 24 30 | 0 49 | 13 44 | 0 51 | 23 59 | 0 17 | 21 8 | 1 12 | 20 49 | 0 38 | 2 37 | 1 58 | 0 47 | 13 34 | 2 14 | 1 56 | 27 6 | | n.a. |
| W19 | 23 37 | 28 37 | 4 56 | 25 45 | 2 2 | 24 33 | 0 51 | 13 28 | 0 50 | 23 59 | 0 17 | 21 7 | 1 12 | 20 48 | 0 38 | 2 37 | 1 58 | 0 46 | 13 34 | 2 9 | 1 55 | 27 7 | | n.a. |
| T 20 | 23 39 | 28 22 | 4 59 | 25 45 | 2 3 | 24 35 | 0 53 | 13 12 | 0 49 | 23 59 | 0 17 | 21 5 | 1 12 | 20 47 | 0 38 | 2 37 | 1 58 | 0 46 | 13 34 | 2 3 | 1 54 | 27 8 | | n.a. |
| F 21 | 23 40 | 26 47 | 4 48 | 25 44 | 2 4 | 24 37 | 0 55 | 12 56 | 0 48 | 23 59 | 0 17 | 21 4 | 1 12 | 20 47 | 0 38 | 2 37 | 1 58 | 0 46 | 13 34 | 1 57 | 1 53 | 27 10 | | n.a. |
| S 22 | 23 42 | 23 56 | 4 24 | 25 42 | 2 4 | 24 38 | 0 57 | 12 40 | 0 47 | 24 0 | 0 17 | 21 2 | 1 12 | 20 46 | 0 38 | 2 37 | 1 58 | 0 46 | 13 33 | 1 52 | 1 51 | 27 11 | | n.a. |
| S 23 | 23 42 | 20 0 | 3 47 | 25 37 | 2 3 | 24 38 | 0 58 | 12 24 | 0 46 | 24 0 | 0 17 | 21 1 | 1 12 | 20 45 | 0 38 | 2 37 | 1 58 | 0 46 | 13 33 | 1 48 | 1 50 | 27 12 | | n.a. |
| M24 | 23 43 | 15 9 | 2 59 | 25 30 | 2 2 | 24 37 | 1 0 | 12 7 | 0 45 | 24 0 | 0 18 | 20 59 | 1 12 | 20 45 | 0 38 | 2 37 | 1 58 | 0 46 | 13 33 | 1 46 | 1 49 | 27 14 | | n.a. |
| T 25 | 23 42 | 9 35 | 2 2 | 25 22 | 2 1 | 24 35 | 1 2 | 11 51 | 0 44 | 24 0 | 0 18 | 20 58 | 1 12 | 20 44 | 0 38 | 2 37 | 1 58 | 0 46 | 13 33 | 1 45 | 1 47 | 27 15 | | n.a. |
| W26 | 23 42 | 3 30 | 0 57 | 25 11 | 1 58 | 24 33 | 1 4 | 11 34 | 0 43 | 24 0 | 0 18 | 20 56 | 1 12 | 20 43 | 0 38 | 2 37 | 1 58 | 0 46 | 13 32 | 1 44 | 1 46 | 27 16 | | n.a. |
| T 27 | 23 40 | 2n54 | 0n13 | 24 59 | 1 56 | 24 30 | 1 5 | 11 18 | 0 42 | 24 0 | 0 18 | 20 55 | 1 12 | 20 42 | 0 38 | 2 38 | 1 58 | 0 46 | 13 32 | 1 44 | 1 45 | 27 17 | | n.a. |
| F 28 | 23 39 | 9 21 | 1 24 | 24 45 | 1 53 | 24 26 | 1 7 | 11 1 | 0 41 | 24 0 | 0 18 | 20 53 | 1 12 | 20 42 | 0 38 | 2 38 | 1 58 | 0 46 | 13 32 | 1 44 | 1 44 | 27 19 | | n.a. |
| S 29 | 23 37 | 15 32 | 2 32 | 24 29 | 1 49 | 24 21 | 1 8 | 10 44 | 0 40 | 24 0 | 0 18 | 20 51 | 1 12 | 20 41 | 0 38 | 2 38 | 1 58 | 0 46 | 13 31 | 1 43 | 1 42 | 27 20 | | n.a. |
| S 30 | 23 34 | 21 4 | 3 32 | 24 11 | 1 44 | 24 16 | 1 10 | 10 27 | 0 39 | 24 0 | 0 18 | 20 50 | 1 12 | 20 40 | 0 38 | 2 38 | 1 58 | 0 45 | 13 31 | 1 41 | 1 41 | 27 21 | | n.a. |
| M31 | 23s31 | 25n25 | 4n20 | 23s51 | 1s39 | 24s 9 | 1s11 | 10s11 | 0s38 | 24n 0 | 0n19 | 20s48 | 1s12 | 20s40 | 0s38 | 2n38 | 1s57 | 0s45 | 13s31 | 1n38 | 1n40 | 27s22 | | n.a. |

Julian Day Number = 1685597.5, Delta T = 03h13m10s
Ecliptic obliquity = 23°42'34, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°25'10, Lahiri = - 5°18'09 Julian Calendar 1 Dec. 99 BCE == Greg. Calendar 29 Nov. 099 BCE

The year -98 astronomical counting style corresponds to year 099 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 98 BCE
# geocentric

## JANUARY 98 BCE (-97) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 28 36 | 8♉10'19 | 19♊ 2 | 21♉36 | 15♉ 8 | 6♓13 | 27°R33 | 3♒24 | 1♒36 | 11♈ 5 | 0°R54 | 3°R55 | 4♈ 5 | 13♐ 5 | n.a. | T 1 |
| W 2 | 6 32 32 | 9°11'15 | 4♋17 | 23°16 | 16°24 | 6°56 | 27♊25 | 3°31 | 1°40 | 11° 5 | 0♉53 | 3♈43 | 4° 2 | 13°12 | n.a. | W 2 |
| T 3 | 6 36 29 | 10°12'09 | 19°27 | 24°56 | 17°39 | 7°39 | 27°17 | 3°38 | 1°43 | 11° 6 | 0°53 | 3°32 | 3°59 | 13°18 | n.a. | T 3 |
| F 4 | 6 40 26 | 11°13'02 | 4♌22 | 26°34 | 18°54 | 8°22 | 27°10 | 3°45 | 1°46 | 11° 6 | 0°53 | 3°21 | 3°56 | 13°25 | n.a. | F 4 |
| S 5 | 6 44 22 | 12°13'54 | 18°52 | 28° 9 | 20° 9 | 9° 5 | 27° 2 | 3°52 | 1°49 | 11° 6 | 0°52 | 3°12 | 3°53 | 13°32 | n.a. | S 5 |
| S 6 | 6 48 19 | 13°14'44 | 2♍53 | 29°42 | 21°24 | 9°47 | 26°55 | 3°59 | 1°53 | 11° 7 | 0°52 | 3° 7 | 3°49 | 13°38 | n.a. | S 6 |
| M 7 | 6 52 15 | 14°15'34 | 16°24 | 1♒12 | 22°39 | 10°30 | 26°47 | 4° 6 | 1°56 | 11° 7 | 0°52 | 3° 4 | 3°46 | 13°45 | n.a. | M 7 |
| T 8 | 6 56 12 | 15°16'22 | 29°26 | 2°38 | 23°54 | 11°13 | 26°40 | 4°13 | 1°59 | 11° 8 | 0°52 | 3°D 3 | 3°43 | 13°52 | n.a. | T 8 |
| W 9 | 7 0 8 | 16°17'09 | 12♎ 4 | 4° 0 | 25°10 | 11°55 | 26°33 | 4°20 | 2° 3 | 11° 8 | 0°52 | 3°R 3 | 3°40 | 13°59 | n.a. | W 9 |
| T 10 | 7 4 5 | 17°17'56 | 24°23 | 5°16 | 26°25 | 12°38 | 26°26 | 4°27 | 2° 6 | 11° 9 | 0°51 | 3° 3 | 3°37 | 14° 5 | n.a. | T 10 |
| F 11 | 7 8 1 | 18°18'41 | 6♏26 | 6°27 | 27°40 | 13°21 | 26°19 | 4°34 | 2°10 | 11° 9 | 0°51 | 3° 1 | 3°34 | 14°12 | n.a. | F 11 |
| S 12 | 7 11 58 | 19°19'25 | 18°21 | 7°31 | 28°55 | 14° 3 | 26°12 | 4°42 | 2°13 | 11°10 | 0°51 | 2°58 | 3°30 | 14°19 | n.a. | S 12 |
| S 13 | 7 15 55 | 20°20'07 | 0♐11 | 8°28 | 0♒10 | 14°46 | 26° 5 | 4°49 | 2°16 | 11°10 | 0°51 | 2°51 | 3°27 | 14°25 | n.a. | S 13 |
| M14 | 7 19 51 | 21°20'49 | 12° 0 | 9°16 | 1°25 | 15°28 | 25°58 | 4°56 | 2°20 | 11°11 | 0°51 | 2°42 | 3°24 | 14°32 | n.a. | M14 |
| T 15 | 7 23 48 | 22°21'29 | 23°53 | 9°56 | 2°40 | 16°11 | 25°52 | 5° 3 | 2°23 | 11°12 | 0°51 | 2°30 | 3°21 | 14°39 | n.a. | T 15 |
| W16 | 7 27 44 | 23°22'07 | 5♑50 | 10°27 | 3°55 | 16°53 | 25°45 | 5°11 | 2°27 | 11°13 | 0°51 | 2°17 | 3°18 | 14°46 | n.a. | W16 |
| T 17 | 7 31 41 | 24°22'44 | 17°54 | 10°47 | 5°10 | 17°36 | 25°39 | 5°18 | 2°30 | 11°13 | 0°D51 | 2° 4 | 3°15 | 14°52 | n.a. | T 17 |
| F 18 | 7 35 37 | 25°23'20 | 0♒ 7 | 10°58 | 6°25 | 18°18 | 25°33 | 5°25 | 2°33 | 11°14 | 0°51 | 1°51 | 3°11 | 14°59 | n.a. | F 18 |
| S 19 | 7 39 34 | 26°23'53 | 12°27 | 10°R58 | 7°40 | 19° 1 | 25°27 | 5°32 | 2°37 | 11°15 | 0°51 | 1°40 | 3° 8 | 15° 6 | n.a. | S 19 |
| S 20 | 7 43 30 | 27°24'25 | 24°57 | 10°48 | 8°55 | 19°43 | 25°21 | 5°40 | 2°40 | 11°16 | 0°51 | 1°32 | 3° 5 | 15°13 | n.a. | S 20 |
| M21 | 7 47 27 | 28°24'55 | 7♓37 | 10°28 | 10° 9 | 20°26 | 25°15 | 5°47 | 2°44 | 11°17 | 0°51 | 1°26 | 3° 2 | 15°19 | n.a. | M21 |
| T 22 | 7 51 24 | 29°25'23 | 20°28 | 9°58 | 11°24 | 21° 8 | 25°10 | 5°54 | 2°47 | 11°18 | 0°51 | 1°24 | 2°59 | 15°26 | n.a. | T 22 |
| W23 | 7 55 20 | 0♒25'49 | 3♈33 | 9°19 | 12°39 | 21°50 | 25° 4 | 6° 2 | 2°51 | 11°19 | 0°51 | 1°D23 | 2°55 | 15°33 | n.a. | W23 |
| T 24 | 7 59 17 | 1°26'13 | 16°52 | 8°32 | 13°54 | 22°32 | 24°59 | 6° 9 | 2°54 | 11°20 | 0°51 | 1°24 | 2°52 | 15°39 | n.a. | T 24 |
| F 25 | 8 3 13 | 2°26'35 | 0♉29 | 7°39 | 15° 9 | 23°15 | 24°54 | 6°16 | 2°58 | 11°21 | 0°51 | 1°R24 | 2°49 | 15°46 | n.a. | F 25 |
| S 26 | 8 7 10 | 3°26'55 | 14°24 | 6°41 | 16°23 | 23°57 | 24°49 | 6°24 | 3° 1 | 11°22 | 0°52 | 1°24 | 2°46 | 15°53 | n.a. | S 26 |
| S 27 | 8 11 6 | 4°27'13 | 28°39 | 5°39 | 17°38 | 24°39 | 24°44 | 6°31 | 3° 5 | 11°23 | 0°52 | 1°21 | 2°43 | 16° 0 | n.a. | S 27 |
| M28 | 8 15 3 | 5°27'29 | 13♊11 | 4°34 | 18°53 | 25°21 | 24°40 | 6°38 | 3° 8 | 11°24 | 0°52 | 1°17 | 2°40 | 16° 6 | n.a. | M28 |
| T 29 | 8 18 59 | 6°27'42 | 27°56 | 3°30 | 20° 8 | 26° 3 | 24°35 | 6°46 | 3°12 | 11°25 | 0°52 | 1°10 | 2°36 | 16°13 | n.a. | T 29 |
| W30 | 8 22 56 | 7°27'54 | 12♋49 | 2°26 | 21°22 | 26°45 | 24°31 | 6°53 | 3°15 | 11°26 | 0°53 | 1° 1 | 2°33 | 16°20 | n.a. | W30 |
| T 31 | 8 26 53 | 8♒28'04 | 27♋39 | 1♒25 | 22♒37 | 27♓27 | 24♊27 | 7♒ 1 | 3♒18 | 11♈28 | 0♉53 | 0♈53 | 2♈30 | 16♐26 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 23 s27 | 28n 4 | 4n50 | 23 s29 | 1 s33 | 24 s 2 | 1 s13 | 9 s54 | 0 s37 | 24n 0 | 0n19 | 20 s47 | 1 s12 | 20 s39 | 0 s38 | 2n38 | 1 s57 | 0 s45 | 13 s31 | 1n34 | 1n39 | 27 s23 | | | n.a. |
| W 2 | 23 23 | 28 38 | 5 0 | 23 5 | 1 26 | 23 55 | 1 14 | 9 37 | 0 36 | 24 0 | 0 19 | 20 45 | 1 12 | 20 38 | 0 38 | 2 38 | 1 57 | 0 45 | 13 30 | 1 30 | 1 37 | 27 25 | | | n.a. |
| T 3 | 23 19 | 27 2 | 4 49 | 22 40 | 1 18 | 23 46 | 1 15 | 9 20 | 0 35 | 24 0 | 0 19 | 20 43 | 1 12 | 20 37 | 0 38 | 2 39 | 1 57 | 0 45 | 13 30 | 1 25 | 1 36 | 27 26 | | | n.a. |
| F 4 | 23 14 | 23 33 | 4 18 | 22 13 | 1 10 | 23 37 | 1 16 | 9 3 | 0 34 | 24 0 | 0 19 | 20 42 | 1 12 | 20 37 | 0 38 | 2 39 | 1 57 | 0 45 | 13 30 | 1 21 | 1 35 | 27 27 | | | n.a. |
| S 5 | 23 8 | 18 40 | 3 31 | 21 45 | 1 1 | 23 27 | 1 18 | 8 46 | 0 33 | 24 0 | 0 19 | 20 40 | 1 12 | 20 36 | 0 38 | 2 39 | 1 57 | 0 44 | 13 29 | 1 17 | 1 33 | 27 28 | | | n.a. |
| S 6 | 23 2 | 12 55 | 2 32 | 21 16 | 0 50 | 23 17 | 1 19 | 8 28 | 0 32 | 24 0 | 0 19 | 20 38 | 1 12 | 20 35 | 0 38 | 2 39 | 1 57 | 0 44 | 13 29 | 1 15 | 1 32 | 27 29 | | | n.a. |
| M 7 | 22 56 | 6 45 | 1 27 | 20 45 | 0 39 | 23 6 | 1 20 | 8 11 | 0 31 | 24 0 | 0 19 | 20 37 | 1 12 | 20 34 | 0 38 | 2 39 | 1 57 | 0 44 | 13 29 | 1 14 | 1 31 | 27 30 | | | n.a. |
| T 8 | 22 49 | 0 31 | 0 19 | 20 14 | 0 28 | 22 54 | 1 21 | 7 54 | 0 30 | 24 0 | 0 20 | 20 35 | 1 12 | 20 33 | 0 38 | 2 40 | 1 57 | 0 44 | 13 28 | 1 14 | 1 30 | 27 32 | | | n.a. |
| W 9 | 22 42 | 5 s33 | 0 s48 | 19 43 | 0 15 | 22 41 | 1 22 | 7 37 | 0 29 | 24 0 | 0 20 | 20 33 | 1 12 | 20 33 | 0 38 | 2 40 | 1 57 | 0 44 | 13 28 | 1 14 | 1 28 | 27 33 | | | n.a. |
| T 10 | 22 35 | 11 16 | 1 50 | 19 11 | 0 1 | 22 28 | 1 23 | 7 19 | 0 28 | 23 59 | 0 20 | 20 32 | 1 12 | 20 32 | 0 38 | 2 40 | 1 57 | 0 43 | 13 28 | 1 14 | 1 27 | 27 34 | | | n.a. |
| F 11 | 22 26 | 16 26 | 2 47 | 18 40 | 0n13 | 22 14 | 1 23 | 7 2 | 0 27 | 23 59 | 0 20 | 20 30 | 1 12 | 20 31 | 0 38 | 2 40 | 1 57 | 0 43 | 13 28 | 1 13 | 1 26 | 27 35 | | | n.a. |
| S 12 | 22 18 | 20 56 | 3 35 | 18 9 | 0 28 | 21 59 | 1 24 | 6 44 | 0 26 | 23 59 | 0 20 | 20 28 | 1 12 | 20 30 | 0 38 | 2 41 | 1 57 | 0 43 | 13 27 | 1 11 | 1 25 | 27 36 | | | n.a. |
| S 13 | 22 9 | 24 33 | 4 14 | 17 39 | 0 44 | 21 44 | 1 25 | 6 27 | 0 25 | 23 59 | 0 20 | 20 27 | 1 12 | 20 30 | 0 38 | 2 41 | 1 57 | 0 43 | 13 27 | 1 9 | 1 23 | 27 37 | | | n.a. |
| M14 | 22 0 | 27 8 | 4 42 | 17 11 | 1 0 | 21 28 | 1 26 | 6 9 | 0 24 | 23 59 | 0 20 | 20 25 | 1 12 | 20 29 | 0 38 | 2 41 | 1 57 | 0 42 | 13 27 | 1 5 | 1 22 | 27 38 | | | n.a. |
| T 15 | 21 50 | 28 31 | 4 58 | 16 44 | 1 16 | 21 11 | 1 26 | 5 52 | 0 23 | 23 59 | 0 20 | 20 23 | 1 12 | 20 28 | 0 38 | 2 42 | 1 56 | 0 42 | 13 26 | 1 0 | 1 21 | 27 39 | | | n.a. |
| W16 | 21 40 | 28 35 | 5 0 | 16 20 | 1 33 | 20 54 | 1 27 | 5 34 | 0 22 | 23 59 | 0 21 | 20 21 | 1 12 | 20 27 | 0 38 | 2 42 | 1 56 | 0 42 | 13 26 | 0 55 | 1 19 | 27 40 | | | n.a. |
| T 17 | 21 29 | 27 17 | 4 50 | 15 58 | 1 50 | 20 36 | 1 27 | 5 17 | 0 21 | 23 59 | 0 21 | 20 20 | 1 12 | 20 26 | 0 38 | 2 42 | 1 56 | 0 42 | 13 26 | 0 50 | 1 18 | 27 42 | | | n.a. |
| F 18 | 21 18 | 24 41 | 4 26 | 15 39 | 2 6 | 20 17 | 1 27 | 4 59 | 0 20 | 23 59 | 0 21 | 20 18 | 1 12 | 20 26 | 0 38 | 2 43 | 1 56 | 0 41 | 13 25 | 0 45 | 1 17 | 27 43 | | | n.a. |
| S 19 | 21 7 | 20 55 | 3 49 | 15 23 | 2 23 | 19 58 | 1 28 | 4 42 | 0 20 | 23 59 | 0 21 | 20 16 | 1 12 | 20 25 | 0 38 | 2 43 | 1 56 | 0 41 | 13 25 | 0 40 | 1 16 | 27 44 | | | n.a. |
| S 20 | 20 55 | 16 11 | 3 1 | 15 11 | 2 38 | 19 39 | 1 28 | 4 24 | 0 19 | 23 59 | 0 21 | 20 14 | 1 12 | 20 24 | 0 38 | 2 44 | 1 56 | 0 41 | 13 25 | 0 37 | 1 14 | 27 45 | | | n.a. |
| M21 | 20 43 | 10 42 | 2 3 | 15 2 | 2 53 | 19 19 | 1 28 | 4 6 | 0 18 | 23 58 | 0 21 | 20 12 | 1 12 | 20 23 | 0 38 | 2 44 | 1 56 | 0 40 | 13 24 | 0 35 | 1 13 | 27 46 | | | n.a. |
| T 22 | 20 30 | 4 42 | 0 58 | 14 57 | 3 7 | 18 58 | 1 28 | 3 49 | 0 17 | 23 58 | 0 21 | 20 11 | 1 13 | 20 22 | 0 38 | 2 44 | 1 56 | 0 40 | 13 24 | 0 34 | 1 12 | 27 47 | | | n.a. |
| W23 | 20 17 | 1n36 | 0n12 | 14 56 | 3 19 | 18 37 | 1 28 | 3 31 | 0 16 | 23 58 | 0 21 | 20 9 | 1 13 | 20 22 | 0 38 | 2 45 | 1 56 | 0 40 | 13 24 | 0 33 | 1 11 | 27 48 | | | n.a. |
| T 24 | 20 4 | 7 57 | 1 22 | 14 58 | 3 29 | 18 15 | 1 28 | 3 14 | 0 15 | 23 58 | 0 21 | 20 7 | 1 13 | 20 21 | 0 38 | 2 45 | 1 56 | 0 39 | 13 23 | 0 34 | 1 9 | 27 49 | | | n.a. |
| F 25 | 19 50 | 14 5 | 2 29 | 15 3 | 3 38 | 17 53 | 1 28 | 2 56 | 0 14 | 23 58 | 0 21 | 20 5 | 1 13 | 20 20 | 0 38 | 2 46 | 1 56 | 0 39 | 13 23 | 0 34 | 1 8 | 27 50 | | | n.a. |
| S 26 | 19 36 | 19 40 | 3 29 | 15 12 | 3 44 | 17 30 | 1 28 | 2 38 | 0 14 | 23 58 | 0 22 | 20 3 | 1 13 | 20 19 | 0 38 | 2 46 | 1 56 | 0 39 | 13 23 | 0 34 | 1 7 | 27 51 | | | n.a. |
| S 27 | 19 22 | 24 16 | 4 17 | 15 23 | 3 48 | 17 7 | 1 28 | 2 21 | 0 13 | 23 58 | 0 22 | 20 2 | 1 13 | 20 18 | 0 38 | 2 47 | 1 56 | 0 38 | 13 23 | 0 33 | 1 5 | 27 52 | | | n.a. |
| M28 | 19 7 | 27 26 | 4 50 | 15 36 | 3 50 | 16 43 | 1 28 | 2 3 | 0 12 | 23 58 | 0 22 | 20 0 | 1 13 | 20 18 | 0 38 | 2 47 | 1 56 | 0 38 | 13 22 | 0 31 | 1 4 | 27 53 | | | n.a. |
| T 29 | 18 52 | 28 46 | 5 5 | 15 52 | 3 50 | 16 19 | 1 27 | 1 45 | 0 11 | 23 58 | 0 22 | 19 58 | 1 13 | 20 17 | 0 38 | 2 48 | 1 56 | 0 37 | 13 22 | 0 28 | 1 3 | 27 54 | | | n.a. |
| W30 | 18 37 | 28 2 | 4 59 | 16 8 | 3 48 | 15 55 | 1 27 | 1 28 | 0 10 | 23 58 | 0 22 | 19 56 | 1 13 | 20 16 | 0 38 | 2 48 | 1 56 | 0 37 | 13 22 | 0 25 | 1 2 | 27 55 | | | n.a. |
| T 31 | 18 s21 | 25n19 | 4n33 | 16 s26 | 3n44 | 15 s30 | 1 s27 | 1 s10 | 0 s 9 | 23n57 | 0n22 | 19 s54 | 1 s13 | 20 s15 | 0 s38 | 2n49 | 1 s55 | 0 s37 | 13 s21 | 0n21 | 1n 0 | 27 s56 | | | n.a. |

Julian Day Number = 1685628.5, Delta T = 03h13m10s
Ecliptic obliquity = 23°42'33, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°25'06, Lahiri = - 5°18'05 Julian Calendar 1 Jan. 98 BCE == Greg. Calendar 30 Dec. 099 BCE

The year -97 astronomical counting style corresponds to year 098 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 98 BCE
# geocentric

## FEBRUARY 98 BCE (-97) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 8 30 49 | 9♒28'11 | 12♌20 | 0°R28 | 23♒52 | 28♓ 9 | 24°R23 | 7♒ 8 | 3♒22 | 11♈29 | 0♉53 | 0°R45 | 2♈27 | 16♐33 | n.a. | F 1 |
| S 2 | 8 34 46 | 10°28'16 | 26°42 | 29♋35 | 25° 6 | 28°51 | 24♊19 | 7°15 | 3°25 | 11°30 | 0°53 | 0♈39 | 2°24 | 16°40 | n.a. | S 2 |
| S 3 | 8 38 42 | 11°28'20 | 10♍42 | 28°48 | 26°21 | 29°33 | 24°16 | 7°23 | 3°29 | 11°31 | 0°54 | 0°35 | 2°21 | 16°47 | n.a. | S 3 |
| M 4 | 8 42 39 | 12°28'21 | 24°15 | 28° 7 | 27°35 | 0♈15 | 24°12 | 7°30 | 3°32 | 11°33 | 0°54 | 0°D33 | 2°17 | 16°53 | n.a. | M 4 |
| T 5 | 8 46 35 | 13°28'21 | 7♎22 | 27°33 | 28°50 | 0°57 | 24° 9 | 7°37 | 3°36 | 11°34 | 0°55 | 0°33 | 2°14 | 17° 0 | n.a. | T 5 |
| W 6 | 8 50 32 | 14°28'19 | 20° 6 | 27° 5 | 0♓ 4 | 1°39 | 24° 6 | 7°45 | 3°39 | 11°35 | 0°55 | 0°34 | 2°11 | 17° 7 | n.a. | W 6 |
| T 7 | 8 54 28 | 15°28'16 | 2♏29 | 26°44 | 1°19 | 2°20 | 24° 3 | 7°52 | 3°42 | 11°37 | 0°55 | 0°35 | 2° 8 | 17°13 | n.a. | T 7 |
| F 8 | 8 58 25 | 16°28'10 | 14°37 | 26°30 | 2°33 | 3° 2 | 24° 1 | 7°59 | 3°46 | 11°38 | 0°56 | 0°R36 | 2° 5 | 17°20 | n.a. | F 8 |
| S 9 | 9 2 22 | 17°28'03 | 26°34 | 26°22 | 3°48 | 3°44 | 23°58 | 8° 7 | 3°49 | 11°40 | 0°56 | 0°36 | 2° 1 | 17°27 | n.a. | S 9 |
| S 10 | 9 6 18 | 18°27'54 | 8♐26 | 26°D21 | 5° 2 | 4°25 | 23°56 | 8°14 | 3°53 | 11°41 | 0°57 | 0°34 | 1°58 | 17°34 | n.a. | S 10 |
| M11 | 9 10 15 | 19°27'44 | 20°18 | 26°26 | 6°16 | 5° 7 | 23°54 | 8°21 | 3°56 | 11°43 | 0°57 | 0°29 | 1°55 | 17°40 | n.a. | M11 |
| T 12 | 9 14 11 | 20°27'31 | 2♑12 | 26°37 | 7°31 | 5°49 | 23°52 | 8°28 | 3°59 | 11°44 | 0°58 | 0°24 | 1°52 | 17°47 | n.a. | T 12 |
| W13 | 9 18 8 | 21°27'17 | 14°14 | 26°53 | 8°45 | 6°30 | 23°51 | 8°36 | 4° 3 | 11°46 | 0°58 | 0°17 | 1°49 | 17°54 | n.a. | W13 |
| T 14 | 9 22 4 | 22°27'00 | 26°25 | 27°15 | 9°59 | 7°12 | 23°49 | 8°43 | 4° 6 | 11°47 | 0°59 | 0°10 | 1°46 | 18° 1 | n.a. | T 14 |
| F 15 | 9 26 1 | 23°26'42 | 8♒48 | 27°42 | 11°14 | 7°53 | 23°48 | 8°50 | 4° 9 | 11°49 | 1° 0 | 0° 3 | 1°42 | 18° 7 | n.a. | F 15 |
| S 16 | 9 29 57 | 24°26'22 | 21°23 | 28°13 | 12°28 | 8°35 | 23°47 | 8°57 | 4°13 | 11°51 | 1° 0 | 29♓57 | 1°39 | 18°14 | n.a. | S 16 |
| S 17 | 9 33 54 | 25°25'59 | 4♓11 | 28°48 | 13°42 | 9°16 | 23°46 | 9° 5 | 4°16 | 11°52 | 1° 1 | 29°53 | 1°36 | 18°21 | n.a. | S 17 |
| M18 | 9 37 51 | 26°25'34 | 17°11 | 29°28 | 14°56 | 9°58 | 23°45 | 9°12 | 4°19 | 11°54 | 1° 2 | 29°50 | 1°33 | 18°27 | n.a. | M18 |
| T 19 | 9 41 47 | 27°25'07 | 0♈24 | 0♒11 | 16°10 | 10°39 | 23°45 | 9°19 | 4°23 | 11°56 | 1° 2 | 29°D50 | 1°30 | 18°34 | n.a. | T 19 |
| W20 | 9 45 44 | 28°24'38 | 13°48 | 0°58 | 17°24 | 11°20 | 23°44 | 9°26 | 4°26 | 11°57 | 1° 3 | 29°50 | 1°26 | 18°41 | n.a. | W20 |
| T 21 | 9 49 40 | 29°24'06 | 27°24 | 1°49 | 18°38 | 12° 2 | 23°D44 | 9°33 | 4°29 | 11°59 | 1° 4 | 29°52 | 1°23 | 18°48 | n.a. | T 21 |
| F 22 | 9 53 37 | 0♓23'32 | 11♉12 | 2°42 | 19°52 | 12°43 | 23°44 | 9°40 | 4°32 | 12° 1 | 1° 4 | 29°53 | 1°20 | 18°54 | n.a. | F 22 |
| S 23 | 9 57 33 | 1°22'56 | 25°10 | 3°39 | 21° 6 | 13°24 | 23°45 | 9°47 | 4°35 | 12° 3 | 1° 5 | 29°R54 | 1°17 | 19° 1 | n.a. | S 23 |
| S 24 | 10 1 30 | 2°22'17 | 9♊19 | 4°38 | 22°20 | 14° 5 | 23°45 | 9°54 | 4°39 | 12° 5 | 1° 6 | 29°54 | 1°14 | 19° 8 | n.a. | S 24 |
| M25 | 10 5 26 | 3°21'36 | 23°36 | 5°40 | 23°34 | 14°47 | 23°46 | 10° 1 | 4°42 | 12° 6 | 1° 7 | 29°53 | 1°11 | 19°14 | n.a. | M25 |
| T 26 | 10 9 23 | 4°20'52 | 7♋59 | 6°44 | 24°48 | 15°28 | 23°47 | 10° 8 | 4°45 | 12° 8 | 1° 7 | 29°51 | 1° 7 | 19°21 | n.a. | T 26 |
| W27 | 10 13 19 | 5°20'06 | 22°23 | 7°51 | 26° 2 | 16° 9 | 23°48 | 10°15 | 4°48 | 12°10 | 1° 8 | 29°47 | 1° 4 | 19°28 | n.a. | W27 |
| T 28 | 10 17 16 | 6♓19'18 | 6♌45 | 9♒ 1 | 27♓16 | 16♈50 | 23♊49 | 10♒22 | 4♒51 | 12♈12 | 1♉ 9 | 29♓44 | 1♈ 1 | 19♐35 | n.a. | T 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 18s 5 | 20n57 | 3n49 | 16s45 | 3n37 | 15s 4 | 1s26 | 0s52 | 0s 9 | 23n57 | 0n22 | 19s53 | 1s13 | 20s14 | 0s38 | 2n49 | 1s55 | 0s36 | 13s21 | 0n18 | 0n59 | 27s57 | | n.a. |
| S 2 | 17 49 | 15 26 | 2 52 | 17 3 | 3 29 | 14 38 | 1 25 | 0 35 | 0 8 | 23 57 | 0 22 | 19 51 | 1 13 | 20 14 | 0 38 | 2 50 | 1 55 | 0 36 | 13 21 | 0 16 | 0 58 | 27 58 | | n.a. |
| S 3 | 17 32 | 9 15 | 1 45 | 17 22 | 3 20 | 14 12 | 1 25 | 0 17 | 0 7 | 23 57 | 0 22 | 19 49 | 1 13 | 20 13 | 0 38 | 2 50 | 1 55 | 0 36 | 13 20 | 0 14 | 0 56 | 27 59 | | n.a. |
| M 4 | 17 15 | 2 50 | 0 34 | 17 40 | 3 10 | 13 46 | 1 24 | 0n 0 | 0 6 | 23 57 | 0 22 | 19 47 | 1 13 | 20 12 | 0 38 | 2 51 | 1 55 | 0 35 | 13 20 | 0 13 | 0 55 | 27 59 | | n.a. |
| T 5 | 16 58 | 3s31 | 0s37 | 17 59 | 2 58 | 13 19 | 1 23 | 0 18 | 0 5 | 23 57 | 0 22 | 19 45 | 1 13 | 20 11 | 0 38 | 2 52 | 1 55 | 0 35 | 13 20 | 0 13 | 0 54 | 28 0 | | n.a. |
| W 6 | 16 40 | 9 32 | 1 44 | 18 16 | 2 46 | 12 51 | 1 22 | 0 36 | 0 5 | 23 57 | 0 22 | 19 43 | 1 14 | 20 10 | 0 38 | 2 52 | 1 55 | 0 34 | 13 19 | 0 14 | 0 53 | 28 1 | | n.a. |
| T 7 | 16 23 | 15 2 | 2 44 | 18 32 | 2 33 | 12 24 | 1 21 | 0 53 | 0 4 | 23 57 | 0 22 | 19 42 | 1 14 | 20 10 | 0 38 | 2 53 | 1 55 | 0 34 | 13 19 | 0 14 | 0 51 | 28 2 | | n.a. |
| F 8 | 16 5 | 19 50 | 3 35 | 18 48 | 2 20 | 11 56 | 1 21 | 1 11 | 0 3 | 23 57 | 0 23 | 19 40 | 1 14 | 20 9 | 0 38 | 2 53 | 1 55 | 0 33 | 13 19 | 0 15 | 0 50 | 28 3 | | n.a. |
| S 9 | 15 46 | 23 46 | 4 17 | 19 3 | 2 6 | 11 28 | 1 19 | 1 28 | 0 2 | 23 57 | 0 23 | 19 38 | 1 14 | 20 8 | 0 38 | 2 54 | 1 55 | 0 33 | 13 19 | 0 14 | 0 49 | 28 4 | | n.a. |
| S 10 | 15 28 | 26 40 | 4 47 | 19 16 | 1 53 | 10 59 | 1 18 | 1 45 | 0 1 | 23 57 | 0 23 | 19 36 | 1 14 | 20 7 | 0 38 | 2 55 | 1 55 | 0 33 | 13 18 | 0 13 | 0 48 | 28 5 | | n.a. |
| M11 | 15 9 | 28 24 | 5 4 | 19 29 | 1 39 | 10 30 | 1 17 | 2 3 | 0 1 | 23 57 | 0 23 | 19 34 | 1 14 | 20 6 | 0 38 | 2 55 | 1 55 | 0 32 | 13 18 | 0 12 | 0 46 | 28 6 | | n.a. |
| T 12 | 14 50 | 28 50 | 5 9 | 19 40 | 1 26 | 10 1 | 1 16 | 2 20 | 0n 0 | 23 57 | 0 23 | 19 32 | 1 14 | 20 6 | 0 38 | 2 56 | 1 55 | 0 32 | 13 18 | 0 10 | 0 45 | 28 7 | | n.a. |
| W13 | 14 31 | 27 55 | 5 0 | 19 50 | 1 12 | 9 32 | 1 15 | 2 37 | 0 1 | 23 57 | 0 23 | 19 30 | 1 14 | 20 5 | 0 38 | 2 57 | 1 55 | 0 31 | 13 17 | 0 7 | 0 44 | 28 7 | | n.a. |
| T 14 | 14 11 | 25 39 | 4 38 | 19 59 | 0 59 | 9 2 | 1 13 | 2 55 | 0 2 | 23 57 | 0 23 | 19 29 | 1 14 | 20 4 | 0 38 | 2 57 | 1 55 | 0 31 | 13 17 | 0 4 | 0 42 | 28 8 | | n.a. |
| F 15 | 13 51 | 22 9 | 4 2 | 20 6 | 0 46 | 8 32 | 1 12 | 3 12 | 0 2 | 23 57 | 0 23 | 19 27 | 1 14 | 20 3 | 0 38 | 2 58 | 1 55 | 0 30 | 13 17 | 0 1 | 0 41 | 28 9 | | n.a. |
| S 16 | 13 31 | 17 35 | 3 14 | 20 12 | 0 34 | 8 2 | 1 10 | 3 29 | 0 3 | 23 57 | 0 23 | 19 25 | 1 14 | 20 2 | 0 38 | 2 59 | 1 55 | 0 30 | 13 16 | 0s 1 | 0 40 | 28 10 | | n.a. |
| S 17 | 13 11 | 12 11 | 2 15 | 20 17 | 0 21 | 7 32 | 1 9 | 3 46 | 0 4 | 23 57 | 0 23 | 19 23 | 1 15 | 20 2 | 0 38 | 2 59 | 1 55 | 0 29 | 13 16 | 0 3 | 0 39 | 28 11 | | n.a. |
| M18 | 12 51 | 6 10 | 1 8 | 20 20 | 0 9 | 7 2 | 1 7 | 4 4 | 0 5 | 23 57 | 0 23 | 19 21 | 1 15 | 20 1 | 0 38 | 3 0 | 1 55 | 0 29 | 13 16 | 0 4 | 0 37 | 28 12 | | n.a. |
| T 19 | 12 30 | 0n12 | 0n 3 | 20 22 | 0s 2 | 6 31 | 1 6 | 4 21 | 0 5 | 23 57 | 0 23 | 19 19 | 1 15 | 20 0 | 0 38 | 3 1 | 1 54 | 0 28 | 13 16 | 0 4 | 0 36 | 28 12 | | n.a. |
| W20 | 12 10 | 6 40 | 1 16 | 20 23 | 0 13 | 6 0 | 1 4 | 4 38 | 0 6 | 23 57 | 0 23 | 19 18 | 1 15 | 19 59 | 0 38 | 3 2 | 1 54 | 0 28 | 13 15 | 0 4 | 0 35 | 28 13 | | n.a. |
| T 21 | 11 49 | 12 55 | 2 25 | 20 22 | 0 24 | 5 30 | 1 2 | 4 55 | 0 7 | 23 57 | 0 23 | 19 16 | 1 15 | 19 59 | 0 38 | 3 2 | 1 54 | 0 27 | 13 15 | 0 3 | 0 33 | 28 14 | | n.a. |
| F 22 | 11 28 | 18 38 | 3 27 | 20 20 | 0 34 | 4 59 | 1 0 | 5 12 | 0 7 | 23 57 | 0 23 | 19 14 | 1 15 | 19 58 | 0 38 | 3 3 | 1 54 | 0 27 | 13 15 | 0 3 | 0 32 | 28 15 | | n.a. |
| S 23 | 11 6 | 23 26 | 4 18 | 20 16 | 0 44 | 4 27 | 0 58 | 5 28 | 0 8 | 23 57 | 0 24 | 19 12 | 1 15 | 19 57 | 0 38 | 3 4 | 1 54 | 0 26 | 13 15 | 0 2 | 0 31 | 28 16 | | n.a. |
| S 24 | 10 45 | 26 56 | 4 53 | 20 11 | 0 54 | 3 56 | 0 56 | 5 45 | 0 9 | 23 57 | 0 24 | 19 10 | 1 15 | 19 56 | 0 38 | 3 5 | 1 54 | 0 26 | 13 14 | 0 2 | 0 30 | 28 16 | | n.a. |
| M25 | 10 23 | 28 44 | 5 11 | 20 5 | 1 2 | 3 25 | 0 54 | 6 2 | 0 10 | 23 57 | 0 24 | 19 9 | 1 15 | 19 56 | 0 38 | 3 5 | 1 54 | 0 25 | 13 14 | 0 3 | 0 28 | 28 17 | | n.a. |
| T 26 | 10 1 | 28 38 | 5 10 | 19 56 | 1 11 | 2 53 | 0 52 | 6 19 | 0 10 | 23 57 | 0 24 | 19 7 | 1 15 | 19 55 | 0 38 | 3 6 | 1 54 | 0 25 | 13 14 | 0 4 | 0 27 | 28 18 | | n.a. |
| W27 | 9 40 | 26 35 | 4 49 | 19 47 | 1 19 | 2 22 | 0 50 | 6 35 | 0 11 | 23 57 | 0 24 | 19 5 | 1 16 | 19 54 | 0 38 | 3 7 | 1 54 | 0 24 | 13 13 | 0 5 | 0 26 | 28 19 | | n.a. |
| T 28 | 9s18 | 22n50 | 4n11 | 19s36 | 1s27 | 1s50 | 0s48 | 6n52 | 0n12 | 23n58 | 0n24 | 19s 3 | 1s16 | 19s53 | 0s38 | 3n 8 | 1s54 | 0s24 | 13s13 | 0s 6 | 0n25 | 28s19 | | n.a. |

Julian Day Number = 1685659.5, Delta T = 03h13m09s
Ecliptic obliquity = 23°42'34, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°25'01, Lahiri = - 5°18'01 Julian Calendar 1 Feb. 98 BCE == Greg. Calendar 30 Jan. 098 BCE

The year -97 astronomical counting style corresponds to year 098 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 98 BCE
# geocentric

## MARCH 98 BCE (-97) JC

**00:00 UT**

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 10 21 13 | 7♓18'27 | 20♌58 | 10♒12 | 28♓30 | 17♈31 | 23♊50 | 10♒29 | 4♒54 | 12♈14 | 1♉10 | 29°R41 | 0♈58 | 19♐41 | n.a. | F 1 |
| S 2 | 10 25 9 | 8°17'34 | 4♍59 | 11°26 | 29°43 | 18°12 | 23°52 | 10°36 | 4°57 | 12°16 | 1°11 | 29♓38 | 0°55 | 19°48 | n.a. | S 2 |
| S 3 | 10 29 6 | 9°16'39 | 18°42 | 12°41 | 0♈57 | 18°53 | 23°54 | 10°42 | 5° 0 | 12°18 | 1°12 | 29°37 | 0°52 | 19°55 | n.a. | S 3 |
| M 4 | 10 33 2 | 10°15'41 | 2♎ 6 | 13°59 | 2°11 | 19°34 | 23°56 | 10°49 | 5° 3 | 12°20 | 1°13 | 29°D37 | 0°48 | 20° 1 | n.a. | M 4 |
| T 5 | 10 36 59 | 11°14'42 | 15° 9 | 15°18 | 3°24 | 20°15 | 23°58 | 10°56 | 5° 6 | 12°22 | 1°14 | 29°37 | 0°45 | 20° 8 | n.a. | T 5 |
| W 6 | 10 40 55 | 12°13'40 | 27°52 | 16°39 | 4°38 | 20°55 | 24° 0 | 11° 3 | 5° 9 | 12°24 | 1°14 | 29°39 | 0°42 | 20°15 | n.a. | W 6 |
| T 7 | 10 44 52 | 13°12'37 | 10♏17 | 18° 3 | 5°51 | 21°36 | 24° 3 | 11° 9 | 5°12 | 12°26 | 1°15 | 29°40 | 0°39 | 20°22 | n.a. | T 7 |
| F 8 | 10 48 48 | 14°11'32 | 22°28 | 19°27 | 7° 5 | 22°17 | 24° 5 | 11°16 | 5°15 | 12°28 | 1°16 | 29°41 | 0°36 | 20°28 | n.a. | F 8 |
| S 9 | 10 52 45 | 15°10'25 | 4♐28 | 20°54 | 8°18 | 22°58 | 24° 8 | 11°22 | 5°18 | 12°30 | 1°17 | 29°42 | 0°32 | 20°35 | n.a. | S 9 |
| S 10 | 10 56 42 | 16° 9'17 | 16°22 | 22°22 | 9°32 | 23°38 | 24°11 | 11°29 | 5°20 | 12°32 | 1°18 | 29°R42 | 0°29 | 20°42 | n.a. | S 10 |
| M11 | 11 0 38 | 17° 8'06 | 28°15 | 23°52 | 10°45 | 24°19 | 24°15 | 11°35 | 5°23 | 12°34 | 1°19 | 29°42 | 0°26 | 20°49 | n.a. | M11 |
| T 12 | 11 4 35 | 18° 6'54 | 10♑11 | 25°23 | 11°59 | 25° 0 | 24°18 | 11°42 | 5°26 | 12°36 | 1°20 | 29°41 | 0°23 | 20°55 | n.a. | T 12 |
| W13 | 11 8 31 | 19° 5'39 | 22°15 | 26°56 | 13°12 | 25°40 | 24°22 | 11°48 | 5°29 | 12°38 | 1°21 | 29°40 | 0°20 | 21° 2 | n.a. | W13 |
| T 14 | 11 12 28 | 20° 4'23 | 4♒31 | 28°31 | 14°25 | 26°21 | 24°25 | 11°55 | 5°31 | 12°40 | 1°23 | 29°39 | 0°17 | 21° 9 | n.a. | T 14 |
| F 15 | 11 16 24 | 21° 3'05 | 17° 1 | 0♓ 7 | 15°38 | 27° 1 | 24°29 | 12° 1 | 5°34 | 12°42 | 1°24 | 29°38 | 0°13 | 21°15 | n.a. | F 15 |
| S 16 | 11 20 21 | 22° 1'45 | 29°47 | 1°45 | 16°52 | 27°42 | 24°33 | 12° 7 | 5°37 | 12°45 | 1°25 | 29°37 | 0°10 | 21°22 | n.a. | S 16 |
| S 17 | 11 24 17 | 23° 0'24 | 12♓51 | 3°25 | 18° 5 | 28°22 | 24°38 | 12°13 | 5°39 | 12°47 | 1°26 | 29°36 | 0° 7 | 21°29 | n.a. | S 17 |
| M18 | 11 28 14 | 23°59'00 | 26°13 | 5° 6 | 19°18 | 29° 3 | 24°42 | 12°20 | 5°42 | 12°49 | 1°27 | 29°D36 | 0° 4 | 21°36 | n.a. | M18 |
| T 19 | 11 32 10 | 24°57'34 | 9♈50 | 6°49 | 20°31 | 29°43 | 24°47 | 12°26 | 5°45 | 12°51 | 1°28 | 29°36 | 0° 1 | 21°42 | n.a. | T 19 |
| W20 | 11 36 7 | 25°56'06 | 23°41 | 8°33 | 21°44 | 0♉24 | 24°51 | 12°32 | 5°47 | 12°53 | 1°29 | 29°36 | 29♓58 | 21°49 | n.a. | W20 |
| T 21 | 11 40 4 | 26°54'36 | 7♉43 | 10°19 | 22°57 | 1° 4 | 24°56 | 12°38 | 5°49 | 12°55 | 1°30 | 29°36 | 29°54 | 21°56 | n.a. | T 21 |
| F 22 | 11 44 0 | 27°53'03 | 21°53 | 12° 6 | 24°10 | 1°44 | 25° 1 | 12°44 | 5°52 | 12°58 | 1°31 | 29°36 | 29°51 | 22° 2 | n.a. | F 22 |
| S 23 | 11 47 57 | 28°51'29 | 6♊ 7 | 13°56 | 25°23 | 2°25 | 25° 7 | 12°49 | 5°54 | 13° 0 | 1°33 | 29°37 | 29°48 | 22° 9 | n.a. | S 23 |
| S 24 | 11 51 53 | 29°49'52 | 20°23 | 15°46 | 26°35 | 3° 5 | 25°12 | 12°55 | 5°57 | 13° 2 | 1°34 | 29°R37 | 29°45 | 22°16 | n.a. | S 24 |
| M25 | 11 55 50 | 0♈48'14 | 4♋36 | 17°39 | 27°48 | 3°45 | 25°18 | 13° 1 | 5°59 | 13° 4 | 1°35 | 29°D37 | 29°42 | 22°23 | n.a. | M25 |
| T 26 | 11 59 46 | 1°46'33 | 18°46 | 19°33 | 29° 1 | 4°25 | 25°23 | 13° 7 | 6° 1 | 13° 6 | 1°36 | 29°37 | 29°38 | 22°29 | n.a. | T 26 |
| W27 | 12 3 43 | 2°44'49 | 2♌50 | 21°29 | 0♉14 | 5° 6 | 25°29 | 13°12 | 6° 4 | 13° 9 | 1°37 | 29°37 | 29°35 | 22°36 | n.a. | W27 |
| T 28 | 12 7 39 | 3°43'04 | 16°45 | 23°26 | 1°26 | 5°46 | 25°35 | 13°18 | 6° 6 | 13°11 | 1°39 | 29°37 | 29°32 | 22°43 | n.a. | T 28 |
| F 29 | 12 11 36 | 4°41'16 | 0♍29 | 25°25 | 2°39 | 6°26 | 25°42 | 13°24 | 6° 8 | 13°13 | 1°40 | 29°38 | 29°29 | 22°50 | n.a. | F 29 |
| S 30 | 12 15 33 | 5°39'27 | 14° 2 | 27°25 | 3°51 | 7° 6 | 25°48 | 13°29 | 6°10 | 13°15 | 1°41 | 29°38 | 29°26 | 22°56 | n.a. | S 30 |
| S 31 | 12 19 29 | 6♈37'35 | 27♍21 | 29♓27 | 5♉ 4 | 7♉46 | 25♊54 | 13♒34 | 6♒12 | 13♈18 | 1♉42 | 29°R38 | 29♓23 | 23♐ 3 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 8s55 | 17n46 | 3n17 | 19s23 | 1s34 | 1s19 | 0s46 | 7n 8 | 0n12 | 23n58 | 0n24 | 19s 1 | 1s16 | 19s53 | 0s39 | 3n 8 | 1s54 | 0s23 | 13s13 | 0s 8 | 0n23 | 28s20 | | n.a. |
| S 2 | 8 33 | 11 50 | 2 11 | 19 9 | 1 40 | 0 47 | 0 44 | 7 25 | 0 13 | 23 58 | 0 24 | 19 0 | 1 16 | 19 52 | 0 39 | 3 9 | 1 54 | 0 23 | 13 13 | 0 9 | 0 22 | 28 21 | | n.a. |
| S 3 | 8 11 | 5 26 | 1 0 | 18 54 | 1 47 | 0 15 | 0 42 | 7 41 | 0 14 | 23 58 | 0 24 | 18 58 | 1 16 | 19 51 | 0 39 | 3 10 | 1 54 | 0 22 | 13 12 | 0 9 | 0 21 | 28 21 | | n.a. |
| M 4 | 7 48 | 1s 3 | 0s14 | 18 36 | 1 52 | 0n17 | 0 39 | 7 57 | 0 14 | 23 58 | 0 24 | 18 56 | 1 16 | 19 51 | 0 39 | 3 11 | 1 54 | 0 22 | 13 12 | 0 9 | 0 19 | 28 22 | | n.a. |
| T 5 | 7 26 | 7 20 | 1 25 | 18 18 | 1 58 | 0 48 | 0 37 | 8 14 | 0 15 | 23 58 | 0 24 | 18 54 | 1 16 | 19 50 | 0 39 | 3 12 | 1 54 | 0 21 | 13 12 | 0 9 | 0 18 | 28 23 | | n.a. |
| W 6 | 7 3 | 13 9 | 2 30 | 17 58 | 2 2 | 1 20 | 0 35 | 8 30 | 0 16 | 23 58 | 0 24 | 18 53 | 1 16 | 19 49 | 0 39 | 3 12 | 1 54 | 0 21 | 13 12 | 0 9 | 0 17 | 28 24 | | n.a. |
| T 7 | 6 40 | 18 19 | 3 26 | 17 36 | 2 7 | 1 52 | 0 32 | 8 46 | 0 16 | 23 59 | 0 24 | 18 51 | 1 17 | 19 48 | 0 39 | 3 13 | 1 54 | 0 20 | 13 11 | 0 8 | 0 16 | 28 24 | | n.a. |
| F 8 | 6 17 | 22 39 | 4 12 | 17 13 | 2 10 | 2 23 | 0 30 | 9 2 | 0 17 | 23 59 | 0 24 | 18 49 | 1 17 | 19 48 | 0 39 | 3 14 | 1 54 | 0 19 | 13 11 | 0 8 | 0 14 | 28 25 | | n.a. |
| S 9 | 5 54 | 25 57 | 4 46 | 16 48 | 2 14 | 2 55 | 0 27 | 9 18 | 0 17 | 23 59 | 0 24 | 18 47 | 1 17 | 19 47 | 0 39 | 3 15 | 1 54 | 0 19 | 13 11 | 0 7 | 0 13 | 28 26 | | n.a. |
| S 10 | 5 31 | 28 6 | 5 7 | 16 22 | 2 17 | 3 26 | 0 25 | 9 34 | 0 18 | 23 59 | 0 24 | 18 46 | 1 17 | 19 46 | 0 39 | 3 16 | 1 54 | 0 18 | 13 11 | 0 7 | 0 12 | 28 26 | | n.a. |
| M11 | 5 8 | 28 58 | 5 16 | 15 54 | 2 19 | 3 58 | 0 22 | 9 49 | 0 19 | 23 59 | 0 24 | 18 44 | 1 17 | 19 46 | 0 39 | 3 17 | 1 54 | 0 18 | 13 11 | 0 7 | 0 11 | 28 27 | | n.a. |
| T 12 | 4 45 | 28 29 | 5 11 | 15 24 | 2 21 | 4 29 | 0 20 | 10 5 | 0 19 | 23 59 | 0 24 | 18 42 | 1 17 | 19 45 | 0 39 | 3 17 | 1 54 | 0 17 | 13 10 | 0 8 | 0 9 | 28 27 | | n.a. |
| W13 | 4 22 | 26 39 | 4 52 | 14 54 | 2 22 | 5 0 | 0 17 | 10 20 | 0 20 | 24 0 | 0 24 | 18 41 | 1 17 | 19 44 | 0 39 | 3 18 | 1 54 | 0 17 | 13 10 | 0 8 | 0 8 | 28 28 | | n.a. |
| T 14 | 3 58 | 23 33 | 4 20 | 14 21 | 2 23 | 5 32 | 0 14 | 10 36 | 0 21 | 24 0 | 0 24 | 18 39 | 1 18 | 19 44 | 0 39 | 3 19 | 1 54 | 0 16 | 13 10 | 0 9 | 0 7 | 28 29 | | n.a. |
| F 15 | 3 35 | 19 19 | 3 34 | 13 47 | 2 23 | 6 3 | 0 12 | 10 51 | 0 21 | 24 0 | 0 24 | 18 37 | 1 18 | 19 43 | 0 39 | 3 20 | 1 54 | 0 16 | 13 10 | 0 9 | 0 5 | 28 29 | | n.a. |
| S 16 | 3 12 | 14 8 | 2 38 | 13 12 | 2 23 | 6 34 | 0 9 | 11 7 | 0 22 | 24 0 | 0 25 | 18 36 | 1 18 | 19 42 | 0 39 | 3 21 | 1 54 | 0 15 | 13 10 | 0 9 | 0 4 | 28 30 | | n.a. |
| S 17 | 2 48 | 8 13 | 1 31 | 12 35 | 2 22 | 7 4 | 0 6 | 11 22 | 0 22 | 24 1 | 0 25 | 18 34 | 1 18 | 19 42 | 0 39 | 3 22 | 1 54 | 0 14 | 13 9 | 0 10 | 0 3 | 28 31 | | n.a. |
| M18 | 2 25 | 1 49 | 0 19 | 11 56 | 2 21 | 7 35 | 0 3 | 11 37 | 0 23 | 24 1 | 0 25 | 18 33 | 1 18 | 19 41 | 0 39 | 3 23 | 1 54 | 0 14 | 13 9 | 0 10 | 0 2 | 28 31 | | n.a. |
| T 19 | 2 1 | 4n48 | 0n56 | 11 16 | 2 20 | 8 5 | 0 1 | 11 52 | 0 24 | 24 1 | 0 25 | 18 31 | 1 18 | 19 41 | 0 39 | 3 23 | 1 54 | 0 13 | 13 9 | 0 10 | 0 0 | 28 32 | | n.a. |
| W20 | 1 38 | 11 18 | 2 10 | 10 34 | 2 17 | 8 36 | 0n 2 | 12 7 | 0 24 | 24 1 | 0 25 | 18 29 | 1 18 | 19 40 | 0 39 | 3 24 | 1 54 | 0 13 | 13 9 | 0 10 | 0s 1 | 28 32 | | n.a. |
| T 21 | 1 15 | 17 19 | 3 16 | 9 51 | 2 15 | 9 6 | 0 5 | 12 22 | 0 25 | 24 1 | 0 25 | 18 28 | 1 19 | 19 39 | 0 39 | 3 25 | 1 54 | 0 12 | 13 9 | 0 10 | 0 2 | 28 33 | | n.a. |
| F 22 | 0 51 | 22 28 | 4 11 | 9 7 | 2 11 | 9 36 | 0 8 | 12 36 | 0 25 | 24 2 | 0 25 | 18 26 | 1 19 | 19 39 | 0 39 | 3 26 | 1 54 | 0 12 | 13 8 | 0 9 | 0 4 | 28 33 | | n.a. |
| S 23 | 0 28 | 26 20 | 4 51 | 8 21 | 2 7 | 10 5 | 0 11 | 12 51 | 0 26 | 24 2 | 0 25 | 18 25 | 1 19 | 19 38 | 0 39 | 3 27 | 1 54 | 0 11 | 13 8 | 0 9 | 0 5 | 28 34 | | n.a. |
| S 24 | 0 4 | 28 33 | 5 13 | 7 33 | 2 3 | 10 35 | 0 13 | 13 6 | 0 26 | 24 2 | 0 25 | 18 23 | 1 19 | 19 38 | 0 39 | 3 28 | 1 53 | 0 11 | 13 8 | 0 9 | 0 6 | 28 34 | | n.a. |
| M25 | 0n19 | 28 53 | 5 16 | 6 45 | 1 58 | 11 4 | 0 16 | 13 20 | 0 27 | 24 2 | 0 25 | 18 22 | 1 19 | 19 37 | 0 39 | 3 29 | 1 53 | 0 10 | 13 8 | 0 9 | 0 7 | 28 35 | | n.a. |
| T 26 | 0 43 | 27 19 | 4 59 | 5 54 | 1 53 | 11 33 | 0 19 | 13 34 | 0 27 | 24 3 | 0 25 | 18 20 | 1 19 | 19 37 | 0 39 | 3 30 | 1 53 | 0 9 | 13 8 | 0 9 | 0 9 | 28 35 | | n.a. |
| W27 | 1 6 | 24 3 | 4 25 | 5 3 | 1 47 | 12 1 | 0 22 | 13 48 | 0 28 | 24 3 | 0 25 | 18 19 | 1 19 | 19 36 | 0 39 | 3 30 | 1 53 | 0 9 | 13 7 | 0 9 | 0 10 | 28 36 | | n.a. |
| T 28 | 1 30 | 19 25 | 3 36 | 4 10 | 1 40 | 12 30 | 0 25 | 14 2 | 0 29 | 24 3 | 0 25 | 18 17 | 1 20 | 19 36 | 0 39 | 3 31 | 1 53 | 0 8 | 13 7 | 0 9 | 0 11 | 28 36 | | n.a. |
| F 29 | 1 53 | 13 50 | 2 35 | 3 16 | 1 33 | 12 58 | 0 28 | 14 16 | 0 29 | 24 3 | 0 25 | 18 16 | 1 20 | 19 35 | 0 39 | 3 32 | 1 53 | 0 8 | 13 7 | 0 9 | 0 12 | 28 37 | | n.a. |
| S 30 | 2 16 | 7 40 | 1 25 | 2 21 | 1 26 | 13 25 | 0 31 | 14 30 | 0 30 | 24 4 | 0 25 | 18 14 | 1 20 | 19 35 | 0 39 | 3 33 | 1 53 | 0 7 | 13 7 | 0 9 | 0 14 | 28 37 | | n.a. |
| S 31 | 2n40 | 1n15 | 0n13 | 1s24 | 1s18 | 13n53 | 0n33 | 14n44 | 0n30 | 24n 4 | 0n25 | 18s13 | 1s20 | 19s34 | 0s39 | 3n34 | 1s53 | 0s 7 | 13s 7 | 0s 9 | 0s15 | 28s38 | | n.a. |

Julian Day Number = 1685687.5, Delta T = 03h13m08s
Ecliptic obliquity = 23°42'35, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°24'57, Lahiri = - 5°17'57 Julian Calendar 1 March 98 BCE == Greg. Calendar 27 Feb. 098 BCE

The year -97 astronomical counting style corresponds to year 098 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 98 BCE
# geocentric

## APRIL 98 BCE (-97) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 12 23 26 | 7♈35'41 | 10♎26 | 1♈31 | 6♉16 | 8♉26 | 26♊ 1 | 13♒40 | 6♒14 | 13♈20 | 1♉43 | 29°R38 | 29♓19 | 23♐10 | n.a. | M 1 |
| T 2 | 12 27 22 | 8°33'46 | 23°16 | 3°35 | 7°29 | 9° 6 | 26° 8 | 13°45 | 6°16 | 13°22 | 1°45 | 29♓38 | 29°16 | 23°16 | n.a. | T 2 |
| W 3 | 12 31 19 | 9°31'49 | 5♏50 | 5°41 | 8°41 | 9°46 | 26°15 | 13°50 | 6°18 | 13°24 | 1°46 | 29°37 | 29°13 | 23°23 | n.a. | W 3 |
| T 4 | 12 35 15 | 10°29'51 | 18°12 | 7°49 | 9°53 | 10°26 | 26°22 | 13°55 | 6°20 | 13°27 | 1°47 | 29°35 | 29°10 | 23°30 | n.a. | T 4 |
| F 5 | 12 39 12 | 11°27'51 | 0♐21 | 9°57 | 11° 5 | 11° 6 | 26°29 | 14° 0 | 6°22 | 13°29 | 1°49 | 29°33 | 29° 7 | 23°37 | n.a. | F 5 |
| S 6 | 12 43 8 | 12°25'49 | 12°21 | 12° 6 | 12°17 | 11°45 | 26°36 | 14° 5 | 6°24 | 13°31 | 1°50 | 29°32 | 29° 3 | 23°43 | n.a. | S 6 |
| S 7 | 12 47 5 | 13°23'46 | 24°16 | 14°15 | 13°30 | 12°25 | 26°43 | 14°10 | 6°26 | 13°33 | 1°51 | 29°31 | 29° 0 | 23°50 | n.a. | S 7 |
| M 8 | 12 51 2 | 14°21'42 | 6♑ 9 | 16°25 | 14°42 | 13° 5 | 26°51 | 14°15 | 6°28 | 13°36 | 1°52 | 29°30 | 28°57 | 23°57 | n.a. | M 8 |
| T 9 | 12 54 58 | 15°19'36 | 18° 5 | 18°35 | 15°54 | 13°45 | 26°59 | 14°20 | 6°29 | 13°38 | 1°54 | 29°D30 | 28°54 | 24° 4 | n.a. | T 9 |
| W10 | 12 58 55 | 16°17'29 | 0♒ 9 | 20°45 | 17° 6 | 14°25 | 27° 6 | 14°25 | 6°31 | 13°40 | 1°55 | 29°30 | 28°51 | 24°10 | n.a. | W10 |
| T 11 | 13 2 51 | 17°15'20 | 12°25 | 22°55 | 18°17 | 15° 4 | 27°14 | 14°29 | 6°33 | 13°42 | 1°56 | 29°31 | 28°48 | 24°17 | n.a. | T 11 |
| F 12 | 13 6 48 | 18°13'10 | 24°57 | 25° 4 | 19°29 | 15°44 | 27°22 | 14°34 | 6°34 | 13°45 | 1°58 | 29°33 | 28°44 | 24°24 | n.a. | F 12 |
| S 13 | 13 10 44 | 19°10'59 | 7♓48 | 27°11 | 20°41 | 16°24 | 27°31 | 14°39 | 6°36 | 13°47 | 1°59 | 29°34 | 28°41 | 24°30 | n.a. | S 13 |
| S 14 | 13 14 41 | 20° 8'46 | 21° 2 | 29°18 | 21°53 | 17° 3 | 27°39 | 14°43 | 6°37 | 13°49 | 2° 0 | 29°35 | 28°38 | 24°37 | n.a. | S 14 |
| M15 | 13 18 37 | 21° 6'32 | 4♈38 | 1♉23 | 23° 4 | 17°43 | 27°47 | 14°47 | 6°39 | 13°51 | 2° 2 | 29°R35 | 28°35 | 24°44 | n.a. | M15 |
| T 16 | 13 22 34 | 22° 4'17 | 18°36 | 3°26 | 24°16 | 18°22 | 27°56 | 14°52 | 6°40 | 13°54 | 2° 3 | 29°34 | 28°32 | 24°51 | n.a. | T 16 |
| W17 | 13 26 31 | 23° 2'00 | 2♉53 | 5°27 | 25°28 | 19° 2 | 28° 4 | 14°56 | 6°42 | 13°56 | 2° 4 | 29°32 | 28°29 | 24°57 | n.a. | W17 |
| T 18 | 13 30 27 | 23°59'42 | 17°23 | 7°26 | 26°39 | 19°41 | 28°13 | 15° 0 | 6°43 | 13°58 | 2° 6 | 29°29 | 28°25 | 25° 4 | n.a. | T 18 |
| F 19 | 13 34 24 | 24°57'22 | 2♊ 0 | 9°23 | 27°50 | 20°21 | 28°22 | 15° 4 | 6°44 | 14° 0 | 2° 7 | 29°26 | 28°22 | 25°11 | n.a. | F 19 |
| S 20 | 13 38 20 | 25°55'01 | 16°38 | 11°16 | 29° 2 | 21° 0 | 28°31 | 15° 8 | 6°46 | 14° 2 | 2° 8 | 29°22 | 28°19 | 25°17 | n.a. | S 20 |
| S 21 | 13 42 17 | 26°52'38 | 1♋11 | 13° 8 | 0♊13 | 21°40 | 28°40 | 15°12 | 6°47 | 14° 5 | 2°10 | 29°19 | 28°16 | 25°24 | n.a. | S 21 |
| M22 | 13 46 13 | 27°50'14 | 15°33 | 14°56 | 1°24 | 22°19 | 28°49 | 15°16 | 6°48 | 14° 7 | 2°11 | 29°18 | 28°13 | 25°31 | n.a. | M22 |
| T 23 | 13 50 10 | 28°47'48 | 29°41 | 16°41 | 2°35 | 22°59 | 28°59 | 15°19 | 6°49 | 14° 9 | 2°12 | 29°D17 | 28° 9 | 25°38 | n.a. | T 23 |
| W24 | 13 54 6 | 29°45'20 | 13♌34 | 18°24 | 3°47 | 23°38 | 29° 8 | 15°23 | 6°50 | 14°11 | 2°14 | 29°18 | 28° 6 | 25°44 | n.a. | W24 |
| T 25 | 13 58 3 | 0♉42'51 | 27°12 | 20° 3 | 4°58 | 24°17 | 29°18 | 15°26 | 6°51 | 14°13 | 2°15 | 29°19 | 28° 3 | 25°51 | n.a. | T 25 |
| F 26 | 14 2 0 | 1°40'20 | 10♍35 | 21°40 | 6° 9 | 24°57 | 29°27 | 15°30 | 6°52 | 14°16 | 2°17 | 29°21 | 28° 0 | 25°58 | n.a. | F 26 |
| S 27 | 14 5 56 | 2°37'48 | 23°44 | 23°13 | 7°19 | 25°36 | 29°37 | 15°33 | 6°53 | 14°18 | 2°18 | 29°R22 | 27°57 | 26° 5 | n.a. | S 27 |
| S 28 | 14 9 53 | 3°35'14 | 6♎40 | 24°43 | 8°30 | 26°15 | 29°47 | 15°36 | 6°54 | 14°20 | 2°19 | 29°21 | 27°54 | 26°11 | n.a. | S 28 |
| M29 | 14 13 49 | 4°32'39 | 19°24 | 26°10 | 9°41 | 26°55 | 29°57 | 15°40 | 6°55 | 14°22 | 2°21 | 29°20 | 27°50 | 26°18 | n.a. | M29 |
| T 30 | 14 17 46 | 5♉30'03 | 1♏56 | 27♉34 | 10♊52 | 27♉34 | 0♋ 7 | 15♒43 | 6♒56 | 14♈24 | 2♉22 | 29♓16 | 27♓47 | 26♐25 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 3n 3 | 5s 5 | 0s59 | 0s27 | 1s 9 | 14n20 | 0n36 | 14n57 | 0n31 | 24n 4 | 0n25 | 18s12 | 1s20 | 19s34 | 0s39 | 3n35 | 1s53 | 0s 6 | 13s 7 | 0s 9 | 0s16 | 28s38 | | n.a. |
| T 2 | 3 26 | 11 6 | 2 7 | 0n31 | 1 1 | 14 47 | 0 39 | 15 11 | 0 31 | 24 4 | 0 25 | 18 10 | 1 21 | 19 33 | 0 39 | 3 36 | 1 53 | 0 6 | 13 7 | 0 9 | 0 18 | 28 39 | | n.a. |
| W 3 | 3 49 | 16 33 | 3 7 | 1 30 | 0 51 | 15 13 | 0 42 | 15 24 | 0 32 | 24 5 | 0 25 | 18 9 | 1 21 | 19 33 | 0 39 | 3 37 | 1 53 | 0 5 | 13 6 | 0 9 | 0 19 | 28 39 | | n.a. |
| T 4 | 4 12 | 21 14 | 3 57 | 2 30 | 0 42 | 15 39 | 0 45 | 15 38 | 0 32 | 24 5 | 0 25 | 18 7 | 1 21 | 19 32 | 0 39 | 3 37 | 1 53 | 0 4 | 13 6 | 0 10 | 0 20 | 28 40 | | n.a. |
| F 5 | 4 35 | 24 56 | 4 36 | 3 30 | 0 32 | 16 5 | 0 48 | 15 51 | 0 33 | 24 5 | 0 25 | 18 6 | 1 21 | 19 32 | 0 39 | 3 38 | 1 53 | 0 4 | 13 6 | 0 11 | 0 21 | 28 40 | | n.a. |
| S 6 | 4 58 | 27 31 | 5 2 | 4 30 | 0 22 | 16 30 | 0 50 | 16 4 | 0 33 | 24 5 | 0 25 | 18 5 | 1 21 | 19 31 | 0 40 | 3 39 | 1 53 | 0 3 | 13 6 | 0 11 | 0 23 | 28 41 | | n.a. |
| S 7 | 5 21 | 28 49 | 5 14 | 5 31 | 0 11 | 16 55 | 0 53 | 16 16 | 0 34 | 24 6 | 0 25 | 18 4 | 1 21 | 19 31 | 0 40 | 3 40 | 1 53 | 0 3 | 13 6 | 0 12 | 0 24 | 28 41 | | n.a. |
| M 8 | 5 43 | 28 47 | 5 14 | 6 31 | 0 1 | 17 19 | 0 56 | 16 29 | 0 34 | 24 6 | 0 25 | 18 2 | 1 22 | 19 30 | 0 40 | 3 41 | 1 53 | 0 2 | 13 6 | 0 12 | 0 25 | 28 41 | | n.a. |
| T 9 | 6 6 | 27 25 | 4 59 | 7 31 | 0n10 | 17 43 | 0 59 | 16 42 | 0 35 | 24 6 | 0 26 | 18 1 | 1 22 | 19 30 | 0 40 | 3 42 | 1 53 | 0 2 | 13 6 | 0 12 | 0 27 | 28 42 | | n.a. |
| W10 | 6 29 | 24 46 | 4 32 | 8 31 | 0 21 | 18 7 | 1 2 | 16 54 | 0 35 | 24 6 | 0 26 | 18 0 | 1 22 | 19 30 | 0 40 | 3 43 | 1 53 | 0 1 | 13 6 | 0 12 | 0 28 | 28 42 | | n.a. |
| T 11 | 6 51 | 20 58 | 3 51 | 9 29 | 0 31 | 18 30 | 1 4 | 17 7 | 0 36 | 24 6 | 0 26 | 17 59 | 1 22 | 19 29 | 0 40 | 3 44 | 1 53 | 0 1 | 13 5 | 0 12 | 0 29 | 28 43 | | n.a. |
| F 12 | 7 13 | 16 10 | 2 59 | 10 27 | 0 42 | 18 52 | 1 7 | 17 19 | 0 36 | 24 7 | 0 26 | 17 57 | 1 22 | 19 29 | 0 40 | 3 45 | 1 53 | 0 0 | 13 5 | 0 11 | 0 30 | 28 43 | | n.a. |
| S 13 | 7 36 | 10 33 | 1 57 | 11 24 | 0 52 | 19 15 | 1 10 | 17 31 | 0 37 | 24 7 | 0 26 | 17 56 | 1 23 | 19 28 | 0 40 | 3 45 | 1 53 | 0n 0 | 13 5 | 0 11 | 0 32 | 28 43 | | n.a. |
| S 14 | 7 58 | 4 19 | 0 47 | 12 19 | 1 2 | 19 36 | 1 12 | 17 43 | 0 37 | 24 7 | 0 26 | 17 55 | 1 23 | 19 28 | 0 40 | 3 46 | 1 53 | 0 1 | 13 5 | 0 10 | 0 33 | 28 44 | | n.a. |
| M15 | 8 20 | 2n17 | 0n28 | 13 12 | 1 12 | 19 57 | 1 15 | 17 54 | 0 38 | 24 7 | 0 26 | 17 54 | 1 23 | 19 28 | 0 40 | 3 47 | 1 53 | 0 1 | 13 5 | 0 10 | 0 34 | 28 44 | | n.a. |
| T 16 | 8 41 | 8 57 | 1 43 | 14 4 | 1 21 | 20 18 | 1 17 | 18 6 | 0 38 | 24 7 | 0 26 | 17 53 | 1 23 | 19 27 | 0 40 | 3 48 | 1 53 | 0 2 | 13 5 | 0 10 | 0 35 | 28 44 | | n.a. |
| W17 | 9 3 | 15 19 | 2 53 | 14 54 | 1 30 | 20 38 | 1 20 | 18 18 | 0 39 | 24 8 | 0 26 | 17 52 | 1 23 | 19 27 | 0 40 | 3 49 | 1 53 | 0 2 | 13 5 | 0 11 | 0 37 | 28 45 | | n.a. |
| T 18 | 9 25 | 20 56 | 3 53 | 15 41 | 1 38 | 20 58 | 1 22 | 18 29 | 0 39 | 24 8 | 0 26 | 17 51 | 1 23 | 19 27 | 0 40 | 3 50 | 1 53 | 0 3 | 13 5 | 0 12 | 0 38 | 28 45 | | n.a. |
| F 19 | 9 46 | 25 20 | 4 38 | 16 27 | 1 46 | 21 17 | 1 25 | 18 40 | 0 40 | 24 8 | 0 26 | 17 50 | 1 24 | 19 27 | 0 40 | 3 51 | 1 53 | 0 4 | 13 5 | 0 14 | 0 39 | 28 45 | | n.a. |
| S 20 | 10 7 | 28 6 | 5 5 | 17 10 | 1 53 | 21 35 | 1 27 | 18 51 | 0 40 | 24 8 | 0 26 | 17 49 | 1 24 | 19 26 | 0 40 | 3 51 | 1 53 | 0 4 | 13 5 | 0 15 | 0 41 | 28 46 | | n.a. |
| S 21 | 10 28 | 28 55 | 5 13 | 17 51 | 1 59 | 21 53 | 1 30 | 19 2 | 0 40 | 24 8 | 0 26 | 17 48 | 1 24 | 19 26 | 0 40 | 3 52 | 1 53 | 0 5 | 13 5 | 0 16 | 0 42 | 28 46 | | n.a. |
| M22 | 10 49 | 27 46 | 5 1 | 18 29 | 2 5 | 22 10 | 1 32 | 19 13 | 0 41 | 24 8 | 0 26 | 17 47 | 1 24 | 19 26 | 0 40 | 3 53 | 1 53 | 0 5 | 13 5 | 0 17 | 0 43 | 28 46 | | n.a. |
| T 23 | 11 10 | 24 51 | 4 30 | 19 5 | 2 10 | 22 27 | 1 34 | 19 23 | 0 41 | 24 8 | 0 26 | 17 46 | 1 24 | 19 25 | 0 40 | 3 54 | 1 54 | 0 6 | 13 5 | 0 17 | 0 44 | 28 46 | | n.a. |
| W24 | 11 31 | 20 31 | 3 44 | 19 38 | 2 14 | 22 43 | 1 36 | 19 34 | 0 42 | 24 9 | 0 26 | 17 45 | 1 25 | 19 25 | 0 40 | 3 55 | 1 54 | 0 6 | 13 5 | 0 17 | 0 46 | 28 47 | | n.a. |
| T 25 | 11 51 | 15 11 | 2 47 | 20 9 | 2 17 | 22 59 | 1 39 | 19 44 | 0 42 | 24 9 | 0 26 | 17 44 | 1 25 | 19 25 | 0 40 | 3 56 | 1 54 | 0 7 | 13 4 | 0 16 | 0 47 | 28 47 | | n.a. |
| F 26 | 12 11 | 9 14 | 1 41 | 20 38 | 2 20 | 23 14 | 1 41 | 19 54 | 0 43 | 24 9 | 0 26 | 17 43 | 1 25 | 19 25 | 0 40 | 3 57 | 1 54 | 0 7 | 13 4 | 0 16 | 0 48 | 28 47 | | n.a. |
| S 27 | 12 31 | 2 59 | 0 31 | 21 4 | 2 22 | 23 28 | 1 43 | 20 4 | 0 43 | 24 9 | 0 26 | 17 43 | 1 25 | 19 25 | 0 40 | 3 57 | 1 54 | 0 7 | 13 4 | 0 15 | 0 50 | 28 47 | | n.a. |
| S 28 | 12 51 | 3s17 | 0s40 | 21 28 | 2 23 | 23 42 | 1 45 | 20 14 | 0 43 | 24 9 | 0 26 | 17 42 | 1 26 | 19 24 | 0 40 | 3 58 | 1 54 | 0 8 | 13 4 | 0 15 | 0 51 | 28 48 | | n.a. |
| M29 | 13 11 | 9 19 | 1 47 | 21 50 | 2 23 | 23 55 | 1 47 | 20 24 | 0 44 | 24 9 | 0 26 | 17 41 | 1 26 | 19 24 | 0 40 | 3 59 | 1 54 | 0 8 | 13 4 | 0 16 | 0 52 | 28 48 | | n.a. |
| T 30 | 13n30 | 14s54 | 2s48 | 22n 9 | 2n23 | 24n 7 | 1n49 | 20n33 | 0n44 | 24n 9 | 0n26 | 17s40 | 1s26 | 19s24 | 0s40 | 4n 0 | 1s54 | 0n 9 | 13s 4 | 0s18 | 0s53 | 28s48 | | n.a. |

Julian Day Number = 1685718.5, Delta T = 03h13m07s
Ecliptic obliquity = 23°42'35, Nutation = - 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°24'53, Lahiri = - 5°17'53 Julian Calendar 1 Apr. 98 BCE == Greg. Calendar 30 March 098 BCE


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# ASTRODIENST EPHEMERIS for the year 98 BCE
# geocentric

## MAY 98 BCE (-97) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 14 21 42 | 6♉27'26 | 14♏18 | 28♉54 | 12♊ 2 | 28♉13 | 0♋17 | 15♒46 | 6♒56 | 14♈26 | 2♉23 | 29°R11 | 27♓44 | 26♐31 | n.a. | W 1 |
| T 2 | 14 25 39 | 7°24'48 | 26°31 | 0♊11 | 13°13 | 28°52 | 0°27 | 15°49 | 6°57 | 14°28 | 2°25 | 29♓ 5 | 27°41 | 26°38 | n.a. | T 2 |
| F 3 | 14 29 35 | 8°22'09 | 8♐35 | 1°25 | 14°23 | 29°31 | 0°37 | 15°52 | 6°58 | 14°31 | 2°26 | 28°58 | 27°38 | 26°45 | n.a. | F 3 |
| S 4 | 14 33 32 | 9°19'30 | 20°33 | 2°35 | 15°33 | 0♊10 | 0°48 | 15°54 | 6°58 | 14°33 | 2°27 | 28°51 | 27°35 | 26°52 | n.a. | S 4 |
| S 5 | 14 37 29 | 10°16'49 | 2♑26 | 3°42 | 16°44 | 0°49 | 0°58 | 15°57 | 6°59 | 14°35 | 2°29 | 28°45 | 27°31 | 26°58 | n.a. | S 5 |
| M 6 | 14 41 25 | 11°14'08 | 14°19 | 4°45 | 17°54 | 1°29 | 1° 9 | 15°59 | 6°59 | 14°37 | 2°30 | 28°40 | 27°28 | 27° 5 | n.a. | M 6 |
| T 7 | 14 45 22 | 12°11'26 | 26°14 | 5°45 | 19° 4 | 2° 8 | 1°19 | 16° 2 | 7° 0 | 14°39 | 2°31 | 28°37 | 27°25 | 27°12 | n.a. | T 7 |
| W 8 | 14 49 18 | 13° 8'44 | 8♒15 | 6°41 | 20°14 | 2°47 | 1°30 | 16° 4 | 7° 0 | 14°41 | 2°33 | 28°D35 | 27°22 | 27°19 | n.a. | W 8 |
| T 9 | 14 53 15 | 14° 6'01 | 20°29 | 7°33 | 21°24 | 3°26 | 1°41 | 16° 7 | 7° 0 | 14°43 | 2°34 | 28°35 | 27°19 | 27°25 | n.a. | T 9 |
| F 10 | 14 57 11 | 15° 3'17 | 2♓58 | 8°21 | 22°34 | 4° 5 | 1°52 | 16° 9 | 7° 1 | 14°45 | 2°36 | 28°36 | 27°15 | 27°32 | n.a. | F 10 |
| S 11 | 15 1 8 | 16° 0'33 | 15°49 | 9° 6 | 23°43 | 4°44 | 2° 2 | 16°11 | 7° 1 | 14°47 | 2°37 | 28°37 | 27°12 | 27°39 | n.a. | S 11 |
| S 12 | 15 5 4 | 16°57'48 | 29° 4 | 9°46 | 24°53 | 5°23 | 2°13 | 16°13 | 7° 1 | 14°49 | 2°38 | 28°R38 | 27° 9 | 27°45 | n.a. | S 12 |
| M13 | 15 9 1 | 17°55'03 | 12♈46 | 10°23 | 26° 3 | 6° 1 | 2°25 | 16°15 | 7° 1 | 14°51 | 2°39 | 28°37 | 27° 6 | 27°52 | n.a. | M13 |
| T 14 | 15 12 58 | 18°52'17 | 26°55 | 10°55 | 27°12 | 6°40 | 2°36 | 16°17 | 7° 1 | 14°53 | 2°41 | 28°34 | 27° 3 | 27°59 | n.a. | T 14 |
| W15 | 15 16 54 | 19°49'31 | 11♉28 | 11°23 | 28°22 | 7°19 | 2°47 | 16°18 | 7°R 1 | 14°55 | 2°42 | 28°29 | 27° 0 | 28° 6 | n.a. | W15 |
| T 16 | 15 20 51 | 20°46'45 | 26°19 | 11°46 | 29°31 | 7°58 | 2°58 | 16°20 | 7° 1 | 14°57 | 2°43 | 28°22 | 26°56 | 28°12 | n.a. | T 16 |
| F 17 | 15 24 47 | 21°43'58 | 11♊20 | 12° 5 | 0♋40 | 8°37 | 3°10 | 16°21 | 7° 1 | 14°59 | 2°45 | 28°15 | 26°53 | 28°19 | n.a. | F 17 |
| S 18 | 15 28 44 | 22°41'10 | 26°22 | 12°20 | 1°49 | 9°16 | 3°21 | 16°23 | 7° 1 | 15° 1 | 2°46 | 28° 7 | 26°50 | 28°26 | n.a. | S 18 |
| S 19 | 15 32 40 | 23°38'22 | 11♋15 | 12°30 | 2°58 | 9°55 | 3°33 | 16°24 | 7° 1 | 15° 2 | 2°47 | 28° 0 | 26°47 | 28°32 | n.a. | S 19 |
| M20 | 15 36 37 | 24°35'33 | 25°53 | 12°35 | 4° 7 | 10°34 | 3°44 | 16°25 | 7° 1 | 15° 4 | 2°49 | 27°55 | 26°44 | 28°39 | n.a. | M20 |
| T 21 | 15 40 33 | 25°32'43 | 10♌ 9 | 12°R36 | 5°16 | 11°12 | 3°56 | 16°26 | 7° 1 | 15° 6 | 2°50 | 27°52 | 26°41 | 28°46 | n.a. | T 21 |
| W22 | 15 44 30 | 26°29'52 | 24° 3 | 12°32 | 6°25 | 11°51 | 4° 7 | 16°27 | 7° 0 | 15° 8 | 2°51 | 27°D51 | 26°37 | 28°53 | n.a. | W22 |
| T 23 | 15 48 27 | 27°27'01 | 7♍34 | 12°24 | 7°33 | 12°30 | 4°19 | 16°28 | 7° 0 | 15°10 | 2°52 | 27°51 | 26°34 | 28°59 | n.a. | T 23 |
| F 24 | 15 52 23 | 28°24'09 | 20°45 | 12°12 | 8°42 | 13° 9 | 4°31 | 16°29 | 7° 0 | 15°11 | 2°54 | 27°52 | 26°31 | 29° 6 | n.a. | F 24 |
| S 25 | 15 56 20 | 29°21'16 | 3♎39 | 11°55 | 9°50 | 13°47 | 4°43 | 16°30 | 6°59 | 15°13 | 2°55 | 27°R52 | 26°28 | 29°13 | n.a. | S 25 |
| S 26 | 16 0 16 | 0♊18'23 | 16°18 | 11°35 | 10°58 | 14°26 | 4°55 | 16°30 | 6°59 | 15°15 | 2°56 | 27°50 | 26°25 | 29°20 | n.a. | S 26 |
| M27 | 16 4 13 | 1°15'30 | 28°45 | 11°11 | 12° 6 | 15° 5 | 5° 7 | 16°31 | 6°58 | 15°17 | 2°57 | 27°46 | 26°21 | 29°26 | n.a. | M27 |
| T 28 | 16 8 9 | 2°12'36 | 11♏ 3 | 10°44 | 13°14 | 15°43 | 5°19 | 16°31 | 6°58 | 15°18 | 2°59 | 27°40 | 26°18 | 29°33 | n.a. | T 28 |
| W29 | 16 12 6 | 3° 9'42 | 23°13 | 10°14 | 14°22 | 16°22 | 5°31 | 16°32 | 6°57 | 15°20 | 3° 0 | 27°31 | 26°15 | 29°40 | n.a. | W29 |
| T 30 | 16 16 3 | 4° 6'48 | 5♐16 | 9°41 | 15°30 | 17° 1 | 5°43 | 16°32 | 6°56 | 15°22 | 3° 1 | 27°20 | 26°12 | 29°46 | n.a. | T 30 |
| F 31 | 16 19 59 | 5♊ 3'53 | 17♐14 | 9♊ 7 | 16♋37 | 17♊39 | 5♋55 | 16♒32 | 6♒56 | 15♈23 | 3♉ 2 | 27♓ 8 | 26♓ 9 | 29♐53 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| W 1 | 13n49 | 19s48 | 3s40 | 22n26 | 2n21 | 24n19 | 1n50 | 20n43 | 0n45 | 24n 9 | 0n26 | 17s40 | 1s26 | 19s24 | 0s40 | 4n 1 | 1s54 | 0n 9 | 13s 4 | 0s20 | 0s55 | 28s48 | | | n.a. |
| T 2 | 14 8 | 23 49 | 4 21 | 22 41 | 2 19 | 24 30 | 1 52 | 20 52 | 0 45 | 24 9 | 0 26 | 17 39 | 1 26 | 19 24 | 0 40 | 4 1 | 1 54 | 0 10 | 13 4 | 0 22 | 0 56 | 28 49 | | | n.a. |
| F 3 | 14 27 | 26 45 | 4 50 | 22 54 | 2 16 | 24 40 | 1 54 | 21 1 | 0 45 | 24 9 | 0 27 | 17 38 | 1 27 | 19 24 | 0 40 | 4 2 | 1 54 | 0 10 | 13 4 | 0 25 | 0 57 | 28 49 | | | n.a. |
| S 4 | 14 46 | 28 27 | 5 6 | 23 5 | 2 13 | 24 50 | 1 55 | 21 10 | 0 46 | 24 9 | 0 27 | 17 38 | 1 27 | 19 24 | 0 41 | 4 3 | 1 54 | 0 11 | 13 4 | 0 28 | 0 58 | 28 49 | | | n.a. |
| S 5 | 15 4 | 28 49 | 5 8 | 23 13 | 2 8 | 24 59 | 1 57 | 21 18 | 0 46 | 24 9 | 0 27 | 17 37 | 1 27 | 19 23 | 0 41 | 4 4 | 1 54 | 0 11 | 13 4 | 0 30 | 1 0 | 28 49 | | | n.a. |
| M 6 | 15 22 | 27 52 | 4 58 | 23 20 | 2 3 | 25 7 | 1 58 | 21 27 | 0 47 | 24 9 | 0 27 | 17 37 | 1 27 | 19 23 | 0 41 | 4 5 | 1 54 | 0 12 | 13 4 | 0 32 | 1 1 | 28 49 | | | n.a. |
| T 7 | 15 40 | 25 37 | 4 34 | 23 25 | 1 56 | 25 15 | 2 0 | 21 35 | 0 47 | 24 9 | 0 27 | 17 36 | 1 27 | 19 23 | 0 41 | 4 5 | 1 54 | 0 12 | 13 4 | 0 34 | 1 2 | 28 49 | | | n.a. |
| W 8 | 15 58 | 22 14 | 3 58 | 23 28 | 1 49 | 25 22 | 2 1 | 21 44 | 0 47 | 24 9 | 0 27 | 17 35 | 1 28 | 19 23 | 0 41 | 4 6 | 1 54 | 0 12 | 13 4 | 0 34 | 1 4 | 28 50 | | | n.a. |
| T 9 | 16 15 | 17 50 | 3 11 | 23 29 | 1 41 | 25 28 | 2 2 | 21 52 | 0 48 | 24 9 | 0 27 | 17 35 | 1 28 | 19 23 | 0 41 | 4 7 | 1 54 | 0 13 | 13 4 | 0 34 | 1 5 | 28 50 | | | n.a. |
| F 10 | 16 32 | 12 36 | 2 14 | 23 28 | 1 33 | 25 33 | 2 4 | 21 59 | 0 48 | 24 9 | 0 27 | 17 35 | 1 28 | 19 23 | 0 41 | 4 8 | 1 54 | 0 13 | 13 4 | 0 34 | 1 6 | 28 50 | | | n.a. |
| S 11 | 16 49 | 6 42 | 1 9 | 23 26 | 1 23 | 25 38 | 2 5 | 22 7 | 0 49 | 24 8 | 0 27 | 17 34 | 1 28 | 19 23 | 0 41 | 4 8 | 1 54 | 0 14 | 13 4 | 0 33 | 1 7 | 28 50 | | | n.a. |
| S 12 | 17 6 | 0 20 | 0n 2 | 23 22 | 1 13 | 25 42 | 2 6 | 22 15 | 0 49 | 24 8 | 0 27 | 17 34 | 1 29 | 19 23 | 0 41 | 4 9 | 1 54 | 0 14 | 13 4 | 0 33 | 1 9 | 28 50 | | | n.a. |
| M13 | 17 22 | 6n15 | 1 15 | 23 17 | 1 2 | 25 46 | 2 7 | 22 22 | 0 49 | 24 8 | 0 27 | 17 33 | 1 29 | 19 23 | 0 41 | 4 10 | 1 54 | 0 15 | 13 4 | 0 33 | 1 10 | 28 50 | | | n.a. |
| T 14 | 17 38 | 12 45 | 2 26 | 23 10 | 0 50 | 25 48 | 2 7 | 22 29 | 0 50 | 24 8 | 0 27 | 17 33 | 1 29 | 19 23 | 0 41 | 4 11 | 1 54 | 0 15 | 13 5 | 0 34 | 1 11 | 28 50 | | | n.a. |
| W15 | 17 54 | 18 45 | 3 29 | 23 2 | 0 38 | 25 50 | 2 8 | 22 36 | 0 50 | 24 8 | 0 27 | 17 33 | 1 29 | 19 23 | 0 41 | 4 11 | 1 54 | 0 15 | 13 5 | 0 37 | 1 13 | 28 50 | | | n.a. |
| T 16 | 18 9 | 23 45 | 4 19 | 22 52 | 0 25 | 25 51 | 2 9 | 22 43 | 0 50 | 24 8 | 0 27 | 17 32 | 1 29 | 19 23 | 0 41 | 4 12 | 1 54 | 0 16 | 13 5 | 0 39 | 1 14 | 28 50 | | | n.a. |
| F 17 | 18 24 | 27 13 | 4 52 | 22 41 | 0 11 | 25 52 | 2 9 | 22 49 | 0 51 | 24 7 | 0 27 | 17 32 | 1 30 | 19 23 | 0 41 | 4 13 | 1 54 | 0 16 | 13 5 | 0 42 | 1 15 | 28 51 | | | n.a. |
| S 18 | 18 39 | 28 45 | 5 5 | 22 28 | 0s 3 | 25 52 | 2 10 | 22 56 | 0 51 | 24 7 | 0 27 | 17 32 | 1 30 | 19 23 | 0 41 | 4 13 | 1 54 | 0 16 | 13 5 | 0 46 | 1 16 | 28 51 | | | n.a. |
| S 19 | 18 54 | 28 10 | 4 57 | 22 15 | 0 18 | 25 51 | 2 10 | 23 2 | 0 51 | 24 7 | 0 27 | 17 32 | 1 30 | 19 23 | 0 41 | 4 14 | 1 54 | 0 17 | 13 5 | 0 48 | 1 18 | 28 51 | | | n.a. |
| M20 | 19 8 | 25 38 | 4 30 | 22 0 | 0 34 | 25 49 | 2 11 | 23 8 | 0 52 | 24 7 | 0 27 | 17 32 | 1 30 | 19 23 | 0 41 | 4 15 | 1 54 | 0 17 | 13 5 | 0 50 | 1 19 | 28 51 | | | n.a. |
| T 21 | 19 22 | 21 32 | 3 46 | 21 45 | 0 49 | 25 47 | 2 11 | 23 14 | 0 52 | 24 6 | 0 27 | 17 32 | 1 31 | 19 24 | 0 41 | 4 15 | 1 54 | 0 18 | 13 5 | 0 52 | 1 20 | 28 51 | | | n.a. |
| W22 | 19 35 | 16 20 | 2 50 | 21 28 | 1 6 | 25 44 | 2 11 | 23 20 | 0 52 | 24 6 | 0 27 | 17 31 | 1 31 | 19 24 | 0 41 | 4 16 | 1 54 | 0 18 | 13 5 | 0 52 | 1 21 | 28 51 | | | n.a. |
| T 23 | 19 49 | 10 28 | 1 46 | 21 11 | 1 22 | 25 40 | 2 11 | 23 25 | 0 53 | 24 6 | 0 27 | 17 31 | 1 31 | 19 24 | 0 41 | 4 17 | 1 54 | 0 18 | 13 5 | 0 52 | 1 23 | 28 51 | | | n.a. |
| F 24 | 20 2 | 4 17 | 0 38 | 20 53 | 1 38 | 25 36 | 2 11 | 23 31 | 0 53 | 24 5 | 0 28 | 17 31 | 1 31 | 19 24 | 0 41 | 4 17 | 1 54 | 0 19 | 13 5 | 0 52 | 1 24 | 28 51 | | | n.a. |
| S 25 | 20 14 | 1s56 | 0s31 | 20 35 | 1 55 | 25 31 | 2 10 | 23 36 | 0 53 | 24 5 | 0 28 | 17 31 | 1 32 | 19 24 | 0 41 | 4 18 | 1 54 | 0 19 | 13 5 | 0 52 | 1 25 | 28 51 | | | n.a. |
| S 26 | 20 27 | 7 58 | 1 37 | 20 16 | 2 11 | 25 25 | 2 10 | 23 41 | 0 54 | 24 5 | 0 28 | 17 31 | 1 32 | 19 24 | 0 41 | 4 19 | 1 55 | 0 19 | 13 5 | 0 52 | 1 27 | 28 51 | | | n.a. |
| M27 | 20 39 | 13 35 | 2 37 | 19 56 | 2 27 | 25 18 | 2 10 | 23 46 | 0 54 | 24 4 | 0 28 | 17 31 | 1 32 | 19 24 | 0 41 | 4 19 | 1 55 | 0 20 | 13 5 | 0 54 | 1 28 | 28 51 | | | n.a. |
| T 28 | 20 50 | 18 36 | 3 28 | 19 37 | 2 43 | 25 11 | 2 9 | 23 50 | 0 54 | 24 4 | 0 28 | 17 32 | 1 32 | 19 25 | 0 41 | 4 20 | 1 55 | 0 20 | 13 6 | 0 56 | 1 29 | 28 51 | | | n.a. |
| W29 | 21 2 | 22 49 | 4 10 | 19 18 | 2 58 | 25 3 | 2 9 | 23 55 | 0 55 | 24 3 | 0 28 | 17 32 | 1 32 | 19 25 | 0 41 | 4 21 | 1 55 | 0 20 | 13 6 | 1 0 | 1 30 | 28 51 | | | n.a. |
| T 30 | 21 12 | 26 0 | 4 40 | 18 59 | 3 12 | 24 55 | 2 8 | 23 59 | 0 55 | 24 3 | 0 28 | 17 32 | 1 33 | 19 25 | 0 42 | 4 21 | 1 55 | 0 20 | 13 6 | 1 4 | 1 32 | 28 51 | | | n.a. |
| F 31 | 21n23 | 28s 1 | 4s57 | 18n41 | 3s26 | 24n46 | 2n 7 | 24n 3 | 0n55 | 24n 2 | 0n28 | 17s32 | 1s33 | 19s25 | 0s42 | 4n22 | 1s55 | 0n21 | 13s 6 | 1s 9 | 1s33 | 28s51 | | | n.a. |

Julian Day Number = 1685748.5, Delta T = 03h13m06s
Ecliptic obliquity = 23°42'34, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°24'49, Lahiri = - 5°17'49 Julian Calendar 1 May 98 BCE == Greg. Calendar 29 Apr. 098 BCE

The year -97 astronomical counting style corresponds to year 098 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 98 BCE
# geocentric

## JUNE 98 BCE (-97) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 23 56 | 6♊ 0'59 | 29♐ 8 | 8°R32 | 17♋45 | 18♊18 | 6♋ 7 | 16°R32 | 6°R55 | 15♈25 | 3♉ 3 | 26°R55 | 26♓ 6 | 29♐59 | n.a. | S 1 |
| S 2 | 16 27 52 | 6°58'05 | 11♑ 1 | 7♊56 | 18°52 | 18°56 | 6°20 | 16♒32 | 6♒54 | 15°26 | 3° 5 | 26♓44 | 26° 2 | 0♑ 7 | n.a. | S 2 |
| M 3 | 16 31 49 | 7°55'11 | 22°53 | 7°19 | 19°59 | 19°35 | 6°32 | 16°32 | 6°53 | 15°28 | 3° 6 | 26°34 | 25°59 | 0°13 | n.a. | M 3 |
| T 4 | 16 35 45 | 8°52'17 | 4♒48 | 6°44 | 21° 6 | 20°13 | 6°44 | 16°31 | 6°52 | 15°29 | 3° 7 | 26°27 | 25°56 | 0°20 | n.a. | T 4 |
| W 5 | 16 39 42 | 9°49'23 | 16°49 | 6° 9 | 22°13 | 20°52 | 6°57 | 16°31 | 6°51 | 15°31 | 3° 8 | 26°23 | 25°53 | 0°27 | n.a. | W 5 |
| T 6 | 16 43 38 | 10°46'30 | 29° 0 | 5°37 | 23°20 | 21°31 | 7° 9 | 16°31 | 6°50 | 15°32 | 3° 9 | 26°21 | 25°50 | 0°34 | n.a. | T 6 |
| F 7 | 16 47 35 | 11°43'37 | 11♓27 | 5° 6 | 24°26 | 22° 9 | 7°22 | 16°30 | 6°49 | 15°34 | 3°10 | 26°D20 | 25°47 | 0°40 | n.a. | F 7 |
| S 8 | 16 51 32 | 12°40'44 | 24°14 | 4°39 | 25°33 | 22°48 | 7°34 | 16°29 | 6°48 | 15°35 | 3°11 | 26°R20 | 25°43 | 0°47 | n.a. | S 8 |
| S 9 | 16 55 28 | 13°37'52 | 7♈25 | 4°15 | 26°39 | 23°26 | 7°47 | 16°28 | 6°47 | 15°37 | 3°12 | 26°20 | 25°40 | 0°54 | n.a. | S 9 |
| M10 | 16 59 25 | 14°35'01 | 21° 4 | 3°54 | 27°45 | 24° 5 | 7°59 | 16°28 | 6°46 | 15°38 | 3°13 | 26°18 | 25°37 | 1° 0 | n.a. | M10 |
| T 11 | 17 3 21 | 15°32'10 | 5♉12 | 3°38 | 28°51 | 24°43 | 8°12 | 16°27 | 6°45 | 15°39 | 3°14 | 26°14 | 25°34 | 1° 7 | n.a. | T 11 |
| W12 | 17 7 18 | 16°29'19 | 19°48 | 3°27 | 29°57 | 25°21 | 8°25 | 16°26 | 6°44 | 15°41 | 3°16 | 26° 7 | 25°31 | 1°14 | n.a. | W12 |
| T 13 | 17 11 14 | 17°26'30 | 4♊47 | 3°20 | 1♌ 3 | 26° 0 | 8°37 | 16°24 | 6°42 | 15°42 | 3°17 | 25°58 | 25°27 | 1°21 | n.a. | T 13 |
| F 14 | 17 15 11 | 18°23'40 | 20° 1 | 3°D18 | 2° 8 | 26°38 | 8°50 | 16°23 | 6°41 | 15°43 | 3°18 | 25°48 | 25°24 | 1°27 | n.a. | F 14 |
| S 15 | 17 19 7 | 19°20'51 | 5♋18 | 3°22 | 3°13 | 27°17 | 9° 3 | 16°22 | 6°40 | 15°44 | 3°19 | 25°37 | 25°21 | 1°34 | n.a. | S 15 |
| S 16 | 17 23 4 | 20°18'03 | 20°28 | 3°31 | 4°18 | 27°55 | 9°16 | 16°20 | 6°38 | 15°46 | 3°20 | 25°27 | 25°18 | 1°41 | n.a. | S 16 |
| M17 | 17 27 1 | 21°15'14 | 5♌20 | 3°45 | 5°23 | 28°34 | 9°29 | 16°19 | 6°37 | 15°47 | 3°21 | 25°20 | 25°15 | 1°48 | n.a. | M17 |
| T 18 | 17 30 57 | 22°12'26 | 19°48 | 4° 5 | 6°28 | 29°12 | 9°41 | 16°17 | 6°35 | 15°48 | 3°22 | 25°15 | 25°12 | 1°54 | n.a. | T 18 |
| W19 | 17 34 54 | 23° 9'38 | 3♍50 | 4°30 | 7°32 | 29°50 | 9°54 | 16°15 | 6°34 | 15°49 | 3°22 | 25°13 | 25° 8 | 2° 1 | n.a. | W19 |
| T 20 | 17 38 50 | 24° 6'50 | 17°24 | 5° 1 | 8°36 | 0♋29 | 10° 7 | 16°13 | 6°32 | 15°50 | 3°23 | 25°12 | 25° 5 | 2° 8 | n.a. | T 20 |
| F 21 | 17 42 47 | 25° 4'03 | 0♎33 | 5°37 | 9°40 | 1° 7 | 10°20 | 16°11 | 6°31 | 15°51 | 3°24 | 25°12 | 25° 2 | 2°14 | n.a. | F 21 |
| S 22 | 17 46 43 | 26° 1'16 | 13°21 | 6°19 | 10°44 | 1°46 | 10°33 | 16° 9 | 6°29 | 15°52 | 3°25 | 25°11 | 24°59 | 2°21 | n.a. | S 22 |
| S 23 | 17 50 40 | 26°58'29 | 25°52 | 7° 7 | 11°48 | 2°24 | 10°46 | 16° 7 | 6°27 | 15°53 | 3°26 | 25° 9 | 24°56 | 2°28 | n.a. | S 23 |
| M24 | 17 54 37 | 27°55'43 | 8♏ 9 | 7°59 | 12°51 | 3° 2 | 10°59 | 16° 5 | 6°26 | 15°54 | 3°27 | 25° 4 | 24°53 | 2°35 | n.a. | M24 |
| T 25 | 17 58 33 | 28°52'57 | 20°17 | 8°57 | 13°54 | 3°41 | 11°12 | 16° 3 | 6°24 | 15°55 | 3°28 | 24°57 | 24°49 | 2°41 | n.a. | T 25 |
| W26 | 18 2 30 | 29°50'12 | 2♐18 | 10° 0 | 14°57 | 4°19 | 11°25 | 16° 0 | 6°22 | 15°56 | 3°29 | 24°47 | 24°46 | 2°48 | n.a. | W26 |
| T 27 | 18 6 26 | 0♋47'28 | 14°14 | 11° 9 | 15°59 | 4°57 | 11°38 | 15°58 | 6°21 | 15°57 | 3°29 | 24°35 | 24°43 | 2°55 | n.a. | T 27 |
| F 28 | 18 10 23 | 1°44'44 | 26° 8 | 12°22 | 17° 1 | 5°36 | 11°51 | 15°55 | 6°19 | 15°58 | 3°30 | 24°21 | 24°40 | 3° 1 | n.a. | F 28 |
| S 29 | 18 14 19 | 2°42'02 | 8♑ 1 | 13°40 | 18° 3 | 6°14 | 12° 5 | 15°53 | 6°17 | 15°59 | 3°31 | 24° 7 | 24°37 | 3° 8 | n.a. | S 29 |
| S 30 | 18 18 16 | 3♋39'20 | 19♑54 | 15♊ 3 | 19♌ 5 | 6♋52 | 12♋18 | 15♒50 | 6♒15 | 15♈59 | 3♉32 | 23♓55 | 24♓33 | 3♑15 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21n33 | 28s44 | 5s 1 | 18n23 | 3s38 | 24n36 | 2n 6 | 24n 7 | 0n56 | 24n 2 | 0n28 | 17s32 | 1s33 | 19s25 | 0s42 | 4n22 | 1s55 | 0n21 | 13s 6 | 1s14 | 1s34 | 28s51 | | n.a. |
| S 2 | 21 43 | 28 6 | 4 52 | 18 6 | 3 50 | 24 25 | 2 5 | 24 10 | 0 56 | 24 1 | 0 28 | 17 32 | 1 33 | 19 26 | 0 42 | 4 23 | 1 55 | 0 21 | 13 6 | 1 19 | 1 35 | 28 51 | | n.a. |
| M 3 | 21 53 | 26 11 | 4 31 | 17 50 | 4 0 | 24 14 | 2 4 | 24 14 | 0 56 | 24 1 | 0 28 | 17 33 | 1 34 | 19 26 | 0 42 | 4 23 | 1 55 | 0 22 | 13 6 | 1 23 | 1 37 | 28 50 | | n.a. |
| T 4 | 22 2 | 23 7 | 3 57 | 17 36 | 4 9 | 24 3 | 2 2 | 24 17 | 0 57 | 24 0 | 0 28 | 17 33 | 1 34 | 19 26 | 0 42 | 4 24 | 1 55 | 0 22 | 13 6 | 1 25 | 1 38 | 28 50 | | n.a. |
| W 5 | 22 10 | 19 2 | 3 13 | 17 23 | 4 16 | 23 51 | 2 1 | 24 20 | 0 57 | 24 0 | 0 28 | 17 33 | 1 34 | 19 26 | 0 42 | 4 24 | 1 55 | 0 22 | 13 6 | 1 27 | 1 39 | 28 50 | | n.a. |
| T 6 | 22 19 | 14 7 | 2 19 | 17 11 | 4 22 | 23 38 | 1 59 | 24 23 | 0 57 | 23 59 | 0 28 | 17 34 | 1 34 | 19 27 | 0 42 | 4 25 | 1 55 | 0 22 | 13 7 | 1 28 | 1 41 | 28 50 | | n.a. |
| F 7 | 22 27 | 8 33 | 1 18 | 17 2 | 4 26 | 23 24 | 1 58 | 24 26 | 0 57 | 23 58 | 0 28 | 17 34 | 1 35 | 19 27 | 0 42 | 4 26 | 1 55 | 0 23 | 13 7 | 1 28 | 1 42 | 28 50 | | n.a. |
| S 8 | 22 34 | 2 29 | 0 11 | 16 54 | 4 29 | 23 10 | 1 56 | 24 28 | 0 58 | 23 58 | 0 28 | 17 35 | 1 35 | 19 27 | 0 42 | 4 26 | 1 55 | 0 23 | 13 7 | 1 28 | 1 43 | 28 50 | | n.a. |
| S 9 | 22 42 | 3n52 | 0n58 | 16 48 | 4 30 | 22 56 | 1 54 | 24 31 | 0 58 | 23 57 | 0 28 | 17 35 | 1 35 | 19 28 | 0 42 | 4 27 | 1 55 | 0 23 | 13 7 | 1 28 | 1 44 | 28 50 | | n.a. |
| M10 | 22 48 | 10 16 | 2 7 | 16 45 | 4 30 | 22 41 | 1 52 | 24 33 | 0 58 | 23 56 | 0 29 | 17 36 | 1 35 | 19 28 | 0 42 | 4 27 | 1 55 | 0 23 | 13 7 | 1 29 | 1 46 | 28 50 | | n.a. |
| T 11 | 22 55 | 16 23 | 3 10 | 16 44 | 4 28 | 22 25 | 1 50 | 24 35 | 0 59 | 23 56 | 0 29 | 17 36 | 1 35 | 19 28 | 0 42 | 4 27 | 1 55 | 0 23 | 13 7 | 1 31 | 1 47 | 28 50 | | n.a. |
| W12 | 23 1 | 21 46 | 4 3 | 16 44 | 4 25 | 22 9 | 1 48 | 24 36 | 0 59 | 23 55 | 0 29 | 17 37 | 1 36 | 19 29 | 0 42 | 4 28 | 1 55 | 0 24 | 13 7 | 1 34 | 1 48 | 28 49 | | n.a. |
| T 13 | 23 7 | 25 55 | 4 40 | 16 47 | 4 21 | 21 52 | 1 45 | 24 38 | 0 59 | 23 54 | 0 29 | 17 37 | 1 36 | 19 29 | 0 42 | 4 28 | 1 55 | 0 24 | 13 8 | 1 37 | 1 49 | 28 49 | | n.a. |
| F 14 | 23 12 | 28 18 | 4 59 | 16 53 | 4 15 | 21 35 | 1 43 | 24 39 | 0 59 | 23 53 | 0 29 | 17 38 | 1 36 | 19 29 | 0 42 | 4 29 | 1 56 | 0 24 | 13 8 | 1 41 | 1 51 | 28 49 | | n.a. |
| S 15 | 23 17 | 28 32 | 4 56 | 17 0 | 4 9 | 21 17 | 1 40 | 24 40 | 1 0 | 23 53 | 0 29 | 17 38 | 1 36 | 19 30 | 0 42 | 4 29 | 1 56 | 0 24 | 13 8 | 1 46 | 1 52 | 28 49 | | n.a. |
| S 16 | 23 21 | 26 37 | 4 33 | 17 9 | 4 1 | 20 59 | 1 37 | 24 41 | 1 0 | 23 52 | 0 29 | 17 39 | 1 37 | 19 30 | 0 42 | 4 30 | 1 56 | 0 24 | 13 8 | 1 49 | 1 53 | 28 49 | | n.a. |
| M17 | 23 25 | 22 53 | 3 51 | 17 20 | 3 52 | 20 40 | 1 35 | 24 42 | 1 0 | 23 51 | 0 29 | 17 40 | 1 37 | 19 30 | 0 42 | 4 30 | 1 56 | 0 24 | 13 8 | 1 52 | 1 55 | 28 49 | | n.a. |
| T 18 | 23 29 | 17 48 | 2 55 | 17 34 | 3 42 | 20 21 | 1 32 | 24 43 | 1 0 | 23 50 | 0 29 | 17 40 | 1 37 | 19 31 | 0 42 | 4 30 | 1 56 | 0 25 | 13 8 | 1 54 | 1 56 | 28 48 | | n.a. |
| W19 | 23 32 | 11 56 | 1 50 | 17 49 | 3 32 | 20 1 | 1 28 | 24 43 | 1 1 | 23 49 | 0 29 | 17 41 | 1 37 | 19 31 | 0 42 | 4 31 | 1 56 | 0 25 | 13 9 | 1 55 | 1 57 | 28 48 | | n.a. |
| T 20 | 23 35 | 5 40 | 0 41 | 18 5 | 3 21 | 19 41 | 1 25 | 24 43 | 1 1 | 23 48 | 0 29 | 17 42 | 1 37 | 19 32 | 0 42 | 4 31 | 1 56 | 0 25 | 13 9 | 1 56 | 1 58 | 28 48 | | n.a. |
| F 21 | 23 37 | 0s39 | 0s28 | 18 23 | 3 9 | 19 21 | 1 22 | 24 43 | 1 1 | 23 47 | 0 29 | 17 43 | 1 38 | 19 32 | 0 42 | 4 32 | 1 56 | 0 25 | 13 9 | 1 56 | 2 0 | 28 48 | | n.a. |
| S 22 | 23 39 | 6 46 | 1 34 | 18 43 | 2 56 | 19 0 | 1 18 | 24 43 | 1 1 | 23 46 | 0 29 | 17 44 | 1 38 | 19 33 | 0 42 | 4 32 | 1 56 | 0 25 | 13 9 | 1 56 | 2 1 | 28 47 | | n.a. |
| S 23 | 23 40 | 12 30 | 2 34 | 19 3 | 2 44 | 18 38 | 1 15 | 24 43 | 1 2 | 23 45 | 0 29 | 17 44 | 1 38 | 19 33 | 0 42 | 4 32 | 1 56 | 0 25 | 13 9 | 1 57 | 2 2 | 28 47 | | n.a. |
| M24 | 23 42 | 17 37 | 3 26 | 19 25 | 2 30 | 18 17 | 1 11 | 24 42 | 1 2 | 23 44 | 0 30 | 17 45 | 1 38 | 19 34 | 0 42 | 4 33 | 1 56 | 0 25 | 13 10 | 1 59 | 2 4 | 28 47 | | n.a. |
| T 25 | 23 42 | 21 59 | 4 7 | 19 47 | 2 17 | 17 55 | 1 7 | 24 42 | 1 2 | 23 43 | 0 30 | 17 46 | 1 38 | 19 34 | 0 42 | 4 33 | 1 56 | 0 25 | 13 10 | 2 2 | 2 5 | 28 47 | | n.a. |
| W26 | 23 43 | 25 23 | 4 37 | 20 10 | 2 3 | 17 32 | 1 3 | 24 41 | 1 2 | 23 42 | 0 30 | 17 47 | 1 39 | 19 34 | 0 42 | 4 33 | 1 56 | 0 26 | 13 10 | 2 6 | 2 6 | 28 46 | | n.a. |
| T 27 | 23 42 | 27 39 | 4 55 | 20 34 | 1 49 | 17 10 | 0 59 | 24 39 | 1 3 | 23 41 | 0 30 | 17 48 | 1 39 | 19 35 | 0 42 | 4 33 | 1 56 | 0 26 | 13 10 | 2 11 | 2 7 | 28 46 | | n.a. |
| F 28 | 23 42 | 28 38 | 4 59 | 20 58 | 1 35 | 16 46 | 0 55 | 24 38 | 1 3 | 23 40 | 0 30 | 17 49 | 1 39 | 19 35 | 0 42 | 4 34 | 1 56 | 0 26 | 13 10 | 2 16 | 2 9 | 28 46 | | n.a. |
| S 29 | 23 41 | 28 18 | 4 51 | 21 22 | 1 21 | 16 23 | 0 50 | 24 37 | 1 3 | 23 39 | 0 30 | 17 50 | 1 39 | 19 36 | 0 42 | 4 34 | 1 56 | 0 26 | 13 11 | 2 22 | 2 10 | 28 46 | | n.a. |
| S 30 | 23n39 | 26s40 | 4s30 | 21n45 | 1s 7 | 15n59 | 0n46 | 24n35 | 1n 3 | 23n38 | 0n30 | 17s51 | 1s39 | 19s36 | 0s42 | 4n34 | 1s57 | 0n26 | 13s11 | 2s27 | 2s11 | 28s45 | | n.a. |

Julian Day Number = 1685779.5, Delta T = 03h13m05s
Ecliptic obliquity = 23°42'33, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°24'45, Lahiri = - 5°17'44 Julian Calendar 1 June 98 BCE == Greg. Calendar 30 May 098 BCE

The year -97 astronomical counting style corresponds to year 098 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 98 BCE
# geocentric

## JULY 98 BCE (-97) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 18 22 12 | 4♋36'39 | 1♒48 | 16♊31 | 20♌ 6 | 7♋30 | 12♋31 | 15°R47 | 6°R13 | 16♈ 0 | 3♉33 | 23°R44 | 24♓30 | 3♑22 | n.a. | M 1 |
| T 2 | 18 26 9 | 5°33'59 | 13°47 | 18° 3 | 21° 7 | 8° 9 | 12°44 | 15♒44 | 6♒11 | 16° 1 | 3°33 | 23♓36 | 24°27 | 3°28 | n.a. | T 2 |
| W 3 | 18 30 6 | 6°31'20 | 25°52 | 19°39 | 22° 8 | 8°47 | 12°57 | 15°41 | 6° 9 | 16° 2 | 3°34 | 23°30 | 24°24 | 3°35 | n.a. | W 3 |
| T 4 | 18 34 2 | 7°28'43 | 8♓ 6 | 21°20 | 23° 9 | 9°25 | 13°10 | 15°38 | 6° 7 | 16° 2 | 3°35 | 23°27 | 24°21 | 3°42 | n.a. | T 4 |
| F 5 | 18 37 59 | 8°26'06 | 20°33 | 23° 4 | 24° 9 | 10° 3 | 13°23 | 15°35 | 6° 5 | 16° 3 | 3°35 | 23°D27 | 24°18 | 3°49 | n.a. | F 5 |
| S 6 | 18 41 55 | 9°23'31 | 3♈19 | 24°51 | 25° 8 | 10°42 | 13°37 | 15°32 | 6° 3 | 16° 3 | 3°36 | 23°R27 | 24°14 | 3°55 | n.a. | S 6 |
| S 7 | 18 45 52 | 10°20'58 | 16°26 | 26°42 | 26° 8 | 11°20 | 13°50 | 15°29 | 6° 1 | 16° 4 | 3°37 | 23°27 | 24°11 | 4° 2 | n.a. | S 7 |
| M 8 | 18 49 48 | 11°18'25 | 29°58 | 28°36 | 27° 7 | 11°58 | 14° 3 | 15°25 | 5°59 | 16° 5 | 3°37 | 23°25 | 24° 8 | 4° 9 | n.a. | M 8 |
| T 9 | 18 53 45 | 12°15'55 | 13♉59 | 0♋31 | 28° 6 | 12°36 | 14°16 | 15°22 | 5°57 | 16° 5 | 3°38 | 23°22 | 24° 5 | 4°15 | n.a. | T 9 |
| W10 | 18 57 41 | 13°13'26 | 28°26 | 2°29 | 29° 4 | 13°15 | 14°29 | 15°19 | 5°55 | 16° 5 | 3°39 | 23°16 | 24° 2 | 4°22 | n.a. | W10 |
| T 11 | 19 1 38 | 14°10'58 | 13♊19 | 4°29 | 0♍ 2 | 13°53 | 14°43 | 15°15 | 5°53 | 16° 6 | 3°39 | 23° 8 | 23°59 | 4°29 | n.a. | T 11 |
| F 12 | 19 5 35 | 15° 8'32 | 28°28 | 6°30 | 0°59 | 14°31 | 14°56 | 15°11 | 5°50 | 16° 6 | 3°40 | 22°59 | 23°55 | 4°36 | n.a. | F 12 |
| S 13 | 19 9 31 | 16° 6'07 | 13♋45 | 8°32 | 1°56 | 15° 9 | 15° 9 | 15° 8 | 5°48 | 16° 7 | 3°40 | 22°49 | 23°52 | 4°42 | n.a. | S 13 |
| S 14 | 19 13 28 | 17° 3'43 | 28°59 | 10°34 | 2°53 | 15°48 | 15°22 | 15° 4 | 5°46 | 16° 7 | 3°41 | 22°40 | 23°49 | 4°49 | n.a. | S 14 |
| M15 | 19 17 24 | 18° 1'21 | 13♌58 | 12°37 | 3°49 | 16°26 | 15°35 | 15° 0 | 5°44 | 16° 7 | 3°41 | 22°34 | 23°46 | 4°56 | n.a. | M15 |
| T 16 | 19 21 21 | 18°58'59 | 28°35 | 14°40 | 4°45 | 17° 4 | 15°48 | 14°56 | 5°41 | 16° 8 | 3°42 | 22°29 | 23°43 | 5° 3 | n.a. | T 16 |
| W17 | 19 25 17 | 19°56'39 | 12♍45 | 16°43 | 5°40 | 17°42 | 16° 2 | 14°52 | 5°39 | 16° 8 | 3°42 | 22°27 | 23°39 | 5° 9 | n.a. | W17 |
| T 18 | 19 29 14 | 20°54'20 | 26°26 | 18°45 | 6°35 | 18°21 | 16°15 | 14°48 | 5°37 | 16° 8 | 3°43 | 22°D27 | 23°36 | 5°16 | n.a. | T 18 |
| F 19 | 19 33 10 | 21°52'02 | 9♎40 | 20°47 | 7°29 | 18°59 | 16°28 | 14°44 | 5°35 | 16° 8 | 3°43 | 22°27 | 23°33 | 5°23 | n.a. | F 19 |
| S 20 | 19 37 7 | 22°49'46 | 22°30 | 22°48 | 8°23 | 19°37 | 16°41 | 14°40 | 5°32 | 16° 8 | 3°43 | 22°R28 | 23°30 | 5°29 | n.a. | S 20 |
| S 21 | 19 41 4 | 23°47'30 | 5♏ 0 | 24°47 | 9°16 | 20°15 | 16°54 | 14°36 | 5°30 | 16° 8 | 3°44 | 22°27 | 23°27 | 5°36 | n.a. | S 21 |
| M22 | 19 45 0 | 24°45'16 | 17°14 | 26°46 | 10° 8 | 20°54 | 17° 7 | 14°32 | 5°28 | 16° 9 | 3°44 | 22°24 | 23°24 | 5°43 | n.a. | M22 |
| T 23 | 19 48 57 | 25°43'03 | 29°18 | 28°44 | 11° 0 | 21°32 | 17°21 | 14°28 | 5°25 | 16° 9 | 3°44 | 22°20 | 23°20 | 5°50 | n.a. | T 23 |
| W24 | 19 52 53 | 26°40'51 | 11♐15 | 0♌41 | 11°51 | 22°10 | 17°34 | 14°24 | 5°23 | 16°R 9 | 3°45 | 22°12 | 23°17 | 5°56 | n.a. | W24 |
| T 25 | 19 56 50 | 27°38'41 | 23° 8 | 2°37 | 12°42 | 22°48 | 17°47 | 14°19 | 5°20 | 16° 9 | 3°45 | 22° 4 | 23°14 | 6° 3 | n.a. | T 25 |
| F 26 | 20 0 46 | 28°36'32 | 5♑ 0 | 4°31 | 13°32 | 23°26 | 18° 0 | 14°15 | 5°18 | 16° 8 | 3°45 | 21°54 | 23°11 | 6°10 | n.a. | F 26 |
| S 27 | 20 4 43 | 29°34'25 | 16°54 | 6°24 | 14°21 | 24° 5 | 18°13 | 14°11 | 5°16 | 16° 8 | 3°46 | 21°44 | 23° 8 | 6°16 | n.a. | S 27 |
| S 28 | 20 8 40 | 0♌32'20 | 28°50 | 8°15 | 15° 9 | 24°43 | 18°26 | 14° 6 | 5°13 | 16° 8 | 3°46 | 21°34 | 23° 5 | 6°23 | n.a. | S 28 |
| M29 | 20 12 36 | 1°30'16 | 10♒51 | 10° 6 | 15°57 | 25°21 | 18°39 | 14° 2 | 5°11 | 16° 8 | 3°46 | 21°26 | 23° 1 | 6°30 | n.a. | M29 |
| T 30 | 20 16 33 | 2°28'13 | 22°58 | 11°55 | 16°44 | 25°59 | 18°52 | 13°57 | 5° 9 | 16° 8 | 3°46 | 21°21 | 22°58 | 6°37 | n.a. | T 30 |
| W31 | 20 20 29 | 3♌26'13 | 5♓13 | 13♌43 | 17♍30 | 26♋37 | 19♋ 5 | 13♒53 | 5♒ 6 | 16♈ 8 | 3♉46 | 21♓17 | 22♓55 | 6♑43 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| M 1 | 23n38 | 23s50 | 3s57 | 22n 8 | 0s53 | 15n36 | 0n41 | 24n33 | 1n 3 | 23n37 | 0n30 | 17s52 | 1s40 | 19s37 | 0s42 | 4n34 | 1s57 | 0n26 | 13s11 | 2s31 | 2s12 | 28s45 | | | n.a. |
| T 2 | 23 35 | 19 57 | 3 13 | 22 31 | 0 39 | 15 11 | 0 36 | 24 31 | 1 4 | 23 36 | 0 30 | 17 53 | 1 40 | 19 37 | 0 43 | 4 35 | 1 57 | 0 26 | 13 11 | 2 34 | 2 14 | 28 45 | | | n.a. |
| W 3 | 23 33 | 15 14 | 2 20 | 22 52 | 0 26 | 14 47 | 0 31 | 24 29 | 1 4 | 23 34 | 0 30 | 17 54 | 1 40 | 19 38 | 0 43 | 4 35 | 1 57 | 0 26 | 13 11 | 2 36 | 2 15 | 28 44 | | | n.a. |
| T 4 | 23 30 | 9 52 | 1 20 | 23 12 | 0 13 | 14 22 | 0 26 | 24 26 | 1 4 | 23 33 | 0 30 | 17 55 | 1 40 | 19 38 | 0 43 | 4 35 | 1 57 | 0 26 | 13 12 | 2 38 | 2 16 | 28 44 | | | n.a. |
| F 5 | 23 26 | 4 1 | 0 15 | 23 31 | 0 0 | 13 57 | 0 21 | 24 24 | 1 4 | 23 32 | 0 30 | 17 56 | 1 40 | 19 39 | 0 43 | 4 35 | 1 57 | 0 26 | 13 12 | 2 38 | 2 18 | 28 44 | | | n.a. |
| S 6 | 23 22 | 2n 8 | 0n52 | 23 48 | 0n12 | 13 32 | 0 16 | 24 21 | 1 5 | 23 31 | 0 30 | 17 58 | 1 41 | 19 40 | 0 43 | 4 35 | 1 57 | 0 26 | 13 12 | 2 38 | 2 19 | 28 43 | | | n.a. |
| S 7 | 23 18 | 8 21 | 1 59 | 24 3 | 0 23 | 13 7 | 0 10 | 24 18 | 1 5 | 23 29 | 0 31 | 17 59 | 1 41 | 19 40 | 0 43 | 4 36 | 1 57 | 0 26 | 13 12 | 2 38 | 2 20 | 28 43 | | | n.a. |
| M 8 | 23 13 | 14 24 | 3 1 | 24 16 | 0 34 | 12 41 | 0 5 | 24 14 | 1 5 | 23 28 | 0 31 | 18 0 | 1 41 | 19 41 | 0 43 | 4 36 | 1 57 | 0 26 | 13 12 | 2 38 | 2 21 | 28 42 | | | n.a. |
| T 9 | 23 8 | 19 56 | 3 54 | 24 27 | 0 44 | 12 15 | 0s 1 | 24 11 | 1 5 | 23 27 | 0 31 | 18 1 | 1 41 | 19 41 | 0 43 | 4 36 | 1 57 | 0 26 | 13 13 | 2 40 | 2 23 | 28 42 | | | n.a. |
| W10 | 23 3 | 24 30 | 4 35 | 24 35 | 0 54 | 11 49 | 0 7 | 24 7 | 1 5 | 23 25 | 0 31 | 18 2 | 1 41 | 19 42 | 0 43 | 4 36 | 1 57 | 0 26 | 13 13 | 2 42 | 2 24 | 28 42 | | | n.a. |
| T 11 | 22 57 | 27 35 | 4 58 | 24 40 | 1 3 | 11 23 | 0 13 | 24 4 | 1 6 | 23 24 | 0 31 | 18 4 | 1 42 | 19 42 | 0 43 | 4 36 | 1 57 | 0 26 | 13 13 | 2 45 | 2 25 | 28 41 | | | n.a. |
| F 12 | 22 50 | 28 43 | 5 1 | 24 43 | 1 11 | 10 57 | 0 19 | 24 0 | 1 6 | 23 23 | 0 31 | 18 5 | 1 42 | 19 43 | 0 43 | 4 36 | 1 57 | 0 26 | 13 13 | 2 49 | 2 26 | 28 41 | | | n.a. |
| S 13 | 22 44 | 27 40 | 4 43 | 24 43 | 1 18 | 10 31 | 0 25 | 23 56 | 1 6 | 23 21 | 0 31 | 18 6 | 1 42 | 19 43 | 0 43 | 4 36 | 1 57 | 0 26 | 13 14 | 2 53 | 2 28 | 28 41 | | | n.a. |
| S 14 | 22 36 | 24 34 | 4 4 | 24 41 | 1 24 | 10 4 | 0 32 | 23 51 | 1 6 | 23 20 | 0 31 | 18 7 | 1 42 | 19 44 | 0 43 | 4 36 | 1 57 | 0 26 | 13 14 | 2 56 | 2 29 | 28 40 | | | n.a. |
| M15 | 22 29 | 19 50 | 3 10 | 24 35 | 1 30 | 9 38 | 0 38 | 23 47 | 1 6 | 23 18 | 0 31 | 18 9 | 1 42 | 19 45 | 0 43 | 4 36 | 1 58 | 0 26 | 13 14 | 2 59 | 2 30 | 28 40 | | | n.a. |
| T 16 | 22 21 | 14 1 | 2 3 | 24 27 | 1 34 | 9 11 | 0 45 | 23 42 | 1 6 | 23 17 | 0 31 | 18 10 | 1 42 | 19 45 | 0 43 | 4 36 | 1 58 | 0 26 | 13 14 | 3 1 | 2 31 | 28 39 | | | n.a. |
| W17 | 22 13 | 7 38 | 0 51 | 24 17 | 1 38 | 8 44 | 0 52 | 23 37 | 1 7 | 23 15 | 0 31 | 18 11 | 1 43 | 19 46 | 0 43 | 4 36 | 1 58 | 0 26 | 13 14 | 3 2 | 2 33 | 28 39 | | | n.a. |
| T 18 | 22 4 | 1 6 | 0s21 | 24 3 | 1 42 | 8 17 | 0 59 | 23 32 | 1 7 | 23 14 | 0 32 | 18 13 | 1 43 | 19 46 | 0 43 | 4 36 | 1 58 | 0 26 | 13 15 | 3 2 | 2 34 | 28 38 | | | n.a. |
| F 19 | 21 55 | 5s16 | 1 31 | 23 48 | 1 44 | 7 51 | 1 6 | 23 27 | 1 7 | 23 12 | 0 32 | 18 14 | 1 43 | 19 47 | 0 43 | 4 36 | 1 58 | 0 25 | 13 15 | 3 2 | 2 35 | 28 38 | | | n.a. |
| S 20 | 21 45 | 11 13 | 2 33 | 23 30 | 1 46 | 7 24 | 1 13 | 23 22 | 1 7 | 23 11 | 0 32 | 18 15 | 1 43 | 19 47 | 0 43 | 4 36 | 1 58 | 0 25 | 13 15 | 3 1 | 2 37 | 28 37 | | | n.a. |
| S 21 | 21 35 | 16 35 | 3 27 | 23 10 | 1 47 | 6 57 | 1 20 | 23 16 | 1 7 | 23 9 | 0 32 | 18 17 | 1 43 | 19 48 | 0 43 | 4 36 | 1 58 | 0 25 | 13 15 | 3 2 | 2 38 | 28 37 | | | n.a. |
| M22 | 21 25 | 21 9 | 4 10 | 22 47 | 1 47 | 6 30 | 1 27 | 23 11 | 1 7 | 23 8 | 0 32 | 18 18 | 1 43 | 19 49 | 0 43 | 4 36 | 1 58 | 0 25 | 13 16 | 3 3 | 2 39 | 28 36 | | | n.a. |
| T 23 | 21 14 | 24 48 | 4 41 | 22 23 | 1 47 | 6 4 | 1 35 | 23 5 | 1 8 | 23 6 | 0 32 | 18 19 | 1 43 | 19 49 | 0 43 | 4 36 | 1 58 | 0 25 | 13 16 | 3 5 | 2 40 | 28 36 | | | n.a. |
| W24 | 21 3 | 27 19 | 4 59 | 21 57 | 1 46 | 5 37 | 1 43 | 22 59 | 1 8 | 23 4 | 0 32 | 18 21 | 1 44 | 19 50 | 0 43 | 4 36 | 1 58 | 0 25 | 13 16 | 3 8 | 2 42 | 28 35 | | | n.a. |
| T 25 | 20 52 | 28 36 | 5 5 | 21 30 | 1 45 | 5 10 | 1 50 | 22 52 | 1 8 | 23 3 | 0 32 | 18 22 | 1 44 | 19 50 | 0 43 | 4 36 | 1 58 | 0 25 | 13 16 | 3 11 | 2 43 | 28 35 | | | n.a. |
| F 26 | 20 40 | 28 34 | 4 57 | 21 1 | 1 43 | 4 44 | 1 58 | 22 46 | 1 8 | 23 1 | 0 32 | 18 24 | 1 44 | 19 51 | 0 43 | 4 36 | 1 58 | 0 25 | 13 17 | 3 15 | 2 44 | 28 34 | | | n.a. |
| S 27 | 20 28 | 27 12 | 4 36 | 20 30 | 1 40 | 4 17 | 2 6 | 22 39 | 1 8 | 22 59 | 0 32 | 18 25 | 1 44 | 19 52 | 0 43 | 4 36 | 1 58 | 0 24 | 13 17 | 3 19 | 2 45 | 28 34 | | | n.a. |
| S 28 | 20 16 | 24 36 | 4 4 | 19 58 | 1 37 | 3 51 | 2 14 | 22 33 | 1 8 | 22 58 | 0 33 | 18 26 | 1 44 | 19 52 | 0 43 | 4 36 | 1 58 | 0 24 | 13 17 | 3 23 | 2 47 | 28 33 | | | n.a. |
| M29 | 20 3 | 20 54 | 3 20 | 19 25 | 1 34 | 3 25 | 2 23 | 22 26 | 1 8 | 22 56 | 0 33 | 18 28 | 1 44 | 19 53 | 0 43 | 4 36 | 1 58 | 0 24 | 13 17 | 3 26 | 2 48 | 28 33 | | | n.a. |
| T 30 | 19 50 | 16 19 | 2 26 | 18 51 | 1 30 | 2 59 | 2 31 | 22 19 | 1 9 | 22 54 | 0 33 | 18 29 | 1 44 | 19 53 | 0 43 | 4 36 | 1 59 | 0 24 | 13 18 | 3 28 | 2 49 | 28 32 | | | n.a. |
| W31 | 19n36 | 11s 2 | 1s25 | 18n16 | 1n26 | 2n33 | 2s40 | 22n12 | 1n 9 | 22n53 | 0n33 | 18s31 | 1s44 | 19s54 | 0s43 | 4n35 | 1s59 | 0n24 | 13s18 | 3s30 | 2s51 | 28s32 | | | n.a. |

Julian Day Number = 1685809.5, Delta T = 03h13m04s
Ecliptic obliquity = 23°42'33, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°24'41, Lahiri = - 5°17'40 Julian Calendar 1 July 98 BCE == Greg. Calendar 29 June 098 BCE

The year -97 astronomical counting style corresponds to year 098 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 98 BCE
# geocentric

## AUGUST 98 BCE (-97) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 24 26 | 4♌24'14 | 17♓37 | 15♌29 | 18♍15 | 27♋16 | 19♋18 | 13°R48 | 5°R 4 | 16°R 7 | 3♉46 | 21°D16 | 22♓52 | 6♑50 | n.a. | T 1 |
| F 2 | 20 28 22 | 5°22'17 | 0♈13 | 17°14 | 19° 0 | 27°54 | 19°31 | 13♒44 | 5♒ 1 | 16♈ 7 | 3°47 | 21♓16 | 22°49 | 6°57 | n.a. | F 2 |
| S 3 | 20 32 19 | 6°20'22 | 13° 4 | 18°58 | 19°43 | 28°32 | 19°44 | 13°39 | 4°59 | 16° 7 | 3°47 | 21°17 | 22°45 | 7° 3 | n.a. | S 3 |
| S 4 | 20 36 15 | 7°18'29 | 26°13 | 20°41 | 20°25 | 29°10 | 19°57 | 13°35 | 4°57 | 16° 6 | 3°47 | 21°18 | 22°42 | 7°10 | n.a. | S 4 |
| M 5 | 20 40 12 | 8°16'39 | 9♉42 | 22°22 | 21° 7 | 29°48 | 20°10 | 13°30 | 4°54 | 16° 6 | 3°47 | 21°R19 | 22°39 | 7°17 | n.a. | M 5 |
| T 6 | 20 44 8 | 9°14'50 | 23°34 | 24° 3 | 21°47 | 0♌27 | 20°22 | 13°25 | 4°52 | 16° 6 | 3°47 | 21°18 | 22°36 | 7°24 | n.a. | T 6 |
| W 7 | 20 48 5 | 10°13'04 | 7♊50 | 25°42 | 22°27 | 1° 5 | 20°35 | 13°21 | 4°49 | 16° 5 | 3°R47 | 21°15 | 22°33 | 7°30 | n.a. | W 7 |
| T 8 | 20 52 2 | 11°11'20 | 22°25 | 27°19 | 23° 5 | 1°43 | 20°48 | 13°16 | 4°47 | 16° 5 | 3°47 | 21°11 | 22°30 | 7°37 | n.a. | T 8 |
| F 9 | 20 55 58 | 12° 9'38 | 7♋18 | 28°56 | 23°42 | 2°21 | 21° 1 | 13°12 | 4°45 | 16° 4 | 3°47 | 21° 6 | 22°26 | 7°44 | n.a. | F 9 |
| S 10 | 20 59 55 | 13° 7'59 | 22°19 | 0♍32 | 24°18 | 3° 0 | 21°13 | 13° 7 | 4°42 | 16° 4 | 3°47 | 21° 0 | 22°23 | 7°51 | n.a. | S 10 |
| S 11 | 21 3 51 | 14° 6'21 | 7♌20 | 2° 6 | 24°53 | 3°38 | 21°26 | 13° 2 | 4°40 | 16° 3 | 3°47 | 20°55 | 22°20 | 7°57 | n.a. | S 11 |
| M12 | 21 7 48 | 15° 4'45 | 22°12 | 3°39 | 25°26 | 4°16 | 21°39 | 12°58 | 4°38 | 16° 2 | 3°47 | 20°51 | 22°17 | 8° 4 | n.a. | M12 |
| T 13 | 21 11 44 | 16° 3'11 | 6♍47 | 5°11 | 25°58 | 4°54 | 21°51 | 12°53 | 4°35 | 16° 2 | 3°46 | 20°48 | 22°14 | 8°11 | n.a. | T 13 |
| W14 | 21 15 41 | 17° 1'38 | 20°59 | 6°42 | 26°29 | 5°33 | 22° 4 | 12°48 | 4°33 | 16° 1 | 3°46 | 20°D48 | 22°10 | 8°17 | n.a. | W14 |
| T 15 | 21 19 37 | 18° 0'08 | 4♎45 | 8°12 | 26°58 | 6°11 | 22°16 | 12°44 | 4°31 | 16° 0 | 3°46 | 20°48 | 22° 7 | 8°24 | n.a. | T 15 |
| F 16 | 21 23 34 | 18°58'39 | 18° 4 | 9°40 | 27°26 | 6°49 | 22°29 | 12°39 | 4°28 | 16° 0 | 3°46 | 20°50 | 22° 4 | 8°31 | n.a. | F 16 |
| S 17 | 21 27 31 | 19°57'12 | 0♏58 | 11° 8 | 27°52 | 7°27 | 22°41 | 12°35 | 4°26 | 15°59 | 3°46 | 20°51 | 22° 1 | 8°38 | n.a. | S 17 |
| S 18 | 21 31 27 | 20°55'47 | 13°32 | 12°34 | 28°16 | 8° 6 | 22°54 | 12°30 | 4°24 | 15°58 | 3°46 | 20°52 | 21°58 | 8°44 | n.a. | S 18 |
| M19 | 21 35 24 | 21°54'24 | 25°48 | 13°59 | 28°39 | 8°44 | 23° 6 | 12°26 | 4°21 | 15°57 | 3°45 | 20°R53 | 21°55 | 8°51 | n.a. | M19 |
| T 20 | 21 39 20 | 22°53'02 | 7♐52 | 15°23 | 29° 0 | 9°22 | 23°18 | 12°21 | 4°19 | 15°57 | 3°45 | 20°52 | 21°51 | 8°58 | n.a. | T 20 |
| W21 | 21 43 17 | 23°51'42 | 19°48 | 16°45 | 29°19 | 10° 1 | 23°30 | 12°17 | 4°17 | 15°56 | 3°45 | 20°49 | 21°48 | 9° 4 | n.a. | W21 |
| T 22 | 21 47 13 | 24°50'24 | 1♑41 | 18° 6 | 29°36 | 10°39 | 23°43 | 12°12 | 4°15 | 15°55 | 3°45 | 20°46 | 21°45 | 9°11 | n.a. | T 22 |
| F 23 | 21 51 10 | 25°49'08 | 13°34 | 19°26 | 29°52 | 11°17 | 23°55 | 12° 8 | 4°13 | 15°54 | 3°44 | 20°42 | 21°42 | 9°18 | n.a. | F 23 |
| S 24 | 21 55 6 | 26°47'54 | 25°29 | 20°45 | 0♎ 5 | 11°55 | 24° 7 | 12° 3 | 4°10 | 15°53 | 3°44 | 20°38 | 21°39 | 9°25 | n.a. | S 24 |
| S 25 | 21 59 3 | 27°46'42 | 7♒31 | 22° 2 | 0°16 | 12°34 | 24°19 | 11°59 | 4° 8 | 15°52 | 3°44 | 20°34 | 21°36 | 9°31 | n.a. | S 25 |
| M26 | 22 3 0 | 28°45'31 | 19°41 | 23°18 | 0°25 | 13°12 | 24°31 | 11°55 | 4° 6 | 15°51 | 3°43 | 20°31 | 21°32 | 9°38 | n.a. | M26 |
| T 27 | 22 6 56 | 29°44'23 | 2♓ 0 | 24°32 | 0°32 | 13°50 | 24°43 | 11°50 | 4° 4 | 15°50 | 3°43 | 20°29 | 21°29 | 9°45 | n.a. | T 27 |
| W28 | 22 10 53 | 0♍43'16 | 14°30 | 25°44 | 0°37 | 14°29 | 24°54 | 11°46 | 4° 2 | 15°49 | 3°42 | 20°D28 | 21°26 | 9°51 | n.a. | W28 |
| T 29 | 22 14 49 | 1°42'12 | 27°12 | 26°55 | 0°39 | 15° 7 | 25° 6 | 11°42 | 4° 0 | 15°48 | 3°42 | 20°28 | 21°23 | 9°58 | n.a. | T 29 |
| F 30 | 22 18 46 | 2°41'10 | 10♈ 5 | 28° 4 | 0°R39 | 15°45 | 25°18 | 11°38 | 3°58 | 15°47 | 3°41 | 20°28 | 21°20 | 10° 5 | n.a. | F 30 |
| S 31 | 22 22 42 | 3♍40'11 | 23♈12 | 29♍11 | 0♎37 | 16♌24 | 25♋30 | 11♒34 | 3♒56 | 15♈45 | 3♉41 | 20♓30 | 21♓16 | 10♑12 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 19n23 | 5s15 | 0s20 | 17n40 | 1n21 | 2n 7 | 2s48 | 22n 4 | 1n 9 | 22n51 | 0n33 | 18s32 | 1s45 | 19s55 | 0s43 | 4n35 | 1s59 | 0n24 | 13s18 | 3s30 | 2s52 | 28s31 | | | n.a. |
| F 2 | 19 8 | 0n49 | 0n48 | 17 3 | 1 17 | 1 42 | 2 57 | 21 57 | 1 9 | 22 49 | 0 33 | 18 34 | 1 45 | 19 55 | 0 43 | 4 35 | 1 59 | 0 23 | 13 18 | 3 30 | 2 53 | 28 30 | | | n.a. |
| S 3 | 18 54 | 6 59 | 1 55 | 16 26 | 1 11 | 1 16 | 3 6 | 21 49 | 1 9 | 22 47 | 0 33 | 18 35 | 1 45 | 19 56 | 0 43 | 4 35 | 1 59 | 0 23 | 13 19 | 3 30 | 2 54 | 28 30 | | | n.a. |
| S 4 | 18 39 | 12 59 | 2 58 | 15 48 | 1 6 | 0 51 | 3 15 | 21 41 | 1 9 | 22 46 | 0 33 | 18 36 | 1 45 | 19 56 | 0 43 | 4 35 | 1 59 | 0 23 | 13 19 | 3 29 | 2 56 | 28 29 | | | n.a. |
| M 5 | 18 24 | 18 33 | 3 52 | 15 9 | 1 0 | 0 27 | 3 24 | 21 33 | 1 9 | 22 44 | 0 33 | 18 38 | 1 45 | 19 57 | 0 43 | 4 35 | 1 59 | 0 23 | 13 19 | 3 29 | 2 57 | 28 29 | | | n.a. |
| T 6 | 18 9 | 23 18 | 4 34 | 14 30 | 0 54 | 0 2 | 3 33 | 21 25 | 1 10 | 22 42 | 0 34 | 18 39 | 1 45 | 19 58 | 0 43 | 4 34 | 1 59 | 0 23 | 13 19 | 3 29 | 2 58 | 28 28 | | | n.a. |
| W 7 | 17 53 | 26 49 | 5 1 | 13 51 | 0 48 | 0s22 | 3 42 | 21 17 | 1 10 | 22 40 | 0 34 | 18 41 | 1 45 | 19 58 | 0 43 | 4 34 | 1 59 | 0 22 | 13 20 | 3 30 | 2 59 | 28 27 | | | n.a. |
| T 8 | 17 37 | 28 39 | 5 10 | 13 11 | 0 41 | 0 46 | 3 51 | 21 8 | 1 10 | 22 38 | 0 34 | 18 42 | 1 45 | 19 59 | 0 43 | 4 34 | 1 59 | 0 22 | 13 20 | 3 32 | 3 1 | 28 27 | | | n.a. |
| F 9 | 17 20 | 28 27 | 4 58 | 12 31 | 0 34 | 1 9 | 4 1 | 20 59 | 1 10 | 22 36 | 0 34 | 18 44 | 1 45 | 19 59 | 0 43 | 4 34 | 1 59 | 0 22 | 13 20 | 3 34 | 3 2 | 28 26 | | | n.a. |
| S 10 | 17 4 | 26 12 | 4 25 | 11 50 | 0 27 | 1 32 | 4 10 | 20 51 | 1 10 | 22 34 | 0 34 | 18 45 | 1 45 | 20 0 | 0 43 | 4 33 | 1 59 | 0 22 | 13 20 | 3 36 | 3 3 | 28 26 | | | n.a. |
| S 11 | 16 47 | 22 6 | 3 34 | 11 10 | 0 20 | 1 55 | 4 20 | 20 42 | 1 10 | 22 33 | 0 34 | 18 46 | 1 45 | 20 0 | 0 43 | 4 33 | 1 59 | 0 21 | 13 21 | 3 38 | 3 4 | 28 25 | | | n.a. |
| M12 | 16 30 | 16 37 | 2 29 | 10 29 | 0 13 | 2 17 | 4 29 | 20 33 | 1 10 | 22 31 | 0 34 | 18 48 | 1 46 | 20 1 | 0 43 | 4 33 | 1 59 | 0 21 | 13 21 | 3 40 | 3 6 | 28 24 | | | n.a. |
| T 13 | 16 12 | 10 17 | 1 16 | 9 48 | 0 6 | 2 38 | 4 39 | 20 23 | 1 10 | 22 29 | 0 34 | 18 49 | 1 46 | 20 2 | 0 43 | 4 32 | 1 59 | 0 21 | 13 21 | 3 41 | 3 7 | 28 24 | | | n.a. |
| W14 | 15 54 | 3 36 | 0s 1 | 9 7 | 0s 2 | 3 0 | 4 49 | 20 14 | 1 10 | 22 27 | 0 35 | 18 51 | 1 46 | 20 2 | 0 43 | 4 32 | 1 59 | 0 21 | 13 21 | 3 41 | 3 8 | 28 23 | | | n.a. |
| T 15 | 15 36 | 3s 3 | 1 15 | 8 27 | 0 10 | 3 20 | 4 58 | 20 5 | 1 11 | 22 25 | 0 35 | 18 52 | 1 46 | 20 3 | 0 43 | 4 32 | 2 0 | 0 20 | 13 22 | 3 41 | 3 10 | 28 22 | | | n.a. |
| F 16 | 15 18 | 9 22 | 2 23 | 7 46 | 0 17 | 3 40 | 5 8 | 19 55 | 1 11 | 22 23 | 0 35 | 18 53 | 1 46 | 20 3 | 0 43 | 4 31 | 2 0 | 0 20 | 13 22 | 3 40 | 3 11 | 28 21 | | | n.a. |
| S 17 | 15 0 | 15 5 | 3 22 | 7 5 | 0 25 | 4 0 | 5 18 | 19 45 | 1 11 | 22 21 | 0 35 | 18 55 | 1 46 | 20 4 | 0 43 | 4 31 | 2 0 | 0 20 | 13 22 | 3 40 | 3 12 | 28 21 | | | n.a. |
| S 18 | 14 41 | 20 2 | 4 9 | 6 25 | 0 33 | 4 18 | 5 28 | 19 35 | 1 11 | 22 19 | 0 35 | 18 56 | 1 46 | 20 4 | 0 43 | 4 31 | 2 0 | 0 19 | 13 22 | 3 39 | 3 13 | 28 20 | | | n.a. |
| M19 | 14 22 | 24 1 | 4 44 | 5 44 | 0 41 | 4 37 | 5 38 | 19 25 | 1 11 | 22 17 | 0 35 | 18 57 | 1 46 | 20 5 | 0 43 | 4 30 | 2 0 | 0 19 | 13 23 | 3 39 | 3 15 | 28 19 | | | n.a. |
| T 20 | 14 3 | 26 53 | 5 5 | 5 4 | 0 49 | 4 54 | 5 48 | 19 15 | 1 11 | 22 15 | 0 35 | 18 59 | 1 46 | 20 5 | 0 43 | 4 30 | 2 0 | 0 19 | 13 23 | 3 40 | 3 16 | 28 19 | | | n.a. |
| W21 | 13 43 | 28 31 | 5 13 | 4 25 | 0 57 | 5 11 | 5 57 | 19 5 | 1 11 | 22 13 | 0 36 | 19 0 | 1 46 | 20 6 | 0 43 | 4 30 | 2 0 | 0 18 | 13 23 | 3 41 | 3 17 | 28 18 | | | n.a. |
| T 22 | 13 23 | 28 49 | 5 8 | 3 45 | 1 5 | 5 26 | 6 7 | 18 54 | 1 11 | 22 11 | 0 36 | 19 1 | 1 46 | 20 6 | 0 43 | 4 29 | 2 0 | 0 18 | 13 23 | 3 42 | 3 18 | 28 17 | | | n.a. |
| F 23 | 13 3 | 27 48 | 4 49 | 3 6 | 1 13 | 5 41 | 6 17 | 18 44 | 1 11 | 22 9 | 0 36 | 19 3 | 1 46 | 20 7 | 0 43 | 4 29 | 2 0 | 0 18 | 13 23 | 3 44 | 3 20 | 28 16 | | | n.a. |
| S 24 | 12 43 | 25 30 | 4 17 | 2 28 | 1 21 | 5 56 | 6 26 | 18 33 | 1 11 | 22 7 | 0 36 | 19 4 | 1 46 | 20 7 | 0 43 | 4 28 | 2 0 | 0 18 | 13 24 | 3 45 | 3 21 | 28 16 | | | n.a. |
| S 25 | 12 23 | 22 3 | 3 34 | 1 50 | 1 29 | 6 9 | 6 36 | 18 22 | 1 11 | 22 5 | 0 36 | 19 5 | 1 46 | 20 8 | 0 43 | 4 28 | 2 0 | 0 17 | 13 24 | 3 47 | 3 22 | 28 15 | | | n.a. |
| M26 | 12 2 | 17 38 | 2 41 | 1 12 | 1 37 | 6 21 | 6 45 | 18 11 | 1 11 | 22 3 | 0 36 | 19 6 | 1 46 | 20 8 | 0 43 | 4 28 | 2 0 | 0 17 | 13 24 | 3 48 | 3 23 | 28 14 | | | n.a. |
| T 27 | 11 41 | 12 26 | 1 40 | 0 35 | 1 45 | 6 32 | 6 54 | 18 0 | 1 12 | 22 1 | 0 36 | 19 8 | 1 46 | 20 9 | 0 43 | 4 27 | 2 0 | 0 16 | 13 24 | 3 49 | 3 25 | 28 13 | | | n.a. |
| W28 | 11 20 | 6 40 | 0 33 | 0s 1 | 1 53 | 6 42 | 7 3 | 17 49 | 1 12 | 21 59 | 0 36 | 19 9 | 1 46 | 20 9 | 0 43 | 4 27 | 2 0 | 0 16 | 13 25 | 3 49 | 3 26 | 28 12 | | | n.a. |
| T 29 | 10 59 | 0 34 | 0n37 | 0 36 | 2 1 | 6 51 | 7 12 | 17 37 | 1 12 | 21 57 | 0 37 | 19 10 | 1 46 | 20 10 | 0 43 | 4 26 | 2 0 | 0 16 | 13 25 | 3 49 | 3 27 | 28 12 | | | n.a. |
| F 30 | 10 38 | 5n40 | 1 46 | 1 11 | 2 8 | 6 59 | 7 20 | 17 26 | 1 12 | 21 55 | 0 37 | 19 11 | 1 46 | 20 10 | 0 43 | 4 26 | 2 0 | 0 15 | 13 25 | 3 49 | 3 29 | 28 11 | | | n.a. |
| S 31 | 10n16 | 11n45 | 2n51 | 1s45 | 2s16 | 7s 5 | 7s28 | 17n14 | 1n12 | 21n53 | 0n37 | 19s12 | 1s46 | 20s11 | 0s43 | 4n25 | 2s 0 | 0n15 | 13s25 | 3s48 | 3s30 | 28s10 | | | n.a. |

Julian Day Number = 1685840.5, Delta T = 03h13m03s
Ecliptic obliquity = 23°42'34, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°24'37, Lahiri = - 5°17'36 Julian Calendar 1 Aug. 98 BCE == Greg. Calendar 30 July 098 BCE

The year -97 astronomical counting style corresponds to year 098 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 98 BCE
# geocentric

## SEPTEMBER 98 BCE (-97) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 22 26 39 | 4♍39'14 | 6♉33 | 0♎16 | 0°R32 | 17♌ 2 | 25♋41 | 11°R30 | 3°R54 | 15°R44 | 3°R40 | 20♓31 | 21♓13 | 10♑18 | n.a. | S 1 |
| M 2 | 22 30 35 | 5°38'19 | 20° 9 | 1°18 | 0♎25 | 17°40 | 25°53 | 11♒26 | 3♒52 | 15♈43 | 3♉40 | 20°32 | 21°10 | 10°25 | n.a. | M 2 |
| T 3 | 22 34 32 | 6°37'27 | 4♊ 1 | 2°18 | 0°16 | 18°19 | 26° 4 | 11°22 | 3°50 | 15°42 | 3°39 | 20°R32 | 21° 7 | 10°32 | n.a. | T 3 |
| W 4 | 22 38 29 | 7°36'37 | 18° 7 | 3°16 | 0° 4 | 18°57 | 26°16 | 11°18 | 3°48 | 15°41 | 3°39 | 20°32 | 21° 4 | 10°38 | n.a. | W 4 |
| T 5 | 22 42 25 | 8°35'50 | 2♋26 | 4°10 | 29♍50 | 19°35 | 26°27 | 11°14 | 3°46 | 15°39 | 3°38 | 20°31 | 21° 1 | 10°45 | n.a. | T 5 |
| F 6 | 22 46 22 | 9°35'05 | 16°56 | 5° 2 | 29°34 | 20°14 | 26°38 | 11°10 | 3°45 | 15°38 | 3°38 | 20°30 | 20°57 | 10°52 | n.a. | F 6 |
| S 7 | 22 50 18 | 10°34'22 | 1♌32 | 5°50 | 29°15 | 20°52 | 26°49 | 11° 6 | 3°43 | 15°37 | 3°37 | 20°29 | 20°54 | 10°59 | n.a. | S 7 |
| S 8 | 22 54 15 | 11°33'42 | 16° 8 | 6°34 | 28°54 | 21°31 | 27° 0 | 11° 3 | 3°41 | 15°35 | 3°36 | 20°28 | 20°51 | 11° 5 | n.a. | S 8 |
| M 9 | 22 58 11 | 12°33'04 | 0♍38 | 7°14 | 28°31 | 22° 9 | 27°11 | 10°59 | 3°39 | 15°34 | 3°36 | 20°27 | 20°48 | 11°12 | n.a. | M 9 |
| T 10 | 23 2 8 | 13°32'28 | 14°57 | 7°50 | 28° 6 | 22°48 | 27°22 | 10°56 | 3°38 | 15°33 | 3°35 | 20°D27 | 20°45 | 11°19 | n.a. | T 10 |
| W11 | 23 6 4 | 14°31'54 | 28°59 | 8°21 | 27°38 | 23°26 | 27°33 | 10°52 | 3°36 | 15°31 | 3°34 | 20°27 | 20°42 | 11°25 | n.a. | W11 |
| T 12 | 23 10 1 | 15°31'23 | 12♎40 | 8°47 | 27°10 | 24° 4 | 27°44 | 10°49 | 3°34 | 15°30 | 3°34 | 20°27 | 20°38 | 11°32 | n.a. | T 12 |
| F 13 | 23 13 57 | 16°30'53 | 25°59 | 9° 7 | 26°39 | 24°43 | 27°55 | 10°45 | 3°33 | 15°29 | 3°33 | 20°28 | 20°35 | 11°39 | n.a. | F 13 |
| S 14 | 23 17 54 | 17°30'25 | 8♏56 | 9°21 | 26° 7 | 25°21 | 28° 5 | 10°42 | 3°31 | 15°27 | 3°32 | 20°28 | 20°32 | 11°46 | n.a. | S 14 |
| S 15 | 23 21 51 | 18°29'59 | 21°32 | 9°R28 | 25°34 | 26° 0 | 28°16 | 10°39 | 3°30 | 15°26 | 3°32 | 20°28 | 20°29 | 11°52 | n.a. | S 15 |
| M16 | 23 25 47 | 19°29'36 | 3♐52 | 9°27 | 24°59 | 26°38 | 28°26 | 10°36 | 3°28 | 15°24 | 3°31 | 20°28 | 20°26 | 11°59 | n.a. | M16 |
| T 17 | 23 29 44 | 20°29'14 | 15°58 | 9°19 | 24°24 | 27°17 | 28°37 | 10°33 | 3°27 | 15°23 | 3°30 | 20°28 | 20°22 | 12° 6 | n.a. | T 17 |
| W18 | 23 33 40 | 21°28'53 | 27°55 | 9° 3 | 23°48 | 27°55 | 28°47 | 10°30 | 3°26 | 15°21 | 3°29 | 20°28 | 20°19 | 12°12 | n.a. | W18 |
| T 19 | 23 37 37 | 22°28'35 | 9♑47 | 8°38 | 23°11 | 28°34 | 28°57 | 10°27 | 3°24 | 15°20 | 3°28 | 20°29 | 20°16 | 12°19 | n.a. | T 19 |
| F 20 | 23 41 33 | 23°28'19 | 21°40 | 8° 4 | 22°35 | 29°12 | 29° 7 | 10°24 | 3°23 | 15°18 | 3°28 | 20°29 | 20°13 | 12°26 | n.a. | F 20 |
| S 21 | 23 45 30 | 24°28'04 | 3♒38 | 7°22 | 21°58 | 29°51 | 29°17 | 10°22 | 3°22 | 15°17 | 3°27 | 20°29 | 20°10 | 12°33 | n.a. | S 21 |
| S 22 | 23 49 26 | 25°27'51 | 15°44 | 6°32 | 21°22 | 0♍29 | 29°27 | 10°19 | 3°21 | 15°15 | 3°26 | 20°30 | 20° 7 | 12°39 | n.a. | S 22 |
| M23 | 23 53 23 | 26°27'40 | 28° 2 | 5°33 | 20°46 | 1° 8 | 29°37 | 10°17 | 3°19 | 15°13 | 3°25 | 20°30 | 20° 3 | 12°46 | n.a. | M23 |
| T 24 | 23 57 20 | 27°27'31 | 10♓33 | 4°28 | 20°11 | 1°46 | 29°46 | 10°14 | 3°18 | 15°12 | 3°24 | 20°31 | 20° 0 | 12°53 | n.a. | T 24 |
| W25 | 0 1 16 | 28°27'24 | 23°20 | 3°17 | 19°38 | 2°25 | 29°56 | 10°12 | 3°17 | 15°10 | 3°23 | 20°R31 | 19°57 | 12°59 | n.a. | W25 |
| T 26 | 0 5 13 | 29°27'19 | 6♈23 | 2° 3 | 19° 5 | 3° 3 | 0♌ 5 | 10°10 | 3°16 | 15° 9 | 3°22 | 20°30 | 19°54 | 13° 6 | n.a. | T 26 |
| F 27 | 0 9 9 | 0♎27'16 | 19°41 | 0°47 | 18°34 | 3°42 | 0°15 | 10° 8 | 3°15 | 15° 7 | 3°21 | 20°30 | 19°51 | 13°13 | n.a. | F 27 |
| S 28 | 0 13 6 | 1°27'15 | 3♉13 | 29♍31 | 18° 5 | 4°20 | 0°24 | 10° 6 | 3°14 | 15° 5 | 3°20 | 20°28 | 19°47 | 13°20 | n.a. | S 28 |
| S 29 | 0 17 2 | 2°27'16 | 16°58 | 28°18 | 17°37 | 4°59 | 0°33 | 10° 4 | 3°13 | 15° 4 | 3°20 | 20°27 | 19°44 | 13°26 | n.a. | S 29 |
| M30 | 0 20 59 | 3♎27'20 | 0♊52 | 27♍10 | 17♍11 | 5♍37 | 0♌42 | 10♒ 2 | 3♒13 | 15♈ 2 | 3♉19 | 20♓25 | 19♓41 | 13♑33 | n.a. | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 9n55 | 17n26 | 3n48 | 2s17 | 2s23 | 7s10 | 7s36 | 17n 3 | 1n12 | 21n51 | 0n37 | 19s14 | 1s46 | 20s11 | 0s43 | 4n25 | 2s 0 | 0n15 | 13s25 | 3s48 | 3s31 | 28s 9 | | n.a. |
| M 2 | 9 33 | 22 21 | 4 33 | 2 49 | 2 30 | 7 14 | 7 44 | 16 51 | 1 12 | 21 49 | 0 37 | 19 15 | 1 46 | 20 12 | 0 43 | 4 24 | 2 0 | 0 14 | 13 26 | 3 48 | 3 32 | 28 8 | | n.a. |
| T 3 | 9 11 | 26 9 | 5 3 | 3 19 | 2 37 | 7 17 | 7 51 | 16 39 | 1 12 | 21 47 | 0 37 | 19 16 | 1 46 | 20 12 | 0 43 | 4 24 | 2 1 | 0 14 | 13 26 | 3 47 | 3 34 | 28 7 | | n.a. |
| W 4 | 8 49 | 28 25 | 5 16 | 3 49 | 2 44 | 7 18 | 7 57 | 16 27 | 1 12 | 21 45 | 0 38 | 19 17 | 1 46 | 20 13 | 0 43 | 4 23 | 2 1 | 0 14 | 13 26 | 3 47 | 3 35 | 28 7 | | n.a. |
| T 5 | 8 26 | 28 51 | 5 9 | 4 16 | 2 50 | 7 18 | 8 3 | 16 15 | 1 12 | 21 43 | 0 38 | 19 18 | 1 46 | 20 13 | 0 43 | 4 23 | 2 1 | 0 13 | 13 26 | 3 48 | 3 36 | 28 6 | | n.a. |
| F 6 | 8 4 | 27 18 | 4 43 | 4 42 | 2 56 | 7 16 | 8 9 | 16 3 | 1 12 | 21 41 | 0 38 | 19 19 | 1 46 | 20 13 | 0 43 | 4 22 | 2 1 | 0 13 | 13 27 | 3 48 | 3 37 | 28 5 | | n.a. |
| S 7 | 7 41 | 23 55 | 3 59 | 5 7 | 3 2 | 7 13 | 8 13 | 15 50 | 1 12 | 21 39 | 0 38 | 19 20 | 1 46 | 20 14 | 0 43 | 4 22 | 2 1 | 0 12 | 13 27 | 3 49 | 3 39 | 28 4 | | n.a. |
| S 8 | 7 18 | 19 1 | 2 59 | 5 29 | 3 7 | 7 9 | 8 18 | 15 38 | 1 12 | 21 37 | 0 38 | 19 21 | 1 46 | 20 14 | 0 43 | 4 21 | 2 1 | 0 12 | 13 27 | 3 49 | 3 40 | 28 3 | | n.a. |
| M 9 | 6 56 | 13 3 | 1 48 | 5 50 | 3 11 | 7 3 | 8 21 | 15 25 | 1 12 | 21 35 | 0 38 | 19 22 | 1 46 | 20 15 | 0 43 | 4 20 | 2 1 | 0 12 | 13 27 | 3 49 | 3 41 | 28 2 | | n.a. |
| T 10 | 6 33 | 6 28 | 0 30 | 6 8 | 3 16 | 6 55 | 8 24 | 15 13 | 1 12 | 21 33 | 0 39 | 19 23 | 1 46 | 20 15 | 0 43 | 4 20 | 2 1 | 0 11 | 13 27 | 3 50 | 3 42 | 28 1 | | n.a. |
| W11 | 6 9 | 0s18 | 0s47 | 6 23 | 3 19 | 6 46 | 8 26 | 15 0 | 1 12 | 21 31 | 0 39 | 19 24 | 1 46 | 20 15 | 0 43 | 4 19 | 2 1 | 0 11 | 13 27 | 3 50 | 3 44 | 28 0 | | n.a. |
| T 12 | 5 46 | 6 54 | 2 0 | 6 36 | 3 22 | 6 36 | 8 27 | 14 47 | 1 12 | 21 29 | 0 39 | 19 25 | 1 46 | 20 16 | 0 43 | 4 19 | 2 1 | 0 10 | 13 28 | 3 49 | 3 45 | 27 59 | | n.a. |
| F 13 | 5 23 | 13 0 | 3 5 | 6 46 | 3 24 | 6 24 | 8 27 | 14 34 | 1 12 | 21 27 | 0 39 | 19 26 | 1 46 | 20 16 | 0 43 | 4 18 | 2 1 | 0 10 | 13 28 | 3 49 | 3 46 | 27 59 | | n.a. |
| S 14 | 4 59 | 18 23 | 3 58 | 6 52 | 3 25 | 6 11 | 8 27 | 14 21 | 1 12 | 21 25 | 0 39 | 19 27 | 1 46 | 20 16 | 0 43 | 4 18 | 2 1 | 0 10 | 13 28 | 3 49 | 3 48 | 27 58 | | n.a. |
| S 15 | 4 36 | 22 49 | 4 38 | 6 55 | 3 24 | 5 56 | 8 25 | 14 8 | 1 12 | 21 23 | 0 39 | 19 27 | 1 46 | 20 17 | 0 42 | 4 17 | 2 1 | 0 9 | 13 28 | 3 49 | 3 49 | 27 57 | | n.a. |
| M16 | 4 12 | 26 8 | 5 4 | 6 54 | 3 23 | 5 40 | 8 23 | 13 54 | 1 12 | 21 21 | 0 40 | 19 28 | 1 46 | 20 17 | 0 42 | 4 16 | 2 1 | 0 9 | 13 28 | 3 49 | 3 50 | 27 56 | | n.a. |
| T 17 | 3 49 | 28 12 | 5 16 | 6 48 | 3 21 | 5 23 | 8 20 | 13 41 | 1 12 | 21 19 | 0 40 | 19 29 | 1 46 | 20 17 | 0 42 | 4 16 | 2 1 | 0 8 | 13 29 | 3 49 | 3 51 | 27 55 | | n.a. |
| W18 | 3 25 | 28 56 | 5 14 | 6 38 | 3 17 | 5 5 | 8 16 | 13 28 | 1 12 | 21 17 | 0 40 | 19 30 | 1 46 | 20 18 | 0 42 | 4 15 | 2 1 | 0 8 | 13 29 | 3 49 | 3 53 | 27 54 | | n.a. |
| T 19 | 3 1 | 28 19 | 4 59 | 6 23 | 3 11 | 4 46 | 8 10 | 13 14 | 1 12 | 21 15 | 0 40 | 19 30 | 1 46 | 20 18 | 0 42 | 4 15 | 2 1 | 0 8 | 13 29 | 3 49 | 3 54 | 27 53 | | n.a. |
| F 20 | 2 37 | 26 24 | 4 31 | 6 3 | 3 4 | 4 25 | 8 4 | 13 1 | 1 12 | 21 13 | 0 40 | 19 31 | 1 45 | 20 18 | 0 42 | 4 14 | 2 1 | 0 7 | 13 29 | 3 49 | 3 55 | 27 52 | | n.a. |
| S 21 | 2 13 | 23 18 | 3 52 | 5 37 | 2 54 | 4 5 | 7 57 | 12 47 | 1 12 | 21 11 | 0 40 | 19 32 | 1 45 | 20 19 | 0 42 | 4 13 | 2 1 | 0 7 | 13 29 | 3 49 | 3 56 | 27 51 | | n.a. |
| S 22 | 1 49 | 19 11 | 3 1 | 5 7 | 2 43 | 3 43 | 7 50 | 12 33 | 1 12 | 21 9 | 0 41 | 19 32 | 1 45 | 20 19 | 0 42 | 4 13 | 2 1 | 0 6 | 13 29 | 3 48 | 3 58 | 27 50 | | n.a. |
| M23 | 1 25 | 14 11 | 2 1 | 4 32 | 2 30 | 3 21 | 7 41 | 12 19 | 1 12 | 21 8 | 0 41 | 19 33 | 1 45 | 20 19 | 0 42 | 4 12 | 2 1 | 0 6 | 13 29 | 3 48 | 3 59 | 27 49 | | n.a. |
| T 24 | 1 1 | 8 32 | 0 55 | 3 52 | 2 16 | 2 59 | 7 31 | 12 5 | 1 12 | 21 6 | 0 41 | 19 34 | 1 45 | 20 19 | 0 42 | 4 11 | 2 1 | 0 6 | 13 30 | 3 48 | 4 0 | 27 48 | | n.a. |
| W25 | 0 37 | 2 26 | 0n16 | 3 8 | 1 59 | 2 36 | 7 21 | 11 51 | 1 12 | 21 4 | 0 41 | 19 34 | 1 45 | 20 20 | 0 42 | 4 11 | 2 1 | 0 5 | 13 30 | 3 48 | 4 1 | 27 47 | | n.a. |
| T 26 | 0 13 | 3n53 | 1 27 | 2 22 | 1 41 | 2 13 | 7 10 | 11 37 | 1 12 | 21 2 | 0 41 | 19 35 | 1 45 | 20 20 | 0 42 | 4 10 | 2 1 | 0 5 | 13 30 | 3 48 | 4 3 | 27 46 | | n.a. |
| F 27 | 0s11 | 10 10 | 2 35 | 1 33 | 1 22 | 1 51 | 6 59 | 11 23 | 1 12 | 21 0 | 0 42 | 19 35 | 1 45 | 20 20 | 0 42 | 4 9 | 2 1 | 0 4 | 13 30 | 3 48 | 4 4 | 27 45 | | n.a. |
| S 28 | 0 35 | 16 5 | 3 35 | 0 45 | 1 2 | 1 28 | 6 47 | 11 9 | 1 12 | 20 58 | 0 42 | 19 36 | 1 45 | 20 20 | 0 42 | 4 9 | 2 1 | 0 4 | 13 30 | 3 49 | 4 5 | 27 44 | | n.a. |
| S 29 | 0 59 | 21 18 | 4 24 | 0n 4 | 0 41 | 1 6 | 6 34 | 10 55 | 1 12 | 20 57 | 0 42 | 19 36 | 1 45 | 20 20 | 0 42 | 4 8 | 2 1 | 0 3 | 13 30 | 3 50 | 4 6 | 27 43 | | n.a. |
| M30 | 1s23 | 25n25 | 4n58 | 0n50 | 0s20 | 0s44 | 6s21 | 10n40 | 1n12 | 20n55 | 0n42 | 19s37 | 1s45 | 20s20 | 0s42 | 4n 7 | 2s 1 | 0n 3 | 13s30 | 3s50 | 4s 8 | 27s42 | | n.a. |

Julian Day Number = 1685871.5, Delta T = 03h13m02s
Ecliptic obliquity = 23°42'34, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°24'32, Lahiri = - 5°17'32 Julian Calendar 1 Sept. 98 BCE == Greg. Calendar 30 Aug. 098 BCE


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# ASTRODIENST EPHEMERIS for the year 98 BCE
# geocentric

## OCTOBER 98 BCE (-97) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 24 55 | 4♎27'25 | 14♊55 | 26°R 9 | 16°R48 | 6♍16 | 0♌51 | 10°R 0 | 3°R12 | 15°R 0 | 3°R18 | 20°R24 | 19♓38 | 13♉40 | n.a. | T 1 |
| W 2 | 0 28 52 | 5°27'33 | 29° 3 | 25♍18 | 16♍27 | 6°55 | 1° 0 | 9♒58 | 3♒11 | 14♈59 | 3♉17 | 20°D23 | 19°35 | 13°46 | n.a. | W 2 |
| T 3 | 0 32 49 | 6°27'44 | 13♋14 | 24°36 | 16° 8 | 7°33 | 1° 8 | 9°57 | 3°10 | 14°57 | 3°16 | 20♓23 | 19°32 | 13°53 | n.a. | T 3 |
| F 4 | 0 36 45 | 7°27'56 | 27°26 | 24° 6 | 15°51 | 8°12 | 1°17 | 9°56 | 3°10 | 14°55 | 3°15 | 20°24 | 19°28 | 14° 0 | n.a. | F 4 |
| S 5 | 0 40 42 | 8°28'11 | 11♌37 | 23°47 | 15°37 | 8°51 | 1°25 | 9°54 | 3° 9 | 14°54 | 3°14 | 20°25 | 19°25 | 14° 7 | n.a. | S 5 |
| S 6 | 0 44 38 | 9°28'28 | 25°45 | 23°D40 | 15°25 | 9°29 | 1°33 | 9°53 | 3° 8 | 14°52 | 3°13 | 20°26 | 19°22 | 14°13 | n.a. | S 6 |
| M 7 | 0 48 35 | 10°28'46 | 9♍47 | 23°44 | 15°16 | 10° 8 | 1°42 | 9°52 | 3° 8 | 14°50 | 3°12 | 20°28 | 19°19 | 14°20 | n.a. | M 7 |
| T 8 | 0 52 31 | 11°29'07 | 23°39 | 23°59 | 15° 9 | 10°47 | 1°50 | 9°51 | 3° 8 | 14°49 | 3°11 | 20°R28 | 19°16 | 14°27 | n.a. | T 8 |
| W 9 | 0 56 28 | 12°29'30 | 7♎20 | 24°25 | 15° 4 | 11°25 | 1°57 | 9°50 | 3° 7 | 14°47 | 3° 9 | 20°27 | 19°13 | 14°33 | n.a. | W 9 |
| T 10 | 1 0 24 | 13°29'54 | 20°45 | 24°59 | 15°D 2 | 12° 4 | 2° 5 | 9°49 | 3° 7 | 14°45 | 3° 8 | 20°25 | 19° 9 | 14°40 | n.a. | T 10 |
| F 11 | 1 4 21 | 14°30'20 | 3♏55 | 25°42 | 15° 3 | 12°43 | 2°13 | 9°48 | 3° 6 | 14°44 | 3° 7 | 20°22 | 19° 6 | 14°47 | n.a. | F 11 |
| S 12 | 1 8 18 | 15°30'48 | 16°47 | 26°32 | 15° 6 | 13°21 | 2°20 | 9°48 | 3° 6 | 14°42 | 3° 6 | 20°18 | 19° 3 | 14°54 | n.a. | S 12 |
| S 13 | 1 12 14 | 16°31'18 | 29°22 | 27°29 | 15°11 | 14° 0 | 2°28 | 9°47 | 3° 6 | 14°40 | 3° 5 | 20°13 | 19° 0 | 15° 0 | n.a. | S 13 |
| M14 | 1 16 11 | 17°31'49 | 11♐41 | 28°31 | 15°18 | 14°39 | 2°35 | 9°47 | 3° 6 | 14°38 | 3° 4 | 20° 9 | 18°57 | 15° 7 | n.a. | M14 |
| T 15 | 1 20 7 | 18°32'22 | 23°47 | 29°39 | 15°28 | 15°18 | 2°42 | 9°47 | 3° 6 | 14°37 | 3° 3 | 20° 5 | 18°53 | 15°14 | n.a. | T 15 |
| W16 | 1 24 4 | 19°32'56 | 5♑45 | 0♎51 | 15°40 | 15°56 | 2°49 | 9°46 | 3°D 6 | 14°35 | 3° 2 | 20° 3 | 18°50 | 15°20 | n.a. | W16 |
| T 17 | 1 28 0 | 20°33'31 | 17°37 | 2° 7 | 15°54 | 16°35 | 2°56 | 9°D46 | 3° 6 | 14°33 | 3° 1 | 20°D 2 | 18°47 | 15°27 | n.a. | T 17 |
| F 18 | 1 31 57 | 21°34'08 | 29°28 | 3°25 | 16°11 | 17°14 | 3° 2 | 9°46 | 3° 6 | 14°32 | 3° 0 | 20° 2 | 18°44 | 15°34 | n.a. | F 18 |
| S 19 | 1 35 53 | 22°34'46 | 11♒25 | 4°47 | 16°29 | 17°53 | 3° 9 | 9°46 | 3° 6 | 14°30 | 2°59 | 20° 4 | 18°41 | 15°41 | n.a. | S 19 |
| S 20 | 1 39 50 | 23°35'25 | 23°31 | 6°11 | 16°49 | 18°31 | 3°15 | 9°47 | 3° 6 | 14°28 | 2°57 | 20° 5 | 18°38 | 15°47 | n.a. | S 20 |
| M21 | 1 43 47 | 24°36'06 | 5♓52 | 7°36 | 17°11 | 19°10 | 3°21 | 9°47 | 3° 6 | 14°27 | 2°56 | 20° 7 | 18°34 | 15°54 | n.a. | M21 |
| T 22 | 1 47 43 | 25°36'48 | 18°31 | 9° 4 | 17°35 | 19°49 | 3°27 | 9°48 | 3° 7 | 14°25 | 2°55 | 20°R 8 | 18°31 | 16° 1 | n.a. | T 22 |
| W23 | 1 51 40 | 26°37'31 | 1♈30 | 10°32 | 18° 1 | 20°28 | 3°33 | 9°48 | 3° 7 | 14°23 | 2°54 | 20° 7 | 18°28 | 16° 7 | n.a. | W23 |
| T 24 | 1 55 36 | 27°38'15 | 14°51 | 12° 2 | 18°28 | 21° 6 | 3°39 | 9°49 | 3° 7 | 14°22 | 2°53 | 20° 5 | 18°25 | 16°14 | n.a. | T 24 |
| F 25 | 1 59 33 | 28°39'01 | 28°33 | 13°33 | 18°57 | 21°45 | 3°44 | 9°50 | 3° 8 | 14°20 | 2°52 | 20° 1 | 18°22 | 16°21 | n.a. | F 25 |
| S 26 | 2 3 29 | 29°39'48 | 12♉34 | 15° 4 | 19°28 | 22°24 | 3°50 | 9°50 | 3° 8 | 14°18 | 2°51 | 19°55 | 18°19 | 16°27 | n.a. | S 26 |
| S 27 | 2 7 26 | 0♏40'37 | 26°48 | 16°36 | 20° 0 | 23° 3 | 3°55 | 9°51 | 3° 9 | 14°17 | 2°50 | 19°48 | 18°15 | 16°34 | n.a. | S 27 |
| M28 | 2 11 22 | 1°41'27 | 11♊11 | 18° 8 | 20°34 | 23°42 | 4° 0 | 9°52 | 3° 9 | 14°15 | 2°48 | 19°41 | 18°12 | 16°41 | n.a. | M28 |
| T 29 | 2 15 19 | 2°42'19 | 25°37 | 19°41 | 21° 9 | 24°21 | 4° 5 | 9°54 | 3°10 | 14°14 | 2°47 | 19°35 | 18° 9 | 16°48 | n.a. | T 29 |
| W30 | 2 19 16 | 3°43'12 | 10♋ 0 | 21°14 | 21°46 | 24°59 | 4°10 | 9°55 | 3°10 | 14°12 | 2°46 | 19°31 | 18° 6 | 16°54 | n.a. | W30 |
| T 31 | 2 23 12 | 4♏44'07 | 24♋16 | 22♎47 | 22♍24 | 25♍38 | 4♌14 | 9♒56 | 3♒11 | 14♈11 | 2♉45 | 19♓29 | 18♓ 3 | 17♉ 1 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 1s47 | 28n 3 | 5n14 | 1n33 | 0s 0 | 0s22 | 6s 8 | 10n26 | 1n12 | 20n53 | 0n42 | 19s37 | 1s45 | 20s21 | 0s42 | 4n 7 | 2s 1 | 0n 3 | 13s30 | 3s51 | 4s 9 | 27s40 | | | n.a. |
| W 2 | 2 12 | 28 55 | 5 12 | 2 11 | 0n19 | 0 1 | 5 54 | 10 11 | 1 12 | 20 51 | 0 43 | 19 37 | 1 45 | 20 21 | 0 42 | 4 6 | 2 1 | 0 2 | 13 31 | 3 51 | 4 10 | 27 39 | | | n.a. |
| T 3 | 2 36 | 27 52 | 4 51 | 2 44 | 0 38 | 0n19 | 5 40 | 9 57 | 1 12 | 20 50 | 0 43 | 19 38 | 1 44 | 20 21 | 0 42 | 4 5 | 2 1 | 0 2 | 13 31 | 3 51 | 4 11 | 27 38 | | | n.a. |
| F 4 | 3 0 | 25 2 | 4 12 | 3 12 | 0 55 | 0 38 | 5 26 | 9 42 | 1 12 | 20 48 | 0 43 | 19 38 | 1 44 | 20 21 | 0 42 | 4 5 | 2 1 | 0 1 | 13 31 | 3 51 | 4 13 | 27 37 | | | n.a. |
| S 5 | 3 24 | 20 40 | 3 18 | 3 34 | 1 10 | 0 57 | 5 12 | 9 27 | 1 12 | 20 46 | 0 43 | 19 38 | 1 44 | 20 21 | 0 42 | 4 4 | 2 1 | 0 1 | 13 31 | 3 50 | 4 14 | 27 36 | | | n.a. |
| S 6 | 3 48 | 15 9 | 2 12 | 3 49 | 1 23 | 1 15 | 4 57 | 9 13 | 1 12 | 20 45 | 0 43 | 19 39 | 1 44 | 20 21 | 0 42 | 4 4 | 2 1 | 0 1 | 13 31 | 3 50 | 4 15 | 27 35 | | | n.a. |
| M 7 | 4 12 | 8 54 | 0 59 | 3 58 | 1 35 | 1 32 | 4 43 | 8 58 | 1 12 | 20 43 | 0 44 | 19 39 | 1 44 | 20 21 | 0 42 | 4 3 | 2 1 | 0 0 | 13 31 | 3 49 | 4 17 | 27 34 | | | n.a. |
| T 8 | 4 36 | 2 17 | 0s18 | 4 1 | 1 45 | 1 48 | 4 29 | 8 43 | 1 12 | 20 41 | 0 44 | 19 39 | 1 44 | 20 21 | 0 42 | 4 2 | 2 1 | 0s 0 | 13 31 | 3 49 | 4 18 | 27 33 | | | n.a. |
| W 9 | 4 59 | 4s20 | 1 32 | 3 59 | 1 54 | 2 3 | 4 14 | 8 28 | 1 12 | 20 40 | 0 44 | 19 39 | 1 44 | 20 22 | 0 42 | 4 2 | 2 1 | 0 1 | 13 31 | 3 50 | 4 19 | 27 32 | | | n.a. |
| T 10 | 5 23 | 10 39 | 2 39 | 3 52 | 2 1 | 2 17 | 4 0 | 8 13 | 1 12 | 20 38 | 0 44 | 19 39 | 1 44 | 20 22 | 0 42 | 4 1 | 2 1 | 0 1 | 13 31 | 3 50 | 4 20 | 27 31 | | | n.a. |
| F 11 | 5 47 | 16 21 | 3 36 | 3 39 | 2 6 | 2 30 | 3 46 | 7 58 | 1 12 | 20 37 | 0 44 | 19 39 | 1 44 | 20 22 | 0 42 | 4 0 | 2 1 | 0 2 | 13 31 | 3 52 | 4 22 | 27 29 | | | n.a. |
| S 12 | 6 10 | 21 12 | 4 21 | 3 23 | 2 10 | 2 41 | 3 32 | 7 43 | 1 12 | 20 35 | 0 45 | 19 39 | 1 44 | 20 22 | 0 42 | 4 0 | 2 1 | 0 2 | 13 31 | 3 53 | 4 23 | 27 28 | | | n.a. |
| S 13 | 6 34 | 25 0 | 4 53 | 3 3 | 2 13 | 2 52 | 3 18 | 7 28 | 1 12 | 20 34 | 0 45 | 19 39 | 1 43 | 20 22 | 0 42 | 3 59 | 2 1 | 0 2 | 13 31 | 3 55 | 4 24 | 27 27 | | | n.a. |
| M14 | 6 57 | 27 33 | 5 10 | 2 39 | 2 15 | 3 2 | 3 4 | 7 13 | 1 12 | 20 32 | 0 45 | 19 39 | 1 43 | 20 22 | 0 42 | 3 58 | 2 1 | 0 3 | 13 31 | 3 57 | 4 25 | 27 26 | | | n.a. |
| T 15 | 7 21 | 28 46 | 5 12 | 2 12 | 2 15 | 3 11 | 2 50 | 6 57 | 1 11 | 20 31 | 0 45 | 19 39 | 1 43 | 20 22 | 0 42 | 3 58 | 2 1 | 0 3 | 13 32 | 3 58 | 4 27 | 27 25 | | | n.a. |
| W16 | 7 44 | 28 36 | 5 1 | 1 43 | 2 15 | 3 18 | 2 37 | 6 42 | 1 11 | 20 29 | 0 46 | 19 39 | 1 43 | 20 22 | 0 42 | 3 57 | 2 1 | 0 4 | 13 32 | 3 59 | 4 28 | 27 23 | | | n.a. |
| T 17 | 8 7 | 27 7 | 4 38 | 1 11 | 2 13 | 3 25 | 2 24 | 6 27 | 1 11 | 20 28 | 0 46 | 19 39 | 1 43 | 20 22 | 0 42 | 3 56 | 2 1 | 0 4 | 13 32 | 3 59 | 4 29 | 27 22 | | | n.a. |
| F 18 | 8 30 | 24 26 | 4 2 | 0 38 | 2 11 | 3 30 | 2 11 | 6 11 | 1 11 | 20 27 | 0 46 | 19 39 | 1 43 | 20 22 | 0 42 | 3 56 | 2 1 | 0 4 | 13 32 | 3 59 | 4 30 | 27 21 | | | n.a. |
| S 19 | 8 53 | 20 41 | 3 16 | 0 3 | 2 9 | 3 35 | 1 59 | 5 56 | 1 11 | 20 25 | 0 46 | 19 39 | 1 43 | 20 21 | 0 42 | 3 55 | 2 1 | 0 5 | 13 32 | 3 59 | 4 32 | 27 20 | | | n.a. |
| S 20 | 9 16 | 16 2 | 2 20 | 0s34 | 2 5 | 3 38 | 1 46 | 5 41 | 1 11 | 20 24 | 0 46 | 19 39 | 1 43 | 20 21 | 0 41 | 3 54 | 2 1 | 0 5 | 13 32 | 3 58 | 4 33 | 27 19 | | | n.a. |
| M21 | 9 38 | 10 39 | 1 17 | 1 12 | 2 2 | 3 40 | 1 34 | 5 25 | 1 11 | 20 23 | 0 47 | 19 39 | 1 43 | 20 21 | 0 41 | 3 54 | 2 1 | 0 5 | 13 32 | 3 57 | 4 34 | 27 17 | | | n.a. |
| T 22 | 10 1 | 4 44 | 0 9 | 1 50 | 1 57 | 3 42 | 1 23 | 5 10 | 1 11 | 20 22 | 0 47 | 19 38 | 1 42 | 20 21 | 0 41 | 3 53 | 2 1 | 0 6 | 13 32 | 3 57 | 4 35 | 27 16 | | | n.a. |
| W23 | 10 23 | 1n33 | 1n 2 | 2 30 | 1 53 | 3 42 | 1 11 | 4 54 | 1 11 | 20 21 | 0 47 | 19 38 | 1 42 | 20 21 | 0 41 | 3 52 | 2 1 | 0 6 | 13 32 | 3 57 | 4 37 | 27 15 | | | n.a. |
| T 24 | 10 45 | 7 55 | 2 10 | 3 10 | 1 48 | 3 41 | 1 0 | 4 39 | 1 11 | 20 19 | 0 47 | 19 38 | 1 42 | 20 21 | 0 41 | 3 52 | 2 1 | 0 7 | 13 32 | 3 58 | 4 38 | 27 14 | | | n.a. |
| F 25 | 11 7 | 14 5 | 3 13 | 3 50 | 1 42 | 3 40 | 0 49 | 4 23 | 1 11 | 20 18 | 0 48 | 19 38 | 1 42 | 20 21 | 0 41 | 3 51 | 2 1 | 0 7 | 13 32 | 4 0 | 4 39 | 27 12 | | | n.a. |
| S 26 | 11 29 | 19 41 | 4 6 | 4 31 | 1 37 | 3 37 | 0 39 | 4 7 | 1 10 | 20 17 | 0 48 | 19 37 | 1 42 | 20 21 | 0 41 | 3 51 | 2 1 | 0 7 | 13 32 | 4 2 | 4 40 | 27 11 | | | n.a. |
| S 27 | 11 50 | 24 16 | 4 44 | 5 12 | 1 31 | 3 34 | 0 28 | 3 52 | 1 10 | 20 16 | 0 48 | 19 37 | 1 42 | 20 21 | 0 41 | 3 50 | 2 1 | 0 8 | 13 32 | 4 5 | 4 42 | 27 10 | | | n.a. |
| M28 | 12 12 | 27 24 | 5 5 | 5 53 | 1 25 | 3 30 | 0 18 | 3 36 | 1 10 | 20 15 | 0 48 | 19 36 | 1 42 | 20 20 | 0 41 | 3 49 | 2 1 | 0 8 | 13 32 | 4 8 | 4 43 | 27 9 | | | n.a. |
| T 29 | 12 33 | 28 45 | 5 7 | 6 34 | 1 18 | 3 25 | 0 9 | 3 20 | 1 10 | 20 14 | 0 49 | 19 36 | 1 42 | 20 20 | 0 41 | 3 49 | 2 1 | 0 8 | 13 32 | 4 10 | 4 44 | 27 7 | | | n.a. |
| W30 | 12 54 | 28 8 | 4 49 | 7 16 | 1 12 | 3 19 | 0n 1 | 3 5 | 1 10 | 20 13 | 0 49 | 19 36 | 1 42 | 20 20 | 0 41 | 3 48 | 2 1 | 0 9 | 13 32 | 4 12 | 4 45 | 27 6 | | | n.a. |
| T 31 | 13s15 | 25n40 | 4n14 | 7s57 | 1n 6 | 3n12 | 0n10 | 2n49 | 1n10 | 20n13 | 0n49 | 19s35 | 1s41 | 20s20 | 0s41 | 3n48 | 2s 1 | 0s 9 | 13s32 | 4s13 | 4s47 | 27s 5 | | | n.a. |

Julian Day Number = 1685901.5, Delta T = 03h13m01s
Ecliptic obliquity = 23°42'34, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°24'28, Lahiri = - 5°17'28 Julian Calendar 1 Oct. 98 BCE == Greg. Calendar 29 Sept. 098 BCE

The year -97 astronomical counting style corresponds to year 098 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 98 BCE
# geocentric

## NOVEMBER 98 BCE (-97) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 2 27 9 | 5♏45'03 | 8♌24 | 24♎20 | 23♍ 3 | 26♍17 | 4♌19 | 9♒58 | 3♒12 | 14°R 9 | 2°R44 | 19°D28 | 17♓59 | 17♉ 8 | n.a. | F 1 |
| S 2 | 2 31 5 | 6°46'01 | 22°21 | 25°54 | 23°44 | 26°56 | 4°23 | 10° 0 | 3°13 | 14♈ 7 | 2♉43 | 19♓29 | 17°56 | 17°14 | n.a. | S 2 |
| S 3 | 2 35 2 | 7°47'00 | 6♍ 7 | 27°27 | 24°25 | 27°35 | 4°27 | 10° 1 | 3°14 | 14° 6 | 2°42 | 19°30 | 17°53 | 17°21 | n.a. | S 3 |
| M 4 | 2 38 58 | 8°48'01 | 19°43 | 29° 1 | 25° 8 | 28°14 | 4°31 | 10° 3 | 3°15 | 14° 4 | 2°40 | 19°R31 | 17°50 | 17°28 | n.a. | M 4 |
| T 5 | 2 42 55 | 9°49'02 | 3♎ 9 | 0♏35 | 25°52 | 28°53 | 4°35 | 10° 5 | 3°16 | 14° 3 | 2°39 | 19°30 | 17°47 | 17°35 | n.a. | T 5 |
| W 6 | 2 46 51 | 10°50'05 | 16°24 | 2° 9 | 26°37 | 29°32 | 4°38 | 10° 7 | 3°17 | 14° 1 | 2°38 | 19°27 | 17°44 | 17°41 | n.a. | W 6 |
| T 7 | 2 50 48 | 11°51'09 | 29°28 | 3°42 | 27°23 | 0♎11 | 4°41 | 10° 9 | 3°18 | 14° 0 | 2°37 | 19°21 | 17°40 | 17°48 | n.a. | T 7 |
| F 8 | 2 54 45 | 12°52'15 | 12♏19 | 5°16 | 28°10 | 0°50 | 4°45 | 10°11 | 3°19 | 13°58 | 2°36 | 19°13 | 17°37 | 17°55 | n.a. | F 8 |
| S 9 | 2 58 41 | 13°53'21 | 24°59 | 6°50 | 28°58 | 1°29 | 4°48 | 10°14 | 3°20 | 13°57 | 2°35 | 19° 3 | 17°34 | 18° 1 | n.a. | S 9 |
| S 10 | 3 2 38 | 14°54'28 | 7♐26 | 8°24 | 29°47 | 2° 8 | 4°50 | 10°16 | 3°21 | 13°56 | 2°34 | 18°51 | 17°31 | 18° 8 | n.a. | S 10 |
| M11 | 3 6 34 | 15°55'36 | 19°40 | 9°58 | 0♎36 | 2°47 | 4°53 | 10°19 | 3°22 | 13°54 | 2°33 | 18°40 | 17°28 | 18°15 | n.a. | M11 |
| T 12 | 3 10 31 | 16°56'44 | 1♑44 | 11°32 | 1°27 | 3°26 | 4°55 | 10°22 | 3°24 | 13°53 | 2°32 | 18°31 | 17°25 | 18°21 | n.a. | T 12 |
| W13 | 3 14 27 | 17°57'53 | 13°39 | 13° 6 | 2°18 | 4° 5 | 4°58 | 10°24 | 3°25 | 13°52 | 2°30 | 18°23 | 17°21 | 18°28 | n.a. | W13 |
| T 14 | 3 18 24 | 18°59'03 | 25°30 | 14°40 | 3°10 | 4°44 | 5° 0 | 10°27 | 3°27 | 13°50 | 2°29 | 18°17 | 17°18 | 18°35 | n.a. | T 14 |
| F 15 | 3 22 20 | 20° 0'13 | 7♒19 | 16°14 | 4° 3 | 5°23 | 5° 2 | 10°30 | 3°28 | 13°49 | 2°28 | 18°14 | 17°15 | 18°42 | n.a. | F 15 |
| S 16 | 3 26 17 | 21° 1'23 | 19°13 | 17°48 | 4°56 | 6° 2 | 5° 3 | 10°33 | 3°30 | 13°48 | 2°27 | 18°D13 | 17°12 | 18°48 | n.a. | S 16 |
| S 17 | 3 30 14 | 22° 2'34 | 1♓16 | 19°22 | 5°50 | 6°41 | 5° 5 | 10°36 | 3°31 | 13°46 | 2°26 | 18°13 | 17° 9 | 18°55 | n.a. | S 17 |
| M18 | 3 34 10 | 23° 3'45 | 13°34 | 20°57 | 6°45 | 7°20 | 5° 6 | 10°39 | 3°33 | 13°45 | 2°25 | 18°R14 | 17° 5 | 19° 2 | n.a. | M18 |
| T 19 | 3 38 7 | 24° 4'56 | 26°11 | 22°31 | 7°41 | 7°59 | 5° 7 | 10°43 | 3°34 | 13°44 | 2°24 | 18°14 | 17° 2 | 19° 8 | n.a. | T 19 |
| W20 | 3 42 3 | 25° 6'07 | 9♈13 | 24° 6 | 8°37 | 8°38 | 5° 8 | 10°46 | 3°36 | 13°43 | 2°23 | 18°12 | 16°59 | 19°15 | n.a. | W20 |
| T 21 | 3 46 0 | 26° 7'19 | 22°42 | 25°41 | 9°33 | 9°17 | 5° 9 | 10°50 | 3°38 | 13°42 | 2°22 | 18° 7 | 16°56 | 19°22 | n.a. | T 21 |
| F 22 | 3 49 56 | 27° 8'31 | 6♉38 | 27°16 | 10°30 | 9°56 | 5° 9 | 10°53 | 3°40 | 13°40 | 2°21 | 18° 0 | 16°53 | 19°28 | n.a. | F 22 |
| S 23 | 3 53 53 | 28° 9'44 | 20°59 | 28°51 | 11°28 | 10°35 | 5° 9 | 10°57 | 3°42 | 13°39 | 2°20 | 17°50 | 16°50 | 19°35 | n.a. | S 23 |
| S 24 | 3 57 49 | 29°10'56 | 5♊39 | 0♐26 | 12°26 | 11°14 | 5°R 9 | 11° 1 | 3°43 | 13°38 | 2°19 | 17°39 | 16°46 | 19°42 | n.a. | S 24 |
| M25 | 4 1 46 | 0♐12'10 | 20°30 | 2° 2 | 13°25 | 11°53 | 5° 9 | 11° 5 | 3°45 | 13°37 | 2°18 | 17°28 | 16°43 | 19°49 | n.a. | M25 |
| T 26 | 4 5 43 | 1°13'23 | 5♋24 | 3°38 | 14°25 | 12°32 | 5° 9 | 11° 9 | 3°47 | 13°36 | 2°17 | 17°18 | 16°40 | 19°55 | n.a. | T 26 |
| W27 | 4 9 39 | 2°14'37 | 20°12 | 5°14 | 15°24 | 13°11 | 5° 9 | 11°13 | 3°49 | 13°35 | 2°16 | 17° 9 | 16°37 | 20° 2 | n.a. | W27 |
| T 28 | 4 13 36 | 3°15'52 | 4♌47 | 6°50 | 16°25 | 13°50 | 5° 8 | 11°17 | 3°51 | 13°34 | 2°15 | 17° 4 | 16°34 | 20° 9 | n.a. | T 28 |
| F 29 | 4 17 32 | 4°17'06 | 19° 4 | 8°27 | 17°25 | 14°29 | 5° 7 | 11°21 | 3°53 | 13°33 | 2°14 | 17° 1 | 16°31 | 20°15 | n.a. | F 29 |
| S 30 | 4 21 29 | 5♐18'22 | 3♍ 3 | 10♐ 4 | 18♎26 | 15♎ 8 | 5♌ 6 | 11♒25 | 3♒56 | 13♈32 | 2♉13 | 17°D 1 | 16♓27 | 20♉22 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 13s35 | 21n38 | 3n23 | 8s38 | 0n59 | 3n 4 | 0n19 | 2n33 | 1n10 | 20n12 | 0n49 | 19s34 | 1s41 | 20s20 | 0s41 | 3n47 | 2s 1 | 0s 9 | 13s31 | 4s13 | 4s48 | 27s 3 | | n.a. |
| S 2 | 13 56 | 16 26 | 2 21 | 9 18 | 0 52 | 2 56 | 0 27 | 2 18 | 1 9 | 20 11 | 0 50 | 19 34 | 1 41 | 20 19 | 0 41 | 3 46 | 2 1 | 0 10 | 13 31 | 4 12 | 4 49 | 27 2 | | n.a. |
| S 3 | 14 16 | 10 28 | 1 12 | 9 59 | 0 46 | 2 47 | 0 35 | 2 2 | 1 9 | 20 10 | 0 50 | 19 33 | 1 41 | 20 19 | 0 41 | 3 46 | 2 1 | 0 10 | 13 31 | 4 12 | 4 50 | 27 1 | | n.a. |
| M 4 | 14 36 | 4 6 | 0s 1 | 10 39 | 0 39 | 2 37 | 0 43 | 1 46 | 1 9 | 20 10 | 0 50 | 19 33 | 1 41 | 20 19 | 0 41 | 3 45 | 2 1 | 0 10 | 13 31 | 4 12 | 4 52 | 26 59 | | n.a. |
| T 5 | 14 55 | 2s23 | 1 13 | 11 18 | 0 32 | 2 26 | 0 51 | 1 30 | 1 9 | 20 9 | 0 50 | 19 32 | 1 41 | 20 19 | 0 41 | 3 45 | 2 1 | 0 11 | 13 31 | 4 12 | 4 53 | 26 58 | | n.a. |
| W 6 | 15 15 | 8 39 | 2 19 | 11 58 | 0 25 | 2 15 | 0 59 | 1 14 | 1 9 | 20 8 | 0 51 | 19 31 | 1 41 | 20 18 | 0 41 | 3 44 | 2 1 | 0 11 | 13 31 | 4 13 | 4 54 | 26 57 | | n.a. |
| T 7 | 15 34 | 14 28 | 3 17 | 12 36 | 0 18 | 2 3 | 1 6 | 0 59 | 1 9 | 20 8 | 0 51 | 19 31 | 1 41 | 20 18 | 0 41 | 3 44 | 2 1 | 0 11 | 13 31 | 4 16 | 4 55 | 26 55 | | n.a. |
| F 8 | 15 53 | 19 35 | 4 4 | 13 15 | 0 12 | 1 51 | 1 13 | 0 43 | 1 8 | 20 7 | 0 51 | 19 30 | 1 41 | 20 18 | 0 41 | 3 43 | 2 1 | 0 12 | 13 31 | 4 19 | 4 57 | 26 54 | | n.a. |
| S 9 | 16 11 | 23 43 | 4 38 | 13 52 | 0 5 | 1 38 | 1 19 | 0 27 | 1 8 | 20 7 | 0 51 | 19 29 | 1 40 | 20 18 | 0 41 | 3 43 | 2 1 | 0 12 | 13 31 | 4 23 | 4 58 | 26 53 | | n.a. |
| S 10 | 16 29 | 26 42 | 4 58 | 14 30 | 0s 2 | 1 24 | 1 26 | 0 11 | 1 8 | 20 6 | 0 52 | 19 28 | 1 40 | 20 17 | 0 41 | 3 42 | 2 1 | 0 12 | 13 31 | 4 27 | 4 59 | 26 51 | | n.a. |
| M11 | 16 47 | 28 21 | 5 4 | 15 6 | 0 9 | 1 10 | 1 32 | 0s 5 | 1 8 | 20 6 | 0 52 | 19 28 | 1 40 | 20 17 | 0 41 | 3 41 | 2 1 | 0 12 | 13 31 | 4 32 | 5 0 | 26 50 | | n.a. |
| T 12 | 17 5 | 28 38 | 4 56 | 15 42 | 0 15 | 0 55 | 1 38 | 0 21 | 1 8 | 20 6 | 0 52 | 19 27 | 1 40 | 20 17 | 0 41 | 3 41 | 2 1 | 0 13 | 13 31 | 4 36 | 5 2 | 26 48 | | n.a. |
| W13 | 17 23 | 27 34 | 4 35 | 16 17 | 0 22 | 0 39 | 1 44 | 0 36 | 1 8 | 20 5 | 0 52 | 19 26 | 1 40 | 20 16 | 0 41 | 3 41 | 2 1 | 0 13 | 13 31 | 4 39 | 5 3 | 26 47 | | n.a. |
| T 14 | 17 40 | 25 16 | 4 3 | 16 52 | 0 28 | 0 24 | 1 49 | 0 52 | 1 7 | 20 5 | 0 53 | 19 25 | 1 40 | 20 16 | 0 41 | 3 40 | 2 1 | 0 13 | 13 30 | 4 41 | 5 4 | 26 46 | | n.a. |
| F 15 | 17 56 | 21 52 | 3 20 | 17 26 | 0 34 | 0 7 | 1 54 | 1 8 | 1 7 | 20 5 | 0 53 | 19 24 | 1 40 | 20 15 | 0 41 | 3 40 | 2 1 | 0 13 | 13 30 | 4 42 | 5 5 | 26 44 | | n.a. |
| S 16 | 18 13 | 17 34 | 2 28 | 17 59 | 0 41 | 0s10 | 1 59 | 1 24 | 1 7 | 20 5 | 0 53 | 19 23 | 1 40 | 20 15 | 0 41 | 3 39 | 2 1 | 0 14 | 13 30 | 4 43 | 5 7 | 26 43 | | n.a. |
| S 17 | 18 29 | 12 32 | 1 29 | 18 31 | 0 47 | 0 27 | 2 4 | 1 40 | 1 7 | 20 5 | 0 53 | 19 22 | 1 40 | 20 15 | 0 41 | 3 39 | 2 1 | 0 14 | 13 30 | 4 43 | 5 8 | 26 41 | | n.a. |
| M18 | 18 45 | 6 55 | 0 25 | 19 2 | 0 53 | 0 45 | 2 9 | 1 55 | 1 7 | 20 5 | 0 54 | 19 21 | 1 40 | 20 14 | 0 41 | 3 38 | 2 1 | 0 14 | 13 30 | 4 42 | 5 9 | 26 40 | | n.a. |
| T 19 | 19 0 | 0 53 | 0n42 | 19 33 | 0 58 | 1 3 | 2 13 | 2 11 | 1 6 | 20 5 | 0 54 | 19 20 | 1 39 | 20 14 | 0 41 | 3 38 | 2 1 | 0 14 | 13 30 | 4 42 | 5 10 | 26 38 | | n.a. |
| W20 | 19 15 | 5n22 | 1 49 | 20 3 | 1 4 | 1 21 | 2 17 | 2 27 | 1 6 | 20 5 | 0 54 | 19 19 | 1 39 | 20 13 | 0 41 | 3 37 | 2 0 | 0 15 | 13 30 | 4 43 | 5 12 | 26 37 | | n.a. |
| T 21 | 19 30 | 11 35 | 2 52 | 20 31 | 1 10 | 1 40 | 2 21 | 2 43 | 1 6 | 20 5 | 0 55 | 19 18 | 1 39 | 20 13 | 0 41 | 3 37 | 2 0 | 0 15 | 13 30 | 4 45 | 5 13 | 26 36 | | n.a. |
| F 22 | 19 44 | 17 27 | 3 47 | 20 59 | 1 15 | 2 0 | 2 25 | 2 58 | 1 6 | 20 5 | 0 55 | 19 17 | 1 39 | 20 13 | 0 40 | 3 37 | 2 0 | 0 15 | 13 29 | 4 48 | 5 14 | 26 34 | | n.a. |
| S 23 | 19 58 | 22 31 | 4 29 | 21 26 | 1 20 | 2 19 | 2 28 | 3 14 | 1 5 | 20 5 | 0 55 | 19 16 | 1 39 | 20 12 | 0 40 | 3 36 | 2 0 | 0 15 | 13 29 | 4 52 | 5 15 | 26 33 | | n.a. |
| S 24 | 20 12 | 26 19 | 4 55 | 21 52 | 1 25 | 2 39 | 2 31 | 3 30 | 1 5 | 20 5 | 0 55 | 19 15 | 1 39 | 20 12 | 0 40 | 3 36 | 2 0 | 0 15 | 13 29 | 4 56 | 5 17 | 26 31 | | n.a. |
| M25 | 20 25 | 28 22 | 5 1 | 22 16 | 1 30 | 2 59 | 2 34 | 3 45 | 1 5 | 20 5 | 0 56 | 19 14 | 1 39 | 20 11 | 0 40 | 3 35 | 2 0 | 0 16 | 13 29 | 5 0 | 5 18 | 26 30 | | n.a. |
| T 26 | 20 38 | 28 22 | 4 46 | 22 40 | 1 34 | 3 20 | 2 37 | 4 1 | 1 5 | 20 6 | 0 56 | 19 12 | 1 39 | 20 11 | 0 40 | 3 35 | 2 0 | 0 16 | 13 29 | 5 4 | 5 19 | 26 28 | | n.a. |
| W27 | 20 51 | 26 20 | 4 13 | 23 2 | 1 39 | 3 41 | 2 40 | 4 17 | 1 4 | 20 6 | 0 56 | 19 11 | 1 39 | 20 10 | 0 40 | 3 35 | 2 0 | 0 16 | 13 29 | 5 8 | 5 20 | 26 27 | | n.a. |
| T 28 | 21 3 | 22 34 | 3 24 | 23 23 | 1 43 | 4 2 | 2 42 | 4 32 | 1 4 | 20 7 | 0 56 | 19 10 | 1 39 | 20 10 | 0 40 | 3 34 | 2 0 | 0 16 | 13 28 | 5 10 | 5 22 | 26 25 | | n.a. |
| F 29 | 21 14 | 17 31 | 2 22 | 23 43 | 1 47 | 4 23 | 2 45 | 4 48 | 1 4 | 20 7 | 0 57 | 19 9 | 1 38 | 20 9 | 0 40 | 3 34 | 2 0 | 0 16 | 13 28 | 5 11 | 5 23 | 26 24 | | n.a. |
| S 30 | 21s26 | 11n38 | 1n13 | 24s 2 | 1s50 | 4s44 | 2n47 | 5s 3 | 1n 4 | 20n 8 | 0n57 | 19s 7 | 1s38 | 20s 9 | 0s40 | 3n34 | 2s 0 | 0s16 | 13s28 | 5s11 | 5s24 | 26s22 | | n.a. |

Julian Day Number = 1685932.5, Delta T = 03h13m00s
Ecliptic obliquity = 23°42'34, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°24'24, Lahiri = - 5°17'24 Julian Calendar 1 Nov. 98 BCE == Greg. Calendar 30 Oct. 098 BCE

The year -97 astronomical counting style corresponds to year 098 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 98 BCE
# geocentric

## DECEMBER 98 BCE (-97) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 4 25 25 | 6♐19'37 | 16♍42 | 11♐41 | 19♎28 | 15♎47 | 5°R 5 | 11♒30 | 3♒58 | 13°R31 | 2°R12 | 17°R 1 | 16♓24 | 20♑29 | n.a. | S 1 |
| M 2 | 4 29 22 | 7°20'53 | 0♎ 4 | 13°18 | 20°30 | 16°27 | 5♌ 3 | 11°34 | 4° 0 | 13♈31 | 2♉11 | 17♓ 0 | 16°21 | 20°35 | n.a. | M 2 |
| T 3 | 4 33 19 | 8°22'09 | 13°11 | 14°56 | 21°32 | 17° 6 | 5° 2 | 11°39 | 4° 2 | 13°30 | 2°10 | 16°58 | 16°18 | 20°42 | n.a. | T 3 |
| W 4 | 4 37 15 | 9°23'25 | 26° 5 | 16°34 | 22°35 | 17°45 | 5° 0 | 11°44 | 4° 5 | 13°29 | 2°10 | 16°53 | 16°15 | 20°49 | n.a. | W 4 |
| T 5 | 4 41 12 | 10°24'42 | 8♏48 | 18°12 | 23°38 | 18°24 | 4°58 | 11°48 | 4° 7 | 13°28 | 2° 9 | 16°45 | 16°11 | 20°56 | n.a. | T 5 |
| F 6 | 4 45 8 | 11°25'58 | 21°21 | 19°50 | 24°41 | 19° 3 | 4°56 | 11°53 | 4° 9 | 13°27 | 2° 8 | 16°33 | 16° 8 | 21° 2 | n.a. | F 6 |
| S 7 | 4 49 5 | 12°27'15 | 3♐44 | 21°29 | 25°45 | 19°42 | 4°53 | 11°58 | 4°12 | 13°27 | 2° 7 | 16°20 | 16° 5 | 21° 9 | n.a. | S 7 |
| S 8 | 4 53 1 | 13°28'31 | 15°59 | 23° 8 | 26°49 | 20°21 | 4°51 | 12° 3 | 4°14 | 13°26 | 2° 6 | 16° 5 | 16° 2 | 21°16 | n.a. | S 8 |
| M 9 | 4 56 58 | 14°29'47 | 28° 5 | 24°46 | 27°53 | 21° 0 | 4°48 | 12° 8 | 4°17 | 13°25 | 2° 5 | 15°50 | 15°59 | 21°22 | n.a. | M 9 |
| T 10 | 5 0 54 | 15°31'03 | 10♑ 3 | 26°25 | 28°58 | 21°40 | 4°45 | 12°13 | 4°19 | 13°25 | 2° 5 | 15°36 | 15°56 | 21°29 | n.a. | T 10 |
| W11 | 5 4 51 | 16°32'18 | 21°56 | 28° 4 | 0♏ 3 | 22°19 | 4°42 | 12°18 | 4°22 | 13°24 | 2° 4 | 15°24 | 15°52 | 21°36 | n.a. | W11 |
| T 12 | 5 8 48 | 17°33'33 | 3♒45 | 29°43 | 1° 8 | 22°58 | 4°38 | 12°23 | 4°24 | 13°24 | 2° 3 | 15°16 | 15°49 | 21°42 | n.a. | T 12 |
| F 13 | 5 12 44 | 18°34'47 | 15°33 | 1♑21 | 2°13 | 23°37 | 4°35 | 12°29 | 4°27 | 13°23 | 2° 2 | 15°10 | 15°46 | 21°49 | n.a. | F 13 |
| S 14 | 5 16 41 | 19°36'00 | 27°24 | 2°59 | 3°19 | 24°16 | 4°31 | 12°34 | 4°30 | 13°23 | 2° 1 | 15° 7 | 15°43 | 21°56 | n.a. | S 14 |
| S 15 | 5 20 37 | 20°37'13 | 9♓24 | 4°37 | 4°25 | 24°55 | 4°27 | 12°40 | 4°32 | 13°22 | 2° 1 | 15° 6 | 15°40 | 22° 3 | n.a. | S 15 |
| M16 | 5 24 34 | 21°38'25 | 21°37 | 6°13 | 5°31 | 25°34 | 4°23 | 12°45 | 4°35 | 13°22 | 2° 0 | 15° 6 | 15°37 | 22° 9 | n.a. | M16 |
| T 17 | 5 28 30 | 22°39'36 | 4♈10 | 7°49 | 6°37 | 26°14 | 4°19 | 12°51 | 4°38 | 13°21 | 1°59 | 15° 6 | 15°33 | 22°16 | n.a. | T 17 |
| W18 | 5 32 27 | 23°40'46 | 17° 6 | 9°23 | 7°44 | 26°53 | 4°14 | 12°56 | 4°40 | 13°21 | 1°59 | 15° 4 | 15°30 | 22°23 | n.a. | W18 |
| T 19 | 5 36 23 | 24°41'55 | 0♉31 | 10°56 | 8°50 | 27°32 | 4°10 | 13° 2 | 4°43 | 13°21 | 1°58 | 15° 0 | 15°27 | 22°29 | n.a. | T 19 |
| F 20 | 5 40 20 | 25°43'04 | 14°26 | 12°27 | 9°57 | 28°11 | 4° 5 | 13° 8 | 4°46 | 13°20 | 1°57 | 14°53 | 15°24 | 22°36 | n.a. | F 20 |
| S 21 | 5 44 17 | 26°44'11 | 28°51 | 13°55 | 11° 5 | 28°50 | 4° 0 | 13°14 | 4°49 | 13°20 | 1°57 | 14°44 | 15°21 | 22°43 | n.a. | S 21 |
| S 22 | 5 48 13 | 27°45'18 | 13♊41 | 15°21 | 12°12 | 29°29 | 3°55 | 13°20 | 4°52 | 13°20 | 1°56 | 14°32 | 15°17 | 22°49 | n.a. | S 22 |
| M23 | 5 52 10 | 28°46'23 | 28°49 | 16°43 | 13°19 | 0♏ 9 | 3°50 | 13°26 | 4°55 | 13°20 | 1°56 | 14°21 | 15°14 | 22°56 | n.a. | M23 |
| T 24 | 5 56 6 | 29°47'28 | 14♋ 3 | 18° 1 | 14°27 | 0°48 | 3°44 | 13°32 | 4°58 | 13°20 | 1°55 | 14°10 | 15°11 | 23° 3 | n.a. | T 24 |
| W25 | 6 0 3 | 0♑48'33 | 29°14 | 19°14 | 15°35 | 1°27 | 3°39 | 13°38 | 5° 1 | 13°20 | 1°55 | 14° 2 | 15° 8 | 23°10 | n.a. | W25 |
| T 26 | 6 3 59 | 1°49'36 | 14♌11 | 20°22 | 16°43 | 2° 6 | 3°33 | 13°44 | 5° 4 | 13°20 | 1°54 | 13°56 | 15° 5 | 23°16 | n.a. | T 26 |
| F 27 | 6 7 56 | 2°50'39 | 28°47 | 21°23 | 17°52 | 2°45 | 3°27 | 13°50 | 5° 7 | 13°20 | 1°54 | 13°53 | 15° 2 | 23°23 | n.a. | F 27 |
| S 28 | 6 11 53 | 3°51'40 | 12♍59 | 22°18 | 19° 0 | 3°24 | 3°21 | 13°56 | 5°10 | 13°D19 | 1°53 | 13°D52 | 14°58 | 23°30 | n.a. | S 28 |
| S 29 | 6 15 49 | 4°52'42 | 26°45 | 23° 4 | 20° 9 | 4° 4 | 3°15 | 14° 3 | 5°13 | 13°20 | 1°53 | 13°53 | 14°55 | 23°36 | n.a. | S 29 |
| M30 | 6 19 46 | 5°53'42 | 10♎ 8 | 23°41 | 21°17 | 4°43 | 3° 9 | 14° 9 | 5°16 | 13°20 | 1°52 | 13°R53 | 14°52 | 23°43 | n.a. | M30 |
| T 31 | 6 23 42 | 6♑54'41 | 23♎10 | 24♑10 | 22♏26 | 5♏22 | 3♌ 3 | 14♒15 | 5♒19 | 13♈20 | 1♉52 | 13♓51 | 14♓49 | 23♑50 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| S 1 | 21s36 | 5n20 | 0n 2 | 24s19 | 1s53 | 5s 6 | 2n49 | 5s19 | 1n 3 | 20n 8 | 0n57 | 19s 6 | 1s38 | 20s 8 | 0s40 | 3n33 | 2s 0 | 0s16 | 13s28 | 5s11 | 5s25 | 26s21 | | | n.a. |
| M 2 | 21 47 | 1s 4 | 1s 8 | 24 35 | 1 56 | 5 28 | 2 50 | 5 34 | 1 3 | 20 9 | 0 58 | 19 5 | 1 38 | 20 7 | 0 40 | 3 33 | 2 0 | 0 17 | 13 28 | 5 11 | 5 27 | 26 19 | | | n.a. |
| T 3 | 21 57 | 7 19 | 2 14 | 24 49 | 1 59 | 5 50 | 2 52 | 5 50 | 1 3 | 20 9 | 0 58 | 19 3 | 1 38 | 20 7 | 0 40 | 3 33 | 2 0 | 0 17 | 13 27 | 5 12 | 5 28 | 26 17 | | | n.a. |
| W 4 | 22 7 | 13 8 | 3 11 | 25 2 | 2 1 | 6 12 | 2 53 | 6 5 | 1 2 | 20 10 | 0 58 | 19 2 | 1 38 | 20 6 | 0 40 | 3 33 | 2 0 | 0 17 | 13 27 | 5 14 | 5 29 | 26 16 | | | n.a. |
| T 5 | 22 16 | 18 20 | 3 57 | 25 13 | 2 3 | 6 34 | 2 55 | 6 20 | 1 2 | 20 11 | 0 58 | 19 0 | 1 38 | 20 6 | 0 40 | 3 32 | 2 0 | 0 17 | 13 27 | 5 17 | 5 30 | 26 14 | | | n.a. |
| F 6 | 22 24 | 22 39 | 4 31 | 25 23 | 2 5 | 6 57 | 2 56 | 6 36 | 1 2 | 20 12 | 0 59 | 18 59 | 1 38 | 20 5 | 0 40 | 3 32 | 2 0 | 0 17 | 13 27 | 5 22 | 5 32 | 26 13 | | | n.a. |
| S 7 | 22 33 | 25 55 | 4 52 | 25 31 | 2 6 | 7 19 | 2 57 | 6 51 | 1 1 | 20 13 | 0 59 | 18 58 | 1 38 | 20 4 | 0 40 | 3 32 | 2 0 | 0 17 | 13 27 | 5 27 | 5 33 | 26 11 | | | n.a. |
| S 8 | 22 40 | 27 55 | 4 59 | 25 38 | 2 7 | 7 42 | 2 57 | 7 6 | 1 1 | 20 13 | 0 59 | 18 56 | 1 38 | 20 4 | 0 40 | 3 32 | 1 59 | 0 17 | 13 26 | 5 33 | 5 34 | 26 10 | | | n.a. |
| M 9 | 22 48 | 28 34 | 4 52 | 25 43 | 2 7 | 8 4 | 2 58 | 7 21 | 1 1 | 20 14 | 0 59 | 18 55 | 1 38 | 20 3 | 0 40 | 3 31 | 1 59 | 0 17 | 13 26 | 5 39 | 5 35 | 26 8 | | | n.a. |
| T 10 | 22 55 | 27 51 | 4 33 | 25 46 | 2 6 | 8 27 | 2 58 | 7 36 | 1 0 | 20 15 | 1 0 | 18 53 | 1 38 | 20 3 | 0 40 | 3 31 | 1 59 | 0 17 | 13 26 | 5 44 | 5 37 | 26 6 | | | n.a. |
| W11 | 23 1 | 25 52 | 4 1 | 25 47 | 2 6 | 8 50 | 2 59 | 7 51 | 1 0 | 20 16 | 1 0 | 18 51 | 1 37 | 20 2 | 0 40 | 3 31 | 1 59 | 0 17 | 13 26 | 5 49 | 5 38 | 26 5 | | | n.a. |
| T 12 | 23 7 | 22 46 | 3 20 | 25 47 | 2 4 | 9 12 | 2 59 | 8 6 | 1 0 | 20 18 | 1 0 | 18 50 | 1 37 | 20 1 | 0 40 | 3 31 | 1 59 | 0 17 | 13 25 | 5 52 | 5 39 | 26 3 | | | n.a. |
| F 13 | 23 13 | 18 44 | 2 29 | 25 45 | 2 2 | 9 35 | 2 59 | 8 21 | 0 59 | 20 19 | 1 0 | 18 48 | 1 37 | 20 1 | 0 40 | 3 31 | 1 59 | 0 17 | 13 25 | 5 54 | 5 40 | 26 2 | | | n.a. |
| S 14 | 23 18 | 13 57 | 1 32 | 25 40 | 2 0 | 9 58 | 2 59 | 8 36 | 0 59 | 20 20 | 1 1 | 18 47 | 1 37 | 20 0 | 0 40 | 3 31 | 1 59 | 0 17 | 13 25 | 5 56 | 5 42 | 26 0 | | | n.a. |
| S 15 | 23 22 | 8 36 | 0 30 | 25 34 | 1 57 | 10 20 | 2 59 | 8 51 | 0 59 | 20 21 | 1 1 | 18 45 | 1 37 | 19 59 | 0 40 | 3 31 | 1 59 | 0 17 | 13 25 | 5 56 | 5 43 | 25 58 | | | n.a. |
| M16 | 23 27 | 2 50 | 0n34 | 25 26 | 1 53 | 10 43 | 2 58 | 9 6 | 0 58 | 20 22 | 1 1 | 18 43 | 1 37 | 19 59 | 0 40 | 3 30 | 1 59 | 0 17 | 13 24 | 5 56 | 5 44 | 25 57 | | | n.a. |
| T 17 | 23 30 | 3n11 | 1 39 | 25 17 | 1 48 | 11 5 | 2 58 | 9 20 | 0 58 | 20 23 | 1 1 | 18 42 | 1 37 | 19 58 | 0 40 | 3 30 | 1 59 | 0 17 | 13 24 | 5 56 | 5 45 | 25 55 | | | n.a. |
| W18 | 23 33 | 9 16 | 2 41 | 25 5 | 1 43 | 11 27 | 2 57 | 9 35 | 0 57 | 20 25 | 1 2 | 18 40 | 1 37 | 19 57 | 0 40 | 3 30 | 1 59 | 0 17 | 13 24 | 5 57 | 5 47 | 25 53 | | | n.a. |
| T 19 | 23 36 | 15 8 | 3 36 | 24 52 | 1 37 | 11 50 | 2 56 | 9 50 | 0 57 | 20 26 | 1 2 | 18 38 | 1 37 | 19 57 | 0 40 | 3 30 | 1 59 | 0 17 | 13 24 | 5 58 | 5 48 | 25 52 | | | n.a. |
| F 20 | 23 38 | 20 29 | 4 20 | 24 36 | 1 30 | 12 12 | 2 55 | 10 4 | 0 57 | 20 28 | 1 2 | 18 37 | 1 37 | 19 56 | 0 40 | 3 30 | 1 59 | 0 17 | 13 23 | 6 1 | 5 49 | 25 50 | | | n.a. |
| S 21 | 23 40 | 24 50 | 4 50 | 24 20 | 1 22 | 12 34 | 2 54 | 10 19 | 0 56 | 20 29 | 1 2 | 18 35 | 1 37 | 19 55 | 0 40 | 3 30 | 1 59 | 0 17 | 13 23 | 6 5 | 5 50 | 25 48 | | | n.a. |
| S 22 | 23 41 | 27 40 | 5 1 | 24 1 | 1 13 | 12 55 | 2 53 | 10 33 | 0 56 | 20 30 | 1 3 | 18 33 | 1 37 | 19 54 | 0 40 | 3 30 | 1 59 | 0 17 | 13 23 | 6 9 | 5 52 | 25 47 | | | n.a. |
| M23 | 23 42 | 28 34 | 4 51 | 23 42 | 1 3 | 13 17 | 2 52 | 10 47 | 0 55 | 20 32 | 1 3 | 18 31 | 1 37 | 19 54 | 0 40 | 3 30 | 1 59 | 0 17 | 13 23 | 6 14 | 5 53 | 25 45 | | | n.a. |
| T 24 | 23 43 | 27 17 | 4 21 | 23 21 | 0 52 | 13 39 | 2 50 | 11 1 | 0 55 | 20 33 | 1 3 | 18 29 | 1 37 | 19 53 | 0 40 | 3 30 | 1 58 | 0 17 | 13 22 | 6 18 | 5 54 | 25 43 | | | n.a. |
| W25 | 23 42 | 24 1 | 3 33 | 22 59 | 0 41 | 14 0 | 2 49 | 11 16 | 0 54 | 20 35 | 1 3 | 18 28 | 1 37 | 19 52 | 0 40 | 3 30 | 1 58 | 0 17 | 13 22 | 6 21 | 5 55 | 25 42 | | | n.a. |
| T 26 | 23 42 | 19 9 | 2 30 | 22 36 | 0 28 | 14 21 | 2 47 | 11 30 | 0 54 | 20 36 | 1 4 | 18 26 | 1 37 | 19 51 | 0 40 | 3 30 | 1 58 | 0 17 | 13 22 | 6 23 | 5 57 | 25 40 | | | n.a. |
| F 27 | 23 41 | 13 16 | 1 19 | 22 13 | 0 14 | 14 42 | 2 46 | 11 44 | 0 53 | 20 38 | 1 4 | 18 24 | 1 37 | 19 51 | 0 40 | 3 30 | 1 58 | 0 17 | 13 22 | 6 24 | 5 58 | 25 38 | | | n.a. |
| S 28 | 23 39 | 6 50 | 0 5 | 21 50 | 0n 0 | 15 2 | 2 44 | 11 58 | 0 53 | 20 40 | 1 4 | 18 22 | 1 36 | 19 50 | 0 40 | 3 30 | 1 58 | 0 17 | 13 21 | 6 25 | 5 59 | 25 36 | | | n.a. |
| S 29 | 23 37 | 0 16 | 1s 8 | 21 27 | 0 16 | 15 23 | 2 42 | 12 12 | 0 53 | 20 41 | 1 4 | 18 20 | 1 36 | 19 49 | 0 40 | 3 30 | 1 58 | 0 16 | 13 21 | 6 25 | 6 0 | 25 35 | | | n.a. |
| M30 | 23 35 | 6s 7 | 2 15 | 21 4 | 0 32 | 15 43 | 2 40 | 12 25 | 0 52 | 20 43 | 1 4 | 18 18 | 1 36 | 19 48 | 0 40 | 3 30 | 1 58 | 0 16 | 13 21 | 6 25 | 6 2 | 25 33 | | | n.a. |
| T 31 | 23s32 | 12s 5 | 3s13 | 20s43 | 0n50 | 16s 3 | 2n38 | 12s39 | 0n52 | 20n45 | 1n 5 | 18s16 | 1s36 | 19s48 | 0s40 | 3n31 | 1s58 | 0s16 | 13s20 | 6s25 | 6s 3 | 25s31 | | | n.a. |

Julian Day Number = 1685962.5, Delta T = 03h13m00s
Ecliptic obliquity = 23°42'33, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°24'20, Lahiri = - 5°17'20 Julian Calendar 1 Dec. 98 BCE == Greg. Calendar 29 Nov. 098 BCE

The year -97 astronomical counting style corresponds to year 098 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 97 BCE
# geocentric

## JANUARY 97 BCE (-96) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 6 27 39 | 7♑55'40 | 5♏54 | 24♑27 | 23♏35 | 6♏ 1 | 2°R56 | 14♒22 | 5♒22 | 13♈20 | 1°R52 | 13°R48 | 14♓46 | 23♑56 | n.a. | W 1 |
| T 2 | 6 31 35 | 8°56'38 | 18°24 | 24°R34 | 24°44 | 6°40 | 2♌50 | 14°28 | 5°25 | 13°20 | 1♉51 | 13♓42 | 14°43 | 24° 3 | n.a. | T 2 |
| F 3 | 6 35 32 | 9°57'35 | 0♐43 | 24°30 | 25°54 | 7°19 | 2°43 | 14°35 | 5°29 | 13°20 | 1°51 | 13°33 | 14°39 | 24°10 | n.a. | F 3 |
| S 4 | 6 39 28 | 10°58'31 | 12°53 | 24°15 | 27° 3 | 7°59 | 2°36 | 14°42 | 5°32 | 13°20 | 1°50 | 13°21 | 14°36 | 24°16 | n.a. | S 4 |
| S 5 | 6 43 25 | 11°59'26 | 24°56 | 23°48 | 28°13 | 8°38 | 2°29 | 14°48 | 5°35 | 13°21 | 1°50 | 13° 9 | 14°33 | 24°23 | n.a. | S 5 |
| M 6 | 6 47 22 | 13° 0'20 | 6♑53 | 23°12 | 29°22 | 9°17 | 2°22 | 14°55 | 5°38 | 13°21 | 1°50 | 12°57 | 14°30 | 24°30 | n.a. | M 6 |
| T 7 | 6 51 18 | 14° 1'12 | 18°46 | 22°25 | 0♐32 | 9°56 | 2°15 | 15° 2 | 5°42 | 13°21 | 1°50 | 12°45 | 14°27 | 24°37 | n.a. | T 7 |
| W 8 | 6 55 15 | 15° 2'03 | 0♒36 | 21°30 | 1°42 | 10°35 | 2° 8 | 15° 8 | 5°45 | 13°22 | 1°49 | 12°36 | 14°23 | 24°43 | n.a. | W 8 |
| T 9 | 6 59 11 | 16° 2'53 | 12°25 | 20°28 | 2°52 | 11°14 | 2° 0 | 15°15 | 5°48 | 13°22 | 1°49 | 12°29 | 14°20 | 24°50 | n.a. | T 9 |
| F 10 | 7 3 8 | 17° 3'41 | 24°15 | 19°22 | 4° 2 | 11°54 | 1°53 | 15°22 | 5°52 | 13°23 | 1°49 | 12°24 | 14°17 | 24°57 | n.a. | F 10 |
| S 11 | 7 7 4 | 18° 4'27 | 6♓ 8 | 18°12 | 5°12 | 12°33 | 1°46 | 15°29 | 5°55 | 13°23 | 1°49 | 12°22 | 14°14 | 25° 3 | n.a. | S 11 |
| S 12 | 7 11 1 | 19° 5'12 | 18°10 | 17° 0 | 6°22 | 13°12 | 1°38 | 15°36 | 5°58 | 13°24 | 1°49 | 12°D22 | 14°11 | 25°10 | n.a. | S 12 |
| M13 | 7 14 57 | 20° 5'55 | 0♈23 | 15°50 | 7°33 | 13°51 | 1°30 | 15°43 | 6° 2 | 13°24 | 1°49 | 12°23 | 14° 8 | 25°17 | n.a. | M13 |
| T 14 | 7 18 54 | 21° 6'36 | 12°53 | 14°42 | 8°43 | 14°30 | 1°23 | 15°50 | 6° 5 | 13°25 | 1°48 | 12°24 | 14° 4 | 25°23 | n.a. | T 14 |
| W15 | 7 22 51 | 22° 7'15 | 25°44 | 13°38 | 9°53 | 15° 9 | 1°15 | 15°57 | 6° 8 | 13°25 | 1°48 | 12°R24 | 14° 1 | 25°30 | n.a. | W15 |
| T 16 | 7 26 47 | 23° 7'53 | 9♉ 0 | 12°39 | 11° 4 | 15°48 | 1° 7 | 16° 4 | 6°12 | 13°26 | 1°48 | 12°23 | 13°58 | 25°37 | n.a. | T 16 |
| F 17 | 7 30 44 | 24° 8'28 | 22°46 | 11°47 | 12°15 | 16°27 | 1° 0 | 16°11 | 6°15 | 13°27 | 1°48 | 12°20 | 13°55 | 25°43 | n.a. | F 17 |
| S 18 | 7 34 40 | 25° 9'02 | 7♊ 0 | 11° 2 | 13°25 | 17° 6 | 0°52 | 16°18 | 6°18 | 13°27 | 1°D48 | 12°14 | 13°52 | 25°50 | n.a. | S 18 |
| S 19 | 7 38 37 | 26° 9'34 | 21°42 | 10°24 | 14°36 | 17°45 | 0°44 | 16°25 | 6°22 | 13°28 | 1°48 | 12° 8 | 13°49 | 25°57 | n.a. | S 19 |
| M20 | 7 42 33 | 27°10'04 | 6♋46 | 9°55 | 15°47 | 18°24 | 0°36 | 16°32 | 6°25 | 13°29 | 1°48 | 12° 1 | 13°45 | 26° 4 | n.a. | M20 |
| T 21 | 7 46 30 | 28°10'33 | 22° 2 | 9°32 | 16°58 | 19° 4 | 0°28 | 16°40 | 6°29 | 13°30 | 1°48 | 11°54 | 13°42 | 26°10 | n.a. | T 21 |
| W22 | 7 50 27 | 29°10'59 | 7♌21 | 9°18 | 18° 9 | 19°43 | 0°20 | 16°47 | 6°32 | 13°31 | 1°48 | 11°49 | 13°39 | 26°17 | n.a. | W22 |
| T 23 | 7 54 23 | 0♒11'24 | 22°31 | 9°10 | 19°20 | 20°22 | 0°12 | 16°54 | 6°36 | 13°32 | 1°48 | 11°45 | 13°36 | 26°24 | n.a. | T 23 |
| F 24 | 7 58 20 | 1°11'47 | 7♍23 | 9°D10 | 20°31 | 21° 1 | 0° 5 | 17° 1 | 6°39 | 13°33 | 1°49 | 11°D44 | 13°33 | 26°30 | n.a. | F 24 |
| S 25 | 8 2 16 | 2°12'08 | 21°50 | 9°16 | 21°42 | 21°40 | 29♋57 | 17° 9 | 6°42 | 13°33 | 1°49 | 11°44 | 13°29 | 26°37 | n.a. | S 25 |
| S 26 | 8 6 13 | 3°12'28 | 5♎50 | 9°29 | 22°53 | 22°19 | 29°49 | 17°16 | 6°46 | 13°34 | 1°49 | 11°45 | 13°26 | 26°44 | n.a. | S 26 |
| M27 | 8 10 9 | 4°12'47 | 19°23 | 9°47 | 24° 5 | 22°58 | 29°41 | 17°23 | 6°49 | 13°35 | 1°49 | 11°47 | 13°23 | 26°50 | n.a. | M27 |
| T 28 | 8 14 6 | 5°13'03 | 2♏31 | 10°11 | 25°16 | 23°37 | 29°33 | 17°30 | 6°53 | 13°37 | 1°49 | 11°R48 | 13°20 | 26°57 | n.a. | T 28 |
| W29 | 8 18 2 | 6°13'18 | 15°16 | 10°40 | 26°28 | 24°16 | 29°25 | 17°38 | 6°56 | 13°38 | 1°49 | 11°47 | 13°17 | 27° 4 | n.a. | W29 |
| T 30 | 8 21 59 | 7°13'32 | 27°43 | 11°14 | 27°39 | 24°55 | 29°17 | 17°45 | 7° 0 | 13°39 | 1°50 | 11°45 | 13°14 | 27°10 | n.a. | T 30 |
| F 31 | 8 25 56 | 8♒13'44 | 9♐56 | 11♑52 | 28♐51 | 25♏34 | 29♋10 | 17♒53 | 7♒ 3 | 13♈40 | 1♉50 | 11♓42 | 13♓10 | 27♑17 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| W 1 | 23s28 | 17s24 | 4s 0 | 20s22 | 1n 7 | 16s22 | 2n36 | 12s53 | 0n51 | 20n46 | 1n 5 | 18s14 | 1s36 | 19s47 | 0s40 | 3n31 | 1s58 | 0s16 | 13s20 | 6s27 | 6s 4 | 25s29 | | | n.a. |
| T 2 | 23 24 | 21 53 | 4 34 | 20 3 | 1 25 | 16 41 | 2 34 | 13 6 | 0 50 | 20 48 | 1 5 | 18 12 | 1 36 | 19 46 | 0 40 | 3 31 | 1 58 | 0 16 | 13 20 | 6 29 | 6 5 | 25 28 | | | n.a. |
| F 3 | 23 20 | 25 20 | 4 55 | 19 46 | 1 43 | 17 0 | 2 31 | 13 19 | 0 50 | 20 50 | 1 5 | 18 10 | 1 36 | 19 45 | 0 40 | 3 31 | 1 58 | 0 16 | 13 20 | 6 32 | 6 6 | 25 26 | | | n.a. |
| S 4 | 23 15 | 27 36 | 5 3 | 19 31 | 2 1 | 17 18 | 2 29 | 13 33 | 0 49 | 20 52 | 1 6 | 18 8 | 1 36 | 19 44 | 0 40 | 3 31 | 1 58 | 0 16 | 13 19 | 6 37 | 6 8 | 25 24 | | | n.a. |
| S 5 | 23 10 | 28 33 | 4 57 | 19 18 | 2 19 | 17 36 | 2 26 | 13 46 | 0 49 | 20 54 | 1 6 | 18 6 | 1 36 | 19 44 | 0 40 | 3 31 | 1 58 | 0 15 | 13 19 | 6 42 | 6 9 | 25 22 | | | n.a. |
| M 6 | 23 4 | 28 9 | 4 37 | 19 8 | 2 36 | 17 54 | 2 24 | 13 59 | 0 48 | 20 55 | 1 6 | 18 4 | 1 36 | 19 43 | 0 40 | 3 31 | 1 58 | 0 15 | 13 19 | 6 46 | 6 10 | 25 21 | | | n.a. |
| T 7 | 22 58 | 26 26 | 4 6 | 19 0 | 2 51 | 18 11 | 2 21 | 14 12 | 0 48 | 20 57 | 1 6 | 18 2 | 1 36 | 19 42 | 0 40 | 3 32 | 1 58 | 0 15 | 13 18 | 6 51 | 6 11 | 25 19 | | | n.a. |
| W 8 | 22 51 | 23 34 | 3 24 | 18 55 | 3 5 | 18 28 | 2 19 | 14 25 | 0 47 | 20 59 | 1 6 | 18 0 | 1 36 | 19 41 | 0 40 | 3 32 | 1 57 | 0 15 | 13 18 | 6 54 | 6 13 | 25 17 | | | n.a. |
| T 9 | 22 44 | 19 43 | 2 33 | 18 52 | 3 18 | 18 45 | 2 16 | 14 38 | 0 47 | 21 1 | 1 6 | 17 58 | 1 36 | 19 40 | 0 40 | 3 32 | 1 57 | 0 15 | 13 18 | 6 57 | 6 14 | 25 15 | | | n.a. |
| F 10 | 22 36 | 15 5 | 1 36 | 18 52 | 3 28 | 19 1 | 2 13 | 14 51 | 0 46 | 21 3 | 1 7 | 17 56 | 1 36 | 19 39 | 0 40 | 3 32 | 1 57 | 0 14 | 13 17 | 6 59 | 6 15 | 25 13 | | | n.a. |
| S 11 | 22 28 | 9 53 | 0 33 | 18 53 | 3 36 | 19 17 | 2 10 | 15 3 | 0 45 | 21 5 | 1 7 | 17 54 | 1 36 | 19 39 | 0 40 | 3 33 | 1 57 | 0 14 | 13 17 | 7 0 | 6 16 | 25 12 | | | n.a. |
| S 12 | 22 20 | 4 15 | 0n31 | 18 57 | 3 42 | 19 32 | 2 7 | 15 16 | 0 45 | 21 6 | 1 7 | 17 52 | 1 36 | 19 38 | 0 40 | 3 33 | 1 57 | 0 14 | 13 17 | 7 0 | 6 18 | 25 10 | | | n.a. |
| M13 | 22 11 | 1n37 | 1 35 | 19 2 | 3 45 | 19 46 | 2 4 | 15 28 | 0 44 | 21 8 | 1 7 | 17 50 | 1 36 | 19 37 | 0 40 | 3 33 | 1 57 | 0 14 | 13 17 | 6 59 | 6 19 | 25 8 | | | n.a. |
| T 14 | 22 2 | 7 33 | 2 37 | 19 9 | 3 46 | 20 1 | 2 1 | 15 41 | 0 44 | 21 10 | 1 7 | 17 48 | 1 36 | 19 36 | 0 40 | 3 33 | 1 57 | 0 13 | 13 16 | 6 59 | 6 20 | 25 6 | | | n.a. |
| W15 | 21 52 | 13 20 | 3 32 | 19 17 | 3 45 | 20 14 | 1 58 | 15 53 | 0 43 | 21 12 | 1 7 | 17 46 | 1 36 | 19 35 | 0 40 | 3 34 | 1 57 | 0 13 | 13 16 | 6 59 | 6 21 | 25 4 | | | n.a. |
| T 16 | 21 42 | 18 43 | 4 18 | 19 26 | 3 41 | 20 28 | 1 55 | 16 5 | 0 42 | 21 14 | 1 8 | 17 44 | 1 36 | 19 34 | 0 40 | 3 34 | 1 57 | 0 13 | 13 16 | 6 59 | 6 23 | 25 2 | | | n.a. |
| F 17 | 21 32 | 23 21 | 4 50 | 19 35 | 3 36 | 20 40 | 1 52 | 16 17 | 0 42 | 21 16 | 1 8 | 17 41 | 1 36 | 19 34 | 0 40 | 3 34 | 1 57 | 0 13 | 13 15 | 7 1 | 6 24 | 25 0 | | | n.a. |
| S 18 | 21 21 | 26 46 | 5 7 | 19 46 | 3 29 | 20 52 | 1 48 | 16 29 | 0 41 | 21 18 | 1 8 | 17 39 | 1 36 | 19 33 | 0 40 | 3 35 | 1 57 | 0 12 | 13 15 | 7 3 | 6 25 | 24 59 | | | n.a. |
| S 19 | 21 9 | 28 30 | 5 4 | 19 57 | 3 21 | 21 4 | 1 45 | 16 40 | 0 40 | 21 20 | 1 8 | 17 37 | 1 36 | 19 32 | 0 40 | 3 35 | 1 57 | 0 12 | 13 15 | 7 5 | 6 26 | 24 57 | | | n.a. |
| M20 | 20 58 | 28 12 | 4 40 | 20 9 | 3 12 | 21 15 | 1 42 | 16 52 | 0 40 | 21 21 | 1 8 | 17 35 | 1 36 | 19 31 | 0 40 | 3 35 | 1 57 | 0 12 | 13 14 | 7 8 | 6 27 | 24 55 | | | n.a. |
| T 21 | 20 46 | 25 46 | 3 56 | 20 20 | 3 2 | 21 26 | 1 39 | 17 4 | 0 39 | 21 23 | 1 8 | 17 33 | 1 36 | 19 30 | 0 40 | 3 36 | 1 57 | 0 11 | 13 14 | 7 11 | 6 29 | 24 53 | | | n.a. |
| W22 | 20 33 | 21 28 | 2 55 | 20 32 | 2 51 | 21 36 | 1 35 | 17 15 | 0 38 | 21 25 | 1 8 | 17 30 | 1 36 | 19 29 | 0 40 | 3 36 | 1 57 | 0 11 | 13 14 | 7 13 | 6 30 | 24 51 | | | n.a. |
| T 23 | 20 20 | 15 46 | 1 42 | 20 44 | 2 39 | 21 45 | 1 32 | 17 26 | 0 37 | 21 27 | 1 8 | 17 28 | 1 36 | 19 28 | 0 40 | 3 37 | 1 56 | 0 11 | 13 13 | 7 14 | 6 31 | 24 49 | | | n.a. |
| F 24 | 20 7 | 9 16 | 0 24 | 20 56 | 2 28 | 21 54 | 1 28 | 17 37 | 0 37 | 21 29 | 1 9 | 17 26 | 1 36 | 19 27 | 0 40 | 3 37 | 1 56 | 0 10 | 13 13 | 7 15 | 6 32 | 24 47 | | | n.a. |
| S 25 | 19 53 | 2 26 | 0s55 | 21 8 | 2 15 | 22 2 | 1 25 | 17 48 | 0 36 | 21 31 | 1 9 | 17 24 | 1 36 | 19 27 | 0 40 | 3 38 | 1 56 | 0 10 | 13 13 | 7 14 | 6 34 | 24 45 | | | n.a. |
| S 26 | 19 40 | 4s17 | 2 7 | 21 19 | 2 3 | 22 10 | 1 21 | 17 59 | 0 35 | 21 32 | 1 9 | 17 22 | 1 36 | 19 26 | 0 40 | 3 38 | 1 56 | 0 10 | 13 12 | 7 14 | 6 35 | 24 43 | | | n.a. |
| M27 | 19 25 | 10 36 | 3 10 | 21 30 | 1 51 | 22 17 | 1 18 | 18 10 | 0 34 | 21 34 | 1 9 | 17 19 | 1 36 | 19 25 | 0 40 | 3 38 | 1 56 | 0 9 | 13 12 | 7 13 | 6 36 | 24 42 | | | n.a. |
| T 28 | 19 11 | 16 15 | 4 2 | 21 40 | 1 39 | 22 23 | 1 14 | 18 21 | 0 34 | 21 36 | 1 9 | 17 17 | 1 36 | 19 24 | 0 40 | 3 39 | 1 56 | 0 9 | 13 12 | 7 13 | 6 37 | 24 40 | | | n.a. |
| W29 | 18 56 | 21 2 | 4 39 | 21 50 | 1 26 | 22 29 | 1 11 | 18 31 | 0 33 | 21 38 | 1 9 | 17 15 | 1 36 | 19 23 | 0 40 | 3 39 | 1 56 | 0 9 | 13 12 | 7 13 | 6 39 | 24 38 | | | n.a. |
| T 30 | 18 40 | 24 47 | 5 2 | 22 0 | 1 14 | 22 34 | 1 7 | 18 41 | 0 32 | 21 39 | 1 9 | 17 13 | 1 36 | 19 22 | 0 40 | 3 40 | 1 56 | 0 8 | 13 11 | 7 14 | 6 40 | 24 36 | | | n.a. |
| F 31 | 18s25 | 27s19 | 5s11 | 22s 8 | 1n 3 | 22s38 | 1n 4 | 18s52 | 0n31 | 21n41 | 1n 9 | 17s10 | 1s36 | 19s21 | 0s40 | 3n40 | 1s56 | 0s 8 | 13s11 | 7s15 | 6s41 | 24s34 | | | n.a. |

Julian Day Number = 1685993.5, Delta T = 03h12m59s
Ecliptic obliquity = 23°42'33, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°24'16, Lahiri = - 5°17'15 Julian Calendar 1 Jan. 97 BCE == Greg. Calendar 30 Dec. 098 BCE

The year -96 astronomical counting style corresponds to year 097 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 97 BCE
# geocentric

## FEBRUARY 97 BCE (-96) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 29 52 | 9♒13'54 | 21♐59 | 12♑35 | 0♑ 2 | 26♏12 | 29°R 2 | 18♒ 0 | 7♒ 7 | 13♈41 | 1♉50 | 11°R37 | 13♓ 7 | 27♑24 | n.a. | S 1 |
| S 2 | 8 33 49 | 10°14'03 | 3♑55 | 13°21 | 1°14 | 26°51 | 28♋54 | 18° 7 | 7°10 | 13°42 | 1°50 | 11♓31 | 13° 4 | 27°30 | n.a. | S 2 |
| M 3 | 8 37 45 | 11°14'10 | 15°46 | 14°10 | 2°25 | 27°30 | 28°47 | 18°15 | 7°14 | 13°43 | 1°51 | 11°25 | 13° 1 | 27°37 | n.a. | M 3 |
| T 4 | 8 41 42 | 12°14'15 | 27°35 | 15° 3 | 3°37 | 28° 9 | 28°39 | 18°22 | 7°17 | 13°45 | 1°51 | 11°20 | 12°58 | 27°44 | n.a. | T 4 |
| W 5 | 8 45 38 | 13°14'18 | 9♒25 | 15°59 | 4°49 | 28°48 | 28°32 | 18°30 | 7°20 | 13°46 | 1°51 | 11°15 | 12°55 | 27°51 | n.a. | W 5 |
| T 6 | 8 49 35 | 14°14'19 | 21°17 | 16°58 | 6° 1 | 29°27 | 28°24 | 18°37 | 7°24 | 13°47 | 1°52 | 11°12 | 12°51 | 27°57 | n.a. | T 6 |
| F 7 | 8 53 31 | 15°14'17 | 3♓13 | 17°59 | 7°12 | 0♐ 6 | 28°17 | 18°45 | 7°27 | 13°49 | 1°52 | 11°11 | 12°48 | 28° 4 | n.a. | F 7 |
| S 8 | 8 57 28 | 16°14'14 | 15°14 | 19° 3 | 8°24 | 0°45 | 28°10 | 18°52 | 7°31 | 13°50 | 1°53 | 11°D11 | 12°45 | 28°11 | n.a. | S 8 |
| S 9 | 9 1 25 | 17°14'09 | 27°25 | 20° 9 | 9°36 | 1°23 | 28° 3 | 18°59 | 7°34 | 13°51 | 1°53 | 11°12 | 12°42 | 28°17 | n.a. | S 9 |
| M10 | 9 5 21 | 18°14'01 | 9♈46 | 21°17 | 10°48 | 2° 2 | 27°56 | 19° 7 | 7°38 | 13°53 | 1°54 | 11°13 | 12°39 | 28°24 | n.a. | M10 |
| T 11 | 9 9 18 | 19°13'51 | 22°22 | 22°28 | 12° 0 | 2°41 | 27°49 | 19°14 | 7°41 | 13°54 | 1°54 | 11°15 | 12°35 | 28°31 | n.a. | T 11 |
| W12 | 9 13 14 | 20°13'39 | 5♉15 | 23°41 | 13°12 | 3°20 | 27°42 | 19°22 | 7°44 | 13°56 | 1°55 | 11°16 | 12°32 | 28°37 | n.a. | W12 |
| T 13 | 9 17 11 | 21°13'24 | 18°29 | 24°55 | 14°24 | 3°58 | 27°35 | 19°29 | 7°48 | 13°57 | 1°55 | 11°R17 | 12°29 | 28°44 | n.a. | T 13 |
| F 14 | 9 21 7 | 22°13'07 | 2♊ 5 | 26°11 | 15°36 | 4°37 | 27°28 | 19°37 | 7°51 | 13°59 | 1°56 | 11°16 | 12°26 | 28°51 | n.a. | F 14 |
| S 15 | 9 25 4 | 23°12'48 | 16° 7 | 27°29 | 16°48 | 5°15 | 27°22 | 19°44 | 7°55 | 14° 0 | 1°56 | 11°15 | 12°23 | 28°57 | n.a. | S 15 |
| S 16 | 9 29 0 | 24°12'26 | 0♋32 | 28°49 | 18° 0 | 5°54 | 27°15 | 19°52 | 7°58 | 14° 2 | 1°57 | 11°13 | 12°20 | 29° 4 | n.a. | S 16 |
| M17 | 9 32 57 | 25°12'02 | 15°17 | 0♒10 | 19°12 | 6°33 | 27° 9 | 19°59 | 8° 1 | 14° 4 | 1°58 | 11°11 | 12°16 | 29°11 | n.a. | M17 |
| T 18 | 9 36 53 | 26°11'36 | 0♌17 | 1°33 | 20°24 | 7°11 | 27° 3 | 20° 7 | 8° 5 | 14° 5 | 1°58 | 11° 9 | 12°13 | 29°17 | n.a. | T 18 |
| W19 | 9 40 50 | 27°11'07 | 15°24 | 2°57 | 21°37 | 7°50 | 26°57 | 20°14 | 8° 8 | 14° 7 | 1°59 | 11° 8 | 12°10 | 29°24 | n.a. | W19 |
| T 20 | 9 44 47 | 28°10'36 | 0♍28 | 4°23 | 22°49 | 8°28 | 26°51 | 20°21 | 8°11 | 14° 8 | 1°59 | 11° 7 | 12° 7 | 29°31 | n.a. | T 20 |
| F 21 | 9 48 43 | 29°10'03 | 15°20 | 5°51 | 24° 1 | 9° 7 | 26°45 | 20°29 | 8°14 | 14°10 | 2° 0 | 11°D 7 | 12° 4 | 29°37 | n.a. | F 21 |
| S 22 | 9 52 40 | 0♓ 9'27 | 29°54 | 7°20 | 25°13 | 9°45 | 26°40 | 20°36 | 8°18 | 14°12 | 2° 1 | 11° 7 | 12° 0 | 29°44 | n.a. | S 22 |
| S 23 | 9 56 36 | 1° 8'50 | 14♎ 3 | 8°50 | 26°25 | 10°24 | 26°34 | 20°44 | 8°21 | 14°14 | 2° 2 | 11° 8 | 11°57 | 29°51 | n.a. | S 23 |
| M24 | 10 0 33 | 2° 8'11 | 27°47 | 10°21 | 27°38 | 11° 2 | 26°29 | 20°51 | 8°24 | 14°15 | 2° 2 | 11° 9 | 11°54 | 29°58 | n.a. | M24 |
| T 25 | 10 4 29 | 3° 7'30 | 11♏ 3 | 11°54 | 28°50 | 11°40 | 26°24 | 20°58 | 8°27 | 14°17 | 2° 3 | 11°10 | 11°51 | 0♒ 4 | n.a. | T 25 |
| W26 | 10 8 26 | 4° 6'47 | 23°55 | 13°29 | 0♒ 2 | 12°19 | 26°19 | 21° 6 | 8°31 | 14°19 | 2° 4 | 11°10 | 11°48 | 0°11 | n.a. | W26 |
| T 27 | 10 12 22 | 5° 6'02 | 6♐26 | 15° 5 | 1°15 | 12°57 | 26°14 | 21°13 | 8°34 | 14°21 | 2° 5 | 11°R10 | 11°45 | 0°18 | n.a. | T 27 |
| F 28 | 10 16 19 | 6° 5'16 | 18°40 | 16°42 | 2°27 | 13°35 | 26° 9 | 21°20 | 8°37 | 14°23 | 2° 5 | 11°10 | 11°41 | 0°24 | n.a. | F 28 |
| S 29 | 10 20 16 | 7♓ 4'27 | 0♑42 | 18♒21 | 3♒40 | 14♐14 | 26♋ 5 | 21♒28 | 8♒40 | 14♈24 | 2♉ 6 | 11♓10 | 11♓38 | 0♒31 | n.a. | S 29 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 18s 9 | 28s34 | 5s 7 | 22s16 | 0n51 | 22s42 | 1n 0 | 19s 2 | 0n30 | 21n43 | 1n 9 | 17s 8 | 1s36 | 19s20 | 0s40 | 3n41 | 1s56 | 0s 8 | 13s11 | 7s17 | 6s42 | 24s32 | | n.a. |
| S 2 | 17 53 | 28 27 | 4 48 | 22 23 | 0 40 | 22 45 | 0 57 | 19 12 | 0 30 | 21 44 | 1 9 | 17 6 | 1 36 | 19 20 | 0 40 | 3 41 | 1 56 | 0 7 | 13 10 | 7 19 | 6 44 | 24 30 | | n.a. |
| M 3 | 17 36 | 27 2 | 4 18 | 22 29 | 0 28 | 22 48 | 0 53 | 19 22 | 0 29 | 21 46 | 1 9 | 17 3 | 1 36 | 19 19 | 0 40 | 3 42 | 1 56 | 0 7 | 13 10 | 7 22 | 6 45 | 24 28 | | n.a. |
| T 4 | 17 19 | 24 25 | 3 36 | 22 33 | 0 18 | 22 50 | 0 50 | 19 31 | 0 28 | 21 48 | 1 9 | 17 1 | 1 36 | 19 18 | 0 40 | 3 42 | 1 56 | 0 6 | 13 10 | 7 24 | 6 46 | 24 26 | | n.a. |
| W 5 | 17 2 | 20 45 | 2 45 | 22 37 | 0 7 | 22 51 | 0 46 | 19 41 | 0 27 | 21 49 | 1 9 | 16 59 | 1 36 | 19 17 | 0 40 | 3 43 | 1 56 | 0 6 | 13 9 | 7 25 | 6 47 | 24 24 | | n.a. |
| T 6 | 16 45 | 16 15 | 1 47 | 22 40 | 0s 3 | 22 52 | 0 43 | 19 50 | 0 26 | 21 51 | 1 10 | 16 56 | 1 36 | 19 16 | 0 40 | 3 44 | 1 56 | 0 6 | 13 9 | 7 27 | 6 48 | 24 22 | | n.a. |
| F 7 | 16 27 | 11 7 | 0 44 | 22 42 | 0 13 | 22 51 | 0 39 | 19 59 | 0 25 | 21 52 | 1 10 | 16 54 | 1 37 | 19 15 | 0 40 | 3 44 | 1 56 | 0 5 | 13 9 | 7 27 | 6 50 | 24 20 | | n.a. |
| S 8 | 16 9 | 5 32 | 0n22 | 22 43 | 0 23 | 22 51 | 0 36 | 20 8 | 0 24 | 21 54 | 1 10 | 16 52 | 1 37 | 19 14 | 0 40 | 3 45 | 1 56 | 0 5 | 13 9 | 7 27 | 6 51 | 24 18 | | n.a. |
| S 9 | 15 51 | 0n18 | 1 28 | 22 42 | 0 32 | 22 49 | 0 32 | 20 17 | 0 23 | 21 55 | 1 10 | 16 50 | 1 37 | 19 13 | 0 40 | 3 45 | 1 55 | 0 4 | 13 8 | 7 27 | 6 52 | 24 16 | | n.a. |
| M10 | 15 32 | 6 13 | 2 31 | 22 40 | 0 41 | 22 47 | 0 29 | 20 26 | 0 22 | 21 57 | 1 10 | 16 47 | 1 37 | 19 12 | 0 40 | 3 46 | 1 55 | 0 4 | 13 8 | 7 26 | 6 53 | 24 14 | | n.a. |
| T 11 | 15 13 | 12 0 | 3 28 | 22 37 | 0 49 | 22 44 | 0 25 | 20 35 | 0 21 | 21 58 | 1 10 | 16 45 | 1 37 | 19 12 | 0 40 | 3 47 | 1 55 | 0 3 | 13 8 | 7 26 | 6 55 | 24 12 | | n.a. |
| W12 | 14 54 | 17 25 | 4 16 | 22 33 | 0 57 | 22 41 | 0 22 | 20 43 | 0 20 | 22 0 | 1 10 | 16 43 | 1 37 | 19 11 | 0 40 | 3 47 | 1 55 | 0 3 | 13 7 | 7 25 | 6 56 | 24 10 | | n.a. |
| T 13 | 14 35 | 22 10 | 4 51 | 22 27 | 1 5 | 22 37 | 0 18 | 20 52 | 0 19 | 22 1 | 1 10 | 16 40 | 1 37 | 19 10 | 0 40 | 3 48 | 1 55 | 0 3 | 13 7 | 7 25 | 6 57 | 24 8 | | n.a. |
| F 14 | 14 16 | 25 54 | 5 12 | 22 20 | 1 12 | 22 32 | 0 15 | 21 0 | 0 18 | 22 2 | 1 10 | 16 38 | 1 37 | 19 9 | 0 40 | 3 48 | 1 55 | 0 2 | 13 7 | 7 25 | 6 58 | 24 6 | | n.a. |
| S 15 | 13 56 | 28 11 | 5 15 | 22 12 | 1 19 | 22 27 | 0 12 | 21 8 | 0 17 | 22 4 | 1 10 | 16 36 | 1 37 | 19 8 | 0 40 | 3 49 | 1 55 | 0 2 | 13 6 | 7 25 | 6 59 | 24 4 | | n.a. |
| S 16 | 13 36 | 28 41 | 4 58 | 22 2 | 1 26 | 22 21 | 0 8 | 21 16 | 0 16 | 22 5 | 1 10 | 16 33 | 1 37 | 19 7 | 0 40 | 3 50 | 1 55 | 0 1 | 13 6 | 7 26 | 7 1 | 24 2 | | n.a. |
| M17 | 13 16 | 27 9 | 4 22 | 21 51 | 1 32 | 22 14 | 0 5 | 21 24 | 0 15 | 22 6 | 1 10 | 16 31 | 1 37 | 19 6 | 0 40 | 3 50 | 1 55 | 0 1 | 13 6 | 7 27 | 7 2 | 24 0 | | n.a. |
| T 18 | 12 56 | 23 41 | 3 27 | 21 38 | 1 38 | 22 7 | 0 2 | 21 31 | 0 14 | 22 7 | 1 10 | 16 29 | 1 37 | 19 6 | 0 40 | 3 51 | 1 55 | 0 0 | 13 6 | 7 28 | 7 3 | 23 58 | | n.a. |
| W19 | 12 35 | 18 35 | 2 18 | 21 24 | 1 43 | 21 59 | 0s 2 | 21 39 | 0 13 | 22 9 | 1 10 | 16 26 | 1 37 | 19 5 | 0 40 | 3 52 | 1 55 | 0n 0 | 13 5 | 7 28 | 7 4 | 23 55 | | n.a. |
| T 20 | 12 14 | 12 21 | 0 59 | 21 8 | 1 48 | 21 50 | 0 5 | 21 46 | 0 12 | 22 10 | 1 10 | 16 24 | 1 37 | 19 4 | 0 40 | 3 53 | 1 55 | 0 1 | 13 5 | 7 29 | 7 6 | 23 53 | | n.a. |
| F 21 | 11 54 | 5 29 | 0s23 | 20 51 | 1 53 | 21 41 | 0 8 | 21 53 | 0 11 | 22 11 | 1 10 | 16 22 | 1 37 | 19 3 | 0 40 | 3 53 | 1 55 | 0 1 | 13 5 | 7 29 | 7 7 | 23 51 | | n.a. |
| S 22 | 11 33 | 1s31 | 1 42 | 20 32 | 1 57 | 21 31 | 0 11 | 22 0 | 0 10 | 22 12 | 1 10 | 16 19 | 1 37 | 19 2 | 0 40 | 3 54 | 1 55 | 0 2 | 13 4 | 7 28 | 7 8 | 23 49 | | n.a. |
| S 23 | 11 11 | 8 15 | 2 53 | 20 12 | 2 1 | 21 20 | 0 14 | 22 7 | 0 9 | 22 13 | 1 10 | 16 17 | 1 38 | 19 1 | 0 40 | 3 55 | 1 55 | 0 2 | 13 4 | 7 28 | 7 9 | 23 47 | | n.a. |
| M24 | 10 50 | 14 23 | 3 51 | 19 50 | 2 4 | 21 9 | 0 17 | 22 14 | 0 7 | 22 14 | 1 9 | 16 15 | 1 38 | 19 0 | 0 40 | 3 55 | 1 55 | 0 3 | 13 4 | 7 28 | 7 11 | 23 45 | | n.a. |
| T 25 | 10 28 | 19 39 | 4 35 | 19 27 | 2 7 | 20 57 | 0 20 | 22 20 | 0 6 | 22 15 | 1 9 | 16 12 | 1 38 | 19 0 | 0 40 | 3 56 | 1 55 | 0 3 | 13 4 | 7 28 | 7 12 | 23 43 | | n.a. |
| W26 | 10 7 | 23 51 | 5 3 | 19 2 | 2 10 | 20 45 | 0 23 | 22 26 | 0 5 | 22 16 | 1 9 | 16 10 | 1 38 | 18 59 | 0 40 | 3 57 | 1 55 | 0 4 | 13 3 | 7 27 | 7 13 | 23 41 | | n.a. |
| T 27 | 9 45 | 26 49 | 5 16 | 18 35 | 2 12 | 20 32 | 0 26 | 22 33 | 0 4 | 22 17 | 1 9 | 16 8 | 1 38 | 18 58 | 0 40 | 3 58 | 1 55 | 0 4 | 13 3 | 7 27 | 7 14 | 23 39 | | n.a. |
| F 28 | 9 23 | 28 27 | 5 15 | 18 7 | 2 13 | 20 19 | 0 29 | 22 39 | 0 3 | 22 17 | 1 9 | 16 6 | 1 38 | 18 57 | 0 40 | 3 58 | 1 55 | 0 5 | 13 3 | 7 27 | 7 15 | 23 37 | | n.a. |
| S 29 | 9s 1 | 28s42 | 4s59 | 17s38 | 2s14 | 20s 4 | 0s32 | 22s45 | 0n 1 | 22n18 | 1n 9 | 16s 3 | 1s38 | 18s56 | 0s40 | 3n59 | 1s55 | 0n 5 | 13s 3 | 7s28 | 7s17 | 23s34 | | n.a. |

Julian Day Number = 1686024.5, Delta T = 03h12m58s
Ecliptic obliquity = 23°42'33, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°24'12, Lahiri = - 5°17'11 Julian Calendar 1 Feb. 97 BCE == Greg. Calendar 30 Jan. 097 BCE

The year -96 astronomical counting style corresponds to year 097 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 97 BCE
# geocentric

## MARCH 97 BCE (-96) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 24 12 | 8♓ 3'37 | 12♉35 | 20♒ 1 | 4♒52 | 14♐52 | 26°R 0 | 21♒35 | 8♒43 | 14♈26 | 2♉ 7 | 11°R 9 | 11♓35 | 0♒38 | n.a. | S 1 |
| M 2 | 10 28 9 | 9° 2'45 | 24°24 | 21°42 | 6° 4 | 15°30 | 25♋56 | 21°42 | 8°46 | 14°28 | 2° 8 | 11♓ 9 | 11°32 | 0°44 | n.a. | M 2 |
| T 3 | 10 32 5 | 10° 1'50 | 6♒13 | 23°25 | 7°17 | 16° 8 | 25°52 | 21°49 | 8°49 | 14°30 | 2° 9 | 11° 9 | 11°29 | 0°51 | n.a. | T 3 |
| W 4 | 10 36 2 | 11° 0'54 | 18° 5 | 25° 9 | 8°29 | 16°46 | 25°48 | 21°57 | 8°53 | 14°32 | 2°10 | 11°D 9 | 11°26 | 0°58 | n.a. | W 4 |
| T 5 | 10 39 58 | 11°59'56 | 0♓ 2 | 26°55 | 9°42 | 17°24 | 25°45 | 22° 4 | 8°56 | 14°34 | 2°11 | 11° 9 | 11°22 | 1° 4 | n.a. | T 5 |
| F 6 | 10 43 55 | 12°58'55 | 12° 7 | 28°42 | 10°54 | 18° 2 | 25°41 | 22°11 | 8°59 | 14°36 | 2°12 | 11°R 9 | 11°19 | 1°11 | n.a. | F 6 |
| S 7 | 10 47 51 | 13°57'52 | 24°22 | 0♓30 | 12° 7 | 18°40 | 25°38 | 22°18 | 9° 2 | 14°38 | 2°13 | 11° 9 | 11°16 | 1°18 | n.a. | S 7 |
| S 8 | 10 51 48 | 14°56'48 | 6♈47 | 2°20 | 13°19 | 19°18 | 25°35 | 22°25 | 9° 5 | 14°40 | 2°14 | 11° 9 | 11°13 | 1°24 | n.a. | S 8 |
| M 9 | 10 55 44 | 15°55'41 | 19°25 | 4°12 | 14°32 | 19°55 | 25°32 | 22°32 | 9° 7 | 14°42 | 2°15 | 11° 8 | 11°10 | 1°31 | n.a. | M 9 |
| T 10 | 10 59 41 | 16°54'31 | 2♉16 | 6° 4 | 15°45 | 20°33 | 25°29 | 22°39 | 9°10 | 14°44 | 2°16 | 11° 7 | 11° 6 | 1°38 | n.a. | T 10 |
| W11 | 11 3 38 | 17°53'20 | 15°22 | 7°59 | 16°57 | 21°11 | 25°26 | 22°46 | 9°13 | 14°46 | 2°17 | 11° 7 | 11° 3 | 1°44 | n.a. | W11 |
| T 12 | 11 7 34 | 18°52'06 | 28°43 | 9°54 | 18°10 | 21°49 | 25°24 | 22°53 | 9°16 | 14°48 | 2°18 | 11° 6 | 11° 0 | 1°51 | n.a. | T 12 |
| F 13 | 11 11 31 | 19°50'50 | 12♊21 | 11°52 | 19°22 | 22°26 | 25°22 | 23° 0 | 9°19 | 14°50 | 2°19 | 11° 6 | 10°57 | 1°58 | n.a. | F 13 |
| S 14 | 11 15 27 | 20°49'32 | 26°16 | 13°50 | 20°35 | 23° 4 | 25°19 | 23° 7 | 9°22 | 14°52 | 2°20 | 11°D 6 | 10°54 | 2° 4 | n.a. | S 14 |
| S 15 | 11 19 24 | 21°48'11 | 10♋27 | 15°50 | 21°48 | 23°41 | 25°18 | 23°14 | 9°24 | 14°54 | 2°21 | 11° 6 | 10°51 | 2°11 | n.a. | S 15 |
| M16 | 11 23 20 | 22°46'48 | 24°52 | 17°52 | 23° 0 | 24°18 | 25°16 | 23°21 | 9°27 | 14°57 | 2°22 | 11° 7 | 10°47 | 2°18 | n.a. | M16 |
| T 17 | 11 27 17 | 23°45'22 | 9♌28 | 19°54 | 24°13 | 24°56 | 25°14 | 23°28 | 9°30 | 14°59 | 2°23 | 11° 8 | 10°44 | 2°24 | n.a. | T 17 |
| W18 | 11 31 13 | 24°43'55 | 24°10 | 21°58 | 25°25 | 25°33 | 25°13 | 23°34 | 9°33 | 15° 1 | 2°24 | 11° 9 | 10°41 | 2°31 | n.a. | W18 |
| T 19 | 11 35 10 | 25°42'24 | 8♍53 | 24° 3 | 26°38 | 26°10 | 25°12 | 23°41 | 9°35 | 15° 3 | 2°25 | 11°R 9 | 10°38 | 2°38 | n.a. | T 19 |
| F 20 | 11 39 7 | 26°40'52 | 23°30 | 26° 9 | 27°51 | 26°47 | 25°11 | 23°48 | 9°38 | 15° 5 | 2°26 | 11° 9 | 10°35 | 2°44 | n.a. | F 20 |
| S 21 | 11 43 3 | 27°39'18 | 7♎53 | 28°15 | 29° 3 | 27°25 | 25°10 | 23°55 | 9°40 | 15° 7 | 2°27 | 11° 8 | 10°32 | 2°51 | n.a. | S 21 |
| S 22 | 11 47 0 | 28°37'42 | 21°59 | 0♈23 | 0♓16 | 28° 2 | 25°10 | 24° 1 | 9°43 | 15° 9 | 2°29 | 11° 6 | 10°28 | 2°58 | n.a. | S 22 |
| M23 | 11 50 56 | 29°36'04 | 5♏43 | 2°30 | 1°29 | 28°38 | 25° 9 | 24° 8 | 9°46 | 15°12 | 2°30 | 11° 3 | 10°25 | 3° 4 | n.a. | M23 |
| T 24 | 11 54 53 | 0♈34'24 | 19° 4 | 4°38 | 2°42 | 29°15 | 25° 9 | 24°14 | 9°48 | 15°14 | 2°31 | 11° 1 | 10°22 | 3°11 | n.a. | T 24 |
| W25 | 11 58 49 | 1°32'43 | 2♐ 0 | 6°46 | 3°54 | 29°52 | 25°D 9 | 24°21 | 9°50 | 15°16 | 2°32 | 10°58 | 10°19 | 3°18 | n.a. | W25 |
| T 26 | 12 2 46 | 2°31'00 | 14°36 | 8°53 | 5° 7 | 0♑29 | 25° 9 | 24°27 | 9°53 | 15°18 | 2°33 | 10°56 | 10°16 | 3°25 | n.a. | T 26 |
| F 27 | 12 6 42 | 3°29'16 | 26°53 | 11° 0 | 6°20 | 1° 5 | 25°10 | 24°34 | 9°55 | 15°20 | 2°34 | 10°55 | 10°12 | 3°31 | n.a. | F 27 |
| S 28 | 12 10 39 | 4°27'30 | 8♑56 | 13° 6 | 7°33 | 1°42 | 25°10 | 24°40 | 9°58 | 15°23 | 2°36 | 10°D55 | 10° 9 | 3°38 | n.a. | S 28 |
| S 29 | 12 14 36 | 5°25'42 | 20°50 | 15°11 | 8°45 | 2°18 | 25°11 | 24°46 | 10° 0 | 15°25 | 2°37 | 10°56 | 10° 6 | 3°45 | n.a. | S 29 |
| M30 | 12 18 32 | 6°23'52 | 2♒40 | 17°14 | 9°58 | 2°55 | 25°12 | 24°52 | 10° 2 | 15°27 | 2°38 | 10°57 | 10° 3 | 3°51 | n.a. | M30 |
| T 31 | 12 22 29 | 7♈22'01 | 14♒29 | 19♈15 | 11♓11 | 3♑31 | 25♋13 | 24♒59 | 10♒ 4 | 15♈29 | 2♉39 | 10♓59 | 10♓ 0 | 3♒58 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| S 1 | 8s38 | 27s36 | 4s31 | 17s 6 | 2s15 | 19s50 | 0s35 | 22s50 | 0n 0 | 22n19 | 1n 9 | 16s 1 | 1s38 | 18s55 | 0s40 | 4n 0 | 1s54 | 0n 6 | 13s 2 | 7s28 | 7s18 | 23s32 | | | n.a. |
| M 2 | 8 16 | 25 16 | 3 51 | 16 33 | 2 15 | 19 34 | 0 38 | 22 56 | 0s 1 | 22 20 | 1 9 | 15 59 | 1 38 | 18 55 | 0 40 | 4 1 | 1 54 | 0 6 | 13 2 | 7 28 | 7 19 | 23 30 | | | n.a. |
| T 3 | 7 54 | 21 52 | 3 2 | 15 59 | 2 15 | 19 19 | 0 40 | 23 1 | 0 2 | 22 20 | 1 9 | 15 56 | 1 38 | 18 54 | 0 40 | 4 1 | 1 54 | 0 7 | 13 2 | 7 28 | 7 20 | 23 28 | | | n.a. |
| W 4 | 7 31 | 17 33 | 2 5 | 15 23 | 2 14 | 19 2 | 0 43 | 23 6 | 0 4 | 22 21 | 1 9 | 15 54 | 1 38 | 18 53 | 0 40 | 4 2 | 1 54 | 0 7 | 13 2 | 7 28 | 7 22 | 23 26 | | | n.a. |
| T 5 | 7 8 | 12 32 | 1 1 | 14 45 | 2 13 | 18 45 | 0 46 | 23 11 | 0 5 | 22 22 | 1 9 | 15 52 | 1 39 | 18 52 | 0 40 | 4 3 | 1 54 | 0 8 | 13 1 | 7 28 | 7 23 | 23 24 | | | n.a. |
| F 6 | 6 46 | 7 1 | 0n 5 | 14 6 | 2 11 | 18 28 | 0 48 | 23 16 | 0 7 | 22 22 | 1 9 | 15 50 | 1 39 | 18 51 | 0 40 | 4 4 | 1 54 | 0 8 | 13 1 | 7 28 | 7 24 | 23 21 | | | n.a. |
| S 7 | 6 23 | 1 9 | 1 13 | 13 25 | 2 8 | 18 10 | 0 51 | 23 21 | 0 8 | 22 23 | 1 9 | 15 47 | 1 39 | 18 51 | 0 40 | 4 5 | 1 54 | 0 9 | 13 1 | 7 28 | 7 25 | 23 19 | | | n.a. |
| S 8 | 6 0 | 4n49 | 2 18 | 12 43 | 2 6 | 17 51 | 0 53 | 23 26 | 0 9 | 22 23 | 1 9 | 15 45 | 1 39 | 18 50 | 0 40 | 4 5 | 1 54 | 0 10 | 13 1 | 7 28 | 7 26 | 23 17 | | | n.a. |
| M 9 | 5 37 | 10 42 | 3 17 | 11 58 | 2 2 | 17 32 | 0 55 | 23 30 | 0 11 | 22 24 | 1 9 | 15 43 | 1 39 | 18 49 | 0 40 | 4 6 | 1 54 | 0 10 | 13 0 | 7 28 | 7 28 | 23 15 | | | n.a. |
| T 10 | 5 14 | 16 15 | 4 7 | 11 13 | 1 58 | 17 13 | 0 58 | 23 34 | 0 12 | 22 24 | 1 9 | 15 41 | 1 39 | 18 48 | 0 40 | 4 7 | 1 54 | 0 11 | 13 0 | 7 28 | 7 29 | 23 13 | | | n.a. |
| W11 | 4 50 | 21 10 | 4 46 | 10 26 | 1 54 | 16 53 | 1 0 | 23 38 | 0 14 | 22 25 | 1 8 | 15 38 | 1 39 | 18 48 | 0 40 | 4 8 | 1 54 | 0 11 | 13 0 | 7 29 | 7 30 | 23 11 | | | n.a. |
| T 12 | 4 27 | 25 8 | 5 10 | 9 37 | 1 49 | 16 32 | 1 2 | 23 42 | 0 15 | 22 25 | 1 8 | 15 36 | 1 39 | 18 47 | 0 40 | 4 9 | 1 54 | 0 12 | 13 0 | 7 29 | 7 31 | 23 8 | | | n.a. |
| F 13 | 4 4 | 27 46 | 5 17 | 8 47 | 1 43 | 16 12 | 1 4 | 23 46 | 0 17 | 22 25 | 1 8 | 15 34 | 1 40 | 18 46 | 0 40 | 4 10 | 1 54 | 0 12 | 13 0 | 7 29 | 7 33 | 23 6 | | | n.a. |
| S 14 | 3 41 | 28 45 | 5 6 | 7 55 | 1 37 | 15 50 | 1 6 | 23 50 | 0 18 | 22 26 | 1 8 | 15 32 | 1 40 | 18 45 | 0 40 | 4 10 | 1 54 | 0 13 | 12 59 | 7 29 | 7 34 | 23 4 | | | n.a. |
| S 15 | 3 17 | 27 53 | 4 36 | 7 2 | 1 31 | 15 29 | 1 8 | 23 53 | 0 20 | 22 26 | 1 8 | 15 30 | 1 40 | 18 45 | 0 40 | 4 11 | 1 54 | 0 13 | 12 59 | 7 29 | 7 35 | 23 2 | | | n.a. |
| M16 | 2 54 | 25 9 | 3 49 | 6 8 | 1 23 | 15 6 | 1 10 | 23 56 | 0 21 | 22 26 | 1 8 | 15 28 | 1 40 | 18 44 | 0 40 | 4 12 | 1 54 | 0 14 | 12 59 | 7 29 | 7 36 | 22 59 | | | n.a. |
| T 17 | 2 30 | 20 46 | 2 47 | 5 12 | 1 16 | 14 44 | 1 12 | 23 59 | 0 23 | 22 26 | 1 8 | 15 25 | 1 40 | 18 43 | 0 40 | 4 13 | 1 54 | 0 14 | 12 59 | 7 28 | 7 37 | 22 57 | | | n.a. |
| W18 | 2 7 | 15 4 | 1 33 | 4 15 | 1 8 | 14 21 | 1 14 | 24 2 | 0 24 | 22 27 | 1 8 | 15 23 | 1 40 | 18 43 | 0 40 | 4 14 | 1 54 | 0 15 | 12 59 | 7 28 | 7 39 | 22 55 | | | n.a. |
| T 19 | 1 43 | 8 31 | 0 13 | 3 18 | 0 59 | 13 57 | 1 15 | 24 5 | 0 26 | 22 27 | 1 8 | 15 21 | 1 40 | 18 42 | 0 40 | 4 15 | 1 54 | 0 16 | 12 58 | 7 28 | 7 40 | 22 53 | | | n.a. |
| F 20 | 1 20 | 1 35 | 1s 8 | 2 19 | 0 50 | 13 34 | 1 17 | 24 8 | 0 28 | 22 27 | 1 8 | 15 19 | 1 40 | 18 41 | 0 40 | 4 16 | 1 54 | 0 16 | 12 58 | 7 28 | 7 41 | 22 51 | | | n.a. |
| S 21 | 0 57 | 5s21 | 2 23 | 1 19 | 0 41 | 13 10 | 1 19 | 24 10 | 0 29 | 22 27 | 1 8 | 15 17 | 1 41 | 18 41 | 0 40 | 4 16 | 1 54 | 0 17 | 12 58 | 7 28 | 7 42 | 22 48 | | | n.a. |
| S 22 | 0 33 | 11 51 | 3 27 | 0 19 | 0 31 | 12 45 | 1 20 | 24 13 | 0 31 | 22 27 | 1 7 | 15 15 | 1 41 | 18 40 | 0 40 | 4 17 | 1 54 | 0 17 | 12 58 | 7 29 | 7 43 | 22 46 | | | n.a. |
| M23 | 0 10 | 17 37 | 4 18 | 0n42 | 0 21 | 12 20 | 1 22 | 24 15 | 0 33 | 22 27 | 1 7 | 15 13 | 1 41 | 18 39 | 0 40 | 4 18 | 1 54 | 0 18 | 12 58 | 7 30 | 7 45 | 22 44 | | | n.a. |
| T 24 | 0n14 | 22 22 | 4 52 | 1 43 | 0 10 | 11 55 | 1 23 | 24 17 | 0 34 | 22 27 | 1 7 | 15 11 | 1 41 | 18 39 | 0 40 | 4 19 | 1 54 | 0 18 | 12 57 | 7 31 | 7 46 | 22 41 | | | n.a. |
| W25 | 0 37 | 25 52 | 5 11 | 2 43 | 0n 1 | 11 30 | 1 24 | 24 19 | 0 36 | 22 27 | 1 7 | 15 9 | 1 41 | 18 38 | 0 40 | 4 20 | 1 54 | 0 19 | 12 57 | 7 32 | 7 47 | 22 39 | | | n.a. |
| T 26 | 1 1 | 28 1 | 5 15 | 3 44 | 0 11 | 11 4 | 1 26 | 24 20 | 0 38 | 22 26 | 1 7 | 15 7 | 1 41 | 18 37 | 0 41 | 4 21 | 1 54 | 0 19 | 12 57 | 7 33 | 7 48 | 22 37 | | | n.a. |
| F 27 | 1 24 | 28 43 | 5 3 | 4 45 | 0 22 | 10 38 | 1 27 | 24 22 | 0 40 | 22 26 | 1 7 | 15 5 | 1 42 | 18 37 | 0 41 | 4 22 | 1 54 | 0 20 | 12 57 | 7 33 | 7 50 | 22 35 | | | n.a. |
| S 28 | 1 47 | 28 2 | 4 38 | 5 44 | 0 33 | 10 11 | 1 28 | 24 23 | 0 42 | 22 26 | 1 7 | 15 3 | 1 42 | 18 36 | 0 41 | 4 22 | 1 54 | 0 21 | 12 57 | 7 33 | 7 51 | 22 32 | | | n.a. |
| S 29 | 2 11 | 26 3 | 4 2 | 6 43 | 0 44 | 9 45 | 1 29 | 24 25 | 0 43 | 22 26 | 1 7 | 15 1 | 1 42 | 18 36 | 0 41 | 4 23 | 1 54 | 0 21 | 12 57 | 7 33 | 7 52 | 22 30 | | | n.a. |
| M30 | 2 34 | 22 57 | 3 16 | 7 41 | 0 55 | 9 18 | 1 30 | 24 26 | 0 45 | 22 26 | 1 7 | 14 59 | 1 42 | 18 35 | 0 41 | 4 24 | 1 54 | 0 22 | 12 56 | 7 32 | 7 53 | 22 28 | | | n.a. |
| T 31 | 2n57 | 18s55 | 2s21 | 8n38 | 1n 6 | 8s51 | 1s31 | 24s27 | 0s47 | 22n25 | 1n 6 | 14s57 | 1s42 | 18s34 | 0s41 | 4n25 | 1s54 | 0n22 | 12s56 | 7s32 | 7s54 | 22s25 | | | n.a. |

Julian Day Number = 1686053.5, Delta T = 03h12m57s
Ecliptic obliquity = 23°42'34, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°24'08, Lahiri = - 5°17'07 Julian Calendar 1 March 97 BCE == Greg. Calendar 28 Feb. 097 BCE

The year -96 astronomical counting style corresponds to year 097 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 97 BCE
# geocentric

## APRIL 97 BCE (-96) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 12 26 25 | 8♈20'09 | 26♒24 | 21♈14 | 12♓24 | 4♉ 7 | 25♋14 | 25♒ 5 | 10♒ 7 | 15♈32 | 2♉41 | 11♓ 0 | 9♓57 | 4♒ 5 | n.a. | W 1 |
| T 2 | 12 30 22 | 9°18'14 | 8♓27 | 23°11 | 13°36 | 4°43 | 25°16 | 25°11 | 10° 9 | 15°34 | 2°42 | 11°R 1 | 9°53 | 4°11 | n.a. | T 2 |
| F 3 | 12 34 18 | 10°16'18 | 20°42 | 25° 5 | 14°49 | 5°19 | 25°17 | 25°17 | 10°11 | 15°36 | 2°43 | 11° 1 | 9°50 | 4°18 | n.a. | F 3 |
| S 4 | 12 38 15 | 11°14'21 | 3♈11 | 26°56 | 16° 2 | 5°55 | 25°19 | 25°23 | 10°13 | 15°38 | 2°44 | 10°59 | 9°47 | 4°25 | n.a. | S 4 |
| S 5 | 12 42 11 | 12°12'22 | 15°55 | 28°44 | 17°15 | 6°31 | 25°21 | 25°29 | 10°15 | 15°41 | 2°46 | 10°56 | 9°44 | 4°31 | n.a. | S 5 |
| M 6 | 12 46 8 | 13°10'21 | 28°54 | 0♉29 | 18°28 | 7° 6 | 25°23 | 25°35 | 10°17 | 15°43 | 2°47 | 10°51 | 9°41 | 4°38 | n.a. | M 6 |
| T 7 | 12 50 4 | 14° 8'18 | 12♉ 8 | 2°10 | 19°41 | 7°42 | 25°26 | 25°40 | 10°19 | 15°45 | 2°48 | 10°46 | 9°37 | 4°45 | n.a. | T 7 |
| W 8 | 12 54 1 | 15° 6'13 | 25°36 | 3°48 | 20°54 | 8°17 | 25°28 | 25°46 | 10°21 | 15°47 | 2°50 | 10°41 | 9°34 | 4°51 | n.a. | W 8 |
| T 9 | 12 57 58 | 16° 4'07 | 9♊16 | 5°23 | 22° 6 | 8°53 | 25°31 | 25°52 | 10°23 | 15°50 | 2°51 | 10°36 | 9°31 | 4°58 | n.a. | T 9 |
| F 10 | 13 1 54 | 17° 1'59 | 23° 6 | 6°53 | 23°19 | 9°28 | 25°34 | 25°57 | 10°25 | 15°52 | 2°52 | 10°32 | 9°28 | 5° 5 | n.a. | F 10 |
| S 11 | 13 5 51 | 17°59'49 | 7♋ 5 | 8°20 | 24°32 | 10° 3 | 25°37 | 26° 3 | 10°26 | 15°54 | 2°53 | 10°30 | 9°25 | 5°11 | n.a. | S 11 |
| S 12 | 13 9 47 | 18°57'38 | 21°11 | 9°44 | 25°45 | 10°37 | 25°40 | 26° 9 | 10°28 | 15°56 | 2°55 | 10°D30 | 9°22 | 5°18 | n.a. | S 12 |
| M13 | 13 13 44 | 19°55'24 | 5♌23 | 11° 3 | 26°58 | 11°12 | 25°43 | 26°14 | 10°30 | 15°59 | 2°56 | 10°30 | 9°18 | 5°25 | n.a. | M13 |
| T 14 | 13 17 40 | 20°53'08 | 19°39 | 12°18 | 28°11 | 11°47 | 25°47 | 26°19 | 10°31 | 16° 1 | 2°57 | 10°32 | 9°15 | 5°31 | n.a. | T 14 |
| W15 | 13 21 37 | 21°50'51 | 3♍57 | 13°29 | 29°24 | 12°21 | 25°51 | 26°25 | 10°33 | 16° 3 | 2°59 | 10°R33 | 9°12 | 5°38 | n.a. | W15 |
| T 16 | 13 25 34 | 22°48'32 | 18°13 | 14°37 | 0♈37 | 12°56 | 25°54 | 26°30 | 10°35 | 16° 5 | 3° 0 | 10°33 | 9° 9 | 5°45 | n.a. | T 16 |
| F 17 | 13 29 30 | 23°46'11 | 2♎24 | 15°40 | 1°50 | 13°30 | 25°58 | 26°35 | 10°36 | 16° 8 | 3° 1 | 10°31 | 9° 6 | 5°51 | n.a. | F 17 |
| S 18 | 13 33 27 | 24°43'49 | 16°26 | 16°39 | 3° 2 | 14° 4 | 26° 3 | 26°40 | 10°38 | 16°10 | 3° 3 | 10°27 | 9° 3 | 5°58 | n.a. | S 18 |
| S 19 | 13 37 23 | 25°41'25 | 0♏16 | 17°33 | 4°15 | 14°38 | 26° 7 | 26°45 | 10°39 | 16°12 | 3° 4 | 10°21 | 8°59 | 6° 5 | n.a. | S 19 |
| M20 | 13 41 20 | 26°39'00 | 13°49 | 18°24 | 5°28 | 15°11 | 26°12 | 26°50 | 10°41 | 16°14 | 3° 6 | 10°14 | 8°56 | 6°11 | n.a. | M20 |
| T 21 | 13 45 16 | 27°36'34 | 27° 3 | 19° 9 | 6°41 | 15°45 | 26°16 | 26°55 | 10°42 | 16°16 | 3° 7 | 10° 6 | 8°53 | 6°18 | n.a. | T 21 |
| W22 | 13 49 13 | 28°34'07 | 9♐57 | 19°51 | 7°54 | 16°18 | 26°21 | 27° 0 | 10°43 | 16°19 | 3° 8 | 9°58 | 8°50 | 6°25 | n.a. | W22 |
| T 23 | 13 53 9 | 29°31'38 | 22°31 | 20°28 | 9° 7 | 16°51 | 26°26 | 27° 5 | 10°44 | 16°21 | 3°10 | 9°51 | 8°47 | 6°31 | n.a. | T 23 |
| F 24 | 13 57 6 | 0♑29'09 | 4♑49 | 21° 0 | 10°20 | 17°24 | 26°31 | 27° 9 | 10°46 | 16°23 | 3°11 | 9°46 | 8°43 | 6°38 | n.a. | F 24 |
| S 25 | 14 1 3 | 1°26'39 | 16°53 | 21°28 | 11°33 | 17°57 | 26°37 | 27°14 | 10°47 | 16°25 | 3°12 | 9°43 | 8°40 | 6°45 | n.a. | S 25 |
| S 26 | 14 4 59 | 2°24'07 | 28°47 | 21°51 | 12°46 | 18°30 | 26°42 | 27°18 | 10°48 | 16°28 | 3°14 | 9°D42 | 8°37 | 6°51 | n.a. | S 26 |
| M27 | 14 8 56 | 3°21'35 | 10♒37 | 22°10 | 13°59 | 19° 2 | 26°48 | 27°23 | 10°49 | 16°30 | 3°15 | 9°42 | 8°34 | 6°58 | n.a. | M27 |
| T 28 | 14 12 52 | 4°19'02 | 22°28 | 22°23 | 15°12 | 19°35 | 26°53 | 27°27 | 10°50 | 16°32 | 3°16 | 9°43 | 8°31 | 7° 5 | n.a. | T 28 |
| W29 | 14 16 49 | 5°16'28 | 4♓24 | 22°32 | 16°25 | 20° 7 | 26°59 | 27°31 | 10°51 | 16°34 | 3°18 | 9°R44 | 8°28 | 7°11 | n.a. | W29 |
| T 30 | 14 20 45 | 6♉13'53 | 16♓32 | 22°R37 | 17♈38 | 20♉38 | 27♋ 5 | 27♒36 | 10♒52 | 16♈36 | 3♉19 | 9♓44 | 8♓24 | 7♒18 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| W 1 | 3n21 | 14s 6 | 1s19 | 9n33 | 1n16 | 8s23 | 1s31 | 24s28 | 0s49 | 22n25 | 1n 6 | 14s55 | 1s42 | 18s34 | 0s41 | 4n26 | 1s54 | 0n23 | 12s56 | 7s31 | 7s56 | 22s23 | | n.a. | W 1 |
| T 2 | 3 44 | 8 43 | 0 14 | 10 26 | 1 26 | 7 56 | 1 32 | 24 28 | 0 51 | 22 25 | 1 6 | 14 53 | 1 43 | 18 33 | 0 41 | 4 27 | 1 54 | 0 23 | 12 56 | 7 31 | 7 57 | 22 21 | | n.a. | T 2 |
| F 3 | 4 7 | 2 55 | 0n53 | 11 17 | 1 35 | 7 28 | 1 33 | 24 29 | 0 53 | 22 24 | 1 6 | 14 51 | 1 43 | 18 33 | 0 41 | 4 28 | 1 54 | 0 24 | 12 56 | 7 31 | 7 58 | 22 18 | | n.a. | F 3 |
| S 4 | 4 30 | 3n 5 | 1 58 | 12 7 | 1 44 | 7 0 | 1 33 | 24 29 | 0 55 | 22 24 | 1 6 | 14 49 | 1 43 | 18 32 | 0 41 | 4 29 | 1 54 | 0 24 | 12 56 | 7 32 | 7 59 | 22 16 | | n.a. | S 4 |
| S 5 | 4 53 | 9 5 | 2 59 | 12 54 | 1 53 | 6 32 | 1 34 | 24 30 | 0 57 | 22 23 | 1 6 | 14 47 | 1 43 | 18 32 | 0 41 | 4 29 | 1 54 | 0 25 | 12 56 | 7 33 | 8 0 | 22 14 | | n.a. | S 5 |
| M 6 | 5 15 | 14 49 | 3 52 | 13 39 | 2 0 | 6 3 | 1 34 | 24 30 | 0 59 | 22 23 | 1 6 | 14 45 | 1 43 | 18 31 | 0 41 | 4 30 | 1 54 | 0 25 | 12 55 | 7 35 | 8 2 | 22 11 | | n.a. | M 6 |
| T 7 | 5 38 | 19 59 | 4 33 | 14 21 | 2 8 | 5 35 | 1 35 | 24 30 | 1 1 | 22 22 | 1 6 | 14 43 | 1 43 | 18 31 | 0 41 | 4 31 | 1 54 | 0 26 | 12 55 | 7 37 | 8 3 | 22 9 | | n.a. | T 7 |
| W 8 | 6 1 | 24 14 | 5 1 | 15 1 | 2 14 | 5 6 | 1 35 | 24 30 | 1 3 | 22 22 | 1 6 | 14 42 | 1 44 | 18 30 | 0 41 | 4 32 | 1 54 | 0 27 | 12 55 | 7 39 | 8 4 | 22 7 | | n.a. | W 8 |
| T 9 | 6 23 | 27 13 | 5 11 | 15 39 | 2 20 | 4 37 | 1 35 | 24 30 | 1 5 | 22 21 | 1 5 | 14 40 | 1 44 | 18 30 | 0 41 | 4 33 | 1 54 | 0 27 | 12 55 | 7 41 | 8 5 | 22 4 | | n.a. | T 9 |
| F 10 | 6 46 | 28 35 | 5 4 | 16 15 | 2 25 | 4 8 | 1 35 | 24 29 | 1 8 | 22 20 | 1 5 | 14 38 | 1 44 | 18 29 | 0 41 | 4 34 | 1 54 | 0 28 | 12 55 | 7 42 | 8 6 | 22 2 | | n.a. | F 10 |
| S 11 | 7 8 | 28 9 | 4 38 | 16 47 | 2 29 | 3 39 | 1 35 | 24 29 | 1 10 | 22 20 | 1 5 | 14 36 | 1 44 | 18 29 | 0 41 | 4 35 | 1 54 | 0 28 | 12 55 | 7 43 | 8 8 | 22 0 | | n.a. | S 11 |
| S 12 | 7 30 | 25 54 | 3 56 | 17 18 | 2 32 | 3 10 | 1 35 | 24 28 | 1 12 | 22 19 | 1 5 | 14 35 | 1 44 | 18 28 | 0 41 | 4 36 | 1 54 | 0 29 | 12 55 | 7 43 | 8 9 | 21 57 | | n.a. | S 12 |
| M13 | 7 53 | 22 2 | 2 59 | 17 45 | 2 35 | 2 40 | 1 35 | 24 28 | 1 14 | 22 18 | 1 5 | 14 33 | 1 45 | 18 28 | 0 41 | 4 36 | 1 54 | 0 29 | 12 55 | 7 43 | 8 10 | 21 55 | | n.a. | M13 |
| T 14 | 8 15 | 16 51 | 1 51 | 18 11 | 2 36 | 2 11 | 1 35 | 24 27 | 1 16 | 22 17 | 1 5 | 14 31 | 1 45 | 18 27 | 0 41 | 4 37 | 1 54 | 0 30 | 12 55 | 7 42 | 8 11 | 21 53 | | n.a. | T 14 |
| W15 | 8 36 | 10 44 | 0 36 | 18 34 | 2 37 | 1 41 | 1 35 | 24 26 | 1 19 | 22 17 | 1 5 | 14 30 | 1 45 | 18 27 | 0 41 | 4 38 | 1 54 | 0 30 | 12 55 | 7 42 | 8 13 | 21 50 | | n.a. | W15 |
| T 16 | 8 58 | 4 5 | 0s41 | 18 54 | 2 37 | 1 12 | 1 35 | 24 25 | 1 21 | 22 16 | 1 5 | 14 28 | 1 45 | 18 27 | 0 41 | 4 39 | 1 54 | 0 31 | 12 54 | 7 42 | 8 14 | 21 48 | | n.a. | T 16 |
| F 17 | 9 20 | 2s44 | 1 56 | 19 12 | 2 36 | 0 42 | 1 34 | 24 24 | 1 23 | 22 15 | 1 5 | 14 26 | 1 45 | 18 26 | 0 41 | 4 40 | 1 54 | 0 31 | 12 54 | 7 42 | 8 15 | 21 45 | | n.a. | F 17 |
| S 18 | 9 41 | 9 20 | 3 2 | 19 27 | 2 34 | 0 13 | 1 34 | 24 23 | 1 26 | 22 14 | 1 4 | 14 25 | 1 46 | 18 26 | 0 41 | 4 41 | 1 54 | 0 32 | 12 54 | 7 44 | 8 16 | 21 43 | | n.a. | S 18 |
| S 19 | 10 2 | 15 22 | 3 56 | 19 40 | 2 31 | 0n17 | 1 33 | 24 21 | 1 28 | 22 13 | 1 4 | 14 23 | 1 46 | 18 25 | 0 41 | 4 42 | 1 54 | 0 32 | 12 54 | 7 46 | 8 17 | 21 41 | | n.a. | S 19 |
| M20 | 10 23 | 20 32 | 4 36 | 19 51 | 2 27 | 0 47 | 1 33 | 24 20 | 1 31 | 22 12 | 1 4 | 14 22 | 1 46 | 18 25 | 0 41 | 4 42 | 1 54 | 0 33 | 12 54 | 7 49 | 8 19 | 21 38 | | n.a. | M20 |
| T 21 | 10 44 | 24 34 | 5 0 | 19 59 | 2 22 | 1 17 | 1 32 | 24 19 | 1 33 | 22 11 | 1 4 | 14 20 | 1 46 | 18 25 | 0 41 | 4 43 | 1 54 | 0 33 | 12 54 | 7 52 | 8 20 | 21 36 | | n.a. | T 21 |
| W22 | 11 5 | 27 15 | 5 8 | 20 5 | 2 16 | 1 46 | 1 32 | 24 17 | 1 36 | 22 10 | 1 4 | 14 19 | 1 46 | 18 24 | 0 41 | 4 44 | 1 54 | 0 34 | 12 54 | 7 55 | 8 21 | 21 33 | | n.a. | W22 |
| T 23 | 11 26 | 28 29 | 5 0 | 20 9 | 2 9 | 2 16 | 1 31 | 24 15 | 1 38 | 22 9 | 1 4 | 14 17 | 1 47 | 18 24 | 0 41 | 4 45 | 1 54 | 0 34 | 12 54 | 7 58 | 8 22 | 21 31 | | n.a. | T 23 |
| F 24 | 11 46 | 28 16 | 4 39 | 20 10 | 2 2 | 2 46 | 1 30 | 24 14 | 1 41 | 22 8 | 1 4 | 14 16 | 1 47 | 18 24 | 0 42 | 4 46 | 1 54 | 0 35 | 12 54 | 7 59 | 8 23 | 21 28 | | n.a. | F 24 |
| S 25 | 12 6 | 26 41 | 4 6 | 20 9 | 1 53 | 3 15 | 1 29 | 24 12 | 1 43 | 22 7 | 1 4 | 14 15 | 1 47 | 18 24 | 0 42 | 4 47 | 1 54 | 0 35 | 12 54 | 8 1 | 8 25 | 21 26 | | n.a. | S 25 |
| S 26 | 12 27 | 23 56 | 3 22 | 20 6 | 1 43 | 3 45 | 1 28 | 24 10 | 1 46 | 22 5 | 1 4 | 14 13 | 1 47 | 18 23 | 0 42 | 4 48 | 1 54 | 0 36 | 12 54 | 8 1 | 8 26 | 21 23 | | n.a. | S 26 |
| M27 | 12 46 | 20 10 | 2 30 | 20 0 | 1 32 | 4 14 | 1 27 | 24 8 | 1 49 | 22 4 | 1 3 | 14 12 | 1 47 | 18 23 | 0 42 | 4 48 | 1 54 | 0 36 | 12 54 | 8 1 | 8 27 | 21 21 | | n.a. | M27 |
| T 28 | 13 6 | 15 37 | 1 32 | 19 52 | 1 21 | 4 44 | 1 26 | 24 6 | 1 51 | 22 3 | 1 3 | 14 11 | 1 48 | 18 23 | 0 42 | 4 49 | 1 54 | 0 37 | 12 54 | 8 1 | 8 28 | 21 19 | | n.a. | T 28 |
| W29 | 13 26 | 10 27 | 0 29 | 19 43 | 1 8 | 5 13 | 1 25 | 24 4 | 1 54 | 22 2 | 1 3 | 14 9 | 1 48 | 18 22 | 0 42 | 4 50 | 1 54 | 0 37 | 12 54 | 8 0 | 8 29 | 21 16 | | n.a. | W29 |
| T 30 | 13n45 | 4s49 | 0n36 | 19n31 | 0n55 | 5n43 | 1s24 | 24s 2 | 1s57 | 22n 0 | 1n 3 | 14s 8 | 1s48 | 18s22 | 0s42 | 4n51 | 1s54 | 0n38 | 12s54 | 8s 0 | 8s31 | 21s14 | | n.a. | T 30 |

Julian Day Number = 1686084.5, Delta T = 03h12m56s
Ecliptic obliquity = 23°42'34, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°24'03, Lahiri = - 5°17'03 Julian Calendar 1 Apr. 97 BCE == Greg. Calendar 30 March 097 BCE

The year -96 astronomical counting style corresponds to year 097 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 97 BCE
# geocentric

## MAY 97 BCE (-96) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 14 24 42 | 7♉11'17 | 28♓54 | 22°R36 | 18♈51 | 21♊10 | 27♋11 | 27♒40 | 10♒53 | 16♈38 | 3♉20 | 9°R42 | 8♓21 | 7♒25 | n.a. | F 1 |
| S 2 | 14 28 38 | 8° 8'40 | 11♈35 | 22♉32 | 20° 4 | 21°41 | 27°18 | 27°44 | 10°54 | 16°40 | 3°22 | 9♓38 | 8°18 | 7°31 | n.a. | S 2 |
| S 3 | 14 32 35 | 9° 6'03 | 24°35 | 22°23 | 21°17 | 22°12 | 27°24 | 27°48 | 10°54 | 16°43 | 3°23 | 9°31 | 8°15 | 7°38 | n.a. | S 3 |
| M 4 | 14 36 31 | 10° 3'24 | 7♉55 | 22° 9 | 22°31 | 22°43 | 27°31 | 27°52 | 10°55 | 16°45 | 3°25 | 9°23 | 8°12 | 7°45 | n.a. | M 4 |
| T 5 | 14 40 28 | 11° 0'45 | 21°34 | 21°52 | 23°44 | 23°14 | 27°38 | 27°55 | 10°56 | 16°47 | 3°26 | 9°13 | 8° 9 | 7°51 | n.a. | T 5 |
| W 6 | 14 44 25 | 11°58'05 | 5♊28 | 21°32 | 24°57 | 23°44 | 27°44 | 27°59 | 10°57 | 16°49 | 3°27 | 9° 3 | 8° 5 | 7°58 | n.a. | W 6 |
| T 7 | 14 48 21 | 12°55'24 | 19°33 | 21° 8 | 26°10 | 24°14 | 27°51 | 28° 3 | 10°57 | 16°51 | 3°29 | 8°54 | 8° 2 | 8° 5 | n.a. | T 7 |
| F 8 | 14 52 18 | 13°52'42 | 3♋45 | 20°41 | 27°23 | 24°44 | 27°59 | 28° 6 | 10°58 | 16°53 | 3°30 | 8°47 | 7°59 | 8°11 | n.a. | F 8 |
| S 9 | 14 56 14 | 14°49'58 | 17°59 | 20°12 | 28°36 | 25°14 | 28° 6 | 28°10 | 10°58 | 16°55 | 3°31 | 8°42 | 7°56 | 8°18 | n.a. | S 9 |
| S 10 | 15 0 11 | 15°47'14 | 2♌13 | 19°40 | 29°49 | 25°43 | 28°13 | 28°13 | 10°59 | 16°57 | 3°33 | 8°39 | 7°53 | 8°25 | n.a. | S 10 |
| M11 | 15 4 7 | 16°44'29 | 16°23 | 19° 8 | 1♉ 2 | 26°12 | 28°21 | 28°16 | 10°59 | 16°59 | 3°34 | 8°D38 | 7°49 | 8°31 | n.a. | M11 |
| T 12 | 15 8 4 | 17°41'43 | 0♍28 | 18°34 | 2°16 | 26°40 | 28°28 | 28°20 | 10°59 | 17° 1 | 3°35 | 8°39 | 7°46 | 8°38 | n.a. | T 12 |
| W13 | 15 12 1 | 18°38'55 | 14°28 | 18° 0 | 3°29 | 27° 9 | 28°36 | 28°23 | 11° 0 | 17° 3 | 3°37 | 8°R39 | 7°43 | 8°45 | n.a. | W13 |
| T 14 | 15 15 57 | 19°36'07 | 28°22 | 17°27 | 4°42 | 27°37 | 28°44 | 28°26 | 11° 0 | 17° 5 | 3°38 | 8°37 | 7°40 | 8°51 | n.a. | T 14 |
| F 15 | 15 19 54 | 20°33'17 | 12♎ 8 | 16°54 | 5°55 | 28° 4 | 28°52 | 28°29 | 11° 0 | 17° 7 | 3°39 | 8°34 | 7°37 | 8°58 | n.a. | F 15 |
| S 16 | 15 23 50 | 21°30'27 | 25°45 | 16°23 | 7° 8 | 28°32 | 29° 0 | 28°31 | 11° 0 | 17° 9 | 3°41 | 8°27 | 7°34 | 9° 5 | n.a. | S 16 |
| S 17 | 15 27 47 | 22°27'37 | 9♏12 | 15°54 | 8°22 | 28°59 | 29° 9 | 28°34 | 11° 0 | 17°11 | 3°42 | 8°18 | 7°30 | 9°11 | n.a. | S 17 |
| M18 | 15 31 43 | 23°24'46 | 22°25 | 15°28 | 9°35 | 29°26 | 29°17 | 28°37 | 11° 1 | 17°13 | 3°43 | 8° 7 | 7°27 | 9°18 | n.a. | M18 |
| T 19 | 15 35 40 | 24°21'54 | 5♐24 | 15° 4 | 10°48 | 29°52 | 29°25 | 28°39 | 11°R 1 | 17°15 | 3°44 | 7°55 | 7°24 | 9°25 | n.a. | T 19 |
| W20 | 15 39 36 | 25°19'02 | 18° 8 | 14°43 | 12° 1 | 0♒18 | 29°34 | 28°42 | 11° 1 | 17°17 | 3°46 | 7°43 | 7°21 | 9°31 | n.a. | W20 |
| T 21 | 15 43 33 | 26°16'10 | 0♑35 | 14°27 | 13°15 | 0°44 | 29°43 | 28°44 | 11° 0 | 17°18 | 3°47 | 7°32 | 7°18 | 9°38 | n.a. | T 21 |
| F 22 | 15 47 30 | 27°13'17 | 12°49 | 14°14 | 14°28 | 1° 9 | 29°51 | 28°46 | 11° 0 | 17°20 | 3°48 | 7°23 | 7°15 | 9°45 | n.a. | F 22 |
| S 23 | 15 51 26 | 28°10'25 | 24°50 | 14° 5 | 15°41 | 1°34 | 0♌ 0 | 28°49 | 11° 0 | 17°22 | 3°50 | 7°17 | 7°11 | 9°51 | n.a. | S 23 |
| S 24 | 15 55 23 | 29° 7'32 | 6♒43 | 14°D 1 | 16°54 | 1°58 | 0° 9 | 28°51 | 11° 0 | 17°24 | 3°51 | 7°13 | 7° 8 | 9°58 | n.a. | S 24 |
| M25 | 15 59 19 | 0♊ 4'39 | 18°32 | 14° 1 | 18° 8 | 2°23 | 0°18 | 28°53 | 11° 0 | 17°26 | 3°52 | 7°11 | 7° 5 | 10° 5 | n.a. | M25 |
| T 26 | 16 3 16 | 1° 1'46 | 0♓22 | 14° 6 | 19°21 | 2°46 | 0°28 | 28°54 | 10°59 | 17°27 | 3°53 | 7°11 | 7° 2 | 10°11 | n.a. | T 26 |
| W27 | 16 7 12 | 1°58'53 | 12°19 | 14°16 | 20°34 | 3° 9 | 0°37 | 28°56 | 10°59 | 17°29 | 3°55 | 7°11 | 6°59 | 10°18 | n.a. | W27 |
| T 28 | 16 11 9 | 2°56'01 | 24°28 | 14°31 | 21°48 | 3°32 | 0°46 | 28°58 | 10°59 | 17°31 | 3°56 | 7°10 | 6°55 | 10°25 | n.a. | T 28 |
| F 29 | 16 15 5 | 3°53'08 | 6♈53 | 14°50 | 23° 1 | 3°54 | 0°56 | 29° 0 | 10°58 | 17°33 | 3°57 | 7° 8 | 6°52 | 10°31 | n.a. | F 29 |
| S 30 | 16 19 2 | 4°50'15 | 19°40 | 15°14 | 24°15 | 4°16 | 1° 6 | 29° 1 | 10°58 | 17°34 | 3°58 | 7° 3 | 6°49 | 10°38 | n.a. | S 30 |
| S 31 | 16 22 59 | 5♊47'23 | 2♉51 | 15♉43 | 25♉28 | 4♒37 | 1♌15 | 29♒ 2 | 10♒57 | 17♈36 | 3♉59 | 6♓56 | 6♓46 | 10♒45 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 14n 4 | 1n 6 | 1n41 | 19n17 | 0n41 | 6n12 | 1s23 | 23s59 | 2s 0 | 21n59 | 1n 3 | 14s 7 | 1s48 | 18s22 | 0s42 | 4n52 | 1s54 | 0n38 | 12s54 | 8s 1 | 8s32 | 21s11 | | n.a. |
| S 2 | 14 23 | 7 6 | 2 42 | 19 2 | 0 26 | 6 41 | 1 21 | 23 57 | 2 2 | 21 58 | 1 3 | 14 6 | 1 49 | 18 22 | 0 42 | 4 52 | 1 54 | 0 39 | 12 54 | 8 3 | 8 33 | 21 9 | | n.a. |
| S 3 | 14 41 | 12 58 | 3 36 | 18 44 | 0 10 | 7 10 | 1 20 | 23 55 | 2 5 | 21 56 | 1 3 | 14 4 | 1 49 | 18 22 | 0 42 | 4 53 | 1 54 | 0 39 | 12 54 | 8 5 | 8 34 | 21 6 | | n.a. |
| M 4 | 15 0 | 18 23 | 4 20 | 18 25 | 0s 6 | 7 38 | 1 19 | 23 52 | 2 8 | 21 55 | 1 3 | 14 3 | 1 49 | 18 22 | 0 42 | 4 54 | 1 54 | 0 39 | 12 54 | 8 8 | 8 35 | 21 4 | | n.a. |
| T 5 | 15 18 | 23 0 | 4 49 | 18 5 | 0 22 | 8 7 | 1 17 | 23 50 | 2 11 | 21 54 | 1 3 | 14 2 | 1 49 | 18 21 | 0 42 | 4 55 | 1 54 | 0 40 | 12 54 | 8 12 | 8 37 | 21 1 | | n.a. |
| W 6 | 15 36 | 26 25 | 5 3 | 17 43 | 0 39 | 8 36 | 1 16 | 23 48 | 2 14 | 21 52 | 1 3 | 14 1 | 1 49 | 18 21 | 0 42 | 4 56 | 1 54 | 0 40 | 12 54 | 8 16 | 8 38 | 20 59 | | n.a. |
| T 7 | 15 54 | 28 15 | 4 58 | 17 21 | 0 56 | 9 4 | 1 14 | 23 45 | 2 17 | 21 51 | 1 2 | 14 0 | 1 50 | 18 21 | 0 42 | 4 56 | 1 54 | 0 41 | 12 54 | 8 19 | 8 39 | 20 56 | | n.a. |
| F 8 | 16 11 | 28 15 | 4 35 | 16 57 | 1 13 | 9 32 | 1 12 | 23 43 | 2 20 | 21 49 | 1 2 | 13 59 | 1 50 | 18 21 | 0 42 | 4 57 | 1 54 | 0 41 | 12 54 | 8 22 | 8 40 | 20 54 | | n.a. |
| S 9 | 16 28 | 26 22 | 3 56 | 16 33 | 1 30 | 10 0 | 1 11 | 23 40 | 2 23 | 21 47 | 1 2 | 13 58 | 1 50 | 18 21 | 0 42 | 4 58 | 1 54 | 0 42 | 12 54 | 8 24 | 8 41 | 20 51 | | n.a. |
| S 10 | 16 45 | 22 50 | 3 1 | 16 8 | 1 47 | 10 27 | 1 9 | 23 38 | 2 26 | 21 46 | 1 2 | 13 57 | 1 50 | 18 21 | 0 42 | 4 59 | 1 54 | 0 42 | 12 54 | 8 25 | 8 43 | 20 49 | | n.a. |
| M11 | 17 2 | 17 56 | 1 56 | 15 43 | 2 3 | 10 55 | 1 7 | 23 35 | 2 29 | 21 44 | 1 2 | 13 56 | 1 51 | 18 21 | 0 42 | 4 59 | 1 54 | 0 42 | 12 54 | 8 25 | 8 44 | 20 46 | | n.a. |
| T 12 | 17 18 | 12 6 | 0 43 | 15 19 | 2 19 | 11 22 | 1 6 | 23 33 | 2 32 | 21 43 | 1 2 | 13 55 | 1 51 | 18 21 | 0 42 | 5 0 | 1 54 | 0 43 | 12 54 | 8 25 | 8 45 | 20 44 | | n.a. |
| W13 | 17 34 | 5 42 | 0s31 | 14 55 | 2 34 | 11 49 | 1 4 | 23 30 | 2 36 | 21 41 | 1 2 | 13 54 | 1 51 | 18 21 | 0 42 | 5 1 | 1 54 | 0 43 | 12 54 | 8 25 | 8 46 | 20 41 | | n.a. |
| T 14 | 17 50 | 0s55 | 1 43 | 14 32 | 2 49 | 12 16 | 1 2 | 23 28 | 2 39 | 21 39 | 1 2 | 13 53 | 1 51 | 18 21 | 0 42 | 5 2 | 1 54 | 0 44 | 12 54 | 8 26 | 8 47 | 20 39 | | n.a. |
| F 15 | 18 5 | 7 25 | 2 48 | 14 10 | 3 2 | 12 42 | 1 0 | 23 25 | 2 42 | 21 37 | 1 2 | 13 53 | 1 52 | 18 21 | 0 42 | 5 2 | 1 54 | 0 44 | 12 54 | 8 27 | 8 49 | 20 36 | | n.a. |
| S 16 | 18 21 | 13 30 | 3 42 | 13 49 | 3 15 | 13 8 | 0 58 | 23 23 | 2 45 | 21 36 | 1 2 | 13 52 | 1 52 | 18 21 | 0 42 | 5 3 | 1 54 | 0 44 | 12 54 | 8 29 | 8 50 | 20 33 | | n.a. |
| S 17 | 18 36 | 18 53 | 4 24 | 13 30 | 3 26 | 13 34 | 0 56 | 23 21 | 2 49 | 21 34 | 1 2 | 13 51 | 1 52 | 18 21 | 0 42 | 5 4 | 1 54 | 0 45 | 12 54 | 8 33 | 8 51 | 20 31 | | n.a. |
| M18 | 18 50 | 23 15 | 4 50 | 13 13 | 3 36 | 13 59 | 0 54 | 23 18 | 2 52 | 21 32 | 1 1 | 13 51 | 1 52 | 18 21 | 0 42 | 5 4 | 1 54 | 0 45 | 12 54 | 8 37 | 8 52 | 20 28 | | n.a. |
| T 19 | 19 4 | 26 22 | 5 1 | 12 58 | 3 44 | 14 25 | 0 52 | 23 16 | 2 55 | 21 30 | 1 1 | 13 50 | 1 53 | 18 21 | 0 42 | 5 5 | 1 54 | 0 46 | 12 54 | 8 42 | 8 53 | 20 26 | | n.a. |
| W20 | 19 18 | 28 5 | 4 56 | 12 45 | 3 52 | 14 49 | 0 50 | 23 13 | 2 59 | 21 28 | 1 1 | 13 49 | 1 53 | 18 21 | 0 43 | 5 6 | 1 55 | 0 46 | 12 54 | 8 46 | 8 55 | 20 23 | | n.a. |
| T 21 | 19 32 | 28 20 | 4 37 | 12 34 | 3 58 | 15 14 | 0 48 | 23 11 | 3 2 | 21 26 | 1 1 | 13 49 | 1 53 | 18 21 | 0 43 | 5 7 | 1 55 | 0 46 | 12 54 | 8 50 | 8 56 | 20 21 | | n.a. |
| F 22 | 19 46 | 27 10 | 4 6 | 12 26 | 4 3 | 15 38 | 0 46 | 23 9 | 3 6 | 21 24 | 1 1 | 13 48 | 1 53 | 18 21 | 0 43 | 5 7 | 1 55 | 0 47 | 12 54 | 8 54 | 8 57 | 20 18 | | n.a. |
| S 23 | 19 59 | 24 45 | 3 24 | 12 20 | 4 6 | 16 2 | 0 44 | 23 7 | 3 9 | 21 22 | 1 1 | 13 48 | 1 54 | 18 21 | 0 43 | 5 8 | 1 55 | 0 47 | 12 54 | 8 56 | 8 58 | 20 15 | | n.a. |
| S 24 | 20 11 | 21 17 | 2 34 | 12 17 | 4 8 | 16 25 | 0 41 | 23 4 | 3 13 | 21 20 | 1 1 | 13 47 | 1 54 | 18 21 | 0 43 | 5 9 | 1 55 | 0 47 | 12 55 | 8 57 | 8 59 | 20 13 | | n.a. |
| M25 | 20 24 | 16 59 | 1 37 | 12 16 | 4 9 | 16 48 | 0 39 | 23 2 | 3 17 | 21 18 | 1 1 | 13 47 | 1 54 | 18 21 | 0 43 | 5 9 | 1 55 | 0 48 | 12 55 | 8 58 | 9 0 | 20 10 | | n.a. |
| T 26 | 20 36 | 12 2 | 0 36 | 12 18 | 4 9 | 17 10 | 0 37 | 23 0 | 3 20 | 21 16 | 1 1 | 13 46 | 1 54 | 18 21 | 0 43 | 5 10 | 1 55 | 0 48 | 12 55 | 8 58 | 9 2 | 20 8 | | n.a. |
| W27 | 20 47 | 6 36 | 0n27 | 12 22 | 4 7 | 17 32 | 0 35 | 22 58 | 3 24 | 21 14 | 1 1 | 13 46 | 1 55 | 18 21 | 0 43 | 5 10 | 1 55 | 0 48 | 12 55 | 8 58 | 9 3 | 20 5 | | n.a. |
| T 28 | 20 59 | 0 51 | 1 30 | 12 29 | 4 5 | 17 54 | 0 32 | 22 57 | 3 28 | 21 12 | 1 1 | 13 45 | 1 55 | 18 21 | 0 43 | 5 11 | 1 55 | 0 49 | 12 55 | 8 58 | 9 4 | 20 2 | | n.a. |
| F 29 | 21 10 | 5n 4 | 2 30 | 12 38 | 4 1 | 18 15 | 0 30 | 22 55 | 3 31 | 21 10 | 1 1 | 13 45 | 1 55 | 18 22 | 0 43 | 5 12 | 1 55 | 0 49 | 12 55 | 8 59 | 9 5 | 20 0 | | n.a. |
| S 30 | 21 21 | 10 55 | 3 25 | 12 49 | 3 56 | 18 36 | 0 28 | 22 53 | 3 35 | 21 7 | 1 1 | 13 45 | 1 56 | 18 22 | 0 43 | 5 12 | 1 55 | 0 49 | 12 55 | 9 1 | 9 6 | 19 57 | | n.a. |
| S 31 | 21n31 | 16n30 | 4n10 | 13n 3 | 3s51 | 18n56 | 0s25 | 22s52 | 3s39 | 21n 5 | 1n 0 | 13s45 | 1s56 | 18s22 | 0s43 | 5n13 | 1s55 | 0n49 | 12s55 | 9s 4 | 9s 8 | 19s55 | | n.a. |

Julian Day Number = 1686114.5, Delta T = 03h12m55s
Ecliptic obliquity = 23°42'33, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°23'59, Lahiri = - 5°16'59 Julian Calendar 1 May 97 BCE == Greg. Calendar 29 Apr. 097 BCE

The year -96 astronomical counting style corresponds to year 097 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 97 BCE
# geocentric

## JUNE 97 BCE (-96) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 16 26 55 | 6♊44'31 | 16♉26 | 16♉17 | 26♉42 | 4♒58 | 1♌25 | 29♒ 4 | 10°R56 | 17♈38 | 4♉ 1 | 6°R46 | 6♓43 | 10♒51 | n.a. | M 1 |
| T 2 | 16 30 52 | 7°41'39 | 0♊24 | 16°55 | 27°55 | 5°19 | 1°35 | 29° 5 | 10♒56 | 17°39 | 4° 2 | 6♓35 | 6°40 | 10°58 | n.a. | T 2 |
| W 3 | 16 34 48 | 8°38'47 | 14°42 | 17°38 | 29° 9 | 5°38 | 1°45 | 29° 6 | 10°55 | 17°41 | 4° 3 | 6°23 | 6°36 | 11° 5 | n.a. | W 3 |
| T 4 | 16 38 45 | 9°35'55 | 29°13 | 18°26 | 0♊22 | 5°58 | 1°55 | 29° 7 | 10°54 | 17°42 | 4° 4 | 6°12 | 6°33 | 11°11 | n.a. | T 4 |
| F 5 | 16 42 41 | 10°33'03 | 13♋50 | 19°18 | 1°36 | 6°16 | 2° 5 | 29° 8 | 10°54 | 17°44 | 4° 5 | 6° 4 | 6°30 | 11°18 | n.a. | F 5 |
| S 6 | 16 46 38 | 11°30'11 | 28°26 | 20°15 | 2°49 | 6°34 | 2°15 | 29° 9 | 10°53 | 17°45 | 4° 6 | 5°57 | 6°27 | 11°24 | n.a. | S 6 |
| S 7 | 16 50 35 | 12°27'19 | 12♌55 | 21°16 | 4° 3 | 6°52 | 2°26 | 29° 9 | 10°52 | 17°47 | 4° 7 | 5°54 | 6°24 | 11°31 | n.a. | S 7 |
| M 8 | 16 54 31 | 13°24'26 | 27°14 | 22°21 | 5°16 | 7° 9 | 2°36 | 29°10 | 10°51 | 17°48 | 4° 8 | 5°53 | 6°21 | 11°38 | n.a. | M 8 |
| T 9 | 16 58 28 | 14°21'34 | 11♍21 | 23°31 | 6°30 | 7°25 | 2°47 | 29°10 | 10°50 | 17°50 | 4°10 | 5°53 | 6°17 | 11°44 | n.a. | T 9 |
| W10 | 17 2 24 | 15°18'41 | 25°14 | 24°45 | 7°43 | 7°41 | 2°57 | 29°11 | 10°49 | 17°51 | 4°11 | 5°52 | 6°14 | 11°51 | n.a. | W10 |
| T 11 | 17 6 21 | 16°15'49 | 8♎55 | 26° 3 | 8°57 | 7°56 | 3° 8 | 29°11 | 10°48 | 17°52 | 4°12 | 5°51 | 6°11 | 11°58 | n.a. | T 11 |
| F 12 | 17 10 17 | 17°12'56 | 22°23 | 27°25 | 10°11 | 8°11 | 3°19 | 29°11 | 10°47 | 17°54 | 4°13 | 5°47 | 6° 8 | 12° 4 | n.a. | F 12 |
| S 13 | 17 14 14 | 18°10'04 | 5♏39 | 28°51 | 11°24 | 8°24 | 3°29 | 29°R11 | 10°46 | 17°55 | 4°14 | 5°41 | 6° 5 | 12°11 | n.a. | S 13 |
| S 14 | 17 18 10 | 19° 7'12 | 18°43 | 0♊21 | 12°38 | 8°38 | 3°40 | 29°11 | 10°44 | 17°56 | 4°15 | 5°32 | 6° 1 | 12°18 | n.a. | S 14 |
| M15 | 17 22 7 | 20° 4'20 | 1♐36 | 1°55 | 13°52 | 8°50 | 3°51 | 29°11 | 10°43 | 17°58 | 4°16 | 5°21 | 5°58 | 12°24 | n.a. | M15 |
| T 16 | 17 26 4 | 21° 1'29 | 14°16 | 3°33 | 15° 5 | 9° 2 | 4° 2 | 29°11 | 10°42 | 17°59 | 4°17 | 5° 8 | 5°55 | 12°31 | n.a. | T 16 |
| W17 | 17 30 0 | 21°58'38 | 26°45 | 5°14 | 16°19 | 9°14 | 4°13 | 29°10 | 10°41 | 18° 0 | 4°18 | 4°56 | 5°52 | 12°38 | n.a. | W17 |
| T 18 | 17 33 57 | 22°55'48 | 9♑ 1 | 6°59 | 17°33 | 9°24 | 4°25 | 29°10 | 10°39 | 18° 1 | 4°19 | 4°45 | 5°49 | 12°44 | n.a. | T 18 |
| F 19 | 17 37 53 | 23°52'58 | 21° 6 | 8°47 | 18°46 | 9°34 | 4°36 | 29° 9 | 10°38 | 18° 3 | 4°20 | 4°36 | 5°46 | 12°51 | n.a. | F 19 |
| S 20 | 17 41 50 | 24°50'09 | 3♒ 3 | 10°39 | 20° 0 | 9°43 | 4°47 | 29° 9 | 10°37 | 18° 4 | 4°21 | 4°29 | 5°42 | 12°58 | n.a. | S 20 |
| S 21 | 17 45 46 | 25°47'21 | 14°53 | 12°33 | 21°14 | 9°51 | 4°58 | 29° 8 | 10°35 | 18° 5 | 4°22 | 4°25 | 5°39 | 13° 4 | n.a. | S 21 |
| M22 | 17 49 43 | 26°44'34 | 26°40 | 14°29 | 22°28 | 9°59 | 5°10 | 29° 7 | 10°34 | 18° 6 | 4°22 | 4°23 | 5°36 | 13°11 | n.a. | M22 |
| T 23 | 17 53 40 | 27°41'47 | 8♓30 | 16°28 | 23°42 | 10° 6 | 5°21 | 29° 6 | 10°32 | 18° 7 | 4°23 | 4°D23 | 5°33 | 13°18 | n.a. | T 23 |
| W24 | 17 57 36 | 28°39'01 | 20°25 | 18°29 | 24°55 | 10°12 | 5°33 | 29° 5 | 10°31 | 18° 8 | 4°24 | 4°24 | 5°30 | 13°24 | n.a. | W24 |
| T 25 | 18 1 33 | 29°36'17 | 2♈33 | 20°32 | 26° 9 | 10°17 | 5°45 | 29° 4 | 10°29 | 18° 9 | 4°25 | 4°R24 | 5°27 | 13°31 | n.a. | T 25 |
| F 26 | 18 5 29 | 0♋33'33 | 14°58 | 22°36 | 27°23 | 10°22 | 5°56 | 29° 3 | 10°27 | 18°10 | 4°26 | 4°23 | 5°23 | 13°38 | n.a. | F 26 |
| S 27 | 18 9 26 | 1°30'51 | 27°45 | 24°41 | 28°37 | 10°26 | 6° 8 | 29° 2 | 10°26 | 18°11 | 4°27 | 4°20 | 5°20 | 13°44 | n.a. | S 27 |
| S 28 | 18 13 22 | 2°28'09 | 10♉58 | 26°47 | 29°51 | 10°28 | 6°20 | 29° 0 | 10°24 | 18°12 | 4°28 | 4°15 | 5°17 | 13°51 | n.a. | S 28 |
| M29 | 18 17 19 | 3°25'29 | 24°38 | 28°53 | 1♋ 5 | 10°31 | 6°32 | 28°59 | 10°22 | 18°13 | 4°28 | 4° 7 | 5°14 | 13°58 | n.a. | M29 |
| T 30 | 18 21 15 | 4♋22'50 | 8♊46 | 0♋59 | 2♋19 | 10♒32 | 6♌43 | 28♒57 | 10♒20 | 18♈13 | 4♉29 | 3♓59 | 5♓11 | 14♒ 4 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 21n41 | 21n26 | 4n42 | 13n19 | 3s44 | 19n16 | 0s23 | 22s50 | 3s43 | 21n 3 | 1n 0 | 13s44 | 1s56 | 18s22 | 0s43 | 5n13 | 1s55 | 0n50 | 12s55 | 9s 8 | 9s 9 | 19s52 | | n.a. |
| T 2 | 21 50 | 25 20 | 4 59 | 13 37 | 3 37 | 19 35 | 0 21 | 22 49 | 3 47 | 21 1 | 1 0 | 13 44 | 1 56 | 18 22 | 0 43 | 5 14 | 1 55 | 0 50 | 12 55 | 9 12 | 9 10 | 19 49 | | n.a. |
| W 3 | 22 0 | 27 44 | 4 57 | 13 57 | 3 29 | 19 54 | 0 18 | 22 48 | 3 51 | 20 58 | 1 0 | 13 44 | 1 57 | 18 23 | 0 43 | 5 15 | 1 55 | 0 50 | 12 56 | 9 16 | 9 11 | 19 47 | | n.a. |
| T 4 | 22 8 | 28 19 | 4 37 | 14 18 | 3 20 | 20 12 | 0 16 | 22 47 | 3 55 | 20 56 | 1 0 | 13 44 | 1 57 | 18 23 | 0 43 | 5 15 | 1 55 | 0 51 | 12 56 | 9 20 | 9 12 | 19 44 | | n.a. |
| F 5 | 22 17 | 26 56 | 3 58 | 14 41 | 3 11 | 20 30 | 0 14 | 22 46 | 3 58 | 20 54 | 1 0 | 13 44 | 1 57 | 18 23 | 0 43 | 5 16 | 1 55 | 0 51 | 12 56 | 9 23 | 9 14 | 19 41 | | n.a. |
| S 6 | 22 25 | 23 43 | 3 4 | 15 6 | 3 1 | 20 47 | 0 11 | 22 45 | 4 2 | 20 51 | 1 0 | 13 44 | 1 57 | 18 23 | 0 43 | 5 16 | 1 55 | 0 51 | 12 56 | 9 26 | 9 15 | 19 39 | | n.a. |
| S 7 | 22 33 | 19 1 | 1 58 | 15 32 | 2 50 | 21 3 | 0 9 | 22 44 | 4 7 | 20 49 | 1 0 | 13 44 | 1 58 | 18 24 | 0 43 | 5 17 | 1 55 | 0 51 | 12 56 | 9 27 | 9 16 | 19 36 | | n.a. |
| M 8 | 22 40 | 13 17 | 0 46 | 16 0 | 2 39 | 21 19 | 0 6 | 22 44 | 4 11 | 20 46 | 1 0 | 13 44 | 1 58 | 18 24 | 0 43 | 5 17 | 1 55 | 0 51 | 12 56 | 9 27 | 9 17 | 19 34 | | n.a. |
| T 9 | 22 47 | 6 57 | 0s29 | 16 28 | 2 28 | 21 34 | 0 4 | 22 43 | 4 15 | 20 44 | 1 0 | 13 44 | 1 58 | 18 24 | 0 43 | 5 18 | 1 55 | 0 52 | 12 56 | 9 27 | 9 18 | 19 31 | | n.a. |
| W10 | 22 53 | 0 23 | 1 41 | 16 58 | 2 16 | 21 49 | 0 2 | 22 43 | 4 19 | 20 41 | 1 0 | 13 44 | 1 58 | 18 25 | 0 43 | 5 18 | 1 56 | 0 52 | 12 56 | 9 28 | 9 19 | 19 28 | | n.a. |
| T 11 | 22 59 | 6s 6 | 2 45 | 17 28 | 2 4 | 22 3 | 0n 1 | 22 43 | 4 23 | 20 39 | 1 0 | 13 44 | 1 59 | 18 25 | 0 43 | 5 19 | 1 56 | 0 52 | 12 57 | 9 28 | 9 21 | 19 26 | | n.a. |
| F 12 | 23 5 | 12 12 | 3 40 | 17 59 | 1 52 | 22 17 | 0 3 | 22 43 | 4 27 | 20 36 | 1 0 | 13 44 | 1 59 | 18 25 | 0 43 | 5 19 | 1 56 | 0 52 | 12 57 | 9 30 | 9 22 | 19 23 | | n.a. |
| S 13 | 23 11 | 17 39 | 4 21 | 18 31 | 1 39 | 22 30 | 0 6 | 22 43 | 4 31 | 20 34 | 1 0 | 13 45 | 1 59 | 18 26 | 0 43 | 5 20 | 1 56 | 0 53 | 12 57 | 9 32 | 9 23 | 19 20 | | n.a. |
| S 14 | 23 15 | 22 12 | 4 48 | 19 3 | 1 27 | 22 42 | 0 8 | 22 44 | 4 35 | 20 31 | 1 0 | 13 45 | 1 59 | 18 26 | 0 43 | 5 20 | 1 56 | 0 53 | 12 57 | 9 35 | 9 24 | 19 17 | | n.a. |
| M15 | 23 20 | 25 37 | 5 0 | 19 34 | 1 14 | 22 54 | 0 10 | 22 44 | 4 39 | 20 28 | 1 0 | 13 45 | 2 0 | 18 26 | 0 43 | 5 21 | 1 56 | 0 53 | 12 57 | 9 39 | 9 25 | 19 15 | | n.a. |
| T 16 | 23 24 | 27 41 | 4 57 | 20 6 | 1 1 | 23 5 | 0 13 | 22 45 | 4 44 | 20 26 | 1 0 | 13 46 | 2 0 | 18 27 | 0 43 | 5 21 | 1 56 | 0 53 | 12 57 | 9 44 | 9 27 | 19 12 | | n.a. |
| W17 | 23 28 | 28 20 | 4 40 | 20 38 | 0 48 | 23 15 | 0 15 | 22 46 | 4 48 | 20 23 | 1 0 | 13 46 | 2 0 | 18 27 | 0 44 | 5 21 | 1 56 | 0 53 | 12 58 | 9 48 | 9 28 | 19 9 | | n.a. |
| T 18 | 23 31 | 27 33 | 4 10 | 21 8 | 0 36 | 23 24 | 0 17 | 22 47 | 4 52 | 20 20 | 1 0 | 13 46 | 2 1 | 18 27 | 0 44 | 5 22 | 1 56 | 0 53 | 12 58 | 9 53 | 9 29 | 19 7 | | n.a. |
| F 19 | 23 34 | 25 28 | 3 29 | 21 38 | 0 23 | 23 33 | 0 20 | 22 48 | 4 56 | 20 17 | 0 59 | 13 47 | 2 1 | 18 28 | 0 44 | 5 22 | 1 56 | 0 54 | 12 58 | 9 56 | 9 30 | 19 4 | | n.a. |
| S 20 | 23 36 | 22 16 | 2 39 | 22 7 | 0 11 | 23 42 | 0 22 | 22 50 | 5 0 | 20 15 | 0 59 | 13 47 | 2 1 | 18 28 | 0 44 | 5 23 | 1 56 | 0 54 | 12 58 | 9 58 | 9 31 | 19 1 | | n.a. |
| S 21 | 23 38 | 18 10 | 1 42 | 22 34 | 0n 1 | 23 49 | 0 24 | 22 52 | 5 5 | 20 12 | 0 59 | 13 48 | 2 1 | 18 29 | 0 44 | 5 23 | 1 56 | 0 54 | 12 58 | 10 0 | 9 32 | 18 59 | | n.a. |
| M22 | 23 40 | 13 24 | 0 41 | 23 0 | 0 13 | 23 56 | 0 27 | 22 53 | 5 9 | 20 9 | 0 59 | 13 48 | 2 2 | 18 29 | 0 44 | 5 23 | 1 56 | 0 54 | 12 58 | 10 1 | 9 34 | 18 56 | | n.a. |
| T 23 | 23 41 | 8 8 | 0n22 | 23 24 | 0 24 | 24 2 | 0 29 | 22 56 | 5 13 | 20 6 | 0 59 | 13 49 | 2 2 | 18 30 | 0 44 | 5 24 | 1 56 | 0 54 | 12 59 | 10 1 | 9 35 | 18 53 | | n.a. |
| W24 | 23 42 | 2 33 | 1 25 | 23 46 | 0 34 | 24 8 | 0 31 | 22 58 | 5 17 | 20 3 | 0 59 | 13 49 | 2 2 | 18 30 | 0 44 | 5 24 | 1 56 | 0 54 | 12 59 | 10 0 | 9 36 | 18 50 | | n.a. |
| T 25 | 23 43 | 3n14 | 2 24 | 24 6 | 0 44 | 24 12 | 0 33 | 23 0 | 5 21 | 20 0 | 0 59 | 13 50 | 2 2 | 18 31 | 0 44 | 5 24 | 1 56 | 0 54 | 12 59 | 10 0 | 9 37 | 18 48 | | n.a. |
| F 26 | 23 42 | 9 1 | 3 19 | 24 23 | 0 53 | 24 16 | 0 35 | 23 3 | 5 25 | 19 57 | 0 59 | 13 51 | 2 3 | 18 31 | 0 44 | 5 25 | 1 56 | 0 54 | 12 59 | 10 1 | 9 38 | 18 45 | | n.a. |
| S 27 | 23 42 | 14 36 | 4 5 | 24 38 | 1 2 | 24 20 | 0 38 | 23 6 | 5 30 | 19 54 | 0 59 | 13 51 | 2 3 | 18 32 | 0 44 | 5 25 | 1 57 | 0 54 | 12 59 | 10 2 | 9 40 | 18 42 | | n.a. |
| S 28 | 23 41 | 19 43 | 4 40 | 24 50 | 1 10 | 24 22 | 0 40 | 23 9 | 5 34 | 19 51 | 0 59 | 13 52 | 2 3 | 18 32 | 0 44 | 5 25 | 1 57 | 0 54 | 13 0 | 10 4 | 9 41 | 18 40 | | n.a. |
| M29 | 23 40 | 24 0 | 5 1 | 24 59 | 1 17 | 24 24 | 0 42 | 23 12 | 5 38 | 19 48 | 0 59 | 13 53 | 2 3 | 18 33 | 0 44 | 5 25 | 1 57 | 0 55 | 13 0 | 10 6 | 9 42 | 18 37 | | n.a. |
| T 30 | 23n38 | 27n 0 | 5n 4 | 25n 6 | 1n23 | 24n25 | 0n44 | 23s16 | 5s42 | 19n45 | 0n59 | 13s54 | 2s 4 | 18s33 | 0s44 | 5n26 | 1s57 | 0n55 | 13s 0 | 10s10 | 9s43 | 18s34 | | n.a. |

Julian Day Number = 1686145.5, Delta T = 03h12m54s
Ecliptic obliquity = 23°42'32, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°23'55, Lahiri = - 5°16'55 Julian Calendar 1 June 97 BCE == Greg. Calendar 30 May 097 BCE

The year -96 astronomical counting style corresponds to year 097 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 97 BCE
# geocentric

## JULY 97 BCE (-96) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 18 25 12 | 5♋20'12 | 23♊17 | 3♋ 5 | 3♋33 | 10°R32 | 6♌55 | 28°R55 | 10°R19 | 18♈14 | 4♉30 | 3°R50 | 5♓ 7 | 14♒11 | n.a. | W 1 |
| T 2 | 18 29 9 | 6°17'36 | 8♋ 6 | 5°11 | 4°47 | 10♒32 | 7° 7 | 28♒53 | 10♒17 | 18°15 | 4°31 | 3♓41 | 5° 4 | 14°18 | n.a. | T 2 |
| F 3 | 18 33 5 | 7°15'00 | 23° 4 | 7°16 | 6° 1 | 10°31 | 7°19 | 28°52 | 10°15 | 18°16 | 4°31 | 3°34 | 5° 1 | 14°24 | n.a. | F 3 |
| S 4 | 18 37 2 | 8°12'25 | 8♌ 2 | 9°21 | 7°15 | 10°29 | 7°32 | 28°50 | 10°13 | 18°16 | 4°32 | 3°30 | 4°58 | 14°31 | n.a. | S 4 |
| S 5 | 18 40 58 | 9° 9'51 | 22°51 | 11°24 | 8°29 | 10°26 | 7°44 | 28°47 | 10°11 | 18°17 | 4°33 | 3°27 | 4°55 | 14°38 | n.a. | S 5 |
| M 6 | 18 44 55 | 10° 7'17 | 7♍27 | 13°26 | 9°43 | 10°22 | 7°56 | 28°45 | 10° 9 | 18°18 | 4°33 | 3°D27 | 4°52 | 14°44 | n.a. | M 6 |
| T 7 | 18 48 51 | 11° 4'45 | 21°44 | 15°27 | 10°57 | 10°18 | 8° 8 | 28°43 | 10° 7 | 18°18 | 4°34 | 3°28 | 4°48 | 14°51 | n.a. | T 7 |
| W 8 | 18 52 48 | 12° 2'13 | 5♎42 | 17°27 | 12°11 | 10°13 | 8°20 | 28°41 | 10° 5 | 18°19 | 4°35 | 3°R29 | 4°45 | 14°58 | n.a. | W 8 |
| T 9 | 18 56 44 | 12°59'43 | 19°20 | 19°26 | 13°25 | 10° 7 | 8°33 | 28°38 | 10° 3 | 18°19 | 4°35 | 3°28 | 4°42 | 15° 4 | n.a. | T 9 |
| F 10 | 19 0 41 | 13°57'13 | 2♏39 | 21°23 | 14°40 | 10° 0 | 8°45 | 28°36 | 10° 1 | 18°20 | 4°36 | 3°27 | 4°39 | 15°11 | n.a. | F 10 |
| S 11 | 19 4 38 | 14°54'44 | 15°42 | 23°18 | 15°54 | 9°53 | 8°57 | 28°33 | 9°59 | 18°20 | 4°36 | 3°23 | 4°36 | 15°17 | n.a. | S 11 |
| S 12 | 19 8 34 | 15°52'16 | 28°31 | 25°13 | 17° 8 | 9°45 | 9°10 | 28°30 | 9°57 | 18°21 | 4°37 | 3°17 | 4°33 | 15°24 | n.a. | S 12 |
| M13 | 19 12 31 | 16°49'49 | 11♐ 6 | 27° 5 | 18°22 | 9°36 | 9°22 | 28°27 | 9°55 | 18°21 | 4°38 | 3°10 | 4°29 | 15°31 | n.a. | M13 |
| T 14 | 19 16 27 | 17°47'24 | 23°30 | 28°56 | 19°36 | 9°27 | 9°35 | 28°24 | 9°52 | 18°22 | 4°38 | 3° 2 | 4°26 | 15°37 | n.a. | T 14 |
| W15 | 19 20 24 | 18°45'00 | 5♑43 | 0♌46 | 20°50 | 9°16 | 9°47 | 28°22 | 9°50 | 18°22 | 4°39 | 2°54 | 4°23 | 15°44 | n.a. | W15 |
| T 16 | 19 24 20 | 19°42'37 | 17°48 | 2°34 | 22° 5 | 9° 6 | 10° 0 | 28°18 | 9°48 | 18°22 | 4°39 | 2°47 | 4°20 | 15°51 | n.a. | T 16 |
| F 17 | 19 28 17 | 20°40'15 | 29°45 | 4°21 | 23°19 | 8°54 | 10°13 | 28°15 | 9°46 | 18°23 | 4°39 | 2°41 | 4°17 | 15°57 | n.a. | F 17 |
| S 18 | 19 32 13 | 21°37'55 | 11♒36 | 6° 7 | 24°33 | 8°42 | 10°25 | 28°12 | 9°44 | 18°23 | 4°40 | 2°37 | 4°13 | 16° 4 | n.a. | S 18 |
| S 19 | 19 36 10 | 22°35'36 | 23°24 | 7°51 | 25°47 | 8°30 | 10°38 | 28° 9 | 9°41 | 18°23 | 4°40 | 2°34 | 4°10 | 16°11 | n.a. | S 19 |
| M20 | 19 40 7 | 23°33'19 | 5♓11 | 9°33 | 27° 2 | 8°17 | 10°51 | 28° 5 | 9°39 | 18°23 | 4°41 | 2°D34 | 4° 7 | 16°17 | n.a. | M20 |
| T 21 | 19 44 3 | 24°31'04 | 17° 1 | 11°14 | 28°16 | 8° 3 | 11° 3 | 28° 2 | 9°37 | 18°24 | 4°41 | 2°35 | 4° 4 | 16°24 | n.a. | T 21 |
| W22 | 19 48 0 | 25°28'50 | 28°57 | 12°54 | 29°30 | 7°49 | 11°16 | 27°59 | 9°35 | 18°24 | 4°41 | 2°36 | 4° 1 | 16°31 | n.a. | W22 |
| T 23 | 19 51 56 | 26°26'38 | 11♈ 5 | 14°32 | 0♌45 | 7°34 | 11°29 | 27°55 | 9°32 | 18°24 | 4°42 | 2°38 | 3°58 | 16°37 | n.a. | T 23 |
| F 24 | 19 55 53 | 27°24'28 | 23°28 | 16° 9 | 1°59 | 7°20 | 11°42 | 27°51 | 9°30 | 18°24 | 4°42 | 2°R39 | 3°54 | 16°44 | n.a. | F 24 |
| S 25 | 19 59 49 | 28°22'20 | 6♉12 | 17°44 | 3°13 | 7° 4 | 11°55 | 27°48 | 9°28 | 18°R24 | 4°42 | 2°39 | 3°51 | 16°51 | n.a. | S 25 |
| S 26 | 20 3 46 | 29°20'14 | 19°21 | 19°19 | 4°28 | 6°49 | 12° 7 | 27°44 | 9°25 | 18°24 | 4°43 | 2°37 | 3°48 | 16°57 | n.a. | S 26 |
| M27 | 20 7 42 | 0♌18'09 | 2♊57 | 20°51 | 5°42 | 6°33 | 12°20 | 27°40 | 9°23 | 18°24 | 4°43 | 2°34 | 3°45 | 17° 4 | n.a. | M27 |
| T 28 | 20 11 39 | 1°16'07 | 17° 2 | 22°23 | 6°57 | 6°17 | 12°33 | 27°36 | 9°21 | 18°24 | 4°43 | 2°30 | 3°42 | 17°11 | n.a. | T 28 |
| W29 | 20 15 36 | 2°14'07 | 1♋33 | 23°53 | 8°11 | 6° 1 | 12°46 | 27°32 | 9°18 | 18°24 | 4°43 | 2°26 | 3°39 | 17°17 | n.a. | W29 |
| T 30 | 20 19 32 | 3°12'08 | 16°26 | 25°21 | 9°26 | 5°44 | 12°59 | 27°28 | 9°16 | 18°23 | 4°44 | 2°22 | 3°35 | 17°24 | n.a. | T 30 |
| F 31 | 20 23 29 | 4♌10'12 | 1♌33 | 26♌49 | 10♌40 | 5♒28 | 13♌12 | 27♒24 | 9♒13 | 18♈23 | 4♉44 | 2♓18 | 3♓32 | 17♒31 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| W 1 | 23n36 | 28n19 | 4n48 | 25n 9 | 1n29 | 24n25 | 0n46 | 23s19 | 5s46 | 19n42 | 0n59 | 13s55 | 2s 4 | 18s34 | 0s44 | 5n26 | 1s57 | 0n55 | 13s 0 | 10s13 | 9s44 | 18s31 | | | n.a. |
| T 2 | 23 33 | 27 39 | 4 12 | 25 10 | 1 34 | 24 25 | 0 48 | 23 23 | 5 50 | 19 39 | 0 59 | 13 56 | 2 4 | 18 34 | 0 44 | 5 26 | 1 57 | 0 55 | 13 0 | 10 16 | 9 45 | 18 29 | | | n.a. |
| F 3 | 23 30 | 24 59 | 3 19 | 25 8 | 1 38 | 24 24 | 0 50 | 23 27 | 5 53 | 19 36 | 0 59 | 13 56 | 2 4 | 18 35 | 0 44 | 5 26 | 1 57 | 0 55 | 13 1 | 10 19 | 9 47 | 18 26 | | | n.a. |
| S 4 | 23 27 | 20 35 | 2 12 | 25 4 | 1 42 | 24 22 | 0 52 | 23 31 | 5 57 | 19 33 | 0 59 | 13 57 | 2 5 | 18 35 | 0 44 | 5 27 | 1 57 | 0 55 | 13 1 | 10 20 | 9 48 | 18 23 | | | n.a. |
| S 5 | 23 23 | 14 56 | 0 57 | 24 57 | 1 44 | 24 19 | 0 53 | 23 36 | 6 1 | 19 30 | 0 59 | 13 58 | 2 5 | 18 36 | 0 44 | 5 27 | 1 57 | 0 55 | 13 1 | 10 21 | 9 49 | 18 20 | | | n.a. |
| M 6 | 23 19 | 8 32 | 0s22 | 24 47 | 1 46 | 24 16 | 0 55 | 23 40 | 6 4 | 19 26 | 0 59 | 13 59 | 2 5 | 18 36 | 0 44 | 5 27 | 1 57 | 0 55 | 13 1 | 10 21 | 9 50 | 18 17 | | | n.a. |
| T 7 | 23 14 | 1 50 | 1 37 | 24 35 | 1 48 | 24 12 | 0 57 | 23 45 | 6 8 | 19 23 | 0 59 | 14 0 | 2 5 | 18 37 | 0 44 | 5 27 | 1 57 | 0 55 | 13 1 | 10 21 | 9 51 | 18 15 | | | n.a. |
| W 8 | 23 9 | 4s48 | 2 45 | 24 21 | 1 48 | 24 7 | 0 59 | 23 50 | 6 11 | 19 20 | 0 59 | 14 1 | 2 6 | 18 37 | 0 44 | 5 27 | 1 57 | 0 55 | 13 2 | 10 21 | 9 52 | 18 12 | | | n.a. |
| T 9 | 23 4 | 11 3 | 3 41 | 24 4 | 1 48 | 24 2 | 1 0 | 23 55 | 6 15 | 19 17 | 0 59 | 14 3 | 2 6 | 18 38 | 0 44 | 5 27 | 1 57 | 0 55 | 13 2 | 10 21 | 9 54 | 18 9 | | | n.a. |
| F 10 | 22 58 | 16 40 | 4 25 | 23 46 | 1 48 | 23 55 | 1 2 | 24 0 | 6 18 | 19 13 | 0 59 | 14 4 | 2 6 | 18 39 | 0 44 | 5 28 | 1 57 | 0 55 | 13 2 | 10 21 | 9 55 | 18 6 | | | n.a. |
| S 11 | 22 52 | 21 24 | 4 53 | 23 25 | 1 46 | 23 48 | 1 4 | 24 5 | 6 21 | 19 10 | 0 59 | 14 5 | 2 6 | 18 39 | 0 44 | 5 28 | 1 57 | 0 55 | 13 2 | 10 23 | 9 56 | 18 4 | | | n.a. |
| S 12 | 22 45 | 25 2 | 5 7 | 23 3 | 1 45 | 23 40 | 1 5 | 24 10 | 6 24 | 19 7 | 0 59 | 14 6 | 2 6 | 18 40 | 0 44 | 5 28 | 1 57 | 0 55 | 13 2 | 10 25 | 9 57 | 18 1 | | | n.a. |
| M13 | 22 38 | 27 23 | 5 5 | 22 39 | 1 42 | 23 32 | 1 7 | 24 15 | 6 27 | 19 3 | 0 59 | 14 7 | 2 7 | 18 40 | 0 44 | 5 28 | 1 58 | 0 55 | 13 3 | 10 27 | 9 58 | 17 58 | | | n.a. |
| T 14 | 22 31 | 28 21 | 4 49 | 22 13 | 1 40 | 23 23 | 1 8 | 24 20 | 6 30 | 19 0 | 0 59 | 14 8 | 2 7 | 18 41 | 0 44 | 5 28 | 1 58 | 0 55 | 13 3 | 10 30 | 10 0 | 17 55 | | | n.a. |
| W15 | 22 23 | 27 54 | 4 19 | 21 47 | 1 36 | 23 13 | 1 10 | 24 26 | 6 33 | 18 57 | 0 59 | 14 10 | 2 7 | 18 42 | 0 44 | 5 28 | 1 58 | 0 55 | 13 3 | 10 33 | 10 1 | 17 52 | | | n.a. |
| T 16 | 22 15 | 26 7 | 3 39 | 21 18 | 1 33 | 23 2 | 1 11 | 24 31 | 6 35 | 18 53 | 0 59 | 14 11 | 2 7 | 18 42 | 0 44 | 5 28 | 1 58 | 0 55 | 13 3 | 10 36 | 10 2 | 17 49 | | | n.a. |
| F 17 | 22 6 | 23 11 | 2 49 | 20 49 | 1 28 | 22 51 | 1 12 | 24 37 | 6 37 | 18 50 | 0 59 | 14 12 | 2 8 | 18 43 | 0 44 | 5 28 | 1 58 | 0 54 | 13 4 | 10 38 | 10 3 | 17 47 | | | n.a. |
| S 18 | 21 57 | 19 17 | 1 52 | 20 18 | 1 24 | 22 39 | 1 13 | 24 42 | 6 40 | 18 46 | 0 59 | 14 14 | 2 8 | 18 43 | 0 44 | 5 28 | 1 58 | 0 54 | 13 4 | 10 40 | 10 4 | 17 44 | | | n.a. |
| S 19 | 21 47 | 14 39 | 0 50 | 19 47 | 1 19 | 22 27 | 1 15 | 24 47 | 6 42 | 18 43 | 0 59 | 14 15 | 2 8 | 18 44 | 0 44 | 5 28 | 1 58 | 0 54 | 13 4 | 10 40 | 10 5 | 17 41 | | | n.a. |
| M20 | 21 38 | 9 30 | 0n14 | 19 15 | 1 14 | 22 13 | 1 16 | 24 53 | 6 44 | 18 39 | 0 59 | 14 16 | 2 8 | 18 45 | 0 44 | 5 28 | 1 58 | 0 54 | 13 4 | 10 41 | 10 7 | 17 38 | | | n.a. |
| T 21 | 21 28 | 3 59 | 1 18 | 18 41 | 1 8 | 22 0 | 1 17 | 24 58 | 6 45 | 18 36 | 0 59 | 14 18 | 2 8 | 18 45 | 0 44 | 5 28 | 1 58 | 0 54 | 13 5 | 10 40 | 10 8 | 17 35 | | | n.a. |
| W22 | 21 17 | 1n42 | 2 19 | 18 7 | 1 2 | 21 45 | 1 18 | 25 3 | 6 47 | 18 32 | 0 59 | 14 19 | 2 9 | 18 46 | 0 44 | 5 28 | 1 58 | 0 54 | 13 5 | 10 40 | 10 9 | 17 33 | | | n.a. |
| T 23 | 21 6 | 7 25 | 3 15 | 17 33 | 0 56 | 21 30 | 1 19 | 25 9 | 6 48 | 18 29 | 0 59 | 14 20 | 2 9 | 18 47 | 0 44 | 5 28 | 1 58 | 0 54 | 13 5 | 10 39 | 10 10 | 17 30 | | | n.a. |
| F 24 | 20 55 | 12 58 | 4 3 | 16 57 | 0 49 | 21 14 | 1 20 | 25 14 | 6 49 | 18 25 | 0 59 | 14 22 | 2 9 | 18 47 | 0 44 | 5 28 | 1 58 | 0 54 | 13 5 | 10 39 | 10 11 | 17 27 | | | n.a. |
| S 25 | 20 43 | 18 8 | 4 40 | 16 22 | 0 42 | 20 57 | 1 20 | 25 19 | 6 50 | 18 22 | 0 59 | 14 23 | 2 9 | 18 48 | 0 44 | 5 28 | 1 58 | 0 54 | 13 6 | 10 39 | 10 12 | 17 24 | | | n.a. |
| S 26 | 20 31 | 22 38 | 5 5 | 15 45 | 0 35 | 20 40 | 1 21 | 25 24 | 6 51 | 18 18 | 0 59 | 14 25 | 2 9 | 18 49 | 0 44 | 5 28 | 1 58 | 0 53 | 13 6 | 10 39 | 10 14 | 17 21 | | | n.a. |
| M27 | 20 19 | 26 6 | 5 13 | 15 9 | 0 28 | 20 23 | 1 22 | 25 28 | 6 52 | 18 14 | 0 59 | 14 26 | 2 9 | 18 49 | 0 44 | 5 28 | 1 58 | 0 53 | 13 6 | 10 40 | 10 15 | 17 18 | | | n.a. |
| T 28 | 20 6 | 28 6 | 5 3 | 14 32 | 0 21 | 20 4 | 1 23 | 25 33 | 6 52 | 18 11 | 0 59 | 14 28 | 2 10 | 18 50 | 0 44 | 5 28 | 1 59 | 0 53 | 13 6 | 10 42 | 10 16 | 17 15 | | | n.a. |
| W29 | 19 53 | 28 16 | 4 34 | 13 55 | 0 13 | 19 46 | 1 23 | 25 37 | 6 52 | 18 7 | 0 59 | 14 29 | 2 10 | 18 50 | 0 44 | 5 28 | 1 59 | 0 53 | 13 7 | 10 44 | 10 17 | 17 13 | | | n.a. |
| T 30 | 19 40 | 26 25 | 3 45 | 13 18 | 0 5 | 19 26 | 1 24 | 25 41 | 6 52 | 18 3 | 0 59 | 14 31 | 2 10 | 18 51 | 0 44 | 5 28 | 1 59 | 0 53 | 13 7 | 10 45 | 10 18 | 17 10 | | | n.a. |
| F 31 | 19n26 | 22n39 | 2n41 | 12n40 | 0s 3 | 19n 6 | 1n24 | 25s45 | 6s52 | 18n 0 | 0n59 | 14s33 | 2s10 | 18s52 | 0s44 | 5n28 | 1s59 | 0n53 | 13s 7 | 10s46 | 10s19 | 17s 7 | | | n.a. |

Julian Day Number = 1686175.5, Delta T = 03h12m53s
Ecliptic obliquity = 23°42'32, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°23'51, Lahiri = - 5°16'50 Julian Calendar 1 July 97 BCE == Greg. Calendar 29 June 097 BCE

The year -96 astronomical counting style corresponds to year 097 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 97 BCE
# geocentric

## AUGUST 97 BCE (-96) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 27 25 | 5♌ 8'17 | 16♌44 | 28♌14 | 11♌55 | 5°R12 | 13♌25 | 27°R20 | 9°R11 | 18°R23 | 4♉44 | 2°R16 | 3♓29 | 17♒37 | n.a. | S 1 |
| S 2 | 20 31 22 | 6° 6'23 | 1♍50 | 29°39 | 13° 9 | 4♒55 | 13°38 | 27♒16 | 9♒ 9 | 18♈23 | 4°44 | 2°D16 | 3°26 | 17°44 | n.a. | S 2 |
| M 3 | 20 35 18 | 7° 4'32 | 16°43 | 1♍ 2 | 14°24 | 4°39 | 13°51 | 27°12 | 9° 6 | 18°23 | 4°44 | 2♓16 | 3°23 | 17°51 | n.a. | M 3 |
| T 4 | 20 39 15 | 8° 2'41 | 1♎16 | 2°23 | 15°38 | 4°23 | 14° 4 | 27° 7 | 9° 4 | 18°22 | 4°44 | 2°17 | 3°19 | 17°57 | n.a. | T 4 |
| W 5 | 20 43 11 | 9° 0'53 | 15°25 | 3°43 | 16°53 | 4° 7 | 14°17 | 27° 3 | 9° 1 | 18°22 | 4°44 | 2°19 | 3°16 | 18° 4 | n.a. | W 5 |
| T 6 | 20 47 8 | 9°59'06 | 29° 9 | 5° 1 | 18° 7 | 3°51 | 14°30 | 26°59 | 8°59 | 18°22 | 4°44 | 2°20 | 3°13 | 18°10 | n.a. | T 6 |
| F 7 | 20 51 5 | 10°57'20 | 12♏30 | 6°18 | 19°22 | 3°36 | 14°43 | 26°54 | 8°57 | 18°21 | 4°R44 | 2°R20 | 3°10 | 18°17 | n.a. | F 7 |
| S 8 | 20 55 1 | 11°55'36 | 25°29 | 7°33 | 20°36 | 3°21 | 14°56 | 26°50 | 8°54 | 18°21 | 4°44 | 2°20 | 3° 7 | 18°24 | n.a. | S 8 |
| S 9 | 20 58 58 | 12°53'54 | 8♐ 9 | 8°46 | 21°51 | 3° 6 | 15° 9 | 26°46 | 8°52 | 18°20 | 4°44 | 2°18 | 3° 4 | 18°30 | n.a. | S 9 |
| M10 | 21 2 54 | 13°52'14 | 20°34 | 9°58 | 23° 5 | 2°52 | 15°22 | 26°41 | 8°49 | 18°20 | 4°44 | 2°16 | 3° 0 | 18°37 | n.a. | M10 |
| T 11 | 21 6 51 | 14°50'35 | 2♑46 | 11° 7 | 24°20 | 2°38 | 15°35 | 26°37 | 8°47 | 18°19 | 4°44 | 2°13 | 2°57 | 18°44 | n.a. | T 11 |
| W12 | 21 10 47 | 15°48'58 | 14°48 | 12°14 | 25°34 | 2°25 | 15°48 | 26°32 | 8°45 | 18°19 | 4°44 | 2°11 | 2°54 | 18°50 | n.a. | W12 |
| T 13 | 21 14 44 | 16°47'23 | 26°44 | 13°20 | 26°49 | 2°12 | 16° 1 | 26°27 | 8°42 | 18°18 | 4°44 | 2° 8 | 2°51 | 18°57 | n.a. | T 13 |
| F 14 | 21 18 40 | 17°45'50 | 8♒34 | 14°23 | 28° 3 | 2° 0 | 16°14 | 26°23 | 8°40 | 18°17 | 4°44 | 2° 6 | 2°48 | 19° 4 | n.a. | F 14 |
| S 15 | 21 22 37 | 18°44'18 | 20°23 | 15°24 | 29°18 | 1°48 | 16°27 | 26°18 | 8°38 | 18°17 | 4°44 | 2° 5 | 2°44 | 19°10 | n.a. | S 15 |
| S 16 | 21 26 34 | 19°42'49 | 2♓11 | 16°22 | 0♍33 | 1°37 | 16°40 | 26°14 | 8°35 | 18°16 | 4°44 | 2°D 5 | 2°41 | 19°17 | n.a. | S 16 |
| M17 | 21 30 30 | 20°41'21 | 14° 1 | 17°17 | 1°47 | 1°26 | 16°53 | 26° 9 | 8°33 | 18°15 | 4°43 | 2° 5 | 2°38 | 19°24 | n.a. | M17 |
| T 18 | 21 34 27 | 21°39'56 | 25°55 | 18° 9 | 3° 2 | 1°16 | 17° 6 | 26° 4 | 8°31 | 18°15 | 4°43 | 2° 6 | 2°35 | 19°30 | n.a. | T 18 |
| W19 | 21 38 23 | 22°38'33 | 7♈57 | 18°59 | 4°16 | 1° 7 | 17°19 | 26° 0 | 8°28 | 18°14 | 4°43 | 2° 7 | 2°32 | 19°37 | n.a. | W19 |
| T 20 | 21 42 20 | 23°37'12 | 20° 9 | 19°45 | 5°31 | 0°58 | 17°32 | 25°55 | 8°26 | 18°13 | 4°43 | 2° 8 | 2°29 | 19°44 | n.a. | T 20 |
| F 21 | 21 46 16 | 24°35'54 | 2♉35 | 20°27 | 6°46 | 0°51 | 17°45 | 25°50 | 8°24 | 18°12 | 4°42 | 2° 9 | 2°25 | 19°50 | n.a. | F 21 |
| S 22 | 21 50 13 | 25°34'37 | 15°19 | 21° 5 | 8° 0 | 0°43 | 17°58 | 25°46 | 8°21 | 18°11 | 4°42 | 2° 9 | 2°22 | 19°57 | n.a. | S 22 |
| S 23 | 21 54 9 | 26°33'24 | 28°24 | 21°39 | 9°15 | 0°37 | 18°11 | 25°41 | 8°19 | 18°10 | 4°42 | 2°R 9 | 2°19 | 20° 4 | n.a. | S 23 |
| M24 | 21 58 6 | 27°32'12 | 11♊52 | 22° 9 | 10°30 | 0°31 | 18°24 | 25°36 | 8°17 | 18°10 | 4°41 | 2° 9 | 2°16 | 20°10 | n.a. | M24 |
| T 25 | 22 2 3 | 28°31'03 | 25°46 | 22°33 | 11°44 | 0°26 | 18°37 | 25°31 | 8°15 | 18° 9 | 4°41 | 2° 9 | 2°13 | 20°17 | n.a. | T 25 |
| W26 | 22 5 59 | 29°29'57 | 10♋ 5 | 22°53 | 12°59 | 0°22 | 18°50 | 25°27 | 8°12 | 18° 8 | 4°41 | 2° 8 | 2°10 | 20°23 | n.a. | W26 |
| T 27 | 22 9 56 | 0♍28'53 | 24°47 | 23° 6 | 14°13 | 0°19 | 19° 3 | 25°22 | 8°10 | 18° 7 | 4°40 | 2° 8 | 2° 6 | 20°30 | n.a. | T 27 |
| F 28 | 22 13 52 | 1°27'51 | 9♌46 | 23°13 | 15°28 | 0°17 | 19°16 | 25°17 | 8° 8 | 18° 6 | 4°40 | 2° 8 | 2° 3 | 20°37 | n.a. | F 28 |
| S 29 | 22 17 49 | 2°26'51 | 24°55 | 23°R14 | 16°43 | 0°15 | 19°29 | 25°13 | 8° 6 | 18° 5 | 4°39 | 2° 8 | 2° 0 | 20°43 | n.a. | S 29 |
| S 30 | 22 21 45 | 3°25'53 | 10♍ 5 | 23° 8 | 17°57 | 0°14 | 19°42 | 25° 8 | 8° 4 | 18° 3 | 4°39 | 2° 8 | 1°57 | 20°50 | n.a. | S 30 |
| M31 | 22 25 42 | 4♍24'58 | 25♍ 7 | 22♍55 | 19♍12 | 0°D14 | 19♌55 | 25♒ 4 | 8♒ 2 | 18♈ 2 | 4♉38 | 2♓ 8 | 1♓54 | 20♒57 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 19n12 | 17n20 | 1n24 | 12n 3 | 0s11 | 18n46 | 1n24 | 25s49 | 6s51 | 17n56 | 0n59 | 14s34 | 2s10 | 18s52 | 0s44 | 5n27 | 1s59 | 0n52 | 13s 7 | 10s47 | 10s21 | 17s 4 | | n.a. |
| S 2 | 18 57 | 10 59 | 0 2 | 11 25 | 0 20 | 18 25 | 1 25 | 25 53 | 6 51 | 17 52 | 0 59 | 14 36 | 2 10 | 18 53 | 0 44 | 5 27 | 1 59 | 0 52 | 13 7 | 10 47 | 10 22 | 17 1 | | n.a. |
| M 3 | 18 43 | 4 6 | 1s19 | 10 48 | 0 28 | 18 3 | 1 25 | 25 56 | 6 50 | 17 48 | 1 0 | 14 37 | 2 11 | 18 54 | 0 44 | 5 27 | 1 59 | 0 52 | 13 8 | 10 47 | 10 23 | 16 58 | | n.a. |
| T 4 | 18 28 | 2s51 | 2 33 | 10 10 | 0 37 | 17 41 | 1 25 | 25 59 | 6 49 | 17 45 | 1 0 | 14 39 | 2 11 | 18 54 | 0 44 | 5 27 | 1 59 | 0 52 | 13 8 | 10 47 | 10 24 | 16 55 | | n.a. |
| W 5 | 18 12 | 9 27 | 3 36 | 9 33 | 0 45 | 17 19 | 1 25 | 26 2 | 6 48 | 17 41 | 1 0 | 14 41 | 2 11 | 18 55 | 0 44 | 5 27 | 1 59 | 0 52 | 13 8 | 10 46 | 10 25 | 16 52 | | n.a. |
| T 6 | 17 57 | 15 24 | 4 24 | 8 56 | 0 54 | 16 55 | 1 25 | 26 4 | 6 46 | 17 37 | 1 0 | 14 42 | 2 11 | 18 56 | 0 44 | 5 27 | 1 59 | 0 51 | 13 8 | 10 46 | 10 26 | 16 50 | | n.a. |
| F 7 | 17 41 | 20 28 | 4 57 | 8 20 | 1 3 | 16 32 | 1 25 | 26 7 | 6 45 | 17 33 | 1 0 | 14 44 | 2 11 | 18 56 | 0 44 | 5 26 | 1 59 | 0 51 | 13 9 | 10 46 | 10 27 | 16 47 | | n.a. |
| S 8 | 17 24 | 24 25 | 5 13 | 7 44 | 1 12 | 16 8 | 1 25 | 26 8 | 6 43 | 17 29 | 1 0 | 14 46 | 2 11 | 18 57 | 0 44 | 5 26 | 1 59 | 0 51 | 13 9 | 10 46 | 10 29 | 16 44 | | n.a. |
| S 9 | 17 8 | 27 4 | 5 14 | 7 8 | 1 21 | 15 44 | 1 25 | 26 10 | 6 41 | 17 26 | 1 0 | 14 47 | 2 11 | 18 58 | 0 44 | 5 26 | 1 59 | 0 51 | 13 9 | 10 46 | 10 30 | 16 41 | | n.a. |
| M10 | 16 51 | 28 21 | 5 0 | 6 32 | 1 30 | 15 19 | 1 25 | 26 12 | 6 39 | 17 22 | 1 0 | 14 49 | 2 12 | 18 58 | 0 44 | 5 26 | 1 59 | 0 50 | 13 9 | 10 47 | 10 31 | 16 38 | | n.a. |
| T 11 | 16 34 | 28 13 | 4 32 | 5 58 | 1 38 | 14 53 | 1 25 | 26 13 | 6 36 | 17 18 | 1 0 | 14 51 | 2 12 | 18 59 | 0 44 | 5 25 | 1 59 | 0 50 | 13 10 | 10 48 | 10 32 | 16 35 | | n.a. |
| W12 | 16 16 | 26 44 | 3 53 | 5 24 | 1 47 | 14 28 | 1 25 | 26 13 | 6 34 | 17 14 | 1 0 | 14 52 | 2 12 | 18 59 | 0 44 | 5 25 | 2 0 | 0 50 | 13 10 | 10 49 | 10 33 | 16 32 | | n.a. |
| T 13 | 15 59 | 24 3 | 3 3 | 4 50 | 1 56 | 14 2 | 1 24 | 26 14 | 6 31 | 17 10 | 1 0 | 14 54 | 2 12 | 19 0 | 0 44 | 5 25 | 2 0 | 0 50 | 13 10 | 10 50 | 10 34 | 16 29 | | n.a. |
| F 14 | 15 41 | 20 21 | 2 7 | 4 18 | 2 5 | 13 35 | 1 24 | 26 14 | 6 28 | 17 6 | 1 0 | 14 56 | 2 12 | 19 1 | 0 44 | 5 24 | 2 0 | 0 49 | 13 10 | 10 51 | 10 36 | 16 26 | | n.a. |
| S 15 | 15 23 | 15 52 | 1 4 | 3 46 | 2 14 | 13 9 | 1 23 | 26 14 | 6 25 | 17 2 | 1 0 | 14 57 | 2 12 | 19 1 | 0 44 | 5 24 | 2 0 | 0 49 | 13 11 | 10 51 | 10 37 | 16 23 | | n.a. |
| S 16 | 15 4 | 10 48 | 0n 1 | 3 15 | 2 22 | 12 41 | 1 23 | 26 14 | 6 22 | 16 58 | 1 0 | 14 59 | 2 12 | 19 2 | 0 44 | 5 24 | 2 0 | 0 49 | 13 11 | 10 51 | 10 38 | 16 20 | | n.a. |
| M17 | 14 45 | 5 21 | 1 6 | 2 46 | 2 31 | 12 14 | 1 22 | 26 13 | 6 19 | 16 54 | 1 0 | 15 1 | 2 12 | 19 3 | 0 44 | 5 24 | 2 0 | 0 49 | 13 11 | 10 51 | 10 39 | 16 18 | | n.a. |
| T 18 | 14 27 | 0n19 | 2 8 | 2 18 | 2 39 | 11 46 | 1 21 | 26 12 | 6 16 | 16 50 | 1 0 | 15 2 | 2 12 | 19 3 | 0 44 | 5 23 | 2 0 | 0 48 | 13 11 | 10 51 | 10 40 | 16 15 | | n.a. |
| W19 | 14 7 | 6 2 | 3 6 | 1 51 | 2 47 | 11 18 | 1 20 | 26 11 | 6 12 | 16 47 | 1 0 | 15 4 | 2 12 | 19 4 | 0 44 | 5 23 | 2 0 | 0 48 | 13 12 | 10 50 | 10 41 | 16 12 | | n.a. |
| T 20 | 13 48 | 11 36 | 3 56 | 1 26 | 2 55 | 10 49 | 1 20 | 26 9 | 6 9 | 16 43 | 1 0 | 15 6 | 2 12 | 19 4 | 0 44 | 5 22 | 2 0 | 0 48 | 13 12 | 10 50 | 10 43 | 16 9 | | n.a. |
| F 21 | 13 28 | 16 50 | 4 37 | 1 2 | 3 3 | 10 21 | 1 19 | 26 8 | 6 5 | 16 39 | 1 1 | 15 8 | 2 13 | 19 5 | 0 44 | 5 22 | 2 0 | 0 47 | 13 12 | 10 50 | 10 44 | 16 6 | | n.a. |
| S 22 | 13 8 | 21 27 | 5 4 | 0 40 | 3 10 | 9 52 | 1 18 | 26 5 | 6 1 | 16 35 | 1 1 | 15 9 | 2 13 | 19 6 | 0 44 | 5 22 | 2 0 | 0 47 | 13 12 | 10 50 | 10 45 | 16 3 | | n.a. |
| S 23 | 12 48 | 25 10 | 5 17 | 0 20 | 3 17 | 9 22 | 1 17 | 26 3 | 5 58 | 16 31 | 1 1 | 15 11 | 2 13 | 19 6 | 0 44 | 5 21 | 2 0 | 0 47 | 13 13 | 10 50 | 10 46 | 16 0 | | n.a. |
| M24 | 12 28 | 27 38 | 5 13 | 0 3 | 3 23 | 8 53 | 1 16 | 26 1 | 5 54 | 16 27 | 1 1 | 15 13 | 2 13 | 19 7 | 0 44 | 5 21 | 2 0 | 0 46 | 13 13 | 10 50 | 10 47 | 15 57 | | n.a. |
| T 25 | 12 7 | 28 30 | 4 51 | 0s12 | 3 29 | 8 23 | 1 14 | 25 58 | 5 50 | 16 23 | 1 1 | 15 14 | 2 13 | 19 7 | 0 44 | 5 21 | 2 0 | 0 46 | 13 13 | 10 50 | 10 48 | 15 54 | | n.a. |
| W26 | 11 47 | 27 29 | 4 11 | 0 25 | 3 34 | 7 53 | 1 13 | 25 55 | 5 46 | 16 19 | 1 1 | 15 16 | 2 13 | 19 8 | 0 44 | 5 20 | 2 0 | 0 46 | 13 13 | 10 50 | 10 49 | 15 51 | | n.a. |
| T 27 | 11 26 | 24 35 | 3 13 | 0 34 | 3 38 | 7 23 | 1 12 | 25 52 | 5 41 | 16 15 | 1 1 | 15 17 | 2 13 | 19 8 | 0 44 | 5 20 | 2 0 | 0 45 | 13 13 | 10 50 | 10 51 | 15 48 | | n.a. |
| F 28 | 11 4 | 19 57 | 2 1 | 0 40 | 3 42 | 6 52 | 1 11 | 25 48 | 5 37 | 16 11 | 1 1 | 15 19 | 2 13 | 19 9 | 0 44 | 5 19 | 2 0 | 0 45 | 13 14 | 10 50 | 10 52 | 15 45 | | n.a. |
| S 29 | 10 43 | 13 59 | 0 40 | 0 43 | 3 44 | 6 22 | 1 9 | 25 44 | 5 33 | 16 7 | 1 1 | 15 21 | 2 13 | 19 10 | 0 44 | 5 19 | 2 0 | 0 45 | 13 14 | 10 50 | 10 53 | 15 42 | | n.a. |
| S 30 | 10 22 | 7 12 | 0s44 | 0 42 | 3 46 | 5 51 | 1 8 | 25 41 | 5 29 | 16 3 | 1 1 | 15 22 | 2 13 | 19 10 | 0 44 | 5 18 | 2 1 | 0 44 | 13 14 | 10 50 | 10 54 | 15 39 | | n.a. |
| M31 | 10n 0 | 0n 4 | 2s 4 | 0s37 | 3s46 | 5n20 | 1n 6 | 25s36 | 5s25 | 15n59 | 1n 1 | 15s24 | 2s13 | 19s11 | 0s44 | 5n18 | 2s 1 | 0n44 | 13s14 | 10s50 | 10s55 | 15s36 | | n.a. |

Julian Day Number = 1686206.5, Delta T = 03h12m52s
Ecliptic obliquity = 23°42'32, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°23'47, Lahiri = - 5°16'46 Julian Calendar 1 Aug. 97 BCE == Greg. Calendar 30 July 097 BCE

The year -96 astronomical counting style corresponds to year 097 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 97 BCE
# geocentric

## SEPTEMBER 97 BCE (-96) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 22 29 38 | 5♍24'04 | 9♎51 | 22°R34 | 20♍27 | 0♒14 | 20♌ 7 | 24°R59 | 8°R 0 | 18°R 1 | 4°R38 | 2°R 8 | 1♓50 | 21♒ 3 | n.a. | T 1 |
| W 2 | 22 33 35 | 6°23'12 | 24°12 | 22♍ 6 | 21°41 | 0°16 | 20°20 | 24♒54 | 7♒58 | 18♈ 0 | 4♉37 | 2♓ 7 | 1°47 | 21°10 | n.a. | W 2 |
| T 3 | 22 37 31 | 7°22'23 | 8♏ 7 | 21°30 | 22°56 | 0°18 | 20°33 | 24°50 | 7°56 | 17°59 | 4°37 | 2° 7 | 1°44 | 21°17 | n.a. | T 3 |
| F 4 | 22 41 28 | 8°21'35 | 21°35 | 20°46 | 24°11 | 0°21 | 20°46 | 24°45 | 7°54 | 17°58 | 4°36 | 2° 6 | 1°41 | 21°23 | n.a. | F 4 |
| S 5 | 22 45 25 | 9°20'49 | 4♐38 | 19°55 | 25°25 | 0°25 | 20°58 | 24°41 | 7°52 | 17°56 | 4°36 | 2°D 6 | 1°38 | 21°30 | n.a. | S 5 |
| S 6 | 22 49 21 | 10°20'05 | 17°17 | 18°57 | 26°40 | 0°30 | 21°11 | 24°37 | 7°50 | 17°55 | 4°35 | 2° 6 | 1°35 | 21°37 | n.a. | S 6 |
| M 7 | 22 53 18 | 11°19'23 | 29°38 | 17°54 | 27°55 | 0°35 | 21°24 | 24°32 | 7°48 | 17°54 | 4°35 | 2° 7 | 1°31 | 21°43 | n.a. | M 7 |
| T 8 | 22 57 14 | 12°18'43 | 11♑45 | 16°47 | 29° 9 | 0°41 | 21°36 | 24°28 | 7°46 | 17°53 | 4°34 | 2° 7 | 1°28 | 21°50 | n.a. | T 8 |
| W 9 | 23 1 11 | 13°18'05 | 23°41 | 15°37 | 0♎24 | 0°48 | 21°49 | 24°23 | 7°44 | 17°51 | 4°33 | 2° 8 | 1°25 | 21°57 | n.a. | W 9 |
| T 10 | 23 5 7 | 14°17'28 | 5♒32 | 14°25 | 1°39 | 0°56 | 22° 2 | 24°19 | 7°43 | 17°50 | 4°33 | 2°10 | 1°22 | 22° 3 | n.a. | T 10 |
| F 11 | 23 9 4 | 15°16'54 | 17°19 | 13°15 | 2°53 | 1° 5 | 22°14 | 24°15 | 7°41 | 17°49 | 4°32 | 2°11 | 1°19 | 22°10 | n.a. | F 11 |
| S 12 | 23 13 0 | 16°16'21 | 29° 8 | 12° 7 | 4° 8 | 1°14 | 22°27 | 24°11 | 7°39 | 17°47 | 4°31 | 2°R11 | 1°16 | 22°16 | n.a. | S 12 |
| S 13 | 23 16 57 | 17°15'51 | 10♓59 | 11° 4 | 5°22 | 1°24 | 22°39 | 24° 7 | 7°37 | 17°46 | 4°31 | 2°11 | 1°12 | 22°23 | n.a. | S 13 |
| M14 | 23 20 54 | 18°15'23 | 22°56 | 10° 8 | 6°37 | 1°34 | 22°51 | 24° 3 | 7°36 | 17°44 | 4°30 | 2°10 | 1° 9 | 22°30 | n.a. | M14 |
| T 15 | 23 24 50 | 19°14'56 | 5♈ 1 | 9°20 | 7°52 | 1°45 | 23° 4 | 23°59 | 7°34 | 17°43 | 4°29 | 2° 8 | 1° 6 | 22°36 | n.a. | T 15 |
| W16 | 23 28 47 | 20°14'32 | 17°14 | 8°42 | 9° 6 | 1°57 | 23°16 | 23°55 | 7°33 | 17°42 | 4°28 | 2° 5 | 1° 3 | 22°43 | n.a. | W16 |
| T 17 | 23 32 43 | 21°14'10 | 29°38 | 8°14 | 10°21 | 2°10 | 23°28 | 23°51 | 7°31 | 17°40 | 4°28 | 2° 2 | 1° 0 | 22°50 | n.a. | T 17 |
| F 18 | 23 36 40 | 22°13'51 | 12♉15 | 7°57 | 11°35 | 2°23 | 23°41 | 23°47 | 7°29 | 17°39 | 4°27 | 1°59 | 0°56 | 22°56 | n.a. | F 18 |
| S 19 | 23 40 36 | 23°13'34 | 25° 6 | 7°D51 | 12°50 | 2°37 | 23°53 | 23°43 | 7°28 | 17°37 | 4°26 | 1°57 | 0°53 | 23° 3 | n.a. | S 19 |
| S 20 | 23 44 33 | 24°13'19 | 8♊13 | 7°56 | 14° 5 | 2°51 | 24° 5 | 23°39 | 7°27 | 17°36 | 4°25 | 1°55 | 0°50 | 23°10 | n.a. | S 20 |
| M21 | 23 48 29 | 25°13'07 | 21°38 | 8°12 | 15°19 | 3° 6 | 24°17 | 23°36 | 7°25 | 17°34 | 4°24 | 1°D54 | 0°47 | 23°16 | n.a. | M21 |
| T 22 | 23 52 26 | 26°12'57 | 5♋22 | 8°39 | 16°34 | 3°22 | 24°29 | 23°32 | 7°24 | 17°33 | 4°24 | 1°54 | 0°44 | 23°23 | n.a. | T 22 |
| W23 | 23 56 23 | 27°12'49 | 19°26 | 9°15 | 17°48 | 3°38 | 24°41 | 23°29 | 7°23 | 17°31 | 4°23 | 1°55 | 0°41 | 23°30 | n.a. | W23 |
| T 24 | 0 0 19 | 28°12'44 | 3♌48 | 9°59 | 19° 3 | 3°55 | 24°53 | 23°25 | 7°21 | 17°29 | 4°22 | 1°57 | 0°37 | 23°36 | n.a. | T 24 |
| F 25 | 0 4 16 | 29°12'41 | 18°27 | 10°52 | 20°18 | 4°12 | 25° 5 | 23°22 | 7°20 | 17°28 | 4°21 | 1°58 | 0°34 | 23°43 | n.a. | F 25 |
| S 26 | 0 8 12 | 0♎12'40 | 3♍19 | 11°51 | 21°32 | 4°30 | 25°17 | 23°19 | 7°19 | 17°26 | 4°20 | 1°R59 | 0°31 | 23°50 | n.a. | S 26 |
| S 27 | 0 12 9 | 1°12'41 | 18°15 | 12°57 | 22°47 | 4°49 | 25°28 | 23°15 | 7°18 | 17°25 | 4°19 | 1°58 | 0°28 | 23°56 | n.a. | S 27 |
| M28 | 0 16 5 | 2°12'45 | 3♎ 9 | 14° 8 | 24° 1 | 5° 8 | 25°40 | 23°12 | 7°17 | 17°23 | 4°18 | 1°55 | 0°25 | 24° 3 | n.a. | M28 |
| T 29 | 0 20 2 | 3°12'50 | 17°52 | 15°24 | 25°16 | 5°27 | 25°52 | 23° 9 | 7°16 | 17°21 | 4°17 | 1°52 | 0°21 | 24° 9 | n.a. | T 29 |
| W30 | 0 23 58 | 4♎12'57 | 2♏17 | 16♍44 | 26♎30 | 5♒47 | 26♌ 3 | 23♒ 6 | 7♒15 | 17♈20 | 4♉16 | 1♓47 | 0♓18 | 24♒16 | n.a. | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 9n38 | 6s55 | 3s15 | 0s28 | 3s45 | 4n49 | 1n 5 | 25s32 | 5s20 | 15n55 | 1n 1 | 15s25 | 2s13 | 19s11 | 0s44 | 5n17 | 2s 1 | 0n44 | 13s14 | 10s50 | 10s56 | 15s33 | | n.a. |
| W 2 | 9 16 | 13 22 | 4 11 | 0 14 | 3 43 | 4 18 | 1 3 | 25 28 | 5 16 | 15 51 | 1 2 | 15 27 | 2 13 | 19 12 | 0 44 | 5 17 | 2 1 | 0 43 | 13 15 | 10 50 | 10 57 | 15 30 | | n.a. |
| T 3 | 8 54 | 18 56 | 4 50 | 0n 4 | 3 38 | 3 46 | 1 1 | 25 23 | 5 12 | 15 47 | 1 2 | 15 29 | 2 13 | 19 12 | 0 44 | 5 16 | 2 1 | 0 43 | 13 15 | 10 50 | 10 59 | 15 27 | | n.a. |
| F 4 | 8 32 | 23 23 | 5 12 | 0 27 | 3 32 | 3 15 | 1 0 | 25 18 | 5 7 | 15 43 | 1 2 | 15 30 | 2 13 | 19 13 | 0 44 | 5 16 | 2 1 | 0 43 | 13 15 | 10 51 | 11 0 | 15 24 | | n.a. |
| S 5 | 8 9 | 26 30 | 5 17 | 0 55 | 3 24 | 2 43 | 0 58 | 25 13 | 5 3 | 15 38 | 1 2 | 15 32 | 2 13 | 19 13 | 0 44 | 5 15 | 2 1 | 0 42 | 13 15 | 10 51 | 11 1 | 15 21 | | n.a. |
| S 6 | 7 47 | 28 11 | 5 7 | 1 27 | 3 14 | 2 12 | 0 56 | 25 7 | 4 58 | 15 34 | 1 2 | 15 33 | 2 13 | 19 14 | 0 44 | 5 15 | 2 1 | 0 42 | 13 15 | 10 51 | 11 2 | 15 18 | | n.a. |
| M 7 | 7 24 | 28 24 | 4 42 | 2 2 | 3 2 | 1 40 | 0 54 | 25 2 | 4 54 | 15 30 | 1 2 | 15 35 | 2 13 | 19 14 | 0 44 | 5 14 | 2 1 | 0 42 | 13 16 | 10 50 | 11 3 | 15 15 | | n.a. |
| T 8 | 7 1 | 27 15 | 4 5 | 2 41 | 2 49 | 1 8 | 0 52 | 24 56 | 4 50 | 15 26 | 1 2 | 15 36 | 2 13 | 19 15 | 0 44 | 5 14 | 2 1 | 0 41 | 13 16 | 10 50 | 11 4 | 15 12 | | n.a. |
| W 9 | 6 38 | 24 51 | 3 18 | 3 23 | 2 33 | 0 36 | 0 50 | 24 50 | 4 45 | 15 22 | 1 2 | 15 38 | 2 13 | 19 15 | 0 44 | 5 13 | 2 1 | 0 41 | 13 16 | 10 50 | 11 5 | 15 9 | | n.a. |
| T 10 | 6 15 | 21 24 | 2 23 | 4 7 | 2 16 | 0 5 | 0 48 | 24 44 | 4 41 | 15 18 | 1 2 | 15 39 | 2 13 | 19 16 | 0 44 | 5 13 | 2 1 | 0 40 | 13 16 | 10 49 | 11 7 | 15 6 | | n.a. |
| F 11 | 5 52 | 17 7 | 1 22 | 4 51 | 1 57 | 0s27 | 0 46 | 24 38 | 4 37 | 15 14 | 1 3 | 15 40 | 2 13 | 19 16 | 0 44 | 5 12 | 2 1 | 0 40 | 13 16 | 10 49 | 11 8 | 15 3 | | n.a. |
| S 12 | 5 29 | 12 10 | 0 17 | 5 35 | 1 38 | 0 59 | 0 44 | 24 32 | 4 32 | 15 10 | 1 3 | 15 42 | 2 13 | 19 16 | 0 44 | 5 12 | 2 1 | 0 40 | 13 17 | 10 49 | 11 9 | 15 0 | | n.a. |
| S 13 | 5 5 | 6 47 | 0n49 | 6 18 | 1 17 | 1 31 | 0 42 | 24 25 | 4 28 | 15 6 | 1 3 | 15 43 | 2 13 | 19 17 | 0 44 | 5 11 | 2 1 | 0 39 | 13 17 | 10 49 | 11 10 | 14 57 | | n.a. |
| M14 | 4 42 | 1 7 | 1 52 | 6 59 | 0 57 | 2 3 | 0 40 | 24 19 | 4 24 | 15 2 | 1 3 | 15 44 | 2 13 | 19 17 | 0 44 | 5 10 | 2 1 | 0 39 | 13 17 | 10 49 | 11 11 | 14 54 | | n.a. |
| T 15 | 4 18 | 4n38 | 2 52 | 7 36 | 0 37 | 2 35 | 0 38 | 24 12 | 4 19 | 14 58 | 1 3 | 15 46 | 2 13 | 19 18 | 0 44 | 5 10 | 2 1 | 0 38 | 13 17 | 10 50 | 11 12 | 14 51 | | n.a. |
| W16 | 3 54 | 10 17 | 3 44 | 8 8 | 0 17 | 3 6 | 0 35 | 24 5 | 4 15 | 14 54 | 1 3 | 15 47 | 2 13 | 19 18 | 0 44 | 5 9 | 2 1 | 0 38 | 13 17 | 10 51 | 11 13 | 14 48 | | n.a. |
| T 17 | 3 31 | 15 37 | 4 26 | 8 37 | 0n 2 | 3 38 | 0 33 | 23 58 | 4 11 | 14 50 | 1 3 | 15 48 | 2 13 | 19 18 | 0 44 | 5 9 | 2 1 | 0 38 | 13 17 | 10 52 | 11 15 | 14 45 | | n.a. |
| F 18 | 3 7 | 20 23 | 4 57 | 9 0 | 0 20 | 4 10 | 0 31 | 23 51 | 4 7 | 14 46 | 1 3 | 15 50 | 2 13 | 19 19 | 0 44 | 5 8 | 2 1 | 0 37 | 13 18 | 10 53 | 11 16 | 14 42 | | n.a. |
| S 19 | 2 43 | 24 18 | 5 13 | 9 17 | 0 37 | 4 41 | 0 28 | 23 44 | 4 3 | 14 43 | 1 3 | 15 51 | 2 12 | 19 19 | 0 44 | 5 7 | 2 1 | 0 37 | 13 18 | 10 54 | 11 17 | 14 39 | | n.a. |
| S 20 | 2 19 | 27 4 | 5 13 | 9 29 | 0 52 | 5 13 | 0 26 | 23 36 | 3 58 | 14 39 | 1 4 | 15 52 | 2 12 | 19 19 | 0 44 | 5 7 | 2 1 | 0 36 | 13 18 | 10 55 | 11 18 | 14 36 | | n.a. |
| M21 | 1 55 | 28 23 | 4 57 | 9 36 | 1 6 | 5 44 | 0 24 | 23 29 | 3 54 | 14 35 | 1 4 | 15 53 | 2 12 | 19 20 | 0 44 | 5 6 | 2 1 | 0 36 | 13 18 | 10 55 | 11 19 | 14 33 | | n.a. |
| T 22 | 1 31 | 27 59 | 4 23 | 9 37 | 1 18 | 6 16 | 0 21 | 23 21 | 3 50 | 14 31 | 1 4 | 15 54 | 2 12 | 19 20 | 0 44 | 5 6 | 2 1 | 0 36 | 13 18 | 10 55 | 11 20 | 14 30 | | n.a. |
| W23 | 1 7 | 25 48 | 3 33 | 9 34 | 1 29 | 6 47 | 0 19 | 23 13 | 3 46 | 14 27 | 1 4 | 15 55 | 2 12 | 19 20 | 0 44 | 5 5 | 2 1 | 0 35 | 13 18 | 10 55 | 11 21 | 14 27 | | n.a. |
| T 24 | 0 43 | 21 56 | 2 29 | 9 25 | 1 38 | 7 18 | 0 16 | 23 5 | 3 42 | 14 23 | 1 4 | 15 56 | 2 12 | 19 21 | 0 44 | 5 4 | 2 1 | 0 35 | 13 19 | 10 54 | 11 23 | 14 24 | | n.a. |
| F 25 | 0 19 | 16 38 | 1 14 | 9 12 | 1 46 | 7 48 | 0 14 | 22 57 | 3 38 | 14 19 | 1 4 | 15 57 | 2 12 | 19 21 | 0 44 | 5 4 | 2 1 | 0 34 | 13 19 | 10 54 | 11 24 | 14 21 | | n.a. |
| S 26 | 0s 5 | 10 17 | 0s 7 | 8 55 | 1 52 | 8 19 | 0 11 | 22 49 | 3 34 | 14 15 | 1 4 | 15 58 | 2 12 | 19 21 | 0 44 | 5 3 | 2 2 | 0 34 | 13 19 | 10 53 | 11 25 | 14 18 | | n.a. |
| S 27 | 0 29 | 3 21 | 1 28 | 8 34 | 1 57 | 8 50 | 0 8 | 22 41 | 3 31 | 14 11 | 1 5 | 15 59 | 2 12 | 19 22 | 0 44 | 5 2 | 2 2 | 0 33 | 13 19 | 10 54 | 11 26 | 14 15 | | n.a. |
| M28 | 0 53 | 3s45 | 2 43 | 8 10 | 2 1 | 9 20 | 0 6 | 22 32 | 3 27 | 14 7 | 1 5 | 16 0 | 2 12 | 19 22 | 0 44 | 5 2 | 2 2 | 0 33 | 13 19 | 10 55 | 11 27 | 14 12 | | n.a. |
| T 29 | 1 18 | 10 33 | 3 45 | 7 43 | 2 4 | 9 50 | 0 3 | 22 24 | 3 23 | 14 4 | 1 5 | 16 1 | 2 12 | 19 22 | 0 44 | 5 1 | 2 2 | 0 33 | 13 19 | 10 56 | 11 28 | 14 9 | | n.a. |
| W30 | 1s42 | 16s39 | 4s32 | 7n13 | 2n 5 | 10s20 | 0n 1 | 22s15 | 3s19 | 14n 0 | 1n 5 | 16s 2 | 2s12 | 19s22 | 0s44 | 5n 1 | 2s 2 | 0n32 | 13s19 | 10s58 | 11s29 | 14s 6 | | n.a. |

Julian Day Number = 1686237.5, Delta T = 03h12m51s
Ecliptic obliquity = 23°42'33, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°23'42, Lahiri = - 5°16'42 Julian Calendar 1 Sept. 97 BCE == Greg. Calendar 30 Aug. 097 BCE


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# ASTRODIENST EPHEMERIS for the year 97 BCE
# geocentric

## OCTOBER 97 BCE (-96) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 27 55 | 5♎13'06 | 16♏19 | 18♍ 8 | 27♎45 | 6♒ 8 | 26♌15 | 23°R 3 | 7°R14 | 17°R18 | 4°R15 | 1°R41 | 0♓15 | 24♒23 | n.a. | T 1 |
| F 2 | 0 31 51 | 6°13'17 | 29°54 | 19°34 | 28°59 | 6°29 | 26°26 | 23♒ 1 | 7♒13 | 17♈16 | 4♉14 | 1♓36 | 0°12 | 24°29 | n.a. | F 2 |
| S 3 | 0 35 48 | 7°13'30 | 13♐ 2 | 21° 3 | 0♏14 | 6°50 | 26°37 | 22°58 | 7°12 | 17°15 | 4°13 | 1°32 | 0° 9 | 24°36 | n.a. | S 3 |
| S 4 | 0 39 45 | 8°13'44 | 25°45 | 22°33 | 1°28 | 7°12 | 26°49 | 22°55 | 7°11 | 17°13 | 4°12 | 1°30 | 0° 6 | 24°43 | n.a. | S 4 |
| M 5 | 0 43 41 | 9°14'00 | 8♑ 8 | 24° 6 | 2°43 | 7°35 | 27° 0 | 22°53 | 7°10 | 17°11 | 4°11 | 1°D29 | 0° 2 | 24°49 | n.a. | M 5 |
| T 6 | 0 47 38 | 10°14'17 | 20°14 | 25°39 | 3°57 | 7°58 | 27°11 | 22°51 | 7°10 | 17°10 | 4°10 | 1°30 | 29♒59 | 24°56 | n.a. | T 6 |
| W 7 | 0 51 34 | 11°14'36 | 2♒ 8 | 27°14 | 5°12 | 8°21 | 27°22 | 22°48 | 7° 9 | 17° 8 | 4° 9 | 1°31 | 29°56 | 25° 3 | n.a. | W 7 |
| T 8 | 0 55 31 | 12°14'57 | 13°57 | 28°49 | 6°26 | 8°45 | 27°33 | 22°46 | 7° 8 | 17° 6 | 4° 8 | 1°33 | 29°53 | 25° 9 | n.a. | T 8 |
| F 9 | 0 59 27 | 13°15'19 | 25°44 | 0♎25 | 7°41 | 9° 9 | 27°44 | 22°44 | 7° 8 | 17° 5 | 4° 7 | 1°R34 | 29°50 | 25°16 | n.a. | F 9 |
| S 10 | 1 3 24 | 14°15'42 | 7♓34 | 2° 1 | 8°55 | 9°33 | 27°55 | 22°42 | 7° 7 | 17° 3 | 4° 6 | 1°34 | 29°47 | 25°23 | n.a. | S 10 |
| S 11 | 1 7 20 | 15°16'08 | 19°31 | 3°38 | 10°10 | 9°58 | 28° 6 | 22°40 | 7° 7 | 17° 1 | 4° 5 | 1°32 | 29°43 | 25°29 | n.a. | S 11 |
| M12 | 1 11 17 | 16°16'34 | 1♈37 | 5°15 | 11°24 | 10°23 | 28°16 | 22°38 | 7° 6 | 17° 0 | 4° 4 | 1°28 | 29°40 | 25°36 | n.a. | M12 |
| T 13 | 1 15 14 | 17°17'03 | 13°55 | 6°52 | 12°39 | 10°49 | 28°27 | 22°36 | 7° 6 | 16°58 | 4° 3 | 1°22 | 29°37 | 25°42 | n.a. | T 13 |
| W14 | 1 19 10 | 18°17'33 | 26°25 | 8°29 | 13°53 | 11°15 | 28°37 | 22°35 | 7° 6 | 16°56 | 4° 2 | 1°14 | 29°34 | 25°49 | n.a. | W14 |
| T 15 | 1 23 7 | 19°18'05 | 9♉ 9 | 10° 6 | 15° 7 | 11°41 | 28°48 | 22°33 | 7° 6 | 16°55 | 4° 1 | 1° 5 | 29°31 | 25°56 | n.a. | T 15 |
| F 16 | 1 27 3 | 20°18'38 | 22° 5 | 11°43 | 16°22 | 12° 8 | 28°58 | 22°32 | 7° 5 | 16°53 | 4° 0 | 0°56 | 29°27 | 26° 2 | n.a. | F 16 |
| S 17 | 1 31 0 | 21°19'14 | 5♊13 | 13°20 | 17°36 | 12°35 | 29° 8 | 22°30 | 7° 5 | 16°51 | 3°58 | 0°48 | 29°24 | 26° 9 | n.a. | S 17 |
| S 18 | 1 34 56 | 22°19'51 | 18°33 | 14°56 | 18°50 | 13° 2 | 29°18 | 22°29 | 7° 5 | 16°49 | 3°57 | 0°41 | 29°21 | 26°16 | n.a. | S 18 |
| M19 | 1 38 53 | 23°20'30 | 2♋ 5 | 16°33 | 20° 5 | 13°30 | 29°28 | 22°28 | 7° 5 | 16°48 | 3°56 | 0°37 | 29°18 | 26°22 | n.a. | M19 |
| T 20 | 1 42 49 | 24°21'11 | 15°49 | 18° 9 | 21°19 | 13°58 | 29°38 | 22°27 | 7°D 5 | 16°46 | 3°55 | 0°35 | 29°15 | 26°29 | n.a. | T 20 |
| W21 | 1 46 46 | 25°21'54 | 29°44 | 19°45 | 22°33 | 14°26 | 29°48 | 22°26 | 7° 5 | 16°44 | 3°54 | 0°D34 | 29°12 | 26°36 | n.a. | W21 |
| T 22 | 1 50 43 | 26°22'39 | 13♌51 | 21°21 | 23°48 | 14°54 | 29°58 | 22°25 | 7° 5 | 16°43 | 3°53 | 0°35 | 29° 8 | 26°42 | n.a. | T 22 |
| F 23 | 1 54 39 | 27°23'25 | 28° 8 | 22°57 | 25° 2 | 15°23 | 0♍ 8 | 22°25 | 7° 5 | 16°41 | 3°52 | 0°R36 | 29° 5 | 26°49 | n.a. | F 23 |
| S 24 | 1 58 36 | 28°24'13 | 12♍34 | 24°32 | 26°16 | 15°52 | 0°17 | 22°24 | 7° 5 | 16°39 | 3°51 | 0°35 | 29° 2 | 26°56 | n.a. | S 24 |
| S 25 | 2 2 32 | 29°25'02 | 27° 6 | 26° 8 | 27°30 | 16°21 | 0°26 | 22°24 | 7° 6 | 16°38 | 3°49 | 0°33 | 28°59 | 27° 2 | n.a. | S 25 |
| M26 | 2 6 29 | 0♏25'53 | 11♎37 | 27°43 | 28°45 | 16°51 | 0°36 | 22°23 | 7° 6 | 16°36 | 3°48 | 0°27 | 28°56 | 27° 9 | n.a. | M26 |
| T 27 | 2 10 25 | 1°26'46 | 26° 3 | 29°18 | 29°59 | 17°21 | 0°45 | 22°23 | 7° 6 | 16°34 | 3°47 | 0°19 | 28°53 | 27°16 | n.a. | T 27 |
| W28 | 2 14 22 | 2°27'39 | 10♏17 | 0♏53 | 1♐13 | 17°51 | 0°54 | 22°23 | 7° 7 | 16°33 | 3°46 | 0° 9 | 28°49 | 27°22 | n.a. | W28 |
| T 29 | 2 18 18 | 3°28'35 | 24°12 | 2°28 | 2°27 | 18°21 | 1° 3 | 22°D23 | 7° 7 | 16°31 | 3°45 | 29♒58 | 28°46 | 27°29 | n.a. | T 29 |
| F 30 | 2 22 15 | 4°29'31 | 7♐45 | 4° 2 | 3°42 | 18°52 | 1°12 | 22°23 | 7° 8 | 16°30 | 3°44 | 29°47 | 28°43 | 27°35 | n.a. | F 30 |
| S 31 | 2 26 12 | 5♏30'28 | 20♐54 | 5♏37 | 4♐56 | 19♒23 | 1♍21 | 22♒23 | 7♒ 8 | 16♈28 | 3♉43 | 29♒38 | 28♒40 | 27♒42 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| T 1 | 2s 6 | 21s42 | 5s 1 | 6n40 | 2n 6 | 10s49 | 0s 2 | 22s 6 | 3s15 | 13n56 | 1n 5 | 16s 3 | 2s11 | 19s22 | 0s44 | 5n 0 | 2s 2 | 0n32 | 13s19 | 11s 0 | 11s31 | 14s 2 | | | n.a. |
| F 2 | 2 30 | 25 26 | 5 12 | 6 6 | 2 6 | 11 19 | 0 5 | 21 57 | 3 12 | 13 52 | 1 5 | 16 4 | 2 11 | 19 23 | 0 44 | 4 59 | 2 2 | 0 31 | 13 19 | 11 1 | 11 32 | 13 59 | | | n.a. |
| S 3 | 2 54 | 27 40 | 5 6 | 5 30 | 2 5 | 11 48 | 0 7 | 21 48 | 3 8 | 13 48 | 1 6 | 16 5 | 2 11 | 19 23 | 0 44 | 4 59 | 2 2 | 0 31 | 13 20 | 11 3 | 11 33 | 13 56 | | | n.a. |
| S 4 | 3 18 | 28 23 | 4 45 | 4 52 | 2 3 | 12 17 | 0 10 | 21 39 | 3 5 | 13 45 | 1 6 | 16 5 | 2 11 | 19 23 | 0 44 | 4 58 | 2 2 | 0 31 | 13 20 | 11 4 | 11 34 | 13 53 | | | n.a. |
| M 5 | 3 42 | 27 38 | 4 11 | 4 13 | 2 1 | 12 45 | 0 13 | 21 30 | 3 1 | 13 41 | 1 6 | 16 6 | 2 11 | 19 23 | 0 43 | 4 57 | 2 2 | 0 30 | 13 20 | 11 4 | 11 35 | 13 50 | | | n.a. |
| T 6 | 4 6 | 25 34 | 3 26 | 3 33 | 1 58 | 13 13 | 0 15 | 21 20 | 2 58 | 13 37 | 1 6 | 16 7 | 2 11 | 19 23 | 0 43 | 4 57 | 2 2 | 0 30 | 13 20 | 11 4 | 11 36 | 13 47 | | | n.a. |
| W 7 | 4 30 | 22 24 | 2 33 | 2 52 | 1 55 | 13 41 | 0 18 | 21 11 | 2 54 | 13 33 | 1 6 | 16 7 | 2 11 | 19 24 | 0 43 | 4 56 | 2 2 | 0 29 | 13 20 | 11 3 | 11 37 | 13 44 | | | n.a. |
| T 8 | 4 54 | 18 20 | 1 34 | 2 10 | 1 51 | 14 9 | 0 21 | 21 1 | 2 51 | 13 30 | 1 6 | 16 8 | 2 11 | 19 24 | 0 43 | 4 55 | 2 2 | 0 29 | 13 20 | 11 3 | 11 38 | 13 41 | | | n.a. |
| F 9 | 5 17 | 13 35 | 0 32 | 1 28 | 1 47 | 14 36 | 0 24 | 20 51 | 2 47 | 13 26 | 1 7 | 16 9 | 2 10 | 19 24 | 0 43 | 4 55 | 2 2 | 0 28 | 13 20 | 11 2 | 11 40 | 13 38 | | | n.a. |
| S 10 | 5 41 | 8 19 | 0n33 | 0 45 | 1 42 | 15 3 | 0 26 | 20 41 | 2 44 | 13 23 | 1 7 | 16 9 | 2 10 | 19 24 | 0 43 | 4 54 | 2 2 | 0 28 | 13 20 | 11 2 | 11 41 | 13 35 | | | n.a. |
| S 11 | 6 5 | 2 44 | 1 36 | 0 1 | 1 37 | 15 29 | 0 29 | 20 31 | 2 41 | 13 19 | 1 7 | 16 10 | 2 10 | 19 24 | 0 43 | 4 53 | 2 2 | 0 28 | 13 20 | 11 3 | 11 42 | 13 32 | | | n.a. |
| M12 | 6 28 | 3n 1 | 2 35 | 0s42 | 1 32 | 15 55 | 0 32 | 20 21 | 2 37 | 13 15 | 1 7 | 16 10 | 2 10 | 19 24 | 0 43 | 4 53 | 2 2 | 0 27 | 13 20 | 11 4 | 11 43 | 13 29 | | | n.a. |
| T 13 | 6 52 | 8 45 | 3 29 | 1 26 | 1 27 | 16 21 | 0 34 | 20 11 | 2 34 | 13 12 | 1 7 | 16 11 | 2 10 | 19 24 | 0 43 | 4 52 | 2 2 | 0 27 | 13 20 | 11 7 | 11 44 | 13 25 | | | n.a. |
| W14 | 7 15 | 14 13 | 4 13 | 2 10 | 1 21 | 16 46 | 0 37 | 20 1 | 2 31 | 13 8 | 1 7 | 16 11 | 2 10 | 19 24 | 0 43 | 4 51 | 2 2 | 0 26 | 13 20 | 11 9 | 11 45 | 13 22 | | | n.a. |
| T 15 | 7 38 | 19 12 | 4 45 | 2 54 | 1 15 | 17 11 | 0 40 | 19 50 | 2 28 | 13 5 | 1 8 | 16 11 | 2 10 | 19 24 | 0 43 | 4 51 | 2 2 | 0 26 | 13 20 | 11 13 | 11 46 | 13 19 | | | n.a. |
| F 16 | 8 1 | 23 22 | 5 3 | 3 38 | 1 9 | 17 35 | 0 42 | 19 40 | 2 25 | 13 1 | 1 8 | 16 12 | 2 9 | 19 24 | 0 43 | 4 50 | 2 2 | 0 26 | 13 20 | 11 16 | 11 47 | 13 16 | | | n.a. |
| S 17 | 8 24 | 26 25 | 5 6 | 4 21 | 1 3 | 17 59 | 0 45 | 19 29 | 2 22 | 12 58 | 1 8 | 16 12 | 2 9 | 19 24 | 0 43 | 4 49 | 2 2 | 0 25 | 13 20 | 11 19 | 11 49 | 13 13 | | | n.a. |
| S 18 | 8 47 | 28 4 | 4 52 | 5 5 | 0 56 | 18 23 | 0 47 | 19 18 | 2 19 | 12 54 | 1 8 | 16 12 | 2 9 | 19 24 | 0 43 | 4 49 | 2 2 | 0 25 | 13 21 | 11 21 | 11 50 | 13 10 | | | n.a. |
| M19 | 9 10 | 28 4 | 4 22 | 5 48 | 0 50 | 18 46 | 0 50 | 19 7 | 2 16 | 12 51 | 1 8 | 16 12 | 2 9 | 19 24 | 0 43 | 4 48 | 2 2 | 0 25 | 13 21 | 11 23 | 11 51 | 13 7 | | | n.a. |
| T 20 | 9 33 | 26 21 | 3 37 | 6 32 | 0 44 | 19 8 | 0 53 | 18 56 | 2 13 | 12 48 | 1 9 | 16 13 | 2 9 | 19 24 | 0 43 | 4 48 | 2 2 | 0 24 | 13 21 | 11 24 | 11 52 | 13 4 | | | n.a. |
| W21 | 9 55 | 23 0 | 2 38 | 7 14 | 0 37 | 19 30 | 0 55 | 18 45 | 2 10 | 12 44 | 1 9 | 16 13 | 2 9 | 19 24 | 0 43 | 4 47 | 2 2 | 0 24 | 13 21 | 11 24 | 11 53 | 13 1 | | | n.a. |
| T 22 | 10 17 | 18 16 | 1 29 | 7 57 | 0 30 | 19 52 | 0 58 | 18 34 | 2 7 | 12 41 | 1 9 | 16 13 | 2 9 | 19 24 | 0 43 | 4 46 | 2 2 | 0 23 | 13 21 | 11 23 | 11 54 | 12 57 | | | n.a. |
| F 23 | 10 40 | 12 28 | 0 13 | 8 39 | 0 24 | 20 13 | 1 0 | 18 23 | 2 4 | 12 38 | 1 9 | 16 13 | 2 8 | 19 24 | 0 43 | 4 46 | 2 2 | 0 23 | 13 21 | 11 23 | 11 55 | 12 54 | | | n.a. |
| S 24 | 11 2 | 5 56 | 1s 4 | 9 21 | 0 17 | 20 33 | 1 3 | 18 11 | 2 1 | 12 35 | 1 9 | 16 13 | 2 8 | 19 24 | 0 43 | 4 45 | 2 2 | 0 23 | 13 21 | 11 23 | 11 56 | 12 51 | | | n.a. |
| S 25 | 11 23 | 0s55 | 2 17 | 10 2 | 0 11 | 20 53 | 1 5 | 18 0 | 1 59 | 12 32 | 1 10 | 16 13 | 2 8 | 19 24 | 0 43 | 4 44 | 2 2 | 0 22 | 13 21 | 11 24 | 11 58 | 12 48 | | | n.a. |
| M26 | 11 45 | 7 43 | 3 21 | 10 43 | 0 4 | 21 12 | 1 7 | 17 48 | 1 56 | 12 28 | 1 10 | 16 13 | 2 8 | 19 24 | 0 43 | 4 44 | 2 2 | 0 22 | 13 21 | 11 26 | 11 59 | 12 45 | | | n.a. |
| T 27 | 12 7 | 14 4 | 4 12 | 11 23 | 0s 3 | 21 31 | 1 10 | 17 36 | 1 53 | 12 25 | 1 10 | 16 13 | 2 8 | 19 24 | 0 43 | 4 43 | 2 2 | 0 22 | 13 21 | 11 29 | 12 0 | 12 42 | | | n.a. |
| W28 | 12 28 | 19 34 | 4 46 | 12 3 | 0 9 | 21 49 | 1 12 | 17 24 | 1 51 | 12 22 | 1 10 | 16 13 | 2 8 | 19 23 | 0 43 | 4 43 | 2 2 | 0 21 | 13 21 | 11 33 | 12 1 | 12 39 | | | n.a. |
| T 29 | 12 49 | 23 54 | 5 2 | 12 43 | 0 16 | 22 6 | 1 14 | 17 12 | 1 48 | 12 19 | 1 11 | 16 13 | 2 7 | 19 23 | 0 43 | 4 42 | 2 2 | 0 21 | 13 20 | 11 37 | 12 2 | 12 36 | | | n.a. |
| F 30 | 13 10 | 26 47 | 5 1 | 13 21 | 0 22 | 22 23 | 1 17 | 17 0 | 1 45 | 12 16 | 1 11 | 16 13 | 2 7 | 19 23 | 0 43 | 4 41 | 2 1 | 0 21 | 13 20 | 11 40 | 12 3 | 12 32 | | | n.a. |
| S 31 | 13s30 | 28s 6 | 4s43 | 13s59 | 0s29 | 22s39 | 1s19 | 16s48 | 1s43 | 12n13 | 1n11 | 16s12 | 2s 7 | 19s23 | 0s43 | 4n41 | 2s 1 | 0n20 | 13s20 | 11s44 | 12s 4 | 12s29 | | | n.a. |

Julian Day Number = 1686267.5, Delta T = 03h12m50s
Ecliptic obliquity = 23°42'33, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°23'38, Lahiri = - 5°16'38 Julian Calendar 1 Oct. 97 BCE == Greg. Calendar 29 Sept. 097 BCE

The year -96 astronomical counting style corresponds to year 097 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 97 BCE
# geocentric

## NOVEMBER 97 BCE (-96) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 30 8 | 6♏31'27 | 3♑40 | 7♏11 | 6♐10 | 19♒54 | 1♍29 | 22♒23 | 7♒ 9 | 16°R26 | 3°R42 | 29°R30 | 28♒37 | 27♒49 | n.a. | S 1 |
| M 2 | 2 34 5 | 7°32'26 | 16° 5 | 8°46 | 7°24 | 20°25 | 1°38 | 22°24 | 7°10 | 16♈25 | 3♉40 | 29♒26 | 28°33 | 27°55 | n.a. | M 2 |
| T 3 | 2 38 1 | 8°33'26 | 28°12 | 10°20 | 8°38 | 20°56 | 1°46 | 22°24 | 7°10 | 16°23 | 3°39 | 29°23 | 28°30 | 28° 2 | n.a. | T 3 |
| W 4 | 2 41 58 | 9°34'27 | 10♒ 8 | 11°54 | 9°52 | 21°28 | 1°54 | 22°25 | 7°11 | 16°22 | 3°38 | 29°D23 | 28°27 | 28° 9 | n.a. | W 4 |
| T 5 | 2 45 54 | 10°35'28 | 21°56 | 13°28 | 11° 6 | 22° 0 | 2° 3 | 22°26 | 7°12 | 16°20 | 3°37 | 29°23 | 28°24 | 28°15 | n.a. | T 5 |
| F 6 | 2 49 51 | 11°36'31 | 3♓44 | 15° 2 | 12°20 | 22°32 | 2°11 | 22°26 | 7°13 | 16°19 | 3°36 | 29°R23 | 28°21 | 28°22 | n.a. | F 6 |
| S 7 | 2 53 47 | 12°37'34 | 15°35 | 16°37 | 13°34 | 23° 4 | 2°18 | 22°27 | 7°14 | 16°17 | 3°35 | 29°22 | 28°18 | 28°29 | n.a. | S 7 |
| S 8 | 2 57 44 | 13°38'37 | 27°36 | 18°11 | 14°48 | 23°37 | 2°26 | 22°28 | 7°15 | 16°16 | 3°34 | 29°18 | 28°14 | 28°35 | n.a. | S 8 |
| M 9 | 3 1 41 | 14°39'42 | 9♈50 | 19°45 | 16° 2 | 24° 9 | 2°34 | 22°30 | 7°16 | 16°14 | 3°32 | 29°12 | 28°11 | 28°42 | n.a. | M 9 |
| T 10 | 3 5 37 | 15°40'47 | 22°19 | 21°19 | 17°16 | 24°42 | 2°41 | 22°31 | 7°17 | 16°13 | 3°31 | 29° 3 | 28° 8 | 28°49 | n.a. | T 10 |
| W11 | 3 9 34 | 16°41'53 | 5♉ 6 | 22°53 | 18°30 | 25°15 | 2°49 | 22°32 | 7°18 | 16°12 | 3°30 | 28°52 | 28° 5 | 28°55 | n.a. | W11 |
| T 12 | 3 13 30 | 17°42'59 | 18°10 | 24°28 | 19°44 | 25°48 | 2°56 | 22°34 | 7°19 | 16°10 | 3°29 | 28°39 | 28° 2 | 29° 2 | n.a. | T 12 |
| F 13 | 3 17 27 | 18°44'07 | 1♊31 | 26° 2 | 20°58 | 26°21 | 3° 3 | 22°35 | 7°20 | 16° 9 | 3°28 | 28°25 | 27°59 | 29° 8 | n.a. | F 13 |
| S 14 | 3 21 23 | 19°45'15 | 15° 4 | 27°37 | 22°12 | 26°55 | 3°10 | 22°37 | 7°21 | 16° 7 | 3°27 | 28°13 | 27°55 | 29°15 | n.a. | S 14 |
| S 15 | 3 25 20 | 20°46'24 | 28°49 | 29°11 | 23°26 | 27°28 | 3°17 | 22°39 | 7°23 | 16° 6 | 3°26 | 28° 3 | 27°52 | 29°22 | n.a. | S 15 |
| M16 | 3 29 17 | 21°47'34 | 12♋40 | 0♐46 | 24°39 | 28° 2 | 3°23 | 22°41 | 7°24 | 16° 5 | 3°25 | 27°55 | 27°49 | 29°28 | n.a. | M16 |
| T 17 | 3 33 13 | 22°48'44 | 26°37 | 2°20 | 25°53 | 28°36 | 3°30 | 22°43 | 7°25 | 16° 3 | 3°24 | 27°51 | 27°46 | 29°35 | n.a. | T 17 |
| W18 | 3 37 10 | 23°49'56 | 10♌38 | 3°55 | 27° 7 | 29°10 | 3°36 | 22°45 | 7°27 | 16° 2 | 3°23 | 27°49 | 27°43 | 29°42 | n.a. | W18 |
| T 19 | 3 41 6 | 24°51'08 | 24°41 | 5°30 | 28°20 | 29°44 | 3°42 | 22°47 | 7°28 | 16° 1 | 3°22 | 27°49 | 27°39 | 29°48 | n.a. | T 19 |
| F 20 | 3 45 3 | 25°52'21 | 8♍46 | 7° 4 | 29°34 | 0♓18 | 3°48 | 22°49 | 7°30 | 16° 0 | 3°21 | 27°49 | 27°36 | 29°55 | n.a. | F 20 |
| S 21 | 3 48 59 | 26°53'35 | 22°52 | 8°39 | 0♑48 | 0°52 | 3°54 | 22°52 | 7°32 | 15°59 | 3°20 | 27°47 | 27°33 | 0♓ 2 | n.a. | S 21 |
| S 22 | 3 52 56 | 27°54'49 | 6♎58 | 10°13 | 2° 1 | 1°27 | 4° 0 | 22°54 | 7°33 | 15°57 | 3°19 | 27°43 | 27°30 | 0° 8 | n.a. | S 22 |
| M23 | 3 56 52 | 28°56'04 | 21° 2 | 11°48 | 3°15 | 2° 2 | 4° 5 | 22°57 | 7°35 | 15°56 | 3°18 | 27°37 | 27°27 | 0°15 | n.a. | M23 |
| T 24 | 4 0 49 | 29°57'20 | 5♏ 1 | 13°22 | 4°28 | 2°36 | 4°11 | 23° 0 | 7°37 | 15°55 | 3°16 | 27°27 | 27°24 | 0°22 | n.a. | T 24 |
| W25 | 4 4 46 | 0♐58'36 | 18°50 | 14°56 | 5°42 | 3°11 | 4°16 | 23° 3 | 7°38 | 15°54 | 3°15 | 27°15 | 27°20 | 0°28 | n.a. | W25 |
| T 26 | 4 8 42 | 1°59'52 | 2♐27 | 16°29 | 6°55 | 3°46 | 4°21 | 23° 5 | 7°40 | 15°53 | 3°15 | 27° 1 | 27°17 | 0°35 | n.a. | T 26 |
| F 27 | 4 12 39 | 3° 1'09 | 15°46 | 18° 2 | 8° 9 | 4°21 | 4°26 | 23° 8 | 7°42 | 15°52 | 3°14 | 26°48 | 27°14 | 0°42 | n.a. | F 27 |
| S 28 | 4 16 35 | 4° 2'26 | 28°46 | 19°34 | 9°22 | 4°56 | 4°31 | 23°12 | 7°44 | 15°51 | 3°13 | 26°36 | 27°11 | 0°48 | n.a. | S 28 |
| S 29 | 4 20 32 | 5° 3'42 | 11♑27 | 21° 6 | 10°35 | 5°32 | 4°35 | 23°15 | 7°46 | 15°50 | 3°12 | 26°26 | 27° 8 | 0°55 | n.a. | S 29 |
| M30 | 4 24 28 | 6♐ 4'59 | 23♑50 | 22♐36 | 11♑49 | 6♓ 7 | 4♍40 | 23♒18 | 7♒48 | 15♈49 | 3♉11 | 26♒19 | 27♒ 5 | 1♓ 1 | n.a. | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 13s51 | 27s51 | 4s12 | 14s37 | 0s35 | 22s55 | 1s21 | 16s36 | 1s40 | 12n10 | 1n11 | 16s12 | 2s 7 | 19s23 | 0s43 | 4n40 | 2s 1 | 0n20 | 13s20 | 11s46 | 12s 5 | 12s26 | | n.a. |
| M 2 | 14 11 | 26 11 | 3 29 | 15 14 | 0 41 | 23 9 | 1 23 | 16 23 | 1 38 | 12 8 | 1 11 | 16 12 | 2 7 | 19 23 | 0 43 | 4 40 | 2 1 | 0 20 | 13 20 | 11 48 | 12 6 | 12 23 | | n.a. |
| T 3 | 14 31 | 23 20 | 2 38 | 15 50 | 0 47 | 23 24 | 1 25 | 16 11 | 1 35 | 12 5 | 1 12 | 16 11 | 2 7 | 19 22 | 0 43 | 4 39 | 2 1 | 0 19 | 13 20 | 11 49 | 12 8 | 12 20 | | n.a. |
| W 4 | 14 51 | 19 31 | 1 41 | 16 25 | 0 53 | 23 37 | 1 27 | 15 58 | 1 33 | 12 2 | 1 12 | 16 11 | 2 6 | 19 22 | 0 42 | 4 38 | 2 1 | 0 19 | 13 20 | 11 49 | 12 9 | 12 17 | | n.a. |
| T 5 | 15 10 | 14 59 | 0 40 | 17 0 | 0 59 | 23 50 | 1 29 | 15 46 | 1 31 | 11 59 | 1 12 | 16 11 | 2 6 | 19 22 | 0 42 | 4 38 | 2 1 | 0 19 | 13 20 | 11 49 | 12 10 | 12 14 | | n.a. |
| F 6 | 15 29 | 9 54 | 0n23 | 17 34 | 1 5 | 24 2 | 1 31 | 15 33 | 1 28 | 11 57 | 1 12 | 16 10 | 2 6 | 19 22 | 0 42 | 4 37 | 2 1 | 0 18 | 13 20 | 11 49 | 12 11 | 12 10 | | n.a. |
| S 7 | 15 48 | 4 26 | 1 25 | 18 7 | 1 11 | 24 14 | 1 33 | 15 20 | 1 26 | 11 54 | 1 13 | 16 10 | 2 6 | 19 21 | 0 42 | 4 37 | 2 1 | 0 18 | 13 20 | 11 49 | 12 12 | 12 7 | | n.a. |
| S 8 | 16 7 | 1n14 | 2 24 | 18 39 | 1 16 | 24 24 | 1 35 | 15 7 | 1 24 | 11 51 | 1 13 | 16 9 | 2 6 | 19 21 | 0 42 | 4 36 | 2 1 | 0 18 | 13 20 | 11 51 | 12 13 | 12 4 | | n.a. |
| M 9 | 16 25 | 6 57 | 3 17 | 19 11 | 1 21 | 24 34 | 1 37 | 14 54 | 1 22 | 11 49 | 1 13 | 16 9 | 2 6 | 19 21 | 0 42 | 4 36 | 2 1 | 0 17 | 13 20 | 11 53 | 12 14 | 12 1 | | n.a. |
| T 10 | 16 43 | 12 31 | 4 2 | 19 41 | 1 27 | 24 43 | 1 38 | 14 41 | 1 19 | 11 46 | 1 13 | 16 8 | 2 5 | 19 20 | 0 42 | 4 35 | 2 1 | 0 17 | 13 20 | 11 56 | 12 15 | 11 58 | | n.a. |
| W11 | 17 1 | 17 41 | 4 35 | 20 11 | 1 31 | 24 52 | 1 40 | 14 28 | 1 17 | 11 44 | 1 14 | 16 8 | 2 5 | 19 20 | 0 42 | 4 35 | 2 1 | 0 17 | 13 20 | 12 0 | 12 16 | 11 55 | | n.a. |
| T 12 | 17 18 | 22 9 | 4 55 | 20 39 | 1 36 | 25 0 | 1 42 | 14 14 | 1 15 | 11 41 | 1 14 | 16 7 | 2 5 | 19 20 | 0 42 | 4 34 | 2 1 | 0 17 | 13 20 | 12 5 | 12 18 | 11 51 | | n.a. |
| F 13 | 17 36 | 25 35 | 5 0 | 21 7 | 1 41 | 25 7 | 1 43 | 14 1 | 1 13 | 11 39 | 1 14 | 16 6 | 2 5 | 19 19 | 0 42 | 4 34 | 2 1 | 0 16 | 13 19 | 12 9 | 12 19 | 11 48 | | n.a. |
| S 14 | 17 52 | 27 38 | 4 48 | 21 33 | 1 45 | 25 13 | 1 45 | 13 47 | 1 11 | 11 37 | 1 14 | 16 5 | 2 5 | 19 19 | 0 42 | 4 33 | 2 1 | 0 16 | 13 19 | 12 14 | 12 20 | 11 45 | | n.a. |
| S 15 | 18 9 | 28 1 | 4 19 | 21 58 | 1 49 | 25 18 | 1 46 | 13 34 | 1 9 | 11 35 | 1 15 | 16 5 | 2 4 | 19 19 | 0 42 | 4 33 | 2 1 | 0 16 | 13 19 | 12 17 | 12 21 | 11 42 | | n.a. |
| M16 | 18 25 | 26 39 | 3 34 | 22 23 | 1 53 | 25 23 | 1 47 | 13 20 | 1 7 | 11 32 | 1 15 | 16 4 | 2 4 | 19 18 | 0 42 | 4 32 | 2 1 | 0 16 | 13 19 | 12 20 | 12 22 | 11 39 | | n.a. |
| T 17 | 18 41 | 23 38 | 2 37 | 22 46 | 1 56 | 25 27 | 1 48 | 13 6 | 1 5 | 11 30 | 1 15 | 16 3 | 2 4 | 19 18 | 0 42 | 4 32 | 2 1 | 0 15 | 13 19 | 12 21 | 12 23 | 11 36 | | n.a. |
| W18 | 18 56 | 19 12 | 1 30 | 23 7 | 2 0 | 25 30 | 1 50 | 12 52 | 1 3 | 11 28 | 1 16 | 16 2 | 2 4 | 19 18 | 0 42 | 4 31 | 2 1 | 0 15 | 13 19 | 12 22 | 12 24 | 11 32 | | n.a. |
| T 19 | 19 12 | 13 42 | 0 17 | 23 28 | 2 2 | 25 33 | 1 51 | 12 38 | 1 1 | 11 26 | 1 16 | 16 1 | 2 4 | 19 17 | 0 42 | 4 31 | 2 1 | 0 15 | 13 19 | 12 22 | 12 25 | 11 29 | | n.a. |
| F 20 | 19 26 | 7 29 | 0s58 | 23 47 | 2 5 | 25 34 | 1 52 | 12 24 | 0 59 | 11 24 | 1 16 | 16 0 | 2 4 | 19 17 | 0 42 | 4 30 | 2 1 | 0 15 | 13 19 | 12 22 | 12 26 | 11 26 | | n.a. |
| S 21 | 19 41 | 0 54 | 2 8 | 24 5 | 2 7 | 25 35 | 1 53 | 12 10 | 0 57 | 11 22 | 1 16 | 15 59 | 2 3 | 19 16 | 0 42 | 4 30 | 2 1 | 0 15 | 13 18 | 12 23 | 12 28 | 11 23 | | n.a. |
| S 22 | 19 55 | 5s43 | 3 11 | 24 21 | 2 9 | 25 35 | 1 54 | 11 56 | 0 55 | 11 20 | 1 17 | 15 58 | 2 3 | 19 16 | 0 42 | 4 30 | 2 1 | 0 14 | 13 18 | 12 24 | 12 29 | 11 20 | | n.a. |
| M23 | 20 9 | 12 2 | 4 2 | 24 36 | 2 10 | 25 34 | 1 54 | 11 42 | 0 53 | 11 19 | 1 17 | 15 57 | 2 3 | 19 15 | 0 42 | 4 29 | 2 1 | 0 14 | 13 18 | 12 26 | 12 30 | 11 16 | | n.a. |
| T 24 | 20 22 | 17 41 | 4 38 | 24 50 | 2 11 | 25 33 | 1 55 | 11 28 | 0 51 | 11 17 | 1 17 | 15 56 | 2 3 | 19 15 | 0 42 | 4 29 | 2 1 | 0 14 | 13 18 | 12 30 | 12 31 | 11 13 | | n.a. |
| W25 | 20 35 | 22 22 | 4 57 | 25 2 | 2 12 | 25 31 | 1 56 | 11 13 | 0 50 | 11 15 | 1 17 | 15 55 | 2 3 | 19 14 | 0 42 | 4 28 | 2 1 | 0 14 | 13 18 | 12 34 | 12 32 | 11 10 | | n.a. |
| T 26 | 20 48 | 25 45 | 4 59 | 25 12 | 2 12 | 25 28 | 1 56 | 10 59 | 0 48 | 11 14 | 1 18 | 15 54 | 2 3 | 19 14 | 0 42 | 4 28 | 2 0 | 0 14 | 13 18 | 12 39 | 12 33 | 11 7 | | n.a. |
| F 27 | 21 0 | 27 39 | 4 44 | 25 20 | 2 11 | 25 24 | 1 57 | 10 44 | 0 46 | 11 12 | 1 18 | 15 53 | 2 2 | 19 13 | 0 42 | 4 28 | 2 0 | 0 13 | 13 17 | 12 43 | 12 34 | 11 4 | | n.a. |
| S 28 | 21 12 | 27 57 | 4 15 | 25 27 | 2 10 | 25 19 | 1 57 | 10 30 | 0 44 | 11 11 | 1 18 | 15 52 | 2 2 | 19 13 | 0 42 | 4 27 | 2 0 | 0 13 | 13 17 | 12 47 | 12 35 | 11 0 | | n.a. |
| S 29 | 21 23 | 26 45 | 3 33 | 25 32 | 2 8 | 25 14 | 1 57 | 10 15 | 0 43 | 11 9 | 1 19 | 15 50 | 2 2 | 19 12 | 0 42 | 4 27 | 2 0 | 0 13 | 13 17 | 12 51 | 12 36 | 10 57 | | n.a. |
| M30 | 21s34 | 24s15 | 2s43 | 25s35 | 2s 6 | 25s 8 | 1s58 | 10s 0 | 0s41 | 11n 8 | 1n19 | 15s49 | 2s 2 | 19s12 | 0s42 | 4n27 | 2s 0 | 0n13 | 13s17 | 12s53 | 12s37 | 10s54 | | n.a. |

Julian Day Number = 1686298.5, Delta T = 03h12m49s
Ecliptic obliquity = 23°42'32, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°23'34, Lahiri = - 5°16'34 Julian Calendar 1 Nov. 97 BCE == Greg. Calendar 30 Oct. 097 BCE

The year -96 astronomical counting style corresponds to year 097 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 97 BCE
# geocentric

## DECEMBER 97 BCE (-96) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 4 28 25 | 7♐ 6'15 | 5♒57 | 24♐ 5 | 13♑ 2 | 6♓43 | 4♍44 | 23♒22 | 7♒50 | 15°R48 | 3°R10 | 26°R15 | 27♒ 1 | 1♓ 8 | n.a. | T 1 |
| W 2 | 4 32 21 | 8° 7'32 | 17°53 | 25°32 | 14°15 | 7°18 | 4°48 | 23°25 | 7°52 | 15♈47 | 3♉ 9 | 26♒14 | 26°58 | 1°15 | n.a. | W 2 |
| T 3 | 4 36 18 | 9° 8'47 | 29°42 | 26°58 | 15°28 | 7°54 | 4°52 | 23°29 | 7°54 | 15°46 | 3° 8 | 26°D13 | 26°55 | 1°21 | n.a. | T 3 |
| F 4 | 4 40 15 | 10°10'03 | 11♓29 | 28°21 | 16°41 | 8°30 | 4°56 | 23°32 | 7°56 | 15°45 | 3° 7 | 26°R14 | 26°52 | 1°28 | n.a. | F 4 |
| S 5 | 4 44 11 | 11°11'18 | 23°21 | 29°42 | 17°54 | 9° 6 | 4°59 | 23°36 | 7°59 | 15°44 | 3° 6 | 26°13 | 26°49 | 1°35 | n.a. | S 5 |
| S 6 | 4 48 8 | 12°12'33 | 5♈22 | 1♑ 0 | 19° 7 | 9°41 | 5° 2 | 23°40 | 8° 1 | 15°44 | 3° 5 | 26°10 | 26°45 | 1°41 | n.a. | S 6 |
| M 7 | 4 52 4 | 13°13'47 | 17°38 | 2°13 | 20°20 | 10°17 | 5° 6 | 23°44 | 8° 3 | 15°43 | 3° 4 | 26° 5 | 26°42 | 1°48 | n.a. | M 7 |
| T 8 | 4 56 1 | 14°15'00 | 0♉13 | 3°23 | 21°33 | 10°54 | 5° 9 | 23°48 | 8° 5 | 15°42 | 3° 4 | 25°58 | 26°39 | 1°55 | n.a. | T 8 |
| W 9 | 4 59 57 | 15°16'14 | 13°10 | 4°27 | 22°45 | 11°30 | 5°11 | 23°52 | 8° 8 | 15°42 | 3° 3 | 25°48 | 26°36 | 2° 1 | n.a. | W 9 |
| T 10 | 5 3 54 | 16°17'27 | 26°29 | 5°25 | 23°58 | 12° 6 | 5°14 | 23°57 | 8°10 | 15°41 | 3° 2 | 25°36 | 26°33 | 2° 8 | n.a. | T 10 |
| F 11 | 5 7 51 | 17°18'39 | 10♊ 9 | 6°17 | 25°11 | 12°42 | 5°16 | 24° 1 | 8°13 | 15°40 | 3° 1 | 25°24 | 26°30 | 2°15 | n.a. | F 11 |
| S 12 | 5 11 47 | 18°19'51 | 24° 7 | 7° 1 | 26°23 | 13°19 | 5°19 | 24° 5 | 8°15 | 15°40 | 3° 0 | 25°13 | 26°26 | 2°21 | n.a. | S 12 |
| S 13 | 5 15 44 | 19°21'03 | 8♋19 | 7°36 | 27°36 | 13°55 | 5°21 | 24°10 | 8°18 | 15°39 | 3° 0 | 25° 4 | 26°23 | 2°28 | n.a. | S 13 |
| M14 | 5 19 40 | 20°22'14 | 22°39 | 8° 2 | 28°48 | 14°32 | 5°23 | 24°14 | 8°20 | 15°39 | 2°59 | 24°57 | 26°20 | 2°35 | n.a. | M14 |
| T 15 | 5 23 37 | 21°23'25 | 7♌ 1 | 8°18 | 0♒ 1 | 15° 8 | 5°24 | 24°19 | 8°23 | 15°38 | 2°58 | 24°53 | 26°17 | 2°41 | n.a. | T 15 |
| W16 | 5 27 33 | 22°24'36 | 21°21 | 8°R23 | 1°13 | 15°45 | 5°26 | 24°24 | 8°25 | 15°38 | 2°58 | 24°D52 | 26°14 | 2°48 | n.a. | W16 |
| T 17 | 5 31 30 | 23°25'46 | 5♍36 | 8°17 | 2°25 | 16°21 | 5°27 | 24°29 | 8°28 | 15°37 | 2°57 | 24°52 | 26°11 | 2°54 | n.a. | T 17 |
| F 18 | 5 35 26 | 24°26'56 | 19°44 | 7°59 | 3°37 | 16°58 | 5°28 | 24°33 | 8°31 | 15°37 | 2°56 | 24°R53 | 26° 7 | 3° 1 | n.a. | F 18 |
| S 19 | 5 39 23 | 25°28'05 | 3♎44 | 7°29 | 4°49 | 17°35 | 5°29 | 24°38 | 8°33 | 15°36 | 2°56 | 24°53 | 26° 4 | 3° 8 | n.a. | S 19 |
| S 20 | 5 43 20 | 26°29'14 | 17°36 | 6°48 | 6° 1 | 18°12 | 5°30 | 24°43 | 8°36 | 15°36 | 2°55 | 24°51 | 26° 1 | 3°14 | n.a. | S 20 |
| M21 | 5 47 16 | 27°30'23 | 1♏19 | 5°57 | 7°13 | 18°49 | 5°31 | 24°49 | 8°39 | 15°36 | 2°54 | 24°46 | 25°58 | 3°21 | n.a. | M21 |
| T 22 | 5 51 13 | 28°31'31 | 14°52 | 4°56 | 8°25 | 19°26 | 5°31 | 24°54 | 8°42 | 15°36 | 2°54 | 24°39 | 25°55 | 3°28 | n.a. | T 22 |
| W23 | 5 55 9 | 29°32'38 | 28°15 | 3°49 | 9°36 | 20° 3 | 5°R31 | 24°59 | 8°45 | 15°35 | 2°53 | 24°30 | 25°51 | 3°34 | n.a. | W23 |
| T 24 | 5 59 6 | 0♑33'45 | 11♐25 | 2°36 | 10°48 | 20°40 | 5°31 | 25° 4 | 8°47 | 15°35 | 2°53 | 24°20 | 25°48 | 3°41 | n.a. | T 24 |
| F 25 | 6 3 2 | 1°34'51 | 24°23 | 1°20 | 11°59 | 21°17 | 5°31 | 25°10 | 8°50 | 15°35 | 2°52 | 24°10 | 25°45 | 3°48 | n.a. | F 25 |
| S 26 | 6 6 59 | 2°35'57 | 7♑ 6 | 0° 3 | 13°11 | 21°54 | 5°31 | 25°15 | 8°53 | 15°35 | 2°52 | 24° 1 | 25°42 | 3°54 | n.a. | S 26 |
| S 27 | 6 10 56 | 3°37'01 | 19°34 | 28♐48 | 14°22 | 22°31 | 5°30 | 25°21 | 8°56 | 15°35 | 2°51 | 23°54 | 25°39 | 4° 1 | n.a. | S 27 |
| M28 | 6 14 52 | 4°38'04 | 1♒49 | 27°37 | 15°33 | 23° 8 | 5°29 | 25°27 | 8°59 | 15°35 | 2°51 | 23°49 | 25°36 | 4° 8 | n.a. | M28 |
| T 29 | 6 18 49 | 5°39'06 | 13°52 | 26°31 | 16°44 | 23°46 | 5°28 | 25°32 | 9° 2 | 15°D35 | 2°50 | 23°46 | 25°32 | 4°14 | n.a. | T 29 |
| W30 | 6 22 45 | 6°40'07 | 25°46 | 25°32 | 17°55 | 24°23 | 5°27 | 25°38 | 9° 5 | 15°35 | 2°50 | 23°D45 | 25°29 | 4°21 | n.a. | W30 |
| T 31 | 6 26 42 | 7♑41'06 | 7♓34 | 24♐41 | 19♒ 6 | 25♓ 0 | 5♍26 | 25♒44 | 9♒ 8 | 15♈35 | 2♉49 | 23♒46 | 25♒26 | 4♓28 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 21 s44 | 20 s42 | 1 s45 | 25 s37 | 2 s 3 | 25 s 1 | 1 s58 | 9 s45 | 0 s39 | 11 n 7 | 1 n19 | 15 s48 | 2 s 2 | 19 s11 | 0 s42 | 4 n26 | 2 s 0 | 0 n13 | 13 s17 | 12 s54 | 12 s39 | 10 s51 | | | n.a. |
| W 2 | 21 55 | 16 21 | 0 44 | 25 37 | 1 59 | 24 53 | 1 58 | 9 30 | 0 38 | 11 5 | 1 19 | 15 47 | 2 2 | 19 11 | 0 42 | 4 26 | 2 0 | 0 13 | 13 17 | 12 55 | 12 40 | 10 48 | | | n.a. |
| T 3 | 22 4 | 11 25 | 0 n18 | 25 34 | 1 54 | 24 45 | 1 58 | 9 15 | 0 36 | 11 4 | 1 20 | 15 45 | 2 2 | 19 10 | 0 42 | 4 26 | 2 0 | 0 13 | 13 16 | 12 55 | 12 41 | 10 44 | | | n.a. |
| F 4 | 22 13 | 6 6 | 1 20 | 25 31 | 1 49 | 24 36 | 1 58 | 9 0 | 0 34 | 11 3 | 1 20 | 15 44 | 2 1 | 19 9 | 0 42 | 4 25 | 2 0 | 0 13 | 13 16 | 12 55 | 12 42 | 10 41 | | | n.a. |
| S 5 | 22 22 | 0 33 | 2 19 | 25 25 | 1 42 | 24 26 | 1 57 | 8 45 | 0 33 | 11 2 | 1 20 | 15 42 | 2 1 | 19 9 | 0 42 | 4 25 | 2 0 | 0 12 | 13 16 | 12 55 | 12 43 | 10 38 | | | n.a. |
| S 6 | 22 31 | 5 n 5 | 3 12 | 25 17 | 1 35 | 24 16 | 1 57 | 8 30 | 0 31 | 11 1 | 1 21 | 15 41 | 2 1 | 19 8 | 0 42 | 4 25 | 2 0 | 0 12 | 13 16 | 12 56 | 12 44 | 10 35 | | | n.a. |
| M 7 | 22 39 | 10 39 | 3 58 | 25 8 | 1 27 | 24 4 | 1 57 | 8 15 | 0 30 | 11 0 | 1 21 | 15 40 | 2 1 | 19 8 | 0 42 | 4 25 | 2 0 | 0 12 | 13 16 | 12 58 | 12 45 | 10 32 | | | n.a. |
| T 8 | 22 46 | 15 55 | 4 33 | 24 57 | 1 17 | 23 52 | 1 56 | 8 0 | 0 28 | 10 59 | 1 21 | 15 38 | 2 1 | 19 7 | 0 41 | 4 25 | 2 0 | 0 12 | 13 15 | 13 0 | 12 46 | 10 28 | | | n.a. |
| W 9 | 22 53 | 20 39 | 4 55 | 24 45 | 1 7 | 23 40 | 1 56 | 7 45 | 0 27 | 10 59 | 1 22 | 15 36 | 2 1 | 19 6 | 0 41 | 4 24 | 2 0 | 0 12 | 13 15 | 13 4 | 12 47 | 10 25 | | | n.a. |
| T 10 | 23 0 | 24 29 | 5 2 | 24 31 | 0 55 | 23 27 | 1 55 | 7 29 | 0 25 | 10 58 | 1 22 | 15 35 | 2 1 | 19 6 | 0 41 | 4 24 | 2 0 | 0 12 | 13 15 | 13 8 | 12 48 | 10 22 | | | n.a. |
| F 11 | 23 6 | 27 2 | 4 52 | 24 16 | 0 42 | 23 13 | 1 54 | 7 14 | 0 24 | 10 57 | 1 22 | 15 33 | 2 0 | 19 5 | 0 41 | 4 24 | 2 0 | 0 12 | 13 15 | 13 12 | 12 49 | 10 19 | | | n.a. |
| S 12 | 23 11 | 27 59 | 4 25 | 24 0 | 0 29 | 22 58 | 1 53 | 6 58 | 0 22 | 10 57 | 1 22 | 15 32 | 2 0 | 19 4 | 0 41 | 4 24 | 2 0 | 0 12 | 13 14 | 13 16 | 12 51 | 10 15 | | | n.a. |
| S 13 | 23 17 | 27 7 | 3 41 | 23 43 | 0 14 | 22 43 | 1 52 | 6 43 | 0 21 | 10 56 | 1 23 | 15 30 | 2 0 | 19 4 | 0 41 | 4 24 | 1 59 | 0 12 | 13 14 | 13 19 | 12 52 | 10 12 | | | n.a. |
| M14 | 23 21 | 24 27 | 2 43 | 23 25 | 0 n 3 | 22 27 | 1 51 | 6 28 | 0 20 | 10 56 | 1 23 | 15 28 | 2 0 | 19 3 | 0 41 | 4 23 | 1 59 | 0 12 | 13 14 | 13 21 | 12 53 | 10 9 | | | n.a. |
| T 15 | 23 26 | 20 14 | 1 34 | 23 7 | 0 20 | 22 10 | 1 50 | 6 12 | 0 18 | 10 55 | 1 23 | 15 27 | 2 0 | 19 2 | 0 41 | 4 23 | 1 59 | 0 12 | 13 14 | 13 22 | 12 54 | 10 6 | | | n.a. |
| W16 | 23 29 | 14 50 | 0 19 | 22 49 | 0 38 | 21 53 | 1 49 | 5 56 | 0 17 | 10 55 | 1 24 | 15 25 | 2 0 | 19 2 | 0 41 | 4 23 | 1 59 | 0 12 | 13 13 | 13 23 | 12 55 | 10 3 | | | n.a. |
| T 17 | 23 33 | 8 41 | 0 s57 | 22 31 | 0 56 | 21 35 | 1 48 | 5 41 | 0 16 | 10 55 | 1 24 | 15 23 | 2 0 | 19 1 | 0 41 | 4 23 | 1 59 | 0 12 | 13 13 | 13 23 | 12 56 | 9 59 | | | n.a. |
| F 18 | 23 35 | 2 8 | 2 9 | 22 13 | 1 15 | 21 17 | 1 46 | 5 25 | 0 14 | 10 55 | 1 24 | 15 21 | 1 59 | 19 0 | 0 41 | 4 23 | 1 59 | 0 12 | 13 13 | 13 22 | 12 57 | 9 56 | | | n.a. |
| S 19 | 23 38 | 4 s26 | 3 12 | 21 56 | 1 34 | 20 58 | 1 45 | 5 9 | 0 13 | 10 55 | 1 25 | 15 20 | 1 59 | 18 59 | 0 41 | 4 23 | 1 59 | 0 12 | 13 13 | 13 22 | 12 58 | 9 53 | | | n.a. |
| S 20 | 23 40 | 10 44 | 4 4 | 21 39 | 1 53 | 20 38 | 1 43 | 4 54 | 0 12 | 10 55 | 1 25 | 15 18 | 1 59 | 18 59 | 0 41 | 4 23 | 1 59 | 0 12 | 13 12 | 13 23 | 12 59 | 9 50 | | | n.a. |
| M21 | 23 41 | 16 26 | 4 40 | 21 23 | 2 12 | 20 18 | 1 41 | 4 38 | 0 10 | 10 55 | 1 25 | 15 16 | 1 59 | 18 58 | 0 41 | 4 23 | 1 59 | 0 12 | 13 12 | 13 25 | 13 0 | 9 46 | | | n.a. |
| T 22 | 23 42 | 21 16 | 5 1 | 21 8 | 2 29 | 19 58 | 1 39 | 4 22 | 0 9 | 10 55 | 1 25 | 15 14 | 1 59 | 18 57 | 0 41 | 4 23 | 1 59 | 0 12 | 13 12 | 13 27 | 13 1 | 9 43 | | | n.a. |
| W23 | 23 42 | 24 56 | 5 5 | 20 54 | 2 45 | 19 37 | 1 38 | 4 6 | 0 8 | 10 55 | 1 26 | 15 12 | 1 59 | 18 56 | 0 41 | 4 23 | 1 59 | 0 12 | 13 12 | 13 30 | 13 3 | 9 40 | | | n.a. |
| T 24 | 23 42 | 27 13 | 4 52 | 20 42 | 2 59 | 19 15 | 1 36 | 3 51 | 0 7 | 10 55 | 1 26 | 15 10 | 1 59 | 18 56 | 0 41 | 4 23 | 1 59 | 0 12 | 13 11 | 13 33 | 13 4 | 9 37 | | | n.a. |
| F 25 | 23 42 | 27 59 | 4 24 | 20 31 | 3 11 | 18 53 | 1 33 | 3 35 | 0 5 | 10 56 | 1 26 | 15 8 | 1 59 | 18 55 | 0 41 | 4 23 | 1 59 | 0 12 | 13 11 | 13 37 | 13 5 | 9 33 | | | n.a. |
| S 26 | 23 41 | 27 15 | 3 44 | 20 22 | 3 21 | 18 30 | 1 31 | 3 19 | 0 4 | 10 56 | 1 27 | 15 6 | 1 58 | 18 54 | 0 41 | 4 23 | 1 59 | 0 13 | 13 11 | 13 40 | 13 6 | 9 30 | | | n.a. |
| S 27 | 23 40 | 25 7 | 2 54 | 20 14 | 3 28 | 18 7 | 1 29 | 3 3 | 0 3 | 10 57 | 1 27 | 15 4 | 1 58 | 18 53 | 0 41 | 4 23 | 1 59 | 0 13 | 13 11 | 13 42 | 13 7 | 9 27 | | | n.a. |
| M28 | 23 38 | 21 51 | 1 56 | 20 9 | 3 33 | 17 44 | 1 26 | 2 47 | 0 2 | 10 57 | 1 27 | 15 2 | 1 58 | 18 52 | 0 41 | 4 23 | 1 58 | 0 13 | 13 10 | 13 44 | 13 8 | 9 24 | | | n.a. |
| T 29 | 23 35 | 17 42 | 0 53 | 20 5 | 3 35 | 17 20 | 1 24 | 2 31 | 0 1 | 10 58 | 1 28 | 15 0 | 1 58 | 18 51 | 0 41 | 4 23 | 1 58 | 0 13 | 13 10 | 13 45 | 13 9 | 9 20 | | | n.a. |
| W30 | 23 32 | 12 54 | 0 n11 | 20 3 | 3 35 | 16 55 | 1 21 | 2 15 | 0 n 0 | 10 59 | 1 28 | 14 58 | 1 58 | 18 51 | 0 41 | 4 23 | 1 58 | 0 13 | 13 10 | 13 45 | 13 10 | 9 17 | | | n.a. |
| T 31 | 23 s29 | 7 s41 | 1 n14 | 20 s 3 | 3 n33 | 16 s30 | 1 s19 | 1 s59 | 0 n 1 | 10 n59 | 1 n28 | 14 s56 | 1 s58 | 18 s50 | 0 s41 | 4 n23 | 1 s58 | 0 n13 | 13 s 9 | 13 s45 | 13 s11 | 9 s14 | | | n.a. |

Julian Day Number = 1686328.5, Delta T = 03h12m49s
Ecliptic obliquity = 23°42'31, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°23'30, Lahiri = - 5°16'30 Julian Calendar 1 Dec. 97 BCE == Greg. Calendar 29 Nov. 097 BCE

The year -96 astronomical counting style corresponds to year 097 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 96 BCE
# geocentric

## JANUARY 96 BCE (-95) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 6 30 38 | 8♉42'04 | 19♓21 | 23°R57 | 20♒17 | 25♓38 | 5°R24 | 25♒50 | 9♒11 | 15♈35 | 2°R49 | 23♒48 | 25♒23 | 4♓34 | n.a. | F 1 |
| S 2 | 6 34 35 | 9°43'00 | 1♈12 | 23♐23 | 21°27 | 26°15 | 5♍22 | 25°56 | 9°14 | 15°35 | 2♉49 | 23°49 | 25°20 | 4°41 | n.a. | S 2 |
| S 3 | 6 38 31 | 10°43'55 | 13°12 | 22°57 | 22°38 | 26°53 | 5°20 | 26° 2 | 9°18 | 15°35 | 2°48 | 23°R49 | 25°17 | 4°47 | n.a. | S 3 |
| M 4 | 6 42 28 | 11°44'49 | 25°26 | 22°40 | 23°48 | 27°30 | 5°18 | 26° 8 | 9°21 | 15°35 | 2°48 | 23°48 | 25°13 | 4°54 | n.a. | M 4 |
| T 5 | 6 46 25 | 12°45'41 | 8♉ 0 | 22°31 | 24°58 | 28° 8 | 5°16 | 26°14 | 9°24 | 15°36 | 2°48 | 23°45 | 25°10 | 5° 1 | n.a. | T 5 |
| W 6 | 6 50 21 | 13°46'31 | 20°56 | 22°D29 | 26° 8 | 28°45 | 5°13 | 26°20 | 9°27 | 15°36 | 2°47 | 23°41 | 25° 7 | 5° 7 | n.a. | W 6 |
| T 7 | 6 54 18 | 14°47'20 | 4♊19 | 22°35 | 27°18 | 29°23 | 5°11 | 26°26 | 9°30 | 15°36 | 2°47 | 23°35 | 25° 4 | 5°14 | n.a. | T 7 |
| F 8 | 6 58 14 | 15°48'08 | 18° 7 | 22°48 | 28°28 | 0♈ 0 | 5° 8 | 26°33 | 9°33 | 15°36 | 2°47 | 23°28 | 25° 1 | 5°21 | n.a. | F 8 |
| S 9 | 7 2 11 | 16°48'54 | 2♋19 | 23° 8 | 29°38 | 0°38 | 5° 5 | 26°39 | 9°37 | 15°37 | 2°47 | 23°22 | 24°57 | 5°27 | n.a. | S 9 |
| S 10 | 7 6 7 | 17°49'38 | 16°50 | 23°33 | 0♓47 | 1°16 | 5° 2 | 26°45 | 9°40 | 15°37 | 2°46 | 23°17 | 24°54 | 5°34 | n.a. | S 10 |
| M11 | 7 10 4 | 18°50'21 | 1♌34 | 24° 4 | 1°56 | 1°53 | 4°58 | 26°52 | 9°43 | 15°38 | 2°46 | 23°14 | 24°51 | 5°41 | n.a. | M11 |
| T 12 | 7 14 0 | 19°51'02 | 16°24 | 24°39 | 3° 6 | 2°31 | 4°55 | 26°58 | 9°46 | 15°38 | 2°46 | 23°D12 | 24°48 | 5°47 | n.a. | T 12 |
| W13 | 7 17 57 | 20°51'43 | 1♍11 | 25°19 | 4°15 | 3° 9 | 4°51 | 27° 5 | 9°50 | 15°39 | 2°46 | 23°12 | 24°45 | 5°54 | n.a. | W13 |
| T 14 | 7 21 54 | 21°52'21 | 15°49 | 26° 4 | 5°23 | 3°46 | 4°47 | 27°11 | 9°53 | 15°39 | 2°46 | 23°13 | 24°42 | 6° 1 | n.a. | T 14 |
| F 15 | 7 25 50 | 22°52'59 | 0♎14 | 26°52 | 6°32 | 4°24 | 4°43 | 27°18 | 9°56 | 15°40 | 2°46 | 23°15 | 24°38 | 6° 7 | n.a. | F 15 |
| S 16 | 7 29 47 | 23°53'35 | 14°23 | 27°43 | 7°40 | 5° 2 | 4°39 | 27°25 | 10° 0 | 15°40 | 2°46 | 23°16 | 24°35 | 6°14 | n.a. | S 16 |
| S 17 | 7 33 43 | 24°54'09 | 28°15 | 28°38 | 8°49 | 5°40 | 4°34 | 27°32 | 10° 3 | 15°41 | 2°46 | 23°R17 | 24°32 | 6°21 | n.a. | S 17 |
| M18 | 7 37 40 | 25°54'43 | 11♏50 | 29°36 | 9°57 | 6°18 | 4°30 | 27°38 | 10° 6 | 15°42 | 2°46 | 23°16 | 24°29 | 6°27 | n.a. | M18 |
| T 19 | 7 41 36 | 26°55'15 | 25° 8 | 0♉37 | 11° 5 | 6°55 | 4°25 | 27°45 | 10°10 | 15°42 | 2°D46 | 23°13 | 24°26 | 6°34 | n.a. | T 19 |
| W20 | 7 45 33 | 27°55'46 | 8♐11 | 1°40 | 12°12 | 7°33 | 4°20 | 27°52 | 10°13 | 15°43 | 2°46 | 23°10 | 24°23 | 6°41 | n.a. | W20 |
| T 21 | 7 49 29 | 28°56'15 | 21° 0 | 2°45 | 13°20 | 8°11 | 4°15 | 27°59 | 10°17 | 15°44 | 2°46 | 23° 6 | 24°19 | 6°47 | n.a. | T 21 |
| F 22 | 7 53 26 | 29°56'43 | 3♉36 | 3°53 | 14°27 | 8°49 | 4°10 | 28° 6 | 10°20 | 15°45 | 2°46 | 23° 2 | 24°16 | 6°54 | n.a. | F 22 |
| S 23 | 7 57 23 | 0♒57'09 | 15°59 | 5° 3 | 15°34 | 9°27 | 4° 4 | 28°13 | 10°23 | 15°45 | 2°46 | 22°58 | 24°13 | 7° 0 | n.a. | S 23 |
| S 24 | 8 1 19 | 1°57'33 | 28°12 | 6°15 | 16°41 | 10° 5 | 3°59 | 28°20 | 10°27 | 15°46 | 2°46 | 22°56 | 24°10 | 7° 7 | n.a. | S 24 |
| M25 | 8 5 16 | 2°57'56 | 10♒16 | 7°28 | 17°48 | 10°43 | 3°53 | 28°27 | 10°30 | 15°47 | 2°46 | 22°54 | 24° 7 | 7°14 | n.a. | M25 |
| T 26 | 8 9 12 | 3°58'17 | 22°12 | 8°44 | 18°54 | 11°21 | 3°47 | 28°34 | 10°34 | 15°48 | 2°46 | 22°D53 | 24° 3 | 7°20 | n.a. | T 26 |
| W27 | 8 13 9 | 4°58'35 | 4♓ 2 | 10° 0 | 20° 0 | 11°59 | 3°41 | 28°41 | 10°37 | 15°49 | 2°46 | 22°54 | 24° 0 | 7°27 | n.a. | W27 |
| T 28 | 8 17 5 | 5°58'52 | 15°50 | 11°19 | 21° 6 | 12°37 | 3°35 | 28°48 | 10°41 | 15°50 | 2°46 | 22°55 | 23°57 | 7°34 | n.a. | T 28 |
| F 29 | 8 21 2 | 6°59'06 | 27°37 | 12°39 | 22°12 | 13°14 | 3°29 | 28°55 | 10°44 | 15°51 | 2°47 | 22°56 | 23°54 | 7°40 | n.a. | F 29 |
| S 30 | 8 24 58 | 7°59'19 | 9♈28 | 14° 0 | 23°17 | 13°52 | 3°23 | 29° 3 | 10°47 | 15°52 | 2°47 | 22°58 | 23°51 | 7°47 | n.a. | S 30 |
| S 31 | 8 28 55 | 8♒59'29 | 21♈28 | 15♉23 | 24♓22 | 14♈30 | 3♍16 | 29♒10 | 10♒51 | 15♈53 | 2♉47 | 22♒59 | 23♒48 | 7♓54 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 23s25 | 2s12 | 2n14 | 20s 5 | 3n30 | 16s 5 | 1s16 | 1s43 | 0n 2 | 11n 0 | 1n29 | 14s54 | 1s58 | 18s49 | 0s41 | 4n23 | 1s58 | 0n13 | 13s 9 | 13s44 | 13s12 | 9s11 | | n.a. |
| S 2 | 23 21 | 3n22 | 3 9 | 20 8 | 3 24 | 15 40 | 1 13 | 1 27 | 0 4 | 11 1 | 1 29 | 14 52 | 1 58 | 18 48 | 0 41 | 4 23 | 1 58 | 0 13 | 13 9 | 13 44 | 13 13 | 9 7 | | n.a. |
| S 3 | 23 16 | 8 53 | 3 56 | 20 14 | 3 18 | 15 14 | 1 10 | 1 11 | 0 5 | 11 2 | 1 29 | 14 50 | 1 58 | 18 47 | 0 41 | 4 23 | 1 58 | 0 14 | 13 9 | 13 44 | 13 14 | 9 4 | | n.a. |
| M 4 | 23 11 | 14 11 | 4 34 | 20 20 | 3 10 | 14 47 | 1 7 | 0 55 | 0 6 | 11 3 | 1 29 | 14 47 | 1 58 | 18 46 | 0 41 | 4 23 | 1 58 | 0 14 | 13 8 | 13 44 | 13 16 | 9 1 | | n.a. |
| T 5 | 23 5 | 19 2 | 4 59 | 20 29 | 3 1 | 14 21 | 1 4 | 0 39 | 0 7 | 11 4 | 1 30 | 14 45 | 1 58 | 18 46 | 0 41 | 4 24 | 1 58 | 0 14 | 13 8 | 13 45 | 13 17 | 8 58 | | n.a. |
| W 6 | 22 59 | 23 10 | 5 10 | 20 38 | 2 52 | 13 54 | 1 1 | 0 23 | 0 8 | 11 6 | 1 30 | 14 43 | 1 57 | 18 45 | 0 41 | 4 24 | 1 58 | 0 14 | 13 8 | 13 47 | 13 18 | 8 54 | | n.a. |
| T 7 | 22 53 | 26 14 | 5 5 | 20 48 | 2 42 | 13 26 | 0 57 | 0 7 | 0 9 | 11 7 | 1 30 | 14 41 | 1 57 | 18 44 | 0 41 | 4 24 | 1 58 | 0 14 | 13 7 | 13 49 | 13 19 | 8 51 | | n.a. |
| F 8 | 22 46 | 27 52 | 4 43 | 20 59 | 2 32 | 12 59 | 0 54 | 0n 9 | 0 10 | 11 8 | 1 31 | 14 38 | 1 57 | 18 43 | 0 41 | 4 24 | 1 58 | 0 14 | 13 7 | 13 51 | 13 20 | 8 48 | | n.a. |
| S 9 | 22 38 | 27 43 | 4 2 | 21 11 | 2 21 | 12 31 | 0 50 | 0 25 | 0 11 | 11 10 | 1 31 | 14 36 | 1 57 | 18 42 | 0 41 | 4 24 | 1 58 | 0 15 | 13 7 | 13 53 | 13 21 | 8 44 | | n.a. |
| S 10 | 22 30 | 25 42 | 3 5 | 21 23 | 2 10 | 12 3 | 0 47 | 0 41 | 0 12 | 11 11 | 1 31 | 14 34 | 1 57 | 18 41 | 0 41 | 4 25 | 1 58 | 0 15 | 13 6 | 13 54 | 13 22 | 8 41 | | n.a. |
| M11 | 22 22 | 21 55 | 1 55 | 21 35 | 1 59 | 11 34 | 0 43 | 0 57 | 0 13 | 11 13 | 1 31 | 14 32 | 1 57 | 18 40 | 0 41 | 4 25 | 1 58 | 0 15 | 13 6 | 13 56 | 13 23 | 8 38 | | n.a. |
| T 12 | 22 13 | 16 41 | 0 37 | 21 48 | 1 49 | 11 6 | 0 39 | 1 13 | 0 14 | 11 14 | 1 32 | 14 29 | 1 57 | 18 39 | 0 41 | 4 25 | 1 57 | 0 15 | 13 6 | 13 56 | 13 24 | 8 35 | | n.a. |
| W13 | 22 4 | 10 30 | 0s44 | 22 0 | 1 38 | 10 37 | 0 35 | 1 29 | 0 14 | 11 16 | 1 32 | 14 27 | 1 57 | 18 38 | 0 41 | 4 25 | 1 57 | 0 16 | 13 6 | 13 56 | 13 25 | 8 31 | | n.a. |
| T 14 | 21 55 | 3 48 | 2 1 | 22 12 | 1 27 | 10 8 | 0 31 | 1 45 | 0 15 | 11 18 | 1 32 | 14 25 | 1 57 | 18 38 | 0 41 | 4 26 | 1 57 | 0 16 | 13 5 | 13 56 | 13 26 | 8 28 | | n.a. |
| F 15 | 21 45 | 2s59 | 3 9 | 22 24 | 1 16 | 9 38 | 0 27 | 2 1 | 0 16 | 11 19 | 1 32 | 14 22 | 1 57 | 18 37 | 0 41 | 4 26 | 1 57 | 0 16 | 13 5 | 13 55 | 13 27 | 8 25 | | n.a. |
| S 16 | 21 34 | 9 29 | 4 5 | 22 36 | 1 5 | 9 9 | 0 23 | 2 17 | 0 17 | 11 21 | 1 33 | 14 20 | 1 57 | 18 36 | 0 41 | 4 26 | 1 57 | 0 16 | 13 5 | 13 55 | 13 28 | 8 22 | | n.a. |
| S 17 | 21 23 | 15 23 | 4 45 | 22 47 | 0 55 | 8 39 | 0 19 | 2 33 | 0 18 | 11 23 | 1 33 | 14 17 | 1 57 | 18 35 | 0 41 | 4 26 | 1 57 | 0 17 | 13 4 | 13 55 | 13 29 | 8 18 | | n.a. |
| M18 | 21 12 | 20 25 | 5 8 | 22 58 | 0 44 | 8 9 | 0 15 | 2 49 | 0 19 | 11 25 | 1 33 | 14 15 | 1 57 | 18 34 | 0 41 | 4 27 | 1 57 | 0 17 | 13 4 | 13 55 | 13 31 | 8 15 | | n.a. |
| T 19 | 21 1 | 24 20 | 5 14 | 23 8 | 0 34 | 7 39 | 0 10 | 3 5 | 0 20 | 11 27 | 1 34 | 14 12 | 1 57 | 18 33 | 0 41 | 4 27 | 1 57 | 0 17 | 13 4 | 13 56 | 13 32 | 8 12 | | n.a. |
| W20 | 20 49 | 26 54 | 5 3 | 23 18 | 0 24 | 7 9 | 0 6 | 3 21 | 0 21 | 11 29 | 1 34 | 14 10 | 1 56 | 18 32 | 0 41 | 4 27 | 1 57 | 0 18 | 13 3 | 13 57 | 13 33 | 8 8 | | n.a. |
| T 21 | 20 36 | 28 1 | 4 38 | 23 26 | 0 15 | 6 39 | 0 1 | 3 37 | 0 21 | 11 31 | 1 34 | 14 8 | 1 56 | 18 31 | 0 41 | 4 28 | 1 57 | 0 18 | 13 3 | 13 58 | 13 34 | 8 5 | | n.a. |
| F 22 | 20 23 | 27 39 | 3 59 | 23 34 | 0 5 | 6 8 | 0n 3 | 3 52 | 0 22 | 11 33 | 1 34 | 14 5 | 1 56 | 18 30 | 0 41 | 4 28 | 1 57 | 0 18 | 13 3 | 14 0 | 13 35 | 8 2 | | n.a. |
| S 23 | 20 10 | 25 53 | 3 10 | 23 41 | 0s 4 | 5 38 | 0 8 | 4 8 | 0 23 | 11 35 | 1 34 | 14 3 | 1 56 | 18 29 | 0 41 | 4 29 | 1 57 | 0 18 | 13 3 | 14 1 | 13 36 | 7 59 | | n.a. |
| S 24 | 19 57 | 22 54 | 2 12 | 23 46 | 0 13 | 5 7 | 0 12 | 4 24 | 0 24 | 11 38 | 1 35 | 14 0 | 1 56 | 18 28 | 0 41 | 4 29 | 1 57 | 0 19 | 13 2 | 14 2 | 13 37 | 7 55 | | n.a. |
| M25 | 19 43 | 18 59 | 1 9 | 23 51 | 0 22 | 4 37 | 0 17 | 4 40 | 0 25 | 11 40 | 1 35 | 13 58 | 1 56 | 18 27 | 0 41 | 4 29 | 1 57 | 0 19 | 13 2 | 14 2 | 13 38 | 7 52 | | n.a. |
| T 26 | 19 29 | 14 20 | 0 4 | 23 55 | 0 30 | 4 6 | 0 22 | 4 56 | 0 25 | 11 42 | 1 35 | 13 55 | 1 56 | 18 26 | 0 41 | 4 30 | 1 57 | 0 19 | 13 2 | 14 2 | 13 39 | 7 49 | | n.a. |
| W27 | 19 14 | 9 11 | 1n 1 | 23 57 | 0 38 | 3 35 | 0 27 | 5 11 | 0 26 | 11 45 | 1 35 | 13 52 | 1 56 | 18 25 | 0 41 | 4 30 | 1 56 | 0 20 | 13 1 | 14 2 | 13 40 | 7 45 | | n.a. |
| T 28 | 18 59 | 3 45 | 2 4 | 23 59 | 0 46 | 3 4 | 0 32 | 5 27 | 0 27 | 11 47 | 1 36 | 13 50 | 1 56 | 18 25 | 0 41 | 4 31 | 1 56 | 0 20 | 13 1 | 14 2 | 13 41 | 7 42 | | n.a. |
| F 29 | 18 44 | 1n48 | 3 1 | 23 59 | 0 53 | 2 34 | 0 37 | 5 43 | 0 28 | 11 50 | 1 36 | 13 47 | 1 56 | 18 24 | 0 41 | 4 31 | 1 56 | 0 20 | 13 1 | 14 1 | 13 42 | 7 39 | | n.a. |
| S 30 | 18 29 | 7 19 | 3 50 | 23 58 | 1 0 | 2 3 | 0 42 | 5 58 | 0 29 | 11 52 | 1 36 | 13 45 | 1 56 | 18 23 | 0 41 | 4 32 | 1 56 | 0 21 | 13 0 | 14 1 | 13 43 | 7 36 | | n.a. |
| S 31 | 18s13 | 12n38 | 4n31 | 23s55 | 1s 7 | 1s32 | 0n47 | 6n14 | 0n29 | 11n55 | 1n36 | 13s42 | 1s56 | 18s22 | 0s41 | 4n32 | 1s56 | 0n21 | 13s 0 | 14s 1 | 13s44 | 7s32 | | n.a. |

Julian Day Number = 1686359.5, Delta T = 03h12m48s
Ecliptic obliquity = 23°42'31, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°23'26, Lahiri = - 5°16'25 Julian Calendar 1 Jan. 96 BCE == Greg. Calendar 30 Dec. 097 BCE

The year -95 astronomical counting style corresponds to year 096 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 96 BCE
# geocentric

## FEBRUARY 96 BCE (-95) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 8 32 52 | 9♒59'37 | 3♉40 | 16♋47 | 25♓27 | 15♈ 8 | 3°R10 | 29♒17 | 10♒54 | 15♈54 | 2♉47 | 23♒ 0 | 23♒44 | 8♓ 0 | n.a. | M 1 |
| T 2 | 8 36 48 | 10°59'43 | 16°10 | 18°12 | 26°32 | 15°46 | 3♍ 3 | 29°24 | 10°58 | 15°56 | 2°48 | 23°R 0 | 23°41 | 8° 7 | n.a. | T 2 |
| W 3 | 8 40 45 | 11°59'47 | 29° 1 | 19°39 | 27°36 | 16°24 | 2°56 | 29°32 | 11° 1 | 15°57 | 2°48 | 22°59 | 23°38 | 8°14 | n.a. | W 3 |
| T 4 | 8 44 41 | 12°59'48 | 12♊18 | 21° 7 | 28°40 | 17° 2 | 2°50 | 29°39 | 11° 5 | 15°58 | 2°48 | 22°58 | 23°35 | 8°20 | n.a. | T 4 |
| F 5 | 8 48 38 | 13°59'48 | 26° 1 | 22°36 | 29°44 | 17°40 | 2°43 | 29°46 | 11° 8 | 15°59 | 2°49 | 22°57 | 23°32 | 8°27 | n.a. | F 5 |
| S 6 | 8 52 34 | 14°59'45 | 10♋12 | 24° 6 | 0♈47 | 18°18 | 2°36 | 29°54 | 11°12 | 16° 0 | 2°49 | 22°56 | 23°28 | 8°34 | n.a. | S 6 |
| S 7 | 8 56 31 | 15°59'40 | 24°47 | 25°38 | 1°50 | 18°56 | 2°28 | 0♓ 1 | 11°15 | 16° 2 | 2°50 | 22°55 | 23°25 | 8°40 | n.a. | S 7 |
| M 8 | 9 0 27 | 16°59'32 | 9♌41 | 27°10 | 2°53 | 19°34 | 2°21 | 0° 9 | 11°19 | 16° 3 | 2°50 | 22°55 | 23°22 | 8°47 | n.a. | M 8 |
| T 9 | 9 4 24 | 17°59'23 | 24°47 | 28°44 | 3°55 | 20°13 | 2°14 | 0°16 | 11°22 | 16° 4 | 2°50 | 22°D55 | 23°19 | 8°54 | n.a. | T 9 |
| W10 | 9 8 21 | 18°59'11 | 9♍55 | 0♒19 | 4°57 | 20°51 | 2° 7 | 0°24 | 11°25 | 16° 6 | 2°51 | 22°55 | 23°16 | 9° 0 | n.a. | W10 |
| T 11 | 9 12 17 | 19°58'58 | 24°57 | 1°56 | 5°58 | 21°29 | 1°59 | 0°31 | 11°29 | 16° 7 | 2°51 | 22°55 | 23°13 | 9° 7 | n.a. | T 11 |
| F 12 | 9 16 14 | 20°58'42 | 9♎44 | 3°33 | 6°59 | 22° 7 | 1°52 | 0°38 | 11°32 | 16° 9 | 2°52 | 22°55 | 23° 9 | 9°13 | n.a. | F 12 |
| S 13 | 9 20 10 | 21°58'25 | 24°12 | 5°12 | 8° 0 | 22°45 | 1°44 | 0°46 | 11°36 | 16°10 | 2°52 | 22°55 | 23° 6 | 9°20 | n.a. | S 13 |
| S 14 | 9 24 7 | 22°58'06 | 8♏15 | 6°51 | 9° 0 | 23°23 | 1°37 | 0°53 | 11°39 | 16°12 | 2°53 | 22°R55 | 23° 3 | 9°27 | n.a. | S 14 |
| M15 | 9 28 3 | 23°57'45 | 21°54 | 8°33 | 10° 0 | 24° 1 | 1°29 | 1° 1 | 11°42 | 16°13 | 2°54 | 22°D55 | 23° 0 | 9°33 | n.a. | M15 |
| T 16 | 9 32 0 | 24°57'22 | 5♐10 | 10°15 | 11° 0 | 24°39 | 1°21 | 1° 9 | 11°46 | 16°15 | 2°54 | 22°55 | 22°57 | 9°40 | n.a. | T 16 |
| W17 | 9 35 56 | 25°56'58 | 18° 4 | 11°58 | 11°59 | 25°17 | 1°14 | 1°16 | 11°49 | 16°16 | 2°55 | 22°56 | 22°54 | 9°47 | n.a. | W17 |
| T 18 | 9 39 53 | 26°56'32 | 0♑40 | 13°43 | 12°57 | 25°55 | 1° 6 | 1°24 | 11°53 | 16°18 | 2°55 | 22°56 | 22°50 | 9°53 | n.a. | T 18 |
| F 19 | 9 43 50 | 27°56'04 | 13° 1 | 15°29 | 13°56 | 26°33 | 0°58 | 1°31 | 11°56 | 16°19 | 2°56 | 22°56 | 22°47 | 10° 0 | n.a. | F 19 |
| S 20 | 9 47 46 | 28°55'33 | 25°11 | 17°16 | 14°53 | 27°11 | 0°50 | 1°39 | 11°59 | 16°21 | 2°57 | 22°57 | 22°44 | 10° 7 | n.a. | S 20 |
| S 21 | 9 51 43 | 29°55'01 | 7♒11 | 19° 5 | 15°50 | 27°49 | 0°43 | 1°46 | 12° 3 | 16°23 | 2°57 | 22°58 | 22°41 | 10°13 | n.a. | S 21 |
| M22 | 9 55 39 | 0♓54'27 | 19° 5 | 20°55 | 16°47 | 28°27 | 0°35 | 1°54 | 12° 6 | 16°24 | 2°58 | 22°R58 | 22°38 | 10°20 | n.a. | M22 |
| T 23 | 9 59 36 | 1°53'51 | 0♓54 | 22°46 | 17°43 | 29° 5 | 0°27 | 2° 1 | 12° 9 | 16°26 | 2°59 | 22°58 | 22°34 | 10°27 | n.a. | T 23 |
| W24 | 10 3 32 | 2°53'12 | 12°42 | 24°38 | 18°38 | 29°43 | 0°19 | 2° 9 | 12°12 | 16°28 | 3° 0 | 22°57 | 22°31 | 10°33 | n.a. | W24 |
| T 25 | 10 7 29 | 3°52'31 | 24°30 | 26°32 | 19°33 | 0♉21 | 0°12 | 2°16 | 12°16 | 16°30 | 3° 0 | 22°56 | 22°28 | 10°40 | n.a. | T 25 |
| F 26 | 10 11 25 | 4°51'48 | 6♈20 | 28°27 | 20°27 | 0°59 | 0° 4 | 2°24 | 12°19 | 16°31 | 3° 1 | 22°54 | 22°25 | 10°47 | n.a. | F 26 |
| S 27 | 10 15 22 | 5°51'03 | 18°16 | 0♓23 | 21°21 | 1°37 | 29♌56 | 2°32 | 12°22 | 16°33 | 3° 2 | 22°53 | 22°22 | 10°53 | n.a. | S 27 |
| S 28 | 10 19 18 | 6♓50'15 | 0♉19 | 2♓20 | 22♈14 | 2♉15 | 29♌49 | 2♓39 | 12♒25 | 16♈35 | 3♉ 3 | 22♒51 | 22♒19 | 11♓ 0 | n.a. | S 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 17s56 | 17n34 | 4n59 | 23s52 | 1s14 | 1s 1 | 0n53 | 6n29 | 0n30 | 11n57 | 1n36 | 13s40 | 1s56 | 18s21 | 0s41 | 4n33 | 1s56 | 0n22 | 13s 0 | 14s 0 | 13s45 | 7s29 | | n.a. |
| T 2 | 17 40 | 21 53 | 5 15 | 23 47 | 1 20 | 0 31 | 0 58 | 6 45 | 0 31 | 12 0 | 1 37 | 13 37 | 1 56 | 18 20 | 0 41 | 4 33 | 1 56 | 0 22 | 12 59 | 14 0 | 13 47 | 7 26 | | n.a. |
| W 3 | 17 23 | 25 17 | 5 16 | 23 40 | 1 26 | 0n 0 | 1 3 | 7 0 | 0 31 | 12 2 | 1 37 | 13 34 | 1 56 | 18 19 | 0 41 | 4 34 | 1 56 | 0 22 | 12 59 | 14 1 | 13 48 | 7 22 | | n.a. |
| T 4 | 17 6 | 27 28 | 5 0 | 23 32 | 1 31 | 0 31 | 1 9 | 7 16 | 0 32 | 12 5 | 1 37 | 13 32 | 1 56 | 18 18 | 0 41 | 4 34 | 1 56 | 0 23 | 12 59 | 14 1 | 13 49 | 7 19 | | n.a. |
| F 5 | 16 49 | 28 5 | 4 26 | 23 23 | 1 37 | 1 1 | 1 14 | 7 31 | 0 33 | 12 8 | 1 37 | 13 29 | 1 56 | 18 17 | 0 41 | 4 35 | 1 56 | 0 23 | 12 59 | 14 1 | 13 50 | 7 16 | | n.a. |
| S 6 | 16 31 | 26 54 | 3 36 | 23 12 | 1 41 | 1 32 | 1 20 | 7 46 | 0 33 | 12 11 | 1 37 | 13 26 | 1 56 | 18 16 | 0 41 | 4 35 | 1 56 | 0 24 | 12 58 | 14 2 | 13 51 | 7 13 | | n.a. |
| S 7 | 16 13 | 23 52 | 2 30 | 22 59 | 1 46 | 2 2 | 1 25 | 8 1 | 0 34 | 12 13 | 1 37 | 13 24 | 1 56 | 18 15 | 0 41 | 4 36 | 1 56 | 0 24 | 12 58 | 14 2 | 13 52 | 7 9 | | n.a. |
| M 8 | 15 55 | 19 12 | 1 13 | 22 45 | 1 50 | 2 32 | 1 31 | 8 17 | 0 35 | 12 16 | 1 38 | 13 21 | 1 56 | 18 14 | 0 41 | 4 36 | 1 56 | 0 24 | 12 58 | 14 2 | 13 53 | 7 6 | | n.a. |
| T 9 | 15 37 | 13 15 | 0s10 | 22 30 | 1 54 | 3 3 | 1 36 | 8 32 | 0 35 | 12 19 | 1 38 | 13 18 | 1 56 | 18 13 | 0 41 | 4 37 | 1 56 | 0 25 | 12 57 | 14 2 | 13 54 | 7 3 | | n.a. |
| W10 | 15 18 | 6 30 | 1 33 | 22 13 | 1 57 | 3 33 | 1 42 | 8 47 | 0 36 | 12 22 | 1 38 | 13 16 | 1 56 | 18 12 | 0 41 | 4 37 | 1 56 | 0 25 | 12 57 | 14 2 | 13 55 | 6 59 | | n.a. |
| T 11 | 14 59 | 0s33 | 2 49 | 21 54 | 2 0 | 4 2 | 1 48 | 9 2 | 0 37 | 12 24 | 1 38 | 13 13 | 1 56 | 18 11 | 0 41 | 4 38 | 1 56 | 0 26 | 12 57 | 14 2 | 13 56 | 6 56 | | n.a. |
| F 12 | 14 40 | 7 27 | 3 52 | 21 34 | 2 3 | 4 32 | 1 53 | 9 17 | 0 37 | 12 27 | 1 38 | 13 10 | 1 56 | 18 10 | 0 41 | 4 39 | 1 56 | 0 26 | 12 56 | 14 2 | 13 57 | 6 53 | | n.a. |
| S 13 | 14 20 | 13 48 | 4 39 | 21 12 | 2 5 | 5 2 | 1 59 | 9 32 | 0 38 | 12 30 | 1 38 | 13 8 | 1 56 | 18 9 | 0 41 | 4 39 | 1 55 | 0 27 | 12 56 | 14 2 | 13 58 | 6 49 | | n.a. |
| S 14 | 14 1 | 19 15 | 5 8 | 20 48 | 2 7 | 5 31 | 2 5 | 9 46 | 0 38 | 12 33 | 1 38 | 13 5 | 1 56 | 18 8 | 0 41 | 4 40 | 1 55 | 0 27 | 12 56 | 14 2 | 13 59 | 6 46 | | n.a. |
| M15 | 13 41 | 23 33 | 5 18 | 20 23 | 2 8 | 6 0 | 2 11 | 10 1 | 0 39 | 12 36 | 1 38 | 13 2 | 1 56 | 18 7 | 0 41 | 4 41 | 1 55 | 0 28 | 12 56 | 14 2 | 14 0 | 6 43 | | n.a. |
| T 16 | 13 21 | 26 29 | 5 11 | 19 56 | 2 9 | 6 29 | 2 16 | 10 16 | 0 40 | 12 39 | 1 38 | 13 0 | 1 56 | 18 6 | 0 41 | 4 41 | 1 55 | 0 28 | 12 55 | 14 2 | 14 1 | 6 40 | | n.a. |
| W17 | 13 1 | 27 57 | 4 48 | 19 27 | 2 9 | 6 58 | 2 22 | 10 31 | 0 40 | 12 41 | 1 39 | 12 57 | 1 56 | 18 5 | 0 41 | 4 42 | 1 55 | 0 28 | 12 55 | 14 2 | 14 2 | 6 36 | | n.a. |
| T 18 | 12 40 | 27 54 | 4 12 | 18 57 | 2 9 | 7 26 | 2 28 | 10 45 | 0 41 | 12 44 | 1 39 | 12 54 | 1 56 | 18 5 | 0 41 | 4 43 | 1 55 | 0 29 | 12 55 | 14 2 | 14 3 | 6 33 | | n.a. |
| F 19 | 12 20 | 26 27 | 3 24 | 18 25 | 2 9 | 7 55 | 2 34 | 11 0 | 0 41 | 12 47 | 1 39 | 12 52 | 1 56 | 18 4 | 0 41 | 4 43 | 1 55 | 0 29 | 12 54 | 14 1 | 14 4 | 6 30 | | n.a. |
| S 20 | 11 59 | 23 46 | 2 28 | 17 51 | 2 7 | 8 23 | 2 40 | 11 14 | 0 42 | 12 50 | 1 39 | 12 49 | 1 56 | 18 3 | 0 41 | 4 44 | 1 55 | 0 30 | 12 54 | 14 1 | 14 5 | 6 26 | | n.a. |
| S 21 | 11 38 | 20 5 | 1 27 | 17 16 | 2 6 | 8 51 | 2 46 | 11 28 | 0 42 | 12 53 | 1 39 | 12 46 | 1 56 | 18 2 | 0 41 | 4 45 | 1 55 | 0 30 | 12 54 | 14 1 | 14 7 | 6 23 | | n.a. |
| M22 | 11 16 | 15 37 | 0 22 | 16 39 | 2 4 | 9 18 | 2 52 | 11 43 | 0 43 | 12 56 | 1 39 | 12 43 | 1 56 | 18 1 | 0 41 | 4 45 | 1 55 | 0 31 | 12 54 | 14 1 | 14 8 | 6 20 | | n.a. |
| T 23 | 10 55 | 10 36 | 0n44 | 16 0 | 2 1 | 9 45 | 2 57 | 11 57 | 0 44 | 12 59 | 1 39 | 12 41 | 1 56 | 18 0 | 0 41 | 4 46 | 1 55 | 0 31 | 12 53 | 14 1 | 14 9 | 6 16 | | n.a. |
| W24 | 10 34 | 5 13 | 1 47 | 15 19 | 1 58 | 10 12 | 3 3 | 12 11 | 0 44 | 13 1 | 1 39 | 12 38 | 1 56 | 17 59 | 0 41 | 4 47 | 1 55 | 0 32 | 12 53 | 14 1 | 14 10 | 6 13 | | n.a. |
| T 25 | 10 12 | 0n20 | 2 46 | 14 37 | 1 55 | 10 39 | 3 9 | 12 25 | 0 45 | 13 4 | 1 39 | 12 35 | 1 56 | 17 58 | 0 41 | 4 47 | 1 55 | 0 32 | 12 53 | 14 2 | 14 11 | 6 10 | | n.a. |
| F 26 | 9 50 | 5 52 | 3 38 | 13 53 | 1 51 | 11 5 | 3 15 | 12 39 | 0 45 | 13 7 | 1 39 | 12 33 | 1 56 | 17 57 | 0 41 | 4 48 | 1 55 | 0 33 | 12 53 | 14 2 | 14 12 | 6 6 | | n.a. |
| S 27 | 9 28 | 11 15 | 4 21 | 13 7 | 1 46 | 11 31 | 3 21 | 12 53 | 0 46 | 13 10 | 1 39 | 12 30 | 1 56 | 17 56 | 0 41 | 4 49 | 1 55 | 0 33 | 12 52 | 14 3 | 14 13 | 6 3 | | n.a. |
| S 28 | 9s 6 | 16n16 | 4n52 | 12s19 | 1s41 | 11n57 | 3n27 | 13n 7 | 0n46 | 13n13 | 1n39 | 12s27 | 1s57 | 17s55 | 0s41 | 4n50 | 1s55 | 0n34 | 12s52 | 14s 3 | 14s14 | 6s 0 | | n.a. |

Julian Day Number = 1686390.5, Delta T = 03h12m47s
Ecliptic obliquity = 23°42'31, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°23'22, Lahiri = - 5°16'21 Julian Calendar 1 Feb. 96 BCE == Greg. Calendar 30 Jan. 096 BCE

The year -95 astronomical counting style corresponds to year 096 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 96 BCE
# geocentric

## MARCH 96 BCE (-95) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 10 23 15 | 7♓49'25 | 12♉34 | 4♓19 | 23♈ 6 | 2♉53 | 29°R41 | 2♓47 | 12♒29 | 16♈37 | 3♉ 4 | 22°R49 | 22♒15 | 11♓ 7 | n.a. | M 1 |
| T 2 | 10 27 12 | 8°48'33 | 25° 3 | 6°19 | 23°58 | 3°31 | 29♌33 | 2°54 | 12°32 | 16°39 | 3° 4 | 22♒48 | 22°12 | 11°13 | n.a. | T 2 |
| W 3 | 10 31 8 | 9°47'39 | 7♊50 | 8°20 | 24°49 | 4° 9 | 29°26 | 3° 2 | 12°35 | 16°41 | 3° 5 | 22°D47 | 22° 9 | 11°20 | n.a. | W 3 |
| T 4 | 10 35 5 | 10°46'42 | 20°59 | 10°22 | 25°39 | 4°47 | 29°18 | 3° 9 | 12°38 | 16°42 | 3° 6 | 22°47 | 22° 6 | 11°27 | n.a. | T 4 |
| F 5 | 10 39 1 | 11°45'42 | 4♋32 | 12°25 | 26°29 | 5°25 | 29°11 | 3°17 | 12°41 | 16°44 | 3° 7 | 22°48 | 22° 3 | 11°33 | n.a. | F 5 |
| S 6 | 10 42 58 | 12°44'40 | 18°32 | 14°28 | 27°17 | 6° 3 | 29° 3 | 3°24 | 12°44 | 16°46 | 3° 8 | 22°50 | 22° 0 | 11°40 | n.a. | S 6 |
| S 7 | 10 46 54 | 13°43'36 | 2♌57 | 16°33 | 28° 5 | 6°41 | 28°56 | 3°32 | 12°47 | 16°48 | 3° 9 | 22°51 | 21°56 | 11°46 | n.a. | S 7 |
| M 8 | 10 50 51 | 14°42'29 | 17°45 | 18°37 | 28°52 | 7°19 | 28°49 | 3°39 | 12°51 | 16°50 | 3°10 | 22°R52 | 21°53 | 11°53 | n.a. | M 8 |
| T 9 | 10 54 47 | 15°41'21 | 2♍50 | 20°42 | 29°37 | 7°57 | 28°42 | 3°47 | 12°54 | 16°52 | 3°11 | 22°51 | 21°50 | 12° 0 | n.a. | T 9 |
| W10 | 10 58 44 | 16°40'09 | 18° 4 | 22°47 | 0♉22 | 8°35 | 28°34 | 3°54 | 12°57 | 16°54 | 3°12 | 22°50 | 21°47 | 12° 6 | n.a. | W10 |
| T 11 | 11 2 41 | 17°38'56 | 3♎17 | 24°51 | 1° 6 | 9°13 | 28°27 | 4° 2 | 13° 0 | 16°56 | 3°13 | 22°48 | 21°44 | 12°13 | n.a. | T 11 |
| F 12 | 11 6 37 | 18°37'41 | 18°19 | 26°55 | 1°49 | 9°51 | 28°21 | 4° 9 | 13° 3 | 16°58 | 3°14 | 22°44 | 21°40 | 12°20 | n.a. | F 12 |
| S 13 | 11 10 34 | 19°36'23 | 3♏ 2 | 28°58 | 2°31 | 10°29 | 28°14 | 4°16 | 13° 5 | 17° 0 | 3°15 | 22°41 | 21°37 | 12°26 | n.a. | S 13 |
| S 14 | 11 14 30 | 20°35'05 | 17°19 | 1♈ 0 | 3°12 | 11° 7 | 28° 7 | 4°24 | 13° 8 | 17° 2 | 3°16 | 22°37 | 21°34 | 12°33 | n.a. | S 14 |
| M15 | 11 18 27 | 21°33'44 | 1♐ 8 | 3° 1 | 3°52 | 11°45 | 28° 0 | 4°31 | 13°11 | 17° 4 | 3°17 | 22°34 | 21°31 | 12°40 | n.a. | M15 |
| T 16 | 11 22 23 | 22°32'21 | 14°30 | 4°59 | 4°30 | 12°23 | 27°54 | 4°38 | 13°14 | 17° 6 | 3°18 | 22°33 | 21°28 | 12°46 | n.a. | T 16 |
| W17 | 11 26 20 | 23°30'57 | 27°25 | 6°55 | 5° 8 | 13° 1 | 27°47 | 4°46 | 13°17 | 17° 8 | 3°19 | 22°D33 | 21°25 | 12°53 | n.a. | W17 |
| T 18 | 11 30 16 | 24°29'31 | 9♑58 | 8°48 | 5°44 | 13°39 | 27°41 | 4°53 | 13°20 | 17°11 | 3°20 | 22°34 | 21°21 | 13° 0 | n.a. | T 18 |
| F 19 | 11 34 13 | 25°28'04 | 22°13 | 10°39 | 6°19 | 14°16 | 27°35 | 5° 0 | 13°23 | 17°13 | 3°21 | 22°35 | 21°18 | 13° 6 | n.a. | F 19 |
| S 20 | 11 38 10 | 26°26'34 | 4♒15 | 12°26 | 6°52 | 14°54 | 27°29 | 5° 7 | 13°25 | 17°15 | 3°22 | 22°37 | 21°15 | 13°13 | n.a. | S 20 |
| S 21 | 11 42 6 | 27°25'03 | 16° 8 | 14°10 | 7°24 | 15°32 | 27°23 | 5°15 | 13°28 | 17°17 | 3°23 | 22°38 | 21°12 | 13°20 | n.a. | S 21 |
| M22 | 11 46 3 | 28°23'30 | 27°57 | 15°50 | 7°54 | 16°10 | 27°17 | 5°22 | 13°31 | 17°19 | 3°25 | 22°R38 | 21° 9 | 13°26 | n.a. | M22 |
| T 23 | 11 49 59 | 29°21'54 | 9♓43 | 17°26 | 8°23 | 16°48 | 27°11 | 5°29 | 13°33 | 17°21 | 3°26 | 22°37 | 21° 6 | 13°33 | n.a. | T 23 |
| W24 | 11 53 56 | 0♈20'18 | 21°31 | 18°58 | 8°51 | 17°26 | 27° 6 | 5°36 | 13°36 | 17°23 | 3°27 | 22°33 | 21° 2 | 13°40 | n.a. | W24 |
| T 25 | 11 57 52 | 1°18'39 | 3♈23 | 20°26 | 9°17 | 18° 4 | 27° 0 | 5°43 | 13°39 | 17°26 | 3°28 | 22°28 | 20°59 | 13°46 | n.a. | T 25 |
| F 26 | 12 1 49 | 2°16'58 | 15°20 | 21°49 | 9°41 | 18°42 | 26°55 | 5°50 | 13°41 | 17°28 | 3°29 | 22°21 | 20°56 | 13°53 | n.a. | F 26 |
| S 27 | 12 5 45 | 3°15'15 | 27°24 | 23° 8 | 10° 3 | 19°20 | 26°50 | 5°57 | 13°44 | 17°30 | 3°30 | 22°14 | 20°53 | 14° 0 | n.a. | S 27 |
| S 28 | 12 9 42 | 4°13'31 | 9♉37 | 24°22 | 10°24 | 19°58 | 26°45 | 6° 4 | 13°46 | 17°32 | 3°32 | 22° 6 | 20°50 | 14° 6 | n.a. | S 28 |
| M29 | 12 13 38 | 5°11'44 | 22° 0 | 25°32 | 10°42 | 20°35 | 26°40 | 6°11 | 13°49 | 17°34 | 3°33 | 21°59 | 20°46 | 14°13 | n.a. | M29 |
| T 30 | 12 17 35 | 6° 9'55 | 4♊36 | 26°36 | 10°59 | 21°13 | 26°36 | 6°18 | 13°51 | 17°37 | 3°34 | 21°54 | 20°43 | 14°20 | n.a. | T 30 |
| W31 | 12 21 32 | 7♈ 8'05 | 17♊26 | 27♈36 | 11♉14 | 21♉51 | 26♌31 | 6♓25 | 13♒53 | 17♈39 | 3♉35 | 21♒50 | 20♒40 | 14♓26 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| M 1 | 8s44 | 20n43 | 5n11 | 11s31 | 1s35 | 12n22 | 3n33 | 13n20 | 0n47 | 13n15 | 1n39 | 12s24 | 1s57 | 17s54 | 0s41 | 4n50 | 1s55 | 0n34 | 12s52 | 14s 4 | 14s15 | 5s56 | | | n.a. |
| T 2 | 8 21 | 24 21 | 5 16 | 10 40 | 1 29 | 12 47 | 3 38 | 13 34 | 0 47 | 13 18 | 1 39 | 12 22 | 1 57 | 17 54 | 0 41 | 4 51 | 1 55 | 0 35 | 12 52 | 14 4 | 14 16 | 5 53 | | | n.a. |
| W 3 | 7 59 | 26 53 | 5 6 | 9 48 | 1 22 | 13 11 | 3 44 | 13 47 | 0 48 | 13 21 | 1 39 | 12 19 | 1 57 | 17 53 | 0 41 | 4 52 | 1 55 | 0 35 | 12 51 | 14 4 | 14 17 | 5 50 | | | n.a. |
| T 4 | 7 36 | 28 2 | 4 39 | 8 55 | 1 15 | 13 35 | 3 50 | 14 1 | 0 48 | 13 23 | 1 39 | 12 16 | 1 57 | 17 52 | 0 41 | 4 53 | 1 55 | 0 36 | 12 51 | 14 4 | 14 18 | 5 46 | | | n.a. |
| F 5 | 7 14 | 27 34 | 3 56 | 8 0 | 1 7 | 13 59 | 3 56 | 14 14 | 0 49 | 13 26 | 1 39 | 12 14 | 1 57 | 17 51 | 0 41 | 4 53 | 1 55 | 0 36 | 12 51 | 14 4 | 14 19 | 5 43 | | | n.a. |
| S 6 | 6 51 | 25 21 | 2 58 | 7 4 | 0 58 | 14 22 | 4 1 | 14 27 | 0 49 | 13 29 | 1 39 | 12 11 | 1 57 | 17 50 | 0 41 | 4 54 | 1 55 | 0 37 | 12 51 | 14 4 | 14 20 | 5 40 | | | n.a. |
| S 7 | 6 28 | 21 28 | 1 48 | 6 7 | 0 49 | 14 44 | 4 7 | 14 41 | 0 49 | 13 31 | 1 39 | 12 8 | 1 57 | 17 49 | 0 41 | 4 55 | 1 54 | 0 38 | 12 50 | 14 3 | 14 21 | 5 37 | | | n.a. |
| M 8 | 6 5 | 16 8 | 0 28 | 5 10 | 0 40 | 15 7 | 4 12 | 14 54 | 0 50 | 13 34 | 1 39 | 12 6 | 1 57 | 17 48 | 0 41 | 4 56 | 1 54 | 0 38 | 12 50 | 14 3 | 14 22 | 5 33 | | | n.a. |
| T 9 | 5 42 | 9 44 | 0s55 | 4 11 | 0 30 | 15 28 | 4 18 | 15 7 | 0 50 | 13 36 | 1 39 | 12 3 | 1 57 | 17 47 | 0 41 | 4 57 | 1 54 | 0 39 | 12 50 | 14 3 | 14 23 | 5 30 | | | n.a. |
| W10 | 5 19 | 2 43 | 2 14 | 3 12 | 0 20 | 15 50 | 4 23 | 15 19 | 0 51 | 13 39 | 1 39 | 12 0 | 1 57 | 17 47 | 0 41 | 4 57 | 1 54 | 0 39 | 12 50 | 14 3 | 14 24 | 5 27 | | | n.a. |
| T 11 | 4 56 | 4s26 | 3 24 | 2 12 | 0 9 | 16 10 | 4 29 | 15 32 | 0 51 | 13 41 | 1 39 | 11 58 | 1 57 | 17 46 | 0 41 | 4 58 | 1 54 | 0 40 | 12 49 | 14 4 | 14 25 | 5 23 | | | n.a. |
| F 12 | 4 33 | 11 15 | 4 19 | 1 12 | 0n 2 | 16 31 | 4 34 | 15 45 | 0 52 | 13 43 | 1 39 | 11 55 | 1 57 | 17 45 | 0 41 | 4 59 | 1 54 | 0 40 | 12 49 | 14 5 | 14 26 | 5 20 | | | n.a. |
| S 13 | 4 10 | 17 17 | 4 56 | 0 13 | 0 13 | 16 50 | 4 39 | 15 57 | 0 52 | 13 46 | 1 39 | 11 52 | 1 57 | 17 44 | 0 41 | 5 0 | 1 54 | 0 41 | 12 49 | 14 7 | 14 27 | 5 17 | | | n.a. |
| S 14 | 3 46 | 22 11 | 5 13 | 0n47 | 0 25 | 17 10 | 4 44 | 16 10 | 0 52 | 13 48 | 1 38 | 11 50 | 1 58 | 17 43 | 0 41 | 5 1 | 1 54 | 0 41 | 12 49 | 14 8 | 14 28 | 5 13 | | | n.a. |
| M15 | 3 23 | 25 41 | 5 10 | 1 45 | 0 36 | 17 28 | 4 49 | 16 22 | 0 53 | 13 50 | 1 38 | 11 47 | 1 58 | 17 42 | 0 41 | 5 1 | 1 54 | 0 42 | 12 49 | 14 9 | 14 29 | 5 10 | | | n.a. |
| T 16 | 3 0 | 27 37 | 4 51 | 2 43 | 0 47 | 17 46 | 4 54 | 16 34 | 0 53 | 13 52 | 1 38 | 11 44 | 1 58 | 17 42 | 0 41 | 5 2 | 1 54 | 0 42 | 12 48 | 14 9 | 14 30 | 5 7 | | | n.a. |
| W17 | 2 36 | 27 59 | 4 18 | 3 40 | 0 59 | 18 3 | 4 59 | 16 46 | 0 54 | 13 55 | 1 38 | 11 42 | 1 58 | 17 41 | 0 41 | 5 3 | 1 54 | 0 43 | 12 48 | 14 9 | 14 32 | 5 3 | | | n.a. |
| T 18 | 2 13 | 26 52 | 3 33 | 4 36 | 1 10 | 18 20 | 5 3 | 16 58 | 0 54 | 13 57 | 1 38 | 11 39 | 1 58 | 17 40 | 0 41 | 5 4 | 1 54 | 0 43 | 12 48 | 14 9 | 14 33 | 5 0 | | | n.a. |
| F 19 | 1 49 | 24 28 | 2 39 | 5 30 | 1 21 | 18 36 | 5 8 | 17 10 | 0 54 | 13 59 | 1 38 | 11 37 | 1 58 | 17 39 | 0 41 | 5 5 | 1 54 | 0 44 | 12 48 | 14 8 | 14 34 | 4 57 | | | n.a. |
| S 20 | 1 26 | 21 1 | 1 39 | 6 22 | 1 32 | 18 52 | 5 12 | 17 22 | 0 55 | 14 1 | 1 38 | 11 34 | 1 58 | 17 39 | 0 41 | 5 6 | 1 54 | 0 45 | 12 48 | 14 8 | 14 35 | 4 53 | | | n.a. |
| S 21 | 1 2 | 16 44 | 0 35 | 7 13 | 1 42 | 19 7 | 5 17 | 17 33 | 0 55 | 14 3 | 1 38 | 11 31 | 1 58 | 17 38 | 0 42 | 5 6 | 1 54 | 0 45 | 12 47 | 14 7 | 14 36 | 4 50 | | | n.a. |
| M22 | 0 39 | 11 52 | 0n29 | 8 1 | 1 52 | 19 21 | 5 21 | 17 45 | 0 55 | 14 5 | 1 38 | 11 29 | 1 58 | 17 37 | 0 42 | 5 7 | 1 54 | 0 46 | 12 47 | 14 7 | 14 37 | 4 47 | | | n.a. |
| T 23 | 0 15 | 6 36 | 1 32 | 8 47 | 2 1 | 19 34 | 5 25 | 17 56 | 0 56 | 14 6 | 1 37 | 11 26 | 1 59 | 17 36 | 0 42 | 5 8 | 1 54 | 0 46 | 12 47 | 14 8 | 14 38 | 4 43 | | | n.a. |
| W24 | 0n 8 | 1 6 | 2 31 | 9 31 | 2 10 | 19 47 | 5 28 | 18 7 | 0 56 | 14 8 | 1 37 | 11 24 | 1 59 | 17 36 | 0 42 | 5 9 | 1 54 | 0 47 | 12 47 | 14 9 | 14 39 | 4 40 | | | n.a. |
| T 25 | 0 32 | 4n28 | 3 23 | 10 12 | 2 18 | 19 58 | 5 32 | 18 19 | 0 57 | 14 10 | 1 37 | 11 21 | 1 59 | 17 35 | 0 42 | 5 10 | 1 54 | 0 47 | 12 47 | 14 11 | 14 40 | 4 37 | | | n.a. |
| F 26 | 0 55 | 9 54 | 4 7 | 10 51 | 2 26 | 20 9 | 5 35 | 18 29 | 0 57 | 14 12 | 1 37 | 11 19 | 1 59 | 17 34 | 0 42 | 5 11 | 1 54 | 0 48 | 12 46 | 14 13 | 14 41 | 4 33 | | | n.a. |
| S 27 | 1 18 | 15 1 | 4 41 | 11 27 | 2 32 | 20 20 | 5 38 | 18 40 | 0 57 | 14 13 | 1 37 | 11 16 | 1 59 | 17 33 | 0 42 | 5 12 | 1 54 | 0 48 | 12 46 | 14 15 | 14 42 | 4 30 | | | n.a. |
| S 28 | 1 42 | 19 37 | 5 2 | 12 0 | 2 38 | 20 29 | 5 41 | 18 51 | 0 58 | 14 15 | 1 37 | 11 14 | 1 59 | 17 33 | 0 42 | 5 12 | 1 54 | 0 49 | 12 46 | 14 18 | 14 43 | 4 27 | | | n.a. |
| M29 | 2 5 | 23 26 | 5 9 | 12 30 | 2 43 | 20 37 | 5 43 | 19 2 | 0 58 | 14 16 | 1 37 | 11 11 | 1 59 | 17 32 | 0 42 | 5 13 | 1 54 | 0 49 | 12 46 | 14 20 | 14 44 | 4 23 | | | n.a. |
| T 30 | 2 29 | 26 14 | 5 1 | 12 58 | 2 47 | 20 45 | 5 46 | 19 12 | 0 58 | 14 18 | 1 36 | 11 9 | 1 59 | 17 31 | 0 42 | 5 14 | 1 54 | 0 50 | 12 46 | 14 22 | 14 45 | 4 20 | | | n.a. |
| W31 | 2n52 | 27n44 | 4n39 | 13n23 | 2n50 | 20n52 | 5n48 | 19n23 | 0n58 | 14n19 | 1n36 | 11s 6 | 2s 0 | 17s31 | 0s42 | 5n15 | 1s54 | 0n51 | 12s46 | 14s23 | 14s46 | 4s17 | | | n.a. |

Julian Day Number = 1686418.5, Delta T = 03h12m46s
Ecliptic obliquity = 23°42'32, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°23'18, Lahiri = - 5°16'17 Julian Calendar 1 March 96 BCE == Greg. Calendar 27 Feb. 096 BCE

The year -95 astronomical counting style corresponds to year 096 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 96 BCE
# geocentric

## APRIL 96 BCE (-95) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 25 28 | 8♈ 6'12 | 0♋33 | 28♈30 | 11♉27 | 22♉29 | 26°R27 | 6♓32 | 13♒56 | 17♈41 | 3♉36 | 21°R48 | 20♒37 | 14♓33 | n.a. | T 1 |
| F 2 | 12 29 25 | 9° 4'17 | 14° 0 | 29°20 | 11°37 | 23° 7 | 26♌23 | 6°39 | 13°58 | 17°43 | 3°38 | 21°D48 | 20°34 | 14°40 | n.a. | F 2 |
| S 3 | 12 33 21 | 10° 2'20 | 27°48 | 0♉ 4 | 11°46 | 23°45 | 26°19 | 6°45 | 14° 0 | 17°46 | 3°39 | 21♒49 | 20°31 | 14°46 | n.a. | S 3 |
| S 4 | 12 37 18 | 11° 0'21 | 11♌58 | 0°43 | 11°52 | 24°23 | 26°15 | 6°52 | 14° 3 | 17°48 | 3°40 | 21°50 | 20°27 | 14°53 | n.a. | S 4 |
| M 5 | 12 41 14 | 11°58'20 | 26°30 | 1°17 | 11°55 | 25° 0 | 26°11 | 6°59 | 14° 5 | 17°50 | 3°41 | 21°R50 | 20°24 | 14°59 | n.a. | M 5 |
| T 6 | 12 45 11 | 12°56'17 | 11♍21 | 1°45 | 11°R57 | 25°38 | 26° 8 | 7° 6 | 14° 7 | 17°52 | 3°43 | 21°49 | 20°21 | 15° 6 | n.a. | T 6 |
| W 7 | 12 49 7 | 13°54'12 | 26°23 | 2° 8 | 11°56 | 26°16 | 26° 4 | 7°12 | 14° 9 | 17°54 | 3°44 | 21°45 | 20°18 | 15°13 | n.a. | W 7 |
| T 8 | 12 53 4 | 14°52'06 | 11♎30 | 2°26 | 11°53 | 26°54 | 26° 1 | 7°19 | 14°11 | 17°57 | 3°45 | 21°39 | 20°15 | 15°19 | n.a. | T 8 |
| F 9 | 12 57 1 | 15°49'57 | 26°31 | 2°39 | 11°47 | 27°32 | 25°58 | 7°25 | 14°13 | 17°59 | 3°47 | 21°31 | 20°11 | 15°26 | n.a. | F 9 |
| S 10 | 13 0 57 | 16°47'48 | 11♏17 | 2°47 | 11°39 | 28°10 | 25°55 | 7°32 | 14°15 | 18° 1 | 3°48 | 21°23 | 20° 8 | 15°33 | n.a. | S 10 |
| S 11 | 13 4 54 | 17°45'36 | 25°41 | 2°R49 | 11°28 | 28°47 | 25°53 | 7°38 | 14°17 | 18° 3 | 3°49 | 21°15 | 20° 5 | 15°39 | n.a. | S 11 |
| M12 | 13 8 50 | 18°43'24 | 9♐37 | 2°46 | 11°15 | 29°25 | 25°50 | 7°44 | 14°19 | 18° 6 | 3°51 | 21° 8 | 20° 2 | 15°46 | n.a. | M12 |
| T 13 | 13 12 47 | 19°41'10 | 23° 5 | 2°39 | 11° 0 | 0♊ 3 | 25°48 | 7°51 | 14°21 | 18° 8 | 3°52 | 21° 3 | 19°59 | 15°53 | n.a. | T 13 |
| W14 | 13 16 43 | 20°38'55 | 6♑ 5 | 2°27 | 10°42 | 0°41 | 25°46 | 7°57 | 14°23 | 18°10 | 3°53 | 20°59 | 19°56 | 15°59 | n.a. | W14 |
| T 15 | 13 20 40 | 21°36'38 | 18°40 | 2°11 | 10°22 | 1°18 | 25°44 | 8° 3 | 14°25 | 18°13 | 3°55 | 20°D58 | 19°52 | 16° 6 | n.a. | T 15 |
| F 16 | 13 24 36 | 22°34'21 | 0♒55 | 1°51 | 9°59 | 1°56 | 25°42 | 8° 9 | 14°26 | 18°15 | 3°56 | 20°59 | 19°49 | 16°13 | n.a. | F 16 |
| S 17 | 13 28 33 | 23°32'02 | 12°56 | 1°27 | 9°35 | 2°34 | 25°40 | 8°15 | 14°28 | 18°17 | 3°57 | 20°59 | 19°46 | 16°19 | n.a. | S 17 |
| S 18 | 13 32 30 | 24°29'42 | 24°48 | 1° 0 | 9° 8 | 3°12 | 25°39 | 8°21 | 14°30 | 18°19 | 3°59 | 20°R59 | 19°43 | 16°26 | n.a. | S 18 |
| M19 | 13 36 26 | 25°27'21 | 6♓35 | 0°31 | 8°40 | 3°50 | 25°38 | 8°27 | 14°31 | 18°21 | 4° 0 | 20°58 | 19°40 | 16°33 | n.a. | M19 |
| T 20 | 13 40 23 | 26°24'58 | 18°22 | 29♈59 | 8° 9 | 4°27 | 25°37 | 8°33 | 14°33 | 18°24 | 4° 1 | 20°55 | 19°37 | 16°39 | n.a. | T 20 |
| W21 | 13 44 19 | 27°22'35 | 0♈13 | 29°26 | 7°37 | 5° 5 | 25°36 | 8°39 | 14°34 | 18°26 | 4° 3 | 20°49 | 19°33 | 16°46 | n.a. | W21 |
| T 22 | 13 48 16 | 28°20'10 | 12°10 | 28°52 | 7° 4 | 5°43 | 25°35 | 8°45 | 14°36 | 18°28 | 4° 4 | 20°40 | 19°30 | 16°53 | n.a. | T 22 |
| F 23 | 13 52 12 | 29°17'44 | 24°17 | 28°18 | 6°29 | 6°21 | 25°35 | 8°51 | 14°37 | 18°30 | 4° 5 | 20°29 | 19°27 | 16°59 | n.a. | F 23 |
| S 24 | 13 56 9 | 0♉15'16 | 6♉33 | 27°43 | 5°54 | 6°58 | 25°34 | 8°56 | 14°39 | 18°33 | 4° 7 | 20°17 | 19°24 | 17° 6 | n.a. | S 24 |
| S 25 | 14 0 5 | 1°12'48 | 19° 0 | 27°10 | 5°17 | 7°36 | 25°D34 | 9° 2 | 14°40 | 18°35 | 4° 8 | 20° 5 | 19°21 | 17°13 | n.a. | S 25 |
| M26 | 14 4 2 | 2°10'18 | 1♊39 | 26°38 | 4°40 | 8°14 | 25°34 | 9° 8 | 14°42 | 18°37 | 4° 9 | 19°53 | 19°17 | 17°19 | n.a. | M26 |
| T 27 | 14 7 59 | 3° 7'47 | 14°29 | 26° 7 | 4° 2 | 8°52 | 25°35 | 9°13 | 14°43 | 18°39 | 4°11 | 19°44 | 19°14 | 17°26 | n.a. | T 27 |
| W28 | 14 11 55 | 4° 5'15 | 27°31 | 25°40 | 3°24 | 9°29 | 25°35 | 9°18 | 14°44 | 18°41 | 4°12 | 19°37 | 19°11 | 17°33 | n.a. | W28 |
| T 29 | 14 15 52 | 5° 2'41 | 10♋46 | 25°15 | 2°47 | 10° 7 | 25°36 | 9°24 | 14°45 | 18°44 | 4°14 | 19°32 | 19° 8 | 17°39 | n.a. | T 29 |
| F 30 | 14 19 48 | 6♉ 0'06 | 24♋15 | 24♈53 | 2♉ 9 | 10♊45 | 25♌36 | 9♓29 | 14♒46 | 18♈46 | 4♉15 | 19♒30 | 19♒ 5 | 17♓46 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3n15 | 27n44 | 4n 1 | 13n45 | 2n53 | 20n57 | 5n49 | 19n33 | 0n59 | 14n21 | 1n36 | 11s 4 | 2s 0 | 17s30 | 0s42 | 5n16 | 1s54 | 0n51 | 12s45 | 14s24 | 14s47 | 4s13 | | n.a. |
| F 2 | 3 38 | 26 7 | 3 10 | 14 4 | 2 54 | 21 2 | 5 50 | 19 43 | 0 59 | 14 22 | 1 36 | 11 1 | 2 0 | 17 29 | 0 42 | 5 17 | 1 54 | 0 52 | 12 45 | 14 24 | 14 48 | 4 10 | | n.a. |
| S 3 | 4 1 | 22 54 | 2 6 | 14 20 | 2 54 | 21 5 | 5 51 | 19 53 | 0 59 | 14 23 | 1 36 | 10 59 | 2 0 | 17 29 | 0 42 | 5 18 | 1 54 | 0 52 | 12 45 | 14 24 | 14 49 | 4 7 | | n.a. |
| S 4 | 4 24 | 18 14 | 0 53 | 14 33 | 2 53 | 21 8 | 5 52 | 20 2 | 1 0 | 14 24 | 1 36 | 10 57 | 2 0 | 17 28 | 0 42 | 5 18 | 1 54 | 0 53 | 12 45 | 14 23 | 14 50 | 4 3 | | n.a. |
| M 5 | 4 47 | 12 26 | 0s25 | 14 43 | 2 51 | 21 9 | 5 52 | 20 12 | 1 0 | 14 25 | 1 35 | 10 54 | 2 0 | 17 27 | 0 42 | 5 19 | 1 54 | 0 53 | 12 45 | 14 23 | 14 51 | 4 0 | | n.a. |
| T 6 | 5 10 | 5 48 | 1 43 | 14 50 | 2 48 | 21 9 | 5 52 | 20 22 | 1 0 | 14 26 | 1 35 | 10 52 | 2 0 | 17 27 | 0 42 | 5 20 | 1 54 | 0 54 | 12 45 | 14 24 | 14 52 | 3 57 | | n.a. |
| W 7 | 5 33 | 1s13 | 2 55 | 14 54 | 2 43 | 21 8 | 5 51 | 20 31 | 1 1 | 14 27 | 1 35 | 10 50 | 2 1 | 17 26 | 0 42 | 5 21 | 1 54 | 0 54 | 12 45 | 14 25 | 14 53 | 3 53 | | n.a. |
| T 8 | 5 55 | 8 11 | 3 55 | 14 55 | 2 38 | 21 6 | 5 50 | 20 40 | 1 1 | 14 28 | 1 35 | 10 47 | 2 1 | 17 26 | 0 42 | 5 22 | 1 54 | 0 55 | 12 45 | 14 27 | 14 54 | 3 50 | | n.a. |
| F 9 | 6 18 | 14 38 | 4 38 | 14 53 | 2 31 | 21 3 | 5 48 | 20 49 | 1 1 | 14 29 | 1 35 | 10 45 | 2 1 | 17 25 | 0 42 | 5 23 | 1 54 | 0 55 | 12 44 | 14 29 | 14 55 | 3 47 | | n.a. |
| S 10 | 6 40 | 20 9 | 5 1 | 14 49 | 2 23 | 20 58 | 5 46 | 20 58 | 1 1 | 14 30 | 1 34 | 10 43 | 2 1 | 17 25 | 0 42 | 5 24 | 1 54 | 0 56 | 12 44 | 14 32 | 14 56 | 3 43 | | n.a. |
| S 11 | 7 3 | 24 19 | 5 5 | 14 41 | 2 14 | 20 52 | 5 43 | 21 7 | 1 2 | 14 31 | 1 34 | 10 40 | 2 1 | 17 24 | 0 42 | 5 25 | 1 54 | 0 56 | 12 44 | 14 35 | 14 57 | 3 40 | | n.a. |
| M12 | 7 25 | 26 55 | 4 50 | 14 31 | 2 4 | 20 45 | 5 40 | 21 16 | 1 2 | 14 31 | 1 34 | 10 38 | 2 1 | 17 23 | 0 42 | 5 25 | 1 54 | 0 57 | 12 44 | 14 37 | 14 58 | 3 37 | | n.a. |
| T 13 | 7 47 | 27 51 | 4 20 | 14 18 | 1 53 | 20 36 | 5 36 | 21 24 | 1 2 | 14 32 | 1 34 | 10 36 | 2 2 | 17 23 | 0 42 | 5 26 | 1 54 | 0 58 | 12 44 | 14 39 | 14 59 | 3 33 | | n.a. |
| W14 | 8 9 | 27 10 | 3 37 | 14 2 | 1 41 | 20 26 | 5 31 | 21 32 | 1 2 | 14 32 | 1 34 | 10 34 | 2 2 | 17 22 | 0 42 | 5 27 | 1 54 | 0 58 | 12 44 | 14 40 | 15 0 | 3 30 | | n.a. |
| T 15 | 8 31 | 25 6 | 2 44 | 13 44 | 1 27 | 20 15 | 5 26 | 21 41 | 1 3 | 14 33 | 1 33 | 10 32 | 2 2 | 17 22 | 0 42 | 5 28 | 1 54 | 0 59 | 12 44 | 14 40 | 15 1 | 3 27 | | n.a. |
| F 16 | 8 53 | 21 53 | 1 45 | 13 23 | 1 13 | 20 2 | 5 21 | 21 49 | 1 3 | 14 33 | 1 33 | 10 29 | 2 2 | 17 21 | 0 42 | 5 29 | 1 54 | 0 59 | 12 44 | 14 40 | 15 2 | 3 23 | | n.a. |
| S 17 | 9 14 | 17 48 | 0 43 | 13 1 | 0 58 | 19 48 | 5 14 | 21 56 | 1 3 | 14 34 | 1 33 | 10 27 | 2 2 | 17 21 | 0 42 | 5 30 | 1 54 | 1 0 | 12 44 | 14 40 | 15 3 | 3 20 | | n.a. |
| S 18 | 9 36 | 13 5 | 0n20 | 12 37 | 0 42 | 19 32 | 5 7 | 22 4 | 1 3 | 14 34 | 1 33 | 10 25 | 2 2 | 17 21 | 0 42 | 5 31 | 1 54 | 1 0 | 12 44 | 14 40 | 15 4 | 3 17 | | n.a. |
| M19 | 9 57 | 7 55 | 1 22 | 12 11 | 0 26 | 19 16 | 4 59 | 22 12 | 1 4 | 14 34 | 1 32 | 10 23 | 2 3 | 17 20 | 0 42 | 5 31 | 1 54 | 1 1 | 12 43 | 14 40 | 15 5 | 3 13 | | n.a. |
| T 20 | 10 18 | 2 30 | 2 21 | 11 44 | 0 9 | 18 58 | 4 51 | 22 19 | 1 4 | 14 34 | 1 32 | 10 21 | 2 3 | 17 20 | 0 42 | 5 32 | 1 54 | 1 1 | 12 43 | 14 41 | 15 6 | 3 10 | | n.a. |
| W21 | 10 39 | 3n 2 | 3 13 | 11 16 | 0s 8 | 18 39 | 4 42 | 22 26 | 1 4 | 14 34 | 1 32 | 10 19 | 2 3 | 17 19 | 0 43 | 5 33 | 1 54 | 1 2 | 12 43 | 14 43 | 15 7 | 3 7 | | n.a. |
| T 22 | 11 0 | 8 30 | 3 57 | 10 48 | 0 25 | 18 18 | 4 32 | 22 33 | 1 4 | 14 34 | 1 32 | 10 17 | 2 3 | 17 19 | 0 43 | 5 34 | 1 54 | 1 2 | 12 43 | 14 46 | 15 8 | 3 3 | | n.a. |
| F 23 | 11 21 | 13 42 | 4 31 | 10 20 | 0 43 | 17 57 | 4 22 | 22 40 | 1 4 | 14 34 | 1 31 | 10 15 | 2 3 | 17 18 | 0 43 | 5 35 | 1 54 | 1 3 | 12 43 | 14 49 | 15 9 | 3 0 | | n.a. |
| S 24 | 11 41 | 18 27 | 4 53 | 9 51 | 1 0 | 17 35 | 4 11 | 22 47 | 1 5 | 14 34 | 1 31 | 10 13 | 2 4 | 17 18 | 0 43 | 5 36 | 1 54 | 1 3 | 12 43 | 14 53 | 15 10 | 2 57 | | n.a. |
| S 25 | 12 2 | 22 29 | 5 2 | 9 24 | 1 16 | 17 12 | 4 0 | 22 53 | 1 5 | 14 34 | 1 31 | 10 11 | 2 4 | 17 18 | 0 43 | 5 36 | 1 54 | 1 4 | 12 43 | 14 57 | 15 11 | 2 53 | | n.a. |
| M26 | 12 22 | 25 32 | 4 55 | 8 57 | 1 32 | 16 48 | 3 48 | 23 0 | 1 5 | 14 34 | 1 31 | 10 9 | 2 4 | 17 17 | 0 43 | 5 37 | 1 54 | 1 4 | 12 43 | 15 1 | 15 12 | 2 50 | | n.a. |
| T 27 | 12 42 | 27 20 | 4 34 | 8 31 | 1 48 | 16 23 | 3 36 | 23 6 | 1 5 | 14 33 | 1 31 | 10 7 | 2 4 | 17 17 | 0 43 | 5 38 | 1 54 | 1 5 | 12 43 | 15 4 | 15 13 | 2 47 | | n.a. |
| W28 | 13 1 | 27 40 | 3 59 | 8 7 | 2 3 | 15 58 | 3 23 | 23 12 | 1 5 | 14 33 | 1 30 | 10 5 | 2 4 | 17 17 | 0 43 | 5 39 | 1 54 | 1 5 | 12 43 | 15 6 | 15 14 | 2 43 | | n.a. |
| T 29 | 13 21 | 26 25 | 3 10 | 7 45 | 2 17 | 15 33 | 3 10 | 23 18 | 1 6 | 14 33 | 1 30 | 10 3 | 2 5 | 17 16 | 0 43 | 5 40 | 1 54 | 1 6 | 12 43 | 15 8 | 15 15 | 2 40 | | n.a. |
| F 30 | 13n40 | 23n38 | 2n10 | 7n25 | 2s30 | 15n 7 | 2n57 | 23n24 | 1n 6 | 14n32 | 1n30 | 10s 1 | 2s 5 | 17s16 | 0s43 | 5n41 | 1s54 | 1n 6 | 12s43 | 15s 8 | 15s16 | 2s37 | | n.a. |

Julian Day Number = 1686449.5, Delta T = 03h12m45s
Ecliptic obliquity = 23°42'32, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°23'14, Lahiri = - 5°16'13 Julian Calendar 1 Apr. 96 BCE == Greg. Calendar 30 March 096 BCE


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# ASTRODIENST EPHEMERIS for the year 96 BCE
# geocentric

## MAY 96 BCE (-95) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 14 23 45 | 6♉57'30 | 7♌59 | 24°R35 | 1°R33 | 11♊23 | 25♌37 | 9♓34 | 14♒47 | 18♈48 | 4♉16 | 19°D30 | 19♒ 2 | 17♓53 | n.a. | S 1 |
| S 2 | 14 27 41 | 7°54'52 | 22° 0 | 24♈20 | 0♉56 | 12° 0 | 25°39 | 9°40 | 14°48 | 18°50 | 4°18 | 19°R30 | 18°58 | 17°59 | n.a. | S 2 |
| M 3 | 14 31 38 | 8°52'13 | 6♍16 | 24°10 | 0°22 | 12°38 | 25°40 | 9°45 | 14°49 | 18°52 | 4°19 | 19♒29 | 18°55 | 18° 6 | n.a. | M 3 |
| T 4 | 14 35 34 | 9°49'33 | 20°47 | 24° 4 | 29♈48 | 13°16 | 25°41 | 9°50 | 14°50 | 18°54 | 4°20 | 19°26 | 18°52 | 18°13 | n.a. | T 4 |
| W 5 | 14 39 31 | 10°46'51 | 5♎29 | 24°D 2 | 29°15 | 13°53 | 25°43 | 9°55 | 14°51 | 18°57 | 4°22 | 19°21 | 18°49 | 18°19 | n.a. | W 5 |
| T 6 | 14 43 28 | 11°44'08 | 20°16 | 24° 5 | 28°45 | 14°31 | 25°45 | 9°59 | 14°52 | 18°59 | 4°23 | 19°13 | 18°46 | 18°26 | n.a. | T 6 |
| F 7 | 14 47 24 | 12°41'25 | 5♏ 1 | 24°12 | 28°16 | 15° 9 | 25°47 | 10° 4 | 14°53 | 19° 1 | 4°24 | 19° 3 | 18°43 | 18°33 | n.a. | F 7 |
| S 8 | 14 51 21 | 13°38'40 | 19°35 | 24°24 | 27°49 | 15°46 | 25°49 | 10° 9 | 14°54 | 19° 3 | 4°26 | 18°52 | 18°39 | 18°39 | n.a. | S 8 |
| S 9 | 14 55 17 | 14°35'55 | 3♐52 | 24°40 | 27°24 | 16°24 | 25°52 | 10°14 | 14°54 | 19° 5 | 4°27 | 18°41 | 18°36 | 18°46 | n.a. | S 9 |
| M10 | 14 59 14 | 15°33'09 | 17°45 | 25° 1 | 27° 1 | 17° 2 | 25°54 | 10°18 | 14°55 | 19° 7 | 4°28 | 18°31 | 18°33 | 18°53 | n.a. | M10 |
| T 11 | 15 3 10 | 16°30'23 | 1♑12 | 25°26 | 26°40 | 17°40 | 25°57 | 10°23 | 14°56 | 19° 9 | 4°30 | 18°23 | 18°30 | 18°59 | n.a. | T 11 |
| W12 | 15 7 7 | 17°27'36 | 14°13 | 25°56 | 26°22 | 18°17 | 26° 0 | 10°27 | 14°56 | 19°11 | 4°31 | 18°18 | 18°27 | 19° 6 | n.a. | W12 |
| T 13 | 15 11 3 | 18°24'49 | 26°50 | 26°29 | 26° 6 | 18°55 | 26° 3 | 10°31 | 14°57 | 19°13 | 4°32 | 18°15 | 18°23 | 19°13 | n.a. | T 13 |
| F 14 | 15 15 0 | 19°22'01 | 9♒ 8 | 27° 7 | 25°53 | 19°33 | 26° 6 | 10°36 | 14°57 | 19°15 | 4°34 | 18°14 | 18°20 | 19°19 | n.a. | F 14 |
| S 15 | 15 18 57 | 20°19'13 | 21°10 | 27°49 | 25°41 | 20°10 | 26° 9 | 10°40 | 14°58 | 19°17 | 4°35 | 18°14 | 18°17 | 19°26 | n.a. | S 15 |
| S 16 | 15 22 53 | 21°16'24 | 3♓ 3 | 28°36 | 25°33 | 20°48 | 26°13 | 10°44 | 14°58 | 19°19 | 4°36 | 18°14 | 18°14 | 19°33 | n.a. | S 16 |
| M17 | 15 26 50 | 22°13'35 | 14°51 | 29°26 | 25°26 | 21°26 | 26°17 | 10°48 | 14°58 | 19°21 | 4°38 | 18°12 | 18°11 | 19°39 | n.a. | M17 |
| T 18 | 15 30 46 | 23°10'46 | 26°41 | 0♉20 | 25°23 | 22° 3 | 26°20 | 10°52 | 14°59 | 19°23 | 4°39 | 18° 9 | 18° 8 | 19°46 | n.a. | T 18 |
| W19 | 15 34 43 | 24° 7'56 | 8♈36 | 1°17 | 25°D21 | 22°41 | 26°24 | 10°56 | 14°59 | 19°25 | 4°40 | 18° 3 | 18° 4 | 19°53 | n.a. | W19 |
| T 20 | 15 38 39 | 25° 5'07 | 20°40 | 2°19 | 25°22 | 23°19 | 26°29 | 10°59 | 14°59 | 19°27 | 4°42 | 17°54 | 18° 1 | 19°59 | n.a. | T 20 |
| F 21 | 15 42 36 | 26° 2'17 | 2♉56 | 3°24 | 25°25 | 23°57 | 26°33 | 11° 3 | 14°59 | 19°29 | 4°43 | 17°43 | 17°58 | 20° 6 | n.a. | F 21 |
| S 22 | 15 46 32 | 26°59'27 | 15°26 | 4°33 | 25°30 | 24°34 | 26°38 | 11° 7 | 14°59 | 19°31 | 4°44 | 17°31 | 17°55 | 20°13 | n.a. | S 22 |
| S 23 | 15 50 29 | 27°56'36 | 28° 9 | 5°45 | 25°38 | 25°12 | 26°42 | 11°10 | 14°R59 | 19°33 | 4°45 | 17°18 | 17°52 | 20°19 | n.a. | S 23 |
| M24 | 15 54 26 | 28°53'45 | 11♊ 7 | 7° 1 | 25°48 | 25°50 | 26°47 | 11°14 | 14°59 | 19°34 | 4°47 | 17° 6 | 17°48 | 20°26 | n.a. | M24 |
| T 25 | 15 58 22 | 29°50'54 | 24°17 | 8°20 | 25°59 | 26°27 | 26°52 | 11°17 | 14°59 | 19°36 | 4°48 | 16°56 | 17°45 | 20°33 | n.a. | T 25 |
| W26 | 16 2 19 | 0♊48'03 | 7♋39 | 9°43 | 26°13 | 27° 5 | 26°57 | 11°20 | 14°59 | 19°38 | 4°49 | 16°48 | 17°42 | 20°39 | n.a. | W26 |
| T 27 | 16 6 15 | 1°45'11 | 21°12 | 11° 9 | 26°29 | 27°43 | 27° 2 | 11°23 | 14°59 | 19°40 | 4°50 | 16°44 | 17°39 | 20°46 | n.a. | T 27 |
| F 28 | 16 10 12 | 2°42'19 | 4♌54 | 12°39 | 26°46 | 28°21 | 27° 8 | 11°26 | 14°59 | 19°42 | 4°52 | 16°41 | 17°36 | 20°53 | n.a. | F 28 |
| S 29 | 16 14 8 | 3°39'26 | 18°45 | 14°11 | 27° 6 | 28°58 | 27°13 | 11°29 | 14°59 | 19°43 | 4°53 | 16°D41 | 17°33 | 20°59 | n.a. | S 29 |
| S 30 | 16 18 5 | 4°36'33 | 2♍45 | 15°48 | 27°27 | 29°36 | 27°19 | 11°32 | 14°58 | 19°45 | 4°54 | 16°R41 | 17°29 | 21° 6 | n.a. | S 30 |
| M31 | 16 22 2 | 5♊33'39 | 16♍54 | 17♉27 | 27♈50 | 0♋14 | 27♌25 | 11♓35 | 14♒58 | 19♈47 | 4♉55 | 16♒41 | 17♒26 | 21♓13 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 13n59 | 19n27 | 1n 1 | 7n 7 | 2s42 | 14n41 | 2n43 | 23n29 | 1n 6 | 14n32 | 1n30 | 10s 0 | 2s 5 | 17s16 | 0s43 | 5n41 | 1s54 | 1n 6 | 12s43 | 15s 8 | 15s17 | 2s33 | | n.a. |
| S 2 | 14 18 | 14 7 | 0s13 | 6 51 | 2 53 | 14 15 | 2 29 | 23 35 | 1 6 | 14 31 | 1 29 | 9 58 | 2 5 | 17 15 | 0 43 | 5 42 | 1 54 | 1 7 | 12 43 | 15 8 | 15 18 | 2 30 | | n.a. |
| M 3 | 14 37 | 7 57 | 1 28 | 6 38 | 3 3 | 13 50 | 2 15 | 23 40 | 1 6 | 14 30 | 1 29 | 9 56 | 2 6 | 17 15 | 0 43 | 5 43 | 1 54 | 1 7 | 12 43 | 15 9 | 15 19 | 2 27 | | n.a. |
| T 4 | 14 55 | 1 17 | 2 37 | 6 28 | 3 12 | 13 25 | 2 1 | 23 45 | 1 7 | 14 30 | 1 29 | 9 54 | 2 6 | 17 15 | 0 43 | 5 44 | 1 54 | 1 8 | 12 43 | 15 9 | 15 20 | 2 23 | | n.a. |
| W 5 | 15 14 | 5s32 | 3 38 | 6 20 | 3 20 | 13 0 | 1 47 | 23 50 | 1 7 | 14 29 | 1 29 | 9 53 | 2 6 | 17 15 | 0 43 | 5 45 | 1 54 | 1 8 | 12 43 | 15 11 | 15 21 | 2 20 | | n.a. |
| T 6 | 15 32 | 12 4 | 4 24 | 6 15 | 3 27 | 12 36 | 1 33 | 23 54 | 1 7 | 14 28 | 1 28 | 9 51 | 2 6 | 17 15 | 0 43 | 5 45 | 1 54 | 1 9 | 12 43 | 15 13 | 15 22 | 2 17 | | n.a. |
| F 7 | 15 49 | 17 55 | 4 52 | 6 12 | 3 32 | 12 12 | 1 19 | 23 59 | 1 7 | 14 27 | 1 28 | 9 50 | 2 6 | 17 14 | 0 43 | 5 46 | 1 54 | 1 9 | 12 43 | 15 17 | 15 23 | 2 13 | | n.a. |
| S 8 | 16 7 | 22 38 | 5 1 | 6 12 | 3 37 | 11 49 | 1 5 | 24 3 | 1 7 | 14 26 | 1 28 | 9 48 | 2 7 | 17 14 | 0 43 | 5 47 | 1 54 | 1 10 | 12 43 | 15 20 | 15 24 | 2 10 | | n.a. |
| S 9 | 16 24 | 25 54 | 4 50 | 6 15 | 3 40 | 11 27 | 0 51 | 24 7 | 1 7 | 14 25 | 1 28 | 9 46 | 2 7 | 17 14 | 0 43 | 5 48 | 1 54 | 1 10 | 12 43 | 15 24 | 15 25 | 2 7 | | n.a. |
| M10 | 16 41 | 27 30 | 4 23 | 6 21 | 3 42 | 11 6 | 0 38 | 24 11 | 1 7 | 14 24 | 1 28 | 9 45 | 2 7 | 17 14 | 0 43 | 5 48 | 1 54 | 1 10 | 12 43 | 15 27 | 15 26 | 2 3 | | n.a. |
| T 11 | 16 58 | 27 24 | 3 42 | 6 29 | 3 43 | 10 47 | 0 24 | 24 15 | 1 8 | 14 23 | 1 27 | 9 43 | 2 7 | 17 14 | 0 43 | 5 49 | 1 54 | 1 11 | 12 43 | 15 29 | 15 27 | 2 0 | | n.a. |
| W12 | 17 14 | 25 45 | 2 50 | 6 39 | 3 44 | 10 28 | 0 11 | 24 19 | 1 8 | 14 22 | 1 27 | 9 42 | 2 8 | 17 14 | 0 43 | 5 50 | 1 54 | 1 11 | 12 43 | 15 31 | 15 28 | 1 57 | | n.a. |
| T 13 | 17 30 | 22 50 | 1 51 | 6 52 | 3 43 | 10 10 | 0s 1 | 24 22 | 1 8 | 14 20 | 1 27 | 9 40 | 2 8 | 17 13 | 0 43 | 5 51 | 1 54 | 1 12 | 12 43 | 15 32 | 15 29 | 1 53 | | n.a. |
| F 14 | 17 46 | 18 57 | 0 48 | 7 7 | 3 41 | 9 54 | 0 14 | 24 25 | 1 8 | 14 19 | 1 27 | 9 39 | 2 8 | 17 13 | 0 43 | 5 51 | 1 54 | 1 12 | 12 43 | 15 32 | 15 30 | 1 50 | | n.a. |
| S 15 | 18 2 | 14 22 | 0n16 | 7 25 | 3 39 | 9 38 | 0 26 | 24 28 | 1 8 | 14 18 | 1 26 | 9 38 | 2 8 | 17 13 | 0 43 | 5 52 | 1 54 | 1 12 | 12 43 | 15 32 | 15 31 | 1 47 | | n.a. |
| S 16 | 18 17 | 9 18 | 1 18 | 7 44 | 3 36 | 9 24 | 0 37 | 24 31 | 1 8 | 14 16 | 1 26 | 9 36 | 2 9 | 17 13 | 0 43 | 5 53 | 1 54 | 1 13 | 12 43 | 15 32 | 15 32 | 1 43 | | n.a. |
| M17 | 18 32 | 3 57 | 2 16 | 8 6 | 3 32 | 9 12 | 0 49 | 24 34 | 1 8 | 14 15 | 1 26 | 9 35 | 2 9 | 17 13 | 0 44 | 5 54 | 1 54 | 1 13 | 12 43 | 15 33 | 15 33 | 1 40 | | n.a. |
| T 18 | 18 47 | 1n33 | 3 8 | 8 29 | 3 27 | 9 0 | 1 0 | 24 36 | 1 9 | 14 13 | 1 26 | 9 34 | 2 9 | 17 13 | 0 44 | 5 54 | 1 54 | 1 14 | 12 43 | 15 34 | 15 34 | 1 37 | | n.a. |
| W19 | 19 1 | 7 0 | 3 53 | 8 55 | 3 21 | 8 50 | 1 10 | 24 39 | 1 9 | 14 11 | 1 25 | 9 32 | 2 9 | 17 13 | 0 44 | 5 55 | 1 55 | 1 14 | 12 43 | 15 36 | 15 35 | 1 33 | | n.a. |
| T 20 | 19 15 | 12 17 | 4 28 | 9 22 | 3 15 | 8 41 | 1 20 | 24 41 | 1 9 | 14 10 | 1 25 | 9 31 | 2 10 | 17 13 | 0 44 | 5 56 | 1 55 | 1 14 | 12 43 | 15 38 | 15 36 | 1 30 | | n.a. |
| F 21 | 19 29 | 17 10 | 4 51 | 9 51 | 3 8 | 8 33 | 1 30 | 24 43 | 1 9 | 14 8 | 1 25 | 9 30 | 2 10 | 17 13 | 0 44 | 5 56 | 1 55 | 1 15 | 12 43 | 15 42 | 15 37 | 1 27 | | n.a. |
| S 22 | 19 42 | 21 25 | 5 0 | 10 21 | 3 1 | 8 26 | 1 39 | 24 45 | 1 9 | 14 6 | 1 25 | 9 29 | 2 10 | 17 13 | 0 44 | 5 57 | 1 55 | 1 15 | 12 43 | 15 46 | 15 38 | 1 23 | | n.a. |
| S 23 | 19 55 | 24 46 | 4 55 | 10 53 | 2 52 | 8 21 | 1 48 | 24 46 | 1 9 | 14 4 | 1 25 | 9 28 | 2 10 | 17 13 | 0 44 | 5 58 | 1 55 | 1 15 | 12 43 | 15 49 | 15 39 | 1 20 | | n.a. |
| M24 | 20 8 | 26 54 | 4 35 | 11 26 | 2 44 | 8 16 | 1 57 | 24 48 | 1 9 | 14 3 | 1 24 | 9 27 | 2 11 | 17 13 | 0 44 | 5 58 | 1 55 | 1 16 | 12 44 | 15 53 | 15 40 | 1 17 | | n.a. |
| T 25 | 20 21 | 27 35 | 4 0 | 12 0 | 2 35 | 8 13 | 2 5 | 24 49 | 1 9 | 14 1 | 1 24 | 9 26 | 2 11 | 17 13 | 0 44 | 5 59 | 1 55 | 1 16 | 12 44 | 15 56 | 15 41 | 1 14 | | n.a. |
| W26 | 20 33 | 26 40 | 3 11 | 12 36 | 2 25 | 8 11 | 2 12 | 24 50 | 1 9 | 13 59 | 1 24 | 9 25 | 2 11 | 17 13 | 0 44 | 6 0 | 1 55 | 1 16 | 12 44 | 15 59 | 15 42 | 1 10 | | n.a. |
| T 27 | 20 45 | 24 10 | 2 11 | 13 12 | 2 15 | 8 10 | 2 20 | 24 51 | 1 9 | 13 57 | 1 24 | 9 24 | 2 11 | 17 13 | 0 44 | 6 0 | 1 55 | 1 17 | 12 44 | 16 0 | 15 43 | 1 7 | | n.a. |
| F 28 | 20 56 | 20 16 | 1 2 | 13 50 | 2 4 | 8 10 | 2 27 | 24 51 | 1 10 | 13 55 | 1 23 | 9 23 | 2 12 | 17 13 | 0 44 | 6 1 | 1 55 | 1 17 | 12 44 | 16 1 | 15 44 | 1 4 | | n.a. |
| S 29 | 21 7 | 15 12 | 0s11 | 14 28 | 1 54 | 8 10 | 2 33 | 24 52 | 1 10 | 13 52 | 1 23 | 9 22 | 2 12 | 17 14 | 0 44 | 6 2 | 1 55 | 1 17 | 12 44 | 16 1 | 15 45 | 1 0 | | n.a. |
| S 30 | 21 18 | 9 18 | 1 24 | 15 7 | 1 43 | 8 12 | 2 40 | 24 52 | 1 10 | 13 50 | 1 23 | 9 21 | 2 12 | 17 14 | 0 44 | 6 2 | 1 55 | 1 18 | 12 44 | 16 1 | 15 46 | 0 57 | | n.a. |
| M31 | 21n28 | 2n53 | 2s33 | 15n46 | 1s31 | 8n15 | 2s45 | 24n52 | 1n10 | 13n48 | 1n23 | 9s20 | 2s13 | 17s14 | 0s44 | 6n 3 | 1s55 | 1n18 | 12s44 | 16s 1 | 15s47 | 0s54 | | n.a. |

Julian Day Number = 1686479.5, Delta T = 03h12m44s
Ecliptic obliquity = 23°42'31, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°23'09, Lahiri = - 5°16'09 Julian Calendar 1 May 96 BCE == Greg. Calendar 29 Apr. 096 BCE

The year -95 astronomical counting style corresponds to year 096 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 96 BCE
# geocentric

## JUNE 96 BCE (-95) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 25 58 | 6♊30'45 | 1♎10 | 19♉ 9 | 28♈15 | 0♋52 | 27♌31 | 11♓38 | 14°R57 | 19♈48 | 4♉57 | 16°R39 | 17♒23 | 21♓19 | n.a. | T 1 |
| W 2 | 16 29 55 | 7°27'51 | 15°31 | 20°55 | 28°41 | 1°29 | 27°37 | 11°40 | 14♒57 | 19°50 | 4°58 | 16♒34 | 17°20 | 21°26 | n.a. | W 2 |
| T 3 | 16 33 51 | 8°24'56 | 29°54 | 22°43 | 29° 9 | 2° 7 | 27°44 | 11°43 | 14°57 | 19°52 | 4°59 | 16°27 | 17°17 | 21°33 | n.a. | T 3 |
| F 4 | 16 37 48 | 9°22'02 | 14♏13 | 24°35 | 29°38 | 2°45 | 27°50 | 11°45 | 14°56 | 19°53 | 5° 0 | 16°19 | 17°14 | 21°39 | n.a. | F 4 |
| S 5 | 16 41 44 | 10°19'07 | 28°24 | 26°29 | 0♉ 9 | 3°23 | 27°57 | 11°47 | 14°55 | 19°55 | 5° 1 | 16° 9 | 17°10 | 21°46 | n.a. | S 5 |
| S 6 | 16 45 41 | 11°16'13 | 12♐21 | 28°26 | 0°41 | 4° 0 | 28° 3 | 11°49 | 14°55 | 19°57 | 5° 2 | 15°58 | 17° 7 | 21°53 | n.a. | S 6 |
| M 7 | 16 49 37 | 12°13'18 | 25°59 | 0♊25 | 1°14 | 4°38 | 28°10 | 11°52 | 14°54 | 19°58 | 5° 3 | 15°50 | 17° 4 | 21°59 | n.a. | M 7 |
| T 8 | 16 53 34 | 13°10'24 | 9♑16 | 2°26 | 1°49 | 5°16 | 28°17 | 11°54 | 14°53 | 20° 0 | 5° 5 | 15°42 | 17° 1 | 22° 6 | n.a. | T 8 |
| W 9 | 16 57 31 | 14° 7'30 | 22°12 | 4°29 | 2°25 | 5°54 | 28°24 | 11°55 | 14°53 | 20° 1 | 5° 6 | 15°38 | 16°58 | 22°13 | n.a. | W 9 |
| T 10 | 17 1 27 | 15° 4'37 | 4♒46 | 6°34 | 3° 2 | 6°31 | 28°31 | 11°57 | 14°52 | 20° 3 | 5° 7 | 15°35 | 16°54 | 22°19 | n.a. | T 10 |
| F 11 | 17 5 24 | 16° 1'44 | 17° 3 | 8°40 | 3°40 | 7° 9 | 28°39 | 11°59 | 14°51 | 20° 4 | 5° 8 | 15°D35 | 16°51 | 22°26 | n.a. | F 11 |
| S 12 | 17 9 20 | 16°58'52 | 29° 6 | 10°48 | 4°20 | 7°47 | 28°46 | 12° 1 | 14°50 | 20° 5 | 5° 9 | 15°35 | 16°48 | 22°33 | n.a. | S 12 |
| S 13 | 17 13 17 | 17°56'00 | 11♓ 0 | 12°56 | 5° 0 | 8°25 | 28°54 | 12° 2 | 14°49 | 20° 7 | 5°10 | 15°36 | 16°45 | 22°39 | n.a. | S 13 |
| M14 | 17 17 13 | 18°53'09 | 22°50 | 15° 5 | 5°42 | 9° 3 | 29° 2 | 12° 3 | 14°48 | 20° 8 | 5°11 | 15°R36 | 16°42 | 22°46 | n.a. | M14 |
| T 15 | 17 21 10 | 19°50'18 | 4♈42 | 17°13 | 6°24 | 9°40 | 29° 9 | 12° 5 | 14°47 | 20°10 | 5°12 | 15°35 | 16°39 | 22°53 | n.a. | T 15 |
| W16 | 17 25 6 | 20°47'28 | 16°40 | 19°22 | 7° 8 | 10°18 | 29°17 | 12° 6 | 14°46 | 20°11 | 5°13 | 15°32 | 16°35 | 22°59 | n.a. | W16 |
| T 17 | 17 29 3 | 21°44'39 | 28°48 | 21°31 | 7°52 | 10°56 | 29°25 | 12° 7 | 14°45 | 20°12 | 5°14 | 15°26 | 16°32 | 23° 6 | n.a. | T 17 |
| F 18 | 17 33 0 | 22°41'51 | 11♉11 | 23°39 | 8°38 | 11°34 | 29°34 | 12° 8 | 14°44 | 20°13 | 5°15 | 15°19 | 16°29 | 23°13 | n.a. | F 18 |
| S 19 | 17 36 56 | 23°39'04 | 23°51 | 25°46 | 9°24 | 12°12 | 29°42 | 12° 9 | 14°42 | 20°15 | 5°16 | 15°11 | 16°26 | 23°19 | n.a. | S 19 |
| S 20 | 17 40 53 | 24°36'17 | 6♊49 | 27°52 | 10°11 | 12°50 | 29°50 | 12°10 | 14°41 | 20°16 | 5°17 | 15° 2 | 16°23 | 23°26 | n.a. | S 20 |
| M21 | 17 44 49 | 25°33'31 | 20° 5 | 29°57 | 10°58 | 13°27 | 29°59 | 12°10 | 14°40 | 20°17 | 5°18 | 14°54 | 16°20 | 23°33 | n.a. | M21 |
| T 22 | 17 48 46 | 26°30'46 | 3♋37 | 2♋ 1 | 11°47 | 14° 5 | 0♏ 8 | 12°11 | 14°39 | 20°18 | 5°19 | 14°47 | 16°16 | 23°39 | n.a. | T 22 |
| W23 | 17 52 42 | 27°28'01 | 17°23 | 4° 3 | 12°36 | 14°43 | 0°16 | 12°11 | 14°37 | 20°19 | 5°20 | 14°42 | 16°13 | 23°46 | n.a. | W23 |
| T 24 | 17 56 39 | 28°25'17 | 1♌20 | 6° 5 | 13°26 | 15°21 | 0°25 | 12°12 | 14°36 | 20°20 | 5°21 | 14°39 | 16°10 | 23°53 | n.a. | T 24 |
| F 25 | 18 0 36 | 29°22'33 | 15°24 | 8° 4 | 14°16 | 15°59 | 0°34 | 12°12 | 14°34 | 20°21 | 5°22 | 14°D38 | 16° 7 | 24° 0 | n.a. | F 25 |
| S 26 | 18 4 32 | 0♋19'50 | 29°32 | 10° 2 | 15° 8 | 16°37 | 0°43 | 12°12 | 14°33 | 20°23 | 5°22 | 14°39 | 16° 4 | 24° 6 | n.a. | S 26 |
| S 27 | 18 8 29 | 1°17'08 | 13♍43 | 11°58 | 16° 0 | 17°15 | 0°53 | 12°R12 | 14°31 | 20°24 | 5°23 | 14°40 | 16° 0 | 24°13 | n.a. | S 27 |
| M28 | 18 12 25 | 2°14'26 | 27°55 | 13°53 | 16°52 | 17°53 | 1° 2 | 12°12 | 14°30 | 20°24 | 5°24 | 14°R41 | 15°57 | 24°20 | n.a. | M28 |
| T 29 | 18 16 22 | 3°11'44 | 12♎ 5 | 15°46 | 17°45 | 18°31 | 1°11 | 12°12 | 14°28 | 20°25 | 5°25 | 14°41 | 15°54 | 24°26 | n.a. | T 29 |
| W30 | 18 20 18 | 4♋ 9'03 | 26♎12 | 17♋37 | 18♉39 | 19♋ 9 | 1♍21 | 12♓12 | 14♒27 | 20♈26 | 5♉26 | 14♒39 | 15♒51 | 24♓33 | n.a. | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21n38 | 3s43 | 3s33 | 16n26 | 1s20 | 8n19 | 2s51 | 24n52 | 1n10 | 13n46 | 1n23 | 9s19 | 2s13 | 17s14 | 0s44 | 6n 4 | 1s55 | 1n18 | 12s44 | 16s 1 | 15s48 | 0s50 | | n.a. |
| W 2 | 21 48 | 10 9 | 4 20 | 17 6 | 1 8 | 8 23 | 2 56 | 24 52 | 1 10 | 13 43 | 1 22 | 9 19 | 2 13 | 17 14 | 0 44 | 6 4 | 1 55 | 1 18 | 12 44 | 16 3 | 15 49 | 0 47 | | n.a. |
| T 3 | 21 57 | 16 5 | 4 50 | 17 45 | 0 56 | 8 28 | 3 1 | 24 52 | 1 10 | 13 41 | 1 22 | 9 18 | 2 13 | 17 14 | 0 44 | 6 5 | 1 55 | 1 19 | 12 44 | 16 5 | 15 50 | 0 44 | | n.a. |
| F 4 | 22 6 | 21 5 | 5 3 | 18 25 | 0 44 | 8 34 | 3 6 | 24 51 | 1 10 | 13 38 | 1 22 | 9 17 | 2 14 | 17 14 | 0 44 | 6 5 | 1 55 | 1 19 | 12 45 | 16 8 | 15 51 | 0 40 | | n.a. |
| S 5 | 22 15 | 24 50 | 4 56 | 19 4 | 0 32 | 8 41 | 3 10 | 24 50 | 1 10 | 13 36 | 1 22 | 9 17 | 2 14 | 17 15 | 0 44 | 6 6 | 1 55 | 1 19 | 12 45 | 16 11 | 15 52 | 0 37 | | n.a. |
| S 6 | 22 23 | 27 1 | 4 32 | 19 42 | 0 21 | 8 49 | 3 14 | 24 49 | 1 10 | 13 33 | 1 22 | 9 16 | 2 14 | 17 15 | 0 44 | 6 6 | 1 55 | 1 20 | 12 45 | 16 14 | 15 53 | 0 34 | | n.a. |
| M 7 | 22 31 | 27 31 | 3 52 | 20 19 | 0 9 | 8 57 | 3 18 | 24 48 | 1 10 | 13 31 | 1 21 | 9 16 | 2 15 | 17 15 | 0 44 | 6 7 | 1 55 | 1 20 | 12 45 | 16 16 | 15 54 | 0 30 | | n.a. |
| T 8 | 22 38 | 26 23 | 3 1 | 20 55 | 0n 2 | 9 6 | 3 21 | 24 46 | 1 10 | 13 28 | 1 21 | 9 15 | 2 15 | 17 15 | 0 44 | 6 7 | 1 55 | 1 20 | 12 45 | 16 18 | 15 55 | 0 27 | | n.a. |
| W 9 | 22 45 | 23 51 | 2 2 | 21 30 | 0 13 | 9 15 | 3 24 | 24 45 | 1 10 | 13 26 | 1 21 | 9 15 | 2 15 | 17 16 | 0 44 | 6 8 | 1 55 | 1 20 | 12 45 | 16 20 | 15 56 | 0 24 | | n.a. |
| T 10 | 22 52 | 20 13 | 0 58 | 22 3 | 0 24 | 9 25 | 3 27 | 24 43 | 1 10 | 13 23 | 1 21 | 9 14 | 2 15 | 17 16 | 0 44 | 6 8 | 1 55 | 1 20 | 12 45 | 16 21 | 15 57 | 0 20 | | n.a. |
| F 11 | 22 58 | 15 46 | 0n 8 | 22 34 | 0 34 | 9 36 | 3 30 | 24 41 | 1 10 | 13 20 | 1 21 | 9 14 | 2 16 | 17 16 | 0 44 | 6 9 | 1 56 | 1 21 | 12 45 | 16 21 | 15 58 | 0 17 | | n.a. |
| S 12 | 23 4 | 10 48 | 1 12 | 23 3 | 0 44 | 9 47 | 3 32 | 24 39 | 1 11 | 13 17 | 1 20 | 9 13 | 2 16 | 17 17 | 0 44 | 6 9 | 1 56 | 1 21 | 12 46 | 16 21 | 15 59 | 0 14 | | n.a. |
| S 13 | 23 9 | 5 29 | 2 12 | 23 29 | 0 53 | 9 59 | 3 34 | 24 37 | 1 11 | 13 14 | 1 20 | 9 13 | 2 16 | 17 17 | 0 45 | 6 10 | 1 56 | 1 21 | 12 46 | 16 20 | 16 0 | 0 10 | | n.a. |
| M14 | 23 14 | 0 2 | 3 6 | 23 53 | 1 2 | 10 11 | 3 36 | 24 34 | 1 11 | 13 11 | 1 20 | 9 13 | 2 17 | 17 17 | 0 45 | 6 10 | 1 56 | 1 21 | 12 46 | 16 20 | 16 0 | 0 7 | | n.a. |
| T 15 | 23 19 | 5n26 | 3 52 | 24 15 | 1 10 | 10 23 | 3 37 | 24 32 | 1 11 | 13 8 | 1 20 | 9 13 | 2 17 | 17 18 | 0 45 | 6 11 | 1 56 | 1 21 | 12 46 | 16 21 | 16 1 | 0 4 | | n.a. |
| W16 | 23 23 | 10 45 | 4 29 | 24 33 | 1 17 | 10 36 | 3 39 | 24 29 | 1 11 | 13 5 | 1 20 | 9 12 | 2 17 | 17 18 | 0 45 | 6 11 | 1 56 | 1 22 | 12 46 | 16 22 | 16 2 | 0 0 | | n.a. |
| T 17 | 23 27 | 15 44 | 4 54 | 24 49 | 1 24 | 10 49 | 3 40 | 24 26 | 1 11 | 13 2 | 1 19 | 9 12 | 2 17 | 17 18 | 0 45 | 6 12 | 1 56 | 1 22 | 12 46 | 16 23 | 16 3 | 0n 3 | | n.a. |
| F 18 | 23 30 | 20 11 | 5 6 | 25 3 | 1 30 | 11 3 | 3 41 | 24 22 | 1 11 | 12 59 | 1 19 | 9 12 | 2 18 | 17 19 | 0 45 | 6 12 | 1 56 | 1 22 | 12 47 | 16 25 | 16 4 | 0 6 | | n.a. |
| S 19 | 23 33 | 23 50 | 5 3 | 25 13 | 1 35 | 11 17 | 3 42 | 24 19 | 1 11 | 12 56 | 1 19 | 9 12 | 2 18 | 17 19 | 0 45 | 6 13 | 1 56 | 1 22 | 12 47 | 16 28 | 16 5 | 0 9 | | n.a. |
| S 20 | 23 36 | 26 22 | 4 45 | 25 21 | 1 39 | 11 31 | 3 42 | 24 15 | 1 11 | 12 53 | 1 19 | 9 12 | 2 18 | 17 19 | 0 45 | 6 13 | 1 56 | 1 22 | 12 47 | 16 31 | 16 6 | 0 13 | | n.a. |
| M21 | 23 38 | 27 30 | 4 11 | 25 25 | 1 43 | 11 45 | 3 43 | 24 12 | 1 11 | 12 50 | 1 19 | 9 12 | 2 19 | 17 20 | 0 45 | 6 13 | 1 56 | 1 22 | 12 47 | 16 33 | 16 7 | 0 16 | | n.a. |
| T 22 | 23 40 | 27 2 | 3 23 | 25 27 | 1 46 | 12 0 | 3 43 | 24 8 | 1 11 | 12 47 | 1 19 | 9 12 | 2 19 | 17 20 | 0 45 | 6 14 | 1 56 | 1 23 | 12 47 | 16 35 | 16 8 | 0 19 | | n.a. |
| W23 | 23 41 | 24 54 | 2 22 | 25 27 | 1 48 | 12 15 | 3 43 | 24 3 | 1 11 | 12 43 | 1 18 | 9 12 | 2 19 | 17 21 | 0 45 | 6 14 | 1 56 | 1 23 | 12 47 | 16 36 | 16 9 | 0 23 | | n.a. |
| T 24 | 23 42 | 21 15 | 1 11 | 25 23 | 1 50 | 12 30 | 3 43 | 23 59 | 1 11 | 12 40 | 1 18 | 9 12 | 2 19 | 17 21 | 0 45 | 6 14 | 1 56 | 1 23 | 12 48 | 16 37 | 16 10 | 0 26 | | n.a. |
| F 25 | 23 42 | 16 20 | 0s 4 | 25 18 | 1 50 | 12 45 | 3 43 | 23 55 | 1 11 | 12 37 | 1 18 | 9 12 | 2 20 | 17 22 | 0 45 | 6 15 | 1 56 | 1 23 | 12 48 | 16 37 | 16 11 | 0 29 | | n.a. |
| S 26 | 23 42 | 10 31 | 1 20 | 25 10 | 1 51 | 13 1 | 3 42 | 23 50 | 1 11 | 12 33 | 1 18 | 9 13 | 2 20 | 17 22 | 0 45 | 6 15 | 1 56 | 1 23 | 12 48 | 16 37 | 16 12 | 0 33 | | n.a. |
| S 27 | 23 42 | 4 9 | 2 31 | 25 0 | 1 50 | 13 16 | 3 42 | 23 45 | 1 11 | 12 30 | 1 18 | 9 13 | 2 20 | 17 23 | 0 45 | 6 15 | 1 56 | 1 23 | 12 48 | 16 37 | 16 13 | 0 36 | | n.a. |
| M28 | 23 41 | 2s25 | 3 33 | 24 47 | 1 49 | 13 32 | 3 41 | 23 40 | 1 11 | 12 26 | 1 18 | 9 13 | 2 21 | 17 23 | 0 45 | 6 16 | 1 57 | 1 23 | 12 48 | 16 37 | 16 14 | 0 39 | | n.a. |
| T 29 | 23 40 | 8 50 | 4 22 | 24 33 | 1 48 | 13 48 | 3 40 | 23 35 | 1 11 | 12 23 | 1 17 | 9 13 | 2 21 | 17 24 | 0 45 | 6 16 | 1 57 | 1 23 | 12 49 | 16 37 | 16 15 | 0 43 | | n.a. |
| W30 | 23n39 | 14s47 | 4s54 | 24n17 | 1n46 | 14n 4 | 3s39 | 23n29 | 1n11 | 12n19 | 1n17 | 9s14 | 2s21 | 17s24 | 0s45 | 6n16 | 1s57 | 1n23 | 12s49 | 16s37 | 16s16 | 0n46 | | n.a. |

Julian Day Number = 1686510.5, Delta T = 03h12m43s
Ecliptic obliquity = 23°42'30, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°23'05, Lahiri = - 5°16'05 Julian Calendar 1 June 96 BCE == Greg. Calendar 30 May 096 BCE

The year -95 astronomical counting style corresponds to year 096 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 96 BCE
# geocentric

## JULY 96 BCE (-95) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 24 15 | 5♋ 6'23 | 10♏14 | 19♋27 | 19♉33 | 19♋47 | 1♍30 | 12°R12 | 14°R25 | 20♈27 | 5♉26 | 14°R35 | 15♒48 | 24♓40 | n.a. | T 1 |
| F 2 | 18 28 11 | 6° 3'44 | 24° 8 | 21°15 | 20°27 | 20°24 | 1°40 | 12♓11 | 14♒23 | 20°28 | 5°27 | 14♒30 | 15°45 | 24°46 | n.a. | F 2 |
| S 3 | 18 32 8 | 7° 1'05 | 7♐52 | 23° 2 | 21°22 | 21° 2 | 1°50 | 12°11 | 14°22 | 20°29 | 5°28 | 14°25 | 15°41 | 24°53 | n.a. | S 3 |
| S 4 | 18 36 5 | 7°58'27 | 21°23 | 24°46 | 22°18 | 21°40 | 2° 0 | 12°10 | 14°20 | 20°30 | 5°29 | 14°19 | 15°38 | 25° 0 | n.a. | S 4 |
| M 5 | 18 40 1 | 8°55'51 | 4♑40 | 26°30 | 23°14 | 22°18 | 2°10 | 12° 9 | 14°18 | 20°30 | 5°29 | 14°14 | 15°35 | 25° 6 | n.a. | M 5 |
| T 6 | 18 43 58 | 9°53'15 | 17°39 | 28°11 | 24°11 | 22°56 | 2°20 | 12° 8 | 14°16 | 20°31 | 5°30 | 14°10 | 15°32 | 25°13 | n.a. | T 6 |
| W 7 | 18 47 54 | 10°50'41 | 0♒22 | 29°51 | 25° 8 | 23°34 | 2°30 | 12° 7 | 14°14 | 20°32 | 5°31 | 14° 7 | 15°29 | 25°20 | n.a. | W 7 |
| T 8 | 18 51 51 | 11°48'07 | 12°48 | 1♌29 | 26° 6 | 24°12 | 2°40 | 12° 6 | 14°12 | 20°33 | 5°31 | 14°D 6 | 15°26 | 25°26 | n.a. | T 8 |
| F 9 | 18 55 47 | 12°45'35 | 25° 1 | 3° 6 | 27° 4 | 24°51 | 2°50 | 12° 5 | 14°10 | 20°33 | 5°32 | 14° 7 | 15°22 | 25°33 | n.a. | F 9 |
| S 10 | 18 59 44 | 13°43'05 | 7♓ 2 | 4°41 | 28° 2 | 25°29 | 3° 1 | 12° 4 | 14° 9 | 20°34 | 5°33 | 14° 8 | 15°19 | 25°40 | n.a. | S 10 |
| S 11 | 19 3 40 | 14°40'35 | 18°55 | 6°14 | 29° 1 | 26° 7 | 3°11 | 12° 2 | 14° 7 | 20°34 | 5°33 | 14°10 | 15°16 | 25°46 | n.a. | S 11 |
| M12 | 19 7 37 | 15°38'07 | 0♈46 | 7°46 | 29°59 | 26°45 | 3°22 | 12° 1 | 14° 5 | 20°35 | 5°34 | 14°11 | 15°13 | 25°53 | n.a. | M12 |
| T 13 | 19 11 34 | 16°35'41 | 12°38 | 9°17 | 1♊ 0 | 27°23 | 3°32 | 11°59 | 14° 3 | 20°35 | 5°34 | 14°R12 | 15°10 | 26° 0 | n.a. | T 13 |
| W14 | 19 15 30 | 17°33'16 | 24°36 | 10°45 | 2° 0 | 28° 1 | 3°43 | 11°58 | 14° 0 | 20°36 | 5°35 | 14°12 | 15° 6 | 26° 6 | n.a. | W14 |
| T 15 | 19 19 27 | 18°30'53 | 6♉45 | 12°12 | 3° 0 | 28°39 | 3°54 | 11°56 | 13°58 | 20°36 | 5°35 | 14°11 | 15° 3 | 26°13 | n.a. | T 15 |
| F 16 | 19 23 23 | 19°28'32 | 19°10 | 13°38 | 4° 0 | 29°17 | 4° 5 | 11°54 | 13°56 | 20°37 | 5°36 | 14° 9 | 15° 0 | 26°20 | n.a. | F 16 |
| S 17 | 19 27 20 | 20°26'12 | 1♊54 | 15° 1 | 5° 1 | 29°55 | 4°16 | 11°52 | 13°54 | 20°37 | 5°36 | 14° 5 | 14°57 | 26°26 | n.a. | S 17 |
| S 18 | 19 31 16 | 21°23'54 | 15° 0 | 16°23 | 6° 3 | 0♌34 | 4°27 | 11°50 | 13°52 | 20°37 | 5°37 | 14° 2 | 14°54 | 26°33 | n.a. | S 18 |
| M19 | 19 35 13 | 22°21'38 | 28°27 | 17°43 | 7° 4 | 1°12 | 4°38 | 11°48 | 13°50 | 20°38 | 5°37 | 13°59 | 14°51 | 26°40 | n.a. | M19 |
| T 20 | 19 39 10 | 23°19'23 | 12♋16 | 19° 2 | 8° 6 | 1°50 | 4°49 | 11°46 | 13°48 | 20°38 | 5°38 | 13°56 | 14°47 | 26°46 | n.a. | T 20 |
| W21 | 19 43 6 | 24°17'10 | 26°23 | 20°18 | 9° 9 | 2°28 | 5° 0 | 11°43 | 13°45 | 20°38 | 5°38 | 13°55 | 14°44 | 26°53 | n.a. | W21 |
| T 22 | 19 47 3 | 25°14'58 | 10♌45 | 21°33 | 10°11 | 3° 6 | 5°12 | 11°41 | 13°43 | 20°38 | 5°39 | 13°D54 | 14°41 | 27° 0 | n.a. | T 22 |
| F 23 | 19 50 59 | 26°12'48 | 25°15 | 22°46 | 11°14 | 3°45 | 5°23 | 11°38 | 13°41 | 20°39 | 5°39 | 13°54 | 14°38 | 27° 7 | n.a. | F 23 |
| S 24 | 19 54 56 | 27°10'39 | 9♍49 | 23°56 | 12°17 | 4°23 | 5°34 | 11°36 | 13°39 | 20°39 | 5°39 | 13°55 | 14°35 | 27°13 | n.a. | S 24 |
| S 25 | 19 58 52 | 28° 8'31 | 24°21 | 25° 5 | 13°20 | 5° 1 | 5°46 | 11°33 | 13°36 | 20°39 | 5°40 | 13°56 | 14°32 | 27°20 | n.a. | S 25 |
| M26 | 20 2 49 | 29° 6'25 | 8♎46 | 26°11 | 14°24 | 5°40 | 5°57 | 11°30 | 13°34 | 20°39 | 5°40 | 13°57 | 14°28 | 27°27 | n.a. | M26 |
| T 27 | 20 6 45 | 0♌ 4'20 | 23° 2 | 27°15 | 15°28 | 6°18 | 6° 9 | 11°27 | 13°32 | 20°39 | 5°40 | 13°58 | 14°25 | 27°33 | n.a. | T 27 |
| W28 | 20 10 42 | 1° 2'16 | 7♏ 5 | 28°17 | 16°32 | 6°56 | 6°21 | 11°24 | 13°29 | 20°R39 | 5°40 | 13°R58 | 14°22 | 27°40 | n.a. | W28 |
| T 29 | 20 14 39 | 2° 0'14 | 20°54 | 29°16 | 17°36 | 7°35 | 6°32 | 11°21 | 13°27 | 20°39 | 5°41 | 13°57 | 14°19 | 27°47 | n.a. | T 29 |
| F 30 | 20 18 35 | 2°58'13 | 4♐30 | 0♍12 | 18°41 | 8°13 | 6°44 | 11°18 | 13°25 | 20°39 | 5°41 | 13°56 | 14°16 | 27°53 | n.a. | F 30 |
| S 31 | 20 22 32 | 3♌56'14 | 17♐51 | 1♍ 5 | 19♊46 | 8♌51 | 6♍56 | 11♓15 | 13♒22 | 20♈39 | 5♉41 | 13♒55 | 14♒12 | 28♓ 0 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 23n36 | 19s56 | 5s 9 | 23n59 | 1n43 | 14n19 | 3s38 | 23n24 | 1n11 | 12n16 | 1n17 | 9s14 | 2s21 | 17s25 | 0s45 | 6n17 | 1s57 | 1n23 | 12s49 | 16s38 | 16s17 | 0n49 | | | n.a. |
| F 2 | 23 34 | 23 57 | 5 6 | 23 39 | 1 40 | 14 35 | 3 36 | 23 18 | 1 11 | 12 12 | 1 17 | 9 15 | 2 22 | 17 25 | 0 45 | 6 17 | 1 57 | 1 23 | 12 49 | 16 40 | 16 18 | 0 52 | | | n.a. |
| S 3 | 23 31 | 26 33 | 4 45 | 23 18 | 1 36 | 14 51 | 3 35 | 23 12 | 1 11 | 12 8 | 1 17 | 9 15 | 2 22 | 17 26 | 0 45 | 6 17 | 1 57 | 1 23 | 12 49 | 16 42 | 16 19 | 0 56 | | | n.a. |
| S 4 | 23 28 | 27 33 | 4 8 | 22 55 | 1 32 | 15 7 | 3 33 | 23 6 | 1 11 | 12 4 | 1 17 | 9 16 | 2 22 | 17 26 | 0 45 | 6 17 | 1 57 | 1 24 | 12 50 | 16 43 | 16 20 | 0 59 | | | n.a. |
| M 5 | 23 24 | 26 56 | 3 18 | 22 31 | 1 27 | 15 23 | 3 31 | 23 0 | 1 11 | 12 1 | 1 17 | 9 16 | 2 23 | 17 27 | 0 45 | 6 18 | 1 57 | 1 24 | 12 50 | 16 45 | 16 21 | 1 2 | | | n.a. |
| T 6 | 23 20 | 24 50 | 2 19 | 22 6 | 1 22 | 15 39 | 3 30 | 22 54 | 1 11 | 11 57 | 1 16 | 9 17 | 2 23 | 17 27 | 0 45 | 6 18 | 1 57 | 1 24 | 12 50 | 16 46 | 16 22 | 1 6 | | | n.a. |
| W 7 | 23 16 | 21 31 | 1 14 | 21 40 | 1 17 | 15 54 | 3 28 | 22 47 | 1 11 | 11 53 | 1 16 | 9 17 | 2 23 | 17 28 | 0 45 | 6 18 | 1 57 | 1 24 | 12 50 | 16 47 | 16 23 | 1 9 | | | n.a. |
| T 8 | 23 11 | 17 16 | 0 7 | 21 12 | 1 11 | 16 10 | 3 26 | 22 40 | 1 11 | 11 49 | 1 16 | 9 18 | 2 23 | 17 28 | 0 45 | 6 18 | 1 57 | 1 24 | 12 50 | 16 47 | 16 23 | 1 12 | | | n.a. |
| F 9 | 23 5 | 12 24 | 0n59 | 20 44 | 1 5 | 16 25 | 3 23 | 22 33 | 1 11 | 11 45 | 1 16 | 9 19 | 2 24 | 17 29 | 0 45 | 6 18 | 1 57 | 1 24 | 12 51 | 16 47 | 16 24 | 1 15 | | | n.a. |
| S 10 | 23 0 | 7 8 | 2 2 | 20 15 | 0 58 | 16 41 | 3 21 | 22 26 | 1 11 | 11 41 | 1 16 | 9 20 | 2 24 | 17 30 | 0 45 | 6 19 | 1 57 | 1 24 | 12 51 | 16 46 | 16 25 | 1 19 | | | n.a. |
| S 11 | 22 53 | 1 41 | 2 59 | 19 45 | 0 51 | 16 56 | 3 19 | 22 19 | 1 10 | 11 37 | 1 16 | 9 20 | 2 24 | 17 30 | 0 45 | 6 19 | 1 57 | 1 24 | 12 51 | 16 46 | 16 26 | 1 22 | | | n.a. |
| M12 | 22 47 | 3n48 | 3 48 | 19 15 | 0 44 | 17 11 | 3 16 | 22 12 | 1 10 | 11 34 | 1 16 | 9 21 | 2 24 | 17 31 | 0 45 | 6 19 | 1 57 | 1 24 | 12 51 | 16 45 | 16 27 | 1 25 | | | n.a. |
| T 13 | 22 40 | 9 9 | 4 28 | 18 44 | 0 37 | 17 26 | 3 13 | 22 4 | 1 10 | 11 29 | 1 15 | 9 22 | 2 25 | 17 31 | 0 45 | 6 19 | 1 57 | 1 24 | 12 51 | 16 45 | 16 28 | 1 29 | | | n.a. |
| W14 | 22 33 | 14 13 | 4 56 | 18 12 | 0 29 | 17 41 | 3 11 | 21 56 | 1 10 | 11 25 | 1 15 | 9 23 | 2 25 | 17 32 | 0 45 | 6 19 | 1 58 | 1 24 | 12 52 | 16 45 | 16 29 | 1 32 | | | n.a. |
| T 15 | 22 25 | 18 49 | 5 12 | 17 40 | 0 21 | 17 55 | 3 8 | 21 48 | 1 10 | 11 21 | 1 15 | 9 24 | 2 25 | 17 33 | 0 45 | 6 19 | 1 58 | 1 23 | 12 52 | 16 46 | 16 30 | 1 35 | | | n.a. |
| F 16 | 22 17 | 22 43 | 5 13 | 17 8 | 0 13 | 18 9 | 3 5 | 21 40 | 1 10 | 11 17 | 1 15 | 9 25 | 2 26 | 17 33 | 0 45 | 6 19 | 1 58 | 1 23 | 12 52 | 16 46 | 16 31 | 1 39 | | | n.a. |
| S 17 | 22 8 | 25 39 | 4 59 | 16 35 | 0 4 | 18 23 | 3 2 | 21 32 | 1 10 | 11 13 | 1 15 | 9 26 | 2 26 | 17 34 | 0 45 | 6 19 | 1 58 | 1 23 | 12 52 | 16 47 | 16 32 | 1 42 | | | n.a. |
| S 18 | 21 59 | 27 19 | 4 30 | 16 2 | 0s 4 | 18 37 | 2 59 | 21 24 | 1 10 | 11 9 | 1 15 | 9 27 | 2 26 | 17 35 | 0 45 | 6 19 | 1 58 | 1 23 | 12 53 | 16 48 | 16 33 | 1 45 | | | n.a. |
| M19 | 21 50 | 27 27 | 3 45 | 15 29 | 0 13 | 18 51 | 2 56 | 21 15 | 1 10 | 11 5 | 1 15 | 9 28 | 2 26 | 17 35 | 0 46 | 6 20 | 1 58 | 1 23 | 12 53 | 16 49 | 16 34 | 1 48 | | | n.a. |
| T 20 | 21 40 | 25 53 | 2 46 | 14 56 | 0 22 | 19 4 | 2 53 | 21 7 | 1 10 | 11 0 | 1 15 | 9 29 | 2 27 | 17 36 | 0 46 | 6 20 | 1 58 | 1 23 | 12 53 | 16 50 | 16 35 | 1 52 | | | n.a. |
| W21 | 21 30 | 22 40 | 1 35 | 14 23 | 0 32 | 19 17 | 2 50 | 20 58 | 1 10 | 10 56 | 1 15 | 9 30 | 2 27 | 17 37 | 0 46 | 6 20 | 1 58 | 1 23 | 12 53 | 16 50 | 16 36 | 1 55 | | | n.a. |
| T 22 | 21 20 | 18 1 | 0 17 | 13 50 | 0 41 | 19 29 | 2 46 | 20 49 | 1 10 | 10 52 | 1 14 | 9 31 | 2 27 | 17 37 | 0 46 | 6 20 | 1 58 | 1 23 | 12 53 | 16 51 | 16 37 | 1 58 | | | n.a. |
| F 23 | 21 9 | 12 16 | 1s 2 | 13 17 | 0 51 | 19 41 | 2 43 | 20 40 | 1 10 | 10 48 | 1 14 | 9 32 | 2 27 | 17 38 | 0 46 | 6 20 | 1 58 | 1 23 | 12 54 | 16 50 | 16 38 | 2 1 | | | n.a. |
| S 24 | 20 57 | 5 50 | 2 18 | 12 44 | 1 0 | 19 53 | 2 39 | 20 30 | 1 10 | 10 43 | 1 14 | 9 34 | 2 28 | 17 39 | 0 46 | 6 20 | 1 58 | 1 23 | 12 54 | 16 50 | 16 39 | 2 5 | | | n.a. |
| S 25 | 20 46 | 0s52 | 3 25 | 12 12 | 1 10 | 20 5 | 2 36 | 20 21 | 1 10 | 10 39 | 1 14 | 9 35 | 2 28 | 17 39 | 0 46 | 6 20 | 1 58 | 1 23 | 12 54 | 16 50 | 16 39 | 2 8 | | | n.a. |
| M26 | 20 34 | 7 28 | 4 19 | 11 40 | 1 20 | 20 16 | 2 32 | 20 11 | 1 10 | 10 34 | 1 14 | 9 36 | 2 28 | 17 40 | 0 46 | 6 20 | 1 58 | 1 22 | 12 54 | 16 50 | 16 40 | 2 11 | | | n.a. |
| T 27 | 20 22 | 13 37 | 4 56 | 11 9 | 1 30 | 20 26 | 2 29 | 20 2 | 1 9 | 10 30 | 1 14 | 9 38 | 2 28 | 17 41 | 0 46 | 6 20 | 1 58 | 1 22 | 12 55 | 16 49 | 16 41 | 2 15 | | | n.a. |
| W28 | 20 9 | 18 58 | 5 14 | 10 38 | 1 40 | 20 37 | 2 25 | 19 52 | 1 9 | 10 26 | 1 14 | 9 39 | 2 28 | 17 41 | 0 46 | 6 19 | 1 58 | 1 22 | 12 55 | 16 49 | 16 42 | 2 18 | | | n.a. |
| T 29 | 19 56 | 23 13 | 5 14 | 10 8 | 1 50 | 20 47 | 2 22 | 19 42 | 1 9 | 10 21 | 1 14 | 9 40 | 2 29 | 17 42 | 0 46 | 6 19 | 1 59 | 1 22 | 12 55 | 16 50 | 16 43 | 2 21 | | | n.a. |
| F 30 | 19 43 | 26 8 | 4 56 | 9 39 | 2 0 | 20 56 | 2 18 | 19 32 | 1 9 | 10 17 | 1 14 | 9 42 | 2 29 | 17 43 | 0 46 | 6 19 | 1 59 | 1 22 | 12 55 | 16 50 | 16 44 | 2 24 | | | n.a. |
| S 31 | 19n29 | 27s30 | 4s23 | 9n11 | 2s10 | 21n 5 | 2s14 | 19n21 | 1n 9 | 10n12 | 1n14 | 9s43 | 2s29 | 17s43 | 0s46 | 6n19 | 1s59 | 1n22 | 12s56 | 16s50 | 16s45 | 2n28 | | | n.a. |

Julian Day Number = 1686540.5, Delta T = 03h12m42s
Ecliptic obliquity = 23°42'30, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°23'01, Lahiri = - 5°16'01 Julian Calendar 1 July 96 BCE == Greg. Calendar 29 June 096 BCE

The year -95 astronomical counting style corresponds to year 096 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 96 BCE
# geocentric

## AUGUST 96 BCE (-95) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 26 28 | 4♌54'16 | 0♋57 | 1♍55 | 20♊51 | 9♌30 | 7♍ 8 | 11°R12 | 13°R20 | 20°R39 | 5♉41 | 13°R54 | 14♒ 9 | 28♓ 7 | n.a. | S 1 |
| M 2 | 20 30 25 | 5°52'20 | 13°50 | 2°42 | 21°56 | 10° 8 | 7°20 | 11♓ 9 | 13♒18 | 20♈39 | 5°41 | 13♒53 | 14° 6 | 28°13 | n.a. | M 2 |
| T 3 | 20 34 21 | 6°50'26 | 26°29 | 3°26 | 23° 2 | 10°47 | 7°32 | 11° 5 | 13°15 | 20°38 | 5°41 | 13°52 | 14° 3 | 28°20 | n.a. | T 3 |
| W 4 | 20 38 18 | 7°48'33 | 8♒55 | 4° 6 | 24° 8 | 11°25 | 7°44 | 11° 2 | 13°13 | 20°38 | 5°42 | 13°D52 | 14° 0 | 28°27 | n.a. | W 4 |
| T 5 | 20 42 14 | 8°46'42 | 21°10 | 4°42 | 25°14 | 12° 4 | 7°56 | 10°58 | 13°11 | 20°38 | 5°42 | 13°52 | 13°57 | 28°33 | n.a. | T 5 |
| F 6 | 20 46 11 | 9°44'53 | 3♓15 | 5°14 | 26°20 | 12°42 | 8° 8 | 10°54 | 13° 8 | 20°38 | 5°42 | 13°52 | 13°53 | 28°40 | n.a. | F 6 |
| S 7 | 20 50 8 | 10°43'06 | 15°12 | 5°41 | 27°26 | 13°21 | 8°21 | 10°51 | 13° 6 | 20°37 | 5°42 | 13°52 | 13°50 | 28°47 | n.a. | S 7 |
| S 8 | 20 54 4 | 11°41'21 | 27° 4 | 6° 4 | 28°33 | 13°59 | 8°33 | 10°47 | 13° 3 | 20°37 | 5°42 | 13°53 | 13°47 | 28°53 | n.a. | S 8 |
| M 9 | 20 58 1 | 12°39'38 | 8♈54 | 6°21 | 29°39 | 14°38 | 8°45 | 10°43 | 13° 1 | 20°36 | 5°R42 | 13°53 | 13°44 | 29° 0 | n.a. | M 9 |
| T 10 | 21 1 57 | 13°37'57 | 20°45 | 6°33 | 0♋46 | 15°16 | 8°57 | 10°39 | 12°59 | 20°36 | 5°42 | 13°R53 | 13°41 | 29° 7 | n.a. | T 10 |
| W11 | 21 5 54 | 14°36'18 | 2♉43 | 6°39 | 1°54 | 15°55 | 9°10 | 10°35 | 12°56 | 20°36 | 5°42 | 13°53 | 13°38 | 29°14 | n.a. | W11 |
| T 12 | 21 9 50 | 15°34'42 | 14°50 | 6°R40 | 3° 1 | 16°34 | 9°22 | 10°31 | 12°54 | 20°35 | 5°42 | 13°D53 | 13°34 | 29°20 | n.a. | T 12 |
| F 13 | 21 13 47 | 16°33'08 | 27°13 | 6°34 | 4° 9 | 17°12 | 9°35 | 10°27 | 12°51 | 20°35 | 5°42 | 13°53 | 13°31 | 29°27 | n.a. | F 13 |
| S 14 | 21 17 43 | 17°31'36 | 9♊54 | 6°22 | 5°16 | 17°51 | 9°47 | 10°23 | 12°49 | 20°34 | 5°41 | 13°53 | 13°28 | 29°34 | n.a. | S 14 |
| S 15 | 21 21 40 | 18°30'06 | 22°59 | 6° 3 | 6°24 | 18°30 | 10° 0 | 10°19 | 12°47 | 20°34 | 5°41 | 13°54 | 13°25 | 29°40 | n.a. | S 15 |
| M16 | 21 25 36 | 19°28'39 | 6♋28 | 5°37 | 7°32 | 19° 8 | 10°12 | 10°15 | 12°44 | 20°33 | 5°41 | 13°54 | 13°22 | 29°47 | n.a. | M16 |
| T 17 | 21 29 33 | 20°27'14 | 20°22 | 5° 4 | 8°41 | 19°47 | 10°25 | 10°10 | 12°42 | 20°32 | 5°41 | 13°55 | 13°18 | 29°54 | n.a. | T 17 |
| W18 | 21 33 30 | 21°25'51 | 4♌41 | 4°25 | 9°49 | 20°26 | 10°38 | 10° 6 | 12°39 | 20°32 | 5°41 | 13°55 | 13°15 | 0♈ 0 | n.a. | W18 |
| T 19 | 21 37 26 | 22°24'30 | 19°20 | 3°39 | 10°58 | 21° 5 | 10°50 | 10° 2 | 12°37 | 20°31 | 5°41 | 13°R55 | 13°12 | 0° 7 | n.a. | T 19 |
| F 20 | 21 41 23 | 23°23'11 | 4♍13 | 2°48 | 12° 6 | 21°43 | 11° 3 | 9°57 | 12°35 | 20°30 | 5°40 | 13°55 | 13° 9 | 0°14 | n.a. | F 20 |
| S 21 | 21 45 19 | 24°21'54 | 19°12 | 1°51 | 13°15 | 22°22 | 11°16 | 9°53 | 12°32 | 20°29 | 5°40 | 13°54 | 13° 6 | 0°20 | n.a. | S 21 |
| S 22 | 21 49 16 | 25°20'39 | 4♎ 8 | 0°51 | 14°24 | 23° 1 | 11°28 | 9°48 | 12°30 | 20°29 | 5°40 | 13°52 | 13° 3 | 0°27 | n.a. | S 22 |
| M23 | 21 53 12 | 26°19'26 | 18°55 | 29♌47 | 15°33 | 23°40 | 11°41 | 9°44 | 12°28 | 20°28 | 5°40 | 13°51 | 12°59 | 0°34 | n.a. | M23 |
| T 24 | 21 57 9 | 27°18'15 | 3♏25 | 28°42 | 16°43 | 24°19 | 11°54 | 9°39 | 12°25 | 20°27 | 5°39 | 13°50 | 12°56 | 0°40 | n.a. | T 24 |
| W25 | 22 1 5 | 28°17'05 | 17°35 | 27°37 | 17°52 | 24°58 | 12° 7 | 9°34 | 12°23 | 20°26 | 5°39 | 13°49 | 12°53 | 0°47 | n.a. | W25 |
| T 26 | 22 5 2 | 29°15'58 | 1♐23 | 26°33 | 19° 2 | 25°37 | 12°20 | 9°30 | 12°21 | 20°25 | 5°39 | 13°D49 | 12°50 | 0°54 | n.a. | T 26 |
| F 27 | 22 8 59 | 0♏14'52 | 14°49 | 25°33 | 20°11 | 26°16 | 12°33 | 9°25 | 12°19 | 20°24 | 5°38 | 13°49 | 12°47 | 1° 1 | n.a. | F 27 |
| S 28 | 22 12 55 | 1°13'48 | 27°56 | 24°37 | 21°21 | 26°55 | 12°46 | 9°20 | 12°16 | 20°23 | 5°38 | 13°50 | 12°44 | 1° 7 | n.a. | S 28 |
| S 29 | 22 16 52 | 2°12'46 | 10♑45 | 23°48 | 22°31 | 27°34 | 12°59 | 9°16 | 12°14 | 20°22 | 5°37 | 13°52 | 12°40 | 1°14 | n.a. | S 29 |
| M30 | 22 20 48 | 3°11'46 | 23°19 | 23° 6 | 23°42 | 28°13 | 13°11 | 9°11 | 12°12 | 20°21 | 5°37 | 13°53 | 12°37 | 1°21 | n.a. | M30 |
| T 31 | 22 24 45 | 4♍10'47 | 5♒40 | 22♌33 | 24♋52 | 28♌52 | 13♍24 | 9♓ 6 | 12♒10 | 20♈20 | 5♉37 | 13♒54 | 12♒34 | 1♈27 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| S 1 | 19n15 | 27s18 | 3s36 | 8n43 | 2s20 | 21n13 | 2s10 | 19n11 | 1n 9 | 10n 7 | 1n13 | 9s45 | 2s29 | 17s44 | 0s46 | 6n19 | 1s59 | 1n22 | 12s56 | 16s51 | 16s46 | 2n31 | | n.a. | |
| M 2 | 19 1 | 25 37 | 2 39 | 8 17 | 2 30 | 21 22 | 2 6 | 19 0 | 1 9 | 10 3 | 1 13 | 9 46 | 2 30 | 17 45 | 0 46 | 6 19 | 1 59 | 1 21 | 12 56 | 16 51 | 16 47 | 2 34 | | n.a. | |
| T 3 | 18 46 | 22 39 | 1 35 | 7 52 | 2 40 | 21 29 | 2 2 | 18 50 | 1 9 | 9 58 | 1 13 | 9 48 | 2 30 | 17 45 | 0 46 | 6 19 | 1 59 | 1 21 | 12 56 | 16 51 | 16 48 | 2 37 | | n.a. | |
| W 4 | 18 31 | 18 40 | 0 27 | 7 29 | 2 50 | 21 36 | 1 59 | 18 39 | 1 9 | 9 54 | 1 13 | 9 49 | 2 30 | 17 46 | 0 46 | 6 19 | 1 59 | 1 21 | 12 57 | 16 51 | 16 49 | 2 41 | | n.a. | |
| T 5 | 18 16 | 13 58 | 0n40 | 7 7 | 2 59 | 21 43 | 1 55 | 18 28 | 1 9 | 9 49 | 1 13 | 9 51 | 2 30 | 17 47 | 0 46 | 6 19 | 1 59 | 1 21 | 12 57 | 16 51 | 16 50 | 2 44 | | n.a. | |
| F 6 | 18 0 | 8 47 | 1 46 | 6 47 | 3 8 | 21 49 | 1 51 | 18 17 | 1 8 | 9 44 | 1 13 | 9 52 | 2 30 | 17 48 | 0 46 | 6 18 | 1 59 | 1 21 | 12 57 | 16 51 | 16 51 | 2 47 | | n.a. | |
| S 7 | 17 45 | 3 21 | 2 45 | 6 29 | 3 17 | 21 54 | 1 47 | 18 6 | 1 8 | 9 40 | 1 13 | 9 54 | 2 31 | 17 48 | 0 46 | 6 18 | 1 59 | 1 20 | 12 57 | 16 51 | 16 52 | 2 51 | | n.a. | |
| S 8 | 17 28 | 2n 8 | 3 37 | 6 12 | 3 26 | 21 59 | 1 43 | 17 54 | 1 8 | 9 35 | 1 13 | 9 56 | 2 31 | 17 49 | 0 46 | 6 18 | 1 59 | 1 20 | 12 58 | 16 51 | 16 52 | 2 54 | | n.a. | |
| M 9 | 17 12 | 7 33 | 4 20 | 5 59 | 3 34 | 22 4 | 1 39 | 17 43 | 1 8 | 9 30 | 1 13 | 9 57 | 2 31 | 17 50 | 0 46 | 6 18 | 1 59 | 1 20 | 12 58 | 16 51 | 16 53 | 2 57 | | n.a. | |
| T 10 | 16 55 | 12 41 | 4 52 | 5 47 | 3 41 | 22 8 | 1 35 | 17 31 | 1 8 | 9 25 | 1 13 | 9 59 | 2 31 | 17 50 | 0 46 | 6 18 | 1 59 | 1 20 | 12 58 | 16 51 | 16 54 | 3 0 | | n.a. | |
| W11 | 16 38 | 17 25 | 5 11 | 5 39 | 3 48 | 22 11 | 1 31 | 17 19 | 1 8 | 9 21 | 1 13 | 10 1 | 2 31 | 17 51 | 0 46 | 6 17 | 1 59 | 1 19 | 12 58 | 16 51 | 16 55 | 3 4 | | n.a. | |
| T 12 | 16 21 | 21 31 | 5 17 | 5 33 | 3 54 | 22 14 | 1 26 | 17 7 | 1 8 | 9 16 | 1 13 | 10 2 | 2 31 | 17 52 | 0 46 | 6 17 | 1 59 | 1 19 | 12 58 | 16 51 | 16 56 | 3 7 | | n.a. | |
| F 13 | 16 3 | 24 46 | 5 9 | 5 30 | 3 59 | 22 16 | 1 22 | 16 55 | 1 8 | 9 11 | 1 13 | 10 4 | 2 32 | 17 52 | 0 46 | 6 17 | 2 0 | 1 19 | 12 59 | 16 51 | 16 57 | 3 10 | | n.a. | |
| S 14 | 15 45 | 26 53 | 4 45 | 5 31 | 4 3 | 22 18 | 1 18 | 16 43 | 1 7 | 9 6 | 1 13 | 10 6 | 2 32 | 17 53 | 0 46 | 6 17 | 2 0 | 1 19 | 12 59 | 16 51 | 16 58 | 3 13 | | n.a. | |
| S 15 | 15 27 | 27 37 | 4 7 | 5 35 | 4 6 | 22 19 | 1 14 | 16 31 | 1 7 | 9 1 | 1 13 | 10 7 | 2 32 | 17 54 | 0 46 | 6 16 | 2 0 | 1 18 | 12 59 | 16 51 | 16 59 | 3 17 | | n.a. | |
| M16 | 15 9 | 26 46 | 3 13 | 5 43 | 4 8 | 22 19 | 1 10 | 16 19 | 1 7 | 8 57 | 1 12 | 10 9 | 2 32 | 17 54 | 0 46 | 6 16 | 2 0 | 1 18 | 12 59 | 16 50 | 17 0 | 3 20 | | n.a. | |
| T 17 | 14 50 | 24 14 | 2 7 | 5 55 | 4 8 | 22 19 | 1 6 | 16 6 | 1 7 | 8 52 | 1 12 | 10 11 | 2 32 | 17 55 | 0 46 | 6 16 | 2 0 | 1 18 | 13 0 | 16 50 | 17 1 | 3 23 | | n.a. | |
| W18 | 14 31 | 20 8 | 0 51 | 6 11 | 4 6 | 22 18 | 1 2 | 15 54 | 1 7 | 8 47 | 1 12 | 10 13 | 2 32 | 17 56 | 0 46 | 6 15 | 2 0 | 1 18 | 13 0 | 16 50 | 17 2 | 3 26 | | n.a. | |
| T 19 | 14 12 | 14 43 | 0s30 | 6 30 | 4 3 | 22 17 | 0 58 | 15 41 | 1 7 | 8 42 | 1 12 | 10 15 | 2 33 | 17 56 | 0 46 | 6 15 | 2 0 | 1 17 | 13 0 | 16 50 | 17 3 | 3 30 | | n.a. | |
| F 20 | 13 53 | 8 22 | 1 50 | 6 54 | 3 58 | 22 15 | 0 54 | 15 28 | 1 7 | 8 37 | 1 12 | 10 16 | 2 33 | 17 57 | 0 46 | 6 15 | 2 0 | 1 17 | 13 0 | 16 50 | 17 4 | 3 33 | | n.a. | |
| S 21 | 13 33 | 1 31 | 3 3 | 7 21 | 3 51 | 22 13 | 0 50 | 15 15 | 1 6 | 8 32 | 1 12 | 10 18 | 2 33 | 17 58 | 0 46 | 6 14 | 2 0 | 1 17 | 13 1 | 16 51 | 17 4 | 3 36 | | n.a. | |
| S 22 | 13 13 | 5s23 | 4 4 | 7 51 | 3 42 | 22 9 | 0 46 | 15 2 | 1 6 | 8 27 | 1 12 | 10 20 | 2 33 | 17 58 | 0 46 | 6 14 | 2 0 | 1 16 | 13 1 | 16 51 | 17 5 | 3 39 | | n.a. | |
| M23 | 12 53 | 11 54 | 4 47 | 8 23 | 3 31 | 22 6 | 0 42 | 14 49 | 1 6 | 8 22 | 1 12 | 10 22 | 2 33 | 17 59 | 0 46 | 6 14 | 2 0 | 1 16 | 13 1 | 16 51 | 17 6 | 3 42 | | n.a. | |
| T 24 | 12 33 | 17 39 | 5 11 | 8 58 | 3 18 | 22 1 | 0 38 | 14 36 | 1 6 | 8 17 | 1 12 | 10 24 | 2 33 | 18 0 | 0 46 | 6 13 | 2 0 | 1 16 | 13 1 | 16 52 | 17 7 | 3 46 | | n.a. | |
| W25 | 12 12 | 22 18 | 5 16 | 9 35 | 3 3 | 21 56 | 0 34 | 14 23 | 1 6 | 8 12 | 1 12 | 10 26 | 2 33 | 18 0 | 0 46 | 6 13 | 2 0 | 1 15 | 13 1 | 16 52 | 17 8 | 3 49 | | n.a. | |
| T 26 | 11 51 | 25 35 | 5 2 | 10 12 | 2 47 | 21 50 | 0 30 | 14 9 | 1 6 | 8 7 | 1 12 | 10 28 | 2 33 | 18 1 | 0 46 | 6 13 | 2 0 | 1 15 | 13 2 | 16 52 | 17 9 | 3 52 | | n.a. | |
| F 27 | 11 31 | 27 20 | 4 31 | 10 49 | 2 29 | 21 44 | 0 26 | 13 56 | 1 5 | 8 2 | 1 12 | 10 29 | 2 33 | 18 2 | 0 46 | 6 12 | 2 0 | 1 15 | 13 2 | 16 52 | 17 10 | 3 55 | | n.a. | |
| S 28 | 11 9 | 27 29 | 3 47 | 11 25 | 2 10 | 21 37 | 0 23 | 13 42 | 1 5 | 7 57 | 1 12 | 10 31 | 2 34 | 18 2 | 0 46 | 6 12 | 2 0 | 1 15 | 13 2 | 16 52 | 17 11 | 3 59 | | n.a. | |
| S 29 | 10 48 | 26 9 | 2 53 | 12 0 | 1 51 | 21 30 | 0 19 | 13 28 | 1 5 | 7 52 | 1 12 | 10 33 | 2 34 | 18 3 | 0 46 | 6 11 | 2 0 | 1 14 | 13 2 | 16 51 | 17 12 | 4 2 | | n.a. | |
| M30 | 10 27 | 23 30 | 1 51 | 12 33 | 1 31 | 21 22 | 0 15 | 13 14 | 1 5 | 7 47 | 1 12 | 10 35 | 2 34 | 18 4 | 0 46 | 6 11 | 2 0 | 1 14 | 13 3 | 16 51 | 17 13 | 4 5 | | n.a. | |
| T 31 | 10n 5 | 19s48 | 0s45 | 13n 2 | 1s11 | 21n13 | 0s11 | 13n 1 | 1n 5 | 7n42 | 1n12 | 10s37 | 2s34 | 18s 4 | 0s46 | 6n10 | 2s 1 | 1n13 | 13s 3 | 16s50 | 17s14 | 4n 8 | | n.a. | |

Julian Day Number = 1686571.5, Delta T = 03h12m41s
Ecliptic obliquity = 23°42'30, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°22'57, Lahiri = - 5°15'56 Julian Calendar 1 Aug. 96 BCE == Greg. Calendar 30 July 096 BCE

The year -95 astronomical counting style corresponds to year 096 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 96 BCE
# geocentric

## SEPTEMBER 96 BCE (-95) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 22 28 41 | 5♍ 9'51 | 17♒51 | 22°R10 | 26♋ 2 | 29♌31 | 13♍37 | 9°R 2 | 12°R 8 | 20°R19 | 5°R36 | 13°R54 | 12♒31 | 1♈34 | n.a. | W 1 |
| T 2 | 22 32 38 | 6° 8'57 | 29°54 | 21♌57 | 27°13 | 0♍10 | 13°50 | 8♓57 | 12♒ 5 | 20♈18 | 5♉36 | 13♒53 | 12°28 | 1°41 | n.a. | T 2 |
| F 3 | 22 36 34 | 7° 8'05 | 11♓51 | 21°D54 | 28°23 | 0°49 | 14° 3 | 8°52 | 12° 3 | 20°17 | 5°35 | 13°51 | 12°24 | 1°47 | n.a. | F 3 |
| S 4 | 22 40 31 | 8° 7'14 | 23°44 | 22° 2 | 29°34 | 1°28 | 14°16 | 8°47 | 12° 1 | 20°16 | 5°35 | 13°48 | 12°21 | 1°54 | n.a. | S 4 |
| S 5 | 22 44 28 | 9° 6'27 | 5♈35 | 22°19 | 0♌45 | 2° 7 | 14°30 | 8°43 | 11°59 | 20°15 | 5°34 | 13°44 | 12°18 | 2° 1 | n.a. | S 5 |
| M 6 | 22 48 24 | 10° 5'41 | 17°25 | 22°47 | 1°56 | 2°47 | 14°43 | 8°38 | 11°57 | 20°13 | 5°33 | 13°39 | 12°15 | 2° 7 | n.a. | M 6 |
| T 7 | 22 52 21 | 11° 4'58 | 29°18 | 23°25 | 3° 7 | 3°26 | 14°56 | 8°33 | 11°55 | 20°12 | 5°33 | 13°35 | 12°12 | 2°14 | n.a. | T 7 |
| W 8 | 22 56 17 | 12° 4'17 | 11♉16 | 24°11 | 4°19 | 4° 5 | 15° 9 | 8°28 | 11°53 | 20°11 | 5°32 | 13°31 | 12° 9 | 2°21 | n.a. | W 8 |
| T 9 | 23 0 14 | 13° 3'38 | 23°22 | 25° 5 | 5°30 | 4°44 | 15°22 | 8°24 | 11°51 | 20°10 | 5°32 | 13°28 | 12° 5 | 2°28 | n.a. | T 9 |
| F 10 | 23 4 10 | 14° 3'02 | 5♊42 | 26° 7 | 6°41 | 5°24 | 15°35 | 8°19 | 11°49 | 20° 8 | 5°31 | 13°26 | 12° 2 | 2°34 | n.a. | F 10 |
| S 11 | 23 8 7 | 15° 2'29 | 18°18 | 27°15 | 7°53 | 6° 3 | 15°48 | 8°14 | 11°47 | 20° 7 | 5°30 | 13°D26 | 11°59 | 2°41 | n.a. | S 11 |
| S 12 | 23 12 3 | 16° 1'58 | 1♋15 | 28°29 | 9° 5 | 6°42 | 16° 1 | 8° 9 | 11°45 | 20° 6 | 5°30 | 13°26 | 11°56 | 2°48 | n.a. | S 12 |
| M13 | 23 16 0 | 17° 1'29 | 14°37 | 29°48 | 10°17 | 7°22 | 16°14 | 8° 5 | 11°44 | 20° 4 | 5°29 | 13°28 | 11°53 | 2°54 | n.a. | M13 |
| T 14 | 23 19 56 | 18° 1'02 | 28°26 | 1♍12 | 11°28 | 8° 1 | 16°27 | 8° 0 | 11°42 | 20° 3 | 5°28 | 13°29 | 11°50 | 3° 1 | n.a. | T 14 |
| W15 | 23 23 53 | 19° 0'38 | 12♌42 | 2°39 | 12°41 | 8°41 | 16°40 | 7°56 | 11°40 | 20° 2 | 5°28 | 13°R30 | 11°46 | 3° 8 | n.a. | W15 |
| T 16 | 23 27 50 | 20° 0'17 | 27°24 | 4°10 | 13°53 | 9°20 | 16°53 | 7°51 | 11°38 | 20° 0 | 5°27 | 13°29 | 11°43 | 3°14 | n.a. | T 16 |
| F 17 | 23 31 46 | 20°59'57 | 12♍25 | 5°43 | 15° 5 | 10° 0 | 17° 6 | 7°46 | 11°37 | 19°59 | 5°26 | 13°27 | 11°40 | 3°21 | n.a. | F 17 |
| S 18 | 23 35 43 | 21°59'40 | 27°39 | 7°19 | 16°17 | 10°39 | 17°19 | 7°42 | 11°35 | 19°57 | 5°25 | 13°23 | 11°37 | 3°28 | n.a. | S 18 |
| S 19 | 23 39 39 | 22°59'24 | 12♎55 | 8°56 | 17°30 | 11°19 | 17°33 | 7°37 | 11°33 | 19°56 | 5°24 | 13°17 | 11°34 | 3°34 | n.a. | S 19 |
| M20 | 23 43 36 | 23°59'11 | 28° 1 | 10°34 | 18°42 | 11°58 | 17°46 | 7°33 | 11°32 | 19°55 | 5°24 | 13°11 | 11°30 | 3°41 | n.a. | M20 |
| T 21 | 23 47 32 | 24°58'59 | 12♏50 | 12°14 | 19°55 | 12°38 | 17°59 | 7°28 | 11°30 | 19°53 | 5°23 | 13° 5 | 11°27 | 3°48 | n.a. | T 21 |
| W22 | 23 51 29 | 25°58'50 | 27°13 | 13°54 | 21° 7 | 13°18 | 18°12 | 7°24 | 11°29 | 19°52 | 5°22 | 13° 0 | 11°24 | 3°55 | n.a. | W22 |
| T 23 | 23 55 25 | 26°58'42 | 11♐ 9 | 15°35 | 22°20 | 13°57 | 18°25 | 7°20 | 11°27 | 19°50 | 5°21 | 12°57 | 11°21 | 4° 1 | n.a. | T 23 |
| F 24 | 23 59 22 | 27°58'36 | 24°38 | 17°16 | 23°33 | 14°37 | 18°38 | 7°15 | 11°26 | 19°48 | 5°20 | 12°D56 | 11°18 | 4° 8 | n.a. | F 24 |
| S 25 | 0 3 19 | 28°58'32 | 7♑40 | 18°58 | 24°46 | 15°17 | 18°51 | 7°11 | 11°24 | 19°47 | 5°19 | 12°56 | 11°15 | 4°15 | n.a. | S 25 |
| S 26 | 0 7 15 | 29°58'29 | 20°21 | 20°39 | 25°59 | 15°56 | 19° 4 | 7° 7 | 11°23 | 19°45 | 5°19 | 12°57 | 11°11 | 4°21 | n.a. | S 26 |
| M27 | 0 11 12 | 0♎58'29 | 2♒44 | 22°21 | 27°12 | 16°36 | 19°17 | 7° 3 | 11°22 | 19°44 | 5°18 | 12°58 | 11° 8 | 4°28 | n.a. | M27 |
| T 28 | 0 15 8 | 1°58'30 | 14°54 | 24° 2 | 28°25 | 17°16 | 19°30 | 6°59 | 11°20 | 19°42 | 5°17 | 12°R59 | 11° 5 | 4°35 | n.a. | T 28 |
| W29 | 0 19 5 | 2°58'32 | 26°55 | 25°43 | 29°38 | 17°56 | 19°43 | 6°55 | 11°19 | 19°41 | 5°16 | 12°58 | 11° 2 | 4°41 | n.a. | W29 |
| T 30 | 0 23 1 | 3♎58'37 | 8♓50 | 27♍24 | 0♍52 | 18♍36 | 19♍56 | 6♓51 | 11♒18 | 19♈39 | 5♉15 | 12♒54 | 10♒59 | 4♈48 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 9n43 | 15s19 | 0n22 | 13n28 | 0s51 | 21n 3 | 0s 7 | 12n46 | 1n 4 | 7n37 | 1n12 | 10s39 | 2s34 | 18s 5 | 0s46 | 6n10 | 2s 1 | 1n13 | 13s 3 | 16s50 | 17s14 | 4n12 | | n.a. |
| T 2 | 9 21 | 10 17 | 1 27 | 13 51 | 0 32 | 20 53 | 0 4 | 12 32 | 1 4 | 7 32 | 1 12 | 10 41 | 2 34 | 18 5 | 0 46 | 6 10 | 2 1 | 1 13 | 13 3 | 16 51 | 17 15 | 4 15 | | n.a. |
| F 3 | 8 59 | 4 55 | 2 28 | 14 9 | 0 13 | 20 43 | 0 0 | 12 18 | 1 4 | 7 27 | 1 12 | 10 42 | 2 34 | 18 6 | 0 46 | 6 9 | 2 1 | 1 12 | 13 3 | 16 51 | 17 16 | 4 18 | | n.a. |
| S 4 | 8 37 | 0n34 | 3 22 | 14 23 | 0n 4 | 20 32 | 0n 4 | 12 4 | 1 4 | 7 22 | 1 12 | 10 44 | 2 34 | 18 7 | 0 46 | 6 9 | 2 1 | 1 12 | 13 4 | 16 52 | 17 17 | 4 21 | | n.a. |
| S 5 | 8 15 | 6 0 | 4 7 | 14 33 | 0 21 | 20 20 | 0 7 | 11 50 | 1 4 | 7 16 | 1 12 | 10 46 | 2 34 | 18 7 | 0 46 | 6 8 | 2 1 | 1 12 | 13 4 | 16 53 | 17 18 | 4 24 | | n.a. |
| M 6 | 7 52 | 11 14 | 4 41 | 14 38 | 0 36 | 20 7 | 0 11 | 11 35 | 1 3 | 7 11 | 1 12 | 10 48 | 2 34 | 18 8 | 0 46 | 6 8 | 2 1 | 1 11 | 13 4 | 16 55 | 17 19 | 4 28 | | n.a. |
| T 7 | 7 29 | 16 4 | 5 3 | 14 39 | 0 50 | 19 54 | 0 14 | 11 21 | 1 3 | 7 6 | 1 12 | 10 50 | 2 34 | 18 8 | 0 46 | 6 7 | 2 1 | 1 11 | 13 4 | 16 56 | 17 20 | 4 31 | | n.a. |
| W 8 | 7 7 | 20 19 | 5 13 | 14 35 | 1 2 | 19 41 | 0 17 | 11 6 | 1 3 | 7 1 | 1 12 | 10 52 | 2 34 | 18 9 | 0 46 | 6 7 | 2 1 | 1 11 | 13 4 | 16 57 | 17 21 | 4 34 | | n.a. |
| T 9 | 6 44 | 23 47 | 5 8 | 14 27 | 1 13 | 19 27 | 0 21 | 10 51 | 1 3 | 6 56 | 1 12 | 10 53 | 2 34 | 18 9 | 0 45 | 6 6 | 2 1 | 1 10 | 13 5 | 16 58 | 17 22 | 4 37 | | n.a. |
| F 10 | 6 21 | 26 15 | 4 50 | 14 15 | 1 23 | 19 12 | 0 24 | 10 36 | 1 3 | 6 51 | 1 12 | 10 55 | 2 34 | 18 10 | 0 45 | 6 6 | 2 1 | 1 10 | 13 5 | 16 59 | 17 23 | 4 40 | | n.a. |
| S 11 | 5 57 | 27 27 | 4 17 | 14 0 | 1 32 | 18 57 | 0 27 | 10 22 | 1 2 | 6 46 | 1 12 | 10 57 | 2 34 | 18 10 | 0 45 | 6 5 | 2 1 | 1 9 | 13 5 | 16 59 | 17 23 | 4 44 | | n.a. |
| S 12 | 5 34 | 27 13 | 3 30 | 13 41 | 1 39 | 18 41 | 0 31 | 10 7 | 1 2 | 6 41 | 1 12 | 10 59 | 2 34 | 18 11 | 0 45 | 6 5 | 2 1 | 1 9 | 13 5 | 16 58 | 17 24 | 4 47 | | n.a. |
| M13 | 5 11 | 25 24 | 2 31 | 13 18 | 1 45 | 18 24 | 0 34 | 9 52 | 1 2 | 6 36 | 1 12 | 11 1 | 2 34 | 18 11 | 0 45 | 6 4 | 2 1 | 1 9 | 13 5 | 16 58 | 17 25 | 4 50 | | n.a. |
| T 14 | 4 47 | 22 2 | 1 21 | 12 53 | 1 50 | 18 7 | 0 37 | 9 36 | 1 2 | 6 30 | 1 12 | 11 2 | 2 34 | 18 12 | 0 45 | 6 3 | 2 1 | 1 8 | 13 6 | 16 58 | 17 26 | 4 53 | | n.a. |
| W15 | 4 24 | 17 15 | 0 4 | 12 24 | 1 53 | 17 50 | 0 40 | 9 21 | 1 1 | 6 25 | 1 12 | 11 4 | 2 34 | 18 12 | 0 45 | 6 3 | 2 1 | 1 8 | 13 6 | 16 57 | 17 27 | 4 56 | | n.a. |
| T 16 | 4 0 | 11 20 | 1s15 | 11 54 | 1 56 | 17 32 | 0 43 | 9 6 | 1 1 | 6 20 | 1 12 | 11 6 | 2 34 | 18 13 | 0 45 | 6 2 | 2 1 | 1 7 | 13 6 | 16 58 | 17 28 | 5 0 | | n.a. |
| F 17 | 3 36 | 4 39 | 2 31 | 11 21 | 1 58 | 17 13 | 0 46 | 8 51 | 1 1 | 6 15 | 1 12 | 11 8 | 2 34 | 18 13 | 0 45 | 6 2 | 2 1 | 1 7 | 13 6 | 16 58 | 17 29 | 5 3 | | n.a. |
| S 18 | 3 13 | 2s22 | 3 37 | 10 46 | 1 59 | 16 54 | 0 49 | 8 35 | 1 1 | 6 10 | 1 12 | 11 9 | 2 34 | 18 14 | 0 45 | 6 1 | 2 1 | 1 7 | 13 6 | 17 0 | 17 30 | 5 6 | | n.a. |
| S 19 | 2 49 | 9 15 | 4 27 | 10 9 | 1 59 | 16 35 | 0 51 | 8 20 | 1 1 | 6 5 | 1 12 | 11 11 | 2 34 | 18 14 | 0 45 | 6 1 | 2 1 | 1 6 | 13 6 | 17 1 | 17 31 | 5 9 | | n.a. |
| M20 | 2 25 | 15 32 | 4 59 | 9 31 | 1 58 | 16 15 | 0 54 | 8 4 | 1 0 | 6 0 | 1 12 | 11 13 | 2 34 | 18 15 | 0 45 | 6 0 | 2 1 | 1 6 | 13 6 | 17 3 | 17 31 | 5 12 | | n.a. |
| T 21 | 2 1 | 20 46 | 5 9 | 8 51 | 1 57 | 15 54 | 0 57 | 7 49 | 1 0 | 5 54 | 1 12 | 11 14 | 2 34 | 18 15 | 0 45 | 5 59 | 2 1 | 1 5 | 13 7 | 17 5 | 17 32 | 5 16 | | n.a. |
| W22 | 1 37 | 24 37 | 5 0 | 8 10 | 1 55 | 15 33 | 0 59 | 7 33 | 1 0 | 5 49 | 1 12 | 11 16 | 2 34 | 18 15 | 0 45 | 5 59 | 2 1 | 1 5 | 13 7 | 17 6 | 17 33 | 5 19 | | n.a. |
| T 23 | 1 13 | 26 52 | 4 33 | 7 28 | 1 53 | 15 12 | 1 2 | 7 18 | 1 0 | 5 44 | 1 12 | 11 17 | 2 34 | 18 16 | 0 45 | 5 58 | 2 1 | 1 5 | 13 7 | 17 7 | 17 34 | 5 22 | | n.a. |
| F 24 | 0 49 | 27 27 | 3 52 | 6 46 | 1 50 | 14 50 | 1 4 | 7 2 | 0 59 | 5 39 | 1 12 | 11 19 | 2 34 | 18 16 | 0 45 | 5 58 | 2 1 | 1 4 | 13 7 | 17 7 | 17 35 | 5 25 | | n.a. |
| S 25 | 0 25 | 26 28 | 2 59 | 6 2 | 1 46 | 14 28 | 1 7 | 6 46 | 0 59 | 5 34 | 1 12 | 11 21 | 2 34 | 18 16 | 0 45 | 5 57 | 2 1 | 1 4 | 13 7 | 17 7 | 17 36 | 5 28 | | n.a. |
| S 26 | 0 1 | 24 7 | 1 59 | 5 18 | 1 42 | 14 5 | 1 9 | 6 30 | 0 59 | 5 29 | 1 12 | 11 22 | 2 34 | 18 17 | 0 45 | 5 56 | 2 2 | 1 3 | 13 7 | 17 7 | 17 37 | 5 31 | | n.a. |
| M27 | 0s24 | 20 40 | 0 55 | 4 34 | 1 38 | 13 42 | 1 11 | 6 14 | 0 58 | 5 24 | 1 12 | 11 24 | 2 34 | 18 17 | 0 45 | 5 56 | 2 2 | 1 3 | 13 7 | 17 7 | 17 38 | 5 35 | | n.a. |
| T 28 | 0 48 | 16 23 | 0n10 | 3 49 | 1 34 | 13 18 | 1 13 | 5 59 | 0 58 | 5 19 | 1 12 | 11 25 | 2 33 | 18 17 | 0 45 | 5 55 | 2 2 | 1 3 | 13 8 | 17 6 | 17 39 | 5 38 | | n.a. |
| W29 | 1 12 | 11 31 | 1 14 | 3 4 | 1 29 | 12 54 | 1 15 | 5 43 | 0 58 | 5 14 | 1 12 | 11 26 | 2 33 | 18 18 | 0 45 | 5 54 | 2 2 | 1 2 | 13 8 | 17 7 | 17 39 | 5 41 | | n.a. |
| T 30 | 1s36 | 6s17 | 2n14 | 2n19 | 1n24 | 12n30 | 1n17 | 5n27 | 0n58 | 5n 8 | 1n12 | 11s28 | 2s33 | 18s18 | 0s45 | 5n54 | 2s 2 | 1n 2 | 13s 8 | 17s 8 | 17s40 | 5n44 | | n.a. |

Julian Day Number = 1686602.5, Delta T = 03h12m40s
Ecliptic obliquity = 23°42'30, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°22'53, Lahiri = - 5°15'52 Julian Calendar 1 Sept. 96 BCE == Greg. Calendar 30 Aug. 096 BCE

The year -95 astronomical counting style corresponds to year 096 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 96 BCE
# geocentric

## OCTOBER 96 BCE (-95) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 0 26 58 | 4♎58'43 | 20♓41 | 29♍ 5 | 2♍ 5 | 19♍16 | 20♍ 8 | 6°R47 | 11°R17 | 19°R37 | 5°R14 | 12°R48 | 10♒55 | 4♈55 | n.a. | F 1 |
| S 2 | 0 30 54 | 5°58'51 | 2♈32 | 0♎45 | 3°18 | 19°55 | 20°21 | 6♓43 | 11♒16 | 19♈36 | 5♉13 | 12♒40 | 10°52 | 5° 1 | n.a. | S 2 |
| S 3 | 0 34 51 | 6°59'01 | 14°23 | 2°25 | 4°32 | 20°35 | 20°34 | 6°39 | 11°15 | 19°34 | 5°12 | 12°30 | 10°49 | 5° 8 | n.a. | S 3 |
| M 4 | 0 38 48 | 7°59'13 | 26°17 | 4° 4 | 5°45 | 21°15 | 20°47 | 6°35 | 11°14 | 19°32 | 5°11 | 12°19 | 10°46 | 5°15 | n.a. | M 4 |
| T 5 | 0 42 44 | 8°59'27 | 8♉14 | 5°43 | 6°59 | 21°55 | 21° 0 | 6°32 | 11°13 | 19°31 | 5°10 | 12° 8 | 10°43 | 5°22 | n.a. | T 5 |
| W 6 | 0 46 41 | 9°59'43 | 20°17 | 7°22 | 8°13 | 22°35 | 21°12 | 6°28 | 11°12 | 19°29 | 5° 9 | 11°58 | 10°40 | 5°28 | n.a. | W 6 |
| T 7 | 0 50 37 | 11° 0'01 | 2♊28 | 9° 0 | 9°27 | 23°16 | 21°25 | 6°25 | 11°11 | 19°27 | 5° 8 | 11°49 | 10°36 | 5°35 | n.a. | T 7 |
| F 8 | 0 54 34 | 12° 0'21 | 14°49 | 10°38 | 10°40 | 23°56 | 21°38 | 6°21 | 11°10 | 19°26 | 5° 7 | 11°43 | 10°33 | 5°42 | n.a. | F 8 |
| S 9 | 0 58 30 | 13° 0'44 | 27°24 | 12°15 | 11°54 | 24°36 | 21°51 | 6°18 | 11° 9 | 19°24 | 5° 6 | 11°39 | 10°30 | 5°48 | n.a. | S 9 |
| S 10 | 1 2 27 | 14° 1'08 | 10♋16 | 13°52 | 13° 8 | 25°16 | 22° 3 | 6°15 | 11° 9 | 19°22 | 5° 5 | 11°D38 | 10°27 | 5°55 | n.a. | S 10 |
| M11 | 1 6 23 | 15° 1'34 | 23°29 | 15°29 | 14°22 | 25°56 | 22°16 | 6°12 | 11° 8 | 19°21 | 5° 4 | 11°38 | 10°24 | 6° 2 | n.a. | M11 |
| T 12 | 1 10 20 | 16° 2'03 | 7♌ 6 | 17° 5 | 15°36 | 26°36 | 22°28 | 6° 9 | 11° 7 | 19°19 | 5° 3 | 11°R39 | 10°21 | 6° 8 | n.a. | T 12 |
| W13 | 1 14 17 | 17° 2'33 | 21° 9 | 18°41 | 16°51 | 27°17 | 22°41 | 6° 6 | 11° 7 | 19°17 | 5° 2 | 11°39 | 10°17 | 6°15 | n.a. | W13 |
| T 14 | 1 18 13 | 18° 3'05 | 5♍39 | 20°16 | 18° 5 | 27°57 | 22°53 | 6° 3 | 11° 6 | 19°16 | 5° 1 | 11°36 | 10°14 | 6°22 | n.a. | T 14 |
| F 15 | 1 22 10 | 19° 3'39 | 20°32 | 21°52 | 19°19 | 28°37 | 23° 6 | 6° 0 | 11° 6 | 19°14 | 4°59 | 11°32 | 10°11 | 6°29 | n.a. | F 15 |
| S 16 | 1 26 6 | 20° 4'15 | 5♎43 | 23°27 | 20°33 | 29°18 | 23°18 | 5°57 | 11° 5 | 19°12 | 4°58 | 11°24 | 10° 8 | 6°35 | n.a. | S 16 |
| S 17 | 1 30 3 | 21° 4'53 | 21° 0 | 25° 1 | 21°48 | 29°58 | 23°30 | 5°54 | 11° 5 | 19°10 | 4°57 | 11°14 | 10° 5 | 6°42 | n.a. | S 17 |
| M18 | 1 33 59 | 22° 5'32 | 6♏15 | 26°36 | 23° 2 | 0♎38 | 23°43 | 5°52 | 11° 5 | 19° 9 | 4°56 | 11° 4 | 10° 1 | 6°49 | n.a. | M18 |
| T 19 | 1 37 56 | 23° 6'13 | 21°14 | 28°10 | 24°17 | 1°19 | 23°55 | 5°49 | 11° 4 | 19° 7 | 4°55 | 10°53 | 9°58 | 6°55 | n.a. | T 19 |
| W20 | 1 41 52 | 24° 6'55 | 5♐50 | 29°44 | 25°31 | 1°59 | 24° 7 | 5°47 | 11° 4 | 19° 5 | 4°54 | 10°44 | 9°55 | 7° 2 | n.a. | W20 |
| T 21 | 1 45 49 | 25° 7'39 | 19°57 | 1♏17 | 26°46 | 2°40 | 24°19 | 5°45 | 11° 4 | 19° 4 | 4°53 | 10°37 | 9°52 | 7° 9 | n.a. | T 21 |
| F 22 | 1 49 45 | 26° 8'24 | 3♑33 | 2°51 | 28° 0 | 3°20 | 24°32 | 5°43 | 11° 4 | 19° 2 | 4°52 | 10°32 | 9°49 | 7°15 | n.a. | F 22 |
| S 23 | 1 53 42 | 27° 9'10 | 16°41 | 4°24 | 29°15 | 4° 1 | 24°44 | 5°41 | 11° 4 | 19° 0 | 4°51 | 10°30 | 9°46 | 7°22 | n.a. | S 23 |
| S 24 | 1 57 39 | 28° 9'57 | 29°23 | 5°57 | 0♎29 | 4°41 | 24°56 | 5°39 | 11°D 4 | 18°59 | 4°49 | 10°D30 | 9°42 | 7°29 | n.a. | S 24 |
| M25 | 2 1 35 | 29°10'45 | 11♒44 | 7°30 | 1°44 | 5°22 | 25° 7 | 5°37 | 11° 4 | 18°57 | 4°48 | 10°R30 | 9°39 | 7°36 | n.a. | M25 |
| T 26 | 2 5 32 | 0♏11'34 | 23°51 | 9° 3 | 2°59 | 6° 3 | 25°19 | 5°35 | 11° 4 | 18°55 | 4°47 | 10°29 | 9°36 | 7°42 | n.a. | T 26 |
| W27 | 2 9 28 | 1°12'24 | 5♓47 | 10°36 | 4°13 | 6°43 | 25°31 | 5°33 | 11° 4 | 18°54 | 4°46 | 10°27 | 9°33 | 7°49 | n.a. | W27 |
| T 28 | 2 13 25 | 2°13'16 | 17°38 | 12° 8 | 5°28 | 7°24 | 25°43 | 5°32 | 11° 4 | 18°52 | 4°45 | 10°22 | 9°30 | 7°56 | n.a. | T 28 |
| F 29 | 2 17 21 | 3°14'08 | 29°27 | 13°40 | 6°43 | 8° 5 | 25°55 | 5°30 | 11° 4 | 18°50 | 4°44 | 10°14 | 9°26 | 8° 2 | n.a. | F 29 |
| S 30 | 2 21 18 | 4°15'02 | 11♈17 | 15°12 | 7°58 | 8°45 | 26° 6 | 5°29 | 11° 5 | 18°49 | 4°43 | 10° 3 | 9°23 | 8° 9 | n.a. | S 30 |
| S 31 | 2 25 14 | 5♏15'56 | 23♈12 | 16♏44 | 9♎13 | 9♎26 | 26♍18 | 5♓28 | 11♒ 5 | 18♈47 | 4♉41 | 9♒49 | 9♒20 | 8♈16 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 2s 0 | 0s51 | 3n 8 | 1n34 | 1n18 | 12n 5 | 1n19 | 5n10 | 0n57 | 5n 3 | 1n12 | 11s29 | 2s33 | 18s18 | 0s45 | 5n53 | 2s 2 | 1n 1 | 13s 8 | 17s 9 | 17s41 | 5n47 | | n.a. |
| S 2 | 2 24 | 4n35 | 3 54 | 0 48 | 1 13 | 11 40 | 1 21 | 4 54 | 0 57 | 4 58 | 1 12 | 11 31 | 2 33 | 18 19 | 0 45 | 5 53 | 2 2 | 1 1 | 13 8 | 17 12 | 17 42 | 5 50 | | n.a. |
| S 3 | 2 48 | 9 51 | 4 29 | 0 3 | 1 7 | 11 14 | 1 23 | 4 38 | 0 57 | 4 53 | 1 13 | 11 32 | 2 33 | 18 19 | 0 45 | 5 52 | 2 2 | 1 1 | 13 8 | 17 15 | 17 43 | 5 54 | | n.a. |
| M 4 | 3 12 | 14 47 | 4 53 | 0s42 | 1 1 | 10 49 | 1 24 | 4 22 | 0 56 | 4 48 | 1 13 | 11 33 | 2 33 | 18 19 | 0 45 | 5 51 | 2 2 | 1 0 | 13 8 | 17 18 | 17 44 | 5 57 | | n.a. |
| T 5 | 3 36 | 19 11 | 5 3 | 1 28 | 0 55 | 10 22 | 1 26 | 4 6 | 0 56 | 4 43 | 1 13 | 11 34 | 2 33 | 18 19 | 0 45 | 5 51 | 2 2 | 1 0 | 13 8 | 17 21 | 17 45 | 6 0 | | n.a. |
| W 6 | 4 0 | 22 51 | 5 1 | 2 13 | 0 49 | 9 56 | 1 28 | 3 50 | 0 56 | 4 38 | 1 13 | 11 36 | 2 33 | 18 20 | 0 45 | 5 50 | 2 2 | 0 59 | 13 8 | 17 24 | 17 46 | 6 3 | | n.a. |
| T 7 | 4 24 | 25 32 | 4 45 | 2 58 | 0 42 | 9 29 | 1 29 | 3 33 | 0 56 | 4 33 | 1 13 | 11 37 | 2 32 | 18 20 | 0 45 | 5 49 | 2 2 | 0 59 | 13 9 | 17 26 | 17 46 | 6 6 | | n.a. |
| F 8 | 4 48 | 27 4 | 4 15 | 3 42 | 0 36 | 9 2 | 1 30 | 3 17 | 0 55 | 4 28 | 1 13 | 11 38 | 2 32 | 18 20 | 0 45 | 5 49 | 2 2 | 0 59 | 13 9 | 17 28 | 17 47 | 6 9 | | n.a. |
| S 9 | 5 12 | 27 14 | 3 33 | 4 27 | 0 29 | 8 35 | 1 32 | 3 1 | 0 55 | 4 23 | 1 13 | 11 39 | 2 32 | 18 20 | 0 45 | 5 48 | 2 2 | 0 58 | 13 9 | 17 29 | 17 48 | 6 13 | | n.a. |
| S 10 | 5 35 | 25 57 | 2 39 | 5 11 | 0 23 | 8 7 | 1 33 | 2 44 | 0 55 | 4 18 | 1 13 | 11 40 | 2 32 | 18 20 | 0 45 | 5 47 | 2 2 | 0 58 | 13 9 | 17 29 | 17 49 | 6 16 | | n.a. |
| M11 | 5 59 | 23 12 | 1 35 | 5 55 | 0 16 | 7 40 | 1 34 | 2 28 | 0 54 | 4 13 | 1 13 | 11 41 | 2 32 | 18 21 | 0 45 | 5 47 | 2 2 | 0 57 | 13 9 | 17 29 | 17 50 | 6 19 | | n.a. |
| T 12 | 6 23 | 19 6 | 0 24 | 6 38 | 0 10 | 7 12 | 1 35 | 2 11 | 0 54 | 4 8 | 1 13 | 11 42 | 2 32 | 18 21 | 0 45 | 5 46 | 2 2 | 0 57 | 13 9 | 17 29 | 17 51 | 6 22 | | n.a. |
| W13 | 6 46 | 13 49 | 0s50 | 7 21 | 0 3 | 6 43 | 1 36 | 1 55 | 0 54 | 4 3 | 1 13 | 11 43 | 2 32 | 18 21 | 0 45 | 5 45 | 2 2 | 0 57 | 13 9 | 17 29 | 17 52 | 6 25 | | n.a. |
| T 14 | 7 9 | 7 37 | 2 4 | 8 4 | 0s 3 | 6 15 | 1 37 | 1 38 | 0 53 | 3 58 | 1 13 | 11 44 | 2 31 | 18 21 | 0 45 | 5 45 | 2 2 | 0 56 | 13 9 | 17 30 | 17 53 | 6 28 | | n.a. |
| F 15 | 7 33 | 0 52 | 3 11 | 8 46 | 0 10 | 5 46 | 1 38 | 1 22 | 0 53 | 3 54 | 1 13 | 11 45 | 2 31 | 18 21 | 0 45 | 5 44 | 2 2 | 0 56 | 13 9 | 17 31 | 17 53 | 6 31 | | n.a. |
| S 16 | 7 56 | 6s 3 | 4 6 | 9 28 | 0 17 | 5 17 | 1 38 | 1 5 | 0 53 | 3 49 | 1 13 | 11 46 | 2 31 | 18 21 | 0 44 | 5 43 | 2 2 | 0 55 | 13 9 | 17 33 | 17 54 | 6 35 | | n.a. |
| S 17 | 8 19 | 12 39 | 4 43 | 10 9 | 0 23 | 4 48 | 1 39 | 0 49 | 0 52 | 3 44 | 1 14 | 11 47 | 2 31 | 18 21 | 0 44 | 5 43 | 2 2 | 0 55 | 13 9 | 17 36 | 17 55 | 6 38 | | n.a. |
| M18 | 8 42 | 18 28 | 5 1 | 10 50 | 0 30 | 4 19 | 1 40 | 0 32 | 0 52 | 3 39 | 1 14 | 11 48 | 2 31 | 18 21 | 0 44 | 5 42 | 2 2 | 0 55 | 13 9 | 17 39 | 17 56 | 6 41 | | n.a. |
| T 19 | 9 5 | 23 2 | 4 57 | 11 30 | 0 36 | 3 50 | 1 40 | 0 16 | 0 52 | 3 34 | 1 14 | 11 48 | 2 31 | 18 21 | 0 44 | 5 42 | 2 2 | 0 54 | 13 9 | 17 42 | 17 57 | 6 44 | | n.a. |
| W20 | 9 27 | 26 0 | 4 34 | 12 10 | 0 42 | 3 20 | 1 40 | 0s 1 | 0 51 | 3 29 | 1 14 | 11 49 | 2 30 | 18 21 | 0 44 | 5 41 | 2 2 | 0 54 | 13 9 | 17 44 | 17 58 | 6 47 | | n.a. |
| T 21 | 9 50 | 27 13 | 3 54 | 12 49 | 0 49 | 2 50 | 1 41 | 0 18 | 0 51 | 3 25 | 1 14 | 11 50 | 2 30 | 18 21 | 0 44 | 5 40 | 2 2 | 0 53 | 13 9 | 17 46 | 17 59 | 6 50 | | n.a. |
| F 22 | 10 12 | 26 42 | 3 2 | 13 27 | 0 55 | 2 21 | 1 41 | 0 34 | 0 50 | 3 20 | 1 14 | 11 50 | 2 30 | 18 21 | 0 44 | 5 40 | 2 2 | 0 53 | 13 9 | 17 48 | 17 59 | 6 53 | | n.a. |
| S 23 | 10 34 | 24 41 | 2 3 | 14 5 | 1 1 | 1 51 | 1 41 | 0 51 | 0 50 | 3 15 | 1 14 | 11 51 | 2 30 | 18 21 | 0 44 | 5 39 | 2 2 | 0 53 | 13 9 | 17 48 | 18 0 | 6 56 | | n.a. |
| S 24 | 10 56 | 21 28 | 0 59 | 14 42 | 1 7 | 1 21 | 1 41 | 1 7 | 0 50 | 3 10 | 1 14 | 11 52 | 2 30 | 18 21 | 0 44 | 5 38 | 2 2 | 0 52 | 13 9 | 17 48 | 18 1 | 7 0 | | n.a. |
| M25 | 11 18 | 17 21 | 0n 7 | 15 19 | 1 12 | 0 51 | 1 41 | 1 24 | 0 49 | 3 6 | 1 14 | 11 52 | 2 30 | 18 21 | 0 44 | 5 38 | 2 2 | 0 52 | 13 9 | 17 48 | 18 2 | 7 3 | | n.a. |
| T 26 | 11 40 | 12 37 | 1 10 | 15 54 | 1 18 | 0 21 | 1 41 | 1 41 | 0 49 | 3 1 | 1 14 | 11 53 | 2 29 | 18 21 | 0 44 | 5 37 | 2 2 | 0 52 | 13 9 | 17 48 | 18 3 | 7 6 | | n.a. |
| W27 | 12 1 | 7 29 | 2 9 | 16 29 | 1 24 | 0s 9 | 1 41 | 1 57 | 0 49 | 2 56 | 1 15 | 11 53 | 2 29 | 18 21 | 0 44 | 5 37 | 2 2 | 0 51 | 13 9 | 17 49 | 18 4 | 7 9 | | n.a. |
| T 28 | 12 23 | 2 9 | 3 3 | 17 4 | 1 29 | 0 40 | 1 41 | 2 14 | 0 48 | 2 52 | 1 15 | 11 53 | 2 29 | 18 21 | 0 44 | 5 36 | 2 2 | 0 51 | 13 9 | 17 50 | 18 5 | 7 12 | | n.a. |
| F 29 | 12 44 | 3n15 | 3 48 | 17 37 | 1 34 | 1 10 | 1 40 | 2 31 | 0 48 | 2 47 | 1 15 | 11 54 | 2 29 | 18 21 | 0 44 | 5 35 | 2 2 | 0 51 | 13 9 | 17 53 | 18 5 | 7 15 | | n.a. |
| S 30 | 13 5 | 8 32 | 4 23 | 18 9 | 1 39 | 1 40 | 1 40 | 2 47 | 0 47 | 2 43 | 1 15 | 11 54 | 2 29 | 18 21 | 0 44 | 5 35 | 2 2 | 0 50 | 13 9 | 17 56 | 18 6 | 7 18 | | n.a. |
| S 31 | 13s25 | 13n33 | 4n47 | 18s41 | 1s44 | 2s10 | 1n40 | 3s 4 | 0n47 | 2n38 | 1n15 | 11s54 | 2s28 | 18s21 | 0s44 | 5n34 | 2s 2 | 0n50 | 13s 9 | 17s59 | 18s 7 | 7n21 | | n.a. |

Julian Day Number = 1686632.5, Delta T = 03h12m39s
Ecliptic obliquity = 23°42'31, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°22'49, Lahiri = - 5°15'48 Julian Calendar 1 Oct. 96 BCE == Greg. Calendar 29 Sept. 096 BCE

The year -95 astronomical counting style corresponds to year 096 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 96 BCE
# geocentric

## NOVEMBER 96 BCE (-95) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 2 29 11 | 6♏16'52 | 5♉12 | 18♏16 | 10♎28 | 10♎ 7 | 26♍29 | 5°R27 | 11♒ 5 | 18°R46 | 4°R40 | 9°R35 | 9♒17 | 8♈22 | n.a. | M 1 |
| T 2 | 2 33 8 | 7°17'49 | 17°19 | 19°48 | 11°42 | 10°48 | 26°41 | 5♓26 | 11° 6 | 18♈44 | 4♉39 | 9♒20 | 9°14 | 8°29 | n.a. | T 2 |
| W 3 | 2 37 4 | 8°18'47 | 29°33 | 21°19 | 12°57 | 11°29 | 26°52 | 5°25 | 11° 6 | 18°42 | 4°38 | 9° 6 | 9°11 | 8°36 | n.a. | W 3 |
| T 4 | 2 41 1 | 9°19'47 | 11♊55 | 22°50 | 14°12 | 12°10 | 27° 3 | 5°24 | 11° 7 | 18°41 | 4°37 | 8°54 | 9° 7 | 8°43 | n.a. | T 4 |
| F 5 | 2 44 57 | 10°20'47 | 24°26 | 24°21 | 15°27 | 12°51 | 27°15 | 5°23 | 11° 8 | 18°39 | 4°36 | 8°45 | 9° 4 | 8°49 | n.a. | F 5 |
| S 6 | 2 48 54 | 11°21'49 | 7♋ 9 | 25°52 | 16°42 | 13°32 | 27°26 | 5°23 | 11° 8 | 18°38 | 4°35 | 8°40 | 9° 1 | 8°56 | n.a. | S 6 |
| S 7 | 2 52 50 | 12°22'52 | 20° 4 | 27°22 | 17°57 | 14°13 | 27°37 | 5°22 | 11° 9 | 18°36 | 4°33 | 8°37 | 8°58 | 9° 3 | n.a. | S 7 |
| M 8 | 2 56 47 | 13°23'56 | 3♌16 | 28°52 | 19°12 | 14°54 | 27°48 | 5°22 | 11°10 | 18°35 | 4°32 | 8°36 | 8°55 | 9° 9 | n.a. | M 8 |
| T 9 | 3 0 44 | 14°25'01 | 16°46 | 0♐21 | 20°28 | 15°35 | 27°59 | 5°21 | 11°10 | 18°33 | 4°31 | 8°36 | 8°52 | 9°16 | n.a. | T 9 |
| W10 | 3 4 40 | 15°26'08 | 0♍37 | 1°50 | 21°43 | 16°16 | 28° 9 | 5°21 | 11°11 | 18°32 | 4°30 | 8°35 | 8°48 | 9°23 | n.a. | W10 |
| T 11 | 3 8 37 | 16°27'15 | 14°50 | 3°18 | 22°58 | 16°57 | 28°20 | 5°D21 | 11°12 | 18°30 | 4°29 | 8°33 | 8°45 | 9°30 | n.a. | T 11 |
| F 12 | 3 12 33 | 17°28'24 | 29°23 | 4°45 | 24°13 | 17°38 | 28°31 | 5°21 | 11°13 | 18°29 | 4°28 | 8°28 | 8°42 | 9°36 | n.a. | F 12 |
| S 13 | 3 16 30 | 18°29'34 | 14♎14 | 6°12 | 25°28 | 18°19 | 28°41 | 5°22 | 11°14 | 18°27 | 4°27 | 8°20 | 8°39 | 9°43 | n.a. | S 13 |
| S 14 | 3 20 26 | 19°30'44 | 29°15 | 7°37 | 26°43 | 19° 1 | 28°52 | 5°22 | 11°15 | 18°26 | 4°26 | 8°10 | 8°36 | 9°50 | n.a. | S 14 |
| M15 | 3 24 23 | 20°31'56 | 14♏17 | 9° 1 | 27°59 | 19°42 | 29° 2 | 5°22 | 11°16 | 18°24 | 4°25 | 7°58 | 8°32 | 9°56 | n.a. | M15 |
| T 16 | 3 28 19 | 21°33'08 | 29°10 | 10°23 | 29°14 | 20°23 | 29°13 | 5°23 | 11°17 | 18°23 | 4°23 | 7°47 | 8°29 | 10° 3 | n.a. | T 16 |
| W17 | 3 32 16 | 22°34'20 | 13♐45 | 11°43 | 0♏29 | 21° 5 | 29°23 | 5°23 | 11°19 | 18°22 | 4°22 | 7°36 | 8°26 | 10°10 | n.a. | W17 |
| T 18 | 3 36 13 | 23°35'34 | 27°56 | 13° 1 | 1°44 | 21°46 | 29°33 | 5°24 | 11°20 | 18°20 | 4°21 | 7°28 | 8°23 | 10°16 | n.a. | T 18 |
| F 19 | 3 40 9 | 24°36'47 | 11♑38 | 14°17 | 2°59 | 22°27 | 29°43 | 5°25 | 11°21 | 18°19 | 4°20 | 7°23 | 8°20 | 10°23 | n.a. | F 19 |
| S 20 | 3 44 6 | 25°38'01 | 24°52 | 15°29 | 4°15 | 23° 9 | 29°53 | 5°26 | 11°23 | 18°18 | 4°19 | 7°20 | 8°17 | 10°30 | n.a. | S 20 |
| S 21 | 3 48 2 | 26°39'15 | 7♒39 | 16°38 | 5°30 | 23°50 | 0♎ 3 | 5°27 | 11°24 | 18°17 | 4°18 | 7°D20 | 8°13 | 10°37 | n.a. | S 21 |
| M22 | 3 51 59 | 27°40'29 | 20° 5 | 17°43 | 6°45 | 24°32 | 0°12 | 5°28 | 11°25 | 18°15 | 4°17 | 7°20 | 8°10 | 10°43 | n.a. | M22 |
| T 23 | 3 55 55 | 28°41'43 | 2♓14 | 18°43 | 8° 0 | 25°13 | 0°22 | 5°29 | 11°27 | 18°14 | 4°16 | 7°R20 | 8° 7 | 10°50 | n.a. | T 23 |
| W24 | 3 59 52 | 29°42'57 | 14°11 | 19°37 | 9°16 | 25°55 | 0°31 | 5°31 | 11°28 | 18°13 | 4°15 | 7°19 | 8° 4 | 10°57 | n.a. | W24 |
| T 25 | 4 3 48 | 0♐44'11 | 26° 2 | 20°25 | 10°31 | 26°36 | 0°41 | 5°32 | 11°30 | 18°12 | 4°14 | 7°16 | 8° 1 | 11° 3 | n.a. | T 25 |
| F 26 | 4 7 45 | 1°45'25 | 7♈51 | 21° 6 | 11°46 | 27°18 | 0°50 | 5°34 | 11°32 | 18°11 | 4°13 | 7°10 | 7°58 | 11°10 | n.a. | F 26 |
| S 27 | 4 11 42 | 2°46'39 | 19°44 | 21°40 | 13° 2 | 27°59 | 0°59 | 5°36 | 11°33 | 18°10 | 4°12 | 7° 1 | 7°54 | 11°17 | n.a. | S 27 |
| S 28 | 4 15 38 | 3°47'53 | 1♉42 | 22° 4 | 14°17 | 28°41 | 1° 8 | 5°38 | 11°35 | 18° 8 | 4°11 | 6°50 | 7°51 | 11°24 | n.a. | S 28 |
| M29 | 4 19 35 | 4°49'07 | 13°50 | 22°18 | 15°32 | 29°23 | 1°17 | 5°40 | 11°37 | 18° 7 | 4°10 | 6°38 | 7°48 | 11°30 | n.a. | M29 |
| T 30 | 4 23 31 | 5♐50'22 | 26♉ 7 | 22°R22 | 16♏47 | 0♏ 5 | 1♎26 | 5♓42 | 11♒39 | 18♈ 6 | 4♉ 9 | 6♒26 | 7♒45 | 11♈37 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 13s46 | 18n 4 | 4n58 | 19s12 | 1s49 | 2s40 | 1n39 | 3s20 | 0n47 | 2n34 | 1n15 | 11s55 | 2s28 | 18s21 | 0s44 | 5n33 | 2s 2 | 0n50 | 13s 9 | 18s 3 | 18s 8 | 7n24 | | n.a. |
| T 2 | 14 6 | 21 55 | 4 56 | 19 42 | 1 53 | 3 10 | 1 38 | 3 37 | 0 46 | 2 29 | 1 15 | 11 55 | 2 28 | 18 20 | 0 44 | 5 33 | 2 2 | 0 49 | 13 9 | 18 7 | 18 9 | 7 28 | | n.a. |
| W 3 | 14 26 | 24 51 | 4 41 | 20 10 | 1 57 | 3 40 | 1 38 | 3 53 | 0 46 | 2 25 | 1 15 | 11 55 | 2 28 | 18 20 | 0 44 | 5 32 | 2 1 | 0 49 | 13 9 | 18 11 | 18 10 | 7 31 | | n.a. |
| T 4 | 14 46 | 26 38 | 4 12 | 20 38 | 2 1 | 4 11 | 1 37 | 4 10 | 0 45 | 2 20 | 1 16 | 11 55 | 2 28 | 18 20 | 0 44 | 5 32 | 2 1 | 0 49 | 13 9 | 18 14 | 18 11 | 7 34 | | n.a. |
| F 5 | 15 5 | 27 5 | 3 30 | 21 5 | 2 4 | 4 41 | 1 36 | 4 26 | 0 45 | 2 16 | 1 16 | 11 55 | 2 27 | 18 20 | 0 44 | 5 31 | 2 1 | 0 48 | 13 9 | 18 16 | 18 11 | 7 37 | | n.a. |
| S 6 | 15 25 | 26 8 | 2 38 | 21 30 | 2 7 | 5 10 | 1 35 | 4 43 | 0 44 | 2 11 | 1 16 | 11 55 | 2 27 | 18 20 | 0 44 | 5 31 | 2 1 | 0 48 | 13 9 | 18 18 | 18 12 | 7 40 | | n.a. |
| S 7 | 15 44 | 23 46 | 1 36 | 21 54 | 2 10 | 5 40 | 1 34 | 4 59 | 0 44 | 2 7 | 1 16 | 11 55 | 2 27 | 18 19 | 0 44 | 5 30 | 2 1 | 0 48 | 13 9 | 18 19 | 18 13 | 7 43 | | n.a. |
| M 8 | 16 2 | 20 6 | 0 28 | 22 17 | 2 13 | 6 10 | 1 33 | 5 16 | 0 44 | 2 3 | 1 16 | 11 55 | 2 27 | 18 19 | 0 44 | 5 29 | 2 1 | 0 47 | 13 9 | 18 19 | 18 14 | 7 46 | | n.a. |
| T 9 | 16 21 | 15 18 | 0s43 | 22 39 | 2 15 | 6 39 | 1 32 | 5 32 | 0 43 | 1 59 | 1 16 | 11 55 | 2 26 | 18 19 | 0 44 | 5 29 | 2 1 | 0 47 | 13 9 | 18 19 | 18 15 | 7 49 | | n.a. |
| W10 | 16 39 | 9 37 | 1 54 | 22 59 | 2 16 | 7 9 | 1 31 | 5 49 | 0 43 | 1 54 | 1 16 | 11 55 | 2 26 | 18 19 | 0 44 | 5 28 | 2 1 | 0 47 | 13 9 | 18 19 | 18 16 | 7 52 | | n.a. |
| T 11 | 16 57 | 3 18 | 2 59 | 23 18 | 2 18 | 7 38 | 1 30 | 6 5 | 0 42 | 1 50 | 1 17 | 11 55 | 2 26 | 18 18 | 0 44 | 5 28 | 2 1 | 0 47 | 13 8 | 18 20 | 18 16 | 7 55 | | n.a. |
| F 12 | 17 14 | 3s20 | 3 54 | 23 36 | 2 18 | 8 7 | 1 29 | 6 21 | 0 42 | 1 46 | 1 17 | 11 54 | 2 26 | 18 18 | 0 44 | 5 27 | 2 1 | 0 46 | 13 8 | 18 21 | 18 17 | 7 58 | | n.a. |
| S 13 | 17 31 | 9 53 | 4 35 | 23 52 | 2 19 | 8 36 | 1 27 | 6 38 | 0 41 | 1 42 | 1 17 | 11 54 | 2 26 | 18 18 | 0 44 | 5 27 | 2 1 | 0 46 | 13 8 | 18 23 | 18 18 | 8 1 | | n.a. |
| S 14 | 17 48 | 15 57 | 4 57 | 24 6 | 2 18 | 9 5 | 1 26 | 6 54 | 0 41 | 1 38 | 1 17 | 11 54 | 2 25 | 18 17 | 0 43 | 5 26 | 2 1 | 0 46 | 13 8 | 18 26 | 18 19 | 8 4 | | n.a. |
| M15 | 18 5 | 21 3 | 4 59 | 24 19 | 2 17 | 9 34 | 1 24 | 7 10 | 0 40 | 1 34 | 1 17 | 11 53 | 2 25 | 18 17 | 0 43 | 5 26 | 2 1 | 0 45 | 13 8 | 18 29 | 18 20 | 8 8 | | n.a. |
| T 16 | 18 21 | 24 45 | 4 40 | 24 30 | 2 16 | 10 2 | 1 23 | 7 26 | 0 40 | 1 30 | 1 17 | 11 53 | 2 25 | 18 17 | 0 43 | 5 25 | 2 1 | 0 45 | 13 8 | 18 32 | 18 21 | 8 11 | | n.a. |
| W17 | 18 37 | 26 44 | 4 3 | 24 39 | 2 13 | 10 30 | 1 21 | 7 42 | 0 39 | 1 26 | 1 18 | 11 53 | 2 25 | 18 16 | 0 43 | 5 25 | 2 1 | 0 45 | 13 8 | 18 34 | 18 21 | 8 14 | | n.a. |
| T 18 | 18 53 | 26 54 | 3 13 | 24 46 | 2 10 | 10 58 | 1 20 | 7 58 | 0 39 | 1 22 | 1 18 | 11 52 | 2 24 | 18 16 | 0 43 | 5 24 | 2 1 | 0 45 | 13 8 | 18 37 | 18 22 | 8 17 | | n.a. |
| F 19 | 19 8 | 25 23 | 2 12 | 24 52 | 2 6 | 11 26 | 1 18 | 8 14 | 0 38 | 1 18 | 1 18 | 11 52 | 2 24 | 18 16 | 0 43 | 5 24 | 2 1 | 0 45 | 13 8 | 18 38 | 18 23 | 8 20 | | n.a. |
| S 20 | 19 23 | 22 28 | 1 6 | 24 55 | 2 2 | 11 53 | 1 16 | 8 30 | 0 38 | 1 14 | 1 18 | 11 51 | 2 24 | 18 15 | 0 43 | 5 23 | 2 1 | 0 44 | 13 7 | 18 39 | 18 24 | 8 23 | | n.a. |
| S 21 | 19 38 | 18 32 | 0n 2 | 24 57 | 1 56 | 12 20 | 1 14 | 8 46 | 0 37 | 1 11 | 1 18 | 11 50 | 2 24 | 18 15 | 0 43 | 5 23 | 2 1 | 0 44 | 13 7 | 18 39 | 18 25 | 8 26 | | n.a. |
| M22 | 19 52 | 13 53 | 1 7 | 24 57 | 1 49 | 12 47 | 1 13 | 9 2 | 0 37 | 1 7 | 1 18 | 11 50 | 2 24 | 18 14 | 0 43 | 5 23 | 2 1 | 0 44 | 13 7 | 18 39 | 18 26 | 8 29 | | n.a. |
| T 23 | 20 6 | 8 48 | 2 8 | 24 54 | 1 41 | 13 13 | 1 11 | 9 18 | 0 36 | 1 3 | 1 19 | 11 49 | 2 23 | 18 14 | 0 43 | 5 22 | 2 1 | 0 44 | 13 7 | 18 39 | 18 26 | 8 32 | | n.a. |
| W24 | 20 19 | 3 29 | 3 3 | 24 50 | 1 32 | 13 39 | 1 9 | 9 34 | 0 36 | 1 0 | 1 19 | 11 48 | 2 23 | 18 13 | 0 43 | 5 22 | 2 1 | 0 44 | 13 7 | 18 39 | 18 27 | 8 35 | | n.a. |
| T 25 | 20 32 | 1n54 | 3 49 | 24 44 | 1 22 | 14 5 | 1 7 | 9 49 | 0 35 | 0 56 | 1 19 | 11 48 | 2 23 | 18 13 | 0 43 | 5 21 | 2 1 | 0 43 | 13 7 | 18 40 | 18 28 | 8 38 | | n.a. |
| F 26 | 20 45 | 7 12 | 4 25 | 24 35 | 1 11 | 14 30 | 1 5 | 10 5 | 0 35 | 0 52 | 1 19 | 11 47 | 2 23 | 18 12 | 0 43 | 5 21 | 2 1 | 0 43 | 13 7 | 18 41 | 18 29 | 8 41 | | n.a. |
| S 27 | 20 57 | 12 15 | 4 49 | 24 25 | 0 58 | 14 55 | 1 3 | 10 21 | 0 34 | 0 49 | 1 19 | 11 46 | 2 22 | 18 12 | 0 43 | 5 21 | 2 1 | 0 43 | 13 6 | 18 44 | 18 30 | 8 44 | | n.a. |
| S 28 | 21 9 | 16 54 | 5 2 | 24 12 | 0 44 | 15 20 | 1 1 | 10 36 | 0 34 | 0 45 | 1 20 | 11 45 | 2 22 | 18 11 | 0 43 | 5 20 | 2 1 | 0 43 | 13 6 | 18 46 | 18 31 | 8 47 | | n.a. |
| M29 | 21 20 | 20 56 | 5 0 | 23 58 | 0 29 | 15 44 | 0 59 | 10 51 | 0 33 | 0 42 | 1 20 | 11 44 | 2 22 | 18 11 | 0 43 | 5 20 | 2 0 | 0 43 | 13 6 | 18 49 | 18 31 | 8 50 | | n.a. |
| T 30 | 21s31 | 24n 7 | 4n45 | 23s42 | 0s13 | 16s 8 | 0n57 | 11s 7 | 0n33 | 0n39 | 1n20 | 11s43 | 2s22 | 18s10 | 0s43 | 5n20 | 2s 0 | 0n43 | 13s 6 | 18s52 | 18s32 | 8n53 | | n.a. |

Julian Day Number = 1686663.5, Delta T = 03h12m39s
Ecliptic obliquity = 23°42'30, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°22'44, Lahiri = - 5°15'44 Julian Calendar 1 Nov. 96 BCE == Greg. Calendar 30 Oct. 096 BCE

The year -95 astronomical counting style corresponds to year 096 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 96 BCE
# geocentric

## DECEMBER 96 BCE (-95) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 4 27 28 | 6♐51'36 | 8♊35 | 22°R15 | 18♏ 3 | 0♏46 | 1♎34 | 5♓44 | 11♒41 | 18°R 5 | 4°R 8 | 6°R15 | 7♒42 | 11♈44 | n.a. | W 1 |
| T 2 | 4 31 24 | 7°52'50 | 21°14 | 21♐55 | 19°18 | 1°28 | 1°43 | 5°46 | 11°42 | 18♈ 4 | 4♉ 7 | 6♒ 5 | 7°38 | 11°50 | n.a. | T 2 |
| F 3 | 4 35 21 | 8°54'04 | 4♋ 4 | 21°24 | 20°33 | 2°10 | 1°51 | 5°48 | 11°44 | 18° 3 | 4° 6 | 5°58 | 7°35 | 11°57 | n.a. | F 3 |
| S 4 | 4 39 18 | 9°55'19 | 17° 5 | 20°42 | 21°49 | 2°52 | 2° 0 | 5°51 | 11°46 | 18° 3 | 4° 5 | 5°54 | 7°32 | 12° 4 | n.a. | S 4 |
| S 5 | 4 43 14 | 10°56'33 | 0♌16 | 19°48 | 23° 4 | 3°34 | 2° 8 | 5°53 | 11°48 | 18° 2 | 4° 5 | 5°D52 | 7°29 | 12°11 | n.a. | S 5 |
| M 6 | 4 47 11 | 11°57'47 | 13°40 | 18°45 | 24°19 | 4°16 | 2°16 | 5°56 | 11°50 | 18° 1 | 4° 4 | 5°52 | 7°26 | 12°17 | n.a. | M 6 |
| T 7 | 4 51 7 | 12°59'02 | 27°16 | 17°34 | 25°35 | 4°57 | 2°24 | 5°59 | 11°53 | 18° 0 | 4° 3 | 5°53 | 7°23 | 12°24 | n.a. | T 7 |
| W 8 | 4 55 4 | 14° 0'16 | 11♍ 5 | 16°17 | 26°50 | 5°39 | 2°32 | 6° 2 | 11°55 | 17°59 | 4° 2 | 5°R54 | 7°19 | 12°31 | n.a. | W 8 |
| T 9 | 4 59 0 | 15° 1'31 | 25° 8 | 14°58 | 28° 5 | 6°21 | 2°39 | 6° 5 | 11°57 | 17°58 | 4° 1 | 5°54 | 7°16 | 12°37 | n.a. | T 9 |
| F 10 | 5 2 57 | 16° 2'45 | 9♎24 | 13°37 | 29°20 | 7° 3 | 2°47 | 6° 8 | 11°59 | 17°58 | 4° 0 | 5°51 | 7°13 | 12°44 | n.a. | F 10 |
| S 11 | 5 6 53 | 17° 3'59 | 23°51 | 12°19 | 0♐36 | 7°46 | 2°54 | 6°11 | 12° 1 | 17°57 | 4° 0 | 5°47 | 7°10 | 12°51 | n.a. | S 11 |
| S 12 | 5 10 50 | 18° 5'14 | 8♏25 | 11° 5 | 1°51 | 8°28 | 3° 2 | 6°14 | 12° 4 | 17°56 | 3°59 | 5°40 | 7° 7 | 12°58 | n.a. | S 12 |
| M13 | 5 14 47 | 19° 6'28 | 23° 0 | 9°57 | 3° 6 | 9°10 | 3° 9 | 6°18 | 12° 6 | 17°56 | 3°58 | 5°33 | 7° 4 | 13° 4 | n.a. | M13 |
| T 14 | 5 18 43 | 20° 7'42 | 7♐29 | 8°57 | 4°22 | 9°52 | 3°16 | 6°21 | 12° 9 | 17°55 | 3°57 | 5°25 | 7° 0 | 13°11 | n.a. | T 14 |
| W15 | 5 22 40 | 21° 8'55 | 21°46 | 8° 6 | 5°37 | 10°34 | 3°23 | 6°25 | 12°11 | 17°54 | 3°57 | 5°18 | 6°57 | 13°18 | n.a. | W15 |
| T 16 | 5 26 36 | 22°10'08 | 5♑45 | 7°24 | 6°52 | 11°16 | 3°29 | 6°28 | 12°13 | 17°54 | 3°56 | 5°12 | 6°54 | 13°24 | n.a. | T 16 |
| F 17 | 5 30 33 | 23°11'21 | 19°21 | 6°52 | 8° 8 | 11°59 | 3°36 | 6°32 | 12°16 | 17°53 | 3°55 | 5° 9 | 6°51 | 13°31 | n.a. | F 17 |
| S 18 | 5 34 29 | 24°12'32 | 2♒34 | 6°30 | 9°23 | 12°41 | 3°42 | 6°36 | 12°18 | 17°53 | 3°54 | 5°D 8 | 6°48 | 13°38 | n.a. | S 18 |
| S 19 | 5 38 26 | 25°13'43 | 15°24 | 6°17 | 10°38 | 13°23 | 3°48 | 6°40 | 12°21 | 17°52 | 3°54 | 5° 8 | 6°44 | 13°45 | n.a. | S 19 |
| M20 | 5 42 22 | 26°14'52 | 27°54 | 6°D12 | 11°53 | 14° 6 | 3°55 | 6°44 | 12°24 | 17°52 | 3°53 | 5°10 | 6°41 | 13°51 | n.a. | M20 |
| T 21 | 5 46 19 | 27°16'01 | 10♓ 6 | 6°16 | 13° 9 | 14°48 | 4° 0 | 6°48 | 12°26 | 17°52 | 3°52 | 5°11 | 6°38 | 13°58 | n.a. | T 21 |
| W22 | 5 50 16 | 28°17'08 | 22° 7 | 6°28 | 14°24 | 15°30 | 4° 6 | 6°52 | 12°29 | 17°51 | 3°52 | 5°13 | 6°35 | 14° 5 | n.a. | W22 |
| T 23 | 5 54 12 | 29°18'15 | 4♈ 0 | 6°47 | 15°39 | 16°13 | 4°12 | 6°57 | 12°32 | 17°51 | 3°51 | 5°R13 | 6°32 | 14°11 | n.a. | T 23 |
| F 24 | 5 58 9 | 0♑19'20 | 15°51 | 7°12 | 16°54 | 16°55 | 4°17 | 7° 1 | 12°34 | 17°51 | 3°51 | 5°11 | 6°29 | 14°18 | n.a. | F 24 |
| S 25 | 6 2 5 | 1°20'24 | 27°45 | 7°43 | 18°10 | 17°38 | 4°23 | 7° 5 | 12°37 | 17°50 | 3°50 | 5° 8 | 6°25 | 14°25 | n.a. | S 25 |
| S 26 | 6 6 2 | 2°21'27 | 9♉46 | 8°20 | 19°25 | 18°20 | 4°28 | 7°10 | 12°40 | 17°50 | 3°50 | 5° 4 | 6°22 | 14°32 | n.a. | S 26 |
| M27 | 6 9 58 | 3°22'29 | 21°58 | 9° 1 | 20°40 | 19° 3 | 4°33 | 7°15 | 12°43 | 17°50 | 3°49 | 4°59 | 6°19 | 14°38 | n.a. | M27 |
| T 28 | 6 13 55 | 4°23'30 | 4♊23 | 9°47 | 21°55 | 19°45 | 4°38 | 7°19 | 12°46 | 17°50 | 3°49 | 4°53 | 6°16 | 14°45 | n.a. | T 28 |
| W29 | 6 17 52 | 5°24'29 | 17° 3 | 10°37 | 23°11 | 20°28 | 4°42 | 7°24 | 12°48 | 17°50 | 3°48 | 4°48 | 6°13 | 14°52 | n.a. | W29 |
| T 30 | 6 21 48 | 6°25'28 | 29°59 | 11°30 | 24°26 | 21°10 | 4°47 | 7°29 | 12°51 | 17°50 | 3°48 | 4°43 | 6°10 | 14°58 | n.a. | T 30 |
| F 31 | 6 25 45 | 7♑26'25 | 13♋10 | 12♐27 | 25♐41 | 21♏53 | 4♎51 | 7♓34 | 12♒54 | 17°D50 | 3♉47 | 4♒40 | 6♒ 6 | 15♈ 5 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| W 1 | 21 s42 | 26n12 | 4n17 | 23 s24 | 0n 5 | 16 s32 | 0n54 | 11 s22 | 0n32 | 0n35 | 1n20 | 11 s42 | 2 s22 | 18 s10 | 0 s43 | 5n19 | 2 s 0 | 0n42 | 13 s 6 | 18 s55 | 18 s33 | 8n56 | | | n.a. |
| T 2 | 21 52 | 26 59 | 3 35 | 23 4 | 0 24 | 16 55 | 0 52 | 11 37 | 0 32 | 0 32 | 1 20 | 11 41 | 2 21 | 18 9 | 0 43 | 5 19 | 2 0 | 0 42 | 13 5 | 18 58 | 18 34 | 8 59 | | | n.a. |
| F 3 | 22 2 | 26 20 | 2 42 | 22 43 | 0 43 | 17 17 | 0 50 | 11 52 | 0 31 | 0 29 | 1 21 | 11 40 | 2 21 | 18 9 | 0 43 | 5 19 | 2 0 | 0 42 | 13 5 | 18 59 | 18 35 | 9 2 | | | n.a. |
| S 4 | 22 11 | 24 14 | 1 39 | 22 20 | 1 3 | 17 39 | 0 48 | 12 7 | 0 31 | 0 26 | 1 21 | 11 39 | 2 21 | 18 8 | 0 43 | 5 18 | 2 0 | 0 42 | 13 5 | 19 0 | 18 36 | 9 5 | | | n.a. |
| S 5 | 22 20 | 20 48 | 0 30 | 21 56 | 1 23 | 18 1 | 0 45 | 12 22 | 0 30 | 0 23 | 1 21 | 11 38 | 2 21 | 18 7 | 0 43 | 5 18 | 2 0 | 0 42 | 13 5 | 19 1 | 18 36 | 9 8 | | | n.a. |
| M 6 | 22 29 | 16 15 | 0 s42 | 21 32 | 1 42 | 18 22 | 0 43 | 12 37 | 0 29 | 0 20 | 1 21 | 11 36 | 2 20 | 18 7 | 0 43 | 5 18 | 2 0 | 0 42 | 13 5 | 19 1 | 18 37 | 9 11 | | | n.a. |
| T 7 | 22 37 | 10 48 | 1 52 | 21 7 | 2 1 | 18 43 | 0 41 | 12 52 | 0 29 | 0 17 | 1 21 | 11 35 | 2 20 | 18 6 | 0 43 | 5 17 | 2 0 | 0 42 | 13 4 | 19 1 | 18 38 | 9 14 | | | n.a. |
| W 8 | 22 44 | 4 45 | 2 58 | 20 42 | 2 18 | 19 3 | 0 38 | 13 7 | 0 28 | 0 14 | 1 22 | 11 34 | 2 20 | 18 6 | 0 43 | 5 17 | 2 0 | 0 42 | 13 4 | 19 0 | 18 39 | 9 17 | | | n.a. |
| T 9 | 22 51 | 1 s36 | 3 53 | 20 18 | 2 34 | 19 22 | 0 36 | 13 21 | 0 28 | 0 11 | 1 22 | 11 33 | 2 20 | 18 5 | 0 43 | 5 17 | 2 0 | 0 42 | 13 4 | 19 1 | 18 40 | 9 20 | | | n.a. |
| F 10 | 22 58 | 7 58 | 4 35 | 19 55 | 2 48 | 19 41 | 0 34 | 13 36 | 0 27 | 0 8 | 1 22 | 11 31 | 2 20 | 18 4 | 0 43 | 5 17 | 2 0 | 0 42 | 13 4 | 19 1 | 18 40 | 9 23 | | | n.a. |
| S 11 | 23 4 | 14 0 | 5 1 | 19 34 | 2 59 | 20 0 | 0 31 | 13 50 | 0 26 | 0 5 | 1 22 | 11 30 | 2 19 | 18 4 | 0 43 | 5 16 | 2 0 | 0 42 | 13 4 | 19 2 | 18 41 | 9 26 | | | n.a. |
| S 12 | 23 10 | 19 18 | 5 7 | 19 15 | 3 8 | 20 18 | 0 29 | 14 5 | 0 26 | 0 2 | 1 22 | 11 28 | 2 19 | 18 3 | 0 43 | 5 16 | 2 0 | 0 42 | 13 3 | 19 4 | 18 42 | 9 29 | | | n.a. |
| M13 | 23 15 | 23 27 | 4 53 | 18 59 | 3 15 | 20 35 | 0 26 | 14 19 | 0 25 | 0 s 0 | 1 23 | 11 27 | 2 19 | 18 2 | 0 43 | 5 16 | 2 0 | 0 41 | 13 3 | 19 6 | 18 43 | 9 32 | | | n.a. |
| T 14 | 23 20 | 26 5 | 4 21 | 18 46 | 3 19 | 20 52 | 0 24 | 14 33 | 0 25 | 0 3 | 1 23 | 11 26 | 2 19 | 18 2 | 0 43 | 5 16 | 2 0 | 0 41 | 13 3 | 19 8 | 18 44 | 9 35 | | | n.a. |
| W15 | 23 25 | 26 59 | 3 33 | 18 36 | 3 21 | 21 8 | 0 21 | 14 47 | 0 24 | 0 5 | 1 23 | 11 24 | 2 19 | 18 1 | 0 43 | 5 16 | 2 0 | 0 41 | 13 3 | 19 9 | 18 45 | 9 38 | | | n.a. |
| T 16 | 23 28 | 26 7 | 2 32 | 18 29 | 3 21 | 21 23 | 0 19 | 15 1 | 0 23 | 0 8 | 1 23 | 11 22 | 2 18 | 18 0 | 0 43 | 5 16 | 1 59 | 0 41 | 13 2 | 19 11 | 18 45 | 9 41 | | | n.a. |
| F 17 | 23 32 | 23 41 | 1 24 | 18 26 | 3 19 | 21 38 | 0 16 | 15 14 | 0 23 | 0 10 | 1 24 | 11 21 | 2 18 | 17 59 | 0 42 | 5 15 | 1 59 | 0 41 | 13 2 | 19 12 | 18 46 | 9 44 | | | n.a. |
| S 18 | 23 35 | 20 2 | 0 14 | 18 26 | 3 16 | 21 53 | 0 14 | 15 28 | 0 22 | 0 13 | 1 24 | 11 19 | 2 18 | 17 59 | 0 42 | 5 15 | 1 59 | 0 41 | 13 2 | 19 12 | 18 47 | 9 47 | | | n.a. |
| S 19 | 23 37 | 15 31 | 0n56 | 18 28 | 3 11 | 22 6 | 0 11 | 15 42 | 0 21 | 0 15 | 1 24 | 11 18 | 2 18 | 17 58 | 0 42 | 5 15 | 1 59 | 0 41 | 13 2 | 19 12 | 18 48 | 9 50 | | | n.a. |
| M20 | 23 39 | 10 27 | 2 1 | 18 33 | 3 5 | 22 19 | 0 9 | 15 55 | 0 21 | 0 17 | 1 24 | 11 16 | 2 18 | 17 57 | 0 42 | 5 15 | 1 59 | 0 41 | 13 1 | 19 11 | 18 49 | 9 53 | | | n.a. |
| T 21 | 23 41 | 5 7 | 2 59 | 18 41 | 2 58 | 22 31 | 0 6 | 16 8 | 0 20 | 0 19 | 1 25 | 11 14 | 2 17 | 17 56 | 0 42 | 5 15 | 1 59 | 0 42 | 13 1 | 19 11 | 18 49 | 9 56 | | | n.a. |
| W22 | 23 42 | 0n19 | 3 48 | 18 50 | 2 50 | 22 43 | 0 4 | 16 21 | 0 19 | 0 21 | 1 25 | 11 12 | 2 17 | 17 56 | 0 42 | 5 15 | 1 59 | 0 42 | 13 1 | 19 11 | 18 50 | 9 59 | | | n.a. |
| T 23 | 23 42 | 5 41 | 4 27 | 19 1 | 2 42 | 22 54 | 0 1 | 16 34 | 0 19 | 0 23 | 1 25 | 11 11 | 2 17 | 17 55 | 0 42 | 5 15 | 1 59 | 0 42 | 13 1 | 19 11 | 18 51 | 10 2 | | | n.a. |
| F 24 | 23 42 | 10 49 | 4 54 | 19 14 | 2 33 | 23 4 | 0 s 1 | 16 47 | 0 18 | 0 25 | 1 25 | 11 9 | 2 17 | 17 54 | 0 42 | 5 15 | 1 59 | 0 42 | 13 0 | 19 11 | 18 52 | 10 5 | | | n.a. |
| S 25 | 23 42 | 15 35 | 5 9 | 19 28 | 2 24 | 23 14 | 0 3 | 17 0 | 0 17 | 0 27 | 1 25 | 11 7 | 2 17 | 17 53 | 0 42 | 5 15 | 1 59 | 0 42 | 13 0 | 19 12 | 18 53 | 10 8 | | | n.a. |
| S 26 | 23 41 | 19 48 | 5 11 | 19 43 | 2 15 | 23 23 | 0 6 | 17 13 | 0 17 | 0 29 | 1 26 | 11 5 | 2 16 | 17 52 | 0 42 | 5 15 | 1 59 | 0 42 | 13 0 | 19 13 | 18 53 | 10 11 | | | n.a. |
| M27 | 23 40 | 23 15 | 4 58 | 19 59 | 2 6 | 23 31 | 0 8 | 17 25 | 0 16 | 0 31 | 1 26 | 11 3 | 2 16 | 17 52 | 0 42 | 5 15 | 1 59 | 0 42 | 13 0 | 19 14 | 18 54 | 10 14 | | | n.a. |
| T 28 | 23 38 | 25 42 | 4 32 | 20 15 | 1 56 | 23 38 | 0 11 | 17 38 | 0 15 | 0 32 | 1 26 | 11 1 | 2 16 | 17 51 | 0 42 | 5 15 | 1 59 | 0 42 | 12 59 | 19 16 | 18 55 | 10 17 | | | n.a. |
| W29 | 23 36 | 26 54 | 3 51 | 20 32 | 1 46 | 23 45 | 0 13 | 17 50 | 0 15 | 0 34 | 1 26 | 10 59 | 2 16 | 17 50 | 0 42 | 5 15 | 1 59 | 0 42 | 12 59 | 19 17 | 18 56 | 10 20 | | | n.a. |
| T 30 | 23 33 | 26 41 | 2 59 | 20 49 | 1 36 | 23 51 | 0 16 | 18 2 | 0 14 | 0 36 | 1 27 | 10 57 | 2 16 | 17 49 | 0 42 | 5 15 | 1 59 | 0 42 | 12 59 | 19 18 | 18 57 | 10 23 | | | n.a. |
| F 31 | 23 s30 | 24n57 | 1n55 | 21 s 7 | 1n27 | 23 s56 | 0 s18 | 18 s14 | 0n13 | 0 s37 | 1n27 | 10 s55 | 2 s16 | 17 s48 | 0 s42 | 5n15 | 1 s58 | 0n42 | 12 s58 | 19 s19 | 18 s57 | 10n26 | | | n.a. |

Julian Day Number = 1686693.5, Delta T = 03h12m38s
Ecliptic obliquity = 23°42'29, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°22'40, Lahiri = - 5°15'40 Julian Calendar 1 Dec. 96 BCE == Greg. Calendar 29 Nov. 096 BCE

The year -95 astronomical counting style corresponds to year 096 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 95 BCE
# geocentric

## JANUARY 95 BCE (-94) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 29 41 | 8♉27'22 | 26♋35 | 13♐27 | 26♐56 | 22♏36 | 4♎55 | 7♓39 | 12♒57 | 17♈50 | 3°R47 | 4°R39 | 6♒ 3 | 15♈12 | n.a. | S 1 |
| S 2 | 6 33 38 | 9°28'17 | 10♌12 | 14°29 | 28°11 | 23°18 | 4°59 | 7°44 | 13° 0 | 17°50 | 3♉46 | 4°D39 | 6° 0 | 15°19 | n.a. | S 2 |
| M 3 | 6 37 34 | 10°29'11 | 24° 0 | 15°34 | 29°26 | 24° 1 | 5° 3 | 7°49 | 13° 3 | 17°50 | 3°46 | 4♒40 | 5°57 | 15°25 | n.a. | M 3 |
| T 4 | 6 41 31 | 11°30'04 | 7♍56 | 16°42 | 0♉42 | 24°44 | 5° 6 | 7°55 | 13° 6 | 17°50 | 3°46 | 4°41 | 5°54 | 15°32 | n.a. | T 4 |
| W 5 | 6 45 27 | 12°30'56 | 21°59 | 17°51 | 1°57 | 25°27 | 5°10 | 8° 0 | 13° 9 | 17°50 | 3°45 | 4°42 | 5°50 | 15°39 | n.a. | W 5 |
| T 6 | 6 49 24 | 13°31'46 | 6♎ 6 | 19° 2 | 3°12 | 26° 9 | 5°13 | 8° 5 | 13°12 | 17°50 | 3°45 | 4°43 | 5°47 | 15°45 | n.a. | T 6 |
| F 7 | 6 53 21 | 14°32'36 | 20°17 | 20°16 | 4°27 | 26°52 | 5°16 | 8°11 | 13°16 | 17°50 | 3°45 | 4°R43 | 5°44 | 15°52 | n.a. | F 7 |
| S 8 | 6 57 17 | 15°33'25 | 4♏29 | 21°30 | 5°42 | 27°35 | 5°19 | 8°16 | 13°19 | 17°51 | 3°44 | 4°43 | 5°41 | 15°59 | n.a. | S 8 |
| S 9 | 7 1 14 | 16°34'13 | 18°39 | 22°47 | 6°57 | 28°18 | 5°22 | 8°22 | 13°22 | 17°51 | 3°44 | 4°41 | 5°38 | 16° 6 | n.a. | S 9 |
| M10 | 7 5 10 | 17°35'00 | 2♐46 | 24° 4 | 8°12 | 29° 1 | 5°24 | 8°28 | 13°25 | 17°51 | 3°44 | 4°39 | 5°35 | 16°12 | n.a. | M10 |
| T 11 | 7 9 7 | 18°35'46 | 16°44 | 25°24 | 9°27 | 29°44 | 5°27 | 8°34 | 13°28 | 17°52 | 3°44 | 4°36 | 5°31 | 16°19 | n.a. | T 11 |
| W12 | 7 13 3 | 19°36'30 | 0♉33 | 26°44 | 10°42 | 0♐27 | 5°29 | 8°39 | 13°31 | 17°52 | 3°44 | 4°34 | 5°28 | 16°26 | n.a. | W12 |
| T 13 | 7 17 0 | 20°37'13 | 14° 7 | 28° 6 | 11°58 | 1°10 | 5°31 | 8°45 | 13°35 | 17°52 | 3°43 | 4°33 | 5°25 | 16°32 | n.a. | T 13 |
| F 14 | 7 20 56 | 21°37'54 | 27°25 | 29°29 | 13°13 | 1°53 | 5°33 | 8°51 | 13°38 | 17°53 | 3°43 | 4°32 | 5°22 | 16°39 | n.a. | F 14 |
| S 15 | 7 24 53 | 22°38'34 | 10♒26 | 0♉53 | 14°28 | 2°36 | 5°34 | 8°57 | 13°41 | 17°53 | 3°43 | 4°D32 | 5°19 | 16°46 | n.a. | S 15 |
| S 16 | 7 28 50 | 23°39'12 | 23°10 | 2°18 | 15°43 | 3°19 | 5°36 | 9° 3 | 13°44 | 17°54 | 3°43 | 4°32 | 5°16 | 16°53 | n.a. | S 16 |
| M17 | 7 32 46 | 24°39'48 | 5♓37 | 3°44 | 16°58 | 4° 2 | 5°37 | 9°10 | 13°48 | 17°54 | 3°43 | 4°33 | 5°12 | 16°59 | n.a. | M17 |
| T 18 | 7 36 43 | 25°40'23 | 17°50 | 5°12 | 18°13 | 4°45 | 5°38 | 9°16 | 13°51 | 17°55 | 3°43 | 4°34 | 5° 9 | 17° 6 | n.a. | T 18 |
| W19 | 7 40 39 | 26°40'55 | 29°52 | 6°40 | 19°28 | 5°28 | 5°39 | 9°22 | 13°54 | 17°56 | 3°43 | 4°35 | 5° 6 | 17°13 | n.a. | W19 |
| T 20 | 7 44 36 | 27°41'26 | 11♈47 | 8° 9 | 20°43 | 6°12 | 5°40 | 9°28 | 13°58 | 17°56 | 3°D43 | 4°36 | 5° 3 | 17°19 | n.a. | T 20 |
| F 21 | 7 48 32 | 28°41'54 | 23°39 | 9°39 | 21°58 | 6°55 | 5°40 | 9°35 | 14° 1 | 17°57 | 3°43 | 4°R36 | 5° 0 | 17°26 | n.a. | F 21 |
| S 22 | 7 52 29 | 29°42'21 | 5♉33 | 11°11 | 23°13 | 7°38 | 5°40 | 9°41 | 14° 4 | 17°58 | 3°43 | 4°36 | 4°56 | 17°33 | n.a. | S 22 |
| S 23 | 7 56 25 | 0♒42'45 | 17°34 | 12°43 | 24°28 | 8°21 | 5°R40 | 9°48 | 14° 8 | 17°58 | 3°43 | 4°36 | 4°53 | 17°40 | n.a. | S 23 |
| M24 | 8 0 22 | 1°43'08 | 29°46 | 14°16 | 25°43 | 9° 4 | 5°40 | 9°54 | 14°11 | 17°59 | 3°43 | 4°36 | 4°50 | 17°46 | n.a. | M24 |
| T 25 | 8 4 19 | 2°43'29 | 12♊13 | 15°50 | 26°58 | 9°48 | 5°40 | 10° 1 | 14°15 | 18° 0 | 3°43 | 4°35 | 4°47 | 17°53 | n.a. | T 25 |
| W26 | 8 8 15 | 3°43'47 | 24°58 | 17°26 | 28°12 | 10°31 | 5°40 | 10° 7 | 14°18 | 18° 1 | 3°43 | 4°35 | 4°44 | 18° 0 | n.a. | W26 |
| T 27 | 8 12 12 | 4°44'04 | 8♋ 4 | 19° 2 | 29°27 | 11°14 | 5°39 | 10°14 | 14°21 | 18° 2 | 3°43 | 4°D35 | 4°41 | 18° 6 | n.a. | T 27 |
| F 28 | 8 16 8 | 5°44'19 | 21°31 | 20°39 | 0♒42 | 11°58 | 5°38 | 10°21 | 14°25 | 18° 3 | 3°44 | 4°35 | 4°37 | 18°13 | n.a. | F 28 |
| S 29 | 8 20 5 | 6°44'31 | 5♌18 | 22°17 | 1°57 | 12°41 | 5°37 | 10°28 | 14°28 | 18° 4 | 3°44 | 4°R35 | 4°34 | 18°20 | n.a. | S 29 |
| S 30 | 8 24 1 | 7°44'42 | 19°22 | 23°56 | 3°12 | 13°24 | 5°36 | 10°34 | 14°32 | 18° 5 | 3°44 | 4°35 | 4°31 | 18°27 | n.a. | S 30 |
| M31 | 8 27 58 | 8♒44'51 | 3♍39 | 25♉37 | 4♒27 | 14♐ 8 | 5♎34 | 10♓41 | 14♒35 | 18♈ 6 | 3♉44 | 4♒35 | 4♒28 | 18♈33 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23s26 | 21n48 | 0n44 | 21s24 | 1n17 | 24s 1 | 0s20 | 18s26 | 0n12 | 0s39 | 1n27 | 10s53 | 2s15 | 17s47 | 0s42 | 5n15 | 1s58 | 0n42 | 12s58 | 19s19 | 18s58 | 10n28 | | n.a. |
| S 2 | 23 22 | 17 24 | 0s31 | 21 41 | 1 7 | 24 4 | 0 23 | 18 37 | 0 12 | 0 40 | 1 27 | 10 51 | 2 15 | 17 46 | 0 42 | 5 15 | 1 58 | 0 43 | 12 58 | 19 19 | 18 59 | 10 31 | | n.a. |
| M 3 | 23 17 | 12 2 | 1 44 | 21 58 | 0 58 | 24 7 | 0 25 | 18 49 | 0 11 | 0 41 | 1 28 | 10 49 | 2 15 | 17 45 | 0 42 | 5 15 | 1 58 | 0 43 | 12 58 | 19 19 | 19 0 | 10 34 | | n.a. |
| T 4 | 23 12 | 6 1 | 2 53 | 22 14 | 0 48 | 24 10 | 0 27 | 19 0 | 0 10 | 0 42 | 1 28 | 10 47 | 2 15 | 17 45 | 0 42 | 5 15 | 1 58 | 0 43 | 12 57 | 19 18 | 19 1 | 10 37 | | n.a. |
| W 5 | 23 7 | 0s19 | 3 52 | 22 30 | 0 39 | 24 11 | 0 30 | 19 11 | 0 9 | 0 44 | 1 28 | 10 45 | 2 15 | 17 44 | 0 42 | 5 15 | 1 58 | 0 43 | 12 57 | 19 18 | 19 1 | 10 40 | | n.a. |
| T 6 | 23 1 | 6 41 | 4 37 | 22 45 | 0 30 | 24 12 | 0 32 | 19 22 | 0 9 | 0 45 | 1 29 | 10 42 | 2 15 | 17 43 | 0 42 | 5 16 | 1 58 | 0 43 | 12 57 | 19 18 | 19 2 | 10 43 | | n.a. |
| F 7 | 22 54 | 12 43 | 5 5 | 23 0 | 0 21 | 24 12 | 0 34 | 19 33 | 0 8 | 0 46 | 1 29 | 10 40 | 2 14 | 17 42 | 0 42 | 5 16 | 1 58 | 0 43 | 12 56 | 19 18 | 19 3 | 10 46 | | n.a. |
| S 8 | 22 47 | 18 5 | 5 15 | 23 14 | 0 12 | 24 11 | 0 36 | 19 44 | 0 7 | 0 47 | 1 29 | 10 38 | 2 14 | 17 41 | 0 42 | 5 16 | 1 58 | 0 44 | 12 56 | 19 18 | 19 4 | 10 49 | | n.a. |
| S 9 | 22 40 | 22 27 | 5 6 | 23 27 | 0 4 | 24 10 | 0 38 | 19 54 | 0 6 | 0 47 | 1 29 | 10 36 | 2 14 | 17 40 | 0 42 | 5 16 | 1 58 | 0 44 | 12 56 | 19 18 | 19 5 | 10 52 | | n.a. |
| M10 | 22 32 | 25 29 | 4 38 | 23 39 | 0s 5 | 24 7 | 0 40 | 20 4 | 0 6 | 0 48 | 1 30 | 10 33 | 2 14 | 17 39 | 0 42 | 5 16 | 1 58 | 0 44 | 12 56 | 19 19 | 19 5 | 10 55 | | n.a. |
| T 11 | 22 24 | 26 55 | 3 54 | 23 50 | 0 13 | 24 4 | 0 43 | 20 14 | 0 5 | 0 49 | 1 30 | 10 31 | 2 14 | 17 38 | 0 42 | 5 16 | 1 58 | 0 44 | 12 55 | 19 20 | 19 6 | 10 58 | | n.a. |
| W12 | 22 15 | 26 39 | 2 57 | 24 1 | 0 21 | 24 1 | 0 45 | 20 24 | 0 4 | 0 50 | 1 30 | 10 29 | 2 14 | 17 37 | 0 42 | 5 17 | 1 58 | 0 44 | 12 55 | 19 20 | 19 7 | 11 1 | | n.a. |
| T 13 | 22 6 | 24 47 | 1 50 | 24 10 | 0 29 | 23 56 | 0 47 | 20 34 | 0 3 | 0 50 | 1 30 | 10 26 | 2 14 | 17 36 | 0 42 | 5 17 | 1 58 | 0 45 | 12 55 | 19 20 | 19 8 | 11 3 | | n.a. |
| F 14 | 21 57 | 21 33 | 0 39 | 24 18 | 0 36 | 23 51 | 0 49 | 20 44 | 0 2 | 0 51 | 1 31 | 10 24 | 2 13 | 17 35 | 0 42 | 5 17 | 1 58 | 0 45 | 12 54 | 19 21 | 19 8 | 11 6 | | n.a. |
| S 15 | 21 47 | 17 18 | 0n33 | 24 26 | 0 43 | 23 45 | 0 50 | 20 53 | 0 2 | 0 51 | 1 31 | 10 21 | 2 13 | 17 34 | 0 42 | 5 17 | 1 57 | 0 45 | 12 54 | 19 21 | 19 9 | 11 9 | | n.a. |
| S 16 | 21 37 | 12 21 | 1 41 | 24 31 | 0 50 | 23 38 | 0 52 | 21 2 | 0 1 | 0 51 | 1 31 | 10 19 | 2 13 | 17 33 | 0 42 | 5 18 | 1 57 | 0 45 | 12 54 | 19 21 | 19 10 | 11 12 | | n.a. |
| M17 | 21 26 | 7 1 | 2 44 | 24 36 | 0 57 | 23 31 | 0 54 | 21 11 | 0 0 | 0 52 | 1 31 | 10 16 | 2 13 | 17 32 | 0 42 | 5 18 | 1 57 | 0 46 | 12 53 | 19 20 | 19 11 | 11 15 | | n.a. |
| T 18 | 21 15 | 1 32 | 3 37 | 24 40 | 1 3 | 23 23 | 0 56 | 21 20 | 0s 1 | 0 52 | 1 32 | 10 14 | 2 13 | 17 31 | 0 42 | 5 18 | 1 57 | 0 46 | 12 53 | 19 20 | 19 12 | 11 18 | | n.a. |
| W19 | 21 3 | 3n55 | 4 21 | 24 42 | 1 10 | 23 14 | 0 58 | 21 29 | 0 2 | 0 52 | 1 32 | 10 11 | 2 13 | 17 30 | 0 42 | 5 18 | 1 57 | 0 46 | 12 53 | 19 20 | 19 12 | 11 21 | | n.a. |
| T 20 | 20 51 | 9 11 | 4 52 | 24 43 | 1 16 | 23 4 | 0 59 | 21 37 | 0 2 | 0 52 | 1 32 | 10 9 | 2 13 | 17 29 | 0 42 | 5 19 | 1 57 | 0 46 | 12 53 | 19 20 | 19 13 | 11 24 | | n.a. |
| F 21 | 20 39 | 14 5 | 5 11 | 24 42 | 1 21 | 22 54 | 1 1 | 21 46 | 0 3 | 0 52 | 1 32 | 10 6 | 2 13 | 17 29 | 0 42 | 5 19 | 1 57 | 0 47 | 12 52 | 19 20 | 19 14 | 11 26 | | n.a. |
| S 22 | 20 26 | 18 29 | 5 17 | 24 40 | 1 27 | 22 43 | 1 3 | 21 54 | 0 4 | 0 52 | 1 33 | 10 4 | 2 12 | 17 28 | 0 42 | 5 19 | 1 57 | 0 47 | 12 52 | 19 20 | 19 15 | 11 29 | | n.a. |
| S 23 | 20 13 | 22 12 | 5 9 | 24 37 | 1 32 | 22 31 | 1 4 | 22 2 | 0 5 | 0 51 | 1 33 | 10 1 | 2 12 | 17 27 | 0 42 | 5 20 | 1 57 | 0 47 | 12 52 | 19 20 | 19 15 | 11 32 | | n.a. |
| M24 | 20 0 | 25 0 | 4 47 | 24 32 | 1 36 | 22 19 | 1 6 | 22 9 | 0 6 | 0 51 | 1 33 | 9 59 | 2 12 | 17 26 | 0 42 | 5 20 | 1 57 | 0 48 | 12 51 | 19 20 | 19 16 | 11 35 | | n.a. |
| T 25 | 19 46 | 26 40 | 4 11 | 24 25 | 1 41 | 22 6 | 1 7 | 22 17 | 0 7 | 0 51 | 1 34 | 9 56 | 2 12 | 17 25 | 0 42 | 5 20 | 1 57 | 0 48 | 12 51 | 19 20 | 19 17 | 11 38 | | n.a. |
| W26 | 19 32 | 26 59 | 3 22 | 24 17 | 1 45 | 21 52 | 1 9 | 22 24 | 0 8 | 0 50 | 1 34 | 9 53 | 2 12 | 17 24 | 0 42 | 5 21 | 1 57 | 0 48 | 12 51 | 19 20 | 19 18 | 11 41 | | n.a. |
| T 27 | 19 18 | 25 49 | 2 22 | 24 8 | 1 48 | 21 38 | 1 10 | 22 31 | 0 9 | 0 50 | 1 34 | 9 51 | 2 12 | 17 23 | 0 42 | 5 21 | 1 57 | 0 49 | 12 50 | 19 20 | 19 19 | 11 44 | | n.a. |
| F 28 | 19 3 | 23 9 | 1 12 | 23 57 | 1 52 | 21 23 | 1 11 | 22 38 | 0 9 | 0 49 | 1 34 | 9 48 | 2 12 | 17 22 | 0 42 | 5 22 | 1 57 | 0 49 | 12 50 | 19 20 | 19 19 | 11 46 | | n.a. |
| S 29 | 18 48 | 19 6 | 0s 4 | 23 44 | 1 55 | 21 8 | 1 13 | 22 45 | 0 10 | 0 49 | 1 35 | 9 45 | 2 12 | 17 20 | 0 42 | 5 22 | 1 57 | 0 49 | 12 50 | 19 20 | 19 20 | 11 49 | | n.a. |
| S 30 | 18 32 | 13 54 | 1 21 | 23 29 | 1 58 | 20 51 | 1 14 | 22 51 | 0 11 | 0 48 | 1 35 | 9 43 | 2 12 | 17 19 | 0 42 | 5 23 | 1 56 | 0 50 | 12 50 | 19 20 | 19 21 | 11 52 | | n.a. |
| M31 | 18s17 | 7n53 | 2s34 | 23s13 | 2s 0 | 20s35 | 1s15 | 22s57 | 0s12 | 0s47 | 1n35 | 9s40 | 2s12 | 17s18 | 0s42 | 5n23 | 1s56 | 0n50 | 12s49 | 19s20 | 19s22 | 11n55 | | n.a. |

Julian Day Number = 1686724.5, Delta T = 03h12m37s
Ecliptic obliquity = 23°42'29, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°22'36, Lahiri = - 5°15'36 Julian Calendar 1 Jan. 95 BCE == Greg. Calendar 30 Dec. 096 BCE

The year -94 astronomical counting style corresponds to year 095 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 95 BCE
# geocentric

## FEBRUARY 95 BCE (-94) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 31 54 | 9♒44'57 | 18♍ 4 | 27♑18 | 5♒42 | 14♐51 | 5°R33 | 10♓48 | 14♒38 | 18♈ 7 | 3♉44 | 4°R34 | 4♒25 | 18♈40 | n.a. | T 1 |
| W 2 | 8 35 51 | 10°45'03 | 2♎32 | 29° 0 | 6°56 | 15°35 | 5♎31 | 10°55 | 14°42 | 18° 8 | 3°45 | 4♒34 | 4°22 | 18°47 | n.a. | W 2 |
| T 3 | 8 39 48 | 11°45'06 | 16°58 | 0♒44 | 8°11 | 16°18 | 5°29 | 11° 2 | 14°45 | 18° 9 | 3°45 | 4°33 | 4°18 | 18°53 | n.a. | T 3 |
| F 4 | 8 43 44 | 12°45'08 | 1♏18 | 2°28 | 9°26 | 17° 2 | 5°27 | 11° 9 | 14°49 | 18°10 | 3°45 | 4°32 | 4°15 | 19° 0 | n.a. | F 4 |
| S 5 | 8 47 41 | 13°45'08 | 15°29 | 4°14 | 10°41 | 17°45 | 5°25 | 11°16 | 14°52 | 18°11 | 3°46 | 4°D32 | 4°12 | 19° 7 | n.a. | S 5 |
| S 6 | 8 51 37 | 14°45'07 | 29°28 | 6° 0 | 11°56 | 18°29 | 5°22 | 11°23 | 14°56 | 18°12 | 3°46 | 4°33 | 4° 9 | 19°14 | n.a. | S 6 |
| M 7 | 8 55 34 | 15°45'03 | 13♐15 | 7°48 | 13°10 | 19°12 | 5°19 | 11°30 | 14°59 | 18°14 | 3°46 | 4°33 | 4° 6 | 19°20 | n.a. | M 7 |
| T 8 | 8 59 30 | 16°44'59 | 26°48 | 9°37 | 14°25 | 19°56 | 5°17 | 11°38 | 15° 3 | 18°15 | 3°47 | 4°34 | 4° 2 | 19°27 | n.a. | T 8 |
| W 9 | 9 3 27 | 17°44'52 | 10♑ 9 | 11°27 | 15°40 | 20°40 | 5°14 | 11°45 | 15° 6 | 18°16 | 3°47 | 4°35 | 3°59 | 19°34 | n.a. | W 9 |
| T 10 | 9 7 23 | 18°44'43 | 23°17 | 13°18 | 16°55 | 21°23 | 5°10 | 11°52 | 15° 9 | 18°17 | 3°48 | 4°36 | 3°56 | 19°41 | n.a. | T 10 |
| F 11 | 9 11 20 | 19°44'33 | 6♒12 | 15°11 | 18° 9 | 22° 7 | 5° 7 | 11°59 | 15°13 | 18°19 | 3°48 | 4°R37 | 3°53 | 19°47 | n.a. | F 11 |
| S 12 | 9 15 17 | 20°44'20 | 18°54 | 17° 4 | 19°24 | 22°51 | 5° 3 | 12° 7 | 15°16 | 18°20 | 3°49 | 4°36 | 3°50 | 19°54 | n.a. | S 12 |
| S 13 | 9 19 13 | 21°44'05 | 1♓24 | 18°59 | 20°39 | 23°34 | 5° 0 | 12°14 | 15°20 | 18°22 | 3°49 | 4°35 | 3°47 | 20° 1 | n.a. | S 13 |
| M14 | 9 23 10 | 22°43'48 | 13°42 | 20°54 | 21°53 | 24°18 | 4°56 | 12°21 | 15°23 | 18°23 | 3°50 | 4°32 | 3°43 | 20° 7 | n.a. | M14 |
| T 15 | 9 27 6 | 23°43'29 | 25°51 | 22°51 | 23° 8 | 25° 2 | 4°52 | 12°29 | 15°27 | 18°24 | 3°50 | 4°29 | 3°40 | 20°14 | n.a. | T 15 |
| W16 | 9 31 3 | 24°43'08 | 7♈51 | 24°48 | 24°23 | 25°45 | 4°47 | 12°36 | 15°30 | 18°26 | 3°51 | 4°26 | 3°37 | 20°21 | n.a. | W16 |
| T 17 | 9 34 59 | 25°42'44 | 19°45 | 26°47 | 25°37 | 26°29 | 4°43 | 12°43 | 15°33 | 18°27 | 3°51 | 4°23 | 3°34 | 20°28 | n.a. | T 17 |
| F 18 | 9 38 56 | 26°42'18 | 1♉37 | 28°46 | 26°52 | 27°13 | 4°38 | 12°51 | 15°37 | 18°29 | 3°52 | 4°20 | 3°31 | 20°34 | n.a. | F 18 |
| S 19 | 9 42 52 | 27°41'50 | 13°30 | 0♓46 | 28° 6 | 27°56 | 4°34 | 12°58 | 15°40 | 18°30 | 3°53 | 4°18 | 3°28 | 20°41 | n.a. | S 19 |
| S 20 | 9 46 49 | 28°41'19 | 25°29 | 2°47 | 29°21 | 28°40 | 4°29 | 13° 6 | 15°44 | 18°32 | 3°53 | 4°D17 | 3°24 | 20°48 | n.a. | S 20 |
| M21 | 9 50 46 | 29°40'46 | 7♊38 | 4°48 | 0♓36 | 29°24 | 4°24 | 13°13 | 15°47 | 18°34 | 3°54 | 4°17 | 3°21 | 20°54 | n.a. | M21 |
| T 22 | 9 54 42 | 0♓40'10 | 20° 2 | 6°49 | 1°50 | 0♑ 8 | 4°18 | 13°21 | 15°50 | 18°35 | 3°55 | 4°18 | 3°18 | 21° 1 | n.a. | T 22 |
| W23 | 9 58 39 | 1°39'33 | 2♋46 | 8°50 | 3° 5 | 0°52 | 4°13 | 13°28 | 15°54 | 18°37 | 3°55 | 4°20 | 3°15 | 21° 8 | n.a. | W23 |
| T 24 | 10 2 35 | 2°38'52 | 15°53 | 10°51 | 4°19 | 1°35 | 4° 8 | 13°36 | 15°57 | 18°39 | 3°56 | 4°22 | 3°12 | 21°15 | n.a. | T 24 |
| F 25 | 10 6 32 | 3°38'10 | 29°25 | 12°51 | 5°34 | 2°19 | 4° 2 | 13°43 | 16° 0 | 18°40 | 3°57 | 4°R23 | 3° 8 | 21°21 | n.a. | F 25 |
| S 26 | 10 10 28 | 4°37'25 | 13♌23 | 14°50 | 6°48 | 3° 3 | 3°56 | 13°51 | 16° 4 | 18°42 | 3°58 | 4°22 | 3° 5 | 21°28 | n.a. | S 26 |
| S 27 | 10 14 25 | 5°36'38 | 27°44 | 16°48 | 8° 2 | 3°47 | 3°50 | 13°59 | 16° 7 | 18°44 | 3°58 | 4°21 | 3° 2 | 21°35 | n.a. | S 27 |
| M28 | 10 18 21 | 6♓35'48 | 12♍25 | 18♓45 | 9♓17 | 4♑31 | 3♎44 | 14♓ 6 | 16♒10 | 18♈46 | 3♉59 | 4♒18 | 2♒59 | 21♈42 | n.a. | M28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 18s 0 | 1n25 | 3s38 | 22s55 | 2s 2 | 20s17 | 1s16 | 23s 3 | 0s13 | 0s46 | 1n35 | 9s37 | 2s11 | 17s17 | 0s42 | 5n23 | 1s56 | 0n50 | 12s49 | 19s20 | 19s22 | 11n58 | | n.a. |
| W 2 | 17 44 | 5s 7 | 4 29 | 22 36 | 2 3 | 19 59 | 1 17 | 23 9 | 0 14 | 0 45 | 1 36 | 9 34 | 2 11 | 17 16 | 0 42 | 5 24 | 1 56 | 0 51 | 12 49 | 19 20 | 19 23 | 12 1 | | n.a. |
| T 3 | 17 27 | 11 23 | 5 2 | 22 14 | 2 4 | 19 41 | 1 18 | 23 15 | 0 15 | 0 44 | 1 36 | 9 32 | 2 11 | 17 15 | 0 42 | 5 24 | 1 56 | 0 51 | 12 48 | 19 20 | 19 24 | 12 3 | | n.a. |
| F 4 | 17 10 | 16 59 | 5 16 | 21 51 | 2 5 | 19 22 | 1 19 | 23 20 | 0 16 | 0 43 | 1 36 | 9 29 | 2 11 | 17 14 | 0 42 | 5 25 | 1 56 | 0 52 | 12 48 | 19 20 | 19 25 | 12 6 | | n.a. |
| S 5 | 16 53 | 21 36 | 5 11 | 21 26 | 2 5 | 19 2 | 1 20 | 23 25 | 0 17 | 0 42 | 1 36 | 9 26 | 2 11 | 17 13 | 0 42 | 5 25 | 1 56 | 0 52 | 12 48 | 19 21 | 19 25 | 12 9 | | n.a. |
| S 6 | 16 35 | 24 56 | 4 47 | 21 0 | 2 5 | 18 42 | 1 21 | 23 30 | 0 18 | 0 41 | 1 37 | 9 23 | 2 11 | 17 12 | 0 42 | 5 26 | 1 56 | 0 52 | 12 47 | 19 20 | 19 26 | 12 12 | | n.a. |
| M 7 | 16 18 | 26 44 | 4 7 | 20 31 | 2 4 | 18 21 | 1 21 | 23 34 | 0 19 | 0 40 | 1 37 | 9 21 | 2 11 | 17 11 | 0 42 | 5 26 | 1 56 | 0 53 | 12 47 | 19 20 | 19 27 | 12 15 | | n.a. |
| T 8 | 16 0 | 26 54 | 3 14 | 20 1 | 2 3 | 18 0 | 1 22 | 23 39 | 0 20 | 0 38 | 1 37 | 9 18 | 2 11 | 17 10 | 0 42 | 5 27 | 1 56 | 0 53 | 12 47 | 19 20 | 19 28 | 12 17 | | n.a. |
| W 9 | 15 41 | 25 30 | 2 11 | 19 29 | 2 1 | 17 38 | 1 23 | 23 43 | 0 21 | 0 37 | 1 37 | 9 15 | 2 11 | 17 9 | 0 42 | 5 28 | 1 56 | 0 54 | 12 47 | 19 20 | 19 28 | 12 20 | | n.a. |
| T 10 | 15 22 | 22 42 | 1 2 | 18 55 | 1 59 | 17 16 | 1 23 | 23 47 | 0 22 | 0 35 | 1 37 | 9 12 | 2 11 | 17 8 | 0 42 | 5 28 | 1 56 | 0 54 | 12 46 | 19 20 | 19 29 | 12 23 | | n.a. |
| F 11 | 15 4 | 18 48 | 0n 9 | 18 19 | 1 56 | 16 53 | 1 24 | 23 51 | 0 23 | 0 34 | 1 38 | 9 9 | 2 11 | 17 7 | 0 42 | 5 29 | 1 56 | 0 54 | 12 46 | 19 20 | 19 30 | 12 26 | | n.a. |
| S 12 | 14 44 | 14 5 | 1 18 | 17 41 | 1 53 | 16 30 | 1 24 | 23 54 | 0 24 | 0 32 | 1 38 | 9 6 | 2 11 | 17 6 | 0 42 | 5 29 | 1 56 | 0 55 | 12 46 | 19 20 | 19 31 | 12 29 | | n.a. |
| S 13 | 14 25 | 8 53 | 2 23 | 17 2 | 1 49 | 16 6 | 1 25 | 23 58 | 0 25 | 0 30 | 1 38 | 9 3 | 2 11 | 17 5 | 0 42 | 5 30 | 1 56 | 0 55 | 12 45 | 19 20 | 19 31 | 12 31 | | n.a. |
| M14 | 14 6 | 3 25 | 3 19 | 16 20 | 1 45 | 15 42 | 1 25 | 24 1 | 0 26 | 0 29 | 1 38 | 9 1 | 2 11 | 17 4 | 0 42 | 5 30 | 1 56 | 0 56 | 12 45 | 19 21 | 19 32 | 12 34 | | n.a. |
| T 15 | 13 46 | 2n 5 | 4 6 | 15 37 | 1 40 | 15 18 | 1 25 | 24 3 | 0 27 | 0 27 | 1 39 | 8 58 | 2 11 | 17 3 | 0 42 | 5 31 | 1 56 | 0 56 | 12 45 | 19 21 | 19 33 | 12 37 | | n.a. |
| W16 | 13 26 | 7 27 | 4 41 | 14 53 | 1 34 | 14 53 | 1 25 | 24 6 | 0 28 | 0 25 | 1 39 | 8 55 | 2 11 | 17 2 | 0 42 | 5 32 | 1 55 | 0 57 | 12 44 | 19 22 | 19 34 | 12 40 | | n.a. |
| T 17 | 13 5 | 12 29 | 5 4 | 14 6 | 1 28 | 14 28 | 1 25 | 24 8 | 0 29 | 0 23 | 1 39 | 8 52 | 2 10 | 17 1 | 0 42 | 5 32 | 1 55 | 0 57 | 12 44 | 19 23 | 19 34 | 12 43 | | n.a. |
| F 18 | 12 45 | 17 4 | 5 14 | 13 18 | 1 21 | 14 2 | 1 25 | 24 10 | 0 30 | 0 21 | 1 39 | 8 49 | 2 10 | 17 0 | 0 42 | 5 33 | 1 55 | 0 58 | 12 44 | 19 24 | 19 35 | 12 45 | | n.a. |
| S 19 | 12 24 | 20 59 | 5 10 | 12 29 | 1 14 | 13 36 | 1 25 | 24 12 | 0 31 | 0 19 | 1 39 | 8 46 | 2 10 | 16 59 | 0 42 | 5 34 | 1 55 | 0 58 | 12 44 | 19 24 | 19 36 | 12 48 | | n.a. |
| S 20 | 12 4 | 24 5 | 4 53 | 11 38 | 1 6 | 13 9 | 1 25 | 24 14 | 0 32 | 0 17 | 1 40 | 8 43 | 2 10 | 16 58 | 0 42 | 5 34 | 1 55 | 0 59 | 12 43 | 19 24 | 19 37 | 12 51 | | n.a. |
| M21 | 11 43 | 26 9 | 4 23 | 10 45 | 0 58 | 12 43 | 1 25 | 24 15 | 0 33 | 0 15 | 1 40 | 8 40 | 2 10 | 16 57 | 0 42 | 5 35 | 1 55 | 0 59 | 12 43 | 19 24 | 19 37 | 12 54 | | n.a. |
| T 22 | 11 22 | 26 59 | 3 40 | 9 52 | 0 49 | 12 16 | 1 25 | 24 16 | 0 34 | 0 12 | 1 40 | 8 37 | 2 10 | 16 56 | 0 42 | 5 35 | 1 55 | 0 59 | 12 43 | 19 24 | 19 38 | 12 56 | | n.a. |
| W23 | 11 0 | 26 25 | 2 45 | 8 57 | 0 39 | 11 48 | 1 25 | 24 17 | 0 35 | 0 10 | 1 40 | 8 34 | 2 10 | 16 55 | 0 42 | 5 36 | 1 55 | 1 0 | 12 43 | 19 23 | 19 39 | 12 59 | | n.a. |
| T 24 | 10 39 | 24 24 | 1 40 | 8 2 | 0 29 | 11 20 | 1 24 | 24 18 | 0 36 | 0 8 | 1 40 | 8 31 | 2 10 | 16 54 | 0 42 | 5 37 | 1 55 | 1 0 | 12 42 | 19 23 | 19 40 | 13 2 | | n.a. |
| F 25 | 10 17 | 20 57 | 0 27 | 7 6 | 0 19 | 10 52 | 1 24 | 24 18 | 0 37 | 0 5 | 1 40 | 8 28 | 2 10 | 16 53 | 0 42 | 5 38 | 1 55 | 1 1 | 12 42 | 19 23 | 19 40 | 13 5 | | n.a. |
| S 26 | 9 55 | 16 12 | 0s49 | 6 9 | 0 8 | 10 24 | 1 23 | 24 18 | 0 38 | 0 3 | 1 41 | 8 25 | 2 10 | 16 52 | 0 42 | 5 38 | 1 55 | 1 1 | 12 42 | 19 23 | 19 41 | 13 7 | | n.a. |
| S 27 | 9 33 | 10 27 | 2 4 | 5 13 | 0n 3 | 9 56 | 1 23 | 24 18 | 0 39 | 0 0 | 1 41 | 8 22 | 2 10 | 16 51 | 0 42 | 5 39 | 1 55 | 1 2 | 12 41 | 19 23 | 19 42 | 13 10 | | n.a. |
| M28 | 9s11 | 4n 1 | 3s13 | 4s16 | 0n15 | 9s27 | 1s22 | 24s18 | 0s40 | 0n 2 | 1n41 | 8s19 | 2s10 | 16s50 | 0s42 | 5n40 | 1s55 | 1n 2 | 12s41 | 19s24 | 19s43 | 13n13 | | n.a. |

Julian Day Number = 1686755.5, Delta T = 03h12m36s
Ecliptic obliquity = 23°42'29, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°22'32, Lahiri = - 5°15'31 Julian Calendar 1 Feb. 95 BCE == Greg. Calendar 30 Jan. 095 BCE

The year -94 astronomical counting style corresponds to year 095 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 95 BCE
# geocentric

## MARCH 95 BCE (-94) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 10 22 18 | 7♓34'56 | 27♍17 | 20♓39 | 10♓31 | 5♉15 | 3°R38 | 14♓14 | 16♒13 | 18♈47 | 4♉ 0 | 4°R13 | 2♒56 | 21♈48 | n.a. | T 1 |
| W 2 | 10 26 14 | 8°34'03 | 12♎14 | 22°31 | 11°46 | 5°58 | 3♎32 | 14°21 | 16°17 | 18°49 | 4° 1 | 4♒ 8 | 2°53 | 21°55 | n.a. | W 2 |
| T 3 | 10 30 11 | 9°33'07 | 27° 5 | 24°21 | 13° 0 | 6°42 | 3°26 | 14°29 | 16°20 | 18°51 | 4° 2 | 4° 3 | 2°49 | 22° 2 | n.a. | T 3 |
| F 4 | 10 34 8 | 10°32'10 | 11♏44 | 26° 7 | 14°14 | 7°26 | 3°19 | 14°37 | 16°23 | 18°53 | 4° 2 | 3°59 | 2°46 | 22° 8 | n.a. | F 4 |
| S 5 | 10 38 4 | 11°31'11 | 26° 6 | 27°49 | 15°29 | 8°10 | 3°13 | 14°44 | 16°26 | 18°55 | 4° 3 | 3°56 | 2°43 | 22°15 | n.a. | S 5 |
| S 6 | 10 42 1 | 12°30'10 | 10♐ 7 | 29°28 | 16°43 | 8°54 | 3° 6 | 14°52 | 16°30 | 18°56 | 4° 4 | 3°D55 | 2°40 | 22°22 | n.a. | S 6 |
| M 7 | 10 45 57 | 13°29'07 | 23°47 | 1♈ 2 | 17°57 | 9°38 | 2°59 | 15° 0 | 16°33 | 18°58 | 4° 5 | 3°56 | 2°37 | 22°29 | n.a. | M 7 |
| T 8 | 10 49 54 | 14°28'02 | 7♉ 8 | 2°32 | 19°12 | 10°22 | 2°52 | 15° 7 | 16°36 | 19° 0 | 4° 6 | 3°57 | 2°34 | 22°35 | n.a. | T 8 |
| W 9 | 10 53 50 | 15°26'56 | 20°11 | 3°57 | 20°26 | 11° 6 | 2°45 | 15°15 | 16°39 | 19° 2 | 4° 7 | 3°59 | 2°30 | 22°42 | n.a. | W 9 |
| T 10 | 10 57 47 | 16°25'47 | 2♒58 | 5°16 | 21°40 | 11°50 | 2°38 | 15°23 | 16°42 | 19° 4 | 4° 8 | 3°R59 | 2°27 | 22°49 | n.a. | T 10 |
| F 11 | 11 1 43 | 17°24'37 | 15°33 | 6°31 | 22°54 | 12°34 | 2°31 | 15°30 | 16°45 | 19° 6 | 4° 9 | 3°59 | 2°24 | 22°55 | n.a. | F 11 |
| S 12 | 11 5 40 | 18°23'25 | 27°57 | 7°39 | 24° 9 | 13°18 | 2°24 | 15°38 | 16°48 | 19° 8 | 4°10 | 3°56 | 2°21 | 23° 2 | n.a. | S 12 |
| S 13 | 11 9 37 | 19°22'10 | 10♓12 | 8°42 | 25°23 | 14° 1 | 2°17 | 15°45 | 16°51 | 19°10 | 4°11 | 3°51 | 2°18 | 23° 9 | n.a. | S 13 |
| M14 | 11 13 33 | 20°20'54 | 22°19 | 9°40 | 26°37 | 14°45 | 2°10 | 15°53 | 16°54 | 19°12 | 4°12 | 3°44 | 2°14 | 23°16 | n.a. | M14 |
| T 15 | 11 17 30 | 21°19'36 | 4♈20 | 10°31 | 27°51 | 15°29 | 2° 2 | 16° 1 | 16°57 | 19°14 | 4°13 | 3°36 | 2°11 | 23°22 | n.a. | T 15 |
| W16 | 11 21 26 | 22°18'15 | 16°16 | 11°16 | 29° 5 | 16°13 | 1°55 | 16° 8 | 17° 0 | 19°16 | 4°14 | 3°26 | 2° 8 | 23°29 | n.a. | W16 |
| T 17 | 11 25 23 | 23°16'52 | 28° 9 | 11°55 | 0♈19 | 16°57 | 1°47 | 16°16 | 17° 3 | 19°18 | 4°15 | 3°17 | 2° 5 | 23°36 | n.a. | T 17 |
| F 18 | 11 29 19 | 24°15'28 | 10♉ 0 | 12°28 | 1°34 | 17°41 | 1°40 | 16°24 | 17° 6 | 19°20 | 4°16 | 3° 8 | 2° 2 | 23°42 | n.a. | F 18 |
| S 19 | 11 33 16 | 25°14'01 | 21°53 | 12°54 | 2°48 | 18°25 | 1°32 | 16°31 | 17° 9 | 19°22 | 4°17 | 3° 1 | 1°59 | 23°49 | n.a. | S 19 |
| S 20 | 11 37 12 | 26°12'31 | 3♊51 | 13°15 | 4° 2 | 19° 9 | 1°25 | 16°39 | 17°12 | 19°25 | 4°18 | 2°56 | 1°55 | 23°56 | n.a. | S 20 |
| M21 | 11 41 9 | 27°11'00 | 15°58 | 13°29 | 5°16 | 19°53 | 1°17 | 16°46 | 17°15 | 19°27 | 4°19 | 2°54 | 1°52 | 24° 3 | n.a. | M21 |
| T 22 | 11 45 6 | 28° 9'27 | 28°18 | 13°37 | 6°30 | 20°37 | 1° 9 | 16°54 | 17°17 | 19°29 | 4°21 | 2°D53 | 1°49 | 24° 9 | n.a. | T 22 |
| W23 | 11 49 2 | 29° 7'51 | 10♋57 | 13°R39 | 7°44 | 21°20 | 1° 2 | 17° 1 | 17°20 | 19°31 | 4°22 | 2°53 | 1°46 | 24°16 | n.a. | W23 |
| T 24 | 11 52 59 | 0♈ 6'13 | 23°59 | 13°35 | 8°58 | 22° 4 | 0°54 | 17° 9 | 17°23 | 19°33 | 4°23 | 2°54 | 1°43 | 24°23 | n.a. | T 24 |
| F 25 | 11 56 55 | 1° 4'32 | 7♌27 | 13°26 | 10°12 | 22°48 | 0°46 | 17°17 | 17°26 | 19°35 | 4°24 | 2°R54 | 1°39 | 24°30 | n.a. | F 25 |
| S 26 | 12 0 52 | 2° 2'50 | 21°24 | 13°12 | 11°26 | 23°32 | 0°39 | 17°24 | 17°28 | 19°37 | 4°25 | 2°53 | 1°36 | 24°36 | n.a. | S 26 |
| S 27 | 12 4 48 | 3° 1'05 | 5♍50 | 12°52 | 12°40 | 24°16 | 0°31 | 17°32 | 17°31 | 19°40 | 4°26 | 2°49 | 1°33 | 24°43 | n.a. | S 27 |
| M28 | 12 8 45 | 3°59'19 | 20°40 | 12°28 | 13°53 | 25° 0 | 0°23 | 17°39 | 17°34 | 19°42 | 4°27 | 2°43 | 1°30 | 24°50 | n.a. | M28 |
| T 29 | 12 12 41 | 4°57'30 | 5♎47 | 12° 0 | 15° 7 | 25°43 | 0°16 | 17°46 | 17°36 | 19°44 | 4°29 | 2°35 | 1°27 | 24°56 | n.a. | T 29 |
| W30 | 12 16 38 | 5°55'39 | 21° 3 | 11°29 | 16°21 | 26°27 | 0° 8 | 17°54 | 17°39 | 19°46 | 4°30 | 2°26 | 1°24 | 25° 3 | n.a. | W30 |
| T 31 | 12 20 34 | 6♈53'47 | 6♏15 | 10♈55 | 17♈35 | 27♉11 | 0♎ 0 | 18♓ 1 | 17♒41 | 19♈48 | 4♉31 | 2♒17 | 1♒20 | 25♈10 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| T 1 | 8s49 | 2s43 | 4s 9 | 3s20 | 0n27 | 8s58 | 1s22 | 24s17 | 0s41 | 0n 5 | 1n41 | 8s16 | 2s10 | 16s49 | 0s42 | 5n40 | 1s55 | 1n 3 | 12s41 | 19s25 | 19s43 | 13n16 | | | n.a. |
| W 2 | 8 27 | 9 18 | 4 49 | 2 24 | 0 39 | 8 29 | 1 21 | 24 16 | 0 42 | 0 7 | 1 41 | 8 13 | 2 10 | 16 48 | 0 42 | 5 41 | 1 55 | 1 3 | 12 41 | 19 26 | 19 44 | 13 18 | | | n.a. |
| T 3 | 8 5 | 15 20 | 5 9 | 1 29 | 0 51 | 7 59 | 1 20 | 24 15 | 0 43 | 0 10 | 1 41 | 8 10 | 2 10 | 16 47 | 0 42 | 5 42 | 1 55 | 1 4 | 12 40 | 19 28 | 19 45 | 13 21 | | | n.a. |
| F 4 | 7 42 | 20 24 | 5 8 | 0 36 | 1 4 | 7 29 | 1 19 | 24 14 | 0 44 | 0 13 | 1 41 | 8 7 | 2 10 | 16 46 | 0 42 | 5 43 | 1 55 | 1 4 | 12 40 | 19 28 | 19 46 | 13 24 | | | n.a. |
| S 5 | 7 19 | 24 9 | 4 48 | 0n17 | 1 16 | 6 59 | 1 19 | 24 13 | 0 46 | 0 16 | 1 42 | 8 4 | 2 10 | 16 45 | 0 42 | 5 43 | 1 55 | 1 5 | 12 40 | 19 29 | 19 46 | 13 26 | | | n.a. |
| S 6 | 6 57 | 26 21 | 4 11 | 1 7 | 1 28 | 6 29 | 1 18 | 24 11 | 0 47 | 0 18 | 1 42 | 8 1 | 2 10 | 16 44 | 0 42 | 5 44 | 1 55 | 1 6 | 12 40 | 19 29 | 19 47 | 13 29 | | | n.a. |
| M 7 | 6 34 | 26 54 | 3 21 | 1 56 | 1 39 | 5 59 | 1 17 | 24 9 | 0 48 | 0 21 | 1 42 | 7 59 | 2 10 | 16 43 | 0 42 | 5 45 | 1 55 | 1 6 | 12 40 | 19 29 | 19 48 | 13 32 | | | n.a. |
| T 8 | 6 11 | 25 51 | 2 21 | 2 42 | 1 51 | 5 29 | 1 16 | 24 7 | 0 49 | 0 24 | 1 42 | 7 56 | 2 10 | 16 42 | 0 42 | 5 46 | 1 55 | 1 7 | 12 39 | 19 29 | 19 49 | 13 35 | | | n.a. |
| W 9 | 5 48 | 23 24 | 1 14 | 3 27 | 2 2 | 4 58 | 1 14 | 24 4 | 0 50 | 0 27 | 1 42 | 7 53 | 2 10 | 16 42 | 0 42 | 5 46 | 1 54 | 1 7 | 12 39 | 19 29 | 19 49 | 13 37 | | | n.a. |
| T 10 | 5 25 | 19 48 | 0 6 | 4 8 | 2 12 | 4 28 | 1 13 | 24 1 | 0 51 | 0 30 | 1 42 | 7 50 | 2 10 | 16 41 | 0 42 | 5 47 | 1 54 | 1 8 | 12 39 | 19 28 | 19 50 | 13 40 | | | n.a. |
| F 11 | 5 2 | 15 22 | 1n 2 | 4 47 | 2 22 | 3 57 | 1 12 | 23 58 | 0 52 | 0 33 | 1 42 | 7 47 | 2 10 | 16 40 | 0 42 | 5 48 | 1 54 | 1 8 | 12 39 | 19 29 | 19 51 | 13 43 | | | n.a. |
| S 12 | 4 38 | 10 21 | 2 6 | 5 23 | 2 31 | 3 26 | 1 11 | 23 55 | 0 53 | 0 36 | 1 42 | 7 44 | 2 10 | 16 39 | 0 42 | 5 49 | 1 54 | 1 9 | 12 38 | 19 29 | 19 51 | 13 45 | | | n.a. |
| S 13 | 4 15 | 5 1 | 3 3 | 5 56 | 2 40 | 2 55 | 1 9 | 23 52 | 0 54 | 0 39 | 1 42 | 7 41 | 2 11 | 16 38 | 0 42 | 5 50 | 1 54 | 1 9 | 12 38 | 19 30 | 19 52 | 13 48 | | | n.a. |
| M14 | 3 52 | 0n27 | 3 51 | 6 26 | 2 47 | 2 24 | 1 8 | 23 48 | 0 56 | 0 42 | 1 42 | 7 38 | 2 11 | 16 37 | 0 42 | 5 50 | 1 54 | 1 10 | 12 38 | 19 32 | 19 53 | 13 51 | | | n.a. |
| T 15 | 3 29 | 5 50 | 4 28 | 6 52 | 2 54 | 1 53 | 1 7 | 23 44 | 0 57 | 0 45 | 1 42 | 7 35 | 2 11 | 16 36 | 0 42 | 5 51 | 1 54 | 1 10 | 12 38 | 19 34 | 19 54 | 13 53 | | | n.a. |
| W16 | 3 5 | 10 58 | 4 53 | 7 16 | 3 0 | 1 22 | 1 5 | 23 40 | 0 58 | 0 48 | 1 42 | 7 32 | 2 11 | 16 35 | 0 42 | 5 52 | 1 54 | 1 11 | 12 37 | 19 36 | 19 54 | 13 56 | | | n.a. |
| T 17 | 2 42 | 15 40 | 5 5 | 7 35 | 3 5 | 0 50 | 1 4 | 23 36 | 0 59 | 0 51 | 1 42 | 7 29 | 2 11 | 16 34 | 0 42 | 5 53 | 1 54 | 1 11 | 12 37 | 19 39 | 19 55 | 13 59 | | | n.a. |
| F 18 | 2 18 | 19 46 | 5 4 | 7 52 | 3 8 | 0 19 | 1 2 | 23 31 | 1 0 | 0 54 | 1 42 | 7 26 | 2 11 | 16 33 | 0 42 | 5 54 | 1 54 | 1 12 | 12 37 | 19 41 | 19 56 | 14 1 | | | n.a. |
| S 19 | 1 55 | 23 6 | 4 50 | 8 5 | 3 11 | 0n12 | 1 0 | 23 26 | 1 1 | 0 57 | 1 42 | 7 23 | 2 11 | 16 33 | 0 42 | 5 54 | 1 54 | 1 12 | 12 37 | 19 42 | 19 57 | 14 4 | | | n.a. |
| S 20 | 1 31 | 25 28 | 4 23 | 8 14 | 3 12 | 0 43 | 0 59 | 23 21 | 1 2 | 1 0 | 1 43 | 7 20 | 2 11 | 16 32 | 0 42 | 5 55 | 1 54 | 1 13 | 12 37 | 19 43 | 19 57 | 14 7 | | | n.a. |
| M21 | 1 8 | 26 41 | 3 44 | 8 19 | 3 12 | 1 15 | 0 57 | 23 16 | 1 4 | 1 3 | 1 43 | 7 17 | 2 11 | 16 31 | 0 42 | 5 56 | 1 54 | 1 14 | 12 36 | 19 44 | 19 58 | 14 9 | | | n.a. |
| T 22 | 0 44 | 26 36 | 2 54 | 8 21 | 3 11 | 1 46 | 0 55 | 23 11 | 1 5 | 1 6 | 1 43 | 7 14 | 2 11 | 16 30 | 0 42 | 5 57 | 1 54 | 1 14 | 12 36 | 19 44 | 19 59 | 14 12 | | | n.a. |
| W23 | 0 21 | 25 9 | 1 55 | 8 20 | 3 8 | 2 17 | 0 53 | 23 5 | 1 6 | 1 9 | 1 43 | 7 11 | 2 11 | 16 29 | 0 43 | 5 58 | 1 54 | 1 15 | 12 36 | 19 44 | 19 59 | 14 15 | | | n.a. |
| T 24 | 0n 2 | 22 20 | 0 48 | 8 15 | 3 4 | 2 48 | 0 51 | 22 59 | 1 7 | 1 12 | 1 42 | 7 8 | 2 11 | 16 28 | 0 43 | 5 59 | 1 54 | 1 15 | 12 36 | 19 44 | 20 0 | 14 17 | | | n.a. |
| F 25 | 0 26 | 18 13 | 0s24 | 8 6 | 2 59 | 3 19 | 0 49 | 22 53 | 1 8 | 1 15 | 1 42 | 7 5 | 2 11 | 16 28 | 0 43 | 5 59 | 1 54 | 1 16 | 12 36 | 19 44 | 20 1 | 14 20 | | | n.a. |
| S 26 | 0 49 | 13 0 | 1 37 | 7 54 | 2 52 | 3 51 | 0 47 | 22 46 | 1 10 | 1 18 | 1 42 | 7 3 | 2 11 | 16 27 | 0 43 | 6 0 | 1 54 | 1 16 | 12 36 | 19 44 | 20 2 | 14 22 | | | n.a. |
| S 27 | 1 13 | 6 54 | 2 46 | 7 39 | 2 44 | 4 22 | 0 45 | 22 40 | 1 11 | 1 21 | 1 42 | 7 0 | 2 11 | 16 26 | 0 43 | 6 1 | 1 54 | 1 17 | 12 35 | 19 45 | 20 2 | 14 25 | | | n.a. |
| M28 | 1 36 | 0 17 | 3 46 | 7 21 | 2 34 | 4 52 | 0 43 | 22 33 | 1 12 | 1 24 | 1 42 | 6 57 | 2 11 | 16 25 | 0 43 | 6 2 | 1 54 | 1 17 | 12 35 | 19 46 | 20 3 | 14 28 | | | n.a. |
| T 29 | 1 59 | 6s28 | 4 31 | 7 0 | 2 24 | 5 23 | 0 41 | 22 26 | 1 13 | 1 27 | 1 42 | 6 54 | 2 12 | 16 24 | 0 43 | 6 3 | 1 54 | 1 18 | 12 35 | 19 48 | 20 4 | 14 30 | | | n.a. |
| W30 | 2 23 | 12 53 | 4 57 | 6 36 | 2 12 | 5 54 | 0 39 | 22 19 | 1 14 | 1 30 | 1 42 | 6 51 | 2 12 | 16 24 | 0 43 | 6 4 | 1 54 | 1 18 | 12 35 | 19 50 | 20 4 | 14 33 | | | n.a. |
| T 31 | 2n46 | 18s30 | 5s 2 | 6n11 | 1n59 | 6n24 | 0s37 | 22s11 | 1s15 | 1n33 | 1n42 | 6s48 | 2s12 | 16s23 | 0s43 | 6n 4 | 1s54 | 1n19 | 12s35 | 19s52 | 20s 5 | 14n36 | | | n.a. |

Julian Day Number = 1686783.5, Delta T = 03h12m35s
Ecliptic obliquity = 23°42'29, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°22'28, Lahiri = - 5°15'27 Julian Calendar 1 March 95 BCE == Greg. Calendar 27 Feb. 095 BCE

The year -94 astronomical counting style corresponds to year 095 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 95 BCE
# geocentric

## APRIL 95 BCE (-94) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 12 24 31 | 7♈51'53 | 21♏14 | 10°R19 | 18♈49 | 27♉55 | 29°R53 | 18♓ 9 | 17♒44 | 19♈50 | 4♉32 | 2°R 9 | 1♒17 | 25♈17 | n.a. | F 1 |
| S 2 | 12 28 28 | 8°49'58 | 5♐51 | 9♈41 | 20° 3 | 28°38 | 29♍45 | 18°16 | 17°46 | 19°53 | 4°34 | 2♒ 3 | 1°14 | 25°23 | n.a. | S 2 |
| S 3 | 12 32 24 | 9°48'01 | 20° 3 | 9° 2 | 21°16 | 29°22 | 29°38 | 18°23 | 17°49 | 19°55 | 4°35 | 1°59 | 1°11 | 25°30 | n.a. | S 3 |
| M 4 | 12 36 21 | 10°46'03 | 3♑48 | 8°24 | 22°30 | 0♒ 6 | 29°30 | 18°31 | 17°51 | 19°57 | 4°36 | 1°57 | 1° 8 | 25°37 | n.a. | M 4 |
| T 5 | 12 40 17 | 11°44'04 | 17° 7 | 7°45 | 23°44 | 0°50 | 29°23 | 18°38 | 17°54 | 19°59 | 4°37 | 1°D57 | 1° 5 | 25°44 | n.a. | T 5 |
| W 6 | 12 44 14 | 12°42'02 | 0♒ 3 | 7° 9 | 24°58 | 1°33 | 29°16 | 18°45 | 17°56 | 20° 2 | 4°39 | 1°R58 | 1° 1 | 25°50 | n.a. | W 6 |
| T 7 | 12 48 10 | 13°40'00 | 12°41 | 6°34 | 26°11 | 2°17 | 29° 9 | 18°52 | 17°58 | 20° 4 | 4°40 | 1°57 | 0°58 | 25°57 | n.a. | T 7 |
| F 8 | 12 52 7 | 14°37'56 | 25° 4 | 6° 1 | 27°25 | 3° 0 | 29° 1 | 18°59 | 18° 0 | 20° 6 | 4°41 | 1°55 | 0°55 | 26° 4 | n.a. | F 8 |
| S 9 | 12 56 3 | 15°35'50 | 7♓15 | 5°31 | 28°39 | 3°44 | 28°54 | 19° 7 | 18° 3 | 20° 8 | 4°42 | 1°50 | 0°52 | 26°10 | n.a. | S 9 |
| S 10 | 13 0 0 | 16°33'43 | 19°19 | 5° 5 | 29°52 | 4°28 | 28°47 | 19°14 | 18° 5 | 20°11 | 4°44 | 1°43 | 0°49 | 26°17 | n.a. | S 10 |
| M11 | 13 3 57 | 17°31'35 | 1♈17 | 4°42 | 1♉ 6 | 5°11 | 28°40 | 19°21 | 18° 7 | 20°13 | 4°45 | 1°32 | 0°45 | 26°24 | n.a. | M11 |
| T 12 | 13 7 53 | 18°29'25 | 13°12 | 4°24 | 2°20 | 5°55 | 28°33 | 19°28 | 18° 9 | 20°15 | 4°46 | 1°20 | 0°42 | 26°31 | n.a. | T 12 |
| W13 | 13 11 50 | 19°27'13 | 25° 5 | 4° 9 | 3°33 | 6°38 | 28°27 | 19°35 | 18°11 | 20°17 | 4°48 | 1° 6 | 0°39 | 26°37 | n.a. | W13 |
| T 14 | 13 15 46 | 20°25'00 | 6♉57 | 3°59 | 4°47 | 7°22 | 28°20 | 19°42 | 18°13 | 20°20 | 4°49 | 0°53 | 0°36 | 26°44 | n.a. | T 14 |
| F 15 | 13 19 43 | 21°22'46 | 18°49 | 3°54 | 6° 0 | 8° 5 | 28°13 | 19°49 | 18°15 | 20°22 | 4°50 | 0°40 | 0°33 | 26°51 | n.a. | F 15 |
| S 16 | 13 23 39 | 22°20'30 | 0♊44 | 3°D53 | 7°14 | 8°48 | 28° 7 | 19°56 | 18°17 | 20°24 | 4°52 | 0°29 | 0°30 | 26°57 | n.a. | S 16 |
| S 17 | 13 27 36 | 23°18'12 | 12°45 | 3°57 | 8°27 | 9°32 | 28° 0 | 20° 2 | 18°19 | 20°26 | 4°53 | 0°21 | 0°26 | 27° 4 | n.a. | S 17 |
| M18 | 13 31 32 | 24°15'53 | 24°53 | 4° 5 | 9°41 | 10°15 | 27°54 | 20° 9 | 18°21 | 20°29 | 4°54 | 0°16 | 0°23 | 27°11 | n.a. | M18 |
| T 19 | 13 35 29 | 25°13'32 | 7♋14 | 4°18 | 10°54 | 10°58 | 27°48 | 20°16 | 18°23 | 20°31 | 4°56 | 0°13 | 0°20 | 27°18 | n.a. | T 19 |
| W20 | 13 39 26 | 26°11'09 | 19°50 | 4°35 | 12° 8 | 11°41 | 27°42 | 20°23 | 18°24 | 20°33 | 4°57 | 0°12 | 0°17 | 27°24 | n.a. | W20 |
| T 21 | 13 43 22 | 27° 8'45 | 2♌47 | 4°57 | 13°21 | 12°24 | 27°36 | 20°29 | 18°26 | 20°35 | 4°58 | 0°12 | 0°14 | 27°31 | n.a. | T 21 |
| F 22 | 13 47 19 | 28° 6'19 | 16° 9 | 5°23 | 14°35 | 13° 8 | 27°30 | 20°36 | 18°28 | 20°38 | 5° 0 | 0°12 | 0°10 | 27°38 | n.a. | F 22 |
| S 23 | 13 51 15 | 29° 3'52 | 29°58 | 5°53 | 15°48 | 13°51 | 27°25 | 20°43 | 18°29 | 20°40 | 5° 1 | 0°10 | 0° 7 | 27°45 | n.a. | S 23 |
| S 24 | 13 55 12 | 0♉ 1'23 | 14♍17 | 6°27 | 17° 1 | 14°34 | 27°19 | 20°49 | 18°31 | 20°42 | 5° 2 | 0° 5 | 0° 4 | 27°51 | n.a. | S 24 |
| M25 | 13 59 8 | 0°58'52 | 29° 2 | 7° 5 | 18°15 | 15°17 | 27°14 | 20°56 | 18°33 | 20°44 | 5° 4 | 29♑59 | 0° 1 | 27°58 | n.a. | M25 |
| T 26 | 14 3 5 | 1°56'20 | 14♎ 8 | 7°47 | 19°28 | 16° 0 | 27° 9 | 21° 2 | 18°34 | 20°46 | 5° 5 | 29°49 | 29♑58 | 28° 5 | n.a. | T 26 |
| W27 | 14 7 1 | 2°53'47 | 29°27 | 8°33 | 20°41 | 16°42 | 27° 3 | 21° 9 | 18°35 | 20°49 | 5° 7 | 29°39 | 29°55 | 28°11 | n.a. | W27 |
| T 28 | 14 10 58 | 3°51'12 | 14♏46 | 9°23 | 21°55 | 17°25 | 26°58 | 21°15 | 18°37 | 20°51 | 5° 8 | 29°28 | 29°51 | 28°18 | n.a. | T 28 |
| F 29 | 14 14 55 | 4°48'37 | 29°55 | 10°16 | 23° 8 | 18° 8 | 26°54 | 21°21 | 18°38 | 20°53 | 5° 9 | 29°19 | 29°48 | 28°25 | n.a. | F 29 |
| S 30 | 14 18 51 | 5♉46'01 | 14♐44 | 11♈12 | 24♉21 | 18♒51 | 26♍49 | 21♓27 | 18♒40 | 20♈55 | 5♉11 | 29♑11 | 29♑45 | 28♈32 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 3n 9 | 22s52 | 4s47 | 5n43 | 1n44 | 6n55 | 0s35 | 22s 4 | 1s17 | 1n36 | 1n42 | 6s45 | 2s12 | 16s22 | 0s43 | 6n 5 | 1s54 | 1n20 | 12s35 | 19s54 | 20s 6 | 14n38 | | n.a. |
| S 2 | 3 32 | 25 40 | 4 12 | 5 15 | 1 29 | 7 25 | 0 33 | 21 56 | 1 18 | 1 39 | 1 42 | 6 43 | 2 12 | 16 21 | 0 43 | 6 6 | 1 54 | 1 20 | 12 34 | 19 56 | 20 7 | 14 41 | | n.a. |
| S 3 | 3 55 | 26 43 | 3 23 | 4 45 | 1 14 | 7 55 | 0 30 | 21 48 | 1 19 | 1 42 | 1 42 | 6 40 | 2 12 | 16 21 | 0 43 | 6 7 | 1 54 | 1 21 | 12 34 | 19 56 | 20 7 | 14 43 | | n.a. |
| M 4 | 4 18 | 26 3 | 2 24 | 4 15 | 0 57 | 8 25 | 0 28 | 21 40 | 1 20 | 1 45 | 1 42 | 6 37 | 2 12 | 16 20 | 0 43 | 6 8 | 1 54 | 1 21 | 12 34 | 19 57 | 20 8 | 14 46 | | n.a. |
| T 5 | 4 41 | 23 53 | 1 18 | 3 44 | 0 41 | 8 55 | 0 26 | 21 31 | 1 21 | 1 48 | 1 42 | 6 34 | 2 12 | 16 19 | 0 43 | 6 9 | 1 54 | 1 22 | 12 34 | 19 57 | 20 9 | 14 49 | | n.a. |
| W 6 | 5 4 | 20 32 | 0 10 | 3 14 | 0 24 | 9 24 | 0 24 | 21 23 | 1 23 | 1 51 | 1 42 | 6 31 | 2 12 | 16 19 | 0 43 | 6 10 | 1 54 | 1 22 | 12 34 | 19 57 | 20 9 | 14 51 | | n.a. |
| T 7 | 5 27 | 16 17 | 0n57 | 2 44 | 0 7 | 9 53 | 0 21 | 21 14 | 1 24 | 1 54 | 1 42 | 6 29 | 2 12 | 16 18 | 0 43 | 6 10 | 1 54 | 1 23 | 12 34 | 19 57 | 20 10 | 14 54 | | n.a. |
| F 8 | 5 50 | 11 27 | 1 59 | 2 16 | 0s10 | 10 23 | 0 19 | 21 5 | 1 25 | 1 56 | 1 41 | 6 26 | 2 13 | 16 17 | 0 43 | 6 11 | 1 54 | 1 23 | 12 34 | 19 57 | 20 11 | 14 56 | | n.a. |
| S 9 | 6 12 | 6 14 | 2 55 | 1 49 | 0 27 | 10 51 | 0 16 | 20 56 | 1 26 | 1 59 | 1 41 | 6 23 | 2 13 | 16 17 | 0 43 | 6 12 | 1 54 | 1 24 | 12 34 | 19 58 | 20 11 | 14 59 | | n.a. |
| S 10 | 6 35 | 0 52 | 3 43 | 1 23 | 0 43 | 11 20 | 0 14 | 20 47 | 1 28 | 2 2 | 1 41 | 6 20 | 2 13 | 16 16 | 0 43 | 6 13 | 1 54 | 1 24 | 12 33 | 20 0 | 20 12 | 15 1 | | n.a. |
| M11 | 6 57 | 4n29 | 4 20 | 1 0 | 0 59 | 11 48 | 0 12 | 20 37 | 1 29 | 2 5 | 1 41 | 6 18 | 2 13 | 16 15 | 0 43 | 6 14 | 1 54 | 1 25 | 12 33 | 20 2 | 20 13 | 15 4 | | n.a. |
| T 12 | 7 20 | 9 38 | 4 45 | 0 38 | 1 14 | 12 16 | 0 9 | 20 27 | 1 30 | 2 7 | 1 41 | 6 15 | 2 13 | 16 15 | 0 43 | 6 15 | 1 54 | 1 25 | 12 33 | 20 5 | 20 14 | 15 6 | | n.a. |
| W13 | 7 42 | 14 25 | 4 58 | 0 19 | 1 28 | 12 44 | 0 7 | 20 18 | 1 31 | 2 10 | 1 41 | 6 12 | 2 13 | 16 14 | 0 43 | 6 16 | 1 54 | 1 26 | 12 33 | 20 8 | 20 14 | 15 9 | | n.a. |
| T 14 | 8 4 | 18 40 | 4 58 | 0 3 | 1 42 | 13 11 | 0 4 | 20 8 | 1 32 | 2 12 | 1 41 | 6 10 | 2 13 | 16 13 | 0 43 | 6 16 | 1 54 | 1 26 | 12 33 | 20 11 | 20 15 | 15 12 | | n.a. |
| F 15 | 8 26 | 22 11 | 4 45 | 0s11 | 1 55 | 13 39 | 0 2 | 19 57 | 1 34 | 2 15 | 1 40 | 6 7 | 2 13 | 16 13 | 0 43 | 6 17 | 1 54 | 1 27 | 12 33 | 20 14 | 20 16 | 15 14 | | n.a. |
| S 16 | 8 47 | 24 46 | 4 20 | 0 22 | 2 7 | 14 5 | 0n 1 | 19 47 | 1 35 | 2 17 | 1 40 | 6 5 | 2 14 | 16 12 | 0 43 | 6 18 | 1 54 | 1 27 | 12 33 | 20 16 | 20 16 | 15 17 | | n.a. |
| S 17 | 9 9 | 26 16 | 3 43 | 0 31 | 2 18 | 14 32 | 0 3 | 19 37 | 1 36 | 2 20 | 1 40 | 6 2 | 2 14 | 16 12 | 0 43 | 6 19 | 1 54 | 1 28 | 12 33 | 20 18 | 20 17 | 15 19 | | n.a. |
| M18 | 9 31 | 26 31 | 2 55 | 0 37 | 2 28 | 14 58 | 0 6 | 19 26 | 1 37 | 2 22 | 1 40 | 5 59 | 2 14 | 16 11 | 0 43 | 6 20 | 1 54 | 1 28 | 12 33 | 20 19 | 20 18 | 15 22 | | n.a. |
| T 19 | 9 52 | 25 29 | 1 58 | 0 40 | 2 37 | 15 24 | 0 8 | 19 15 | 1 39 | 2 24 | 1 40 | 5 57 | 2 14 | 16 11 | 0 43 | 6 21 | 1 54 | 1 29 | 12 33 | 20 20 | 20 18 | 15 24 | | n.a. |
| W20 | 10 13 | 23 7 | 0 55 | 0 41 | 2 45 | 15 49 | 0 11 | 19 4 | 1 40 | 2 27 | 1 40 | 5 54 | 2 14 | 16 10 | 0 43 | 6 22 | 1 54 | 1 30 | 12 32 | 20 20 | 20 19 | 15 27 | | n.a. |
| T 21 | 10 34 | 19 32 | 0s14 | 0 39 | 2 53 | 16 14 | 0 13 | 18 53 | 1 41 | 2 29 | 1 39 | 5 52 | 2 14 | 16 10 | 0 43 | 6 22 | 1 54 | 1 30 | 12 32 | 20 20 | 20 20 | 15 29 | | n.a. |
| F 22 | 10 55 | 14 51 | 1 23 | 0 35 | 2 59 | 16 39 | 0 16 | 18 42 | 1 42 | 2 31 | 1 39 | 5 49 | 2 14 | 16 9 | 0 43 | 6 23 | 1 54 | 1 31 | 12 32 | 20 20 | 20 20 | 15 32 | | n.a. |
| S 23 | 11 16 | 9 16 | 2 30 | 0 28 | 3 5 | 17 3 | 0 18 | 18 30 | 1 43 | 2 33 | 1 39 | 5 47 | 2 15 | 16 9 | 0 43 | 6 24 | 1 54 | 1 31 | 12 32 | 20 21 | 20 21 | 15 34 | | n.a. |
| S 24 | 11 36 | 3 2 | 3 30 | 0 18 | 3 9 | 17 26 | 0 21 | 18 19 | 1 45 | 2 35 | 1 39 | 5 44 | 2 15 | 16 8 | 0 44 | 6 25 | 1 54 | 1 32 | 12 32 | 20 21 | 20 22 | 15 37 | | n.a. |
| M25 | 11 57 | 3s33 | 4 18 | 0 6 | 3 13 | 17 50 | 0 23 | 18 7 | 1 46 | 2 37 | 1 39 | 5 42 | 2 15 | 16 8 | 0 44 | 6 26 | 1 54 | 1 32 | 12 32 | 20 23 | 20 22 | 15 39 | | n.a. |
| T 26 | 12 17 | 10 4 | 4 49 | 0n 8 | 3 16 | 18 12 | 0 26 | 17 55 | 1 47 | 2 39 | 1 38 | 5 39 | 2 15 | 16 7 | 0 44 | 6 27 | 1 54 | 1 32 | 12 32 | 20 25 | 20 23 | 15 42 | | n.a. |
| W27 | 12 37 | 16 4 | 5 0 | 0 24 | 3 18 | 18 35 | 0 28 | 17 43 | 1 48 | 2 41 | 1 38 | 5 37 | 2 15 | 16 7 | 0 44 | 6 27 | 1 54 | 1 33 | 12 32 | 20 27 | 20 24 | 15 44 | | n.a. |
| T 28 | 12 57 | 21 3 | 4 50 | 0 43 | 3 19 | 18 57 | 0 31 | 17 31 | 1 50 | 2 43 | 1 38 | 5 35 | 2 15 | 16 6 | 0 44 | 6 28 | 1 54 | 1 33 | 12 32 | 20 29 | 20 24 | 15 47 | | n.a. |
| F 29 | 13 16 | 24 34 | 4 19 | 1 3 | 3 19 | 19 18 | 0 33 | 17 19 | 1 51 | 2 44 | 1 38 | 5 32 | 2 16 | 16 6 | 0 44 | 6 29 | 1 54 | 1 34 | 12 32 | 20 31 | 20 25 | 15 49 | | n.a. |
| S 30 | 13n36 | 26s19 | 3s31 | 1n26 | 3s19 | 19n39 | 0n36 | 17s 7 | 1s52 | 2n46 | 1n37 | 5s30 | 2s16 | 16s 6 | 0s44 | 6n30 | 1s54 | 1n34 | 12s32 | 20s33 | 20s26 | 15n52 | | n.a. |

Julian Day Number = 1686814.5, Delta T = 03h12m34s
Ecliptic obliquity = 23°42'29, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°22'24, Lahiri = - 5°15'23 Julian Calendar 1 Apr. 95 BCE == Greg. Calendar 30 March 095 BCE


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# ASTRODIENST EPHEMERIS for the year 95 BCE
# geocentric

## MAY 95 BCE (-94) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 14 22 48 | 6♉43'24 | 29♐ 6 | 12♈12 | 25♉34 | 19♒33 | 26°R45 | 21♓34 | 18♒41 | 20♈57 | 5♉12 | 29°R 6 | 29♑42 | 28♈38 | n.a. | S 1 |
| M 2 | 14 26 44 | 7°40'46 | 12♑59 | 13°15 | 26°47 | 20°16 | 26♍40 | 21°40 | 18°42 | 21° 0 | 5°13 | 29♑ 4 | 29°39 | 28°45 | n.a. | M 2 |
| T 3 | 14 30 41 | 8°38'07 | 26°24 | 14°21 | 28° 1 | 20°58 | 26°36 | 21°46 | 18°43 | 21° 2 | 5°15 | 29°D 3 | 29°36 | 28°52 | n.a. | T 3 |
| W 4 | 14 34 37 | 9°35'28 | 9♒22 | 15°30 | 29°14 | 21°41 | 26°32 | 21°52 | 18°45 | 21° 4 | 5°16 | 29°R 3 | 29°32 | 28°59 | n.a. | W 4 |
| T 5 | 14 38 34 | 10°32'48 | 21°58 | 16°43 | 0♊27 | 22°23 | 26°28 | 21°58 | 18°46 | 21° 6 | 5°17 | 29° 3 | 29°29 | 29° 5 | n.a. | T 5 |
| F 6 | 14 42 30 | 11°30'07 | 4♓18 | 17°58 | 1°40 | 23° 6 | 26°24 | 22° 4 | 18°47 | 21° 8 | 5°19 | 29° 1 | 29°26 | 29°12 | n.a. | F 6 |
| S 7 | 14 46 27 | 12°27'26 | 16°25 | 19°16 | 2°53 | 23°48 | 26°21 | 22° 9 | 18°48 | 21°10 | 5°20 | 28°57 | 29°23 | 29°19 | n.a. | S 7 |
| S 8 | 14 50 24 | 13°24'44 | 28°23 | 20°37 | 4° 6 | 24°30 | 26°18 | 22°15 | 18°49 | 21°13 | 5°22 | 28°50 | 29°20 | 29°25 | n.a. | S 8 |
| M 9 | 14 54 20 | 14°22'01 | 10♈17 | 22° 1 | 5°19 | 25°12 | 26°14 | 22°21 | 18°50 | 21°15 | 5°23 | 28°40 | 29°16 | 29°32 | n.a. | M 9 |
| T 10 | 14 58 17 | 15°19'18 | 22° 8 | 23°28 | 6°32 | 25°54 | 26°11 | 22°27 | 18°50 | 21°17 | 5°24 | 28°29 | 29°13 | 29°39 | n.a. | T 10 |
| W11 | 15 2 13 | 16°16'34 | 4♉ 0 | 24°58 | 7°45 | 26°36 | 26° 8 | 22°32 | 18°51 | 21°19 | 5°26 | 28°16 | 29°10 | 29°46 | n.a. | W11 |
| T 12 | 15 6 10 | 17°13'49 | 15°54 | 26°30 | 8°58 | 27°18 | 26° 6 | 22°38 | 18°52 | 21°21 | 5°27 | 28° 3 | 29° 7 | 29°52 | n.a. | T 12 |
| F 13 | 15 10 6 | 18°11'04 | 27°51 | 28° 5 | 10°11 | 28° 0 | 26° 3 | 22°43 | 18°53 | 21°23 | 5°28 | 27°51 | 29° 4 | 29°59 | n.a. | F 13 |
| S 14 | 15 14 3 | 19° 8'18 | 9♊52 | 29°43 | 11°24 | 28°42 | 26° 1 | 22°48 | 18°53 | 21°25 | 5°30 | 27°41 | 29° 1 | 0♉ 6 | n.a. | S 14 |
| S 15 | 15 17 59 | 20° 5'32 | 22° 0 | 1♉24 | 12°37 | 29°23 | 25°59 | 22°54 | 18°54 | 21°27 | 5°31 | 27°33 | 28°57 | 0°12 | n.a. | S 15 |
| M16 | 15 21 56 | 21° 2'44 | 4♋16 | 3° 8 | 13°50 | 0♓ 5 | 25°57 | 22°59 | 18°55 | 21°29 | 5°32 | 27°28 | 28°54 | 0°19 | n.a. | M16 |
| T 17 | 15 25 53 | 21°59'56 | 16°43 | 4°54 | 15° 3 | 0°46 | 25°55 | 23° 4 | 18°55 | 21°31 | 5°34 | 27°26 | 28°51 | 0°26 | n.a. | T 17 |
| W18 | 15 29 49 | 22°57'07 | 29°24 | 6°42 | 16°16 | 1°28 | 25°53 | 23° 9 | 18°56 | 21°33 | 5°35 | 27°D26 | 28°48 | 0°33 | n.a. | W18 |
| T 19 | 15 33 46 | 23°54'18 | 12♌23 | 8°34 | 17°28 | 2° 9 | 25°52 | 23°14 | 18°56 | 21°35 | 5°36 | 27°26 | 28°45 | 0°39 | n.a. | T 19 |
| F 20 | 15 37 42 | 24°51'27 | 25°42 | 10°27 | 18°41 | 2°50 | 25°51 | 23°19 | 18°57 | 21°37 | 5°37 | 27°R26 | 28°42 | 0°46 | n.a. | F 20 |
| S 21 | 15 41 39 | 25°48'36 | 9♍25 | 12°24 | 19°54 | 3°31 | 25°50 | 23°24 | 18°57 | 21°39 | 5°39 | 27°26 | 28°38 | 0°53 | n.a. | S 21 |
| S 22 | 15 45 35 | 26°45'44 | 23°32 | 14°22 | 21° 7 | 4°12 | 25°49 | 23°29 | 18°57 | 21°41 | 5°40 | 27°23 | 28°35 | 1° 0 | n.a. | S 22 |
| M23 | 15 49 32 | 27°42'52 | 8♎ 4 | 16°23 | 22°20 | 4°53 | 25°48 | 23°34 | 18°57 | 21°43 | 5°41 | 27°18 | 28°32 | 1° 6 | n.a. | M23 |
| T 24 | 15 53 28 | 28°39'58 | 22°56 | 18°26 | 23°32 | 5°34 | 25°48 | 23°38 | 18°58 | 21°45 | 5°43 | 27°11 | 28°29 | 1°13 | n.a. | T 24 |
| W25 | 15 57 25 | 29°37'05 | 8♏ 2 | 20°30 | 24°45 | 6°14 | 25°47 | 23°43 | 18°58 | 21°47 | 5°44 | 27° 3 | 28°26 | 1°20 | n.a. | W25 |
| T 26 | 16 1 22 | 0♊34'11 | 23°12 | 22°36 | 25°57 | 6°55 | 25°D47 | 23°47 | 18°58 | 21°48 | 5°45 | 26°55 | 28°22 | 1°26 | n.a. | T 26 |
| F 27 | 16 5 18 | 1°31'17 | 8♐16 | 24°44 | 27°10 | 7°35 | 25°47 | 23°52 | 18°58 | 21°50 | 5°46 | 26°47 | 28°19 | 1°33 | n.a. | F 27 |
| S 28 | 16 9 15 | 2°28'23 | 23° 4 | 26°53 | 28°23 | 8°15 | 25°47 | 23°56 | 18°R58 | 21°52 | 5°48 | 26°42 | 28°16 | 1°40 | n.a. | S 28 |
| S 29 | 16 13 11 | 3°25'28 | 7♑29 | 29° 3 | 29°35 | 8°56 | 25°48 | 24° 0 | 18°58 | 21°54 | 5°49 | 26°38 | 28°13 | 1°47 | n.a. | S 29 |
| M30 | 16 17 8 | 4°22'34 | 21°27 | 1♊13 | 0♋48 | 9°36 | 25°48 | 24° 5 | 18°58 | 21°56 | 5°50 | 26°D36 | 28°10 | 1°53 | n.a. | M30 |
| T 31 | 16 21 4 | 5♊19'40 | 4♒57 | 3♊23 | 2♋ 0 | 10♓16 | 25♍49 | 24♓ 9 | 18♒58 | 21♈57 | 5♉51 | 26♑37 | 28♑ 7 | 2♉ 0 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| S 1 | 13n55 | 26s13 | 2s31 | 1n51 | 3s18 | 19n59 | 0n38 | 16s54 | 1s53 | 2n48 | 1n37 | 5s28 | 2s16 | 16s 5 | 0s44 | 6n31 | 1s54 | 1n35 | 12s32 | 20s34 | 20s27 | 15n54 | | | n.a. |
| M 2 | 14 14 | 24 27 | 1 24 | 2 17 | 3 16 | 20 19 | 0 41 | 16 42 | 1 54 | 2 49 | 1 37 | 5 25 | 2 16 | 16 5 | 0 44 | 6 31 | 1 54 | 1 35 | 12 32 | 20 35 | 20 27 | 15 57 | | | n.a. |
| T 3 | 14 32 | 21 20 | 0 14 | 2 45 | 3 13 | 20 38 | 0 43 | 16 29 | 1 56 | 2 50 | 1 37 | 5 23 | 2 16 | 16 5 | 0 44 | 6 32 | 1 54 | 1 36 | 12 32 | 20 35 | 20 28 | 15 59 | | | n.a. |
| W 4 | 14 51 | 17 14 | 0n54 | 3 15 | 3 10 | 20 57 | 0 45 | 16 16 | 1 57 | 2 52 | 1 36 | 5 21 | 2 17 | 16 4 | 0 44 | 6 33 | 1 54 | 1 36 | 12 32 | 20 35 | 20 29 | 16 2 | | | n.a. |
| T 5 | 15 9 | 12 29 | 1 58 | 3 47 | 3 6 | 21 15 | 0 48 | 16 4 | 1 58 | 2 53 | 1 36 | 5 19 | 2 17 | 16 4 | 0 44 | 6 34 | 1 54 | 1 37 | 12 32 | 20 35 | 20 29 | 16 4 | | | n.a. |
| F 6 | 15 27 | 7 20 | 2 55 | 4 20 | 3 2 | 21 32 | 0 50 | 15 51 | 1 59 | 2 54 | 1 36 | 5 17 | 2 17 | 16 4 | 0 44 | 6 35 | 1 54 | 1 37 | 12 32 | 20 35 | 20 30 | 16 7 | | | n.a. |
| S 7 | 15 45 | 2 0 | 3 43 | 4 55 | 2 56 | 21 49 | 0 52 | 15 38 | 2 0 | 2 56 | 1 36 | 5 14 | 2 17 | 16 3 | 0 44 | 6 35 | 1 54 | 1 38 | 12 32 | 20 36 | 20 31 | 16 9 | | | n.a. |
| S 8 | 16 2 | 3n19 | 4 20 | 5 31 | 2 50 | 22 6 | 0 55 | 15 24 | 2 2 | 2 57 | 1 35 | 5 12 | 2 17 | 16 3 | 0 44 | 6 36 | 1 54 | 1 38 | 12 32 | 20 37 | 20 31 | 16 11 | | | n.a. |
| M 9 | 16 20 | 8 29 | 4 46 | 6 8 | 2 44 | 22 22 | 0 57 | 15 11 | 2 3 | 2 58 | 1 35 | 5 10 | 2 18 | 16 3 | 0 44 | 6 37 | 1 54 | 1 38 | 12 32 | 20 39 | 20 32 | 16 14 | | | n.a. |
| T 10 | 16 37 | 13 20 | 4 59 | 6 47 | 2 37 | 22 37 | 0 59 | 14 58 | 2 4 | 2 59 | 1 35 | 5 8 | 2 18 | 16 3 | 0 44 | 6 38 | 1 54 | 1 39 | 12 32 | 20 42 | 20 33 | 16 16 | | | n.a. |
| W11 | 16 54 | 17 40 | 4 59 | 7 27 | 2 30 | 22 51 | 1 1 | 14 45 | 2 5 | 3 0 | 1 35 | 5 6 | 2 18 | 16 2 | 0 44 | 6 39 | 1 54 | 1 39 | 12 32 | 20 44 | 20 33 | 16 19 | | | n.a. |
| T 12 | 17 10 | 21 21 | 4 47 | 8 8 | 2 22 | 23 5 | 1 3 | 14 31 | 2 6 | 3 0 | 1 34 | 5 4 | 2 18 | 16 2 | 0 44 | 6 39 | 1 54 | 1 40 | 12 32 | 20 47 | 20 34 | 16 21 | | | n.a. |
| F 13 | 17 26 | 24 8 | 4 21 | 8 51 | 2 13 | 23 18 | 1 5 | 14 18 | 2 8 | 3 1 | 1 34 | 5 2 | 2 18 | 16 2 | 0 44 | 6 40 | 1 54 | 1 40 | 12 32 | 20 49 | 20 35 | 16 24 | | | n.a. |
| S 14 | 17 42 | 25 52 | 3 44 | 9 34 | 2 4 | 23 31 | 1 8 | 14 4 | 2 9 | 3 2 | 1 34 | 5 0 | 2 19 | 16 2 | 0 44 | 6 41 | 1 54 | 1 40 | 12 32 | 20 51 | 20 35 | 16 26 | | | n.a. |
| S 15 | 17 58 | 26 24 | 2 56 | 10 18 | 1 55 | 23 43 | 1 10 | 13 50 | 2 10 | 3 3 | 1 33 | 4 58 | 2 19 | 16 2 | 0 44 | 6 42 | 1 54 | 1 41 | 12 32 | 20 53 | 20 36 | 16 28 | | | n.a. |
| M16 | 18 13 | 25 38 | 2 0 | 11 3 | 1 45 | 23 54 | 1 12 | 13 37 | 2 11 | 3 3 | 1 33 | 4 56 | 2 19 | 16 1 | 0 44 | 6 42 | 1 54 | 1 41 | 12 32 | 20 54 | 20 37 | 16 31 | | | n.a. |
| T 17 | 18 28 | 23 35 | 0 57 | 11 48 | 1 35 | 24 4 | 1 13 | 13 23 | 2 12 | 3 4 | 1 33 | 4 54 | 2 19 | 16 1 | 0 44 | 6 43 | 1 54 | 1 42 | 12 32 | 20 54 | 20 37 | 16 33 | | | n.a. |
| W18 | 18 43 | 20 20 | 0s11 | 12 34 | 1 25 | 24 14 | 1 15 | 13 9 | 2 13 | 3 4 | 1 33 | 4 53 | 2 20 | 16 1 | 0 44 | 6 44 | 1 54 | 1 42 | 12 32 | 20 55 | 20 38 | 16 36 | | | n.a. |
| T 19 | 18 58 | 16 1 | 1 19 | 13 21 | 1 14 | 24 23 | 1 17 | 12 55 | 2 15 | 3 4 | 1 32 | 4 51 | 2 20 | 16 1 | 0 44 | 6 44 | 1 54 | 1 42 | 12 32 | 20 54 | 20 39 | 16 38 | | | n.a. |
| F 20 | 19 12 | 10 50 | 2 25 | 14 7 | 1 3 | 24 32 | 1 19 | 12 41 | 2 16 | 3 4 | 1 32 | 4 49 | 2 20 | 16 1 | 0 45 | 6 45 | 1 54 | 1 43 | 12 32 | 20 54 | 20 39 | 16 40 | | | n.a. |
| S 21 | 19 26 | 4 59 | 3 24 | 14 54 | 0 52 | 24 40 | 1 21 | 12 27 | 2 17 | 3 5 | 1 32 | 4 47 | 2 20 | 16 1 | 0 45 | 6 46 | 1 54 | 1 43 | 12 32 | 20 55 | 20 40 | 16 43 | | | n.a. |
| S 22 | 19 39 | 1s17 | 4 13 | 15 41 | 0 41 | 24 47 | 1 22 | 12 13 | 2 18 | 3 5 | 1 31 | 4 46 | 2 20 | 16 1 | 0 45 | 6 47 | 1 54 | 1 43 | 12 32 | 20 55 | 20 40 | 16 45 | | | n.a. |
| M23 | 19 52 | 7 38 | 4 48 | 16 27 | 0 30 | 24 53 | 1 24 | 11 59 | 2 19 | 3 5 | 1 31 | 4 44 | 2 21 | 16 1 | 0 45 | 6 47 | 1 55 | 1 44 | 12 32 | 20 56 | 20 41 | 16 48 | | | n.a. |
| T 24 | 20 5 | 13 42 | 5 4 | 17 13 | 0 18 | 24 59 | 1 26 | 11 45 | 2 20 | 3 5 | 1 31 | 4 42 | 2 21 | 16 1 | 0 45 | 6 48 | 1 55 | 1 44 | 12 32 | 20 57 | 20 42 | 16 50 | | | n.a. |
| W25 | 20 18 | 19 3 | 4 59 | 17 57 | 0 7 | 25 3 | 1 27 | 11 31 | 2 21 | 3 5 | 1 31 | 4 41 | 2 21 | 16 1 | 0 45 | 6 49 | 1 55 | 1 45 | 12 32 | 20 59 | 20 42 | 16 52 | | | n.a. |
| T 26 | 20 30 | 23 11 | 4 33 | 18 41 | 0n 4 | 25 7 | 1 29 | 11 16 | 2 23 | 3 4 | 1 30 | 4 39 | 2 21 | 16 1 | 0 45 | 6 49 | 1 55 | 1 45 | 12 32 | 21 1 | 20 43 | 16 55 | | | n.a. |
| F 27 | 20 42 | 25 42 | 3 49 | 19 24 | 0 14 | 25 11 | 1 30 | 11 2 | 2 24 | 3 4 | 1 30 | 4 38 | 2 22 | 16 1 | 0 45 | 6 50 | 1 55 | 1 45 | 12 33 | 21 2 | 20 44 | 16 57 | | | n.a. |
| S 28 | 20 53 | 26 21 | 2 50 | 20 5 | 0 25 | 25 13 | 1 32 | 10 48 | 2 25 | 3 4 | 1 30 | 4 36 | 2 22 | 16 1 | 0 45 | 6 51 | 1 55 | 1 45 | 12 33 | 21 3 | 20 44 | 16 59 | | | n.a. |
| S 29 | 21 4 | 25 10 | 1 41 | 20 44 | 0 35 | 25 15 | 1 33 | 10 34 | 2 26 | 3 3 | 1 29 | 4 35 | 2 22 | 16 1 | 0 45 | 6 51 | 1 55 | 1 46 | 12 33 | 21 4 | 20 45 | 17 2 | | | n.a. |
| M30 | 21 15 | 22 26 | 0 28 | 21 22 | 0 45 | 25 16 | 1 34 | 10 20 | 2 27 | 3 3 | 1 29 | 4 33 | 2 22 | 16 1 | 0 45 | 6 52 | 1 55 | 1 46 | 12 33 | 21 4 | 20 46 | 17 4 | | | n.a. |
| T 31 | 21n26 | 18s31 | 0n45 | 21n57 | 0n54 | 25n17 | 1n35 | 10s 5 | 2s28 | 3n 2 | 1n29 | 4s32 | 2s23 | 16s 1 | 0s45 | 6n52 | 1s55 | 1n46 | 12s33 | 21s 4 | 20s46 | 17n 6 | | | n.a. |

Julian Day Number = 1686844.5, Delta T = 03h12m33s
Ecliptic obliquity = 23°42'28, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°22'20, Lahiri = - 5°15'19 Julian Calendar 1 May 95 BCE == Greg. Calendar 29 Apr. 095 BCE

The year -94 astronomical counting style corresponds to year 095 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 95 BCE
# geocentric

## JUNE 95 BCE (-94) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 16 25 1 | 6♊16'46 | 18♒ 0 | 5♊34 | 3♋13 | 10♓55 | 25♍50 | 24♓13 | 18°R57 | 21♈59 | 5♉53 | 26♑38 | 28♑ 3 | 2♉ 7 | n.a. | W 1 |
| T 2 | 16 28 58 | 7°13'52 | 0♓40 | 7°45 | 4°25 | 11°35 | 25°51 | 24°17 | 18♒57 | 22° 1 | 5°54 | 26°39 | 28° 0 | 2°14 | n.a. | T 2 |
| F 3 | 16 32 54 | 8°10'58 | 13° 2 | 9°55 | 5°38 | 12°15 | 25°52 | 24°20 | 18°57 | 22° 3 | 5°55 | 26°R39 | 27°57 | 2°20 | n.a. | F 3 |
| S 4 | 16 36 51 | 9° 8'05 | 25° 9 | 12° 4 | 6°50 | 12°54 | 25°54 | 24°24 | 18°57 | 22° 4 | 5°56 | 26°37 | 27°54 | 2°27 | n.a. | S 4 |
| S 5 | 16 40 47 | 10° 5'12 | 7♈ 7 | 14°12 | 8° 2 | 13°33 | 25°55 | 24°28 | 18°56 | 22° 6 | 5°57 | 26°34 | 27°51 | 2°34 | n.a. | S 5 |
| M 6 | 16 44 44 | 11° 2'20 | 19° 0 | 16°19 | 9°15 | 14°12 | 25°57 | 24°31 | 18°56 | 22° 8 | 5°58 | 26°29 | 27°48 | 2°40 | n.a. | M 6 |
| T 7 | 16 48 40 | 11°59'27 | 0♉51 | 18°25 | 10°27 | 14°51 | 25°59 | 24°35 | 18°55 | 22° 9 | 6° 0 | 26°22 | 27°44 | 2°47 | n.a. | T 7 |
| W 8 | 16 52 37 | 12°56'35 | 12°44 | 20°30 | 11°39 | 15°30 | 26° 1 | 24°38 | 18°55 | 22°11 | 6° 1 | 26°14 | 27°41 | 2°54 | n.a. | W 8 |
| T 9 | 16 56 33 | 13°53'44 | 24°42 | 22°33 | 12°52 | 16° 9 | 26° 3 | 24°42 | 18°54 | 22°12 | 6° 2 | 26° 6 | 27°38 | 3° 1 | n.a. | T 9 |
| F 10 | 17 0 30 | 14°50'53 | 6♊46 | 24°34 | 14° 4 | 16°47 | 26° 6 | 24°45 | 18°54 | 22°14 | 6° 3 | 25°59 | 27°35 | 3° 7 | n.a. | F 10 |
| S 11 | 17 4 27 | 15°48'02 | 18°57 | 26°34 | 15°16 | 17°25 | 26° 9 | 24°48 | 18°53 | 22°15 | 6° 4 | 25°53 | 27°32 | 3°14 | n.a. | S 11 |
| S 12 | 17 8 23 | 16°45'11 | 1♋17 | 28°32 | 16°28 | 18° 4 | 26°11 | 24°51 | 18°52 | 22°17 | 6° 5 | 25°48 | 27°28 | 3°21 | n.a. | S 12 |
| M13 | 17 12 20 | 17°42'21 | 13°48 | 0♋28 | 17°40 | 18°41 | 26°14 | 24°54 | 18°51 | 22°18 | 6° 6 | 25°46 | 27°25 | 3°28 | n.a. | M13 |
| T 14 | 17 16 16 | 18°39'31 | 26°29 | 2°22 | 18°52 | 19°19 | 26°18 | 24°57 | 18°51 | 22°20 | 6° 7 | 25°D45 | 27°22 | 3°34 | n.a. | T 14 |
| W15 | 17 20 13 | 19°36'41 | 9♌24 | 4°15 | 20° 5 | 19°57 | 26°21 | 24°59 | 18°50 | 22°21 | 6° 8 | 25°46 | 27°19 | 3°41 | n.a. | W15 |
| T 16 | 17 24 9 | 20°33'52 | 22°33 | 6° 6 | 21°17 | 20°34 | 26°24 | 25° 2 | 18°49 | 22°23 | 6° 9 | 25°47 | 27°16 | 3°48 | n.a. | T 16 |
| F 17 | 17 28 6 | 21°31'02 | 5♍58 | 7°54 | 22°29 | 21°11 | 26°28 | 25° 5 | 18°48 | 22°24 | 6°10 | 25°49 | 27°13 | 3°54 | n.a. | F 17 |
| S 18 | 17 32 2 | 22°28'13 | 19°41 | 9°41 | 23°41 | 21°48 | 26°32 | 25° 7 | 18°47 | 22°25 | 6°11 | 25°R50 | 27° 9 | 4° 1 | n.a. | S 18 |
| S 19 | 17 35 59 | 23°25'24 | 3♎42 | 11°26 | 24°52 | 22°25 | 26°36 | 25° 9 | 18°46 | 22°27 | 6°12 | 25°49 | 27° 6 | 4° 8 | n.a. | S 19 |
| M20 | 17 39 56 | 24°22'35 | 18° 1 | 13°10 | 26° 4 | 23° 2 | 26°40 | 25°12 | 18°45 | 22°28 | 6°13 | 25°47 | 27° 3 | 4°15 | n.a. | M20 |
| T 21 | 17 43 52 | 25°19'47 | 2♏35 | 14°51 | 27°16 | 23°38 | 26°44 | 25°14 | 18°44 | 22°29 | 6°14 | 25°44 | 27° 0 | 4°21 | n.a. | T 21 |
| W22 | 17 47 49 | 26°16'59 | 17°18 | 16°30 | 28°28 | 24°15 | 26°49 | 25°16 | 18°43 | 22°30 | 6°15 | 25°41 | 26°57 | 4°28 | n.a. | W22 |
| T 23 | 17 51 45 | 27°14'12 | 2♐ 6 | 18° 8 | 29°40 | 24°51 | 26°54 | 25°18 | 18°41 | 22°31 | 6°16 | 25°37 | 26°54 | 4°35 | n.a. | T 23 |
| F 24 | 17 55 42 | 28°11'25 | 16°50 | 19°44 | 0♑51 | 25°26 | 26°58 | 25°20 | 18°40 | 22°33 | 6°17 | 25°33 | 26°50 | 4°41 | n.a. | F 24 |
| S 25 | 17 59 38 | 29° 8'39 | 1♑23 | 21°18 | 2° 3 | 26° 2 | 27° 3 | 25°21 | 18°39 | 22°34 | 6°18 | 25°30 | 26°47 | 4°48 | n.a. | S 25 |
| S 26 | 18 3 35 | 0♋ 5'53 | 15°38 | 22°50 | 3°15 | 26°37 | 27° 8 | 25°23 | 18°38 | 22°35 | 6°19 | 25°29 | 26°44 | 4°55 | n.a. | S 26 |
| M27 | 18 7 32 | 1° 3'09 | 29°32 | 24°20 | 4°26 | 27°12 | 27°14 | 25°25 | 18°36 | 22°36 | 6°20 | 25°D29 | 26°41 | 5° 2 | n.a. | M27 |
| T 28 | 18 11 28 | 2° 0'25 | 13♒ 1 | 25°48 | 5°38 | 27°47 | 27°19 | 25°26 | 18°35 | 22°37 | 6°21 | 25°30 | 26°38 | 5° 8 | n.a. | T 28 |
| W29 | 18 15 25 | 2°57'43 | 26° 7 | 27°15 | 6°49 | 28°22 | 27°25 | 25°27 | 18°33 | 22°38 | 6°21 | 25°31 | 26°34 | 5°15 | n.a. | W29 |
| T 30 | 18 19 21 | 3♋55'01 | 8♓50 | 28♋39 | 8♌ 1 | 28♓56 | 27♍30 | 25♓29 | 18♒32 | 22♈39 | 6♉22 | 25♑32 | 26♑31 | 5♉22 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| W 1 | 21n36 | 13s49 | 1n53 | 22n30 | 1n 2 | 25n16 | 1n36 | 9s51 | 2s29 | 3n 2 | 1n29 | 4s30 | 2s23 | 16s 1 | 0s45 | 6n53 | 1s55 | 1n47 | 12s33 | 21s 4 | 20s47 | 17n 9 | | n.a. | W 1 |
| T 2 | 21 46 | 8 40 | 2 53 | 23 0 | 1 11 | 25 15 | 1 37 | 9 37 | 2 30 | 3 1 | 1 28 | 4 29 | 2 23 | 16 1 | 0 45 | 6 54 | 1 55 | 1 47 | 12 33 | 21 4 | 20 48 | 17 11 | | n.a. | T 2 |
| F 3 | 21 55 | 3 18 | 3 43 | 23 28 | 1 18 | 25 14 | 1 38 | 9 22 | 2 32 | 3 0 | 1 28 | 4 28 | 2 23 | 16 1 | 0 45 | 6 54 | 1 55 | 1 47 | 12 33 | 21 4 | 20 48 | 17 13 | | n.a. | F 3 |
| S 4 | 22 4 | 2n 4 | 4 23 | 23 53 | 1 25 | 25 11 | 1 39 | 9 8 | 2 33 | 2 59 | 1 28 | 4 27 | 2 24 | 16 2 | 0 45 | 6 55 | 1 55 | 1 48 | 12 33 | 21 4 | 20 49 | 17 16 | | n.a. | S 4 |
| S 5 | 22 13 | 7 17 | 4 50 | 24 16 | 1 31 | 25 8 | 1 40 | 8 54 | 2 34 | 2 58 | 1 27 | 4 25 | 2 24 | 16 2 | 0 45 | 6 55 | 1 55 | 1 48 | 12 33 | 21 5 | 20 50 | 17 18 | | n.a. | S 5 |
| M 6 | 22 21 | 12 13 | 5 5 | 24 36 | 1 36 | 25 4 | 1 41 | 8 39 | 2 35 | 2 57 | 1 27 | 4 24 | 2 24 | 16 2 | 0 45 | 6 56 | 1 55 | 1 48 | 12 34 | 21 6 | 20 50 | 17 20 | | n.a. | M 6 |
| T 7 | 22 29 | 16 41 | 5 7 | 24 52 | 1 41 | 24 59 | 1 42 | 8 25 | 2 36 | 2 56 | 1 27 | 4 23 | 2 25 | 16 2 | 0 45 | 6 57 | 1 55 | 1 48 | 12 34 | 21 7 | 20 51 | 17 23 | | n.a. | T 7 |
| W 8 | 22 36 | 20 31 | 4 55 | 25 6 | 1 45 | 24 53 | 1 42 | 8 11 | 2 37 | 2 55 | 1 26 | 4 22 | 2 25 | 16 2 | 0 45 | 6 57 | 1 55 | 1 49 | 12 34 | 21 8 | 20 51 | 17 25 | | n.a. | W 8 |
| T 9 | 22 43 | 23 32 | 4 31 | 25 18 | 1 48 | 24 47 | 1 43 | 7 57 | 2 38 | 2 54 | 1 26 | 4 21 | 2 25 | 16 3 | 0 45 | 6 58 | 1 55 | 1 49 | 12 34 | 21 10 | 20 52 | 17 27 | | n.a. | T 9 |
| F 10 | 22 50 | 25 31 | 3 54 | 25 26 | 1 51 | 24 40 | 1 43 | 7 43 | 2 39 | 2 53 | 1 26 | 4 20 | 2 25 | 16 3 | 0 45 | 6 58 | 1 55 | 1 49 | 12 34 | 21 11 | 20 53 | 17 29 | | n.a. | F 10 |
| S 11 | 22 56 | 26 20 | 3 6 | 25 32 | 1 53 | 24 32 | 1 44 | 7 28 | 2 40 | 2 51 | 1 26 | 4 19 | 2 26 | 16 3 | 0 45 | 6 59 | 1 55 | 1 49 | 12 34 | 21 12 | 20 53 | 17 32 | | n.a. | S 11 |
| S 12 | 23 2 | 25 51 | 2 9 | 25 36 | 1 54 | 24 24 | 1 44 | 7 14 | 2 41 | 2 50 | 1 25 | 4 18 | 2 26 | 16 3 | 0 45 | 6 59 | 1 55 | 1 49 | 12 34 | 21 13 | 20 54 | 17 34 | | n.a. | S 12 |
| M13 | 23 8 | 24 3 | 1 5 | 25 37 | 1 54 | 24 15 | 1 44 | 7 0 | 2 42 | 2 49 | 1 25 | 4 17 | 2 26 | 16 4 | 0 45 | 7 0 | 1 55 | 1 50 | 12 34 | 21 14 | 20 55 | 17 36 | | n.a. | M13 |
| T 14 | 23 13 | 21 2 | 0s 4 | 25 35 | 1 54 | 24 5 | 1 45 | 6 46 | 2 43 | 2 47 | 1 25 | 4 16 | 2 26 | 16 4 | 0 45 | 7 0 | 1 55 | 1 50 | 12 35 | 21 14 | 20 55 | 17 39 | | n.a. | T 14 |
| W15 | 23 18 | 16 55 | 1 14 | 25 32 | 1 53 | 23 55 | 1 45 | 6 32 | 2 44 | 2 45 | 1 24 | 4 15 | 2 27 | 16 4 | 0 46 | 7 1 | 1 56 | 1 50 | 12 35 | 21 14 | 20 56 | 17 41 | | n.a. | W15 |
| T 16 | 23 22 | 11 56 | 2 21 | 25 26 | 1 52 | 23 44 | 1 45 | 6 18 | 2 45 | 2 44 | 1 24 | 4 14 | 2 27 | 16 4 | 0 46 | 7 1 | 1 56 | 1 50 | 12 35 | 21 13 | 20 56 | 17 43 | | n.a. | T 16 |
| F 17 | 23 26 | 6 18 | 3 22 | 25 18 | 1 50 | 23 32 | 1 45 | 6 4 | 2 46 | 2 42 | 1 24 | 4 14 | 2 27 | 16 5 | 0 46 | 7 2 | 1 56 | 1 50 | 12 35 | 21 13 | 20 57 | 17 45 | | n.a. | F 17 |
| S 18 | 23 29 | 0 16 | 4 12 | 25 8 | 1 48 | 23 19 | 1 45 | 5 50 | 2 47 | 2 40 | 1 24 | 4 13 | 2 28 | 16 5 | 0 46 | 7 2 | 1 56 | 1 51 | 12 35 | 21 13 | 20 58 | 17 48 | | n.a. | S 18 |
| S 19 | 23 33 | 5s54 | 4 49 | 24 57 | 1 44 | 23 6 | 1 44 | 5 36 | 2 48 | 2 38 | 1 23 | 4 12 | 2 28 | 16 5 | 0 46 | 7 2 | 1 56 | 1 51 | 12 35 | 21 13 | 20 58 | 17 50 | | n.a. | S 19 |
| M20 | 23 35 | 11 54 | 5 9 | 24 43 | 1 41 | 22 52 | 1 44 | 5 23 | 2 49 | 2 36 | 1 23 | 4 12 | 2 28 | 16 6 | 0 46 | 7 3 | 1 56 | 1 51 | 12 36 | 21 13 | 20 59 | 17 52 | | n.a. | M20 |
| T 21 | 23 37 | 17 21 | 5 10 | 24 28 | 1 37 | 22 38 | 1 44 | 5 9 | 2 50 | 2 34 | 1 23 | 4 11 | 2 28 | 16 6 | 0 46 | 7 3 | 1 56 | 1 51 | 12 36 | 21 14 | 21 0 | 17 54 | | n.a. | T 21 |
| W22 | 23 39 | 21 49 | 4 50 | 24 12 | 1 32 | 22 23 | 1 43 | 4 55 | 2 51 | 2 32 | 1 22 | 4 10 | 2 29 | 16 7 | 0 46 | 7 4 | 1 56 | 1 51 | 12 36 | 21 15 | 21 0 | 17 57 | | n.a. | W22 |
| T 23 | 23 41 | 24 55 | 4 12 | 23 54 | 1 27 | 22 7 | 1 43 | 4 42 | 2 52 | 2 30 | 1 22 | 4 10 | 2 29 | 16 7 | 0 46 | 7 4 | 1 56 | 1 51 | 12 36 | 21 15 | 21 1 | 17 59 | | n.a. | T 23 |
| F 24 | 23 42 | 26 18 | 3 16 | 23 35 | 1 21 | 21 51 | 1 42 | 4 28 | 2 53 | 2 28 | 1 22 | 4 9 | 2 29 | 16 7 | 0 46 | 7 4 | 1 56 | 1 51 | 12 36 | 21 16 | 21 1 | 18 1 | | n.a. | F 24 |
| S 25 | 23 42 | 25 50 | 2 8 | 23 14 | 1 15 | 21 34 | 1 41 | 4 15 | 2 54 | 2 26 | 1 22 | 4 9 | 2 30 | 16 8 | 0 46 | 7 5 | 1 56 | 1 52 | 12 36 | 21 17 | 21 2 | 18 3 | | n.a. | S 25 |
| S 26 | 23 42 | 23 40 | 0 54 | 22 53 | 1 9 | 21 17 | 1 40 | 4 1 | 2 55 | 2 23 | 1 21 | 4 9 | 2 30 | 16 8 | 0 46 | 7 5 | 1 56 | 1 52 | 12 37 | 21 17 | 21 3 | 18 5 | | n.a. | S 26 |
| M27 | 23 42 | 20 7 | 0n22 | 22 30 | 1 2 | 20 59 | 1 40 | 3 48 | 2 56 | 2 21 | 1 21 | 4 8 | 2 30 | 16 9 | 0 46 | 7 6 | 1 56 | 1 52 | 12 37 | 21 17 | 21 3 | 18 8 | | n.a. | M27 |
| T 28 | 23 42 | 15 35 | 1 35 | 22 7 | 0 55 | 20 40 | 1 39 | 3 35 | 2 57 | 2 19 | 1 21 | 4 8 | 2 31 | 16 9 | 0 46 | 7 6 | 1 56 | 1 52 | 12 37 | 21 17 | 21 4 | 18 10 | | n.a. | T 28 |
| W29 | 23 40 | 10 26 | 2 41 | 21 43 | 0 47 | 20 21 | 1 38 | 3 22 | 2 57 | 2 16 | 1 21 | 4 8 | 2 31 | 16 10 | 0 46 | 7 6 | 1 56 | 1 52 | 12 37 | 21 17 | 21 5 | 18 12 | | n.a. | W29 |
| T 30 | 23n39 | 5s 0 | 3n36 | 21n18 | 0n39 | 20n 1 | 1n36 | 3s 9 | 2s58 | 2n14 | 1n20 | 4s 7 | 2s31 | 16s10 | 0s46 | 7n 7 | 1s56 | 1n52 | 12s37 | 21s16 | 21s 5 | 18n14 | | n.a. | T 30 |

Julian Day Number = 1686875.5, Delta T = 03h12m32s
Ecliptic obliquity = 23°42'28, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°22'15, Lahiri = - 5°15'15 Julian Calendar 1 June 95 BCE == Greg. Calendar 30 May 095 BCE

The year -94 astronomical counting style corresponds to year 095 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 95 BCE
# geocentric

## JULY 95 BCE (-94) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 18 23 18 | 4♋52'21 | 21♓15 | 0♌ 2 | 9♌12 | 29♓31 | 27♍36 | 25♓30 | 18°R30 | 22♈40 | 6♉23 | 25♏34 | 26♏28 | 5♉29 | n.a. | F 1 |
| S 2 | 18 27 14 | 5°49'42 | 3♈25 | 1°23 | 10°24 | 0♈ 4 | 27°42 | 25°31 | 18♒29 | 22°41 | 6°24 | 25°R34 | 26°25 | 5°35 | n.a. | S 2 |
| S 3 | 18 31 11 | 6°47'04 | 15°24 | 2°41 | 11°35 | 0°38 | 27°48 | 25°32 | 18°27 | 22°42 | 6°25 | 25°34 | 26°22 | 5°42 | n.a. | S 3 |
| M 4 | 18 35 7 | 7°44'27 | 27°18 | 3°58 | 12°46 | 1°12 | 27°55 | 25°33 | 18°26 | 22°43 | 6°25 | 25°33 | 26°19 | 5°49 | n.a. | M 4 |
| T 5 | 18 39 4 | 8°41'52 | 9♉11 | 5°12 | 13°57 | 1°45 | 28° 1 | 25°33 | 18°24 | 22°44 | 6°26 | 25°31 | 26°15 | 5°55 | n.a. | T 5 |
| W 6 | 18 43 1 | 9°39'18 | 21° 6 | 6°24 | 15° 9 | 2°17 | 28° 8 | 25°34 | 18°22 | 22°44 | 6°27 | 25°29 | 26°12 | 6° 2 | n.a. | W 6 |
| T 7 | 18 46 57 | 10°36'45 | 3♊ 8 | 7°34 | 16°20 | 2°50 | 28°14 | 25°34 | 18°21 | 22°45 | 6°27 | 25°27 | 26° 9 | 6° 9 | n.a. | T 7 |
| F 8 | 18 50 54 | 11°34'14 | 15°19 | 8°41 | 17°31 | 3°22 | 28°21 | 25°35 | 18°19 | 22°46 | 6°28 | 25°25 | 26° 6 | 6°16 | n.a. | F 8 |
| S 9 | 18 54 50 | 12°31'44 | 27°41 | 9°46 | 18°42 | 3°54 | 28°28 | 25°35 | 18°17 | 22°47 | 6°29 | 25°23 | 26° 3 | 6°22 | n.a. | S 9 |
| S 10 | 18 58 47 | 13°29'16 | 10♋16 | 10°49 | 19°53 | 4°26 | 28°35 | 25°35 | 18°15 | 22°47 | 6°29 | 25°22 | 26° 0 | 6°29 | n.a. | S 10 |
| M11 | 19 2 43 | 14°26'48 | 23° 5 | 11°49 | 21° 4 | 4°57 | 28°42 | 25°R35 | 18°13 | 22°48 | 6°30 | 25°D22 | 25°56 | 6°36 | n.a. | M11 |
| T 12 | 19 6 40 | 15°24'22 | 6♌ 7 | 12°46 | 22°15 | 5°28 | 28°50 | 25°35 | 18°12 | 22°49 | 6°31 | 25°22 | 25°53 | 6°43 | n.a. | T 12 |
| W13 | 19 10 36 | 16°21'57 | 19°24 | 13°40 | 23°26 | 5°58 | 28°57 | 25°35 | 18°10 | 22°49 | 6°31 | 25°22 | 25°50 | 6°49 | n.a. | W13 |
| T 14 | 19 14 33 | 17°19'32 | 2♍53 | 14°31 | 24°36 | 6°29 | 29° 5 | 25°35 | 18° 8 | 22°50 | 6°32 | 25°23 | 25°47 | 6°56 | n.a. | T 14 |
| F 15 | 19 18 30 | 18°17'09 | 16°35 | 15°19 | 25°47 | 6°59 | 29°13 | 25°35 | 18° 6 | 22°50 | 6°32 | 25°24 | 25°44 | 7° 3 | n.a. | F 15 |
| S 16 | 19 22 26 | 19°14'48 | 0♎28 | 16° 3 | 26°58 | 7°28 | 29°21 | 25°34 | 18° 4 | 22°51 | 6°33 | 25°24 | 25°40 | 7° 9 | n.a. | S 16 |
| S 17 | 19 26 23 | 20°12'27 | 14°32 | 16°44 | 28° 8 | 7°57 | 29°29 | 25°34 | 18° 2 | 22°51 | 6°33 | 25°R24 | 25°37 | 7°16 | n.a. | S 17 |
| M18 | 19 30 19 | 21°10'07 | 28°44 | 17°21 | 29°19 | 8°26 | 29°37 | 25°33 | 18° 0 | 22°52 | 6°34 | 25°24 | 25°34 | 7°23 | n.a. | M18 |
| T 19 | 19 34 16 | 22° 7'49 | 13♏ 3 | 17°54 | 0♍29 | 8°54 | 29°45 | 25°32 | 17°58 | 22°52 | 6°34 | 25°24 | 25°31 | 7°30 | n.a. | T 19 |
| W20 | 19 38 12 | 23° 5'31 | 27°24 | 18°23 | 1°40 | 9°23 | 29°53 | 25°31 | 17°56 | 22°52 | 6°35 | 25°24 | 25°28 | 7°36 | n.a. | W20 |
| T 21 | 19 42 9 | 24° 3'15 | 11♐45 | 18°48 | 2°50 | 9°50 | 0♎ 2 | 25°30 | 17°53 | 22°53 | 6°35 | 25°24 | 25°25 | 7°43 | n.a. | T 21 |
| F 22 | 19 46 5 | 25° 1'01 | 26° 2 | 19° 7 | 4° 0 | 10°17 | 0°10 | 25°29 | 17°51 | 22°53 | 6°36 | 25°D24 | 25°21 | 7°50 | n.a. | F 22 |
| S 23 | 19 50 2 | 25°58'47 | 10♑10 | 19°22 | 5°10 | 10°44 | 0°19 | 25°28 | 17°49 | 22°53 | 6°36 | 25°24 | 25°18 | 7°56 | n.a. | S 23 |
| S 24 | 19 53 59 | 26°56'35 | 24° 4 | 19°31 | 6°20 | 11°11 | 0°28 | 25°27 | 17°47 | 22°53 | 6°36 | 25°R24 | 25°15 | 8° 3 | n.a. | S 24 |
| M25 | 19 57 55 | 27°54'25 | 7♒43 | 19°R36 | 7°31 | 11°37 | 0°37 | 25°26 | 17°45 | 22°54 | 6°37 | 25°24 | 25°12 | 8°10 | n.a. | M25 |
| T 26 | 20 1 52 | 28°52'16 | 21° 3 | 19°34 | 8°40 | 12° 2 | 0°46 | 25°24 | 17°43 | 22°54 | 6°37 | 25°24 | 25° 9 | 8°17 | n.a. | T 26 |
| W27 | 20 5 48 | 29°50'09 | 4♓ 3 | 19°27 | 9°50 | 12°27 | 0°55 | 25°23 | 17°40 | 22°54 | 6°37 | 25°23 | 25° 6 | 8°23 | n.a. | W27 |
| T 28 | 20 9 45 | 0♌48'04 | 16°45 | 19°14 | 11° 0 | 12°52 | 1° 4 | 25°21 | 17°38 | 22°54 | 6°38 | 25°23 | 25° 2 | 8°30 | n.a. | T 28 |
| F 29 | 20 13 41 | 1°46'01 | 29°10 | 18°55 | 12°10 | 13°16 | 1°14 | 25°19 | 17°36 | 22°54 | 6°38 | 25°22 | 24°59 | 8°37 | n.a. | F 29 |
| S 30 | 20 17 38 | 2°43'59 | 11♈21 | 18°29 | 13°19 | 13°40 | 1°23 | 25°17 | 17°33 | 22°R54 | 6°38 | 25°21 | 24°56 | 8°43 | n.a. | S 30 |
| S 31 | 20 21 34 | 3♌42'00 | 23♈22 | 17♌58 | 14♍29 | 14♈ 3 | 1♎33 | 25♓15 | 17♒31 | 22♈54 | 6♉38 | 25♏21 | 24♏53 | 8♉50 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 23n37 | 0n28 | 4n20 | 20n52 | 0n31 | 19n41 | 1n35 | 2s56 | 2s59 | 2n11 | 1n20 | 4s 7 | 2s31 | 16s11 | 0s46 | 7n 7 | 1s56 | 1n52 | 12s37 | 21s16 | 21s 6 | 18n16 | | n.a. |
| S 2 | 23 35 | 5 49 | 4 52 | 20 26 | 0 22 | 19 20 | 1 34 | 2 43 | 3 0 | 2 8 | 1 20 | 4 7 | 2 32 | 16 11 | 0 46 | 7 7 | 1 57 | 1 52 | 12 38 | 21 16 | 21 6 | 18 19 | | n.a. |
| S 3 | 23 32 | 10 53 | 5 10 | 19 59 | 0 13 | 18 59 | 1 32 | 2 30 | 3 1 | 2 6 | 1 19 | 4 7 | 2 32 | 16 12 | 0 46 | 7 7 | 1 57 | 1 52 | 12 38 | 21 16 | 21 7 | 18 21 | | n.a. |
| M 4 | 23 29 | 15 31 | 5 15 | 19 32 | 0 4 | 18 37 | 1 31 | 2 18 | 3 2 | 2 3 | 1 19 | 4 7 | 2 32 | 16 12 | 0 46 | 7 8 | 1 57 | 1 52 | 12 38 | 21 16 | 21 8 | 18 23 | | n.a. |
| T 5 | 23 25 | 19 32 | 5 6 | 19 5 | 0s 6 | 18 15 | 1 29 | 2 5 | 3 3 | 2 0 | 1 19 | 4 7 | 2 33 | 16 13 | 0 46 | 7 8 | 1 57 | 1 52 | 12 38 | 21 16 | 21 8 | 18 25 | | n.a. |
| W 6 | 23 21 | 22 48 | 4 44 | 18 38 | 0 16 | 17 52 | 1 28 | 1 53 | 3 3 | 1 57 | 1 19 | 4 7 | 2 33 | 16 13 | 0 46 | 7 8 | 1 57 | 1 52 | 12 38 | 21 17 | 21 9 | 18 27 | | n.a. |
| T 7 | 23 17 | 25 6 | 4 10 | 18 10 | 0 26 | 17 29 | 1 26 | 1 41 | 3 4 | 1 54 | 1 18 | 4 7 | 2 33 | 16 14 | 0 46 | 7 8 | 1 57 | 1 52 | 12 39 | 21 17 | 21 9 | 18 29 | | n.a. |
| F 8 | 23 12 | 26 16 | 3 24 | 17 42 | 0 36 | 17 5 | 1 24 | 1 28 | 3 5 | 1 51 | 1 18 | 4 7 | 2 33 | 16 14 | 0 46 | 7 9 | 1 57 | 1 52 | 12 39 | 21 18 | 21 10 | 18 31 | | n.a. |
| S 9 | 23 7 | 26 8 | 2 27 | 17 15 | 0 47 | 16 41 | 1 22 | 1 16 | 3 6 | 1 48 | 1 18 | 4 7 | 2 34 | 16 15 | 0 46 | 7 9 | 1 57 | 1 52 | 12 39 | 21 18 | 21 11 | 18 34 | | n.a. |
| S 10 | 23 1 | 24 41 | 1 23 | 16 48 | 0 58 | 16 17 | 1 20 | 1 4 | 3 7 | 1 45 | 1 18 | 4 7 | 2 34 | 16 16 | 0 46 | 7 9 | 1 57 | 1 52 | 12 39 | 21 18 | 21 11 | 18 36 | | n.a. |
| M11 | 22 55 | 21 55 | 0 13 | 16 20 | 1 9 | 15 52 | 1 18 | 0 53 | 3 8 | 1 42 | 1 17 | 4 8 | 2 34 | 16 16 | 0 46 | 7 9 | 1 57 | 1 52 | 12 39 | 21 18 | 21 12 | 18 38 | | n.a. |
| T 12 | 22 48 | 18 0 | 0s59 | 15 54 | 1 20 | 15 27 | 1 16 | 0 41 | 3 8 | 1 39 | 1 17 | 4 8 | 2 35 | 16 17 | 0 46 | 7 9 | 1 57 | 1 52 | 12 40 | 21 18 | 21 12 | 18 40 | | n.a. |
| W13 | 22 42 | 13 8 | 2 9 | 15 27 | 1 31 | 15 1 | 1 14 | 0 29 | 3 9 | 1 36 | 1 17 | 4 8 | 2 35 | 16 17 | 0 46 | 7 10 | 1 57 | 1 52 | 12 40 | 21 18 | 21 13 | 18 42 | | n.a. |
| T 14 | 22 34 | 7 34 | 3 13 | 15 2 | 1 42 | 14 35 | 1 11 | 0 18 | 3 10 | 1 32 | 1 17 | 4 9 | 2 35 | 16 18 | 0 46 | 7 10 | 1 57 | 1 52 | 12 40 | 21 18 | 21 14 | 18 44 | | n.a. |
| F 15 | 22 27 | 1 34 | 4 7 | 14 37 | 1 54 | 14 9 | 1 9 | 0 7 | 3 10 | 1 29 | 1 16 | 4 9 | 2 36 | 16 19 | 0 46 | 7 10 | 1 57 | 1 52 | 12 40 | 21 18 | 21 14 | 18 46 | | n.a. |
| S 16 | 22 19 | 4s34 | 4 47 | 14 13 | 2 5 | 13 42 | 1 7 | 0n 4 | 3 11 | 1 26 | 1 16 | 4 9 | 2 36 | 16 19 | 0 46 | 7 10 | 1 57 | 1 52 | 12 41 | 21 18 | 21 15 | 18 48 | | n.a. |
| S 17 | 22 10 | 10 33 | 5 11 | 13 49 | 2 17 | 13 15 | 1 4 | 0 15 | 3 12 | 1 22 | 1 16 | 4 10 | 2 36 | 16 20 | 0 46 | 7 10 | 1 58 | 1 52 | 12 41 | 21 18 | 21 15 | 18 51 | | n.a. |
| M18 | 22 1 | 16 3 | 5 16 | 13 27 | 2 28 | 12 48 | 1 1 | 0 26 | 3 13 | 1 19 | 1 16 | 4 10 | 2 36 | 16 21 | 0 46 | 7 10 | 1 58 | 1 52 | 12 41 | 21 18 | 21 16 | 18 53 | | n.a. |
| T 19 | 21 52 | 20 43 | 5 2 | 13 6 | 2 40 | 12 20 | 0 59 | 0 37 | 3 13 | 1 15 | 1 16 | 4 11 | 2 37 | 16 21 | 0 47 | 7 10 | 1 58 | 1 52 | 12 41 | 21 18 | 21 17 | 18 55 | | n.a. |
| W20 | 21 42 | 24 9 | 4 29 | 12 47 | 2 51 | 11 52 | 0 56 | 0 47 | 3 14 | 1 12 | 1 15 | 4 12 | 2 37 | 16 22 | 0 47 | 7 10 | 1 58 | 1 52 | 12 41 | 21 18 | 21 17 | 18 57 | | n.a. |
| T 21 | 21 32 | 26 4 | 3 39 | 12 29 | 3 2 | 11 24 | 0 53 | 0 58 | 3 15 | 1 8 | 1 15 | 4 12 | 2 37 | 16 23 | 0 47 | 7 10 | 1 58 | 1 52 | 12 42 | 21 18 | 21 18 | 18 59 | | n.a. |
| F 22 | 21 22 | 26 14 | 2 36 | 12 12 | 3 13 | 10 55 | 0 50 | 1 8 | 3 15 | 1 4 | 1 15 | 4 13 | 2 38 | 16 23 | 0 47 | 7 10 | 1 58 | 1 52 | 12 42 | 21 18 | 21 18 | 19 1 | | n.a. |
| S 23 | 21 11 | 24 42 | 1 23 | 11 58 | 3 23 | 10 27 | 0 47 | 1 18 | 3 16 | 1 1 | 1 15 | 4 14 | 2 38 | 16 24 | 0 47 | 7 10 | 1 58 | 1 52 | 12 42 | 21 18 | 21 19 | 19 3 | | n.a. |
| S 24 | 21 0 | 21 39 | 0 7 | 11 45 | 3 33 | 9 58 | 0 44 | 1 28 | 3 16 | 0 57 | 1 14 | 4 14 | 2 38 | 16 25 | 0 47 | 7 10 | 1 58 | 1 52 | 12 42 | 21 18 | 21 19 | 19 5 | | n.a. |
| M25 | 20 49 | 17 27 | 1n 8 | 11 35 | 3 43 | 9 28 | 0 41 | 1 38 | 3 17 | 0 53 | 1 14 | 4 15 | 2 38 | 16 25 | 0 47 | 7 10 | 1 58 | 1 52 | 12 43 | 21 18 | 21 20 | 19 7 | | n.a. |
| T 26 | 20 37 | 12 28 | 2 17 | 11 27 | 3 52 | 8 59 | 0 37 | 1 47 | 3 18 | 0 49 | 1 14 | 4 16 | 2 39 | 16 26 | 0 47 | 7 10 | 1 58 | 1 51 | 12 43 | 21 18 | 21 21 | 19 9 | | n.a. |
| W27 | 20 25 | 7 3 | 3 18 | 11 21 | 4 0 | 8 29 | 0 34 | 1 56 | 3 18 | 0 45 | 1 14 | 4 17 | 2 39 | 16 27 | 0 47 | 7 10 | 1 58 | 1 51 | 12 43 | 21 18 | 21 21 | 19 11 | | n.a. |
| T 28 | 20 12 | 1 29 | 4 8 | 11 18 | 4 8 | 8 0 | 0 31 | 2 6 | 3 19 | 0 42 | 1 14 | 4 18 | 2 39 | 16 28 | 0 47 | 7 10 | 1 58 | 1 51 | 12 43 | 21 18 | 21 22 | 19 13 | | n.a. |
| F 29 | 19 59 | 4n 0 | 4 44 | 11 18 | 4 14 | 7 30 | 0 27 | 2 15 | 3 19 | 0 38 | 1 13 | 4 19 | 2 39 | 16 28 | 0 47 | 7 10 | 1 58 | 1 51 | 12 44 | 21 18 | 21 22 | 19 15 | | n.a. |
| S 30 | 19 46 | 9 14 | 5 7 | 11 21 | 4 19 | 6 59 | 0 24 | 2 23 | 3 20 | 0 34 | 1 13 | 4 20 | 2 40 | 16 29 | 0 47 | 7 10 | 1 58 | 1 51 | 12 44 | 21 18 | 21 23 | 19 17 | | n.a. |
| S 31 | 19n33 | 14n 4 | 5n16 | 11n26 | 4s23 | 6n29 | 0n20 | 2n32 | 3s20 | 0n30 | 1n13 | 4s21 | 2s40 | 16s30 | 0s47 | 7n10 | 1s58 | 1n51 | 12s44 | 21s18 | 21s24 | 19n19 | | n.a. |

Julian Day Number = 1686905.5, Delta T = 03h12m31s
Ecliptic obliquity = 23°42'27, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°22'11, Lahiri = - 5°15'11 Julian Calendar 1 July 95 BCE == Greg. Calendar 29 June 095 BCE

The year -94 astronomical counting style corresponds to year 095 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 95 BCE
# geocentric

## AUGUST 95 BCE (-94) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 20 25 31 | 4♌40'02 | 5♉17 | 17°R22 | 15♍39 | 14♈26 | 1♎42 | 25°R13 | 17°R29 | 22°R54 | 6♉38 | 25°D20 | 24♑50 | 8♉57 | n.a. | M 1 |
| T 2 | 20 29 28 | 5°38'07 | 17°10 | 16♌39 | 16°48 | 14°48 | 1°52 | 25♓11 | 17♒26 | 22♈54 | 6°39 | 25♑21 | 24°46 | 9° 4 | n.a. | T 2 |
| W 3 | 20 33 24 | 6°36'13 | 29° 6 | 15°52 | 17°57 | 15°10 | 2° 2 | 25° 9 | 17°24 | 22°54 | 6°39 | 25°21 | 24°43 | 9°10 | n.a. | W 3 |
| T 4 | 20 37 21 | 7°34'22 | 11♊10 | 15° 1 | 19° 6 | 15°31 | 2°12 | 25° 6 | 17°22 | 22°54 | 6°39 | 25°22 | 24°40 | 9°17 | n.a. | T 4 |
| F 5 | 20 41 17 | 8°32'33 | 23°25 | 14° 6 | 20°16 | 15°51 | 2°22 | 25° 4 | 17°19 | 22°53 | 6°39 | 25°24 | 24°37 | 9°24 | n.a. | F 5 |
| S 6 | 20 45 14 | 9°30'46 | 5♋55 | 13° 9 | 21°25 | 16°11 | 2°32 | 25° 1 | 17°17 | 22°53 | 6°39 | 25°25 | 24°34 | 9°31 | n.a. | S 6 |
| S 7 | 20 49 10 | 10°29'01 | 18°43 | 12°11 | 22°34 | 16°31 | 2°42 | 24°59 | 17°15 | 22°53 | 6°39 | 25°25 | 24°31 | 9°37 | n.a. | S 7 |
| M 8 | 20 53 7 | 11°27'18 | 1♌50 | 11°12 | 23°42 | 16°50 | 2°53 | 24°56 | 17°12 | 22°53 | 6°39 | 25°R25 | 24°27 | 9°44 | n.a. | M 8 |
| T 9 | 20 57 3 | 12°25'36 | 15°15 | 10°15 | 24°51 | 17° 8 | 3° 3 | 24°53 | 17°10 | 22°52 | 6°39 | 25°24 | 24°24 | 9°51 | n.a. | T 9 |
| W10 | 21 1 0 | 13°23'57 | 28°57 | 9°20 | 26° 0 | 17°25 | 3°14 | 24°50 | 17° 7 | 22°52 | 6°R39 | 25°23 | 24°21 | 9°57 | n.a. | W10 |
| T 11 | 21 4 57 | 14°22'19 | 12♍53 | 8°29 | 27° 9 | 17°42 | 3°24 | 24°47 | 17° 5 | 22°52 | 6°39 | 25°20 | 24°18 | 10° 4 | n.a. | T 11 |
| F 12 | 21 8 53 | 15°20'43 | 27° 1 | 7°43 | 28°17 | 17°59 | 3°35 | 24°44 | 17° 3 | 22°51 | 6°39 | 25°18 | 24°15 | 10°11 | n.a. | F 12 |
| S 13 | 21 12 50 | 16°19'09 | 11♎15 | 7° 3 | 29°25 | 18°14 | 3°46 | 24°41 | 17° 0 | 22°51 | 6°39 | 25°15 | 24°11 | 10°18 | n.a. | S 13 |
| S 14 | 21 16 46 | 17°17'37 | 25°32 | 6°30 | 0♎34 | 18°29 | 3°57 | 24°38 | 16°58 | 22°50 | 6°39 | 25°13 | 24° 8 | 10°24 | n.a. | S 14 |
| M15 | 21 20 43 | 18°16'06 | 9♏49 | 6° 5 | 1°42 | 18°44 | 4° 7 | 24°35 | 16°55 | 22°50 | 6°39 | 25°12 | 24° 5 | 10°31 | n.a. | M15 |
| T 16 | 21 24 39 | 19°14'37 | 24° 1 | 5°49 | 2°50 | 18°57 | 4°18 | 24°31 | 16°53 | 22°49 | 6°39 | 25°D12 | 24° 2 | 10°38 | n.a. | T 16 |
| W17 | 21 28 36 | 20°13'10 | 8♐ 8 | 5°D42 | 3°58 | 19°10 | 4°30 | 24°28 | 16°51 | 22°49 | 6°39 | 25°13 | 23°59 | 10°44 | n.a. | W17 |
| T 18 | 21 32 32 | 21°11'45 | 22° 7 | 5°44 | 5° 5 | 19°22 | 4°41 | 24°24 | 16°48 | 22°48 | 6°39 | 25°14 | 23°56 | 10°51 | n.a. | T 18 |
| F 19 | 21 36 29 | 22°10'21 | 5♑57 | 5°56 | 6°13 | 19°34 | 4°52 | 24°21 | 16°46 | 22°48 | 6°38 | 25°15 | 23°52 | 10°58 | n.a. | F 19 |
| S 20 | 21 40 26 | 23° 8'59 | 19°37 | 6°17 | 7°21 | 19°45 | 5° 3 | 24°17 | 16°43 | 22°47 | 6°38 | 25°R16 | 23°49 | 11° 5 | n.a. | S 20 |
| S 21 | 21 44 22 | 24° 7'39 | 3♒ 6 | 6°48 | 8°28 | 19°55 | 5°15 | 24°13 | 16°41 | 22°46 | 6°38 | 25°16 | 23°46 | 11°11 | n.a. | S 21 |
| M22 | 21 48 19 | 25° 6'21 | 16°22 | 7°27 | 9°35 | 20° 4 | 5°26 | 24° 9 | 16°39 | 22°46 | 6°38 | 25°15 | 23°43 | 11°18 | n.a. | M22 |
| T 23 | 21 52 15 | 26° 5'05 | 29°25 | 8°15 | 10°42 | 20°12 | 5°38 | 24° 5 | 16°36 | 22°45 | 6°37 | 25°12 | 23°40 | 11°25 | n.a. | T 23 |
| W24 | 21 56 12 | 27° 3'51 | 12♓14 | 9°11 | 11°49 | 20°20 | 5°49 | 24° 1 | 16°34 | 22°44 | 6°37 | 25° 7 | 23°37 | 11°31 | n.a. | W24 |
| T 25 | 22 0 8 | 28° 2'39 | 24°48 | 10°14 | 12°56 | 20°27 | 6° 1 | 23°57 | 16°32 | 22°43 | 6°37 | 25° 2 | 23°33 | 11°38 | n.a. | T 25 |
| F 26 | 22 4 5 | 29° 1'29 | 7♈ 9 | 11°25 | 14° 2 | 20°33 | 6°13 | 23°53 | 16°29 | 22°42 | 6°37 | 24°56 | 23°30 | 11°45 | n.a. | F 26 |
| S 27 | 22 8 1 | 0♍ 0'22 | 19°18 | 12°41 | 15° 9 | 20°38 | 6°24 | 23°49 | 16°27 | 22°42 | 6°36 | 24°50 | 23°27 | 11°52 | n.a. | S 27 |
| S 28 | 22 11 58 | 0°59'17 | 1♉17 | 14° 2 | 16°15 | 20°42 | 6°36 | 23°45 | 16°25 | 22°41 | 6°36 | 24°45 | 23°24 | 11°58 | n.a. | S 28 |
| M29 | 22 15 54 | 1°58'14 | 13°11 | 15°29 | 17°21 | 20°46 | 6°48 | 23°41 | 16°22 | 22°40 | 6°35 | 24°42 | 23°21 | 12° 5 | n.a. | M29 |
| T 30 | 22 19 51 | 2°57'14 | 25° 3 | 17° 0 | 18°27 | 20°49 | 7° 0 | 23°36 | 16°20 | 22°39 | 6°35 | 24°40 | 23°17 | 12°12 | n.a. | T 30 |
| W31 | 22 23 48 | 3♍56'16 | 6♊57 | 18♌34 | 19♎33 | 20♈50 | 7♎12 | 23♓32 | 16♒18 | 22♈38 | 6♉35 | 24°D39 | 23♑14 | 12♉18 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| M 1 | 19n19 | 18n19 | 5n12 | 11n35 | 4s26 | 5n58 | 0n16 | 2n40 | 3s21 | 0n25 | 1n13 | 4s22 | 2s40 | 16s31 | 0s47 | 7n10 | 1s58 | 1n51 | 12s44 | 21s18 | 21s24 | 19n21 | | | n.a. |
| T 2 | 19 4 | 21 50 | 4 54 | 11 47 | 4 27 | 5 28 | 0 13 | 2 49 | 3 21 | 0 21 | 1 13 | 4 23 | 2 41 | 16 31 | 0 47 | 7 10 | 1 59 | 1 50 | 12 44 | 21 18 | 21 25 | 19 23 | | | n.a. |
| W 3 | 18 50 | 24 28 | 4 23 | 12 1 | 4 26 | 4 57 | 0 9 | 2 57 | 3 21 | 0 17 | 1 12 | 4 24 | 2 41 | 16 32 | 0 47 | 7 10 | 1 59 | 1 50 | 12 45 | 21 18 | 21 25 | 19 25 | | | n.a. |
| T 4 | 18 35 | 26 1 | 3 41 | 12 19 | 4 23 | 4 26 | 0 5 | 3 4 | 3 22 | 0 13 | 1 12 | 4 25 | 2 41 | 16 33 | 0 47 | 7 10 | 1 59 | 1 50 | 12 45 | 21 18 | 21 26 | 19 27 | | | n.a. |
| F 5 | 18 20 | 26 20 | 2 48 | 12 39 | 4 19 | 3 55 | 0 1 | 3 12 | 3 22 | 0 9 | 1 12 | 4 27 | 2 41 | 16 33 | 0 47 | 7 10 | 1 59 | 1 50 | 12 45 | 21 18 | 21 26 | 19 29 | | | n.a. |
| S 6 | 18 4 | 25 20 | 1 46 | 13 1 | 4 12 | 3 24 | 0s 3 | 3 19 | 3 23 | 0 5 | 1 12 | 4 28 | 2 42 | 16 34 | 0 47 | 7 10 | 1 59 | 1 50 | 12 45 | 21 18 | 21 27 | 19 31 | | | n.a. |
| S 7 | 17 48 | 23 0 | 0 37 | 13 26 | 4 4 | 2 53 | 0 7 | 3 27 | 3 23 | 0 0 | 1 12 | 4 29 | 2 42 | 16 35 | 0 47 | 7 9 | 1 59 | 1 50 | 12 46 | 21 18 | 21 28 | 19 33 | | | n.a. |
| M 8 | 17 32 | 19 24 | 0s35 | 13 52 | 3 54 | 2 22 | 0 11 | 3 34 | 3 23 | 0s 4 | 1 11 | 4 30 | 2 42 | 16 36 | 0 47 | 7 9 | 1 59 | 1 49 | 12 46 | 21 18 | 21 28 | 19 35 | | | n.a. |
| T 9 | 17 16 | 14 44 | 1 47 | 14 19 | 3 41 | 1 50 | 0 15 | 3 40 | 3 24 | 0 8 | 1 11 | 4 32 | 2 42 | 16 36 | 0 47 | 7 9 | 1 59 | 1 49 | 12 46 | 21 18 | 21 29 | 19 37 | | | n.a. |
| W10 | 16 59 | 9 15 | 2 54 | 14 47 | 3 27 | 1 19 | 0 19 | 3 47 | 3 24 | 0 13 | 1 11 | 4 33 | 2 43 | 16 37 | 0 47 | 7 9 | 1 59 | 1 49 | 12 46 | 21 18 | 21 29 | 19 39 | | | n.a. |
| T 11 | 16 42 | 3 13 | 3 52 | 15 15 | 3 12 | 0 48 | 0 23 | 3 53 | 3 24 | 0 17 | 1 11 | 4 35 | 2 43 | 16 38 | 0 47 | 7 9 | 1 59 | 1 49 | 12 47 | 21 18 | 21 30 | 19 41 | | | n.a. |
| F 12 | 16 25 | 3s 2 | 4 37 | 15 43 | 2 55 | 0 16 | 0 28 | 3 59 | 3 24 | 0 22 | 1 11 | 4 36 | 2 43 | 16 39 | 0 47 | 7 9 | 1 59 | 1 48 | 12 47 | 21 19 | 21 30 | 19 43 | | | n.a. |
| S 13 | 16 7 | 9 10 | 5 5 | 16 11 | 2 38 | 0s15 | 0 32 | 4 5 | 3 24 | 0 26 | 1 11 | 4 38 | 2 43 | 16 39 | 0 47 | 7 8 | 1 59 | 1 48 | 12 47 | 21 19 | 21 31 | 19 45 | | | n.a. |
| S 14 | 15 49 | 14 51 | 5 14 | 16 37 | 2 19 | 0 47 | 0 36 | 4 11 | 3 25 | 0 31 | 1 10 | 4 39 | 2 43 | 16 40 | 0 47 | 7 8 | 1 59 | 1 48 | 12 47 | 21 20 | 21 32 | 19 47 | | | n.a. |
| M15 | 15 31 | 19 43 | 5 4 | 17 1 | 2 0 | 1 18 | 0 41 | 4 16 | 3 25 | 0 35 | 1 10 | 4 41 | 2 44 | 16 41 | 0 47 | 7 8 | 1 59 | 1 48 | 12 48 | 21 20 | 21 32 | 19 49 | | | n.a. |
| T 16 | 15 13 | 23 26 | 4 36 | 17 24 | 1 41 | 1 50 | 0 45 | 4 21 | 3 25 | 0 40 | 1 10 | 4 42 | 2 44 | 16 42 | 0 47 | 7 8 | 1 59 | 1 47 | 12 48 | 21 20 | 21 33 | 19 51 | | | n.a. |
| W17 | 14 54 | 25 42 | 3 50 | 17 44 | 1 22 | 2 21 | 0 50 | 4 26 | 3 25 | 0 44 | 1 10 | 4 44 | 2 44 | 16 42 | 0 47 | 7 7 | 2 0 | 1 47 | 12 48 | 21 20 | 21 33 | 19 53 | | | n.a. |
| T 18 | 14 36 | 26 20 | 2 52 | 18 2 | 1 3 | 2 52 | 0 54 | 4 31 | 3 25 | 0 49 | 1 10 | 4 45 | 2 44 | 16 43 | 0 47 | 7 7 | 2 0 | 1 47 | 12 48 | 21 20 | 21 34 | 19 55 | | | n.a. |
| F 19 | 14 17 | 25 18 | 1 44 | 18 16 | 0 45 | 3 23 | 0 59 | 4 35 | 3 25 | 0 54 | 1 10 | 4 47 | 2 44 | 16 44 | 0 47 | 7 7 | 2 0 | 1 47 | 12 48 | 21 19 | 21 34 | 19 57 | | | n.a. |
| S 20 | 13 57 | 22 46 | 0 31 | 18 28 | 0 27 | 3 55 | 1 3 | 4 39 | 3 25 | 0 58 | 1 9 | 4 49 | 2 45 | 16 45 | 0 47 | 7 6 | 2 0 | 1 46 | 12 49 | 21 19 | 21 35 | 19 59 | | | n.a. |
| S 21 | 13 38 | 18 59 | 0n43 | 18 37 | 0 10 | 4 26 | 1 8 | 4 43 | 3 24 | 1 3 | 1 9 | 4 50 | 2 45 | 16 45 | 0 47 | 7 6 | 2 0 | 1 46 | 12 49 | 21 19 | 21 35 | 20 1 | | | n.a. |
| M22 | 13 18 | 14 19 | 1 53 | 18 42 | 0n 6 | 4 57 | 1 12 | 4 47 | 3 24 | 1 8 | 1 9 | 4 52 | 2 45 | 16 46 | 0 47 | 7 6 | 2 0 | 1 46 | 12 49 | 21 20 | 21 36 | 20 3 | | | n.a. |
| T 23 | 12 58 | 9 4 | 2 56 | 18 44 | 0 21 | 5 28 | 1 17 | 4 50 | 3 24 | 1 12 | 1 9 | 4 54 | 2 45 | 16 47 | 0 47 | 7 5 | 2 0 | 1 45 | 12 49 | 21 20 | 21 37 | 20 4 | | | n.a. |
| W24 | 12 38 | 3 32 | 3 48 | 18 43 | 0 35 | 5 58 | 1 22 | 4 53 | 3 24 | 1 17 | 1 9 | 4 55 | 2 45 | 16 47 | 0 47 | 7 5 | 2 0 | 1 45 | 12 50 | 21 21 | 21 37 | 20 6 | | | n.a. |
| T 25 | 12 17 | 2n 1 | 4 29 | 18 38 | 0 47 | 6 29 | 1 26 | 4 56 | 3 24 | 1 22 | 1 9 | 4 57 | 2 46 | 16 48 | 0 47 | 7 5 | 2 0 | 1 45 | 12 50 | 21 22 | 21 38 | 20 8 | | | n.a. |
| F 26 | 11 57 | 7 23 | 4 56 | 18 30 | 0 59 | 6 59 | 1 31 | 4 59 | 3 23 | 1 27 | 1 8 | 4 59 | 2 46 | 16 49 | 0 47 | 7 4 | 2 0 | 1 45 | 12 50 | 21 23 | 21 38 | 20 10 | | | n.a. |
| S 27 | 11 36 | 12 24 | 5 9 | 18 18 | 1 9 | 7 30 | 1 36 | 5 1 | 3 23 | 1 32 | 1 8 | 5 1 | 2 46 | 16 50 | 0 47 | 7 4 | 2 0 | 1 44 | 12 50 | 21 24 | 21 39 | 20 12 | | | n.a. |
| S 28 | 11 15 | 16 52 | 5 9 | 18 3 | 1 18 | 8 0 | 1 40 | 5 3 | 3 22 | 1 36 | 1 8 | 5 3 | 2 46 | 16 50 | 0 47 | 7 4 | 2 0 | 1 44 | 12 50 | 21 25 | 21 39 | 20 14 | | | n.a. |
| M29 | 10 53 | 20 39 | 4 55 | 17 45 | 1 26 | 8 30 | 1 45 | 5 5 | 3 22 | 1 41 | 1 8 | 5 4 | 2 46 | 16 51 | 0 47 | 7 3 | 2 0 | 1 44 | 12 51 | 21 26 | 21 40 | 20 16 | | | n.a. |
| T 30 | 10 32 | 23 34 | 4 28 | 17 24 | 1 33 | 9 0 | 1 50 | 5 6 | 3 21 | 1 46 | 1 8 | 5 6 | 2 46 | 16 52 | 0 47 | 7 3 | 2 0 | 1 43 | 12 51 | 21 26 | 21 40 | 20 18 | | | n.a. |
| W31 | 10n10 | 25n30 | 3n50 | 17n 0 | 1n39 | 9s30 | 1s54 | 5n 7 | 3s21 | 1s51 | 1n 8 | 5s 8 | 2s46 | 16s52 | 0s47 | 7n 2 | 2s 0 | 1n43 | 12s51 | 21s26 | 21s41 | 20n19 | | | n.a. |

Julian Day Number = 1686936.5, Delta T = 03h12m30s
Ecliptic obliquity = 23°42'27, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°22'07, Lahiri = - 5°15'07 Julian Calendar 1 Aug. 95 BCE == Greg. Calendar 30 July 095 BCE

The year -94 astronomical counting style corresponds to year 095 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 95 BCE
# geocentric

## SEPTEMBER 95 BCE (-94) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 22 27 44 | 4♍55'20 | 18♊59 | 20♌11 | 20♎39 | 20♈51 | 7♎24 | 23°R28 | 16°R16 | 22°R37 | 6°R34 | 24♑40 | 23♑11 | 12♉25 | n.a. | T 1 |
| F 2 | 22 31 41 | 5°54'27 | 1♋14 | 21°51 | 21°44 | 20°R51 | 7°36 | 23♓23 | 16♒13 | 22♈36 | 6♉34 | 24°42 | 23° 8 | 12°32 | n.a. | F 2 |
| S 3 | 22 35 37 | 6°53'37 | 13°47 | 23°33 | 22°49 | 20°51 | 7°48 | 23°19 | 16°11 | 22°35 | 6°33 | 24°43 | 23° 5 | 12°39 | n.a. | S 3 |
| S 4 | 22 39 34 | 7°52'48 | 26°40 | 25°16 | 23°54 | 20°49 | 8° 1 | 23°14 | 16° 9 | 22°34 | 6°33 | 24°R44 | 23° 2 | 12°45 | n.a. | S 4 |
| M 5 | 22 43 30 | 8°52'02 | 9♌58 | 27° 0 | 24°59 | 20°46 | 8°13 | 23°10 | 16° 7 | 22°33 | 6°32 | 24°42 | 22°58 | 12°52 | n.a. | M 5 |
| T 6 | 22 47 27 | 9°51'19 | 23°40 | 28°46 | 26° 4 | 20°43 | 8°25 | 23° 5 | 16° 5 | 22°31 | 6°32 | 24°39 | 22°55 | 12°59 | n.a. | T 6 |
| W 7 | 22 51 23 | 10°50'37 | 7♍44 | 0♍32 | 27° 8 | 20°38 | 8°38 | 23° 0 | 16° 3 | 22°30 | 6°31 | 24°34 | 22°52 | 13° 5 | n.a. | W 7 |
| T 8 | 22 55 20 | 11°49'58 | 22° 8 | 2°18 | 28°13 | 20°33 | 8°50 | 22°56 | 16° 0 | 22°29 | 6°30 | 24°27 | 22°49 | 13°12 | n.a. | T 8 |
| F 9 | 22 59 17 | 12°49'20 | 6♎44 | 4° 4 | 29°17 | 20°26 | 9° 3 | 22°51 | 15°58 | 22°28 | 6°30 | 24°20 | 22°46 | 13°19 | n.a. | F 9 |
| S 10 | 23 3 13 | 13°48'45 | 21°26 | 5°51 | 0♏20 | 20°19 | 9°15 | 22°46 | 15°56 | 22°27 | 6°29 | 24°12 | 22°43 | 13°26 | n.a. | S 10 |
| S 11 | 23 7 10 | 14°48'12 | 6♏ 6 | 7°37 | 1°24 | 20°11 | 9°28 | 22°42 | 15°54 | 22°25 | 6°29 | 24° 5 | 22°39 | 13°32 | n.a. | S 11 |
| M12 | 23 11 6 | 15°47'40 | 20°37 | 9°23 | 2°27 | 20° 2 | 9°40 | 22°37 | 15°52 | 22°24 | 6°28 | 24° 1 | 22°36 | 13°39 | n.a. | M12 |
| T 13 | 23 15 3 | 16°47'11 | 4♐56 | 11° 9 | 3°30 | 19°52 | 9°53 | 22°32 | 15°50 | 22°23 | 6°27 | 23°58 | 22°33 | 13°46 | n.a. | T 13 |
| W14 | 23 18 59 | 17°46'43 | 18°59 | 12°54 | 4°33 | 19°42 | 10° 6 | 22°27 | 15°48 | 22°22 | 6°27 | 23°D57 | 22°30 | 13°52 | n.a. | W14 |
| T 15 | 23 22 56 | 18°46'18 | 2♑47 | 14°39 | 5°35 | 19°30 | 10°19 | 22°22 | 15°46 | 22°20 | 6°26 | 23°58 | 22°27 | 13°59 | n.a. | T 15 |
| F 16 | 23 26 52 | 19°45'54 | 16°19 | 16°23 | 6°38 | 19°18 | 10°31 | 22°18 | 15°45 | 22°19 | 6°25 | 23°59 | 22°23 | 14° 6 | n.a. | F 16 |
| S 17 | 23 30 49 | 20°45'31 | 29°37 | 18° 7 | 7°39 | 19° 5 | 10°44 | 22°13 | 15°43 | 22°17 | 6°24 | 23°R59 | 22°20 | 14°13 | n.a. | S 17 |
| S 18 | 23 34 46 | 21°45'11 | 12♒43 | 19°50 | 8°41 | 18°51 | 10°57 | 22° 8 | 15°41 | 22°16 | 6°24 | 23°57 | 22°17 | 14°19 | n.a. | S 18 |
| M19 | 23 38 42 | 22°44'53 | 25°37 | 21°32 | 9°42 | 18°37 | 11°10 | 22° 3 | 15°39 | 22°15 | 6°23 | 23°53 | 22°14 | 14°26 | n.a. | M19 |
| T 20 | 23 42 39 | 23°44'36 | 8♓20 | 23°14 | 10°43 | 18°21 | 11°23 | 21°58 | 15°37 | 22°13 | 6°22 | 23°46 | 22°11 | 14°33 | n.a. | T 20 |
| W21 | 23 46 35 | 24°44'22 | 20°52 | 24°55 | 11°44 | 18° 5 | 11°36 | 21°54 | 15°36 | 22°12 | 6°21 | 23°37 | 22° 8 | 14°39 | n.a. | W21 |
| T 22 | 23 50 32 | 25°44'09 | 3♈15 | 26°36 | 12°44 | 17°49 | 11°49 | 21°49 | 15°34 | 22°10 | 6°20 | 23°26 | 22° 4 | 14°46 | n.a. | T 22 |
| F 23 | 23 54 28 | 26°43'59 | 15°27 | 28°16 | 13°44 | 17°31 | 12° 2 | 21°44 | 15°32 | 22° 9 | 6°20 | 23°13 | 22° 1 | 14°53 | n.a. | F 23 |
| S 24 | 23 58 25 | 27°43'50 | 27°31 | 29°55 | 14°43 | 17°13 | 12°15 | 21°39 | 15°31 | 22° 7 | 6°19 | 23° 1 | 21°58 | 15° 0 | n.a. | S 24 |
| S 25 | 0 2 21 | 28°43'44 | 9♉28 | 1♎34 | 15°42 | 16°55 | 12°28 | 21°34 | 15°29 | 22° 6 | 6°18 | 22°51 | 21°55 | 15° 6 | n.a. | S 25 |
| M26 | 0 6 18 | 29°43'40 | 21°19 | 3°12 | 16°41 | 16°36 | 12°41 | 21°30 | 15°28 | 22° 4 | 6°17 | 22°42 | 21°52 | 15°13 | n.a. | M26 |
| T 27 | 0 10 14 | 0♎43'39 | 3♊ 9 | 4°50 | 17°39 | 16°16 | 12°54 | 21°25 | 15°26 | 22° 3 | 6°16 | 22°36 | 21°48 | 15°20 | n.a. | T 27 |
| W28 | 0 14 11 | 1°43'40 | 15° 1 | 6°27 | 18°36 | 15°57 | 13° 7 | 21°20 | 15°25 | 22° 1 | 6°15 | 22°32 | 21°45 | 15°26 | n.a. | W28 |
| T 29 | 0 18 8 | 2°43'43 | 27° 0 | 8° 3 | 19°34 | 15°36 | 13°20 | 21°15 | 15°23 | 22° 0 | 6°14 | 22°30 | 21°42 | 15°33 | n.a. | T 29 |
| F 30 | 0 22 4 | 3♎43'48 | 9♋11 | 9♎39 | 20♏31 | 15♈15 | 13♎33 | 21♓11 | 15♒22 | 21♈58 | 6♉13 | 22°D30 | 21♑39 | 15♉40 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 9n49 | 26n16 | 3n 2 | 16n34 | 1n44 | 9s59 | 1s59 | 5n 8 | 3s20 | 1s56 | 1n 8 | 5s10 | 2s47 | 16s53 | 0s47 | 7n 2 | 2s 0 | 1n43 | 12s51 | 21s26 | 21s41 | 20n21 | | n.a. |
| F 2 | 9 27 | 25 46 | 2 4 | 16 5 | 1 48 | 10 28 | 2 4 | 5 9 | 3 20 | 2 1 | 1 8 | 5 12 | 2 47 | 16 54 | 0 47 | 7 2 | 2 0 | 1 42 | 12 52 | 21 26 | 21 42 | 20 23 | | n.a. |
| S 3 | 9 5 | 23 58 | 0 59 | 15 34 | 1 51 | 10 57 | 2 9 | 5 9 | 3 19 | 2 6 | 1 7 | 5 14 | 2 47 | 16 54 | 0 47 | 7 1 | 2 0 | 1 42 | 12 52 | 21 25 | 21 43 | 20 25 | | n.a. |
| S 4 | 8 42 | 20 53 | 0s11 | 15 0 | 1 52 | 11 26 | 2 13 | 5 10 | 3 18 | 2 11 | 1 7 | 5 16 | 2 47 | 16 55 | 0 47 | 7 1 | 2 1 | 1 42 | 12 52 | 21 25 | 21 43 | 20 27 | | n.a. |
| M 5 | 8 20 | 16 39 | 1 21 | 14 25 | 1 54 | 11 55 | 2 18 | 5 9 | 3 17 | 2 16 | 1 7 | 5 18 | 2 47 | 16 56 | 0 47 | 7 0 | 2 1 | 1 41 | 12 52 | 21 25 | 21 44 | 20 29 | | n.a. |
| T 6 | 7 58 | 11 26 | 2 30 | 13 49 | 1 54 | 12 23 | 2 23 | 5 9 | 3 16 | 2 21 | 1 7 | 5 20 | 2 47 | 16 56 | 0 47 | 7 0 | 2 1 | 1 41 | 12 52 | 21 26 | 21 44 | 20 30 | | n.a. |
| W 7 | 7 35 | 5 30 | 3 31 | 13 11 | 1 54 | 12 51 | 2 27 | 5 8 | 3 15 | 2 26 | 1 7 | 5 22 | 2 47 | 16 57 | 0 47 | 6 59 | 2 1 | 1 40 | 12 53 | 21 27 | 21 45 | 20 32 | | n.a. |
| T 8 | 7 12 | 0s49 | 4 20 | 12 31 | 1 53 | 13 19 | 2 32 | 5 7 | 3 14 | 2 31 | 1 7 | 5 24 | 2 47 | 16 57 | 0 47 | 6 59 | 2 1 | 1 40 | 12 53 | 21 28 | 21 45 | 20 34 | | n.a. |
| F 9 | 6 49 | 7 10 | 4 52 | 11 51 | 1 51 | 13 46 | 2 36 | 5 6 | 3 13 | 2 36 | 1 7 | 5 25 | 2 47 | 16 58 | 0 47 | 6 58 | 2 1 | 1 40 | 12 53 | 21 30 | 21 46 | 20 36 | | n.a. |
| S 10 | 6 26 | 13 10 | 5 6 | 11 9 | 1 49 | 14 13 | 2 41 | 5 4 | 3 12 | 2 41 | 1 7 | 5 27 | 2 47 | 16 59 | 0 47 | 6 58 | 2 1 | 1 39 | 12 53 | 21 31 | 21 46 | 20 38 | | n.a. |
| S 11 | 6 3 | 18 25 | 5 0 | 10 27 | 1 46 | 14 40 | 2 45 | 5 3 | 3 10 | 2 46 | 1 6 | 5 29 | 2 48 | 16 59 | 0 47 | 6 57 | 2 1 | 1 39 | 12 53 | 21 32 | 21 47 | 20 39 | | n.a. |
| M12 | 5 40 | 22 31 | 4 34 | 9 43 | 1 43 | 15 7 | 2 50 | 5 0 | 3 9 | 2 52 | 1 6 | 5 31 | 2 48 | 17 0 | 0 47 | 6 57 | 2 1 | 1 39 | 12 53 | 21 33 | 21 47 | 20 41 | | n.a. |
| T 13 | 5 16 | 25 10 | 3 52 | 9 0 | 1 39 | 15 33 | 2 54 | 4 58 | 3 7 | 2 57 | 1 6 | 5 33 | 2 48 | 17 0 | 0 47 | 6 56 | 2 1 | 1 38 | 12 54 | 21 33 | 21 48 | 20 43 | | n.a. |
| W14 | 4 53 | 26 10 | 2 56 | 8 15 | 1 35 | 15 59 | 2 59 | 4 56 | 3 6 | 3 2 | 1 6 | 5 35 | 2 48 | 17 1 | 0 47 | 6 56 | 2 1 | 1 38 | 12 54 | 21 33 | 21 48 | 20 45 | | n.a. |
| T 15 | 4 29 | 25 32 | 1 51 | 7 30 | 1 31 | 16 24 | 3 3 | 4 53 | 3 4 | 3 7 | 1 6 | 5 37 | 2 48 | 17 2 | 0 46 | 6 55 | 2 1 | 1 37 | 12 54 | 21 33 | 21 49 | 20 46 | | n.a. |
| F 16 | 4 6 | 23 23 | 0 41 | 6 45 | 1 26 | 16 49 | 3 8 | 4 50 | 3 2 | 3 12 | 1 6 | 5 39 | 2 48 | 17 2 | 0 46 | 6 55 | 2 1 | 1 37 | 12 54 | 21 33 | 21 49 | 20 48 | | n.a. |
| S 17 | 3 42 | 19 58 | 0n30 | 6 0 | 1 22 | 17 14 | 3 12 | 4 46 | 3 1 | 3 17 | 1 6 | 5 41 | 2 48 | 17 3 | 0 46 | 6 54 | 2 1 | 1 37 | 12 54 | 21 33 | 21 50 | 20 50 | | n.a. |
| S 18 | 3 18 | 15 37 | 1 38 | 5 14 | 1 16 | 17 39 | 3 16 | 4 43 | 2 59 | 3 22 | 1 6 | 5 43 | 2 48 | 17 3 | 0 46 | 6 54 | 2 1 | 1 36 | 12 54 | 21 33 | 21 50 | 20 52 | | n.a. |
| M19 | 2 55 | 10 37 | 2 40 | 4 29 | 1 11 | 18 2 | 3 20 | 4 39 | 2 57 | 3 28 | 1 6 | 5 45 | 2 48 | 17 4 | 0 46 | 6 53 | 2 1 | 1 36 | 12 55 | 21 34 | 21 51 | 20 53 | | n.a. |
| T 20 | 2 31 | 5 14 | 3 33 | 3 43 | 1 5 | 18 26 | 3 24 | 4 35 | 2 55 | 3 33 | 1 6 | 5 47 | 2 48 | 17 4 | 0 46 | 6 52 | 2 1 | 1 35 | 12 55 | 21 35 | 21 52 | 20 55 | | n.a. |
| W21 | 2 7 | 0n15 | 4 15 | 2 57 | 1 0 | 18 49 | 3 28 | 4 31 | 2 53 | 3 38 | 1 5 | 5 49 | 2 48 | 17 5 | 0 46 | 6 52 | 2 1 | 1 35 | 12 55 | 21 37 | 21 52 | 20 57 | | n.a. |
| T 22 | 1 43 | 5 38 | 4 44 | 2 11 | 0 54 | 19 12 | 3 32 | 4 27 | 2 50 | 3 43 | 1 5 | 5 51 | 2 48 | 17 5 | 0 46 | 6 51 | 2 1 | 1 35 | 12 55 | 21 39 | 21 53 | 20 59 | | n.a. |
| F 23 | 1 19 | 10 45 | 5 0 | 1 25 | 0 48 | 19 34 | 3 36 | 4 22 | 2 48 | 3 48 | 1 5 | 5 53 | 2 48 | 17 6 | 0 46 | 6 51 | 2 1 | 1 34 | 12 55 | 21 41 | 21 53 | 21 0 | | n.a. |
| S 24 | 0 55 | 15 23 | 5 1 | 0 40 | 0 41 | 19 56 | 3 40 | 4 18 | 2 46 | 3 54 | 1 5 | 5 55 | 2 48 | 17 6 | 0 46 | 6 50 | 2 1 | 1 34 | 12 55 | 21 43 | 21 54 | 21 2 | | n.a. |
| S 25 | 0 31 | 19 23 | 4 50 | 0s 6 | 0 35 | 20 17 | 3 44 | 4 13 | 2 43 | 3 59 | 1 5 | 5 57 | 2 48 | 17 6 | 0 46 | 6 50 | 2 1 | 1 33 | 12 56 | 21 45 | 21 54 | 21 4 | | n.a. |
| M26 | 0 7 | 22 34 | 4 26 | 0 51 | 0 29 | 20 38 | 3 47 | 4 8 | 2 41 | 4 4 | 1 5 | 5 58 | 2 48 | 17 7 | 0 46 | 6 49 | 2 1 | 1 33 | 12 56 | 21 46 | 21 55 | 21 5 | | n.a. |
| T 27 | 0s18 | 24 47 | 3 51 | 1 36 | 0 22 | 20 58 | 3 51 | 4 3 | 2 38 | 4 9 | 1 5 | 6 0 | 2 48 | 17 7 | 0 46 | 6 48 | 2 1 | 1 33 | 12 56 | 21 47 | 21 55 | 21 7 | | n.a. |
| W28 | 0 42 | 25 55 | 3 5 | 2 21 | 0 16 | 21 18 | 3 54 | 3 57 | 2 35 | 4 14 | 1 5 | 6 2 | 2 48 | 17 8 | 0 46 | 6 48 | 2 1 | 1 32 | 12 56 | 21 48 | 21 56 | 21 9 | | n.a. |
| T 29 | 1 6 | 25 51 | 2 11 | 3 6 | 0 9 | 21 37 | 3 58 | 3 52 | 2 32 | 4 20 | 1 5 | 6 4 | 2 48 | 17 8 | 0 46 | 6 47 | 2 1 | 1 32 | 12 56 | 21 48 | 21 56 | 21 11 | | n.a. |
| F 30 | 1s30 | 24n33 | 1n10 | 3s50 | 0n 2 | 21s56 | 4s 1 | 3n47 | 2s30 | 4s25 | 1n 5 | 6s 6 | 2s48 | 17s 9 | 0s46 | 6n47 | 2s 1 | 1n31 | 12s56 | 21s48 | 21s57 | 21n12 | | n.a. |

Julian Day Number = 1686967.5, Delta T = 03h12m29s
Ecliptic obliquity = 23°42'27, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°22'03, Lahiri = - 5°15'02 Julian Calendar 1 Sept. 95 BCE == Greg. Calendar 30 Aug. 095 BCE

The year -94 astronomical counting style corresponds to year 095 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 95 BCE
# geocentric

## OCTOBER 95 BCE (-94) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 0 26 1 | 4♎43'55 | 21♋39 | 11♎15 | 21♏27 | 14°R54 | 13♎47 | 21°R 6 | 15°R21 | 21°R56 | 6°R12 | 22°R31 | 21♑36 | 15♉47 | n.a. | S 1 |
| S 2 | 0 29 57 | 5°44'05 | 4♌31 | 12°50 | 22°23 | 14♈33 | 14° 0 | 21♓ 2 | 15♒19 | 21♈55 | 6♉12 | 22♑30 | 21°33 | 15°53 | n.a. | S 2 |
| M 3 | 0 33 54 | 6°44'17 | 17°48 | 14°25 | 23°18 | 14°12 | 14°13 | 20°57 | 15°18 | 21°53 | 6°11 | 22°28 | 21°29 | 16° 0 | n.a. | M 3 |
| T 4 | 0 37 50 | 7°44'31 | 1♍35 | 15°59 | 24°13 | 13°50 | 14°26 | 20°52 | 15°17 | 21°52 | 6°10 | 22°23 | 21°26 | 16° 7 | n.a. | T 4 |
| W 5 | 0 41 47 | 8°44'46 | 15°50 | 17°32 | 25° 7 | 13°28 | 14°39 | 20°48 | 15°16 | 21°50 | 6° 9 | 22°15 | 21°23 | 16°13 | n.a. | W 5 |
| T 6 | 0 45 43 | 9°45'04 | 0♎30 | 19° 6 | 26° 0 | 13° 6 | 14°53 | 20°44 | 15°15 | 21°48 | 6° 8 | 22° 5 | 21°20 | 16°20 | n.a. | T 6 |
| F 7 | 0 49 40 | 10°45'24 | 15°29 | 20°39 | 26°53 | 12°45 | 15° 6 | 20°39 | 15°14 | 21°47 | 6° 7 | 21°54 | 21°17 | 16°27 | n.a. | F 7 |
| S 8 | 0 53 37 | 11°45'46 | 0♏35 | 22°11 | 27°46 | 12°23 | 15°19 | 20°35 | 15°13 | 21°45 | 6° 6 | 21°42 | 21°14 | 16°34 | n.a. | S 8 |
| S 9 | 0 57 33 | 12°46'09 | 15°40 | 23°43 | 28°37 | 12° 1 | 15°33 | 20°31 | 15°12 | 21°43 | 6° 5 | 21°32 | 21°10 | 16°40 | n.a. | S 9 |
| M10 | 1 1 30 | 13°46'34 | 0♐34 | 25°15 | 29°28 | 11°40 | 15°46 | 20°26 | 15°11 | 21°42 | 6° 4 | 21°24 | 21° 7 | 16°47 | n.a. | M10 |
| T 11 | 1 5 26 | 14°47'01 | 15° 8 | 26°46 | 0♐18 | 11°18 | 15°59 | 20°22 | 15°10 | 21°40 | 6° 2 | 21°19 | 21° 4 | 16°54 | n.a. | T 11 |
| W12 | 1 9 23 | 15°47'29 | 29°21 | 28°17 | 1° 8 | 10°57 | 16°12 | 20°18 | 15° 9 | 21°38 | 6° 1 | 21°17 | 21° 1 | 17° 0 | n.a. | W12 |
| T 13 | 1 13 19 | 16°47'59 | 13♑10 | 29°48 | 1°57 | 10°37 | 16°26 | 20°14 | 15° 8 | 21°37 | 6° 0 | 21°16 | 20°58 | 17° 7 | n.a. | T 13 |
| F 14 | 1 17 16 | 17°48'30 | 26°37 | 1♏18 | 2°44 | 10°17 | 16°39 | 20°10 | 15° 7 | 21°35 | 5°59 | 21°16 | 20°54 | 17°14 | n.a. | F 14 |
| S 15 | 1 21 12 | 18°49'02 | 9♒45 | 2°48 | 3°31 | 9°57 | 16°52 | 20° 6 | 15° 7 | 21°33 | 5°58 | 21°15 | 20°51 | 17°21 | n.a. | S 15 |
| S 16 | 1 25 9 | 19°49'36 | 22°36 | 4°18 | 4°17 | 9°37 | 17° 6 | 20° 2 | 15° 6 | 21°31 | 5°57 | 21°12 | 20°48 | 17°27 | n.a. | S 16 |
| M17 | 1 29 6 | 20°50'11 | 5♓13 | 5°47 | 5° 2 | 9°18 | 17°19 | 19°58 | 15° 6 | 21°30 | 5°56 | 21° 7 | 20°45 | 17°34 | n.a. | M17 |
| T 18 | 1 33 2 | 21°50'47 | 17°40 | 7°15 | 5°46 | 9° 0 | 17°32 | 19°55 | 15° 5 | 21°28 | 5°55 | 20°58 | 20°42 | 17°41 | n.a. | T 18 |
| W19 | 1 36 59 | 22°51'25 | 29°57 | 8°44 | 6°30 | 8°42 | 17°46 | 19°51 | 15° 5 | 21°26 | 5°54 | 20°47 | 20°39 | 17°47 | n.a. | W19 |
| T 20 | 1 40 55 | 23°52'04 | 12♈ 7 | 10°11 | 7°12 | 8°25 | 17°59 | 19°48 | 15° 4 | 21°25 | 5°53 | 20°33 | 20°35 | 17°54 | n.a. | T 20 |
| F 21 | 1 44 52 | 24°52'45 | 24°10 | 11°39 | 7°52 | 8° 8 | 18°12 | 19°44 | 15° 4 | 21°23 | 5°52 | 20°18 | 20°32 | 18° 1 | n.a. | F 21 |
| S 22 | 1 48 48 | 25°53'27 | 6♉ 7 | 13° 5 | 8°32 | 7°52 | 18°25 | 19°41 | 15° 3 | 21°21 | 5°50 | 20° 4 | 20°29 | 18° 7 | n.a. | S 22 |
| S 23 | 1 52 45 | 26°54'10 | 18° 1 | 14°31 | 9°11 | 7°37 | 18°39 | 19°37 | 15° 3 | 21°20 | 5°49 | 19°50 | 20°26 | 18°14 | n.a. | S 23 |
| M24 | 1 56 41 | 27°54'56 | 29°51 | 15°56 | 9°48 | 7°22 | 18°52 | 19°34 | 15° 3 | 21°18 | 5°48 | 19°39 | 20°23 | 18°21 | n.a. | M24 |
| T 25 | 2 0 38 | 28°55'43 | 11♊40 | 17°21 | 10°24 | 7° 8 | 19° 5 | 19°31 | 15° 3 | 21°16 | 5°47 | 19°31 | 20°20 | 18°28 | n.a. | T 25 |
| W26 | 2 4 35 | 29°56'31 | 23°32 | 18°45 | 10°59 | 6°55 | 19°18 | 19°28 | 15° 3 | 21°14 | 5°46 | 19°25 | 20°16 | 18°34 | n.a. | W26 |
| T 27 | 2 8 31 | 0♏57'21 | 5♋30 | 20° 7 | 11°32 | 6°42 | 19°32 | 19°25 | 15° 2 | 21°13 | 5°45 | 19°23 | 20°13 | 18°41 | n.a. | T 27 |
| F 28 | 2 12 28 | 1°58'13 | 17°39 | 21°29 | 12° 4 | 6°31 | 19°45 | 19°22 | 15°D 2 | 21°11 | 5°44 | 19°D22 | 20°10 | 18°48 | n.a. | F 28 |
| S 29 | 2 16 24 | 2°59'06 | 0♌ 3 | 22°49 | 12°34 | 6°20 | 19°58 | 19°19 | 15° 2 | 21° 9 | 5°43 | 19°R22 | 20° 7 | 18°54 | n.a. | S 29 |
| S 30 | 2 20 21 | 4° 0'00 | 12°48 | 24° 7 | 13° 3 | 6°10 | 20°11 | 19°16 | 15° 2 | 21° 8 | 5°41 | 19°22 | 20° 4 | 19° 1 | n.a. | S 30 |
| M31 | 2 24 17 | 5♏ 0'57 | 25♌59 | 25♏24 | 13♐30 | 6♈ 0 | 20♎24 | 19♓14 | 15♒ 3 | 21♈ 6 | 5♉40 | 19♑20 | 20♑ 0 | 19♉ 8 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 1s54 | 22n 1 | 0n 5 | 4s34 | 0s 4 | 22s15 | 4s 4 | 3n41 | 2s27 | 4s30 | 1n 5 | 6s 8 | 2s48 | 17s 9 | 0s46 | 6n46 | 2s 1 | 1n31 | 12s56 | 21s48 | 21s57 | 21n14 | | n.a. |
| S 2 | 2 18 | 18 20 | 1s 3 | 5 17 | 0 11 | 22 32 | 4 7 | 3 36 | 2 24 | 4 35 | 1 5 | 6 9 | 2 47 | 17 9 | 0 46 | 6 45 | 2 1 | 1 31 | 12 56 | 21 48 | 21 58 | 21 16 | | n.a. |
| M 3 | 2 42 | 13 37 | 2 10 | 6 1 | 0 18 | 22 50 | 4 10 | 3 30 | 2 21 | 4 41 | 1 5 | 6 11 | 2 47 | 17 10 | 0 46 | 6 45 | 2 1 | 1 30 | 12 56 | 21 49 | 21 58 | 21 17 | | n.a. |
| T 4 | 3 6 | 8 3 | 3 11 | 6 44 | 0 24 | 23 6 | 4 12 | 3 24 | 2 18 | 4 46 | 1 5 | 6 13 | 2 47 | 17 10 | 0 46 | 6 44 | 2 2 | 1 30 | 12 57 | 21 50 | 21 59 | 21 19 | | n.a. |
| W 5 | 3 30 | 1 55 | 4 3 | 7 26 | 0 31 | 23 23 | 4 15 | 3 19 | 2 14 | 4 51 | 1 4 | 6 15 | 2 47 | 17 10 | 0 46 | 6 43 | 2 2 | 1 29 | 12 57 | 21 51 | 21 59 | 21 20 | | n.a. |
| T 6 | 3 54 | 4s28 | 4 40 | 8 8 | 0 37 | 23 38 | 4 18 | 3 13 | 2 11 | 4 56 | 1 4 | 6 16 | 2 47 | 17 11 | 0 46 | 6 43 | 2 2 | 1 29 | 12 57 | 21 52 | 22 0 | 21 22 | | n.a. |
| F 7 | 4 18 | 10 44 | 4 59 | 8 50 | 0 44 | 23 53 | 4 20 | 3 8 | 2 8 | 5 1 | 1 4 | 6 18 | 2 47 | 17 11 | 0 46 | 6 42 | 2 2 | 1 29 | 12 57 | 21 54 | 22 0 | 21 24 | | n.a. |
| S 8 | 4 42 | 16 26 | 4 57 | 9 31 | 0 50 | 24 8 | 4 22 | 3 2 | 2 5 | 5 7 | 1 4 | 6 20 | 2 47 | 17 11 | 0 46 | 6 41 | 2 2 | 1 28 | 12 57 | 21 56 | 22 1 | 21 25 | | n.a. |
| S 9 | 5 6 | 21 5 | 4 35 | 10 11 | 0 57 | 24 22 | 4 24 | 2 57 | 2 1 | 5 12 | 1 4 | 6 21 | 2 47 | 17 11 | 0 46 | 6 41 | 2 2 | 1 28 | 12 57 | 21 58 | 22 1 | 21 27 | | n.a. |
| M10 | 5 30 | 24 18 | 3 54 | 10 51 | 1 3 | 24 35 | 4 26 | 2 51 | 1 58 | 5 17 | 1 4 | 6 23 | 2 47 | 17 12 | 0 46 | 6 40 | 2 2 | 1 27 | 12 57 | 21 59 | 22 2 | 21 29 | | n.a. |
| T 11 | 5 53 | 25 49 | 2 58 | 11 31 | 1 9 | 24 48 | 4 28 | 2 46 | 1 54 | 5 22 | 1 4 | 6 24 | 2 47 | 17 12 | 0 46 | 6 40 | 2 2 | 1 27 | 12 57 | 22 0 | 22 2 | 21 30 | | n.a. |
| W12 | 6 17 | 25 35 | 1 53 | 12 9 | 1 15 | 25 0 | 4 29 | 2 41 | 1 51 | 5 28 | 1 4 | 6 26 | 2 47 | 17 12 | 0 46 | 6 39 | 2 2 | 1 27 | 12 57 | 22 0 | 22 3 | 21 32 | | n.a. |
| T 13 | 6 40 | 23 45 | 0 43 | 12 48 | 1 21 | 25 12 | 4 31 | 2 36 | 1 47 | 5 33 | 1 4 | 6 27 | 2 46 | 17 12 | 0 46 | 6 38 | 2 2 | 1 26 | 12 57 | 22 0 | 22 3 | 21 33 | | n.a. |
| F 14 | 7 4 | 20 36 | 0n28 | 13 25 | 1 27 | 25 23 | 4 32 | 2 31 | 1 44 | 5 38 | 1 4 | 6 29 | 2 46 | 17 12 | 0 46 | 6 38 | 2 2 | 1 26 | 12 57 | 22 0 | 22 4 | 21 35 | | n.a. |
| S 15 | 7 27 | 16 28 | 1 36 | 14 2 | 1 33 | 25 33 | 4 33 | 2 27 | 1 40 | 5 43 | 1 4 | 6 30 | 2 46 | 17 13 | 0 46 | 6 37 | 2 2 | 1 25 | 12 57 | 22 0 | 22 4 | 21 37 | | n.a. |
| S 16 | 7 50 | 11 40 | 2 37 | 14 38 | 1 38 | 25 43 | 4 33 | 2 22 | 1 37 | 5 48 | 1 4 | 6 32 | 2 46 | 17 13 | 0 46 | 6 36 | 2 2 | 1 25 | 12 57 | 22 1 | 22 5 | 21 38 | | n.a. |
| M17 | 8 13 | 6 27 | 3 30 | 15 13 | 1 44 | 25 52 | 4 34 | 2 18 | 1 33 | 5 53 | 1 4 | 6 33 | 2 46 | 17 13 | 0 46 | 6 36 | 2 2 | 1 25 | 12 57 | 22 2 | 22 5 | 21 40 | | n.a. |
| T 18 | 8 36 | 1 5 | 4 11 | 15 48 | 1 49 | 26 0 | 4 34 | 2 14 | 1 30 | 5 59 | 1 4 | 6 34 | 2 46 | 17 13 | 0 46 | 6 35 | 2 2 | 1 24 | 12 58 | 22 3 | 22 6 | 21 41 | | n.a. |
| W19 | 8 59 | 4n15 | 4 40 | 16 22 | 1 54 | 26 8 | 4 34 | 2 10 | 1 26 | 6 4 | 1 4 | 6 36 | 2 46 | 17 13 | 0 46 | 6 34 | 2 2 | 1 24 | 12 58 | 22 5 | 22 6 | 21 43 | | n.a. |
| T 20 | 9 22 | 9 22 | 4 56 | 16 54 | 1 58 | 26 15 | 4 34 | 2 6 | 1 23 | 6 9 | 1 4 | 6 37 | 2 45 | 17 13 | 0 45 | 6 34 | 2 2 | 1 24 | 12 58 | 22 7 | 22 7 | 21 44 | | n.a. |
| F 21 | 9 44 | 14 5 | 4 59 | 17 26 | 2 3 | 26 22 | 4 34 | 2 3 | 1 19 | 6 14 | 1 4 | 6 38 | 2 45 | 17 13 | 0 45 | 6 33 | 2 2 | 1 23 | 12 58 | 22 9 | 22 7 | 21 46 | | n.a. |
| S 22 | 10 7 | 18 14 | 4 48 | 17 57 | 2 7 | 26 28 | 4 33 | 2 0 | 1 16 | 6 19 | 1 4 | 6 39 | 2 45 | 17 13 | 0 45 | 6 33 | 2 2 | 1 23 | 12 58 | 22 11 | 22 8 | 21 48 | | n.a. |
| S 23 | 10 29 | 21 37 | 4 25 | 18 27 | 2 11 | 26 33 | 4 32 | 1 57 | 1 12 | 6 24 | 1 4 | 6 40 | 2 45 | 17 13 | 0 45 | 6 32 | 2 2 | 1 22 | 12 58 | 22 13 | 22 8 | 21 49 | | n.a. |
| M24 | 10 51 | 24 5 | 3 50 | 18 56 | 2 14 | 26 38 | 4 31 | 1 54 | 1 9 | 6 29 | 1 4 | 6 42 | 2 45 | 17 13 | 0 45 | 6 31 | 2 2 | 1 22 | 12 58 | 22 15 | 22 9 | 21 51 | | n.a. |
| T 25 | 11 13 | 25 30 | 3 5 | 19 24 | 2 18 | 26 42 | 4 30 | 1 52 | 1 6 | 6 34 | 1 4 | 6 43 | 2 44 | 17 14 | 0 45 | 6 31 | 2 2 | 1 22 | 12 58 | 22 16 | 22 9 | 21 52 | | n.a. |
| W26 | 11 35 | 25 45 | 2 12 | 19 50 | 2 20 | 26 45 | 4 28 | 1 49 | 1 2 | 6 39 | 1 4 | 6 44 | 2 44 | 17 14 | 0 45 | 6 30 | 2 2 | 1 21 | 12 58 | 22 17 | 22 9 | 21 54 | | n.a. |
| T 27 | 11 56 | 24 48 | 1 13 | 20 16 | 2 23 | 26 48 | 4 26 | 1 47 | 0 59 | 6 45 | 1 4 | 6 45 | 2 44 | 17 14 | 0 45 | 6 29 | 2 2 | 1 21 | 12 58 | 22 17 | 22 10 | 21 55 | | n.a. |
| F 28 | 12 17 | 22 41 | 0 9 | 20 40 | 2 25 | 26 50 | 4 23 | 1 46 | 0 56 | 6 50 | 1 4 | 6 46 | 2 44 | 17 13 | 0 45 | 6 29 | 2 2 | 1 21 | 12 58 | 22 17 | 22 10 | 21 57 | | n.a. |
| S 29 | 12 39 | 19 27 | 0s56 | 21 2 | 2 26 | 26 52 | 4 21 | 1 44 | 0 52 | 6 55 | 1 4 | 6 47 | 2 44 | 17 13 | 0 45 | 6 28 | 2 2 | 1 20 | 12 58 | 22 17 | 22 11 | 21 58 | | n.a. |
| S 30 | 13 0 | 15 14 | 2 1 | 21 23 | 2 27 | 26 52 | 4 18 | 1 43 | 0 49 | 7 0 | 1 4 | 6 48 | 2 43 | 17 13 | 0 45 | 6 28 | 2 1 | 1 20 | 12 58 | 22 18 | 22 11 | 22 0 | | n.a. |
| M31 | 13s20 | 10n10 | 3s 1 | 21s43 | 2s28 | 26s53 | 4s14 | 1n43 | 0s46 | 7s 5 | 1n 4 | 6s48 | 2s43 | 17s13 | 0s45 | 6n27 | 2s 1 | 1n20 | 12s58 | 22s18 | 22s12 | 22n 1 | | n.a. |

Julian Day Number = 1686997.5, Delta T = 03h12m29s
Ecliptic obliquity = 23°42'27, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°21'59, Lahiri = - 5°14'58 Julian Calendar 1 Oct. 95 BCE == Greg. Calendar 29 Sept. 095 BCE

The year -94 astronomical counting style corresponds to year 095 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 95 BCE
# geocentric

## NOVEMBER 95 BCE (-94) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 2 28 14 | 6♏ 1'54 | 9♍39 | 26♏39 | 13♐55 | 5°R52 | 20♎37 | 19°R11 | 15♒ 3 | 21°R 5 | 5°R39 | 19°R16 | 19♑57 | 19♉15 | n.a. | T 1 |
| W 2 | 2 32 10 | 7° 2'53 | 23°49 | 27°52 | 14°18 | 5♈44 | 20°50 | 19♓ 9 | 15° 3 | 21♈ 3 | 5♉38 | 19♑ 9 | 19°54 | 19°21 | n.a. | W 2 |
| T 3 | 2 36 7 | 8° 3'53 | 8♎28 | 29° 2 | 14°40 | 5°37 | 21° 3 | 19° 6 | 15° 3 | 21° 1 | 5°37 | 19° 0 | 19°51 | 19°28 | n.a. | T 3 |
| F 4 | 2 40 4 | 9° 4'55 | 23°31 | 0♐ 9 | 15° 0 | 5°31 | 21°16 | 19° 4 | 15° 4 | 21° 0 | 5°36 | 18°50 | 19°48 | 19°35 | n.a. | F 4 |
| S 5 | 2 44 0 | 10° 5'57 | 8♏48 | 1°13 | 15°18 | 5°26 | 21°29 | 19° 2 | 15° 4 | 20°58 | 5°35 | 18°39 | 19°45 | 19°41 | n.a. | S 5 |
| S 6 | 2 47 57 | 11° 7'01 | 24° 7 | 2°13 | 15°34 | 5°22 | 21°42 | 19° 0 | 15° 4 | 20°57 | 5°33 | 18°29 | 19°41 | 19°48 | n.a. | S 6 |
| M 7 | 2 51 53 | 12° 8'06 | 9♐19 | 3° 8 | 15°48 | 5°18 | 21°55 | 18°58 | 15° 5 | 20°55 | 5°32 | 18°22 | 19°38 | 19°55 | n.a. | M 7 |
| T 8 | 2 55 50 | 13° 9'12 | 24°12 | 3°58 | 15°59 | 5°15 | 22° 8 | 18°56 | 15° 5 | 20°53 | 5°31 | 18°17 | 19°35 | 20° 1 | n.a. | T 8 |
| W 9 | 2 59 46 | 14°10'18 | 8♑41 | 4°42 | 16° 9 | 5°14 | 22°21 | 18°55 | 15° 6 | 20°52 | 5°30 | 18°14 | 19°32 | 20° 8 | n.a. | W 9 |
| T 10 | 3 3 43 | 15°11'25 | 22°42 | 5°20 | 16°16 | 5°12 | 22°34 | 18°53 | 15° 7 | 20°50 | 5°29 | 18°D14 | 19°29 | 20°15 | n.a. | T 10 |
| F 11 | 3 7 39 | 16°12'32 | 6♒16 | 5°50 | 16°21 | 5°D12 | 22°47 | 18°51 | 15° 7 | 20°49 | 5°28 | 18°15 | 19°26 | 20°22 | n.a. | F 11 |
| S 12 | 3 11 36 | 17°13'40 | 19°25 | 6°11 | 16°R23 | 5°13 | 22°59 | 18°50 | 15° 8 | 20°47 | 5°27 | 18°R15 | 19°22 | 20°28 | n.a. | S 12 |
| S 13 | 3 15 33 | 18°14'48 | 2♓13 | 6°24 | 16°23 | 5°14 | 23°12 | 18°49 | 15° 9 | 20°46 | 5°26 | 18°14 | 19°19 | 20°35 | n.a. | S 13 |
| M14 | 3 19 29 | 19°15'57 | 14°44 | 6°R26 | 16°20 | 5°16 | 23°25 | 18°48 | 15°10 | 20°44 | 5°24 | 18°11 | 19°16 | 20°42 | n.a. | M14 |
| T 15 | 3 23 26 | 20°17'06 | 27° 1 | 6°18 | 16°15 | 5°19 | 23°37 | 18°47 | 15°11 | 20°43 | 5°23 | 18° 5 | 19°13 | 20°48 | n.a. | T 15 |
| W16 | 3 27 22 | 21°18'15 | 9♈ 8 | 5°58 | 16° 8 | 5°23 | 23°50 | 18°46 | 15°12 | 20°42 | 5°22 | 17°57 | 19°10 | 20°55 | n.a. | W16 |
| T 17 | 3 31 19 | 22°19'25 | 21° 9 | 5°27 | 15°58 | 5°27 | 24° 3 | 18°45 | 15°13 | 20°40 | 5°21 | 17°46 | 19° 6 | 21° 2 | n.a. | T 17 |
| F 18 | 3 35 15 | 23°20'36 | 3♉ 4 | 4°44 | 15°45 | 5°32 | 24°15 | 18°44 | 15°14 | 20°39 | 5°20 | 17°35 | 19° 3 | 21° 9 | n.a. | F 18 |
| S 19 | 3 39 12 | 24°21'47 | 14°57 | 3°51 | 15°30 | 5°38 | 24°27 | 18°43 | 15°15 | 20°37 | 5°19 | 17°24 | 19° 0 | 21°15 | n.a. | S 19 |
| S 20 | 3 43 8 | 25°22'58 | 26°48 | 2°47 | 15°12 | 5°44 | 24°40 | 18°43 | 15°16 | 20°36 | 5°18 | 17°14 | 18°57 | 21°22 | n.a. | S 20 |
| M21 | 3 47 5 | 26°24'10 | 8♊40 | 1°35 | 14°53 | 5°52 | 24°52 | 18°42 | 15°17 | 20°35 | 5°17 | 17° 6 | 18°54 | 21°29 | n.a. | M21 |
| T 22 | 3 51 2 | 27°25'22 | 20°33 | 0°17 | 14°30 | 6° 0 | 25° 4 | 18°42 | 15°18 | 20°34 | 5°16 | 17° 0 | 18°51 | 21°35 | n.a. | T 22 |
| W23 | 3 54 58 | 28°26'35 | 2♋30 | 28♏55 | 14° 6 | 6° 8 | 25°17 | 18°42 | 15°20 | 20°32 | 5°15 | 16°56 | 18°47 | 21°42 | n.a. | W23 |
| T 24 | 3 58 55 | 29°27'48 | 14°33 | 27°33 | 13°40 | 6°17 | 25°29 | 18°D42 | 15°21 | 20°31 | 5°14 | 16°D55 | 18°44 | 21°49 | n.a. | T 24 |
| F 25 | 4 2 51 | 0♐29'02 | 26°46 | 26°12 | 13°11 | 6°27 | 25°41 | 18°42 | 15°22 | 20°30 | 5°13 | 16°55 | 18°41 | 21°55 | n.a. | F 25 |
| S 26 | 4 6 48 | 1°30'16 | 9♌12 | 24°56 | 12°41 | 6°38 | 25°53 | 18°42 | 15°24 | 20°29 | 5°12 | 16°57 | 18°38 | 22° 2 | n.a. | S 26 |
| S 27 | 4 10 44 | 2°31'31 | 21°56 | 23°47 | 12°10 | 6°49 | 26° 5 | 18°42 | 15°25 | 20°27 | 5°11 | 16°58 | 18°35 | 22° 9 | n.a. | S 27 |
| M28 | 4 14 41 | 3°32'46 | 5♍ 1 | 22°46 | 11°36 | 7° 0 | 26°17 | 18°43 | 15°27 | 20°26 | 5°10 | 16°R58 | 18°31 | 22°16 | n.a. | M28 |
| T 29 | 4 18 38 | 4°34'02 | 18°31 | 21°54 | 11° 2 | 7°13 | 26°29 | 18°43 | 15°28 | 20°25 | 5° 9 | 16°57 | 18°28 | 22°22 | n.a. | T 29 |
| W30 | 4 22 34 | 5♐35'18 | 2♎28 | 21♏13 | 10♐27 | 7♈25 | 26♎41 | 18♓44 | 15♒30 | 20♈24 | 5♉ 8 | 16♑55 | 18♑25 | 22♉29 | n.a. | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 13s41 | 4n26 | 3s53 | 22s 1 | 2s28 | 26s52 | 4s10 | 1n42 | 0s43 | 7s10 | 1n 4 | 6s49 | 2s43 | 17s13 | 0s45 | 6n26 | 2s 1 | 1n19 | 12s58 | 22s18 | 22s12 | 22n 3 | | n.a. |
| W 2 | 14 1 | 1s42 | 4 33 | 22 17 | 2 27 | 26 51 | 4 6 | 1 42 | 0 40 | 7 15 | 1 4 | 6 50 | 2 43 | 17 13 | 0 45 | 6 26 | 2 1 | 1 19 | 12 57 | 22 19 | 22 13 | 22 4 | | n.a. |
| T 3 | 14 21 | 7 56 | 4 57 | 22 32 | 2 25 | 26 49 | 4 1 | 1 42 | 0 37 | 7 19 | 1 4 | 6 51 | 2 43 | 17 13 | 0 45 | 6 25 | 2 1 | 1 19 | 12 57 | 22 21 | 22 13 | 22 6 | | n.a. |
| F 4 | 14 41 | 13 53 | 5 1 | 22 44 | 2 23 | 26 46 | 3 56 | 1 42 | 0 34 | 7 24 | 1 4 | 6 51 | 2 42 | 17 13 | 0 45 | 6 25 | 2 1 | 1 18 | 12 57 | 22 22 | 22 14 | 22 7 | | n.a. |
| S 5 | 15 1 | 19 4 | 4 44 | 22 55 | 2 20 | 26 43 | 3 51 | 1 43 | 0 31 | 7 29 | 1 4 | 6 52 | 2 42 | 17 13 | 0 45 | 6 24 | 2 1 | 1 18 | 12 57 | 22 24 | 22 14 | 22 8 | | n.a. |
| S 6 | 15 20 | 22 59 | 4 6 | 23 3 | 2 16 | 26 39 | 3 45 | 1 44 | 0 28 | 7 34 | 1 4 | 6 53 | 2 42 | 17 13 | 0 45 | 6 23 | 2 1 | 1 18 | 12 57 | 22 25 | 22 15 | 22 10 | | n.a. |
| M 7 | 15 39 | 25 15 | 3 11 | 23 10 | 2 11 | 26 34 | 3 39 | 1 45 | 0 25 | 7 39 | 1 4 | 6 53 | 2 42 | 17 12 | 0 45 | 6 23 | 2 1 | 1 17 | 12 57 | 22 26 | 22 15 | 22 11 | | n.a. |
| T 8 | 15 58 | 25 39 | 2 4 | 23 13 | 2 5 | 26 28 | 3 32 | 1 46 | 0 22 | 7 44 | 1 4 | 6 54 | 2 41 | 17 12 | 0 45 | 6 22 | 2 1 | 1 17 | 12 57 | 22 27 | 22 16 | 22 13 | | n.a. |
| W 9 | 16 16 | 24 16 | 0 51 | 23 15 | 1 58 | 26 22 | 3 25 | 1 48 | 0 19 | 7 49 | 1 4 | 6 54 | 2 41 | 17 12 | 0 45 | 6 22 | 2 1 | 1 17 | 12 57 | 22 27 | 22 16 | 22 14 | | n.a. |
| T 10 | 16 34 | 21 23 | 0n24 | 23 13 | 1 49 | 26 15 | 3 17 | 1 50 | 0 17 | 7 53 | 1 4 | 6 55 | 2 41 | 17 12 | 0 45 | 6 21 | 2 1 | 1 16 | 12 57 | 22 27 | 22 17 | 22 16 | | n.a. |
| F 11 | 16 52 | 17 23 | 1 35 | 23 9 | 1 40 | 26 8 | 3 9 | 1 52 | 0 14 | 7 58 | 1 4 | 6 55 | 2 41 | 17 12 | 0 45 | 6 21 | 2 1 | 1 16 | 12 57 | 22 27 | 22 17 | 22 17 | | n.a. |
| S 12 | 17 10 | 12 39 | 2 38 | 23 2 | 1 28 | 25 59 | 3 0 | 1 55 | 0 12 | 8 3 | 1 4 | 6 55 | 2 40 | 17 11 | 0 45 | 6 20 | 2 1 | 1 16 | 12 57 | 22 27 | 22 17 | 22 18 | | n.a. |
| S 13 | 17 27 | 7 30 | 3 32 | 22 52 | 1 16 | 25 50 | 2 51 | 1 58 | 0 9 | 8 8 | 1 4 | 6 56 | 2 40 | 17 11 | 0 45 | 6 20 | 2 1 | 1 16 | 12 57 | 22 27 | 22 18 | 22 20 | | n.a. |
| M14 | 17 44 | 2 10 | 4 15 | 22 38 | 1 2 | 25 40 | 2 41 | 2 1 | 0 7 | 8 12 | 1 4 | 6 56 | 2 40 | 17 11 | 0 45 | 6 19 | 2 1 | 1 15 | 12 57 | 22 27 | 22 18 | 22 21 | | n.a. |
| T 15 | 18 1 | 3n 9 | 4 45 | 22 22 | 0 46 | 25 29 | 2 31 | 2 4 | 0 4 | 8 17 | 1 4 | 6 56 | 2 40 | 17 10 | 0 45 | 6 19 | 2 1 | 1 15 | 12 57 | 22 28 | 22 19 | 22 23 | | n.a. |
| W16 | 18 17 | 8 16 | 5 1 | 22 2 | 0 30 | 25 18 | 2 20 | 2 8 | 0 2 | 8 22 | 1 4 | 6 56 | 2 39 | 17 10 | 0 45 | 6 18 | 2 1 | 1 15 | 12 56 | 22 29 | 22 19 | 22 24 | | n.a. |
| T 17 | 18 33 | 13 1 | 5 4 | 21 38 | 0 11 | 25 5 | 2 9 | 2 12 | 0n 1 | 8 26 | 1 4 | 6 56 | 2 39 | 17 10 | 0 44 | 6 18 | 2 1 | 1 15 | 12 56 | 22 31 | 22 20 | 22 25 | | n.a. |
| F 18 | 18 49 | 17 16 | 4 54 | 21 12 | 0n 8 | 24 52 | 1 57 | 2 16 | 0 3 | 8 31 | 1 4 | 6 56 | 2 39 | 17 9 | 0 44 | 6 17 | 2 1 | 1 14 | 12 56 | 22 32 | 22 20 | 22 27 | | n.a. |
| S 19 | 19 4 | 20 48 | 4 31 | 20 42 | 0 28 | 24 38 | 1 44 | 2 20 | 0 5 | 8 36 | 1 4 | 6 56 | 2 39 | 17 9 | 0 44 | 6 17 | 2 1 | 1 14 | 12 56 | 22 34 | 22 21 | 22 28 | | n.a. |
| S 20 | 19 19 | 23 29 | 3 56 | 20 10 | 0 48 | 24 24 | 1 32 | 2 25 | 0 7 | 8 40 | 1 4 | 6 56 | 2 38 | 17 9 | 0 44 | 6 16 | 2 1 | 1 14 | 12 56 | 22 35 | 22 21 | 22 30 | | n.a. |
| M21 | 19 34 | 25 8 | 3 11 | 19 36 | 1 8 | 24 8 | 1 18 | 2 30 | 0 9 | 8 45 | 1 4 | 6 56 | 2 38 | 17 8 | 0 44 | 6 16 | 2 1 | 1 14 | 12 56 | 22 36 | 22 21 | 22 31 | | n.a. |
| T 22 | 19 48 | 25 39 | 2 17 | 19 0 | 1 28 | 23 52 | 1 5 | 2 35 | 0 11 | 8 49 | 1 4 | 6 56 | 2 38 | 17 8 | 0 44 | 6 15 | 2 1 | 1 14 | 12 56 | 22 37 | 22 22 | 22 32 | | n.a. |
| W23 | 20 2 | 24 58 | 1 17 | 18 24 | 1 47 | 23 35 | 0 51 | 2 40 | 0 13 | 8 54 | 1 4 | 6 56 | 2 38 | 17 7 | 0 44 | 6 15 | 2 1 | 1 13 | 12 56 | 22 37 | 22 22 | 22 34 | | n.a. |
| T 24 | 20 16 | 23 7 | 0 13 | 17 49 | 2 4 | 23 18 | 0 36 | 2 46 | 0 15 | 8 58 | 1 4 | 6 56 | 2 37 | 17 7 | 0 44 | 6 14 | 2 1 | 1 13 | 12 55 | 22 37 | 22 23 | 22 35 | | n.a. |
| F 25 | 20 29 | 20 10 | 0s53 | 17 16 | 2 19 | 22 59 | 0 21 | 2 51 | 0 17 | 9 2 | 1 4 | 6 55 | 2 37 | 17 7 | 0 44 | 6 14 | 2 1 | 1 13 | 12 55 | 22 37 | 22 23 | 22 36 | | n.a. |
| S 26 | 20 42 | 16 16 | 1 58 | 16 45 | 2 33 | 22 41 | 0 6 | 2 57 | 0 19 | 9 7 | 1 4 | 6 55 | 2 37 | 17 6 | 0 44 | 6 14 | 2 1 | 1 13 | 12 55 | 22 37 | 22 24 | 22 38 | | n.a. |
| S 27 | 20 54 | 11 33 | 2 58 | 16 17 | 2 44 | 22 21 | 0n 9 | 3 3 | 0 21 | 9 11 | 1 4 | 6 55 | 2 37 | 17 6 | 0 44 | 6 13 | 2 1 | 1 13 | 12 55 | 22 37 | 22 24 | 22 39 | | n.a. |
| M28 | 21 6 | 6 12 | 3 51 | 15 54 | 2 52 | 22 2 | 0 24 | 3 10 | 0 23 | 9 15 | 1 4 | 6 54 | 2 36 | 17 5 | 0 44 | 6 13 | 2 0 | 1 12 | 12 55 | 22 37 | 22 25 | 22 40 | | n.a. |
| T 29 | 21 17 | 0 25 | 4 33 | 15 34 | 2 58 | 21 41 | 0 40 | 3 16 | 0 25 | 9 20 | 1 4 | 6 54 | 2 36 | 17 5 | 0 44 | 6 12 | 2 0 | 1 12 | 12 55 | 22 37 | 22 25 | 22 42 | | n.a. |
| W30 | 21s29 | 5s35 | 5s 0 | 15s20 | 3n 2 | 21s21 | 0n56 | 3n23 | 0n26 | 9s24 | 1n 4 | 6s53 | 2s36 | 17s 4 | 0s44 | 6n12 | 2s 0 | 1n12 | 12s54 | 22s37 | 22s25 | 22n43 | | n.a. |

Julian Day Number = 1687028.5, Delta T = 03h12m28s
Ecliptic obliquity = 23°42'27, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°21'55, Lahiri = - 5°14'54 Julian Calendar 1 Nov. 95 BCE == Greg. Calendar 30 Oct. 095 BCE

The year -94 astronomical counting style corresponds to year 095 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 95 BCE
# geocentric

## DECEMBER 95 BCE (-94) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 4 26 31 | 6♐36'34 | 16♎53 | 20°R42 | 9°R51 | 7♈39 | 26♎52 | 18♓45 | 15♒32 | 20°R23 | 5°R 7 | 16°R50 | 18♑22 | 22♉36 | n.a. | T 1 |
| F 2 | 4 30 27 | 7°37'51 | 1♏41 | 20♏22 | 9♐15 | 7°53 | 27° 4 | 18°45 | 15°33 | 20♈22 | 5♉ 6 | 16♑44 | 18°19 | 22°42 | n.a. | F 2 |
| S 3 | 4 34 24 | 8°39'07 | 16°48 | 20°12 | 8°38 | 8° 7 | 27°16 | 18°46 | 15°35 | 20°21 | 5° 5 | 16°38 | 18°16 | 22°49 | n.a. | S 3 |
| S 4 | 4 38 20 | 9°40'24 | 2♐ 2 | 20°D12 | 8° 1 | 8°22 | 27°27 | 18°47 | 15°37 | 20°20 | 5° 4 | 16°32 | 18°12 | 22°56 | n.a. | S 4 |
| M 5 | 4 42 17 | 10°41'41 | 17°15 | 20°20 | 7°25 | 8°38 | 27°39 | 18°49 | 15°39 | 20°19 | 5° 3 | 16°28 | 18° 9 | 23° 2 | n.a. | M 5 |
| T 6 | 4 46 13 | 11°42'58 | 2♑16 | 20°36 | 6°49 | 8°54 | 27°50 | 18°50 | 15°41 | 20°18 | 5° 2 | 16°26 | 18° 6 | 23° 9 | n.a. | T 6 |
| W 7 | 4 50 10 | 12°44'15 | 16°56 | 21° 0 | 6°15 | 9°10 | 28° 1 | 18°51 | 15°43 | 20°17 | 5° 1 | 16°D25 | 18° 3 | 23°16 | n.a. | W 7 |
| T 8 | 4 54 7 | 13°45'31 | 1♒10 | 21°31 | 5°41 | 9°28 | 28°12 | 18°53 | 15°45 | 20°16 | 5° 0 | 16°26 | 18° 0 | 23°23 | n.a. | T 8 |
| F 9 | 4 58 3 | 14°46'46 | 14°56 | 22° 8 | 5° 8 | 9°45 | 28°24 | 18°54 | 15°47 | 20°15 | 5° 0 | 16°27 | 17°57 | 23°29 | n.a. | F 9 |
| S 10 | 5 2 0 | 15°48'01 | 28°14 | 22°50 | 4°37 | 10° 3 | 28°35 | 18°56 | 15°49 | 20°15 | 4°59 | 16°29 | 17°53 | 23°36 | n.a. | S 10 |
| S 11 | 5 5 56 | 16°49'15 | 11♓ 9 | 23°37 | 4° 7 | 10°21 | 28°46 | 18°58 | 15°51 | 20°14 | 4°58 | 16°R30 | 17°50 | 23°43 | n.a. | S 11 |
| M12 | 5 9 53 | 17°50'29 | 23°42 | 24°28 | 3°39 | 10°40 | 28°56 | 19° 0 | 15°53 | 20°13 | 4°57 | 16°30 | 17°47 | 23°49 | n.a. | M12 |
| T 13 | 5 13 49 | 18°51'41 | 5♈58 | 25°23 | 3°13 | 11° 0 | 29° 7 | 19° 2 | 15°55 | 20°12 | 4°56 | 16°28 | 17°44 | 23°56 | n.a. | T 13 |
| W14 | 5 17 46 | 19°52'54 | 18° 2 | 26°22 | 2°50 | 11°19 | 29°18 | 19° 4 | 15°57 | 20°12 | 4°56 | 16°26 | 17°41 | 24° 3 | n.a. | W14 |
| T 15 | 5 21 42 | 20°54'05 | 29°58 | 27°23 | 2°28 | 11°39 | 29°29 | 19° 6 | 16° 0 | 20°11 | 4°55 | 16°22 | 17°37 | 24° 9 | n.a. | T 15 |
| F 16 | 5 25 39 | 21°55'16 | 11♉50 | 28°28 | 2° 9 | 12° 0 | 29°39 | 19° 9 | 16° 2 | 20°10 | 4°54 | 16°18 | 17°34 | 24°16 | n.a. | F 16 |
| S 17 | 5 29 36 | 22°56'26 | 23°40 | 29°35 | 1°52 | 12°21 | 29°49 | 19°11 | 16° 4 | 20°10 | 4°53 | 16°13 | 17°31 | 24°23 | n.a. | S 17 |
| S 18 | 5 33 32 | 23°57'35 | 5♊32 | 0♐44 | 1°37 | 12°42 | 29°59 | 19°14 | 16° 7 | 20° 9 | 4°53 | 16° 9 | 17°28 | 24°30 | n.a. | S 18 |
| M19 | 5 37 29 | 24°58'43 | 17°27 | 1°55 | 1°25 | 13° 4 | 0♏10 | 19°16 | 16° 9 | 20° 9 | 4°52 | 16° 6 | 17°25 | 24°36 | n.a. | M19 |
| T 20 | 5 41 25 | 25°59'51 | 29°27 | 3° 9 | 1°16 | 13°26 | 0°20 | 19°19 | 16°11 | 20° 8 | 4°51 | 16° 4 | 17°22 | 24°43 | n.a. | T 20 |
| W21 | 5 45 22 | 27° 0'58 | 11♋34 | 4°24 | 1° 9 | 13°48 | 0°30 | 19°22 | 16°14 | 20° 8 | 4°51 | 16°D 3 | 17°18 | 24°50 | n.a. | W21 |
| T 22 | 5 49 18 | 28° 2'05 | 23°50 | 5°40 | 1° 5 | 14°11 | 0°40 | 19°25 | 16°16 | 20° 7 | 4°50 | 16° 3 | 17°15 | 24°56 | n.a. | T 22 |
| F 23 | 5 53 15 | 29° 3'10 | 6♌16 | 6°58 | 1°D 3 | 14°34 | 0°50 | 19°28 | 16°19 | 20° 7 | 4°49 | 16° 4 | 17°12 | 25° 3 | n.a. | F 23 |
| S 24 | 5 57 12 | 0♑ 4'15 | 18°54 | 8°17 | 1° 3 | 14°57 | 1° 0 | 19°31 | 16°22 | 20° 6 | 4°49 | 16° 6 | 17° 9 | 25°10 | n.a. | S 24 |
| S 25 | 6 1 8 | 1° 5'20 | 1♍47 | 9°37 | 1° 6 | 15°21 | 1° 9 | 19°35 | 16°24 | 20° 6 | 4°48 | 16° 7 | 17° 6 | 25°16 | n.a. | S 25 |
| M26 | 6 5 5 | 2° 6'23 | 14°57 | 10°59 | 1°11 | 15°45 | 1°19 | 19°38 | 16°27 | 20° 6 | 4°48 | 16° 8 | 17° 3 | 25°23 | n.a. | M26 |
| T 27 | 6 9 1 | 3° 7'26 | 28°25 | 12°22 | 1°19 | 16° 9 | 1°28 | 19°41 | 16°30 | 20° 6 | 4°47 | 16°R 9 | 16°59 | 25°30 | n.a. | T 27 |
| W28 | 6 12 58 | 4° 8'28 | 12♎13 | 13°45 | 1°29 | 16°33 | 1°37 | 19°45 | 16°32 | 20° 5 | 4°47 | 16° 9 | 16°56 | 25°36 | n.a. | W28 |
| T 29 | 6 16 54 | 5° 9'30 | 26°22 | 15°10 | 1°41 | 16°58 | 1°47 | 19°49 | 16°35 | 20° 5 | 4°46 | 16° 8 | 16°53 | 25°43 | n.a. | T 29 |
| F 30 | 6 20 51 | 6°10'31 | 10♏49 | 16°35 | 1°56 | 17°23 | 1°56 | 19°52 | 16°38 | 20° 5 | 4°46 | 16° 7 | 16°50 | 25°50 | n.a. | F 30 |
| S 31 | 6 24 47 | 7♑11'31 | 25♏32 | 18♐ 2 | 2♐12 | 17♈48 | 2♏ 5 | 19♓56 | 16♒41 | 20♈ 5 | 4♉45 | 16♑ 6 | 16♑47 | 25♉57 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| T 1 | 21s39 | 11s28 | 5s10 | 15s10 | 3n 5 | 21s 0 | 1n11 | 3n30 | 0n28 | 9s28 | 1n 4 | 6s53 | 2s36 | 17s 4 | 0s44 | 6n12 | 2s 0 | 1n12 | 12s54 | 22s38 | 22s26 | 22n44 | | | n.a. |
| F 2 | 21 50 | 16 52 | 5 0 | 15 4 | 3 5 | 20 39 | 1 27 | 3 37 | 0 30 | 9 32 | 1 5 | 6 52 | 2 35 | 17 3 | 0 44 | 6 11 | 2 0 | 1 12 | 12 54 | 22 39 | 22 26 | 22 45 | | | n.a. |
| S 3 | 22 0 | 21 19 | 4 29 | 15 3 | 3 3 | 20 19 | 1 42 | 3 44 | 0 31 | 9 37 | 1 5 | 6 52 | 2 35 | 17 2 | 0 44 | 6 11 | 2 0 | 1 12 | 12 54 | 22 40 | 22 27 | 22 47 | | | n.a. |
| S 4 | 22 9 | 24 22 | 3 38 | 15 5 | 3 1 | 19 58 | 1 57 | 3 51 | 0 33 | 9 41 | 1 5 | 6 51 | 2 35 | 17 2 | 0 44 | 6 11 | 2 0 | 1 12 | 12 54 | 22 40 | 22 27 | 22 48 | | | n.a. |
| M 5 | 22 18 | 25 37 | 2 32 | 15 11 | 2 57 | 19 37 | 2 12 | 3 59 | 0 34 | 9 45 | 1 5 | 6 50 | 2 34 | 17 1 | 0 44 | 6 10 | 2 0 | 1 12 | 12 54 | 22 41 | 22 28 | 22 49 | | | n.a. |
| T 6 | 22 27 | 24 58 | 1 17 | 15 20 | 2 52 | 19 17 | 2 27 | 4 7 | 0 36 | 9 49 | 1 5 | 6 50 | 2 34 | 17 1 | 0 44 | 6 10 | 2 0 | 1 11 | 12 53 | 22 41 | 22 28 | 22 50 | | | n.a. |
| W 7 | 22 35 | 22 35 | 0n 3 | 15 32 | 2 46 | 18 57 | 2 41 | 4 15 | 0 37 | 9 53 | 1 5 | 6 49 | 2 34 | 17 0 | 0 44 | 6 10 | 2 0 | 1 11 | 12 53 | 22 41 | 22 28 | 22 52 | | | n.a. |
| T 8 | 22 42 | 18 50 | 1 20 | 15 46 | 2 40 | 18 38 | 2 54 | 4 23 | 0 39 | 9 57 | 1 5 | 6 48 | 2 34 | 16 59 | 0 44 | 6 9 | 2 0 | 1 11 | 12 53 | 22 41 | 22 29 | 22 53 | | | n.a. |
| F 9 | 22 50 | 14 9 | 2 30 | 16 2 | 2 33 | 18 19 | 3 8 | 4 31 | 0 40 | 10 1 | 1 5 | 6 47 | 2 33 | 16 59 | 0 44 | 6 9 | 2 0 | 1 11 | 12 53 | 22 41 | 22 29 | 22 54 | | | n.a. |
| S 10 | 22 56 | 8 57 | 3 29 | 16 20 | 2 26 | 18 1 | 3 20 | 4 39 | 0 41 | 10 5 | 1 5 | 6 46 | 2 33 | 16 58 | 0 44 | 6 9 | 2 0 | 1 11 | 12 52 | 22 41 | 22 30 | 22 55 | | | n.a. |
| S 11 | 23 3 | 3 31 | 4 16 | 16 40 | 2 18 | 17 44 | 3 33 | 4 48 | 0 43 | 10 8 | 1 5 | 6 45 | 2 33 | 16 58 | 0 44 | 6 9 | 2 0 | 1 11 | 12 52 | 22 41 | 22 30 | 22 57 | | | n.a. |
| M12 | 23 9 | 1n53 | 4 49 | 17 0 | 2 10 | 17 27 | 3 44 | 4 57 | 0 44 | 10 12 | 1 5 | 6 44 | 2 33 | 16 57 | 0 44 | 6 8 | 2 0 | 1 11 | 12 52 | 22 41 | 22 31 | 22 58 | | | n.a. |
| T 13 | 23 14 | 7 6 | 5 8 | 17 22 | 2 1 | 17 11 | 3 55 | 5 5 | 0 45 | 10 16 | 1 5 | 6 43 | 2 32 | 16 56 | 0 44 | 6 8 | 2 0 | 1 11 | 12 52 | 22 41 | 22 31 | 22 59 | | | n.a. |
| W14 | 23 19 | 11 58 | 5 13 | 17 44 | 1 53 | 16 57 | 4 5 | 5 14 | 0 46 | 10 20 | 1 5 | 6 42 | 2 32 | 16 55 | 0 44 | 6 8 | 2 0 | 1 11 | 12 52 | 22 41 | 22 31 | 23 0 | | | n.a. |
| T 15 | 23 23 | 16 20 | 5 5 | 18 6 | 1 44 | 16 43 | 4 15 | 5 23 | 0 48 | 10 23 | 1 5 | 6 41 | 2 32 | 16 55 | 0 44 | 6 8 | 2 0 | 1 11 | 12 51 | 22 41 | 22 32 | 23 2 | | | n.a. |
| F 16 | 23 27 | 20 2 | 4 43 | 18 29 | 1 35 | 16 31 | 4 24 | 5 33 | 0 49 | 10 27 | 1 6 | 6 40 | 2 32 | 16 54 | 0 44 | 6 8 | 1 59 | 1 11 | 12 51 | 22 42 | 22 32 | 23 3 | | | n.a. |
| S 17 | 23 31 | 22 55 | 4 10 | 18 52 | 1 27 | 16 19 | 4 32 | 5 42 | 0 50 | 10 31 | 1 6 | 6 38 | 2 31 | 16 53 | 0 44 | 6 8 | 1 59 | 1 11 | 12 51 | 22 43 | 22 33 | 23 4 | | | n.a. |
| S 18 | 23 34 | 24 50 | 3 25 | 19 16 | 1 18 | 16 9 | 4 40 | 5 51 | 0 51 | 10 34 | 1 6 | 6 37 | 2 31 | 16 53 | 0 43 | 6 7 | 1 59 | 1 11 | 12 51 | 22 43 | 22 33 | 23 5 | | | n.a. |
| M19 | 23 37 | 25 37 | 2 31 | 19 39 | 1 9 | 15 59 | 4 47 | 6 1 | 0 52 | 10 38 | 1 6 | 6 36 | 2 31 | 16 52 | 0 43 | 6 7 | 1 59 | 1 11 | 12 50 | 22 43 | 22 34 | 23 6 | | | n.a. |
| T 20 | 23 39 | 25 13 | 1 30 | 20 2 | 1 1 | 15 51 | 4 54 | 6 10 | 0 53 | 10 41 | 1 6 | 6 35 | 2 30 | 16 51 | 0 43 | 6 7 | 1 59 | 1 11 | 12 50 | 22 44 | 22 34 | 23 7 | | | n.a. |
| W21 | 23 40 | 23 36 | 0 25 | 20 24 | 0 52 | 15 44 | 5 0 | 6 20 | 0 54 | 10 45 | 1 6 | 6 33 | 2 30 | 16 50 | 0 43 | 6 7 | 1 59 | 1 11 | 12 50 | 22 44 | 22 34 | 23 9 | | | n.a. |
| T 22 | 23 42 | 20 53 | 0s43 | 20 47 | 0 43 | 15 38 | 5 5 | 6 30 | 0 55 | 10 48 | 1 6 | 6 32 | 2 30 | 16 49 | 0 43 | 6 7 | 1 59 | 1 11 | 12 50 | 22 44 | 22 35 | 23 10 | | | n.a. |
| F 23 | 23 42 | 17 9 | 1 49 | 21 8 | 0 35 | 15 33 | 5 10 | 6 40 | 0 56 | 10 52 | 1 6 | 6 30 | 2 30 | 16 49 | 0 43 | 6 7 | 1 59 | 1 11 | 12 49 | 22 44 | 22 35 | 23 11 | | | n.a. |
| S 24 | 23 42 | 12 36 | 2 52 | 21 30 | 0 27 | 15 29 | 5 14 | 6 50 | 0 57 | 10 55 | 1 6 | 6 29 | 2 29 | 16 48 | 0 43 | 6 7 | 1 59 | 1 11 | 12 49 | 22 43 | 22 36 | 23 12 | | | n.a. |
| S 25 | 23 42 | 7 26 | 3 47 | 21 50 | 0 18 | 15 26 | 5 18 | 7 0 | 0 58 | 10 58 | 1 6 | 6 27 | 2 29 | 16 47 | 0 43 | 6 7 | 1 59 | 1 11 | 12 49 | 22 43 | 22 36 | 23 13 | | | n.a. |
| M26 | 23 41 | 1 50 | 4 31 | 22 10 | 0 10 | 15 24 | 5 21 | 7 10 | 0 59 | 11 1 | 1 6 | 6 26 | 2 29 | 16 46 | 0 43 | 6 7 | 1 59 | 1 11 | 12 49 | 22 43 | 22 36 | 23 14 | | | n.a. |
| T 27 | 23 40 | 3s58 | 5 2 | 22 29 | 0 2 | 15 23 | 5 23 | 7 20 | 1 0 | 11 5 | 1 7 | 6 24 | 2 29 | 16 45 | 0 43 | 6 7 | 1 59 | 1 11 | 12 48 | 22 43 | 22 37 | 23 15 | | | n.a. |
| W28 | 23 38 | 9 43 | 5 16 | 22 48 | 0s 5 | 15 22 | 5 26 | 7 30 | 1 0 | 11 8 | 1 7 | 6 22 | 2 28 | 16 45 | 0 43 | 6 7 | 1 59 | 1 11 | 12 48 | 22 43 | 22 37 | 23 17 | | | n.a. |
| T 29 | 23 36 | 15 7 | 5 12 | 23 5 | 0 13 | 15 23 | 5 27 | 7 41 | 1 1 | 11 11 | 1 7 | 6 21 | 2 28 | 16 44 | 0 43 | 6 7 | 1 59 | 1 11 | 12 48 | 22 43 | 22 38 | 23 18 | | | n.a. |
| F 30 | 23 34 | 19 47 | 4 48 | 23 22 | 0 20 | 15 25 | 5 29 | 7 51 | 1 2 | 11 14 | 1 7 | 6 19 | 2 28 | 16 43 | 0 43 | 6 7 | 1 59 | 1 12 | 12 48 | 22 43 | 22 38 | 23 19 | | | n.a. |
| S 31 | 23s31 | 23s19 | 4s 5 | 23s37 | 0s28 | 15s27 | 5n30 | 8n 2 | 1n 3 | 11s17 | 1n 7 | 6s17 | 2s28 | 16s42 | 0s43 | 6n 7 | 1s58 | 1n12 | 12s47 | 22s43 | 22s38 | 23n20 | | | n.a. |

Julian Day Number = 1687058.5, Delta T = 03h12m27s
Ecliptic obliquity = 23°42'26, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°21'50, Lahiri = - 5°14'50 Julian Calendar 1 Dec. 95 BCE == Greg. Calendar 29 Nov. 095 BCE

The year -94 astronomical counting style corresponds to year 095 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 94 BCE
# geocentric

## JANUARY 94 BCE (-93) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 28 44 | 8♑12'30 | 10♐24 | 19♐29 | 2♐30 | 18♈14 | 2♏13 | 20♓ 0 | 16♒44 | 20°R 5 | 4°R45 | 16°R 5 | 16♑43 | 26♉ 3 | n.a. | S 1 |
| M 2 | 6 32 41 | 9°13'28 | 25°18 | 20°57 | 2°51 | 18°40 | 2°22 | 20° 4 | 16°46 | 20♈ 5 | 4♉44 | 16♑ 4 | 16°40 | 26°10 | n.a. | M 2 |
| T 3 | 6 36 37 | 10°14'26 | 10♑ 7 | 22°26 | 3°13 | 19° 6 | 2°31 | 20° 8 | 16°49 | 20°D 5 | 4°44 | 16°D 4 | 16°37 | 26°17 | n.a. | T 3 |
| W 4 | 6 40 34 | 11°15'21 | 24°42 | 23°55 | 3°37 | 19°32 | 2°39 | 20°13 | 16°52 | 20° 5 | 4°43 | 16° 4 | 16°34 | 26°23 | n.a. | W 4 |
| T 5 | 6 44 30 | 12°16'16 | 8♒58 | 25°26 | 4° 3 | 19°59 | 2°47 | 20°17 | 16°55 | 20° 5 | 4°43 | 16° 4 | 16°31 | 26°30 | n.a. | T 5 |
| F 6 | 6 48 27 | 13°17'09 | 22°50 | 26°57 | 4°31 | 20°26 | 2°56 | 20°21 | 16°58 | 20° 5 | 4°43 | 16° 4 | 16°28 | 26°37 | n.a. | F 6 |
| S 7 | 6 52 23 | 14°18'01 | 6♓16 | 28°29 | 5° 0 | 20°53 | 3° 4 | 20°26 | 17° 1 | 20° 5 | 4°42 | 16° 5 | 16°24 | 26°43 | n.a. | S 7 |
| S 8 | 6 56 20 | 15°18'50 | 19°18 | 0♑ 2 | 5°30 | 21°20 | 3°12 | 20°31 | 17° 4 | 20° 5 | 4°42 | 16° 5 | 16°21 | 26°50 | n.a. | S 8 |
| M 9 | 7 0 16 | 16°19'39 | 1♈57 | 1°35 | 6° 3 | 21°48 | 3°19 | 20°35 | 17° 7 | 20° 5 | 4°42 | 16°R 5 | 16°18 | 26°57 | n.a. | M 9 |
| T 10 | 7 4 13 | 17°20'25 | 14°18 | 3° 9 | 6°36 | 22°15 | 3°27 | 20°40 | 17°10 | 20° 6 | 4°42 | 16°D 5 | 16°15 | 27° 3 | n.a. | T 10 |
| W11 | 7 8 10 | 18°21'10 | 26°24 | 4°45 | 7°11 | 22°43 | 3°35 | 20°45 | 17°13 | 20° 6 | 4°41 | 16° 5 | 16°12 | 27°10 | n.a. | W11 |
| T 12 | 7 12 6 | 19°21'53 | 8♉20 | 6°20 | 7°48 | 23°12 | 3°42 | 20°50 | 17°17 | 20° 6 | 4°41 | 16° 5 | 16° 9 | 27°17 | n.a. | T 12 |
| F 13 | 7 16 3 | 20°22'35 | 20°11 | 7°57 | 8°25 | 23°40 | 3°49 | 20°55 | 17°20 | 20° 6 | 4°41 | 16° 5 | 16° 5 | 27°24 | n.a. | F 13 |
| S 14 | 7 19 59 | 21°23'14 | 2♊ 1 | 9°35 | 9° 4 | 24° 8 | 3°56 | 21° 0 | 17°23 | 20° 7 | 4°41 | 16° 6 | 16° 2 | 27°30 | n.a. | S 14 |
| S 15 | 7 23 56 | 22°23'52 | 13°54 | 11°13 | 9°44 | 24°37 | 4° 3 | 21° 5 | 17°26 | 20° 7 | 4°41 | 16° 7 | 15°59 | 27°37 | n.a. | S 15 |
| M16 | 7 27 52 | 23°24'29 | 25°53 | 12°52 | 10°25 | 25° 6 | 4°10 | 21°10 | 17°29 | 20° 8 | 4°41 | 16° 7 | 15°56 | 27°44 | n.a. | M16 |
| T 17 | 7 31 49 | 24°25'03 | 8♋ 2 | 14°32 | 11° 8 | 25°35 | 4°17 | 21°15 | 17°32 | 20° 8 | 4°40 | 16° 8 | 15°53 | 27°50 | n.a. | T 17 |
| W18 | 7 35 46 | 25°25'36 | 20°22 | 16°13 | 11°51 | 26° 4 | 4°23 | 21°21 | 17°36 | 20° 9 | 4°40 | 16°R 8 | 15°49 | 27°57 | n.a. | W18 |
| T 19 | 7 39 42 | 26°26'07 | 2♌55 | 17°55 | 12°35 | 26°34 | 4°30 | 21°26 | 17°39 | 20° 9 | 4°40 | 16° 7 | 15°46 | 28° 4 | n.a. | T 19 |
| F 20 | 7 43 39 | 27°26'37 | 15°41 | 19°38 | 13°21 | 27° 3 | 4°36 | 21°32 | 17°42 | 20°10 | 4°40 | 16° 6 | 15°43 | 28°10 | n.a. | F 20 |
| S 21 | 7 47 35 | 28°27'04 | 28°41 | 21°21 | 14° 7 | 27°33 | 4°42 | 21°37 | 17°45 | 20°10 | 4°D40 | 16° 5 | 15°40 | 28°17 | n.a. | S 21 |
| S 22 | 7 51 32 | 29°27'30 | 11♍54 | 23° 6 | 14°54 | 28° 3 | 4°48 | 21°43 | 17°49 | 20°11 | 4°40 | 16° 3 | 15°37 | 28°24 | n.a. | S 22 |
| M23 | 7 55 28 | 0♒27'55 | 25°21 | 24°51 | 15°42 | 28°33 | 4°53 | 21°49 | 17°52 | 20°12 | 4°40 | 16° 1 | 15°34 | 28°30 | n.a. | M23 |
| T 24 | 7 59 25 | 1°28'18 | 9♎ 0 | 26°38 | 16°31 | 29° 3 | 4°59 | 21°55 | 17°55 | 20°12 | 4°40 | 16° 0 | 15°30 | 28°37 | n.a. | T 24 |
| W25 | 8 3 21 | 2°28'40 | 22°51 | 28°25 | 17°21 | 29°33 | 5° 4 | 22° 1 | 17°59 | 20°13 | 4°40 | 15°59 | 15°27 | 28°44 | n.a. | W25 |
| T 26 | 8 7 18 | 3°29'00 | 6♏53 | 0♒14 | 18°11 | 0♉ 3 | 5°10 | 22° 6 | 18° 2 | 20°14 | 4°41 | 15°D58 | 15°24 | 28°51 | n.a. | T 26 |
| F 27 | 8 11 14 | 4°29'18 | 21° 6 | 2° 3 | 19° 2 | 0°34 | 5°15 | 22°12 | 18° 5 | 20°15 | 4°41 | 15°59 | 15°21 | 28°57 | n.a. | F 27 |
| S 28 | 8 15 11 | 5°29'36 | 5♐25 | 3°53 | 19°54 | 1° 5 | 5°20 | 22°19 | 18° 9 | 20°16 | 4°41 | 16° 0 | 15°18 | 29° 4 | n.a. | S 28 |
| S 29 | 8 19 8 | 6°29'51 | 19°50 | 5°45 | 20°47 | 1°36 | 5°25 | 22°25 | 18°12 | 20°16 | 4°41 | 16° 2 | 15°15 | 29°11 | n.a. | S 29 |
| M30 | 8 23 4 | 7°30'05 | 4♑16 | 7°37 | 21°40 | 2° 6 | 5°29 | 22°31 | 18°16 | 20°17 | 4°41 | 16° 3 | 15°11 | 29°17 | n.a. | M30 |
| T 31 | 8 27 1 | 8♒30'17 | 18♑39 | 9♒30 | 22♐34 | 2♉38 | 5♏34 | 22♓37 | 18♒19 | 20♈18 | 4♉41 | 16°R 3 | 15♑ 8 | 29♉24 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| S 1 | 23s27 | 25s19 | 3s 5 | 23s52 | 0s35 | 15s30 | 5n30 | 8n12 | 1n 4 | 11s20 | 1n 7 | 6s15 | 2s28 | 16s41 | 0s43 | 6n 7 | 1s58 | 1n12 | 12s47 | 22s44 | 22s39 | 23n21 | | | n.a. |
| M 2 | 23 23 | 25 30 | 1 53 | 24 5 | 0 41 | 15 34 | 5 30 | 8 23 | 1 4 | 11 23 | 1 7 | 6 14 | 2 27 | 16 40 | 0 43 | 6 7 | 1 58 | 1 12 | 12 47 | 22 44 | 22 39 | 23 22 | | | n.a. |
| T 3 | 23 18 | 23 52 | 0 33 | 24 17 | 0 48 | 15 38 | 5 30 | 8 34 | 1 5 | 11 26 | 1 7 | 6 12 | 2 27 | 16 39 | 0 43 | 6 7 | 1 58 | 1 12 | 12 46 | 22 44 | 22 40 | 23 23 | | | n.a. |
| W 4 | 23 13 | 20 38 | 0n48 | 24 28 | 0 55 | 15 43 | 5 30 | 8 44 | 1 6 | 11 28 | 1 7 | 6 10 | 2 27 | 16 38 | 0 43 | 6 7 | 1 58 | 1 12 | 12 46 | 22 44 | 22 40 | 23 24 | | | n.a. |
| T 5 | 23 8 | 16 14 | 2 4 | 24 38 | 1 1 | 15 49 | 5 29 | 8 55 | 1 6 | 11 31 | 1 8 | 6 8 | 2 27 | 16 37 | 0 43 | 6 7 | 1 58 | 1 12 | 12 46 | 22 44 | 22 40 | 23 25 | | | n.a. |
| F 6 | 23 2 | 11 4 | 3 10 | 24 47 | 1 7 | 15 55 | 5 28 | 9 6 | 1 7 | 11 34 | 1 8 | 6 6 | 2 26 | 16 36 | 0 43 | 6 7 | 1 58 | 1 12 | 12 46 | 22 44 | 22 41 | 23 26 | | | n.a. |
| S 7 | 22 56 | 5 32 | 4 4 | 24 54 | 1 12 | 16 1 | 5 26 | 9 17 | 1 8 | 11 37 | 1 8 | 6 4 | 2 26 | 16 35 | 0 43 | 6 7 | 1 58 | 1 13 | 12 45 | 22 44 | 22 41 | 23 27 | | | n.a. |
| S 8 | 22 49 | 0n 4 | 4 44 | 25 0 | 1 18 | 16 8 | 5 25 | 9 28 | 1 8 | 11 39 | 1 8 | 6 2 | 2 26 | 16 35 | 0 43 | 6 7 | 1 58 | 1 13 | 12 45 | 22 44 | 22 42 | 23 28 | | | n.a. |
| M 9 | 22 42 | 5 29 | 5 8 | 25 5 | 1 23 | 16 16 | 5 23 | 9 39 | 1 9 | 11 42 | 1 8 | 6 0 | 2 26 | 16 34 | 0 43 | 6 7 | 1 58 | 1 13 | 12 45 | 22 44 | 22 42 | 23 30 | | | n.a. |
| T 10 | 22 34 | 10 34 | 5 17 | 25 8 | 1 28 | 16 23 | 5 20 | 9 50 | 1 10 | 11 44 | 1 8 | 5 58 | 2 26 | 16 33 | 0 43 | 6 7 | 1 58 | 1 13 | 12 44 | 22 44 | 22 42 | 23 31 | | | n.a. |
| W11 | 22 26 | 15 8 | 5 12 | 25 10 | 1 33 | 16 32 | 5 18 | 10 1 | 1 10 | 11 47 | 1 8 | 5 56 | 2 25 | 16 32 | 0 43 | 6 8 | 1 58 | 1 13 | 12 44 | 22 44 | 22 43 | 23 32 | | | n.a. |
| T 12 | 22 17 | 19 4 | 4 54 | 25 10 | 1 37 | 16 40 | 5 15 | 10 12 | 1 11 | 11 49 | 1 8 | 5 54 | 2 25 | 16 31 | 0 43 | 6 8 | 1 58 | 1 14 | 12 44 | 22 44 | 22 43 | 23 33 | | | n.a. |
| F 13 | 22 9 | 22 12 | 4 23 | 25 9 | 1 41 | 16 49 | 5 13 | 10 23 | 1 11 | 11 51 | 1 9 | 5 51 | 2 25 | 16 30 | 0 43 | 6 8 | 1 58 | 1 14 | 12 44 | 22 44 | 22 44 | 23 34 | | | n.a. |
| S 14 | 21 59 | 24 24 | 3 41 | 25 6 | 1 45 | 16 58 | 5 10 | 10 35 | 1 12 | 11 54 | 1 9 | 5 49 | 2 25 | 16 29 | 0 43 | 6 8 | 1 58 | 1 14 | 12 43 | 22 43 | 22 44 | 23 35 | | | n.a. |
| S 15 | 21 49 | 25 32 | 2 50 | 25 1 | 1 48 | 17 7 | 5 6 | 10 46 | 1 12 | 11 56 | 1 9 | 5 47 | 2 24 | 16 28 | 0 43 | 6 8 | 1 57 | 1 14 | 12 43 | 22 43 | 22 44 | 23 36 | | | n.a. |
| M16 | 21 39 | 25 28 | 1 50 | 24 55 | 1 51 | 17 16 | 5 3 | 10 57 | 1 13 | 11 58 | 1 9 | 5 45 | 2 24 | 16 27 | 0 43 | 6 9 | 1 57 | 1 15 | 12 43 | 22 43 | 22 45 | 23 37 | | | n.a. |
| T 17 | 21 29 | 24 12 | 0 45 | 24 48 | 1 54 | 17 25 | 4 59 | 11 8 | 1 13 | 12 0 | 1 9 | 5 42 | 2 24 | 16 26 | 0 43 | 6 9 | 1 57 | 1 15 | 12 42 | 22 43 | 22 45 | 23 38 | | | n.a. |
| W18 | 21 17 | 21 45 | 0s23 | 24 38 | 1 56 | 17 35 | 4 56 | 11 19 | 1 14 | 12 2 | 1 9 | 5 40 | 2 24 | 16 25 | 0 43 | 6 9 | 1 57 | 1 15 | 12 42 | 22 43 | 22 45 | 23 39 | | | n.a. |
| T 19 | 21 6 | 18 14 | 1 32 | 24 27 | 1 58 | 17 44 | 4 52 | 11 31 | 1 14 | 12 4 | 1 9 | 5 38 | 2 24 | 16 24 | 0 43 | 6 9 | 1 57 | 1 15 | 12 42 | 22 43 | 22 46 | 23 40 | | | n.a. |
| F 20 | 20 54 | 13 49 | 2 37 | 24 14 | 2 0 | 17 54 | 4 48 | 11 42 | 1 15 | 12 6 | 1 10 | 5 35 | 2 23 | 16 23 | 0 43 | 6 10 | 1 57 | 1 16 | 12 41 | 22 43 | 22 46 | 23 41 | | | n.a. |
| S 21 | 20 42 | 8 43 | 3 34 | 23 59 | 2 1 | 18 3 | 4 44 | 11 53 | 1 15 | 12 8 | 1 10 | 5 33 | 2 23 | 16 22 | 0 43 | 6 10 | 1 57 | 1 16 | 12 41 | 22 44 | 22 47 | 23 41 | | | n.a. |
| S 22 | 20 30 | 3 9 | 4 22 | 23 43 | 2 2 | 18 13 | 4 40 | 12 4 | 1 16 | 12 10 | 1 10 | 5 30 | 2 23 | 16 21 | 0 43 | 6 10 | 1 57 | 1 16 | 12 41 | 22 44 | 22 47 | 23 42 | | | n.a. |
| M23 | 20 17 | 2s39 | 4 56 | 23 24 | 2 3 | 18 22 | 4 35 | 12 16 | 1 16 | 12 12 | 1 10 | 5 28 | 2 23 | 16 20 | 0 43 | 6 11 | 1 57 | 1 16 | 12 41 | 22 44 | 22 47 | 23 43 | | | n.a. |
| T 24 | 20 3 | 8 24 | 5 14 | 23 4 | 2 3 | 18 32 | 4 31 | 12 27 | 1 16 | 12 14 | 1 10 | 5 25 | 2 23 | 16 19 | 0 43 | 6 11 | 1 57 | 1 17 | 12 40 | 22 44 | 22 48 | 23 44 | | | n.a. |
| W25 | 19 50 | 13 49 | 5 14 | 22 42 | 2 2 | 18 41 | 4 26 | 12 38 | 1 17 | 12 15 | 1 10 | 5 23 | 2 23 | 16 17 | 0 43 | 6 11 | 1 57 | 1 17 | 12 40 | 22 44 | 22 48 | 23 45 | | | n.a. |
| T 26 | 19 36 | 18 36 | 4 55 | 22 18 | 2 1 | 18 50 | 4 22 | 12 49 | 1 17 | 12 17 | 1 10 | 5 20 | 2 22 | 16 16 | 0 43 | 6 12 | 1 57 | 1 17 | 12 40 | 22 44 | 22 48 | 23 46 | | | n.a. |
| F 27 | 19 21 | 22 23 | 4 19 | 21 52 | 2 0 | 18 59 | 4 17 | 13 0 | 1 18 | 12 19 | 1 10 | 5 18 | 2 22 | 16 15 | 0 43 | 6 12 | 1 57 | 1 18 | 12 39 | 22 44 | 22 49 | 23 47 | | | n.a. |
| S 28 | 19 6 | 24 49 | 3 26 | 21 24 | 1 58 | 19 8 | 4 12 | 13 12 | 1 18 | 12 20 | 1 11 | 5 15 | 2 22 | 16 14 | 0 43 | 6 12 | 1 57 | 1 18 | 12 39 | 22 44 | 22 49 | 23 48 | | | n.a. |
| S 29 | 18 51 | 25 38 | 2 20 | 20 54 | 1 55 | 19 16 | 4 7 | 13 23 | 1 18 | 12 22 | 1 11 | 5 13 | 2 22 | 16 13 | 0 43 | 6 13 | 1 57 | 1 18 | 12 39 | 22 44 | 22 49 | 23 49 | | | n.a. |
| M30 | 18 36 | 24 43 | 1 5 | 20 23 | 1 52 | 19 25 | 4 2 | 13 34 | 1 19 | 12 23 | 1 11 | 5 10 | 2 22 | 16 12 | 0 43 | 6 13 | 1 56 | 1 19 | 12 38 | 22 44 | 22 50 | 23 50 | | | n.a. |
| T 31 | 18s20 | 22s 9 | 0n14 | 19s49 | 1s49 | 19s33 | 3n57 | 13n45 | 1n19 | 12s24 | 1n11 | 5s 7 | 2s22 | 16s11 | 0s43 | 6n14 | 1s56 | 1n19 | 12s38 | 22s44 | 22s50 | 23n51 | | | n.a. |

Julian Day Number = 1687089.5, Delta T = 03h12m26s
Ecliptic obliquity = 23°42'25, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°21'46, Lahiri = - 5°14'46 Julian Calendar 1 Jan. 94 BCE == Greg. Calendar 30 Dec. 095 BCE

The year -93 astronomical counting style corresponds to year 094 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 94 BCE
# geocentric

## FEBRUARY 94 BCE (-93) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 8 30 57 | 9♒30'28 | 2♒53 | 11♒24 | 23♐28 | 3♉ 9 | 5♏38 | 22♓43 | 18♒22 | 20♈19 | 4♉42 | 16°R 2 | 15♑ 5 | 29♉31 | n.a. | W 1 |
| T 2 | 8 34 54 | 10°30'36 | 16°54 | 13°18 | 24°23 | 3°40 | 5°42 | 22°50 | 18°26 | 20°20 | 4°42 | 16♑ 0 | 15° 2 | 29°37 | n.a. | T 2 |
| F 3 | 8 38 50 | 11°30'42 | 0♓39 | 15°14 | 25°19 | 4°12 | 5°46 | 22°56 | 18°29 | 20°21 | 4°42 | 15°57 | 14°59 | 29°44 | n.a. | F 3 |
| S 4 | 8 42 47 | 12°30'47 | 14° 3 | 17° 9 | 26°15 | 4°43 | 5°50 | 23° 3 | 18°33 | 20°22 | 4°42 | 15°53 | 14°55 | 29°51 | n.a. | S 4 |
| S 5 | 8 46 43 | 13°30'49 | 27° 5 | 19° 6 | 27°11 | 5°15 | 5°53 | 23° 9 | 18°36 | 20°23 | 4°43 | 15°48 | 14°52 | 29°57 | n.a. | S 5 |
| M 6 | 8 50 40 | 14°30'49 | 9♈48 | 21° 2 | 28° 8 | 5°47 | 5°57 | 23°16 | 18°40 | 20°24 | 4°43 | 15°44 | 14°49 | 0♊ 4 | n.a. | M 6 |
| T 7 | 8 54 37 | 15°30'46 | 22°11 | 22°59 | 29° 5 | 6°18 | 6° 0 | 23°22 | 18°43 | 20°26 | 4°43 | 15°40 | 14°46 | 0°11 | n.a. | T 7 |
| W 8 | 8 58 33 | 16°30'42 | 4♉20 | 24°56 | 0♑ 3 | 6°50 | 6° 3 | 23°29 | 18°46 | 20°27 | 4°44 | 15°38 | 14°43 | 0°17 | n.a. | W 8 |
| T 9 | 9 2 30 | 17°30'35 | 16°17 | 26°52 | 1° 2 | 7°23 | 6° 6 | 23°36 | 18°50 | 20°28 | 4°44 | 15°D37 | 14°40 | 0°24 | n.a. | T 9 |
| F 10 | 9 6 26 | 18°30'26 | 28° 9 | 28°48 | 2° 0 | 7°55 | 6° 8 | 23°43 | 18°53 | 20°29 | 4°45 | 15°38 | 14°36 | 0°31 | n.a. | F 10 |
| S 11 | 9 10 23 | 19°30'14 | 9♊59 | 0♓43 | 3° 0 | 8°27 | 6°11 | 23°49 | 18°57 | 20°31 | 4°45 | 15°39 | 14°33 | 0°37 | n.a. | S 11 |
| S 12 | 9 14 19 | 20°30'00 | 21°53 | 2°36 | 3°59 | 8°59 | 6°13 | 23°56 | 19° 0 | 20°32 | 4°45 | 15°41 | 14°30 | 0°44 | n.a. | S 12 |
| M13 | 9 18 16 | 21°29'44 | 3♋55 | 4°28 | 4°59 | 9°32 | 6°15 | 24° 3 | 19° 4 | 20°33 | 4°46 | 15°43 | 14°27 | 0°51 | n.a. | M13 |
| T 14 | 9 22 12 | 22°29'26 | 16°10 | 6°18 | 5°59 | 10° 5 | 6°17 | 24°10 | 19° 7 | 20°35 | 4°46 | 15°R43 | 14°24 | 0°58 | n.a. | T 14 |
| W15 | 9 26 9 | 23°29'05 | 28°41 | 8° 5 | 7° 0 | 10°37 | 6°19 | 24°17 | 19°10 | 20°36 | 4°47 | 15°42 | 14°21 | 1° 4 | n.a. | W15 |
| T 16 | 9 30 6 | 24°28'42 | 11♌30 | 9°49 | 8° 1 | 11°10 | 6°21 | 24°24 | 19°14 | 20°37 | 4°48 | 15°40 | 14°17 | 1°11 | n.a. | T 16 |
| F 17 | 9 34 2 | 25°28'17 | 24°37 | 11°30 | 9° 2 | 11°43 | 6°22 | 24°31 | 19°17 | 20°39 | 4°48 | 15°35 | 14°14 | 1°18 | n.a. | F 17 |
| S 18 | 9 37 59 | 26°27'50 | 8♍ 1 | 13° 7 | 10° 4 | 12°16 | 6°23 | 24°38 | 19°21 | 20°40 | 4°49 | 15°29 | 14°11 | 1°24 | n.a. | S 18 |
| S 19 | 9 41 55 | 27°27'21 | 21°41 | 14°39 | 11° 6 | 12°49 | 6°24 | 24°45 | 19°24 | 20°42 | 4°49 | 15°22 | 14° 8 | 1°31 | n.a. | S 19 |
| M20 | 9 45 52 | 28°26'49 | 5♎34 | 16° 7 | 12° 8 | 13°22 | 6°25 | 24°53 | 19°28 | 20°43 | 4°50 | 15°15 | 14° 5 | 1°38 | n.a. | M20 |
| T 21 | 9 49 48 | 29°26'16 | 19°36 | 17°29 | 13°11 | 13°55 | 6°26 | 25° 0 | 19°31 | 20°45 | 4°51 | 15° 9 | 14° 1 | 1°44 | n.a. | T 21 |
| W22 | 9 53 45 | 0♓25'41 | 3♏43 | 18°45 | 14°13 | 14°28 | 6°26 | 25° 7 | 19°34 | 20°46 | 4°51 | 15° 4 | 13°58 | 1°51 | n.a. | W22 |
| T 23 | 9 57 41 | 1°25'04 | 17°53 | 19°56 | 15°17 | 15° 1 | 6°27 | 25°14 | 19°38 | 20°48 | 4°52 | 15° 1 | 13°55 | 1°58 | n.a. | T 23 |
| F 24 | 10 1 38 | 2°24'25 | 2♐ 3 | 21° 0 | 16°20 | 15°35 | 6°R27 | 25°22 | 19°41 | 20°49 | 4°53 | 15°D 1 | 13°52 | 2° 4 | n.a. | F 24 |
| S 25 | 10 5 35 | 3°23'44 | 16°11 | 21°57 | 17°24 | 16° 8 | 6°27 | 25°29 | 19°44 | 20°51 | 4°53 | 15° 1 | 13°49 | 2°11 | n.a. | S 25 |
| S 26 | 10 9 31 | 4°23'02 | 0♑16 | 22°47 | 18°27 | 16°41 | 6°26 | 25°36 | 19°48 | 20°53 | 4°54 | 15° 2 | 13°46 | 2°18 | n.a. | S 26 |
| M27 | 10 13 28 | 5°22'18 | 14°17 | 23°31 | 19°31 | 17°15 | 6°26 | 25°44 | 19°51 | 20°54 | 4°55 | 15°R 3 | 13°42 | 2°24 | n.a. | M27 |
| T 28 | 10 17 24 | 6♓21'32 | 28♑12 | 24♓ 7 | 20♑36 | 17♉49 | 6♏25 | 25♓51 | 19♒55 | 20♈56 | 4♉56 | 15♑ 2 | 13♑39 | 2♊31 | n.a. | T 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 18s 4 | 18s15 | 1n31 | 19s14 | 1s44 | 19s41 | 3n52 | 13n56 | 1n19 | 12s26 | 1n11 | 5s 5 | 2s21 | 16s10 | 0s43 | 6n14 | 1s56 | 1n19 | 12s38 | 22s44 | 22s51 | 23n52 | | n.a. |
| T 2 | 17 48 | 13 22 | 2 42 | 18 36 | 1 40 | 19 48 | 3 47 | 14 8 | 1 20 | 12 27 | 1 11 | 5 2 | 2 21 | 16 9 | 0 43 | 6 14 | 1 56 | 1 20 | 12 38 | 22 44 | 22 51 | 23 53 | | n.a. |
| F 3 | 17 31 | 7 56 | 3 41 | 17 57 | 1 34 | 19 56 | 3 42 | 14 19 | 1 20 | 12 28 | 1 12 | 4 59 | 2 21 | 16 8 | 0 43 | 6 15 | 1 56 | 1 20 | 12 37 | 22 45 | 22 51 | 23 53 | | n.a. |
| S 4 | 17 14 | 2 15 | 4 27 | 17 16 | 1 28 | 20 3 | 3 37 | 14 30 | 1 20 | 12 29 | 1 12 | 4 57 | 2 21 | 16 7 | 0 43 | 6 15 | 1 56 | 1 21 | 12 37 | 22 45 | 22 52 | 23 54 | | n.a. |
| S 5 | 16 57 | 3n22 | 4 57 | 16 33 | 1 22 | 20 9 | 3 31 | 14 41 | 1 21 | 12 30 | 1 12 | 4 54 | 2 21 | 16 6 | 0 43 | 6 16 | 1 56 | 1 21 | 12 37 | 22 46 | 22 52 | 23 55 | | n.a. |
| M 6 | 16 40 | 8 41 | 5 12 | 15 49 | 1 15 | 20 16 | 3 26 | 14 52 | 1 21 | 12 31 | 1 12 | 4 51 | 2 21 | 16 5 | 0 43 | 6 16 | 1 56 | 1 21 | 12 36 | 22 46 | 22 52 | 23 56 | | n.a. |
| T 7 | 16 22 | 13 32 | 5 11 | 15 3 | 1 7 | 20 22 | 3 21 | 15 3 | 1 21 | 12 32 | 1 12 | 4 48 | 2 21 | 16 4 | 0 43 | 6 17 | 1 56 | 1 22 | 12 36 | 22 46 | 22 53 | 23 57 | | n.a. |
| W 8 | 16 4 | 17 45 | 4 57 | 14 16 | 0 58 | 20 27 | 3 15 | 15 14 | 1 21 | 12 33 | 1 12 | 4 46 | 2 20 | 16 3 | 0 43 | 6 17 | 1 56 | 1 22 | 12 36 | 22 47 | 22 53 | 23 58 | | n.a. |
| T 9 | 15 45 | 21 11 | 4 30 | 13 28 | 0 49 | 20 32 | 3 10 | 15 25 | 1 22 | 12 34 | 1 12 | 4 43 | 2 20 | 16 1 | 0 43 | 6 18 | 1 56 | 1 22 | 12 35 | 22 47 | 22 53 | 23 58 | | n.a. |
| F 10 | 15 27 | 23 43 | 3 51 | 12 38 | 0 39 | 20 37 | 3 4 | 15 35 | 1 22 | 12 35 | 1 13 | 4 40 | 2 20 | 16 0 | 0 43 | 6 18 | 1 56 | 1 23 | 12 35 | 22 47 | 22 54 | 23 59 | | n.a. |
| S 11 | 15 8 | 25 13 | 3 3 | 11 48 | 0 29 | 20 41 | 2 59 | 15 46 | 1 22 | 12 35 | 1 13 | 4 37 | 2 20 | 15 59 | 0 43 | 6 19 | 1 56 | 1 23 | 12 35 | 22 47 | 22 54 | 24 0 | | n.a. |
| S 12 | 14 49 | 25 34 | 2 7 | 10 57 | 0 18 | 20 45 | 2 53 | 15 57 | 1 22 | 12 36 | 1 13 | 4 34 | 2 20 | 15 58 | 0 43 | 6 19 | 1 56 | 1 24 | 12 35 | 22 46 | 22 54 | 24 1 | | n.a. |
| M13 | 14 30 | 24 43 | 1 4 | 10 5 | 0 7 | 20 49 | 2 48 | 16 8 | 1 22 | 12 36 | 1 13 | 4 31 | 2 20 | 15 57 | 0 43 | 6 20 | 1 56 | 1 24 | 12 34 | 22 46 | 22 55 | 24 2 | | n.a. |
| T 14 | 14 10 | 22 40 | 0s 2 | 9 13 | 0n 5 | 20 52 | 2 43 | 16 18 | 1 23 | 12 37 | 1 13 | 4 28 | 2 20 | 15 56 | 0 43 | 6 20 | 1 56 | 1 25 | 12 34 | 22 46 | 22 55 | 24 3 | | n.a. |
| W15 | 13 51 | 19 31 | 1 10 | 8 22 | 0 17 | 20 54 | 2 37 | 16 29 | 1 23 | 12 37 | 1 13 | 4 26 | 2 20 | 15 55 | 0 43 | 6 21 | 1 55 | 1 25 | 12 34 | 22 46 | 22 56 | 24 3 | | n.a. |
| T 16 | 13 31 | 15 21 | 2 16 | 7 31 | 0 30 | 20 56 | 2 32 | 16 40 | 1 23 | 12 38 | 1 13 | 4 23 | 2 19 | 15 54 | 0 43 | 6 22 | 1 55 | 1 25 | 12 33 | 22 47 | 22 56 | 24 4 | | n.a. |
| F 17 | 13 10 | 10 24 | 3 15 | 6 40 | 0 43 | 20 58 | 2 26 | 16 50 | 1 23 | 12 38 | 1 14 | 4 20 | 2 19 | 15 53 | 0 43 | 6 22 | 1 55 | 1 26 | 12 33 | 22 47 | 22 56 | 24 5 | | n.a. |
| S 18 | 12 50 | 4 52 | 4 6 | 5 51 | 0 56 | 20 59 | 2 21 | 17 1 | 1 23 | 12 38 | 1 14 | 4 17 | 2 19 | 15 52 | 0 43 | 6 23 | 1 55 | 1 26 | 12 33 | 22 48 | 22 57 | 24 6 | | n.a. |
| S 19 | 12 29 | 1s 0 | 4 43 | 5 3 | 1 9 | 21 0 | 2 15 | 17 11 | 1 24 | 12 39 | 1 14 | 4 14 | 2 19 | 15 51 | 0 43 | 6 23 | 1 55 | 1 27 | 12 33 | 22 49 | 22 57 | 24 6 | | n.a. |
| M20 | 12 9 | 6 53 | 5 4 | 4 16 | 1 23 | 21 0 | 2 10 | 17 21 | 1 24 | 12 39 | 1 14 | 4 11 | 2 19 | 15 50 | 0 43 | 6 24 | 1 55 | 1 27 | 12 32 | 22 49 | 22 57 | 24 7 | | n.a. |
| T 21 | 11 48 | 12 29 | 5 8 | 3 32 | 1 36 | 20 59 | 2 4 | 17 32 | 1 24 | 12 39 | 1 14 | 4 8 | 2 19 | 15 48 | 0 43 | 6 25 | 1 55 | 1 28 | 12 32 | 22 50 | 22 58 | 24 8 | | n.a. |
| W22 | 11 27 | 17 28 | 4 53 | 2 50 | 1 49 | 20 58 | 1 59 | 17 42 | 1 24 | 12 39 | 1 14 | 4 5 | 2 19 | 15 47 | 0 43 | 6 25 | 1 55 | 1 28 | 12 32 | 22 51 | 22 58 | 24 9 | | n.a. |
| T 23 | 11 5 | 21 30 | 4 20 | 2 11 | 2 1 | 20 57 | 1 53 | 17 52 | 1 24 | 12 39 | 1 15 | 4 2 | 2 19 | 15 46 | 0 43 | 6 26 | 1 55 | 1 29 | 12 31 | 22 51 | 22 58 | 24 9 | | n.a. |
| F 24 | 10 44 | 24 15 | 3 31 | 1 34 | 2 14 | 20 55 | 1 48 | 18 2 | 1 24 | 12 39 | 1 15 | 3 59 | 2 19 | 15 45 | 0 43 | 6 27 | 1 55 | 1 29 | 12 31 | 22 51 | 22 59 | 24 10 | | n.a. |
| S 25 | 10 22 | 25 27 | 2 29 | 1 0 | 2 25 | 20 52 | 1 43 | 18 12 | 1 25 | 12 39 | 1 15 | 3 56 | 2 19 | 15 44 | 0 43 | 6 27 | 1 55 | 1 30 | 12 31 | 22 51 | 22 59 | 24 11 | | n.a. |
| S 26 | 10 1 | 25 1 | 1 19 | 0 30 | 2 36 | 20 49 | 1 37 | 18 22 | 1 25 | 12 38 | 1 15 | 3 53 | 2 19 | 15 43 | 0 43 | 6 28 | 1 55 | 1 30 | 12 31 | 22 51 | 22 59 | 24 12 | | n.a. |
| M27 | 9 39 | 23 0 | 0 4 | 0 3 | 2 47 | 20 45 | 1 32 | 18 32 | 1 25 | 12 38 | 1 15 | 3 50 | 2 18 | 15 42 | 0 43 | 6 29 | 1 55 | 1 31 | 12 30 | 22 51 | 23 0 | 24 12 | | n.a. |
| T 28 | 9s17 | 19s37 | 1n10 | 0n20 | 2n56 | 20s41 | 1n27 | 18n41 | 1n25 | 12s38 | 1n15 | 3s47 | 2s18 | 15s41 | 0s43 | 6n29 | 1s55 | 1n31 | 12s30 | 22s51 | 23s 0 | 24n13 | | n.a. |

Julian Day Number = 1687120.5, Delta T = 03h12m25s
Ecliptic obliquity = 23°42'26, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°21'42, Lahiri = - 5°14'42 Julian Calendar 1 Feb. 94 BCE == Greg. Calendar 30 Jan. 094 BCE

The year -93 astronomical counting style corresponds to year 094 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 94 BCE
# geocentric

## MARCH 94 BCE (-93) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 10 21 21 | 7♓20'43 | 11♒59 | 24♓36 | 21♑40 | 18♉22 | 6°R24 | 25♓59 | 19♒58 | 20♈58 | 4♉56 | 14°R59 | 13♑36 | 2♊38 | n.a. | W 1 |
| T 2 | 10 25 17 | 8°19'53 | 25°36 | 24°57 | 22°45 | 18°56 | 6♏23 | 26° 6 | 20° 1 | 21° 0 | 4°57 | 14♑54 | 13°33 | 2°44 | n.a. | T 2 |
| F 3 | 10 29 14 | 9°19'01 | 9♓ 1 | 25°11 | 23°50 | 19°30 | 6°22 | 26°14 | 20° 4 | 21° 1 | 4°58 | 14°46 | 13°30 | 2°51 | n.a. | F 3 |
| S 4 | 10 33 10 | 10°18'06 | 22°11 | 25°R17 | 24°55 | 20° 4 | 6°21 | 26°21 | 20° 8 | 21° 3 | 4°59 | 14°37 | 13°27 | 2°58 | n.a. | S 4 |
| S 5 | 10 37 7 | 11°17'10 | 5♈ 5 | 25°17 | 26° 0 | 20°38 | 6°19 | 26°29 | 20°11 | 21° 5 | 5° 0 | 14°26 | 13°23 | 3° 4 | n.a. | S 5 |
| M 6 | 10 41 3 | 12°16'11 | 17°42 | 25°10 | 27° 6 | 21°12 | 6°17 | 26°36 | 20°14 | 21° 7 | 5° 1 | 14°16 | 13°20 | 3°11 | n.a. | M 6 |
| T 7 | 10 45 0 | 13°15'10 | 0♉ 3 | 24°56 | 28°11 | 21°46 | 6°15 | 26°44 | 20°18 | 21° 9 | 5° 1 | 14° 7 | 13°17 | 3°18 | n.a. | T 7 |
| W 8 | 10 48 57 | 14°14'06 | 12°10 | 24°36 | 29°17 | 22°20 | 6°13 | 26°52 | 20°21 | 21°11 | 5° 2 | 14° 0 | 13°14 | 3°24 | n.a. | W 8 |
| T 9 | 10 52 53 | 15°13'00 | 24° 8 | 24°10 | 0♒23 | 22°54 | 6°11 | 26°59 | 20°24 | 21°12 | 5° 3 | 13°56 | 13°11 | 3°31 | n.a. | T 9 |
| F 10 | 10 56 50 | 16°11'52 | 5♊59 | 23°39 | 1°29 | 23°28 | 6° 8 | 27° 7 | 20°27 | 21°14 | 5° 4 | 13°53 | 13° 7 | 3°38 | n.a. | F 10 |
| S 11 | 11 0 46 | 17°10'42 | 17°48 | 23° 4 | 2°36 | 24° 2 | 6° 6 | 27°15 | 20°30 | 21°16 | 5° 5 | 13°D53 | 13° 4 | 3°45 | n.a. | S 11 |
| S 12 | 11 4 43 | 18° 9'29 | 29°42 | 22°25 | 3°42 | 24°37 | 6° 3 | 27°22 | 20°33 | 21°18 | 5° 6 | 13°53 | 13° 1 | 3°51 | n.a. | S 12 |
| M13 | 11 8 39 | 19° 8'14 | 11♋45 | 21°43 | 4°49 | 25°11 | 6° 0 | 27°30 | 20°37 | 21°20 | 5° 7 | 13°R53 | 12°58 | 3°58 | n.a. | M13 |
| T 14 | 11 12 36 | 20° 6'57 | 24° 2 | 21° 0 | 5°55 | 25°46 | 5°56 | 27°38 | 20°40 | 21°22 | 5° 8 | 13°53 | 12°55 | 4° 5 | n.a. | T 14 |
| W15 | 11 16 32 | 21° 5'37 | 6♌38 | 20°15 | 7° 2 | 26°20 | 5°53 | 27°45 | 20°43 | 21°24 | 5° 9 | 13°51 | 12°52 | 4°11 | n.a. | W15 |
| T 16 | 11 20 29 | 22° 4'15 | 19°37 | 19°30 | 8° 9 | 26°54 | 5°49 | 27°53 | 20°46 | 21°26 | 5°10 | 13°46 | 12°48 | 4°18 | n.a. | T 16 |
| F 17 | 11 24 26 | 23° 2'50 | 2♍58 | 18°45 | 9°16 | 27°29 | 5°46 | 28° 1 | 20°49 | 21°28 | 5°11 | 13°39 | 12°45 | 4°25 | n.a. | F 17 |
| S 18 | 11 28 22 | 24° 1'24 | 16°44 | 18° 2 | 10°24 | 28° 4 | 5°42 | 28° 8 | 20°52 | 21°30 | 5°12 | 13°29 | 12°42 | 4°31 | n.a. | S 18 |
| S 19 | 11 32 19 | 24°59'55 | 0♎49 | 17°20 | 11°31 | 28°38 | 5°38 | 28°16 | 20°55 | 21°32 | 5°13 | 13°19 | 12°39 | 4°38 | n.a. | S 19 |
| M20 | 11 36 15 | 25°58'25 | 15° 9 | 16°42 | 12°38 | 29°13 | 5°33 | 28°24 | 20°58 | 21°34 | 5°14 | 13° 8 | 12°36 | 4°45 | n.a. | M20 |
| T 21 | 11 40 12 | 26°56'53 | 29°39 | 16° 7 | 13°46 | 29°48 | 5°29 | 28°32 | 21° 1 | 21°36 | 5°15 | 12°58 | 12°32 | 4°51 | n.a. | T 21 |
| W22 | 11 44 8 | 27°55'18 | 14♏10 | 15°36 | 14°54 | 0♊22 | 5°25 | 28°39 | 21° 4 | 21°38 | 5°17 | 12°50 | 12°29 | 4°58 | n.a. | W22 |
| T 23 | 11 48 5 | 28°53'43 | 28°38 | 15° 9 | 16° 2 | 0°57 | 5°20 | 28°47 | 21° 7 | 21°41 | 5°18 | 12°44 | 12°26 | 5° 5 | n.a. | T 23 |
| F 24 | 11 52 1 | 29°52'05 | 12♐59 | 14°46 | 17°10 | 1°32 | 5°15 | 28°55 | 21° 9 | 21°43 | 5°19 | 12°41 | 12°23 | 5°11 | n.a. | F 24 |
| S 25 | 11 55 58 | 0♈50'26 | 27° 8 | 14°28 | 18°18 | 2° 7 | 5°10 | 29° 2 | 21°12 | 21°45 | 5°20 | 12°D40 | 12°20 | 5°18 | n.a. | S 25 |
| S 26 | 11 59 55 | 1°48'46 | 11♑ 6 | 14°15 | 19°26 | 2°42 | 5° 5 | 29°10 | 21°15 | 21°47 | 5°21 | 12°R41 | 12°17 | 5°25 | n.a. | S 26 |
| M27 | 12 3 51 | 2°47'03 | 24°52 | 14° 7 | 20°34 | 3°17 | 5° 0 | 29°18 | 21°18 | 21°49 | 5°22 | 12°40 | 12°13 | 5°31 | n.a. | M27 |
| T 28 | 12 7 48 | 3°45'20 | 8♒27 | 14°D 4 | 21°43 | 3°52 | 4°54 | 29°26 | 21°21 | 21°51 | 5°23 | 12°38 | 12°10 | 5°38 | n.a. | T 28 |
| W29 | 12 11 44 | 4°43'34 | 21°52 | 14° 6 | 22°51 | 4°27 | 4°49 | 29°33 | 21°23 | 21°53 | 5°25 | 12°34 | 12° 7 | 5°45 | n.a. | W29 |
| T 30 | 12 15 41 | 5°41'47 | 5♓ 5 | 14°13 | 24° 0 | 5° 2 | 4°43 | 29°41 | 21°26 | 21°56 | 5°26 | 12°26 | 12° 4 | 5°51 | n.a. | T 30 |
| F 31 | 12 19 37 | 6♈39'58 | 18♓ 7 | 14♓25 | 25♒ 9 | 5♊37 | 4♏37 | 29♓49 | 21♒29 | 21♈58 | 5♉27 | 12♑16 | 12♑ 1 | 5♊58 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| W 1 | 8s55 | 15s 9 | 2n20 | 0n39 | 3n 5 | 20s36 | 1n22 | 18n51 | 1n25 | 12s37 | 1n15 | 3s44 | 2s18 | 15s40 | 0s43 | 6n30 | 1s55 | 1n32 | 12s30 | 22s51 | 23s 0 | 24n14 | | | n.a. |
| T 2 | 8 32 | 10 0 | 3 20 | 0 54 | 3 12 | 20 31 | 1 16 | 19 1 | 1 25 | 12 37 | 1 16 | 3 41 | 2 18 | 15 39 | 0 43 | 6 31 | 1 55 | 1 32 | 12 30 | 22 52 | 23 1 | 24 14 | | | n.a. |
| F 3 | 8 10 | 4 27 | 4 8 | 1 6 | 3 19 | 20 25 | 1 11 | 19 10 | 1 25 | 12 36 | 1 16 | 3 37 | 2 18 | 15 38 | 0 43 | 6 31 | 1 55 | 1 33 | 12 29 | 22 53 | 23 1 | 24 15 | | | n.a. |
| S 4 | 7 47 | 1n11 | 4 42 | 1 13 | 3 24 | 20 18 | 1 6 | 19 19 | 1 25 | 12 36 | 1 16 | 3 34 | 2 18 | 15 37 | 0 43 | 6 32 | 1 55 | 1 33 | 12 29 | 22 54 | 23 1 | 24 16 | | | n.a. |
| S 5 | 7 25 | 6 38 | 5 1 | 1 16 | 3 27 | 20 11 | 1 1 | 19 29 | 1 25 | 12 35 | 1 16 | 3 31 | 2 18 | 15 36 | 0 43 | 6 33 | 1 55 | 1 34 | 12 29 | 22 55 | 23 2 | 24 17 | | | n.a. |
| M 6 | 7 2 | 11 41 | 5 4 | 1 15 | 3 29 | 20 3 | 0 56 | 19 38 | 1 26 | 12 34 | 1 16 | 3 28 | 2 18 | 15 35 | 0 43 | 6 34 | 1 55 | 1 34 | 12 29 | 22 56 | 23 2 | 24 17 | | | n.a. |
| T 7 | 6 39 | 16 11 | 4 53 | 1 10 | 3 30 | 19 55 | 0 51 | 19 47 | 1 26 | 12 33 | 1 16 | 3 25 | 2 18 | 15 34 | 0 43 | 6 34 | 1 54 | 1 35 | 12 28 | 22 57 | 23 2 | 24 18 | | | n.a. |
| W 8 | 6 16 | 19 55 | 4 29 | 1 1 | 3 29 | 19 47 | 0 46 | 19 56 | 1 26 | 12 33 | 1 16 | 3 22 | 2 18 | 15 33 | 0 43 | 6 35 | 1 54 | 1 35 | 12 28 | 22 58 | 23 2 | 24 19 | | | n.a. |
| T 9 | 5 53 | 22 47 | 3 54 | 0 49 | 3 27 | 19 37 | 0 41 | 20 5 | 1 26 | 12 32 | 1 16 | 3 19 | 2 18 | 15 32 | 0 43 | 6 36 | 1 54 | 1 36 | 12 28 | 22 58 | 23 3 | 24 19 | | | n.a. |
| F 10 | 5 30 | 24 38 | 3 8 | 0 33 | 3 22 | 19 28 | 0 36 | 20 14 | 1 26 | 12 31 | 1 17 | 3 16 | 2 18 | 15 31 | 0 43 | 6 37 | 1 54 | 1 36 | 12 28 | 22 58 | 23 3 | 24 20 | | | n.a. |
| S 11 | 5 7 | 25 22 | 2 15 | 0 13 | 3 17 | 19 17 | 0 32 | 20 23 | 1 26 | 12 30 | 1 17 | 3 13 | 2 18 | 15 30 | 0 43 | 6 37 | 1 54 | 1 37 | 12 27 | 22 58 | 23 3 | 24 20 | | | n.a. |
| S 12 | 4 44 | 24 57 | 1 15 | 0s 9 | 3 9 | 19 6 | 0 27 | 20 31 | 1 26 | 12 29 | 1 17 | 3 10 | 2 18 | 15 29 | 0 43 | 6 38 | 1 54 | 1 37 | 12 27 | 22 58 | 23 4 | 24 21 | | | n.a. |
| M13 | 4 21 | 23 22 | 0 11 | 0 34 | 3 0 | 18 55 | 0 22 | 20 40 | 1 26 | 12 28 | 1 17 | 3 7 | 2 18 | 15 28 | 0 43 | 6 39 | 1 54 | 1 38 | 12 27 | 22 58 | 23 4 | 24 22 | | | n.a. |
| T 14 | 3 57 | 20 40 | 0s54 | 1 1 | 2 50 | 18 43 | 0 18 | 20 48 | 1 26 | 12 26 | 1 17 | 3 3 | 2 18 | 15 27 | 0 43 | 6 40 | 1 54 | 1 38 | 12 27 | 22 58 | 23 4 | 24 22 | | | n.a. |
| W15 | 3 34 | 16 55 | 1 58 | 1 29 | 2 38 | 18 30 | 0 13 | 20 57 | 1 26 | 12 25 | 1 17 | 3 0 | 2 18 | 15 26 | 0 43 | 6 40 | 1 54 | 1 39 | 12 27 | 22 59 | 23 5 | 24 23 | | | n.a. |
| T 16 | 3 11 | 12 17 | 2 58 | 1 59 | 2 25 | 18 17 | 0 9 | 21 5 | 1 26 | 12 24 | 1 17 | 2 57 | 2 18 | 15 25 | 0 43 | 6 41 | 1 54 | 1 39 | 12 26 | 22 59 | 23 5 | 24 23 | | | n.a. |
| F 17 | 2 47 | 6 57 | 3 50 | 2 29 | 2 11 | 18 4 | 0 4 | 21 13 | 1 26 | 12 23 | 1 17 | 2 54 | 2 18 | 15 24 | 0 43 | 6 42 | 1 54 | 1 40 | 12 26 | 23 0 | 23 5 | 24 24 | | | n.a. |
| S 18 | 2 24 | 1 10 | 4 30 | 3 0 | 1 57 | 17 50 | 0s 0 | 21 21 | 1 26 | 12 21 | 1 17 | 2 51 | 2 18 | 15 23 | 0 43 | 6 43 | 1 54 | 1 40 | 12 26 | 23 1 | 23 6 | 24 25 | | | n.a. |
| S 19 | 2 1 | 4s49 | 4 55 | 3 30 | 1 41 | 17 35 | 0 4 | 21 29 | 1 26 | 12 20 | 1 17 | 2 48 | 2 18 | 15 22 | 0 43 | 6 44 | 1 54 | 1 41 | 12 26 | 23 2 | 23 6 | 24 25 | | | n.a. |
| M20 | 1 37 | 10 39 | 5 1 | 4 0 | 1 25 | 17 20 | 0 8 | 21 36 | 1 26 | 12 18 | 1 18 | 2 45 | 2 18 | 15 21 | 0 43 | 6 44 | 1 54 | 1 42 | 12 26 | 23 3 | 23 6 | 24 26 | | | n.a. |
| T 21 | 1 14 | 15 58 | 4 49 | 4 29 | 1 9 | 17 5 | 0 13 | 21 44 | 1 26 | 12 17 | 1 18 | 2 42 | 2 18 | 15 20 | 0 43 | 6 45 | 1 54 | 1 42 | 12 25 | 23 4 | 23 6 | 24 26 | | | n.a. |
| W22 | 0 50 | 20 22 | 4 18 | 4 56 | 0 53 | 16 49 | 0 17 | 21 52 | 1 26 | 12 15 | 1 18 | 2 39 | 2 18 | 15 19 | 0 43 | 6 46 | 1 54 | 1 43 | 12 25 | 23 5 | 23 7 | 24 27 | | | n.a. |
| T 23 | 0 27 | 23 30 | 3 31 | 5 21 | 0 37 | 16 32 | 0 21 | 21 59 | 1 26 | 12 13 | 1 18 | 2 35 | 2 18 | 15 18 | 0 43 | 6 47 | 1 54 | 1 43 | 12 25 | 23 5 | 23 7 | 24 28 | | | n.a. |
| F 24 | 0 3 | 25 6 | 2 30 | 5 45 | 0 20 | 16 15 | 0 24 | 22 6 | 1 26 | 12 12 | 1 18 | 2 32 | 2 18 | 15 17 | 0 43 | 6 48 | 1 54 | 1 44 | 12 25 | 23 6 | 23 7 | 24 28 | | | n.a. |
| S 25 | 0n20 | 25 2 | 1 21 | 6 7 | 0 4 | 15 58 | 0 28 | 22 13 | 1 26 | 12 10 | 1 18 | 2 29 | 2 18 | 15 16 | 0 43 | 6 49 | 1 54 | 1 44 | 12 25 | 23 6 | 23 8 | 24 29 | | | n.a. |
| S 26 | 0 44 | 23 23 | 0 8 | 6 26 | 0s11 | 15 40 | 0 32 | 22 20 | 1 26 | 12 8 | 1 18 | 2 26 | 2 18 | 15 16 | 0 43 | 6 49 | 1 54 | 1 45 | 12 24 | 23 6 | 23 8 | 24 29 | | | n.a. |
| M27 | 1 7 | 20 21 | 1n 4 | 6 43 | 0 26 | 15 21 | 0 36 | 22 27 | 1 26 | 12 6 | 1 18 | 2 23 | 2 18 | 15 15 | 0 43 | 6 50 | 1 54 | 1 45 | 12 24 | 23 6 | 23 8 | 24 30 | | | n.a. |
| T 28 | 1 31 | 16 14 | 2 12 | 6 58 | 0 41 | 15 3 | 0 39 | 22 34 | 1 26 | 12 4 | 1 18 | 2 20 | 2 18 | 15 14 | 0 43 | 6 51 | 1 54 | 1 46 | 12 24 | 23 6 | 23 9 | 24 30 | | | n.a. |
| W29 | 1 54 | 11 22 | 3 11 | 7 10 | 0 55 | 14 43 | 0 43 | 22 41 | 1 26 | 12 3 | 1 18 | 2 17 | 2 18 | 15 13 | 0 43 | 6 52 | 1 54 | 1 46 | 12 24 | 23 6 | 23 9 | 24 31 | | | n.a. |
| T 30 | 2 17 | 6 3 | 3 59 | 7 19 | 1 8 | 14 24 | 0 46 | 22 47 | 1 26 | 12 1 | 1 18 | 2 14 | 2 18 | 15 12 | 0 43 | 6 53 | 1 54 | 1 47 | 12 24 | 23 7 | 23 9 | 24 31 | | | n.a. |
| F 31 | 2n41 | 0s33 | 4n34 | 7s26 | 1s20 | 14s 4 | 0s50 | 22n54 | 1n26 | 11s59 | 1n18 | 2s11 | 2s18 | 15s11 | 0s43 | 6n53 | 1s54 | 1n47 | 12s24 | 23s 8 | 23s 9 | 24n32 | | | n.a. |

Julian Day Number = 1687148.5, Delta T = 03h12m24s
Ecliptic obliquity = 23°42'26, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°21'38, Lahiri = - 5°14'38 Julian Calendar 1 March 94 BCE == Greg. Calendar 27 Feb. 094 BCE

The year -93 astronomical counting style corresponds to year 094 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 94 BCE
# geocentric

## APRIL 94 BCE (-93) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 23 34 | 7♈38'07 | 0♈57 | 14♓41 | 26♒17 | 6♊12 | 4°R31 | 29♓57 | 21♒31 | 22♈ 0 | 5♉28 | 12°R 4 | 11♑58 | 6♊ 5 | n.a. | S 1 |
| S 2 | 12 27 30 | 8°36'15 | 13°36 | 15° 2 | 27°26 | 6°47 | 4♏25 | 0♈ 4 | 21°34 | 22° 2 | 5°29 | 11♑50 | 11°54 | 6°11 | n.a. | S 2 |
| M 3 | 12 31 27 | 9°34'20 | 26° 1 | 15°28 | 28°35 | 7°23 | 4°19 | 0°12 | 21°37 | 22° 4 | 5°31 | 11°37 | 11°51 | 6°18 | n.a. | M 3 |
| T 4 | 12 35 23 | 10°32'24 | 8♉14 | 15°57 | 29°44 | 7°58 | 4°12 | 0°20 | 21°39 | 22° 6 | 5°32 | 11°25 | 11°48 | 6°25 | n.a. | T 4 |
| W 5 | 12 39 20 | 11°30'26 | 20°17 | 16°31 | 0♓53 | 8°33 | 4° 6 | 0°27 | 21°42 | 22° 9 | 5°33 | 11°15 | 11°45 | 6°31 | n.a. | W 5 |
| T 6 | 12 43 17 | 12°28'27 | 2♊11 | 17° 9 | 2° 2 | 9° 9 | 3°59 | 0°35 | 21°44 | 22°11 | 5°34 | 11° 8 | 11°42 | 6°38 | n.a. | T 6 |
| F 7 | 12 47 13 | 13°26'25 | 14° 0 | 17°50 | 3°12 | 9°44 | 3°53 | 0°42 | 21°46 | 22°13 | 5°36 | 11° 3 | 11°38 | 6°45 | n.a. | F 7 |
| S 8 | 12 51 10 | 14°24'22 | 25°48 | 18°35 | 4°21 | 10°19 | 3°46 | 0°50 | 21°49 | 22°15 | 5°37 | 11° 1 | 11°35 | 6°51 | n.a. | S 8 |
| S 9 | 12 55 6 | 15°22'16 | 7♋40 | 19°24 | 5°30 | 10°55 | 3°39 | 0°58 | 21°51 | 22°18 | 5°38 | 11° 1 | 11°32 | 6°58 | n.a. | S 9 |
| M10 | 12 59 3 | 16°20'09 | 19°42 | 20°16 | 6°40 | 11°30 | 3°32 | 1° 5 | 21°54 | 22°20 | 5°40 | 11° 1 | 11°29 | 7° 5 | n.a. | M10 |
| T 11 | 13 2 59 | 17°18'00 | 1♌58 | 21°11 | 7°49 | 12° 6 | 3°25 | 1°13 | 21°56 | 22°22 | 5°41 | 11° 0 | 11°26 | 7°11 | n.a. | T 11 |
| W12 | 13 6 56 | 18°15'49 | 14°35 | 22°10 | 8°59 | 12°41 | 3°18 | 1°20 | 21°58 | 22°24 | 5°42 | 10°58 | 11°23 | 7°18 | n.a. | W12 |
| T 13 | 13 10 52 | 19°13'36 | 27°35 | 23°11 | 10° 8 | 13°17 | 3°11 | 1°28 | 22° 0 | 22°27 | 5°44 | 10°53 | 11°19 | 7°25 | n.a. | T 13 |
| F 14 | 13 14 49 | 20°11'21 | 11♍ 3 | 24°15 | 11°18 | 13°52 | 3° 4 | 1°35 | 22° 3 | 22°29 | 5°45 | 10°46 | 11°16 | 7°31 | n.a. | F 14 |
| S 15 | 13 18 46 | 21° 9'05 | 24°58 | 25°22 | 12°28 | 14°28 | 2°57 | 1°43 | 22° 5 | 22°31 | 5°46 | 10°37 | 11°13 | 7°38 | n.a. | S 15 |
| S 16 | 13 22 42 | 22° 6'47 | 9♎19 | 26°32 | 13°38 | 15° 4 | 2°49 | 1°50 | 22° 7 | 22°33 | 5°48 | 10°27 | 11°10 | 7°45 | n.a. | S 16 |
| M17 | 13 26 39 | 23° 4'27 | 23°59 | 27°45 | 14°48 | 15°39 | 2°42 | 1°58 | 22° 9 | 22°36 | 5°49 | 10°16 | 11° 7 | 7°51 | n.a. | M17 |
| T 18 | 13 30 35 | 24° 2'06 | 8♏52 | 29° 0 | 15°58 | 16°15 | 2°34 | 2° 5 | 22°11 | 22°38 | 5°50 | 10° 6 | 11° 3 | 7°58 | n.a. | T 18 |
| W19 | 13 34 32 | 24°59'44 | 23°48 | 0♈18 | 17° 8 | 16°51 | 2°27 | 2°12 | 22°13 | 22°40 | 5°52 | 9°57 | 11° 0 | 8° 5 | n.a. | W19 |
| T 20 | 13 38 28 | 25°57'21 | 8♐38 | 1°38 | 18°18 | 17°27 | 2°19 | 2°20 | 22°15 | 22°42 | 5°53 | 9°52 | 10°57 | 8°11 | n.a. | T 20 |
| F 21 | 13 42 25 | 26°54'56 | 23°17 | 3° 1 | 19°28 | 18° 2 | 2°12 | 2°27 | 22°17 | 22°45 | 5°54 | 9°49 | 10°54 | 8°18 | n.a. | F 21 |
| S 22 | 13 46 21 | 27°52'31 | 7♑38 | 4°26 | 20°38 | 18°38 | 2° 4 | 2°34 | 22°19 | 22°47 | 5°56 | 9°D48 | 10°51 | 8°25 | n.a. | S 22 |
| S 23 | 13 50 18 | 28°50'04 | 21°41 | 5°54 | 21°48 | 19°14 | 1°57 | 2°42 | 22°20 | 22°49 | 5°57 | 9°48 | 10°48 | 8°31 | n.a. | S 23 |
| M24 | 13 54 15 | 29°47'36 | 5♒25 | 7°24 | 22°58 | 19°50 | 1°49 | 2°49 | 22°22 | 22°51 | 5°58 | 9°R48 | 10°44 | 8°38 | n.a. | M24 |
| T 25 | 13 58 11 | 0♉45'08 | 18°52 | 8°56 | 24° 9 | 20°26 | 1°42 | 2°56 | 22°24 | 22°54 | 6° 0 | 9°47 | 10°41 | 8°45 | n.a. | T 25 |
| W26 | 14 2 8 | 1°42'38 | 2♓ 2 | 10°31 | 25°19 | 21° 2 | 1°34 | 3° 3 | 22°26 | 22°56 | 6° 1 | 9°44 | 10°38 | 8°51 | n.a. | W26 |
| T 27 | 14 6 4 | 2°40'08 | 14°59 | 12° 8 | 26°30 | 21°38 | 1°26 | 3°10 | 22°27 | 22°58 | 6° 2 | 9°37 | 10°35 | 8°58 | n.a. | T 27 |
| F 28 | 14 10 1 | 3°37'36 | 27°42 | 13°47 | 27°40 | 22°14 | 1°19 | 3°17 | 22°29 | 23° 0 | 6° 4 | 9°29 | 10°32 | 9° 5 | n.a. | F 28 |
| S 29 | 14 13 57 | 4°35'04 | 10♈15 | 15°29 | 28°51 | 22°50 | 1°11 | 3°24 | 22°30 | 23° 2 | 6° 5 | 9°18 | 10°29 | 9°11 | n.a. | S 29 |
| S 30 | 14 17 54 | 5♉32'30 | 22♈36 | 17♈13 | 0♈ 1 | 23♊26 | 1♏ 3 | 3♈31 | 22♒32 | 23♈ 5 | 6♉ 6 | 9♑ 7 | 10♑25 | 9♊18 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| S 1 | 3n 4 | 4n53 | 4n54 | 7s30 | 1s32 | 13s43 | 0s53 | 23n 0 | 1n26 | 11s56 | 1n18 | 2s 8 | 2s18 | 15s10 | 0s43 | 6n54 | 1s54 | 1n48 | 12s23 | 23s 9 | 23s10 | 24n32 | | n.a. | |
| S 2 | 3 27 | 10 1 | 5 0 | 7 32 | 1 43 | 13 22 | 0 56 | 23 6 | 1 26 | 11 54 | 1 18 | 2 5 | 2 18 | 15 10 | 0 44 | 6 55 | 1 54 | 1 49 | 12 23 | 23 10 | 23 10 | 24 33 | | n.a. | |
| M 3 | 3 50 | 14 40 | 4 51 | 7 32 | 1 53 | 13 1 | 0 59 | 23 12 | 1 26 | 11 52 | 1 18 | 2 2 | 2 18 | 15 9 | 0 44 | 6 56 | 1 54 | 1 49 | 12 23 | 23 12 | 23 10 | 24 33 | | n.a. | |
| T 4 | 4 13 | 18 38 | 4 28 | 7 29 | 2 3 | 12 40 | 1 2 | 23 18 | 1 26 | 11 50 | 1 18 | 1 58 | 2 18 | 15 8 | 0 44 | 6 57 | 1 54 | 1 50 | 12 23 | 23 13 | 23 11 | 24 34 | | n.a. | |
| W 5 | 4 36 | 21 46 | 3 54 | 7 24 | 2 12 | 12 18 | 1 5 | 23 23 | 1 26 | 11 48 | 1 18 | 1 55 | 2 18 | 15 7 | 0 44 | 6 58 | 1 54 | 1 50 | 12 23 | 23 13 | 23 11 | 24 34 | | n.a. | |
| T 6 | 4 59 | 23 56 | 3 10 | 7 16 | 2 20 | 11 55 | 1 8 | 23 29 | 1 26 | 11 46 | 1 18 | 1 52 | 2 18 | 15 6 | 0 44 | 6 59 | 1 54 | 1 51 | 12 23 | 23 14 | 23 11 | 24 35 | | n.a. | |
| F 7 | 5 22 | 25 1 | 2 18 | 7 6 | 2 27 | 11 32 | 1 11 | 23 34 | 1 26 | 11 43 | 1 18 | 1 49 | 2 18 | 15 6 | 0 44 | 6 59 | 1 54 | 1 51 | 12 23 | 23 14 | 23 11 | 24 35 | | n.a. | |
| S 8 | 5 44 | 24 58 | 1 20 | 6 54 | 2 33 | 11 9 | 1 13 | 23 40 | 1 26 | 11 41 | 1 19 | 1 46 | 2 18 | 15 5 | 0 44 | 7 0 | 1 54 | 1 52 | 12 22 | 23 15 | 23 12 | 24 35 | | n.a. | |
| S 9 | 6 7 | 23 47 | 0 18 | 6 40 | 2 39 | 10 46 | 1 16 | 23 45 | 1 26 | 11 39 | 1 19 | 1 43 | 2 18 | 15 4 | 0 44 | 7 1 | 1 54 | 1 52 | 12 22 | 23 15 | 23 12 | 24 36 | | n.a. | |
| M10 | 6 30 | 21 29 | 0s46 | 6 24 | 2 44 | 10 22 | 1 18 | 23 50 | 1 26 | 11 36 | 1 19 | 1 40 | 2 18 | 15 3 | 0 44 | 7 2 | 1 54 | 1 53 | 12 22 | 23 15 | 23 12 | 24 36 | | n.a. | |
| T 11 | 6 52 | 18 11 | 1 49 | 6 6 | 2 48 | 9 59 | 1 21 | 23 55 | 1 26 | 11 34 | 1 18 | 1 37 | 2 18 | 15 3 | 0 44 | 7 3 | 1 54 | 1 53 | 12 22 | 23 15 | 23 13 | 24 37 | | n.a. | |
| W12 | 7 14 | 13 58 | 2 48 | 5 46 | 2 52 | 9 34 | 1 23 | 23 59 | 1 26 | 11 32 | 1 18 | 1 34 | 2 18 | 15 2 | 0 44 | 7 4 | 1 54 | 1 54 | 12 22 | 23 15 | 23 13 | 24 37 | | n.a. | |
| T 13 | 7 36 | 9 0 | 3 40 | 5 24 | 2 54 | 9 10 | 1 25 | 24 4 | 1 26 | 11 29 | 1 18 | 1 32 | 2 19 | 15 1 | 0 44 | 7 4 | 1 54 | 1 54 | 12 22 | 23 15 | 23 13 | 24 38 | | n.a. | |
| F 14 | 7 59 | 3 28 | 4 22 | 5 0 | 2 56 | 8 45 | 1 27 | 24 8 | 1 25 | 11 27 | 1 18 | 1 29 | 2 19 | 15 1 | 0 44 | 7 5 | 1 54 | 1 55 | 12 22 | 23 16 | 23 13 | 24 38 | | n.a. | |
| S 15 | 8 20 | 2s25 | 4 50 | 4 34 | 2 58 | 8 20 | 1 29 | 24 12 | 1 25 | 11 24 | 1 18 | 1 26 | 2 19 | 15 0 | 0 44 | 7 6 | 1 54 | 1 55 | 12 22 | 23 17 | 23 14 | 24 38 | | n.a. | |
| S 16 | 8 42 | 8 20 | 5 1 | 4 7 | 2 59 | 7 55 | 1 31 | 24 16 | 1 25 | 11 22 | 1 18 | 1 23 | 2 19 | 14 59 | 0 44 | 7 7 | 1 54 | 1 56 | 12 22 | 23 17 | 23 14 | 24 39 | | n.a. | |
| M17 | 9 4 | 13 56 | 4 53 | 3 38 | 2 59 | 7 29 | 1 33 | 24 20 | 1 25 | 11 19 | 1 18 | 1 20 | 2 19 | 14 59 | 0 44 | 7 8 | 1 54 | 1 56 | 12 21 | 23 18 | 23 14 | 24 39 | | n.a. | |
| T 18 | 9 25 | 18 47 | 4 25 | 3 7 | 2 58 | 7 3 | 1 35 | 24 24 | 1 25 | 11 17 | 1 18 | 1 17 | 2 19 | 14 58 | 0 44 | 7 9 | 1 54 | 1 57 | 12 21 | 23 19 | 23 14 | 24 40 | | n.a. | |
| W19 | 9 47 | 22 27 | 3 38 | 2 35 | 2 57 | 6 37 | 1 37 | 24 28 | 1 25 | 11 14 | 1 18 | 1 14 | 2 19 | 14 57 | 0 44 | 7 10 | 1 54 | 1 57 | 12 21 | 23 20 | 23 15 | 24 40 | | n.a. | |
| T 20 | 10 8 | 24 35 | 2 37 | 2 1 | 2 55 | 6 11 | 1 38 | 24 31 | 1 25 | 11 12 | 1 18 | 1 11 | 2 19 | 14 57 | 0 44 | 7 10 | 1 54 | 1 58 | 12 21 | 23 20 | 23 15 | 24 40 | | n.a. | |
| F 21 | 10 29 | 24 58 | 1 27 | 1 25 | 2 52 | 5 44 | 1 40 | 24 34 | 1 25 | 11 9 | 1 18 | 1 8 | 2 19 | 14 56 | 0 44 | 7 11 | 1 54 | 1 58 | 12 21 | 23 20 | 23 15 | 24 41 | | n.a. | |
| S 22 | 10 50 | 23 41 | 0 12 | 0 48 | 2 49 | 5 18 | 1 41 | 24 37 | 1 25 | 11 6 | 1 18 | 1 6 | 2 19 | 14 56 | 0 44 | 7 12 | 1 54 | 1 59 | 12 21 | 23 20 | 23 15 | 24 41 | | n.a. | |
| S 23 | 11 11 | 20 54 | 1n 3 | 0 10 | 2 45 | 4 51 | 1 42 | 24 40 | 1 25 | 11 4 | 1 18 | 1 3 | 2 19 | 14 55 | 0 44 | 7 13 | 1 54 | 1 59 | 12 21 | 23 20 | 23 16 | 24 41 | | n.a. | |
| M24 | 11 31 | 17 0 | 2 12 | 0n30 | 2 41 | 4 24 | 1 44 | 24 43 | 1 25 | 11 1 | 1 18 | 1 0 | 2 20 | 14 54 | 0 44 | 7 14 | 1 54 | 2 0 | 12 21 | 23 20 | 23 16 | 24 42 | | n.a. | |
| T 25 | 11 52 | 12 18 | 3 12 | 1 11 | 2 36 | 3 57 | 1 45 | 24 46 | 1 25 | 10 59 | 1 18 | 0 57 | 2 20 | 14 54 | 0 44 | 7 15 | 1 54 | 2 0 | 12 21 | 23 20 | 23 16 | 24 42 | | n.a. | |
| W26 | 12 12 | 7 8 | 4 0 | 1 54 | 2 31 | 3 30 | 1 46 | 24 48 | 1 24 | 10 56 | 1 18 | 0 54 | 2 20 | 14 53 | 0 44 | 7 15 | 1 54 | 2 1 | 12 21 | 23 21 | 23 17 | 24 42 | | n.a. | |
| T 27 | 12 32 | 1 45 | 4 36 | 2 38 | 2 25 | 3 2 | 1 47 | 24 50 | 1 24 | 10 54 | 1 18 | 0 52 | 2 20 | 14 53 | 0 44 | 7 16 | 1 54 | 2 1 | 12 21 | 23 21 | 23 17 | 24 43 | | n.a. | |
| F 28 | 12 52 | 3n36 | 4 57 | 3 23 | 2 18 | 2 35 | 1 48 | 24 53 | 1 24 | 10 51 | 1 18 | 0 49 | 2 20 | 14 52 | 0 44 | 7 17 | 1 54 | 2 2 | 12 21 | 23 22 | 23 17 | 24 43 | | n.a. | |
| S 29 | 13 12 | 8 44 | 5 3 | 4 9 | 2 11 | 2 7 | 1 48 | 24 55 | 1 24 | 10 48 | 1 17 | 0 46 | 2 20 | 14 52 | 0 44 | 7 18 | 1 54 | 2 2 | 12 21 | 23 23 | 23 17 | 24 43 | | n.a. | |
| S 30 | 13n31 | 13n26 | 4n55 | 4n56 | 2s 4 | 1s39 | 1s49 | 24n56 | 1n24 | 10s46 | 1n17 | 0s44 | 2s20 | 14s51 | 0s44 | 7n19 | 1s54 | 2n 3 | 12s21 | 23s23 | 23s18 | 24n44 | | n.a. | |

Julian Day Number = 1687179.5, Delta T = 03h12m23s
Ecliptic obliquity = 23°42'26, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°21'34, Lahiri = - 5°14'33 Julian Calendar 1 Apr. 94 BCE == Greg. Calendar 30 March 094 BCE


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# ASTRODIENST EPHEMERIS for the year 94 BCE
# geocentric

## MAY 94 BCE (-93) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 14 21 50 | 6♉29'56 | 4♉48 | 18♈59 | 1♈12 | 24♊ 2 | 0°R56 | 3♈38 | 22♒33 | 23♈ 7 | 6♉ 8 | 8°R56 | 10♑22 | 9♊25 | n.a. | M 1 |
| T 2 | 14 25 47 | 7°27'20 | 16°51 | 20°47 | 2°23 | 24°38 | 0♏48 | 3°45 | 22°35 | 23° 9 | 6° 9 | 8♑45 | 10°19 | 9°31 | n.a. | T 2 |
| W 3 | 14 29 44 | 8°24'44 | 28°47 | 22°38 | 3°34 | 25°14 | 0°41 | 3°52 | 22°36 | 23°11 | 6°11 | 8°37 | 10°16 | 9°38 | n.a. | W 3 |
| T 4 | 14 33 40 | 9°22'06 | 10♊37 | 24°31 | 4°44 | 25°50 | 0°33 | 3°59 | 22°38 | 23°13 | 6°12 | 8°31 | 10°13 | 9°45 | n.a. | T 4 |
| F 5 | 14 37 37 | 10°19'28 | 22°24 | 26°27 | 5°55 | 26°26 | 0°26 | 4° 6 | 22°39 | 23°16 | 6°13 | 8°27 | 10° 9 | 9°51 | n.a. | F 5 |
| S 6 | 14 41 33 | 11°16'48 | 4♋12 | 28°24 | 7° 6 | 27° 2 | 0°18 | 4°12 | 22°40 | 23°18 | 6°15 | 8°D26 | 10° 6 | 9°58 | n.a. | S 6 |
| S 7 | 14 45 30 | 12°14'07 | 16° 4 | 0♌24 | 8°17 | 27°39 | 0°11 | 4°19 | 22°41 | 23°20 | 6°16 | 8°26 | 10° 3 | 10° 5 | n.a. | S 7 |
| M 8 | 14 49 26 | 13°11'25 | 28° 5 | 2°25 | 9°28 | 28°15 | 0° 4 | 4°26 | 22°43 | 23°22 | 6°17 | 8°27 | 10° 0 | 10°11 | n.a. | M 8 |
| T 9 | 14 53 23 | 14° 8'42 | 10♌20 | 4°28 | 10°39 | 28°51 | 29♎56 | 4°32 | 22°44 | 23°24 | 6°19 | 8°R27 | 9°57 | 10°18 | n.a. | T 9 |
| W10 | 14 57 19 | 15° 5'58 | 22°54 | 6°34 | 11°50 | 29°28 | 29°49 | 4°39 | 22°45 | 23°26 | 6°20 | 8°27 | 9°54 | 10°25 | n.a. | W10 |
| T 11 | 15 1 16 | 16° 3'13 | 5♍53 | 8°40 | 13° 1 | 0♋ 4 | 29°42 | 4°45 | 22°46 | 23°29 | 6°21 | 8°25 | 9°50 | 10°31 | n.a. | T 11 |
| F 12 | 15 5 13 | 17° 0'27 | 19°18 | 10°49 | 14°12 | 0°40 | 29°35 | 4°52 | 22°47 | 23°31 | 6°23 | 8°21 | 9°47 | 10°38 | n.a. | F 12 |
| S 13 | 15 9 9 | 17°57'39 | 3♎13 | 12°58 | 15°23 | 1°17 | 29°28 | 4°58 | 22°48 | 23°33 | 6°24 | 8°16 | 9°44 | 10°45 | n.a. | S 13 |
| S 14 | 15 13 6 | 18°54'51 | 17°35 | 15° 8 | 16°34 | 1°53 | 29°21 | 5° 4 | 22°49 | 23°35 | 6°25 | 8° 9 | 9°41 | 10°51 | n.a. | S 14 |
| M15 | 15 17 2 | 19°52'02 | 2♏22 | 17°19 | 17°46 | 2°29 | 29°15 | 5°11 | 22°49 | 23°37 | 6°27 | 8° 2 | 9°38 | 10°58 | n.a. | M15 |
| T 16 | 15 20 59 | 20°49'13 | 17°25 | 19°31 | 18°57 | 3° 6 | 29° 8 | 5°17 | 22°50 | 23°39 | 6°28 | 7°55 | 9°35 | 11° 5 | n.a. | T 16 |
| W17 | 15 24 55 | 21°46'23 | 2♐36 | 21°42 | 20° 8 | 3°42 | 29° 1 | 5°23 | 22°51 | 23°41 | 6°29 | 7°49 | 9°31 | 11°11 | n.a. | W17 |
| T 18 | 15 28 52 | 22°43'32 | 17°44 | 23°54 | 21°19 | 4°19 | 28°55 | 5°29 | 22°52 | 23°43 | 6°31 | 7°46 | 9°28 | 11°18 | n.a. | T 18 |
| F 19 | 15 32 48 | 23°40'42 | 2♑40 | 26° 5 | 22°31 | 4°55 | 28°48 | 5°35 | 22°52 | 23°45 | 6°32 | 7°D45 | 9°25 | 11°25 | n.a. | F 19 |
| S 20 | 15 36 45 | 24°37'51 | 17°18 | 28°16 | 23°42 | 5°32 | 28°42 | 5°41 | 22°53 | 23°47 | 6°33 | 7°45 | 9°22 | 11°31 | n.a. | S 20 |
| S 21 | 15 40 42 | 25°34'59 | 1♒33 | 0♊25 | 24°54 | 6° 8 | 28°36 | 5°47 | 22°53 | 23°49 | 6°35 | 7°46 | 9°19 | 11°38 | n.a. | S 21 |
| M22 | 15 44 38 | 26°32'08 | 15°25 | 2°34 | 26° 5 | 6°45 | 28°30 | 5°53 | 22°54 | 23°51 | 6°36 | 7°47 | 9°15 | 11°45 | n.a. | M22 |
| T 23 | 15 48 35 | 27°29'16 | 28°53 | 4°41 | 27°17 | 7°22 | 28°24 | 5°59 | 22°54 | 23°53 | 6°37 | 7°R48 | 9°12 | 11°51 | n.a. | T 23 |
| W24 | 15 52 31 | 28°26'24 | 12♓ 0 | 6°47 | 28°28 | 7°58 | 28°18 | 6° 5 | 22°55 | 23°55 | 6°39 | 7°47 | 9° 9 | 11°58 | n.a. | W24 |
| T 25 | 15 56 28 | 29°23'32 | 24°48 | 8°52 | 29°40 | 8°35 | 28°13 | 6°10 | 22°55 | 23°57 | 6°40 | 7°44 | 9° 6 | 12° 5 | n.a. | T 25 |
| F 26 | 16 0 24 | 0♊20'40 | 7♈21 | 10°54 | 0♉52 | 9°12 | 28° 7 | 6°16 | 22°56 | 23°59 | 6°41 | 7°40 | 9° 3 | 12°11 | n.a. | F 26 |
| S 27 | 16 4 21 | 1°17'49 | 19°40 | 12°55 | 2° 4 | 9°48 | 28° 2 | 6°21 | 22°56 | 24° 1 | 6°42 | 7°34 | 9° 0 | 12°18 | n.a. | S 27 |
| S 28 | 16 8 17 | 2°14'57 | 1♉49 | 14°54 | 3°15 | 10°25 | 27°57 | 6°27 | 22°56 | 24° 2 | 6°44 | 7°28 | 8°56 | 12°25 | n.a. | S 28 |
| M29 | 16 12 14 | 3°12'05 | 13°50 | 16°51 | 4°27 | 11° 2 | 27°52 | 6°32 | 22°56 | 24° 4 | 6°45 | 7°22 | 8°53 | 12°31 | n.a. | M29 |
| T 30 | 16 16 11 | 4° 9'13 | 25°45 | 18°45 | 5°39 | 11°39 | 27°47 | 6°38 | 22°56 | 24° 6 | 6°46 | 7°17 | 8°50 | 12°38 | n.a. | T 30 |
| W31 | 16 20 7 | 5♊ 6'21 | 7♊35 | 20♊38 | 6♉51 | 12♋16 | 27♎42 | 6♈43 | 22♒56 | 24♈ 8 | 6♉47 | 7♑12 | 8♑47 | 12♊45 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| M 1 | 13n50 | 17n33 | 4n33 | 5n44 | 1s56 | 1s11 | 1s50 | 24n58 | 1n24 | 10s43 | 1n17 | 0s41 | 2s20 | 14s51 | 0s44 | 7n19 | 1s54 | 2n 3 | 12s21 | 23s24 | 23s18 | 24n44 | | | n.a. |
| T 2 | 14 9 | 20 53 | 3 59 | 6 33 | 1 47 | 0 43 | 1 50 | 24 59 | 1 24 | 10 41 | 1 17 | 0 38 | 2 20 | 14 50 | 0 45 | 7 20 | 1 54 | 2 4 | 12 21 | 23 25 | 23 18 | 24 44 | | | n.a. |
| W 3 | 14 28 | 23 17 | 3 15 | 7 23 | 1 38 | 0 15 | 1 51 | 25 1 | 1 24 | 10 38 | 1 17 | 0 36 | 2 21 | 14 50 | 0 45 | 7 21 | 1 54 | 2 4 | 12 21 | 23 25 | 23 18 | 24 44 | | | n.a. |
| T 4 | 14 47 | 24 39 | 2 23 | 8 14 | 1 29 | 0n13 | 1 51 | 25 2 | 1 23 | 10 36 | 1 17 | 0 33 | 2 21 | 14 50 | 0 45 | 7 22 | 1 54 | 2 5 | 12 21 | 23 26 | 23 19 | 24 45 | | | n.a. |
| F 5 | 15 5 | 24 54 | 1 25 | 9 5 | 1 19 | 0 41 | 1 51 | 25 3 | 1 23 | 10 33 | 1 17 | 0 30 | 2 21 | 14 49 | 0 45 | 7 23 | 1 54 | 2 5 | 12 20 | 23 26 | 23 19 | 24 45 | | | n.a. |
| S 6 | 15 23 | 24 1 | 0 23 | 9 57 | 1 10 | 1 9 | 1 51 | 25 4 | 1 23 | 10 31 | 1 16 | 0 28 | 2 21 | 14 49 | 0 45 | 7 23 | 1 54 | 2 6 | 12 20 | 23 26 | 23 19 | 24 45 | | | n.a. |
| S 7 | 15 41 | 22 3 | 0s41 | 10 49 | 0 59 | 1 37 | 1 51 | 25 4 | 1 23 | 10 28 | 1 16 | 0 25 | 2 21 | 14 48 | 0 45 | 7 24 | 1 54 | 2 6 | 12 20 | 23 26 | 23 19 | 24 45 | | | n.a. |
| M 8 | 15 58 | 19 5 | 1 44 | 11 41 | 0 49 | 2 5 | 1 51 | 25 5 | 1 23 | 10 26 | 1 16 | 0 23 | 2 21 | 14 48 | 0 45 | 7 25 | 1 54 | 2 6 | 12 20 | 23 26 | 23 20 | 24 46 | | | n.a. |
| T 9 | 16 16 | 15 14 | 2 43 | 12 33 | 0 38 | 2 33 | 1 51 | 25 5 | 1 23 | 10 23 | 1 16 | 0 20 | 2 21 | 14 48 | 0 45 | 7 26 | 1 54 | 2 7 | 12 20 | 23 26 | 23 20 | 24 46 | | | n.a. |
| W10 | 16 33 | 10 38 | 3 36 | 13 26 | 0 27 | 3 2 | 1 51 | 25 5 | 1 23 | 10 21 | 1 16 | 0 18 | 2 22 | 14 47 | 0 45 | 7 27 | 1 54 | 2 7 | 12 20 | 23 26 | 23 20 | 24 46 | | | n.a. |
| T 11 | 16 50 | 5 26 | 4 20 | 14 17 | 0 17 | 3 30 | 1 51 | 25 5 | 1 22 | 10 19 | 1 16 | 0 15 | 2 22 | 14 47 | 0 45 | 7 27 | 1 54 | 2 8 | 12 20 | 23 26 | 23 20 | 24 46 | | | n.a. |
| F 12 | 17 6 | 0s10 | 4 51 | 15 8 | 0 6 | 3 58 | 1 51 | 25 5 | 1 22 | 10 16 | 1 16 | 0 13 | 2 22 | 14 47 | 0 45 | 7 28 | 1 54 | 2 8 | 12 20 | 23 26 | 23 20 | 24 47 | | | n.a. |
| S 13 | 17 22 | 5 58 | 5 6 | 15 59 | 0n 5 | 4 26 | 1 50 | 25 4 | 1 22 | 10 14 | 1 15 | 0 11 | 2 22 | 14 47 | 0 45 | 7 29 | 1 54 | 2 9 | 12 20 | 23 27 | 23 21 | 24 47 | | | n.a. |
| S 14 | 17 38 | 11 38 | 5 3 | 16 48 | 0 15 | 4 54 | 1 50 | 25 4 | 1 22 | 10 12 | 1 15 | 0 8 | 2 22 | 14 46 | 0 45 | 7 30 | 1 54 | 2 9 | 12 21 | 23 27 | 23 21 | 24 47 | | | n.a. |
| M15 | 17 54 | 16 48 | 4 41 | 17 36 | 0 26 | 5 22 | 1 49 | 25 3 | 1 22 | 10 10 | 1 15 | 0 6 | 2 22 | 14 46 | 0 45 | 7 30 | 1 54 | 2 9 | 12 21 | 23 28 | 23 21 | 24 47 | | | n.a. |
| T 16 | 18 10 | 21 1 | 3 58 | 18 23 | 0 36 | 5 50 | 1 49 | 25 2 | 1 22 | 10 7 | 1 15 | 0 3 | 2 23 | 14 46 | 0 45 | 7 31 | 1 54 | 2 10 | 12 21 | 23 28 | 23 21 | 24 47 | | | n.a. |
| W17 | 18 25 | 23 50 | 2 58 | 19 8 | 0 46 | 6 18 | 1 48 | 25 1 | 1 22 | 10 5 | 1 15 | 0 1 | 2 23 | 14 46 | 0 45 | 7 32 | 1 54 | 2 10 | 12 21 | 23 28 | 23 22 | 24 48 | | | n.a. |
| T 18 | 18 40 | 24 54 | 1 46 | 19 51 | 0 55 | 6 45 | 1 47 | 24 59 | 1 21 | 10 3 | 1 14 | 0n 1 | 2 23 | 14 45 | 0 45 | 7 33 | 1 54 | 2 11 | 12 21 | 23 29 | 23 22 | 24 48 | | | n.a. |
| F 19 | 18 54 | 24 8 | 0 27 | 20 31 | 1 4 | 7 13 | 1 46 | 24 58 | 1 21 | 10 1 | 1 14 | 0 3 | 2 23 | 14 45 | 0 45 | 7 33 | 1 54 | 2 11 | 12 21 | 23 29 | 23 22 | 24 48 | | | n.a. |
| S 20 | 19 8 | 21 43 | 0n52 | 21 10 | 1 12 | 7 40 | 1 45 | 24 56 | 1 21 | 9 59 | 1 14 | 0 6 | 2 23 | 14 45 | 0 45 | 7 34 | 1 54 | 2 11 | 12 21 | 23 29 | 23 22 | 24 48 | | | n.a. |
| S 21 | 19 22 | 18 0 | 2 6 | 21 46 | 1 20 | 8 8 | 1 44 | 24 55 | 1 21 | 9 57 | 1 14 | 0 8 | 2 24 | 14 45 | 0 45 | 7 35 | 1 54 | 2 12 | 12 21 | 23 29 | 23 23 | 24 48 | | | n.a. |
| M22 | 19 36 | 13 22 | 3 10 | 22 19 | 1 27 | 8 35 | 1 43 | 24 53 | 1 21 | 9 55 | 1 14 | 0 10 | 2 24 | 14 45 | 0 45 | 7 35 | 1 54 | 2 12 | 12 21 | 23 29 | 23 23 | 24 48 | | | n.a. |
| T 23 | 19 49 | 8 13 | 4 2 | 22 50 | 1 33 | 9 2 | 1 42 | 24 50 | 1 21 | 9 53 | 1 13 | 0 12 | 2 24 | 14 45 | 0 45 | 7 36 | 1 54 | 2 12 | 12 21 | 23 28 | 23 23 | 24 48 | | | n.a. |
| W24 | 20 2 | 2 50 | 4 40 | 23 19 | 1 39 | 9 29 | 1 41 | 24 48 | 1 20 | 9 51 | 1 13 | 0 14 | 2 24 | 14 45 | 0 45 | 7 37 | 1 54 | 2 13 | 12 21 | 23 29 | 23 23 | 24 49 | | | n.a. |
| T 25 | 20 15 | 2n32 | 5 3 | 23 44 | 1 44 | 9 56 | 1 40 | 24 46 | 1 20 | 9 49 | 1 13 | 0 16 | 2 24 | 14 45 | 0 45 | 7 37 | 1 54 | 2 13 | 12 21 | 23 29 | 23 23 | 24 49 | | | n.a. |
| F 26 | 20 27 | 7 41 | 5 11 | 24 7 | 1 48 | 10 22 | 1 38 | 24 43 | 1 20 | 9 48 | 1 13 | 0 18 | 2 25 | 14 45 | 0 45 | 7 38 | 1 54 | 2 13 | 12 21 | 23 29 | 23 24 | 24 49 | | | n.a. |
| S 27 | 20 39 | 12 27 | 5 4 | 24 27 | 1 52 | 10 48 | 1 37 | 24 40 | 1 20 | 9 46 | 1 12 | 0 20 | 2 25 | 14 44 | 0 45 | 7 39 | 1 54 | 2 14 | 12 21 | 23 29 | 23 24 | 24 49 | | | n.a. |
| S 28 | 20 51 | 16 40 | 4 43 | 24 45 | 1 55 | 11 14 | 1 36 | 24 37 | 1 20 | 9 44 | 1 12 | 0 22 | 2 25 | 14 44 | 0 46 | 7 39 | 1 54 | 2 14 | 12 21 | 23 30 | 23 24 | 24 49 | | | n.a. |
| M29 | 21 2 | 20 9 | 4 11 | 24 59 | 1 57 | 11 40 | 1 34 | 24 34 | 1 19 | 9 43 | 1 12 | 0 24 | 2 25 | 14 44 | 0 46 | 7 40 | 1 54 | 2 14 | 12 21 | 23 30 | 23 24 | 24 49 | | | n.a. |
| T 30 | 21 13 | 22 45 | 3 27 | 25 12 | 1 59 | 12 6 | 1 32 | 24 30 | 1 19 | 9 41 | 1 12 | 0 26 | 2 25 | 14 44 | 0 46 | 7 41 | 1 54 | 2 15 | 12 21 | 23 30 | 23 25 | 24 49 | | | n.a. |
| W31 | 21n23 | 24n22 | 2n35 | 25n22 | 2n 0 | 12n31 | 1s31 | 24n27 | 1n19 | 9s40 | 1n11 | 0n28 | 2s26 | 14s44 | 0s46 | 7n41 | 1s54 | 2n15 | 12s21 | 23s30 | 23s25 | 24n49 | | | n.a. |

Julian Day Number = 1687209.5, Delta T = 03h12m22s
Ecliptic obliquity = 23°42'25, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°21'30, Lahiri = - 5°14'29 Julian Calendar 1 May 94 BCE == Greg. Calendar 29 Apr. 094 BCE

The year -93 astronomical counting style corresponds to year 094 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 94 BCE
# geocentric

## JUNE 94 BCE (-93) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 24 4 | 6♊ 3'29 | 19♊23 | 22♊29 | 8♉ 3 | 12♋53 | 27°R37 | 6♈48 | 22°R56 | 24♈10 | 6♉49 | 7°R 9 | 8♑44 | 12♊51 | n.a. | T 1 |
| F 2 | 16 28 0 | 7° 0'37 | 1♋10 | 24°18 | 9°15 | 13°29 | 27♎33 | 6°53 | 22♒56 | 24°11 | 6°50 | 7♑ 8 | 8°41 | 12°58 | n.a. | F 2 |
| S 3 | 16 31 57 | 7°57'45 | 13° 0 | 26° 4 | 10°27 | 14° 6 | 27°28 | 6°58 | 22°56 | 24°13 | 6°51 | 7°D 8 | 8°37 | 13° 5 | n.a. | S 3 |
| S 4 | 16 35 53 | 8°54'52 | 24°56 | 27°49 | 11°39 | 14°43 | 27°24 | 7° 3 | 22°56 | 24°15 | 6°52 | 7° 9 | 8°34 | 13°11 | n.a. | S 4 |
| M 5 | 16 39 50 | 9°52'00 | 7♌ 0 | 29°31 | 12°51 | 15°20 | 27°20 | 7° 8 | 22°56 | 24°17 | 6°53 | 7°11 | 8°31 | 13°18 | n.a. | M 5 |
| T 6 | 16 43 47 | 10°49'07 | 19°17 | 1♋12 | 14° 3 | 15°57 | 27°16 | 7°13 | 22°56 | 24°18 | 6°55 | 7°12 | 8°28 | 13°25 | n.a. | T 6 |
| W 7 | 16 47 43 | 11°46'14 | 1♍52 | 2°50 | 15°15 | 16°34 | 27°13 | 7°18 | 22°55 | 24°20 | 6°56 | 7°13 | 8°25 | 13°31 | n.a. | W 7 |
| T 8 | 16 51 40 | 12°43'21 | 14°48 | 4°26 | 16°27 | 17°11 | 27° 9 | 7°22 | 22°55 | 24°22 | 6°57 | 7°R14 | 8°21 | 13°38 | n.a. | T 8 |
| F 9 | 16 55 36 | 13°40'28 | 28° 8 | 6° 0 | 17°39 | 17°48 | 27° 6 | 7°27 | 22°55 | 24°23 | 6°58 | 7°13 | 8°18 | 13°45 | n.a. | F 9 |
| S 10 | 16 59 33 | 14°37'35 | 11♎55 | 7°31 | 18°51 | 18°25 | 27° 3 | 7°32 | 22°54 | 24°25 | 6°59 | 7°11 | 8°15 | 13°51 | n.a. | S 10 |
| S 11 | 17 3 29 | 15°34'42 | 26° 9 | 9° 1 | 20° 4 | 19° 3 | 27° 0 | 7°36 | 22°54 | 24°26 | 7° 0 | 7° 9 | 8°12 | 13°58 | n.a. | S 11 |
| M12 | 17 7 26 | 16°31'49 | 10♏49 | 10°29 | 21°16 | 19°40 | 26°57 | 7°40 | 22°53 | 24°28 | 7° 1 | 7° 6 | 8° 9 | 14° 5 | n.a. | M12 |
| T 13 | 17 11 22 | 17°28'56 | 25°48 | 11°54 | 22°28 | 20°17 | 26°54 | 7°45 | 22°53 | 24°30 | 7° 2 | 7° 4 | 8° 6 | 14°11 | n.a. | T 13 |
| W14 | 17 15 19 | 18°26'03 | 10♐58 | 13°17 | 23°41 | 20°54 | 26°52 | 7°49 | 22°52 | 24°31 | 7° 3 | 7° 2 | 8° 2 | 14°18 | n.a. | W14 |
| T 15 | 17 19 16 | 19°23'11 | 26°11 | 14°38 | 24°53 | 21°31 | 26°49 | 7°53 | 22°52 | 24°32 | 7° 5 | 7° 1 | 7°59 | 14°25 | n.a. | T 15 |
| F 16 | 17 23 12 | 20°20'19 | 11♑17 | 15°56 | 26° 5 | 22° 9 | 26°47 | 7°57 | 22°51 | 24°34 | 7° 6 | 7°D 1 | 7°56 | 14°31 | n.a. | F 16 |
| S 17 | 17 27 9 | 21°17'28 | 26° 6 | 17°12 | 27°18 | 22°46 | 26°45 | 8° 1 | 22°50 | 24°35 | 7° 7 | 7° 1 | 7°53 | 14°38 | n.a. | S 17 |
| S 18 | 17 31 5 | 22°14'38 | 10♒34 | 18°26 | 28°30 | 23°23 | 26°43 | 8° 5 | 22°49 | 24°37 | 7° 8 | 7° 2 | 7°50 | 14°45 | n.a. | S 18 |
| M19 | 17 35 2 | 23°11'48 | 24°36 | 19°37 | 29°43 | 24° 0 | 26°42 | 8° 9 | 22°49 | 24°38 | 7° 9 | 7° 3 | 7°47 | 14°51 | n.a. | M19 |
| T 20 | 17 38 58 | 24° 8'59 | 8♓12 | 20°46 | 0♊56 | 24°38 | 26°40 | 8°12 | 22°48 | 24°39 | 7°10 | 7° 4 | 7°43 | 14°58 | n.a. | T 20 |
| W21 | 17 42 55 | 25° 6'10 | 21°22 | 21°52 | 2° 8 | 25°15 | 26°39 | 8°16 | 22°47 | 24°41 | 7°11 | 7°R 5 | 7°40 | 15° 4 | n.a. | W21 |
| T 22 | 17 46 51 | 26° 3'23 | 4♈10 | 22°55 | 3°21 | 25°53 | 26°38 | 8°19 | 22°46 | 24°42 | 7°12 | 7° 4 | 7°37 | 15°11 | n.a. | T 22 |
| F 23 | 17 50 48 | 27° 0'37 | 16°39 | 23°56 | 4°34 | 26°30 | 26°37 | 8°23 | 22°45 | 24°43 | 7°13 | 7° 4 | 7°34 | 15°18 | n.a. | F 23 |
| S 24 | 17 54 45 | 27°57'51 | 28°52 | 24°53 | 5°46 | 27° 8 | 26°37 | 8°26 | 22°44 | 24°45 | 7°13 | 7° 3 | 7°31 | 15°24 | n.a. | S 24 |
| S 25 | 17 58 41 | 28°55'07 | 10♉54 | 25°48 | 6°59 | 27°45 | 26°36 | 8°29 | 22°43 | 24°46 | 7°14 | 7° 2 | 7°27 | 15°31 | n.a. | S 25 |
| M26 | 18 2 38 | 29°52'23 | 22°49 | 26°39 | 8°12 | 28°23 | 26°36 | 8°32 | 22°41 | 24°47 | 7°15 | 7° 1 | 7°24 | 15°38 | n.a. | M26 |
| T 27 | 18 6 34 | 0♋49'41 | 4♊38 | 27°27 | 9°25 | 29° 0 | 26°D36 | 8°35 | 22°40 | 24°48 | 7°16 | 7° 0 | 7°21 | 15°44 | n.a. | T 27 |
| W28 | 18 10 31 | 1°46'59 | 16°26 | 28°12 | 10°38 | 29°38 | 26°36 | 8°38 | 22°39 | 24°49 | 7°17 | 6°59 | 7°18 | 15°51 | n.a. | W28 |
| T 29 | 18 14 27 | 2°44'19 | 28°14 | 28°53 | 11°51 | 0♌15 | 26°36 | 8°41 | 22°38 | 24°50 | 7°18 | 6°59 | 7°15 | 15°58 | n.a. | T 29 |
| F 30 | 18 18 24 | 3♋41'39 | 10♋ 6 | 29♋30 | 13♊ 4 | 0♌53 | 26♎36 | 8♈44 | 22♒37 | 24♈51 | 7♉19 | 6°D59 | 7♑12 | 16♊ 4 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21n34 | 24n52 | 1n36 | 25n29 | 2n 0 | 12n56 | 1s29 | 24n23 | 1n19 | 9s38 | 1n11 | 0n30 | 2s26 | 14s44 | 0s46 | 7n42 | 1s55 | 2n15 | 12s22 | 23s31 | 23s25 | 24n49 | | n.a. |
| F 2 | 21 43 | 24 15 | 0 33 | 25 34 | 1 59 | 13 21 | 1 27 | 24 19 | 1 19 | 9 37 | 1 11 | 0 32 | 2 26 | 14 45 | 0 46 | 7 43 | 1 55 | 2 16 | 12 22 | 23 31 | 23 25 | 24 50 | | n.a. |
| S 3 | 21 53 | 22 32 | 0s32 | 25 37 | 1 58 | 13 46 | 1 26 | 24 15 | 1 18 | 9 35 | 1 11 | 0 34 | 2 26 | 14 45 | 0 46 | 7 43 | 1 55 | 2 16 | 12 22 | 23 31 | 23 25 | 24 50 | | n.a. |
| S 4 | 22 2 | 19 48 | 1 36 | 25 38 | 1 56 | 14 10 | 1 24 | 24 11 | 1 18 | 9 34 | 1 10 | 0 36 | 2 26 | 14 45 | 0 46 | 7 44 | 1 55 | 2 16 | 12 22 | 23 31 | 23 26 | 24 50 | | n.a. |
| M 5 | 22 11 | 16 12 | 2 37 | 25 36 | 1 54 | 14 34 | 1 22 | 24 6 | 1 18 | 9 33 | 1 10 | 0 37 | 2 27 | 14 45 | 0 46 | 7 44 | 1 55 | 2 16 | 12 22 | 23 31 | 23 26 | 24 50 | | n.a. |
| T 6 | 22 19 | 11 51 | 3 32 | 25 33 | 1 51 | 14 58 | 1 20 | 24 2 | 1 18 | 9 32 | 1 10 | 0 39 | 2 27 | 14 45 | 0 46 | 7 45 | 1 55 | 2 17 | 12 22 | 23 31 | 23 26 | 24 50 | | n.a. |
| W 7 | 22 27 | 6 56 | 4 17 | 25 28 | 1 47 | 15 21 | 1 18 | 23 57 | 1 18 | 9 31 | 1 10 | 0 41 | 2 27 | 14 45 | 0 46 | 7 46 | 1 55 | 2 17 | 12 22 | 23 30 | 23 26 | 24 50 | | n.a. |
| T 8 | 22 35 | 1 35 | 4 51 | 25 21 | 1 43 | 15 44 | 1 16 | 23 52 | 1 17 | 9 30 | 1 9 | 0 42 | 2 27 | 14 45 | 0 46 | 7 46 | 1 55 | 2 17 | 12 22 | 23 30 | 23 26 | 24 50 | | n.a. |
| F 9 | 22 42 | 4s 0 | 5 11 | 25 12 | 1 38 | 16 6 | 1 14 | 23 47 | 1 17 | 9 29 | 1 9 | 0 44 | 2 28 | 14 45 | 0 46 | 7 47 | 1 55 | 2 17 | 12 22 | 23 30 | 23 27 | 24 50 | | n.a. |
| S 10 | 22 49 | 9 34 | 5 14 | 25 2 | 1 33 | 16 28 | 1 12 | 23 42 | 1 17 | 9 28 | 1 9 | 0 46 | 2 28 | 14 45 | 0 46 | 7 47 | 1 55 | 2 18 | 12 22 | 23 31 | 23 27 | 24 50 | | n.a. |
| S 11 | 22 55 | 14 50 | 4 58 | 24 51 | 1 27 | 16 50 | 1 10 | 23 36 | 1 17 | 9 27 | 1 9 | 0 47 | 2 28 | 14 46 | 0 46 | 7 48 | 1 55 | 2 18 | 12 23 | 23 31 | 23 27 | 24 50 | | n.a. |
| M12 | 23 1 | 19 23 | 4 23 | 24 38 | 1 21 | 17 12 | 1 8 | 23 31 | 1 17 | 9 26 | 1 8 | 0 49 | 2 28 | 14 46 | 0 46 | 7 48 | 1 55 | 2 18 | 12 23 | 23 31 | 23 27 | 24 50 | | n.a. |
| T 13 | 23 7 | 22 47 | 3 28 | 24 24 | 1 14 | 17 32 | 1 5 | 23 25 | 1 16 | 9 26 | 1 8 | 0 50 | 2 29 | 14 46 | 0 46 | 7 49 | 1 55 | 2 18 | 12 23 | 23 31 | 23 27 | 24 50 | | n.a. |
| W14 | 23 12 | 24 38 | 2 19 | 24 8 | 1 7 | 17 53 | 1 3 | 23 19 | 1 16 | 9 25 | 1 8 | 0 52 | 2 29 | 14 46 | 0 46 | 7 49 | 1 55 | 2 19 | 12 23 | 23 31 | 23 28 | 24 50 | | n.a. |
| T 15 | 23 17 | 24 39 | 1 0 | 23 52 | 0 59 | 18 13 | 1 1 | 23 13 | 1 16 | 9 24 | 1 7 | 0 53 | 2 29 | 14 47 | 0 46 | 7 50 | 1 55 | 2 19 | 12 23 | 23 31 | 23 28 | 24 50 | | n.a. |
| F 16 | 23 21 | 22 50 | 0n24 | 23 35 | 0 50 | 18 33 | 0 58 | 23 7 | 1 16 | 9 24 | 1 7 | 0 54 | 2 29 | 14 47 | 0 46 | 7 50 | 1 55 | 2 19 | 12 23 | 23 31 | 23 28 | 24 50 | | n.a. |
| S 17 | 23 25 | 19 28 | 1 44 | 23 17 | 0 42 | 18 52 | 0 56 | 23 0 | 1 15 | 9 23 | 1 7 | 0 56 | 2 30 | 14 47 | 0 46 | 7 51 | 1 55 | 2 19 | 12 23 | 23 31 | 23 28 | 24 50 | | n.a. |
| S 18 | 23 29 | 14 58 | 2 55 | 22 58 | 0 33 | 19 11 | 0 54 | 22 53 | 1 15 | 9 23 | 1 7 | 0 57 | 2 30 | 14 47 | 0 46 | 7 51 | 1 55 | 2 19 | 12 24 | 23 31 | 23 28 | 24 50 | | n.a. |
| M19 | 23 32 | 9 47 | 3 54 | 22 38 | 0 23 | 19 29 | 0 51 | 22 47 | 1 15 | 9 23 | 1 6 | 0 58 | 2 30 | 14 48 | 0 46 | 7 52 | 1 55 | 2 19 | 12 24 | 23 31 | 23 29 | 24 50 | | n.a. |
| T 20 | 23 35 | 4 18 | 4 38 | 22 18 | 0 13 | 19 47 | 0 49 | 22 40 | 1 15 | 9 22 | 1 6 | 0 59 | 2 30 | 14 48 | 0 46 | 7 52 | 1 55 | 2 20 | 12 24 | 23 31 | 23 29 | 24 50 | | n.a. |
| W21 | 23 37 | 1n12 | 5 5 | 21 57 | 0 3 | 20 4 | 0 46 | 22 33 | 1 15 | 9 22 | 1 6 | 1 1 | 2 31 | 14 48 | 0 46 | 7 53 | 1 55 | 2 20 | 12 24 | 23 31 | 23 29 | 24 50 | | n.a. |
| T 22 | 23 39 | 6 30 | 5 17 | 21 36 | 0s 8 | 20 20 | 0 44 | 22 25 | 1 14 | 9 22 | 1 6 | 1 2 | 2 31 | 14 49 | 0 46 | 7 53 | 1 56 | 2 20 | 12 24 | 23 31 | 23 29 | 24 50 | | n.a. |
| F 23 | 23 40 | 11 25 | 5 13 | 21 15 | 0 19 | 20 37 | 0 41 | 22 18 | 1 14 | 9 22 | 1 5 | 1 3 | 2 31 | 14 49 | 0 47 | 7 53 | 1 56 | 2 20 | 12 24 | 23 31 | 23 29 | 24 50 | | n.a. |
| S 24 | 23 41 | 15 46 | 4 54 | 20 53 | 0 30 | 20 52 | 0 39 | 22 10 | 1 14 | 9 22 | 1 5 | 1 4 | 2 31 | 14 49 | 0 47 | 7 54 | 1 56 | 2 20 | 12 25 | 23 31 | 23 29 | 24 50 | | n.a. |
| S 25 | 23 42 | 19 26 | 4 23 | 20 32 | 0 42 | 21 7 | 0 36 | 22 3 | 1 14 | 9 22 | 1 5 | 1 5 | 2 32 | 14 50 | 0 47 | 7 54 | 1 56 | 2 20 | 12 25 | 23 31 | 23 30 | 24 49 | | n.a. |
| M26 | 23 42 | 22 15 | 3 41 | 20 10 | 0 54 | 21 22 | 0 34 | 21 55 | 1 13 | 9 22 | 1 4 | 1 6 | 2 32 | 14 50 | 0 47 | 7 55 | 1 56 | 2 20 | 12 25 | 23 31 | 23 30 | 24 49 | | n.a. |
| T 27 | 23 42 | 24 5 | 2 50 | 19 49 | 1 6 | 21 36 | 0 31 | 21 47 | 1 13 | 9 22 | 1 4 | 1 7 | 2 32 | 14 51 | 0 47 | 7 55 | 1 56 | 2 21 | 12 25 | 23 31 | 23 30 | 24 49 | | n.a. |
| W28 | 23 42 | 24 52 | 1 52 | 19 28 | 1 19 | 21 49 | 0 29 | 21 38 | 1 13 | 9 23 | 1 4 | 1 8 | 2 32 | 14 51 | 0 47 | 7 55 | 1 56 | 2 21 | 12 25 | 23 31 | 23 30 | 24 49 | | n.a. |
| T 29 | 23 41 | 24 30 | 0 48 | 19 7 | 1 32 | 22 2 | 0 26 | 21 30 | 1 13 | 9 23 | 1 4 | 1 9 | 2 33 | 14 52 | 0 47 | 7 56 | 1 56 | 2 21 | 12 25 | 23 31 | 23 30 | 24 49 | | n.a. |
| F 30 | 23n39 | 23n 2 | 0s17 | 18n47 | 1s44 | 22n14 | 0s24 | 21n22 | 1n12 | 9s24 | 1n 3 | 1n10 | 2s33 | 14s52 | 0s47 | 7n56 | 1s56 | 2n21 | 12s26 | 23s31 | 23s31 | 24n49 | | n.a. |

Julian Day Number = 1687240.5, Delta T = 03h12m21s
Ecliptic obliquity = 23°42'24, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°21'26, Lahiri = - 5°14'25 Julian Calendar 1 June 94 BCE == Greg. Calendar 30 May 094 BCE

The year -93 astronomical counting style corresponds to year 094 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 94 BCE
# geocentric

## JULY 94 BCE (-93) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 22 21 | 4♋39'00 | 22♋ 2 | 0♌ 4 | 14♊17 | 1♌31 | 26♎37 | 8♈46 | 22°R35 | 24♈52 | 7♉20 | 6♑59 | 7♑ 8 | 16♊11 | n.a. | S 1 |
| S 2 | 18 26 17 | 5°36'22 | 4♌ 6 | 0°33 | 15°30 | 2° 9 | 26°38 | 8°49 | 22♒34 | 24°53 | 7°20 | 6°59 | 7° 5 | 16°18 | n.a. | S 2 |
| M 3 | 18 30 14 | 6°33'45 | 16°20 | 0°58 | 16°43 | 2°46 | 26°39 | 8°51 | 22°32 | 24°54 | 7°21 | 6°R59 | 7° 2 | 16°24 | n.a. | M 3 |
| T 4 | 18 34 10 | 7°31'09 | 28°46 | 1°18 | 17°56 | 3°24 | 26°40 | 8°54 | 22°31 | 24°55 | 7°22 | 6°59 | 6°59 | 16°31 | n.a. | T 4 |
| W 5 | 18 38 7 | 8°28'33 | 11♍27 | 1°34 | 19° 9 | 4° 2 | 26°41 | 8°56 | 22°29 | 24°56 | 7°23 | 6°59 | 6°56 | 16°38 | n.a. | W 5 |
| T 6 | 18 42 3 | 9°25'58 | 24°26 | 1°45 | 20°23 | 4°40 | 26°43 | 8°58 | 22°28 | 24°57 | 7°23 | 6°59 | 6°53 | 16°44 | n.a. | T 6 |
| F 7 | 18 46 0 | 10°23'24 | 7♎44 | 1°51 | 21°36 | 5°18 | 26°44 | 9° 0 | 22°26 | 24°58 | 7°24 | 6°D59 | 6°49 | 16°51 | n.a. | F 7 |
| S 8 | 18 49 56 | 11°20'51 | 21°24 | 1°R52 | 22°49 | 5°55 | 26°46 | 9° 2 | 22°25 | 24°59 | 7°25 | 6°59 | 6°46 | 16°58 | n.a. | S 8 |
| S 9 | 18 53 53 | 12°18'19 | 5♏27 | 1°47 | 24° 2 | 6°33 | 26°48 | 9° 4 | 22°23 | 25° 0 | 7°25 | 6°59 | 6°43 | 17° 4 | n.a. | S 9 |
| M10 | 18 57 50 | 13°15'47 | 19°51 | 1°37 | 25°16 | 7°11 | 26°51 | 9° 6 | 22°21 | 25° 0 | 7°26 | 7° 0 | 6°40 | 17°11 | n.a. | M10 |
| T 11 | 19 1 46 | 14°13'17 | 4♐34 | 1°22 | 26°29 | 7°49 | 26°53 | 9° 7 | 22°20 | 25° 1 | 7°27 | 7° 0 | 6°37 | 17°18 | n.a. | T 11 |
| W12 | 19 5 43 | 15°10'48 | 19°30 | 1° 1 | 27°43 | 8°27 | 26°56 | 9° 9 | 22°18 | 25° 2 | 7°27 | 7° 1 | 6°33 | 17°24 | n.a. | W12 |
| T 13 | 19 9 39 | 16° 8'20 | 4♑32 | 0°35 | 28°56 | 9° 5 | 26°58 | 9°10 | 22°16 | 25° 3 | 7°28 | 7°R 1 | 6°30 | 17°31 | n.a. | T 13 |
| F 14 | 19 13 36 | 17° 5'53 | 19°32 | 0° 4 | 0♋ 9 | 9°44 | 27° 1 | 9°12 | 22°14 | 25° 3 | 7°29 | 7° 1 | 6°27 | 17°38 | n.a. | F 14 |
| S 15 | 19 17 32 | 18° 3'27 | 4♒22 | 29♋29 | 1°23 | 10°22 | 27° 4 | 9°13 | 22°13 | 25° 4 | 7°29 | 7° 0 | 6°24 | 17°44 | n.a. | S 15 |
| S 16 | 19 21 29 | 19° 1'03 | 18°54 | 28°48 | 2°37 | 11° 0 | 27° 8 | 9°14 | 22°11 | 25° 4 | 7°30 | 6°59 | 6°21 | 17°51 | n.a. | S 16 |
| M17 | 19 25 25 | 19°58'40 | 3♓ 3 | 28° 5 | 3°50 | 11°38 | 27°11 | 9°15 | 22° 9 | 25° 5 | 7°30 | 6°58 | 6°18 | 17°58 | n.a. | M17 |
| T 18 | 19 29 22 | 20°56'19 | 16°46 | 27°18 | 5° 4 | 12°16 | 27°15 | 9°16 | 22° 7 | 25° 5 | 7°31 | 6°56 | 6°14 | 18° 4 | n.a. | T 18 |
| W19 | 19 33 19 | 21°53'59 | 0♈ 2 | 26°28 | 6°18 | 12°54 | 27°19 | 9°17 | 22° 5 | 25° 6 | 7°31 | 6°55 | 6°11 | 18°11 | n.a. | W19 |
| T 20 | 19 37 15 | 22°51'41 | 12°54 | 25°37 | 7°31 | 13°33 | 27°23 | 9°17 | 22° 3 | 25° 6 | 7°32 | 6°54 | 6° 8 | 18°17 | n.a. | T 20 |
| F 21 | 19 41 12 | 23°49'25 | 25°24 | 24°45 | 8°45 | 14°11 | 27°27 | 9°18 | 22° 1 | 25° 7 | 7°32 | 6°D53 | 6° 5 | 18°24 | n.a. | F 21 |
| S 22 | 19 45 8 | 24°47'11 | 7♉36 | 23°54 | 9°59 | 14°49 | 27°31 | 9°18 | 21°59 | 25° 7 | 7°33 | 6°54 | 6° 2 | 18°31 | n.a. | S 22 |
| S 23 | 19 49 5 | 25°44'58 | 19°36 | 23° 4 | 11°13 | 15°28 | 27°35 | 9°19 | 21°57 | 25° 7 | 7°33 | 6°55 | 5°59 | 18°37 | n.a. | S 23 |
| M24 | 19 53 1 | 26°42'48 | 1♊28 | 22°16 | 12°27 | 16° 6 | 27°40 | 9°19 | 21°55 | 25° 8 | 7°33 | 6°56 | 5°55 | 18°44 | n.a. | M24 |
| T 25 | 19 56 58 | 27°40'39 | 13°15 | 21°32 | 13°41 | 16°45 | 27°45 | 9°19 | 21°53 | 25° 8 | 7°34 | 6°58 | 5°52 | 18°51 | n.a. | T 25 |
| W26 | 20 0 54 | 28°38'32 | 25° 4 | 20°52 | 14°55 | 17°23 | 27°50 | 9°R19 | 21°50 | 25° 8 | 7°34 | 6°59 | 5°49 | 18°57 | n.a. | W26 |
| T 27 | 20 4 51 | 29°36'27 | 6♋55 | 20°18 | 16° 9 | 18° 2 | 27°55 | 9°19 | 21°48 | 25° 8 | 7°34 | 7°R 0 | 5°46 | 19° 4 | n.a. | T 27 |
| F 28 | 20 8 48 | 0♌34'23 | 18°54 | 19°50 | 17°23 | 18°40 | 28° 0 | 9°19 | 21°46 | 25° 9 | 7°35 | 6°59 | 5°43 | 19°11 | n.a. | F 28 |
| S 29 | 20 12 44 | 1°32'21 | 1♌ 1 | 19°28 | 18°37 | 19°19 | 28° 6 | 9°19 | 21°44 | 25° 9 | 7°35 | 6°57 | 5°39 | 19°17 | n.a. | S 29 |
| S 30 | 20 16 41 | 2°30'21 | 13°19 | 19°14 | 19°51 | 19°57 | 28°11 | 9°18 | 21°42 | 25° 9 | 7°35 | 6°54 | 5°36 | 19°24 | n.a. | S 30 |
| M31 | 20 20 37 | 3♌28'22 | 25♌49 | 19°D 7 | 21♋ 5 | 20♌36 | 28♎17 | 9♈18 | 21♒39 | 25♈ 9 | 7♉36 | 6♑51 | 5♑33 | 19♊31 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23n37 | 20n31 | 1s23 | 18n27 | 1s57 | 22n25 | 0s21 | 21n13 | 1n12 | 9s24 | 1n 3 | 1n10 | 2s33 | 14s53 | 0s47 | 7n56 | 1s56 | 2n21 | 12s26 | 23s31 | 23s31 | 24n49 | | n.a. |
| S 2 | 23 35 | 17 6 | 2 25 | 18 8 | 2 10 | 22 36 | 0 18 | 21 4 | 1 12 | 9 25 | 1 3 | 1 11 | 2 34 | 14 53 | 0 47 | 7 57 | 1 56 | 2 21 | 12 26 | 23 31 | 23 31 | 24 49 | | n.a. |
| M 3 | 23 32 | 12 54 | 3 22 | 17 50 | 2 23 | 22 46 | 0 16 | 20 55 | 1 11 | 9 25 | 1 2 | 1 12 | 2 34 | 14 53 | 0 47 | 7 57 | 1 56 | 2 21 | 12 26 | 23 31 | 23 31 | 24 49 | | n.a. |
| T 4 | 23 29 | 8 8 | 4 10 | 17 33 | 2 36 | 22 56 | 0 13 | 20 46 | 1 11 | 9 26 | 1 2 | 1 12 | 2 34 | 14 54 | 0 47 | 7 57 | 1 56 | 2 21 | 12 26 | 23 31 | 23 31 | 24 49 | | n.a. |
| W 5 | 23 26 | 2 56 | 4 47 | 17 17 | 2 49 | 23 5 | 0 11 | 20 37 | 1 11 | 9 27 | 1 2 | 1 13 | 2 34 | 14 55 | 0 47 | 7 58 | 1 56 | 2 21 | 12 27 | 23 31 | 23 31 | 24 48 | | n.a. |
| T 6 | 23 22 | 2s30 | 5 10 | 17 2 | 3 2 | 23 13 | 0 8 | 20 27 | 1 11 | 9 27 | 1 2 | 1 14 | 2 35 | 14 55 | 0 47 | 7 58 | 1 56 | 2 21 | 12 27 | 23 31 | 23 32 | 24 48 | | n.a. |
| F 7 | 23 18 | 7 57 | 5 18 | 16 49 | 3 14 | 23 21 | 0 5 | 20 18 | 1 10 | 9 28 | 1 1 | 1 14 | 2 35 | 14 56 | 0 47 | 7 58 | 1 56 | 2 21 | 12 27 | 23 31 | 23 32 | 24 48 | | n.a. |
| S 8 | 23 13 | 13 11 | 5 8 | 16 37 | 3 27 | 23 28 | 0 3 | 20 8 | 1 10 | 9 29 | 1 1 | 1 15 | 2 35 | 14 56 | 0 47 | 7 58 | 1 57 | 2 21 | 12 27 | 23 31 | 23 32 | 24 48 | | n.a. |
| S 9 | 23 8 | 17 52 | 4 39 | 16 26 | 3 38 | 23 34 | 0 0 | 19 58 | 1 10 | 9 30 | 1 1 | 1 15 | 2 36 | 14 57 | 0 47 | 7 59 | 1 57 | 2 21 | 12 27 | 23 31 | 23 32 | 24 48 | | n.a. |
| M10 | 23 2 | 21 38 | 3 53 | 16 18 | 3 49 | 23 39 | 0n 2 | 19 48 | 1 10 | 9 31 | 1 0 | 1 16 | 2 36 | 14 57 | 0 47 | 7 59 | 1 57 | 2 21 | 12 28 | 23 31 | 23 32 | 24 48 | | n.a. |
| T 11 | 22 56 | 24 5 | 2 51 | 16 11 | 4 0 | 23 44 | 0 5 | 19 38 | 1 9 | 9 32 | 1 0 | 1 16 | 2 36 | 14 58 | 0 47 | 7 59 | 1 57 | 2 21 | 12 28 | 23 31 | 23 32 | 24 47 | | n.a. |
| W12 | 22 50 | 24 53 | 1 36 | 16 6 | 4 9 | 23 48 | 0 7 | 19 28 | 1 9 | 9 34 | 1 0 | 1 16 | 2 36 | 14 58 | 0 47 | 7 59 | 1 57 | 2 21 | 12 28 | 23 31 | 23 33 | 24 47 | | n.a. |
| T 13 | 22 43 | 23 51 | 0 14 | 16 3 | 4 18 | 23 52 | 0 10 | 19 17 | 1 9 | 9 35 | 1 0 | 1 17 | 2 37 | 14 59 | 0 47 | 7 59 | 1 57 | 2 21 | 12 28 | 23 31 | 23 33 | 24 47 | | n.a. |
| F 14 | 22 36 | 21 8 | 1n 9 | 16 3 | 4 25 | 23 55 | 0 12 | 19 7 | 1 8 | 9 36 | 0 59 | 1 17 | 2 37 | 15 0 | 0 47 | 7 59 | 1 57 | 2 21 | 12 28 | 23 31 | 23 33 | 24 47 | | n.a. |
| S 15 | 22 28 | 17 1 | 2 26 | 16 4 | 4 31 | 23 57 | 0 15 | 18 56 | 1 8 | 9 38 | 0 59 | 1 17 | 2 37 | 15 0 | 0 47 | 8 0 | 1 57 | 2 21 | 12 29 | 23 31 | 23 33 | 24 47 | | n.a. |
| S 16 | 22 20 | 11 58 | 3 32 | 16 8 | 4 36 | 23 58 | 0 17 | 18 45 | 1 8 | 9 39 | 0 59 | 1 17 | 2 38 | 15 1 | 0 47 | 8 0 | 1 57 | 2 21 | 12 29 | 23 31 | 23 33 | 24 46 | | n.a. |
| M17 | 22 12 | 6 25 | 4 23 | 16 14 | 4 39 | 23 59 | 0 20 | 18 34 | 1 8 | 9 41 | 0 59 | 1 17 | 2 38 | 15 2 | 0 47 | 8 0 | 1 57 | 2 21 | 12 29 | 23 31 | 23 33 | 24 46 | | n.a. |
| T 18 | 22 3 | 0 43 | 4 57 | 16 21 | 4 40 | 23 59 | 0 22 | 18 23 | 1 7 | 9 42 | 0 58 | 1 18 | 2 38 | 15 2 | 0 47 | 8 0 | 1 57 | 2 21 | 12 29 | 23 31 | 23 33 | 24 46 | | n.a. |
| W19 | 21 54 | 4n49 | 5 14 | 16 31 | 4 40 | 23 58 | 0 24 | 18 12 | 1 7 | 9 44 | 0 58 | 1 18 | 2 38 | 15 3 | 0 47 | 8 0 | 1 57 | 2 21 | 12 29 | 23 31 | 23 34 | 24 46 | | n.a. |
| T 20 | 21 45 | 9 58 | 5 15 | 16 43 | 4 37 | 23 56 | 0 27 | 18 0 | 1 7 | 9 45 | 0 58 | 1 18 | 2 39 | 15 4 | 0 47 | 8 0 | 1 57 | 2 21 | 12 30 | 23 31 | 23 34 | 24 45 | | n.a. |
| F 21 | 21 35 | 14 34 | 5 0 | 16 56 | 4 33 | 23 54 | 0 29 | 17 49 | 1 6 | 9 47 | 0 57 | 1 18 | 2 39 | 15 4 | 0 47 | 8 0 | 1 57 | 2 21 | 12 30 | 23 32 | 23 34 | 24 45 | | n.a. |
| S 22 | 21 25 | 18 29 | 4 32 | 17 11 | 4 27 | 23 51 | 0 31 | 17 37 | 1 6 | 9 49 | 0 57 | 1 17 | 2 39 | 15 5 | 0 47 | 8 0 | 1 57 | 2 21 | 12 30 | 23 31 | 23 34 | 24 45 | | n.a. |
| S 23 | 21 14 | 21 34 | 3 53 | 17 27 | 4 19 | 23 47 | 0 34 | 17 25 | 1 6 | 9 51 | 0 57 | 1 17 | 2 40 | 15 6 | 0 47 | 8 1 | 1 57 | 2 21 | 12 30 | 23 31 | 23 34 | 24 45 | | n.a. |
| M24 | 21 3 | 23 41 | 3 4 | 17 45 | 4 9 | 23 43 | 0 36 | 17 14 | 1 5 | 9 53 | 0 57 | 1 17 | 2 40 | 15 6 | 0 47 | 8 1 | 1 58 | 2 21 | 12 31 | 23 31 | 23 34 | 24 44 | | n.a. |
| T 25 | 20 51 | 24 45 | 2 7 | 18 3 | 3 58 | 23 38 | 0 38 | 17 2 | 1 5 | 9 55 | 0 56 | 1 17 | 2 40 | 15 7 | 0 47 | 8 1 | 1 58 | 2 21 | 12 31 | 23 31 | 23 34 | 24 44 | | n.a. |
| W26 | 20 40 | 24 42 | 1 5 | 18 22 | 3 45 | 23 32 | 0 40 | 16 49 | 1 5 | 9 57 | 0 56 | 1 17 | 2 40 | 15 8 | 0 47 | 8 1 | 1 58 | 2 21 | 12 31 | 23 31 | 23 35 | 24 44 | | n.a. |
| T 27 | 20 28 | 23 32 | 0 0 | 18 41 | 3 31 | 23 25 | 0 42 | 16 37 | 1 4 | 9 59 | 0 56 | 1 16 | 2 41 | 15 9 | 0 47 | 8 1 | 1 58 | 2 20 | 12 31 | 23 31 | 23 35 | 24 44 | | n.a. |
| F 28 | 20 15 | 21 17 | 1s 5 | 19 0 | 3 15 | 23 18 | 0 45 | 16 25 | 1 4 | 10 1 | 0 56 | 1 16 | 2 41 | 15 9 | 0 47 | 8 1 | 1 58 | 2 20 | 12 31 | 23 31 | 23 35 | 24 43 | | n.a. |
| S 29 | 20 2 | 18 4 | 2 8 | 19 19 | 2 59 | 23 10 | 0 47 | 16 12 | 1 4 | 10 3 | 0 55 | 1 16 | 2 41 | 15 10 | 0 47 | 8 1 | 1 58 | 2 20 | 12 32 | 23 31 | 23 35 | 24 43 | | n.a. |
| S 30 | 19 49 | 14 2 | 3 7 | 19 38 | 2 42 | 23 1 | 0 49 | 16 0 | 1 3 | 10 5 | 0 55 | 1 15 | 2 42 | 15 11 | 0 47 | 8 1 | 1 58 | 2 20 | 12 32 | 23 31 | 23 35 | 24 43 | | n.a. |
| M31 | 19n36 | 9n21 | 3s57 | 19n56 | 2s25 | 22n52 | 0n51 | 15n47 | 1n 3 | 10s 8 | 0n55 | 1n15 | 2s42 | 15s12 | 0s48 | 8n 1 | 1s58 | 2n20 | 12s32 | 23s32 | 23s35 | 24n42 | | n.a. |

Julian Day Number = 1687270.5, Delta T = 03h12m20s
Ecliptic obliquity = 23°42'24, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°21'22, Lahiri = - 5°14'21 Julian Calendar 1 July 94 BCE == Greg. Calendar 29 June 094 BCE

The year -93 astronomical counting style corresponds to year 094 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 94 BCE
# geocentric

## AUGUST 94 BCE (-93) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 24 34 | 4♌26'25 | 8♍31 | 19♋ 9 | 22♋19 | 21♌15 | 28♎23 | 9°R17 | 21°R37 | 25♈ 9 | 7♉36 | 6°R46 | 5♏30 | 19♊37 | n.a. | T 1 |
| W 2 | 20 28 30 | 5°24'30 | 21°27 | 19°19 | 23°33 | 21°53 | 28°29 | 9♈16 | 21♒35 | 25°R 9 | 7°36 | 6♏42 | 5°27 | 19°44 | n.a. | W 2 |
| T 3 | 20 32 27 | 6°22'36 | 4♎37 | 19°37 | 24°47 | 22°32 | 28°35 | 9°16 | 21°33 | 25° 9 | 7°36 | 6°38 | 5°24 | 19°51 | n.a. | T 3 |
| F 4 | 20 36 23 | 7°20'44 | 18° 2 | 20° 4 | 26° 2 | 23°11 | 28°41 | 9°15 | 21°30 | 25° 9 | 7°36 | 6°35 | 5°20 | 19°57 | n.a. | F 4 |
| S 5 | 20 40 20 | 8°18'53 | 1♏41 | 20°39 | 27°16 | 23°50 | 28°48 | 9°14 | 21°28 | 25° 9 | 7°36 | 6°34 | 5°17 | 20° 4 | n.a. | S 5 |
| S 6 | 20 44 17 | 9°17'04 | 15°36 | 21°22 | 28°30 | 24°29 | 28°54 | 9°12 | 21°26 | 25° 9 | 7°37 | 6°D34 | 5°14 | 20°11 | n.a. | S 6 |
| M 7 | 20 48 13 | 10°15'16 | 29°45 | 22°12 | 29°45 | 25° 8 | 29° 1 | 9°11 | 21°23 | 25° 9 | 7°37 | 6°35 | 5°11 | 20°17 | n.a. | M 7 |
| T 8 | 20 52 10 | 11°13'30 | 14♐ 8 | 23°11 | 0♌59 | 25°47 | 29° 8 | 9°10 | 21°21 | 25° 8 | 7°37 | 6°36 | 5° 8 | 20°24 | n.a. | T 8 |
| W 9 | 20 56 6 | 12°11'46 | 28°42 | 24°16 | 2°13 | 26°25 | 29°15 | 9° 8 | 21°19 | 25° 8 | 7°37 | 6°37 | 5° 4 | 20°31 | n.a. | W 9 |
| T 10 | 21 0 3 | 13°10'03 | 13♑22 | 25°28 | 3°28 | 27° 4 | 29°22 | 9° 7 | 21°16 | 25° 8 | 7°37 | 6°R37 | 5° 1 | 20°37 | n.a. | T 10 |
| F 11 | 21 3 59 | 14° 8'23 | 28° 4 | 26°46 | 4°42 | 27°44 | 29°30 | 9° 5 | 21°14 | 25° 8 | 7°R37 | 6°36 | 4°58 | 20°44 | n.a. | F 11 |
| S 12 | 21 7 56 | 15° 6'43 | 12♒39 | 28° 9 | 5°57 | 28°23 | 29°37 | 9° 3 | 21°11 | 25° 7 | 7°37 | 6°32 | 4°55 | 20°50 | n.a. | S 12 |
| S 13 | 21 11 52 | 16° 5'06 | 27° 3 | 29°38 | 7°11 | 29° 2 | 29°45 | 9° 2 | 21° 9 | 25° 7 | 7°37 | 6°27 | 4°52 | 20°57 | n.a. | S 13 |
| M14 | 21 15 49 | 17° 3'31 | 11♓ 8 | 1♌11 | 8°26 | 29°41 | 29°53 | 9° 0 | 21° 7 | 25° 7 | 7°37 | 6°21 | 4°49 | 21° 4 | n.a. | M14 |
| T 15 | 21 19 46 | 18° 1'58 | 24°51 | 2°48 | 9°40 | 0♍20 | 0♏ 0 | 8°58 | 21° 4 | 25° 6 | 7°37 | 6°14 | 4°45 | 21°10 | n.a. | T 15 |
| W16 | 21 23 42 | 19° 0'26 | 8♈ 9 | 4°28 | 10°55 | 0°59 | 0° 8 | 8°55 | 21° 2 | 25° 6 | 7°37 | 6° 8 | 4°42 | 21°17 | n.a. | W16 |
| T 17 | 21 27 39 | 19°58'58 | 21° 3 | 6°11 | 12°10 | 1°39 | 0°17 | 8°53 | 20°59 | 25° 5 | 7°36 | 6° 3 | 4°39 | 21°24 | n.a. | T 17 |
| F 18 | 21 31 35 | 20°57'31 | 3♉36 | 7°57 | 13°24 | 2°18 | 0°25 | 8°51 | 20°57 | 25° 5 | 7°36 | 5°59 | 4°36 | 21°30 | n.a. | F 18 |
| S 19 | 21 35 32 | 21°56'07 | 15°49 | 9°44 | 14°39 | 2°57 | 0°33 | 8°48 | 20°55 | 25° 4 | 7°36 | 5°58 | 4°33 | 21°37 | n.a. | S 19 |
| S 20 | 21 39 28 | 22°54'45 | 27°49 | 11°33 | 15°54 | 3°37 | 0°42 | 8°46 | 20°52 | 25° 4 | 7°36 | 5°D57 | 4°30 | 21°44 | n.a. | S 20 |
| M21 | 21 43 25 | 23°53'25 | 9♊41 | 13°23 | 17° 9 | 4°16 | 0°50 | 8°43 | 20°50 | 25° 3 | 7°36 | 5°58 | 4°26 | 21°50 | n.a. | M21 |
| T 22 | 21 47 21 | 24°52'08 | 21°29 | 15°14 | 18°23 | 4°55 | 0°59 | 8°41 | 20°47 | 25° 2 | 7°36 | 6° 0 | 4°23 | 21°57 | n.a. | T 22 |
| W23 | 21 51 18 | 25°50'53 | 3♋18 | 17° 5 | 19°38 | 5°35 | 1° 8 | 8°38 | 20°45 | 25° 2 | 7°35 | 6°R 1 | 4°20 | 22° 4 | n.a. | W23 |
| T 24 | 21 55 14 | 26°49'41 | 15°14 | 18°57 | 20°53 | 6°15 | 1°17 | 8°35 | 20°43 | 25° 1 | 7°35 | 6° 0 | 4°17 | 22°10 | n.a. | T 24 |
| F 25 | 21 59 11 | 27°48'30 | 27°19 | 20°48 | 22° 8 | 6°54 | 1°26 | 8°32 | 20°40 | 25° 0 | 7°35 | 5°58 | 4°14 | 22°17 | n.a. | F 25 |
| S 26 | 22 3 8 | 28°47'22 | 9♌38 | 22°39 | 23°23 | 7°34 | 1°35 | 8°29 | 20°38 | 24°59 | 7°34 | 5°53 | 4°10 | 22°24 | n.a. | S 26 |
| S 27 | 22 7 4 | 29°46'16 | 22°12 | 24°30 | 24°38 | 8°13 | 1°44 | 8°26 | 20°36 | 24°59 | 7°34 | 5°46 | 4° 7 | 22°30 | n.a. | S 27 |
| M28 | 22 11 1 | 0♍45'12 | 5♍ 1 | 26°21 | 25°53 | 8°53 | 1°54 | 8°22 | 20°33 | 24°58 | 7°34 | 5°37 | 4° 4 | 22°37 | n.a. | M28 |
| T 29 | 22 14 57 | 1°44'10 | 18° 6 | 28°11 | 27° 7 | 9°33 | 2° 3 | 8°19 | 20°31 | 24°57 | 7°33 | 5°27 | 4° 1 | 22°44 | n.a. | T 29 |
| W30 | 22 18 54 | 2°43'11 | 1♎24 | 0♍ 0 | 28°22 | 10°13 | 2°13 | 8°16 | 20°28 | 24°56 | 7°33 | 5°17 | 3°58 | 22°50 | n.a. | W30 |
| T 31 | 22 22 50 | 3♍42'13 | 14♎55 | 1♍49 | 29♌37 | 10♍53 | 2♏23 | 8♈12 | 20♒26 | 24♈55 | 7♉33 | 5♏ 9 | 3♏55 | 22♊57 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 19n22 | 4n12 | 4s36 | 20n14 | 2s 7 | 22n42 | 0n52 | 15n34 | 1n 3 | 10s10 | 0n55 | 1n14 | 2s42 | 15s12 | 0s48 | 8n 1 | 1s58 | 2n20 | 12s32 | 23s32 | 23s35 | 24n42 | | | n.a. |
| W 2 | 19 8 | 1s12 | 5 2 | 20 30 | 1 49 | 22 31 | 0 54 | 15 21 | 1 2 | 10 12 | 0 54 | 1 14 | 2 42 | 15 13 | 0 48 | 8 0 | 1 58 | 2 20 | 12 33 | 23 32 | 23 36 | 24 42 | | | n.a. |
| T 3 | 18 53 | 6 38 | 5 13 | 20 45 | 1 31 | 22 20 | 0 56 | 15 8 | 1 2 | 10 15 | 0 54 | 1 13 | 2 43 | 15 14 | 0 48 | 8 0 | 1 58 | 2 19 | 12 33 | 23 32 | 23 36 | 24 41 | | | n.a. |
| F 4 | 18 38 | 11 52 | 5 7 | 20 59 | 1 13 | 22 8 | 0 58 | 14 55 | 1 2 | 10 17 | 0 54 | 1 13 | 2 43 | 15 15 | 0 48 | 8 0 | 1 58 | 2 19 | 12 33 | 23 32 | 23 36 | 24 41 | | | n.a. |
| S 5 | 18 23 | 16 37 | 4 44 | 21 11 | 0 56 | 21 55 | 1 0 | 14 41 | 1 1 | 10 20 | 0 54 | 1 12 | 2 43 | 15 15 | 0 48 | 8 0 | 1 58 | 2 19 | 12 33 | 23 33 | 23 36 | 24 41 | | | n.a. |
| S 6 | 18 8 | 20 34 | 4 3 | 21 21 | 0 39 | 21 41 | 1 1 | 14 28 | 1 1 | 10 23 | 0 53 | 1 11 | 2 43 | 15 16 | 0 48 | 8 0 | 1 58 | 2 19 | 12 34 | 23 33 | 23 36 | 24 40 | | | n.a. |
| M 7 | 17 52 | 23 23 | 3 8 | 21 28 | 0 23 | 21 27 | 1 3 | 14 15 | 1 1 | 10 25 | 0 53 | 1 11 | 2 44 | 15 17 | 0 48 | 8 0 | 1 58 | 2 19 | 12 34 | 23 32 | 23 36 | 24 40 | | | n.a. |
| T 8 | 17 36 | 24 44 | 2 0 | 21 34 | 0 8 | 21 13 | 1 5 | 14 1 | 1 0 | 10 28 | 0 53 | 1 10 | 2 44 | 15 18 | 0 48 | 8 0 | 1 59 | 2 19 | 12 34 | 23 32 | 23 36 | 24 40 | | | n.a. |
| W 9 | 17 20 | 24 25 | 0 43 | 21 37 | 0n 7 | 20 57 | 1 6 | 13 47 | 1 0 | 10 31 | 0 53 | 1 9 | 2 44 | 15 18 | 0 48 | 8 0 | 1 59 | 2 18 | 12 34 | 23 32 | 23 36 | 24 39 | | | n.a. |
| T 10 | 17 3 | 22 25 | 0n37 | 21 38 | 0 21 | 20 41 | 1 8 | 13 33 | 1 0 | 10 33 | 0 52 | 1 8 | 2 45 | 15 19 | 0 48 | 8 0 | 1 59 | 2 18 | 12 34 | 23 32 | 23 37 | 24 39 | | | n.a. |
| F 11 | 16 46 | 18 55 | 1 54 | 21 35 | 0 34 | 20 25 | 1 9 | 13 19 | 0 59 | 10 36 | 0 52 | 1 7 | 2 45 | 15 20 | 0 48 | 7 59 | 1 59 | 2 18 | 12 35 | 23 32 | 23 37 | 24 39 | | | n.a. |
| S 12 | 16 29 | 14 16 | 3 3 | 21 30 | 0 45 | 20 8 | 1 10 | 13 5 | 0 59 | 10 39 | 0 52 | 1 6 | 2 45 | 15 21 | 0 48 | 7 59 | 1 59 | 2 18 | 12 35 | 23 33 | 23 37 | 24 38 | | | n.a. |
| S 13 | 16 12 | 8 53 | 4 0 | 21 22 | 0 56 | 19 50 | 1 12 | 12 51 | 0 59 | 10 42 | 0 52 | 1 5 | 2 45 | 15 22 | 0 48 | 7 59 | 1 59 | 2 17 | 12 35 | 23 33 | 23 37 | 24 38 | | | n.a. |
| M14 | 15 54 | 3 9 | 4 40 | 21 12 | 1 6 | 19 32 | 1 13 | 12 37 | 0 58 | 10 45 | 0 52 | 1 4 | 2 46 | 15 22 | 0 48 | 7 59 | 1 59 | 2 17 | 12 35 | 23 33 | 23 37 | 24 37 | | | n.a. |
| T 15 | 15 36 | 2n34 | 5 4 | 20 58 | 1 15 | 19 13 | 1 14 | 12 23 | 0 58 | 10 48 | 0 51 | 1 3 | 2 46 | 15 23 | 0 48 | 7 59 | 1 59 | 2 17 | 12 36 | 23 33 | 23 37 | 24 37 | | | n.a. |
| W16 | 15 18 | 8 0 | 5 9 | 20 42 | 1 22 | 18 53 | 1 15 | 12 8 | 0 57 | 10 51 | 0 51 | 1 2 | 2 46 | 15 24 | 0 48 | 7 58 | 1 59 | 2 17 | 12 36 | 23 34 | 23 37 | 24 37 | | | n.a. |
| T 17 | 14 59 | 12 55 | 4 59 | 20 22 | 1 29 | 18 33 | 1 16 | 11 54 | 0 57 | 10 54 | 0 51 | 1 1 | 2 46 | 15 25 | 0 48 | 7 58 | 1 59 | 2 17 | 12 36 | 23 34 | 23 37 | 24 36 | | | n.a. |
| F 18 | 14 40 | 17 9 | 4 35 | 20 1 | 1 35 | 18 13 | 1 17 | 11 39 | 0 57 | 10 57 | 0 51 | 1 0 | 2 47 | 15 25 | 0 48 | 7 58 | 1 59 | 2 16 | 12 36 | 23 34 | 23 38 | 24 36 | | | n.a. |
| S 19 | 14 21 | 20 33 | 3 58 | 19 36 | 1 40 | 17 52 | 1 18 | 11 25 | 0 56 | 11 0 | 0 50 | 0 59 | 2 47 | 15 26 | 0 48 | 7 58 | 1 59 | 2 16 | 12 37 | 23 34 | 23 38 | 24 35 | | | n.a. |
| S 20 | 14 2 | 23 0 | 3 12 | 19 10 | 1 43 | 17 30 | 1 19 | 11 10 | 0 56 | 11 4 | 0 50 | 0 57 | 2 47 | 15 27 | 0 48 | 7 57 | 1 59 | 2 16 | 12 37 | 23 34 | 23 38 | 24 35 | | | n.a. |
| M21 | 13 42 | 24 25 | 2 18 | 18 41 | 1 46 | 17 8 | 1 20 | 10 55 | 0 56 | 11 7 | 0 50 | 0 56 | 2 47 | 15 28 | 0 48 | 7 57 | 1 59 | 2 15 | 12 37 | 23 34 | 23 38 | 24 35 | | | n.a. |
| T 22 | 13 23 | 24 43 | 1 18 | 18 10 | 1 48 | 16 46 | 1 21 | 10 40 | 0 55 | 11 10 | 0 50 | 0 55 | 2 48 | 15 29 | 0 48 | 7 57 | 1 59 | 2 15 | 12 37 | 23 34 | 23 38 | 24 34 | | | n.a. |
| W23 | 13 3 | 23 55 | 0 15 | 17 38 | 1 50 | 16 23 | 1 21 | 10 25 | 0 55 | 11 13 | 0 50 | 0 54 | 2 48 | 15 29 | 0 48 | 7 57 | 1 59 | 2 15 | 12 37 | 23 34 | 23 38 | 24 34 | | | n.a. |
| T 24 | 12 42 | 22 0 | 0s50 | 17 3 | 1 50 | 15 59 | 1 22 | 10 10 | 0 54 | 11 17 | 0 49 | 0 52 | 2 48 | 15 30 | 0 48 | 7 56 | 1 59 | 2 15 | 12 38 | 23 34 | 23 38 | 24 33 | | | n.a. |
| F 25 | 12 22 | 19 6 | 1 52 | 16 27 | 1 50 | 15 35 | 1 23 | 9 55 | 0 54 | 11 20 | 0 49 | 0 51 | 2 48 | 15 31 | 0 48 | 7 56 | 2 0 | 2 14 | 12 38 | 23 34 | 23 38 | 24 33 | | | n.a. |
| S 26 | 12 1 | 15 18 | 2 51 | 15 50 | 1 49 | 15 11 | 1 23 | 9 39 | 0 54 | 11 24 | 0 49 | 0 49 | 2 48 | 15 32 | 0 48 | 7 56 | 2 0 | 2 14 | 12 38 | 23 34 | 23 38 | 24 32 | | | n.a. |
| S 27 | 11 41 | 10 46 | 3 42 | 15 12 | 1 48 | 14 46 | 1 24 | 9 24 | 0 53 | 11 27 | 0 49 | 0 48 | 2 49 | 15 32 | 0 48 | 7 55 | 2 0 | 2 14 | 12 38 | 23 35 | 23 38 | 24 32 | | | n.a. |
| M28 | 11 20 | 5 42 | 4 23 | 14 32 | 1 46 | 14 21 | 1 24 | 9 9 | 0 53 | 11 30 | 0 49 | 0 46 | 2 49 | 15 33 | 0 48 | 7 55 | 2 0 | 2 13 | 12 38 | 23 35 | 23 39 | 24 31 | | | n.a. |
| T 29 | 10 59 | 0 18 | 4 51 | 13 51 | 1 44 | 13 55 | 1 24 | 8 53 | 0 52 | 11 34 | 0 48 | 0 45 | 2 49 | 15 34 | 0 48 | 7 55 | 2 0 | 2 13 | 12 39 | 23 36 | 23 39 | 24 31 | | | n.a. |
| W30 | 10 37 | 5s12 | 5 4 | 13 10 | 1 41 | 13 29 | 1 25 | 8 37 | 0 52 | 11 38 | 0 48 | 0 43 | 2 49 | 15 35 | 0 48 | 7 54 | 2 0 | 2 13 | 12 39 | 23 36 | 23 39 | 24 30 | | | n.a. |
| T 31 | 10n16 | 10s33 | 5s 0 | 12n28 | 1n37 | 13n 3 | 1n25 | 8n22 | 0n52 | 11s41 | 0n48 | 0n42 | 2s49 | 15s35 | 0s48 | 7n54 | 2s 0 | 2n12 | 12s39 | 23s36 | 23s39 | 24n30 | | | n.a. |

Julian Day Number = 1687301.5, Delta T = 03h12m19s
Ecliptic obliquity = 23°42'24, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°21'17, Lahiri = - 5°14'17 Julian Calendar 1 Aug. 94 BCE == Greg. Calendar 30 July 094 BCE

The year -93 astronomical counting style corresponds to year 094 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 94 BCE
# geocentric

## SEPTEMBER 94 BCE (-93) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 22 26 47 | 4♍41'17 | 28♎37 | 3♍37 | 0♍52 | 11♍32 | 2♏33 | 8°R 8 | 20°R24 | 24°R54 | 7°R32 | 5°R 1 | 3♑51 | 23♊ 3 | n.a. | F 1 |
| S 2 | 22 30 43 | 5°40'23 | 12♏26 | 5°24 | 2° 7 | 12°12 | 2°43 | 8♈ 5 | 20♒21 | 24♈53 | 7♉32 | 4♑57 | 3°48 | 23°10 | n.a. | S 2 |
| S 3 | 22 34 40 | 6°39'31 | 26°23 | 7°10 | 3°22 | 12°52 | 2°53 | 8° 1 | 20°19 | 24°52 | 7°31 | 4°54 | 3°45 | 23°17 | n.a. | S 3 |
| M 4 | 22 38 37 | 7°38'41 | 10♐27 | 8°56 | 4°37 | 13°32 | 3° 3 | 7°57 | 20°17 | 24°51 | 7°31 | 4°D54 | 3°42 | 23°23 | n.a. | M 4 |
| T 5 | 22 42 33 | 8°37'53 | 24°35 | 10°40 | 5°53 | 14°12 | 3°13 | 7°53 | 20°15 | 24°50 | 7°30 | 4°55 | 3°39 | 23°30 | n.a. | T 5 |
| W 6 | 22 46 30 | 9°37'06 | 8♑48 | 12°24 | 7° 8 | 14°52 | 3°24 | 7°49 | 20°12 | 24°49 | 7°30 | 4°R55 | 3°36 | 23°37 | n.a. | W 6 |
| T 7 | 22 50 26 | 10°36'22 | 23° 4 | 14° 7 | 8°23 | 15°32 | 3°34 | 7°45 | 20°10 | 24°48 | 7°29 | 4°53 | 3°32 | 23°43 | n.a. | T 7 |
| F 8 | 22 54 23 | 11°35'39 | 7♒19 | 15°50 | 9°38 | 16°13 | 3°45 | 7°41 | 20° 8 | 24°47 | 7°29 | 4°50 | 3°29 | 23°50 | n.a. | F 8 |
| S 9 | 22 58 19 | 12°34'58 | 21°30 | 17°31 | 10°53 | 16°53 | 3°55 | 7°37 | 20° 6 | 24°46 | 7°28 | 4°43 | 3°26 | 23°57 | n.a. | S 9 |
| S 10 | 23 2 16 | 13°34'20 | 5♓33 | 19°12 | 12° 8 | 17°33 | 4° 6 | 7°33 | 20° 4 | 24°45 | 7°28 | 4°34 | 3°23 | 24° 3 | n.a. | S 10 |
| M11 | 23 6 12 | 14°33'43 | 19°22 | 20°51 | 13°23 | 18°13 | 4°17 | 7°29 | 20° 2 | 24°44 | 7°27 | 4°23 | 3°20 | 24°10 | n.a. | M11 |
| T 12 | 23 10 9 | 15°33'08 | 2♈54 | 22°31 | 14°38 | 18°54 | 4°28 | 7°25 | 19°59 | 24°42 | 7°26 | 4°12 | 3°16 | 24°17 | n.a. | T 12 |
| W13 | 23 14 6 | 16°32'36 | 16° 6 | 24° 9 | 15°54 | 19°34 | 4°39 | 7°20 | 19°57 | 24°41 | 7°26 | 4° 0 | 3°13 | 24°23 | n.a. | W13 |
| T 14 | 23 18 2 | 17°32'06 | 28°58 | 25°47 | 17° 9 | 20°14 | 4°50 | 7°16 | 19°55 | 24°40 | 7°25 | 3°50 | 3°10 | 24°30 | n.a. | T 14 |
| F 15 | 23 21 59 | 18°31'38 | 11♉29 | 27°24 | 18°24 | 20°55 | 5° 1 | 7°11 | 19°53 | 24°39 | 7°24 | 3°42 | 3° 7 | 24°37 | n.a. | F 15 |
| S 16 | 23 25 55 | 19°31'13 | 23°42 | 29° 0 | 19°39 | 21°35 | 5°12 | 7° 7 | 19°51 | 24°37 | 7°24 | 3°37 | 3° 4 | 24°43 | n.a. | S 16 |
| S 17 | 23 29 52 | 20°30'50 | 5♊42 | 0♎35 | 20°54 | 22°16 | 5°24 | 7° 2 | 19°49 | 24°36 | 7°23 | 3°34 | 3° 1 | 24°50 | n.a. | S 17 |
| M18 | 23 33 48 | 21°30'30 | 17°34 | 2°10 | 22°10 | 22°56 | 5°35 | 6°58 | 19°47 | 24°35 | 7°22 | 3°D33 | 2°57 | 24°56 | n.a. | M18 |
| T 19 | 23 37 45 | 22°30'11 | 29°21 | 3°45 | 23°25 | 23°37 | 5°46 | 6°53 | 19°45 | 24°33 | 7°21 | 3°R33 | 2°54 | 25° 3 | n.a. | T 19 |
| W20 | 23 41 41 | 23°29'56 | 11♋11 | 5°18 | 24°40 | 24°18 | 5°58 | 6°48 | 19°44 | 24°32 | 7°21 | 3°33 | 2°51 | 25°10 | n.a. | W20 |
| T 21 | 23 45 38 | 24°29'42 | 23° 9 | 6°51 | 25°55 | 24°58 | 6°10 | 6°44 | 19°42 | 24°30 | 7°20 | 3°32 | 2°48 | 25°16 | n.a. | T 21 |
| F 22 | 23 49 34 | 25°29'31 | 5♌19 | 8°24 | 27°11 | 25°39 | 6°21 | 6°39 | 19°40 | 24°29 | 7°19 | 3°28 | 2°45 | 25°23 | n.a. | F 22 |
| S 23 | 23 53 31 | 26°29'22 | 17°46 | 9°55 | 28°26 | 26°20 | 6°33 | 6°34 | 19°38 | 24°28 | 7°18 | 3°22 | 2°42 | 25°30 | n.a. | S 23 |
| S 24 | 23 57 28 | 27°29'15 | 0♍32 | 11°27 | 29°41 | 27° 1 | 6°45 | 6°30 | 19°36 | 24°26 | 7°17 | 3°13 | 2°38 | 25°36 | n.a. | S 24 |
| M25 | 0 1 24 | 28°29'11 | 13°38 | 12°57 | 0♎57 | 27°42 | 6°57 | 6°25 | 19°35 | 24°25 | 7°17 | 3° 1 | 2°35 | 25°43 | n.a. | M25 |
| T 26 | 0 5 21 | 29°29'08 | 27° 5 | 14°27 | 2°12 | 28°23 | 7° 9 | 6°20 | 19°33 | 24°23 | 7°16 | 2°49 | 2°32 | 25°50 | n.a. | T 26 |
| W27 | 0 9 17 | 0♎29'08 | 10♎49 | 15°57 | 3°27 | 29° 4 | 7°21 | 6°15 | 19°31 | 24°22 | 7°15 | 2°36 | 2°29 | 25°56 | n.a. | W27 |
| T 28 | 0 13 14 | 1°29'10 | 24°46 | 17°26 | 4°43 | 29°45 | 7°33 | 6°10 | 19°30 | 24°20 | 7°14 | 2°24 | 2°26 | 26° 3 | n.a. | T 28 |
| F 29 | 0 17 10 | 2°29'13 | 8♏53 | 18°54 | 5°58 | 0♎26 | 7°45 | 6° 5 | 19°28 | 24°18 | 7°13 | 2°14 | 2°22 | 26°10 | n.a. | F 29 |
| S 30 | 0 21 7 | 3♎29'18 | 23♏ 4 | 20♎22 | 7♎13 | 1♎ 7 | 7♏58 | 6♈ 0 | 19♒27 | 24♈17 | 7♉12 | 2♑ 8 | 2♑19 | 26♊16 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 9n54 | 15s27 | 4s40 | 11n45 | 1n34 | 12n36 | 1n25 | 8n 6 | 0n51 | 11s45 | 0n48 | 0n40 | 2s50 | 15s36 | 0s48 | 7n53 | 2s 0 | 2n12 | 12s39 | 23s37 | 23s39 | 24n29 | | n.a. |
| S 2 | 9 32 | 19 35 | 4 2 | 11 1 | 1 30 | 12 9 | 1 25 | 7 50 | 0 51 | 11 48 | 0 48 | 0 39 | 2 50 | 15 37 | 0 48 | 7 53 | 2 0 | 2 12 | 12 40 | 23 37 | 23 39 | 24 29 | | n.a. |
| S 3 | 9 10 | 22 39 | 3 11 | 10 17 | 1 25 | 11 42 | 1 25 | 7 35 | 0 50 | 11 52 | 0 47 | 0 37 | 2 50 | 15 38 | 0 48 | 7 53 | 2 0 | 2 11 | 12 40 | 23 37 | 23 39 | 24 28 | | n.a. |
| M 4 | 8 48 | 24 21 | 2 7 | 9 33 | 1 21 | 11 14 | 1 25 | 7 19 | 0 50 | 11 56 | 0 47 | 0 35 | 2 50 | 15 38 | 0 48 | 7 52 | 2 0 | 2 11 | 12 40 | 23 37 | 23 39 | 24 28 | | n.a. |
| T 5 | 8 25 | 24 30 | 0 55 | 8 49 | 1 16 | 10 46 | 1 25 | 7 3 | 0 50 | 11 59 | 0 47 | 0 34 | 2 50 | 15 39 | 0 48 | 7 52 | 2 0 | 2 11 | 12 40 | 23 37 | 23 39 | 24 27 | | n.a. |
| W 6 | 8 3 | 23 4 | 0n21 | 8 4 | 1 10 | 10 18 | 1 24 | 6 47 | 0 49 | 12 3 | 0 47 | 0 32 | 2 50 | 15 40 | 0 48 | 7 51 | 2 0 | 2 10 | 12 40 | 23 37 | 23 39 | 24 27 | | n.a. |
| T 7 | 7 40 | 20 9 | 1 35 | 7 19 | 1 5 | 9 49 | 1 24 | 6 31 | 0 49 | 12 7 | 0 47 | 0 30 | 2 51 | 15 40 | 0 48 | 7 51 | 2 0 | 2 10 | 12 41 | 23 37 | 23 40 | 24 26 | | n.a. |
| F 8 | 7 18 | 16 1 | 2 43 | 6 33 | 0 59 | 9 20 | 1 24 | 6 14 | 0 48 | 12 11 | 0 46 | 0 28 | 2 51 | 15 41 | 0 48 | 7 50 | 2 0 | 2 10 | 12 41 | 23 37 | 23 40 | 24 26 | | n.a. |
| S 9 | 6 55 | 11 0 | 3 41 | 5 48 | 0 53 | 8 51 | 1 23 | 5 58 | 0 48 | 12 14 | 0 46 | 0 27 | 2 51 | 15 42 | 0 48 | 7 50 | 2 0 | 2 9 | 12 41 | 23 37 | 23 40 | 24 25 | | n.a. |
| S 10 | 6 32 | 5 29 | 4 25 | 5 3 | 0 47 | 8 22 | 1 23 | 5 42 | 0 47 | 12 18 | 0 46 | 0 25 | 2 51 | 15 42 | 0 47 | 7 49 | 2 0 | 2 9 | 12 41 | 23 38 | 23 40 | 24 24 | | n.a. |
| M11 | 6 9 | 0n13 | 4 52 | 4 17 | 0 41 | 7 52 | 1 22 | 5 26 | 0 47 | 12 22 | 0 46 | 0 23 | 2 51 | 15 43 | 0 47 | 7 49 | 2 0 | 2 9 | 12 41 | 23 38 | 23 40 | 24 24 | | n.a. |
| T 12 | 5 45 | 5 46 | 5 2 | 3 32 | 0 35 | 7 22 | 1 22 | 5 9 | 0 47 | 12 26 | 0 46 | 0 21 | 2 51 | 15 44 | 0 47 | 7 48 | 2 0 | 2 8 | 12 41 | 23 38 | 23 40 | 24 23 | | n.a. |
| W13 | 5 22 | 10 56 | 4 55 | 2 47 | 0 28 | 6 52 | 1 21 | 4 53 | 0 46 | 12 30 | 0 45 | 0 19 | 2 51 | 15 44 | 0 47 | 7 48 | 2 1 | 2 8 | 12 42 | 23 39 | 23 40 | 24 23 | | n.a. |
| T 14 | 4 59 | 15 29 | 4 34 | 2 2 | 0 22 | 6 22 | 1 21 | 4 36 | 0 46 | 12 34 | 0 45 | 0 18 | 2 52 | 15 45 | 0 47 | 7 47 | 2 1 | 2 7 | 12 42 | 23 39 | 23 40 | 24 22 | | n.a. |
| F 15 | 4 35 | 19 14 | 4 0 | 1 17 | 0 15 | 5 52 | 1 20 | 4 20 | 0 45 | 12 38 | 0 45 | 0 16 | 2 52 | 15 46 | 0 47 | 7 47 | 2 1 | 2 7 | 12 42 | 23 39 | 23 40 | 24 21 | | n.a. |
| S 16 | 4 12 | 22 3 | 3 15 | 0 32 | 0 8 | 5 21 | 1 19 | 4 3 | 0 45 | 12 42 | 0 45 | 0 14 | 2 52 | 15 46 | 0 47 | 7 46 | 2 1 | 2 7 | 12 42 | 23 39 | 23 40 | 24 21 | | n.a. |
| S 17 | 3 48 | 23 50 | 2 22 | 0s13 | 0 2 | 4 50 | 1 18 | 3 47 | 0 44 | 12 46 | 0 45 | 0 12 | 2 52 | 15 47 | 0 47 | 7 46 | 2 1 | 2 6 | 12 42 | 23 39 | 23 40 | 24 20 | | n.a. |
| M18 | 3 24 | 24 31 | 1 24 | 0 57 | 0s 5 | 4 19 | 1 17 | 3 30 | 0 44 | 12 50 | 0 45 | 0 10 | 2 52 | 15 48 | 0 47 | 7 45 | 2 1 | 2 6 | 12 42 | 23 39 | 23 40 | 24 20 | | n.a. |
| T 19 | 3 0 | 24 5 | 0 22 | 1 41 | 0 12 | 3 48 | 1 16 | 3 14 | 0 43 | 12 54 | 0 44 | 0 8 | 2 52 | 15 48 | 0 47 | 7 45 | 2 1 | 2 6 | 12 43 | 23 39 | 23 40 | 24 19 | | n.a. |
| W20 | 2 37 | 22 33 | 0s40 | 2 25 | 0 19 | 3 17 | 1 15 | 2 57 | 0 43 | 12 58 | 0 44 | 0 6 | 2 52 | 15 49 | 0 47 | 7 44 | 2 1 | 2 5 | 12 43 | 23 40 | 23 41 | 24 18 | | n.a. |
| T 21 | 2 13 | 20 1 | 1 42 | 3 9 | 0 26 | 2 46 | 1 14 | 2 40 | 0 43 | 13 2 | 0 44 | 0 4 | 2 52 | 15 49 | 0 47 | 7 44 | 2 1 | 2 5 | 12 43 | 23 40 | 23 41 | 24 18 | | n.a. |
| F 22 | 1 49 | 16 34 | 2 40 | 3 52 | 0 33 | 2 15 | 1 13 | 2 23 | 0 42 | 13 6 | 0 44 | 0 2 | 2 52 | 15 50 | 0 47 | 7 43 | 2 1 | 2 4 | 12 43 | 23 40 | 23 41 | 24 17 | | n.a. |
| S 23 | 1 25 | 12 20 | 3 31 | 4 35 | 0 39 | 1 43 | 1 11 | 2 7 | 0 42 | 13 10 | 0 44 | 0 0 | 2 52 | 15 50 | 0 47 | 7 43 | 2 1 | 2 4 | 12 43 | 23 40 | 23 41 | 24 16 | | n.a. |
| S 24 | 1 1 | 7 28 | 4 14 | 5 17 | 0 46 | 1 12 | 1 10 | 1 50 | 0 41 | 13 14 | 0 44 | 0s 2 | 2 52 | 15 51 | 0 47 | 7 42 | 2 1 | 2 4 | 12 43 | 23 40 | 23 41 | 24 16 | | n.a. |
| M25 | 0 37 | 2 9 | 4 44 | 5 59 | 0 53 | 0 40 | 1 9 | 1 33 | 0 41 | 13 18 | 0 44 | 0 4 | 2 52 | 15 51 | 0 47 | 7 42 | 2 1 | 2 3 | 12 44 | 23 40 | 23 41 | 24 15 | | n.a. |
| T 26 | 0 12 | 3s23 | 4 59 | 6 41 | 1 0 | 0 9 | 1 7 | 1 16 | 0 40 | 13 22 | 0 43 | 0 6 | 2 52 | 15 52 | 0 47 | 7 41 | 2 1 | 2 3 | 12 44 | 23 41 | 23 41 | 24 15 | | n.a. |
| W27 | 0s12 | 8 52 | 4 57 | 7 22 | 1 6 | 0s23 | 1 6 | 0 59 | 0 40 | 13 26 | 0 43 | 0 8 | 2 52 | 15 52 | 0 47 | 7 40 | 2 1 | 2 2 | 12 44 | 23 41 | 23 41 | 24 14 | | n.a. |
| T 28 | 0 36 | 14 0 | 4 38 | 8 2 | 1 13 | 0 54 | 1 4 | 0 42 | 0 39 | 13 30 | 0 43 | 0 9 | 2 52 | 15 53 | 0 47 | 7 40 | 2 1 | 2 2 | 12 44 | 23 41 | 23 41 | 24 13 | | n.a. |
| F 29 | 1 0 | 18 26 | 4 2 | 8 42 | 1 19 | 1 26 | 1 3 | 0 25 | 0 39 | 13 35 | 0 43 | 0 11 | 2 53 | 15 53 | 0 47 | 7 39 | 2 1 | 2 2 | 12 44 | 23 41 | 23 41 | 24 13 | | n.a. |
| S 30 | 1s24 | 21s49 | 3s10 | 9s22 | 1s26 | 1s58 | 1n 1 | 0n 8 | 0n38 | 13s39 | 0n43 | 0s13 | 2s53 | 15s54 | 0s47 | 7n39 | 2s 1 | 2n 1 | 12s44 | 23s41 | 23s41 | 24n12 | | n.a. |

Julian Day Number = 1687332.5, Delta T = 03h12m19s
Ecliptic obliquity = 23°42'24, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°21'13, Lahiri = - 5°14'13 Julian Calendar 1 Sept. 94 BCE == Greg. Calendar 30 Aug. 094 BCE

The year -93 astronomical counting style corresponds to year 094 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 94 BCE
# geocentric

## OCTOBER 94 BCE (-93) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 0 25 3 | 4♎29'25 | 7♐16 | 21♎49 | 8♎29 | 1♎48 | 8♏10 | 5°R56 | 19°R25 | 24°R15 | 7°R11 | 2°R 4 | 2♋16 | 26♊23 | n.a. | S 1 |
| M 2 | 0 29 0 | 5°29'34 | 21°26 | 23°15 | 9°44 | 2°29 | 8°22 | 5♈51 | 19♒24 | 24♈14 | 7♉10 | 2♋ 2 | 2°13 | 26°29 | n.a. | M 2 |
| T 3 | 0 32 57 | 6°29'45 | 5♋33 | 24°41 | 10°59 | 3°10 | 8°35 | 5°46 | 19°22 | 24°12 | 7° 9 | 2° 2 | 2°10 | 26°36 | n.a. | T 3 |
| W 4 | 0 36 53 | 7°29'57 | 19°35 | 26° 6 | 12°15 | 3°52 | 8°47 | 5°41 | 19°21 | 24°11 | 7° 8 | 2° 2 | 2° 7 | 26°43 | n.a. | W 4 |
| T 5 | 0 40 50 | 8°30'10 | 3♒32 | 27°30 | 13°30 | 4°33 | 9° 0 | 5°36 | 19°19 | 24° 9 | 7° 7 | 2° 0 | 2° 3 | 26°49 | n.a. | T 5 |
| F 6 | 0 44 46 | 9°30'25 | 17°24 | 28°54 | 14°45 | 5°14 | 9°13 | 5°31 | 19°18 | 24° 7 | 7° 6 | 1°56 | 2° 0 | 26°56 | n.a. | F 6 |
| S 7 | 0 48 43 | 10°30'42 | 1♓ 9 | 0♏16 | 16° 1 | 5°56 | 9°25 | 5°26 | 19°17 | 24° 6 | 7° 5 | 1°49 | 1°57 | 27° 3 | n.a. | S 7 |
| S 8 | 0 52 39 | 11°31'01 | 14°46 | 1°38 | 17°16 | 6°37 | 9°38 | 5°21 | 19°16 | 24° 4 | 7° 4 | 1°39 | 1°54 | 27° 9 | n.a. | S 8 |
| M 9 | 0 56 36 | 12°31'20 | 28°11 | 2°59 | 18°31 | 7°19 | 9°51 | 5°17 | 19°15 | 24° 2 | 7° 3 | 1°27 | 1°51 | 27°16 | n.a. | M 9 |
| T 10 | 1 0 32 | 13°31'42 | 11♈23 | 4°18 | 19°47 | 8° 0 | 10° 3 | 5°12 | 19°13 | 24° 1 | 7° 2 | 1°14 | 1°47 | 27°23 | n.a. | T 10 |
| W11 | 1 4 29 | 14°32'06 | 24°20 | 5°37 | 21° 2 | 8°42 | 10°16 | 5° 7 | 19°12 | 23°59 | 7° 1 | 1° 1 | 1°44 | 27°29 | n.a. | W11 |
| T 12 | 1 8 25 | 15°32'31 | 7♉ 0 | 6°53 | 22°17 | 9°23 | 10°29 | 5° 2 | 19°11 | 23°57 | 7° 0 | 0°49 | 1°41 | 27°36 | n.a. | T 12 |
| F 13 | 1 12 22 | 16°32'58 | 19°25 | 8° 9 | 23°33 | 10° 5 | 10°42 | 4°58 | 19°10 | 23°56 | 6°59 | 0°40 | 1°38 | 27°43 | n.a. | F 13 |
| S 14 | 1 16 19 | 17°33'28 | 1♊35 | 9°23 | 24°48 | 10°47 | 10°55 | 4°53 | 19° 9 | 23°54 | 6°58 | 0°34 | 1°35 | 27°49 | n.a. | S 14 |
| S 15 | 1 20 15 | 18°33'59 | 13°33 | 10°35 | 26° 3 | 11°28 | 11° 8 | 4°48 | 19° 9 | 23°52 | 6°57 | 0°30 | 1°32 | 27°56 | n.a. | S 15 |
| M16 | 1 24 12 | 19°34'32 | 25°23 | 11°44 | 27°19 | 12°10 | 11°21 | 4°44 | 19° 8 | 23°51 | 6°56 | 0°D29 | 1°28 | 28° 3 | n.a. | M16 |
| T 17 | 1 28 8 | 20°35'06 | 7♋10 | 12°52 | 28°34 | 12°52 | 11°34 | 4°39 | 19° 7 | 23°49 | 6°55 | 0°29 | 1°25 | 28° 9 | n.a. | T 17 |
| W18 | 1 32 5 | 21°35'43 | 18°59 | 13°57 | 29°49 | 13°34 | 11°48 | 4°34 | 19° 6 | 23°47 | 6°54 | 0°R29 | 1°22 | 28°16 | n.a. | W18 |
| T 19 | 1 36 1 | 22°36'22 | 0♌56 | 14°58 | 1♏ 5 | 14°16 | 12° 1 | 4°30 | 19° 5 | 23°46 | 6°53 | 0°29 | 1°19 | 28°22 | n.a. | T 19 |
| F 20 | 1 39 58 | 23°37'02 | 13° 5 | 15°57 | 2°20 | 14°58 | 12°14 | 4°25 | 19° 5 | 23°44 | 6°52 | 0°27 | 1°16 | 28°29 | n.a. | F 20 |
| S 21 | 1 43 54 | 24°37'44 | 25°33 | 16°51 | 3°35 | 15°40 | 12°27 | 4°21 | 19° 4 | 23°42 | 6°50 | 0°23 | 1°13 | 28°36 | n.a. | S 21 |
| S 22 | 1 47 51 | 25°38'28 | 8♍24 | 17°41 | 4°51 | 16°22 | 12°40 | 4°17 | 19° 4 | 23°40 | 6°49 | 0°16 | 1° 9 | 28°42 | n.a. | S 22 |
| M23 | 1 51 48 | 26°39'13 | 21°38 | 18°26 | 6° 6 | 17° 4 | 12°54 | 4°12 | 19° 3 | 23°39 | 6°48 | 0° 7 | 1° 6 | 28°49 | n.a. | M23 |
| T 24 | 1 55 44 | 27°40'00 | 5♎18 | 19° 6 | 7°21 | 17°46 | 13° 7 | 4° 8 | 19° 3 | 23°37 | 6°47 | 29♐57 | 1° 3 | 28°56 | n.a. | T 24 |
| W25 | 1 59 41 | 28°40'49 | 19°21 | 19°39 | 8°37 | 18°28 | 13°21 | 4° 4 | 19° 2 | 23°35 | 6°46 | 29°46 | 1° 0 | 29° 2 | n.a. | W25 |
| T 26 | 2 3 37 | 29°41'39 | 3♏42 | 20° 5 | 9°52 | 19°11 | 13°34 | 4° 0 | 19° 2 | 23°34 | 6°45 | 29°36 | 0°57 | 29° 9 | n.a. | T 26 |
| F 27 | 2 7 34 | 0♏42'31 | 18°15 | 20°23 | 11° 8 | 19°53 | 13°47 | 3°55 | 19° 2 | 23°32 | 6°44 | 29°28 | 0°53 | 29°16 | n.a. | F 27 |
| S 28 | 2 11 30 | 1°43'24 | 2♐54 | 20°33 | 12°23 | 20°35 | 14° 1 | 3°51 | 19° 1 | 23°30 | 6°43 | 29°23 | 0°50 | 29°22 | n.a. | S 28 |
| S 29 | 2 15 27 | 2°44'18 | 17°31 | 20°R33 | 13°38 | 21°18 | 14°14 | 3°47 | 19° 1 | 23°29 | 6°41 | 29°20 | 0°47 | 29°29 | n.a. | S 29 |
| M30 | 2 19 23 | 3°45'13 | 2♋ 0 | 20°24 | 14°54 | 22° 0 | 14°28 | 3°44 | 19° 1 | 23°27 | 6°40 | 29°D19 | 0°44 | 29°36 | n.a. | M30 |
| T 31 | 2 23 20 | 4♏46'09 | 16♋19 | 20♏ 3 | 16♏ 9 | 22♎43 | 14♏41 | 3♈40 | 19♒ 1 | 23♈25 | 6♉39 | 29♐20 | 0♋41 | 29♊42 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| S 1 | 1s48 | 23s51 | 2s 7 | 10s 0 | 1s32 | 2s29 | 1n 0 | 0s 9 | 0n38 | 13s43 | 0n43 | 0s15 | 2s53 | 15s54 | 0s47 | 7n38 | 2s 1 | 2n 1 | 12s44 | 23s41 | 23s41 | 24n11 | | | n.a. |
| M 2 | 2 12 | 24 21 | 0 56 | 10 39 | 1 38 | 3 1 | 0 58 | 0 26 | 0 37 | 13 47 | 0 42 | 0 17 | 2 53 | 15 55 | 0 47 | 7 37 | 2 1 | 2 0 | 12 44 | 23 41 | 23 41 | 24 10 | | | n.a. |
| T 3 | 2 36 | 23 17 | 0n19 | 11 16 | 1 44 | 3 32 | 0 56 | 0 43 | 0 37 | 13 51 | 0 42 | 0 19 | 2 53 | 15 55 | 0 47 | 7 37 | 2 1 | 2 0 | 12 45 | 23 41 | 23 41 | 24 10 | | | n.a. |
| W 4 | 3 0 | 20 45 | 1 31 | 11 53 | 1 50 | 4 3 | 0 54 | 1 0 | 0 36 | 13 55 | 0 42 | 0 21 | 2 52 | 15 56 | 0 47 | 7 36 | 2 1 | 2 0 | 12 45 | 23 41 | 23 41 | 24 9 | | | n.a. |
| T 5 | 3 24 | 17 1 | 2 38 | 12 29 | 1 55 | 4 35 | 0 53 | 1 17 | 0 36 | 14 0 | 0 42 | 0 23 | 2 52 | 15 56 | 0 47 | 7 36 | 2 1 | 1 59 | 12 45 | 23 41 | 23 41 | 24 8 | | | n.a. |
| F 6 | 3 48 | 12 22 | 3 35 | 13 5 | 2 0 | 5 6 | 0 51 | 1 34 | 0 35 | 14 4 | 0 42 | 0 25 | 2 52 | 15 56 | 0 47 | 7 35 | 2 1 | 1 59 | 12 45 | 23 42 | 23 41 | 24 8 | | | n.a. |
| S 7 | 4 12 | 7 9 | 4 19 | 13 39 | 2 6 | 5 37 | 0 49 | 1 51 | 0 35 | 14 8 | 0 42 | 0 27 | 2 52 | 15 57 | 0 47 | 7 34 | 2 1 | 1 58 | 12 45 | 23 42 | 23 42 | 24 7 | | | n.a. |
| S 8 | 4 36 | 1 39 | 4 48 | 14 13 | 2 10 | 6 8 | 0 47 | 2 8 | 0 34 | 14 12 | 0 42 | 0 29 | 2 52 | 15 57 | 0 47 | 7 34 | 2 1 | 1 58 | 12 45 | 23 42 | 23 42 | 24 6 | | | n.a. |
| M 9 | 5 0 | 3n51 | 5 0 | 14 45 | 2 15 | 6 39 | 0 45 | 2 25 | 0 34 | 14 16 | 0 41 | 0 31 | 2 52 | 15 57 | 0 47 | 7 33 | 2 1 | 1 58 | 12 45 | 23 42 | 23 42 | 24 5 | | | n.a. |
| T 10 | 5 24 | 9 5 | 4 56 | 15 17 | 2 19 | 7 10 | 0 43 | 2 42 | 0 33 | 14 21 | 0 41 | 0 33 | 2 52 | 15 58 | 0 47 | 7 32 | 2 1 | 1 57 | 12 45 | 23 42 | 23 42 | 24 5 | | | n.a. |
| W11 | 5 47 | 13 49 | 4 37 | 15 47 | 2 23 | 7 40 | 0 41 | 2 59 | 0 33 | 14 25 | 0 41 | 0 34 | 2 52 | 15 58 | 0 47 | 7 32 | 2 1 | 1 57 | 12 45 | 23 42 | 23 42 | 24 4 | | | n.a. |
| T 12 | 6 11 | 17 50 | 4 4 | 16 17 | 2 27 | 8 10 | 0 39 | 3 16 | 0 32 | 14 29 | 0 41 | 0 36 | 2 52 | 15 58 | 0 47 | 7 31 | 2 1 | 1 56 | 12 45 | 23 42 | 23 42 | 24 3 | | | n.a. |
| F 13 | 6 35 | 20 59 | 3 20 | 16 45 | 2 30 | 8 41 | 0 36 | 3 33 | 0 32 | 14 33 | 0 41 | 0 38 | 2 52 | 15 59 | 0 47 | 7 31 | 2 1 | 1 56 | 12 45 | 23 42 | 23 42 | 24 2 | | | n.a. |
| S 14 | 6 58 | 23 6 | 2 27 | 17 12 | 2 33 | 9 11 | 0 34 | 3 50 | 0 31 | 14 37 | 0 41 | 0 40 | 2 52 | 15 59 | 0 47 | 7 30 | 2 1 | 1 56 | 12 45 | 23 42 | 23 42 | 24 2 | | | n.a. |
| S 15 | 7 21 | 24 9 | 1 29 | 17 37 | 2 36 | 9 40 | 0 32 | 4 7 | 0 31 | 14 42 | 0 41 | 0 42 | 2 52 | 15 59 | 0 47 | 7 29 | 2 1 | 1 55 | 12 45 | 23 42 | 23 42 | 24 1 | | | n.a. |
| M16 | 7 44 | 24 5 | 0 27 | 18 1 | 2 38 | 10 10 | 0 30 | 4 24 | 0 30 | 14 46 | 0 41 | 0 44 | 2 52 | 15 59 | 0 47 | 7 29 | 2 1 | 1 55 | 12 46 | 23 42 | 23 42 | 24 0 | | | n.a. |
| T 17 | 8 8 | 22 55 | 0s36 | 18 24 | 2 39 | 10 39 | 0 28 | 4 41 | 0 30 | 14 50 | 0 40 | 0 45 | 2 52 | 16 0 | 0 47 | 7 28 | 2 1 | 1 54 | 12 46 | 23 42 | 23 42 | 23 59 | | | n.a. |
| W18 | 8 31 | 20 45 | 1 37 | 18 44 | 2 40 | 11 8 | 0 25 | 4 58 | 0 29 | 14 54 | 0 40 | 0 47 | 2 52 | 16 0 | 0 46 | 7 27 | 2 1 | 1 54 | 12 46 | 23 42 | 23 42 | 23 58 | | | n.a. |
| T 19 | 8 53 | 17 39 | 2 35 | 19 3 | 2 40 | 11 37 | 0 23 | 5 15 | 0 29 | 14 58 | 0 40 | 0 49 | 2 51 | 16 0 | 0 46 | 7 27 | 2 1 | 1 54 | 12 46 | 23 42 | 23 42 | 23 58 | | | n.a. |
| F 20 | 9 16 | 13 46 | 3 27 | 19 20 | 2 39 | 12 6 | 0 21 | 5 32 | 0 28 | 15 3 | 0 40 | 0 50 | 2 51 | 16 0 | 0 46 | 7 26 | 2 1 | 1 53 | 12 46 | 23 42 | 23 42 | 23 57 | | | n.a. |
| S 21 | 9 39 | 9 13 | 4 10 | 19 35 | 2 38 | 12 34 | 0 18 | 5 49 | 0 27 | 15 7 | 0 40 | 0 52 | 2 51 | 16 0 | 0 46 | 7 25 | 2 1 | 1 53 | 12 46 | 23 42 | 23 42 | 23 56 | | | n.a. |
| S 22 | 10 1 | 4 9 | 4 42 | 19 47 | 2 36 | 13 2 | 0 16 | 6 6 | 0 27 | 15 11 | 0 40 | 0 54 | 2 51 | 16 0 | 0 46 | 7 25 | 2 1 | 1 53 | 12 46 | 23 42 | 23 42 | 23 55 | | | n.a. |
| M23 | 10 23 | 1s15 | 5 1 | 19 57 | 2 32 | 13 29 | 0 14 | 6 22 | 0 26 | 15 15 | 0 40 | 0 55 | 2 51 | 16 1 | 0 46 | 7 24 | 2 1 | 1 52 | 12 46 | 23 42 | 23 42 | 23 54 | | | n.a. |
| T 24 | 10 46 | 6 45 | 5 3 | 20 4 | 2 28 | 13 57 | 0 11 | 6 39 | 0 26 | 15 19 | 0 40 | 0 57 | 2 51 | 16 1 | 0 46 | 7 24 | 2 1 | 1 52 | 12 46 | 23 42 | 23 42 | 23 54 | | | n.a. |
| W25 | 11 8 | 12 4 | 4 47 | 20 8 | 2 23 | 14 23 | 0 9 | 6 56 | 0 25 | 15 23 | 0 40 | 0 58 | 2 51 | 16 1 | 0 46 | 7 23 | 2 1 | 1 51 | 12 46 | 23 42 | 23 42 | 23 53 | | | n.a. |
| T 26 | 11 29 | 16 50 | 4 12 | 20 8 | 2 16 | 14 50 | 0 7 | 7 13 | 0 25 | 15 28 | 0 39 | 1 0 | 2 51 | 16 1 | 0 46 | 7 22 | 2 1 | 1 51 | 12 46 | 23 42 | 23 42 | 23 52 | | | n.a. |
| F 27 | 11 51 | 20 41 | 3 21 | 20 6 | 2 8 | 15 16 | 0 4 | 7 29 | 0 24 | 15 32 | 0 39 | 1 1 | 2 50 | 16 1 | 0 46 | 7 22 | 2 1 | 1 51 | 12 46 | 23 42 | 23 42 | 23 51 | | | n.a. |
| S 28 | 12 12 | 23 12 | 2 17 | 19 59 | 1 58 | 15 42 | 0 2 | 7 46 | 0 24 | 15 36 | 0 39 | 1 3 | 2 50 | 16 1 | 0 46 | 7 21 | 2 1 | 1 50 | 12 46 | 23 42 | 23 42 | 23 50 | | | n.a. |
| S 29 | 12 33 | 24 9 | 1 3 | 19 49 | 1 47 | 16 7 | 0s 1 | 8 3 | 0 23 | 15 40 | 0 39 | 1 4 | 2 50 | 16 1 | 0 46 | 7 21 | 2 1 | 1 50 | 12 46 | 23 42 | 23 42 | 23 49 | | | n.a. |
| M30 | 12 54 | 23 27 | 0n14 | 19 34 | 1 35 | 16 32 | 0 3 | 8 19 | 0 22 | 15 44 | 0 39 | 1 6 | 2 50 | 16 1 | 0 46 | 7 20 | 2 1 | 1 50 | 12 46 | 23 42 | 23 42 | 23 49 | | | n.a. |
| T 31 | 13s15 | 21s12 | 1n30 | 19s15 | 1s21 | 16s57 | 0s 6 | 8s36 | 0n22 | 15s48 | 0n39 | 1s 7 | 2s50 | 16s 1 | 0s46 | 7n19 | 2s 1 | 1n49 | 12s46 | 23s42 | 23s42 | 23n48 | | | n.a. |

Julian Day Number = 1687362.5, Delta T = 03h12m18s
Ecliptic obliquity = 23°42'24, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°21'09, Lahiri = - 5°14'08 Julian Calendar 1 Oct. 94 BCE == Greg. Calendar 29 Sept. 094 BCE

The year -93 astronomical counting style corresponds to year 094 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 94 BCE
# geocentric

## NOVEMBER 94 BCE (-93) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 2 27 17 | 5♏47'06 | 0♒25 | 19°R32 | 17♏24 | 23♎25 | 14♏55 | 3°R36 | 19°D 1 | 23°R24 | 6°R38 | 29°R21 | 0♋38 | 29♊49 | n.a. | W 1 |
| T 2 | 2 31 13 | 6°48'03 | 14°18 | 18♏50 | 18°39 | 24° 8 | 15° 8 | 3♈32 | 19♒ 1 | 23♈22 | 6♉37 | 29♐21 | 0°34 | 29°55 | n.a. | T 2 |
| F 3 | 2 35 10 | 7°49'02 | 27°57 | 17°57 | 19°55 | 24°50 | 15°22 | 3°29 | 19° 1 | 23°20 | 6°36 | 29°19 | 0°31 | 0♌ 2 | n.a. | F 3 |
| S 4 | 2 39 6 | 8°50'01 | 11♓23 | 16°54 | 21°10 | 25°33 | 15°36 | 3°25 | 19° 1 | 23°19 | 6°35 | 29°14 | 0°28 | 0° 9 | n.a. | S 4 |
| S 5 | 2 43 3 | 9°51'01 | 24°37 | 15°43 | 22°25 | 26°16 | 15°49 | 3°22 | 19° 1 | 23°17 | 6°33 | 29° 8 | 0°25 | 0°15 | n.a. | S 5 |
| M 6 | 2 46 59 | 10°52'02 | 7♈39 | 14°25 | 23°41 | 26°58 | 16° 3 | 3°18 | 19° 1 | 23°15 | 6°32 | 29° 0 | 0°22 | 0°22 | n.a. | M 6 |
| T 7 | 2 50 56 | 11°53'04 | 20°28 | 13° 4 | 24°56 | 27°41 | 16°16 | 3°15 | 19° 2 | 23°14 | 6°31 | 28°51 | 0°18 | 0°29 | n.a. | T 7 |
| W 8 | 2 54 52 | 12°54'06 | 3♉ 5 | 11°41 | 26°11 | 28°24 | 16°30 | 3°12 | 19° 2 | 23°12 | 6°30 | 28°42 | 0°15 | 0°35 | n.a. | W 8 |
| T 9 | 2 58 49 | 13°55'10 | 15°29 | 10°19 | 27°26 | 29° 7 | 16°44 | 3° 9 | 19° 2 | 23°11 | 6°29 | 28°34 | 0°12 | 0°42 | n.a. | T 9 |
| F 10 | 3 2 46 | 14°56'14 | 27°42 | 9° 2 | 28°42 | 29°50 | 16°57 | 3° 6 | 19° 3 | 23° 9 | 6°28 | 28°28 | 0° 9 | 0°49 | n.a. | F 10 |
| S 11 | 3 6 42 | 15°57'20 | 9♊45 | 7°52 | 29°57 | 0♏33 | 17°11 | 3° 3 | 19° 3 | 23° 8 | 6°27 | 28°24 | 0° 6 | 0°55 | n.a. | S 11 |
| S 12 | 3 10 39 | 16°58'26 | 21°39 | 6°50 | 1♐12 | 1°16 | 17°25 | 3° 0 | 19° 4 | 23° 6 | 6°25 | 28°22 | 0° 3 | 1° 2 | n.a. | S 12 |
| M13 | 3 14 35 | 17°59'33 | 3♋28 | 5°58 | 2°27 | 1°59 | 17°38 | 2°57 | 19° 4 | 23° 5 | 6°24 | 28°D22 | 29♐59 | 1° 9 | n.a. | M13 |
| T 14 | 3 18 32 | 19° 0'42 | 15°14 | 5°16 | 3°43 | 2°42 | 17°52 | 2°55 | 19° 5 | 23° 3 | 6°23 | 28°23 | 29°56 | 1°15 | n.a. | T 14 |
| W15 | 3 22 28 | 20° 1'51 | 27° 2 | 4°46 | 4°58 | 3°25 | 18° 6 | 2°52 | 19° 6 | 23° 2 | 6°22 | 28°25 | 29°53 | 1°22 | n.a. | W15 |
| T 16 | 3 26 25 | 21° 3'01 | 8♌58 | 4°28 | 6°13 | 4° 8 | 18°19 | 2°50 | 19° 6 | 23° 0 | 6°21 | 28°26 | 29°50 | 1°29 | n.a. | T 16 |
| F 17 | 3 30 22 | 22° 4'12 | 21° 5 | 4°D20 | 7°28 | 4°51 | 18°33 | 2°48 | 19° 7 | 22°59 | 6°20 | 28°R27 | 29°47 | 1°35 | n.a. | F 17 |
| S 18 | 3 34 18 | 23° 5'23 | 3♍29 | 4°22 | 8°43 | 5°35 | 18°47 | 2°45 | 19° 8 | 22°57 | 6°19 | 28°26 | 29°44 | 1°42 | n.a. | S 18 |
| S 19 | 3 38 15 | 24° 6'36 | 16°16 | 4°33 | 9°59 | 6°18 | 19° 0 | 2°43 | 19° 9 | 22°56 | 6°18 | 28°24 | 29°40 | 1°48 | n.a. | S 19 |
| M20 | 3 42 11 | 25° 7'49 | 29°28 | 4°54 | 11°14 | 7° 1 | 19°14 | 2°41 | 19°10 | 22°54 | 6°17 | 28°21 | 29°37 | 1°55 | n.a. | M20 |
| T 21 | 3 46 8 | 26° 9'03 | 13♎ 7 | 5°22 | 12°29 | 7°45 | 19°28 | 2°39 | 19°11 | 22°53 | 6°16 | 28°16 | 29°34 | 2° 2 | n.a. | T 21 |
| W22 | 3 50 4 | 27°10'18 | 27°14 | 5°57 | 13°44 | 8°28 | 19°41 | 2°37 | 19°12 | 22°52 | 6°15 | 28°11 | 29°31 | 2° 8 | n.a. | W22 |
| T 23 | 3 54 1 | 28°11'33 | 11♏45 | 6°39 | 14°59 | 9°12 | 19°55 | 2°36 | 19°13 | 22°50 | 6°13 | 28° 6 | 29°28 | 2°15 | n.a. | T 23 |
| F 24 | 3 57 57 | 29°12'49 | 26°34 | 7°26 | 16°14 | 9°55 | 20° 8 | 2°34 | 19°14 | 22°49 | 6°12 | 28° 2 | 29°24 | 2°22 | n.a. | F 24 |
| S 25 | 4 1 54 | 0♐14'05 | 11♐35 | 8°18 | 17°29 | 10°39 | 20°22 | 2°33 | 19°15 | 22°48 | 6°11 | 28° 0 | 29°21 | 2°28 | n.a. | S 25 |
| S 26 | 4 5 51 | 1°15'21 | 26°36 | 9°14 | 18°45 | 11°23 | 20°36 | 2°31 | 19°16 | 22°47 | 6°10 | 27°D59 | 29°18 | 2°35 | n.a. | S 26 |
| M27 | 4 9 47 | 2°16'38 | 11♋31 | 10°14 | 20° 0 | 12° 6 | 20°49 | 2°30 | 19°18 | 22°45 | 6° 9 | 28° 0 | 29°15 | 2°42 | n.a. | M27 |
| T 28 | 4 13 44 | 3°17'54 | 26°12 | 11°18 | 21°15 | 12°50 | 21° 3 | 2°29 | 19°19 | 22°44 | 6° 8 | 28° 1 | 29°12 | 2°48 | n.a. | T 28 |
| W29 | 4 17 40 | 4°19'11 | 10♒35 | 12°25 | 22°30 | 13°34 | 21°16 | 2°28 | 19°20 | 22°43 | 6° 7 | 28° 2 | 29° 9 | 2°55 | n.a. | W29 |
| T 30 | 4 21 37 | 5♐20'27 | 24♒37 | 13♏34 | 23♐45 | 14♏17 | 21♏30 | 2♈27 | 19♒22 | 22♈42 | 6♉ 6 | 28♐ 4 | 29♐ 5 | 3♌ 2 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 13s36 | 17s42 | 2n39 | 18s51 | 1s 5 | 17s21 | 0s 8 | 8s52 | 0n21 | 15s52 | 0n39 | 1s 8 | 2s50 | 16s 1 | 0s46 | 7n19 | 2s 1 | 1n49 | 12s46 | 23s42 | 23s42 | 23n47 | | n.a. |
| T 2 | 13 56 | 13 15 | 3 38 | 18 23 | 0 48 | 17 44 | 0 10 | 9 8 | 0 21 | 15 57 | 0 39 | 1 10 | 2 49 | 16 1 | 0 46 | 7 18 | 2 1 | 1 49 | 12 46 | 23 42 | 23 42 | 23 46 | | n.a. |
| F 3 | 14 16 | 8 13 | 4 23 | 17 50 | 0 29 | 18 7 | 0 13 | 9 25 | 0 20 | 16 1 | 0 39 | 1 11 | 2 49 | 16 1 | 0 46 | 7 18 | 2 1 | 1 48 | 12 46 | 23 42 | 23 42 | 23 45 | | n.a. |
| S 4 | 14 36 | 2 52 | 4 53 | 17 14 | 0 10 | 18 30 | 0 15 | 9 41 | 0 20 | 16 5 | 0 39 | 1 12 | 2 49 | 16 1 | 0 46 | 7 17 | 2 1 | 1 48 | 12 46 | 23 42 | 23 42 | 23 44 | | n.a. |
| S 5 | 14 56 | 2n31 | 5 6 | 16 33 | 0n11 | 18 52 | 0 18 | 9 57 | 0 19 | 16 9 | 0 38 | 1 13 | 2 49 | 16 1 | 0 46 | 7 16 | 2 1 | 1 48 | 12 46 | 23 42 | 23 42 | 23 43 | | n.a. |
| M 6 | 15 15 | 7 42 | 5 4 | 15 51 | 0 31 | 19 14 | 0 20 | 10 13 | 0 18 | 16 13 | 0 38 | 1 15 | 2 48 | 16 1 | 0 46 | 7 16 | 2 1 | 1 47 | 12 45 | 23 42 | 23 42 | 23 42 | | n.a. |
| T 7 | 15 34 | 12 29 | 4 46 | 15 7 | 0 52 | 19 35 | 0 23 | 10 29 | 0 18 | 16 17 | 0 38 | 1 16 | 2 48 | 16 1 | 0 46 | 7 15 | 2 1 | 1 47 | 12 45 | 23 42 | 23 42 | 23 41 | | n.a. |
| W 8 | 15 53 | 16 39 | 4 14 | 14 23 | 1 11 | 19 55 | 0 25 | 10 45 | 0 17 | 16 21 | 0 38 | 1 17 | 2 48 | 16 0 | 0 46 | 7 15 | 2 1 | 1 47 | 12 45 | 23 42 | 23 42 | 23 41 | | n.a. |
| T 9 | 16 12 | 20 1 | 3 31 | 13 39 | 1 30 | 20 15 | 0 27 | 11 1 | 0 17 | 16 25 | 0 38 | 1 18 | 2 48 | 16 0 | 0 46 | 7 14 | 2 1 | 1 47 | 12 45 | 23 42 | 23 42 | 23 40 | | n.a. |
| F 10 | 16 30 | 22 26 | 2 39 | 12 59 | 1 47 | 20 35 | 0 30 | 11 17 | 0 16 | 16 29 | 0 38 | 1 19 | 2 48 | 16 0 | 0 46 | 7 14 | 2 1 | 1 46 | 12 45 | 23 42 | 23 42 | 23 39 | | n.a. |
| S 11 | 16 48 | 23 48 | 1 39 | 12 22 | 2 2 | 20 53 | 0 32 | 11 33 | 0 15 | 16 33 | 0 38 | 1 20 | 2 47 | 16 0 | 0 46 | 7 13 | 2 1 | 1 46 | 12 45 | 23 42 | 23 42 | 23 38 | | n.a. |
| S 12 | 17 6 | 24 3 | 0 36 | 11 49 | 2 15 | 21 12 | 0 35 | 11 49 | 0 15 | 16 37 | 0 38 | 1 21 | 2 47 | 16 0 | 0 46 | 7 12 | 2 1 | 1 46 | 12 45 | 23 42 | 23 42 | 23 37 | | n.a. |
| M13 | 17 23 | 23 12 | 0s28 | 11 22 | 2 26 | 21 29 | 0 37 | 12 4 | 0 14 | 16 41 | 0 38 | 1 22 | 2 47 | 15 59 | 0 46 | 7 12 | 2 1 | 1 45 | 12 45 | 23 42 | 23 42 | 23 36 | | n.a. |
| T 14 | 17 40 | 21 19 | 1 31 | 11 0 | 2 34 | 21 46 | 0 39 | 12 20 | 0 14 | 16 45 | 0 38 | 1 22 | 2 47 | 15 59 | 0 45 | 7 11 | 2 1 | 1 45 | 12 45 | 23 42 | 23 42 | 23 35 | | n.a. |
| W15 | 17 57 | 18 32 | 2 30 | 10 44 | 2 41 | 22 3 | 0 41 | 12 35 | 0 13 | 16 49 | 0 38 | 1 23 | 2 46 | 15 59 | 0 45 | 7 11 | 2 1 | 1 45 | 12 45 | 23 42 | 23 42 | 23 34 | | n.a. |
| T 16 | 18 13 | 14 57 | 3 24 | 10 34 | 2 45 | 22 18 | 0 44 | 12 51 | 0 12 | 16 53 | 0 37 | 1 24 | 2 46 | 15 59 | 0 45 | 7 10 | 2 1 | 1 45 | 12 45 | 23 42 | 23 42 | 23 33 | | n.a. |
| F 17 | 18 29 | 10 42 | 4 9 | 10 29 | 2 48 | 22 33 | 0 46 | 13 6 | 0 12 | 16 56 | 0 37 | 1 25 | 2 46 | 15 58 | 0 45 | 7 10 | 2 1 | 1 44 | 12 45 | 23 42 | 23 42 | 23 32 | | n.a. |
| S 18 | 18 45 | 5 56 | 4 44 | 10 28 | 2 49 | 22 48 | 0 48 | 13 21 | 0 11 | 17 0 | 0 37 | 1 25 | 2 46 | 15 58 | 0 45 | 7 9 | 2 1 | 1 44 | 12 44 | 23 42 | 23 42 | 23 31 | | n.a. |
| S 19 | 19 1 | 0 47 | 5 6 | 10 33 | 2 48 | 23 1 | 0 50 | 13 36 | 0 10 | 17 4 | 0 37 | 1 26 | 2 45 | 15 58 | 0 45 | 7 9 | 2 1 | 1 44 | 12 44 | 23 42 | 23 42 | 23 30 | | n.a. |
| M20 | 19 16 | 4s33 | 5 13 | 10 41 | 2 47 | 23 14 | 0 53 | 13 51 | 0 10 | 17 8 | 0 37 | 1 26 | 2 45 | 15 57 | 0 45 | 7 8 | 2 1 | 1 44 | 12 44 | 23 42 | 23 42 | 23 29 | | n.a. |
| T 21 | 19 30 | 9 52 | 5 2 | 10 53 | 2 44 | 23 27 | 0 55 | 14 6 | 0 9 | 17 12 | 0 37 | 1 27 | 2 45 | 15 57 | 0 45 | 7 8 | 2 1 | 1 43 | 12 44 | 23 42 | 23 42 | 23 28 | | n.a. |
| W22 | 19 45 | 14 51 | 4 34 | 11 8 | 2 40 | 23 38 | 0 57 | 14 21 | 0 8 | 17 16 | 0 37 | 1 27 | 2 45 | 15 57 | 0 45 | 7 7 | 2 1 | 1 43 | 12 44 | 23 42 | 23 42 | 23 27 | | n.a. |
| T 23 | 19 59 | 19 7 | 3 47 | 11 26 | 2 36 | 23 49 | 0 59 | 14 36 | 0 8 | 17 19 | 0 37 | 1 28 | 2 44 | 15 56 | 0 45 | 7 7 | 2 1 | 1 43 | 12 44 | 23 42 | 23 42 | 23 26 | | n.a. |
| F 24 | 20 12 | 22 16 | 2 44 | 11 46 | 2 30 | 24 0 | 1 1 | 14 50 | 0 7 | 17 23 | 0 37 | 1 28 | 2 44 | 15 56 | 0 45 | 7 6 | 2 0 | 1 43 | 12 44 | 23 41 | 23 42 | 23 25 | | n.a. |
| S 25 | 20 26 | 23 54 | 1 29 | 12 9 | 2 25 | 24 9 | 1 3 | 15 5 | 0 7 | 17 27 | 0 37 | 1 29 | 2 44 | 15 56 | 0 45 | 7 6 | 2 0 | 1 43 | 12 44 | 23 41 | 23 42 | 23 24 | | n.a. |
| S 26 | 20 38 | 23 47 | 0 8 | 12 33 | 2 18 | 24 18 | 1 5 | 15 19 | 0 6 | 17 31 | 0 37 | 1 29 | 2 43 | 15 55 | 0 45 | 7 6 | 2 0 | 1 42 | 12 43 | 23 41 | 23 42 | 23 23 | | n.a. |
| M27 | 20 51 | 21 58 | 1n14 | 12 58 | 2 12 | 24 26 | 1 7 | 15 33 | 0 5 | 17 34 | 0 37 | 1 29 | 2 43 | 15 55 | 0 45 | 7 5 | 2 0 | 1 42 | 12 43 | 23 41 | 23 42 | 23 22 | | n.a. |
| T 28 | 21 3 | 18 42 | 2 29 | 13 25 | 2 5 | 24 33 | 1 8 | 15 47 | 0 5 | 17 38 | 0 37 | 1 29 | 2 43 | 15 54 | 0 45 | 7 5 | 2 0 | 1 42 | 12 43 | 23 41 | 23 42 | 23 21 | | n.a. |
| W29 | 21 15 | 14 21 | 3 34 | 13 52 | 1 58 | 24 40 | 1 10 | 16 1 | 0 4 | 17 42 | 0 37 | 1 30 | 2 43 | 15 54 | 0 45 | 7 4 | 2 0 | 1 42 | 12 43 | 23 41 | 23 42 | 23 20 | | n.a. |
| T 30 | 21s26 | 9s19 | 4n24 | 14s20 | 1n50 | 24s45 | 1s12 | 16s15 | 0n 3 | 17s45 | 0n36 | 1s30 | 2s42 | 15s53 | 0s45 | 7n 4 | 2s 0 | 1n42 | 12s43 | 23s42 | 23s42 | 23n19 | | n.a. |

Julian Day Number = 1687393.5, Delta T = 03h12m17s
Ecliptic obliquity = 23°42'23, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°21'05, Lahiri = - 5°14'04 Julian Calendar 1 Nov. 94 BCE == Greg. Calendar 30 Oct. 094 BCE

The year -93 astronomical counting style corresponds to year 094 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 94 BCE
# geocentric

## DECEMBER 94 BCE (-93) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 4 25 33 | 6♐21'42 | 8♓17 | 14♏46 | 25♐ 0 | 15♏ 1 | 21♏43 | 2°R26 | 19♒23 | 22°R41 | 6°R 5 | 28°R 4 | 29♐ 2 | 3♋ 8 | n.a. | F 1 |
| S 2 | 4 29 30 | 7°22'58 | 21°38 | 15°59 | 26°15 | 15°45 | 21°57 | 2♈25 | 19°25 | 22♈40 | 6♉ 4 | 28♐ 3 | 28°59 | 3°15 | n.a. | S 2 |
| S 3 | 4 33 26 | 8°24'13 | 4♈39 | 17°15 | 27°30 | 16°29 | 22°10 | 2°25 | 19°26 | 22°38 | 6° 3 | 28° 2 | 28°56 | 3°21 | n.a. | S 3 |
| M 4 | 4 37 23 | 9°25'28 | 17°24 | 18°32 | 28°45 | 17°13 | 22°23 | 2°24 | 19°28 | 22°37 | 6° 3 | 27°59 | 28°53 | 3°28 | n.a. | M 4 |
| T 5 | 4 41 20 | 10°26'43 | 29°55 | 19°51 | 0♉ 0 | 17°57 | 22°37 | 2°24 | 19°30 | 22°36 | 6° 2 | 27°56 | 28°50 | 3°35 | n.a. | T 5 |
| W 6 | 4 45 16 | 11°27'57 | 12♉14 | 21°11 | 1°15 | 18°41 | 22°50 | 2°24 | 19°31 | 22°35 | 6° 1 | 27°54 | 28°46 | 3°41 | n.a. | W 6 |
| T 7 | 4 49 13 | 12°29'11 | 24°23 | 22°32 | 2°30 | 19°25 | 23° 3 | 2°24 | 19°33 | 22°34 | 6° 0 | 27°51 | 28°43 | 3°48 | n.a. | T 7 |
| F 8 | 4 53 9 | 13°30'25 | 6♊24 | 23°54 | 3°45 | 20° 9 | 23°17 | 2°D24 | 19°35 | 22°33 | 5°59 | 27°49 | 28°40 | 3°55 | n.a. | F 8 |
| S 9 | 4 57 6 | 14°31'38 | 18°19 | 25°17 | 5° 0 | 20°53 | 23°30 | 2°24 | 19°37 | 22°33 | 5°58 | 27°48 | 28°37 | 4° 1 | n.a. | S 9 |
| S 10 | 5 1 2 | 15°32'52 | 0♋ 8 | 26°42 | 6°15 | 21°37 | 23°43 | 2°24 | 19°39 | 22°32 | 5°57 | 27°D48 | 28°34 | 4° 8 | n.a. | S 10 |
| M11 | 5 4 59 | 16°34'05 | 11°56 | 28° 6 | 7°30 | 22°22 | 23°56 | 2°24 | 19°41 | 22°31 | 5°56 | 27°49 | 28°30 | 4°15 | n.a. | M11 |
| T 12 | 5 8 56 | 17°35'17 | 23°44 | 29°32 | 8°45 | 23° 6 | 24° 9 | 2°25 | 19°43 | 22°30 | 5°56 | 27°50 | 28°27 | 4°21 | n.a. | T 12 |
| W13 | 5 12 52 | 18°36'30 | 5♌34 | 0♐59 | 9°59 | 23°50 | 24°23 | 2°25 | 19°45 | 22°29 | 5°55 | 27°51 | 28°24 | 4°28 | n.a. | W13 |
| T 14 | 5 16 49 | 19°37'42 | 17°32 | 2°26 | 11°14 | 24°34 | 24°36 | 2°26 | 19°47 | 22°28 | 5°54 | 27°52 | 28°21 | 4°35 | n.a. | T 14 |
| F 15 | 5 20 45 | 20°38'54 | 29°39 | 3°54 | 12°29 | 25°19 | 24°49 | 2°26 | 19°49 | 22°28 | 5°53 | 27°52 | 28°18 | 4°41 | n.a. | F 15 |
| S 16 | 5 24 42 | 21°40'05 | 12♍ 1 | 5°22 | 13°44 | 26° 3 | 25° 2 | 2°27 | 19°51 | 22°27 | 5°52 | 27°53 | 28°15 | 4°48 | n.a. | S 16 |
| S 17 | 5 28 38 | 22°41'17 | 24°43 | 6°51 | 14°59 | 26°48 | 25°15 | 2°28 | 19°53 | 22°26 | 5°52 | 27°R53 | 28°11 | 4°55 | n.a. | S 17 |
| M18 | 5 32 35 | 23°42'28 | 7♎46 | 8°21 | 16°13 | 27°32 | 25°27 | 2°29 | 19°55 | 22°26 | 5°51 | 27°53 | 28° 8 | 5° 1 | n.a. | M18 |
| T 19 | 5 36 31 | 24°43'38 | 21°16 | 9°51 | 17°28 | 28°17 | 25°40 | 2°31 | 19°58 | 22°25 | 5°50 | 27°52 | 28° 5 | 5° 8 | n.a. | T 19 |
| W20 | 5 40 28 | 25°44'49 | 5♏13 | 11°22 | 18°43 | 29° 1 | 25°53 | 2°32 | 20° 0 | 22°24 | 5°50 | 27°52 | 28° 2 | 5°14 | n.a. | W20 |
| T 21 | 5 44 25 | 26°45'58 | 19°37 | 12°53 | 19°58 | 29°46 | 26° 6 | 2°33 | 20° 2 | 22°24 | 5°49 | 27°52 | 27°59 | 5°21 | n.a. | T 21 |
| F 22 | 5 48 21 | 27°47'08 | 4♐24 | 14°25 | 21°12 | 0♐31 | 26°18 | 2°35 | 20° 5 | 22°23 | 5°48 | 27°D52 | 27°56 | 5°28 | n.a. | F 22 |
| S 23 | 5 52 18 | 28°48'17 | 19°29 | 15°58 | 22°27 | 1°15 | 26°31 | 2°37 | 20° 7 | 22°23 | 5°48 | 27°52 | 27°52 | 5°34 | n.a. | S 23 |
| S 24 | 5 56 14 | 29°49'25 | 4♑42 | 17°31 | 23°42 | 2° 0 | 26°44 | 2°38 | 20° 9 | 22°22 | 5°47 | 27°R52 | 27°49 | 5°41 | n.a. | S 24 |
| M25 | 6 0 11 | 0♑50'32 | 19°54 | 19° 5 | 24°56 | 2°45 | 26°56 | 2°40 | 20°12 | 22°22 | 5°46 | 27°52 | 27°46 | 5°48 | n.a. | M25 |
| T 26 | 6 4 7 | 1°51'38 | 4♒55 | 20°39 | 26°11 | 3°30 | 27° 9 | 2°42 | 20°14 | 22°22 | 5°46 | 27°51 | 27°43 | 5°54 | n.a. | T 26 |
| W27 | 6 8 4 | 2°52'43 | 19°38 | 22°14 | 27°25 | 4°14 | 27°21 | 2°44 | 20°17 | 22°21 | 5°45 | 27°51 | 27°40 | 6° 1 | n.a. | W27 |
| T 28 | 6 12 0 | 3°53'46 | 3♓57 | 23°49 | 28°40 | 4°59 | 27°33 | 2°47 | 20°20 | 22°21 | 5°45 | 27°50 | 27°36 | 6° 8 | n.a. | T 28 |
| F 29 | 6 15 57 | 4°54'48 | 17°49 | 25°25 | 29°54 | 5°44 | 27°46 | 2°49 | 20°22 | 22°21 | 5°44 | 27°50 | 27°33 | 6°14 | n.a. | F 29 |
| S 30 | 6 19 54 | 5°55'49 | 1♈15 | 27° 2 | 1♒ 9 | 6°29 | 27°58 | 2°51 | 20°25 | 22°20 | 5°44 | 27°D49 | 27°30 | 6°21 | n.a. | S 30 |
| S 31 | 6 23 50 | 6♑56'49 | 14♈16 | 28♐39 | 2♒23 | 7♐14 | 28♏10 | 2♈54 | 20♒28 | 22♈20 | 5♉43 | 27♐49 | 27♐27 | 6♋28 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | |
| F 1 | 21 s37 | 3 s58 | 4n57 | 14 s49 | 1n43 | 24 s50 | 1 s14 | 16 s29 | 0n 3 | 17 s49 | 0n36 | 1 s30 | 2 s42 | 15 s53 | 0 s45 | 7n 4 | 2 s 0 | 1n42 | 12 s43 | 23 s42 | 23 s42 | 23n18 | | | n.a. |
| S 2 | 21 47 | 1n26 | 5 14 | 15 18 | 1 35 | 24 55 | 1 15 | 16 42 | 0 2 | 17 52 | 0 36 | 1 30 | 2 42 | 15 52 | 0 45 | 7 3 | 2 0 | 1 42 | 12 42 | 23 42 | 23 42 | 23 17 | | | n.a. |
| S 3 | 21 57 | 6 39 | 5 14 | 15 47 | 1 27 | 24 58 | 1 17 | 16 56 | 0 1 | 17 56 | 0 36 | 1 30 | 2 41 | 15 52 | 0 45 | 7 3 | 2 0 | 1 41 | 12 42 | 23 41 | 23 42 | 23 16 | | | n.a. |
| M 4 | 22 7 | 11 29 | 4 58 | 16 16 | 1 19 | 25 1 | 1 19 | 17 9 | 0 1 | 17 59 | 0 36 | 1 30 | 2 41 | 15 51 | 0 45 | 7 3 | 2 0 | 1 41 | 12 42 | 23 41 | 23 42 | 23 15 | | | n.a. |
| T 5 | 22 16 | 15 44 | 4 28 | 16 45 | 1 11 | 25 2 | 1 20 | 17 22 | 0 s 0 | 18 3 | 0 36 | 1 29 | 2 41 | 15 51 | 0 45 | 7 2 | 2 0 | 1 41 | 12 42 | 23 41 | 23 42 | 23 14 | | | n.a. |
| W 6 | 22 24 | 19 16 | 3 46 | 17 14 | 1 3 | 25 4 | 1 22 | 17 35 | 0 1 | 18 6 | 0 36 | 1 29 | 2 41 | 15 50 | 0 45 | 7 2 | 2 0 | 1 41 | 12 42 | 23 41 | 23 42 | 23 13 | | | n.a. |
| T 7 | 22 33 | 21 54 | 2 55 | 17 43 | 0 55 | 25 4 | 1 23 | 17 48 | 0 1 | 18 10 | 0 36 | 1 29 | 2 40 | 15 49 | 0 45 | 7 2 | 2 0 | 1 41 | 12 41 | 23 41 | 23 42 | 23 12 | | | n.a. |
| F 8 | 22 40 | 23 31 | 1 56 | 18 11 | 0 47 | 25 3 | 1 24 | 18 1 | 0 2 | 18 13 | 0 36 | 1 29 | 2 40 | 15 49 | 0 45 | 7 1 | 2 0 | 1 41 | 12 41 | 23 41 | 23 42 | 23 11 | | | n.a. |
| S 9 | 22 48 | 24 3 | 0 52 | 18 40 | 0 40 | 25 2 | 1 26 | 18 13 | 0 3 | 18 17 | 0 36 | 1 29 | 2 40 | 15 48 | 0 45 | 7 1 | 2 0 | 1 41 | 12 41 | 23 41 | 23 42 | 23 9 | | | n.a. |
| S 10 | 22 55 | 23 29 | 0 s13 | 19 7 | 0 32 | 25 0 | 1 27 | 18 26 | 0 3 | 18 20 | 0 36 | 1 28 | 2 39 | 15 48 | 0 45 | 7 1 | 2 0 | 1 41 | 12 41 | 23 41 | 23 42 | 23 8 | | | n.a. |
| M11 | 23 1 | 21 52 | 1 18 | 19 34 | 0 24 | 24 57 | 1 28 | 18 38 | 0 4 | 18 23 | 0 36 | 1 28 | 2 39 | 15 47 | 0 45 | 7 0 | 2 0 | 1 41 | 12 41 | 23 41 | 23 42 | 23 7 | | | n.a. |
| T 12 | 23 7 | 19 19 | 2 19 | 20 1 | 0 16 | 24 54 | 1 29 | 18 50 | 0 5 | 18 27 | 0 36 | 1 27 | 2 39 | 15 46 | 0 45 | 7 0 | 2 0 | 1 41 | 12 40 | 23 41 | 23 42 | 23 6 | | | n.a. |
| W13 | 23 13 | 15 56 | 3 15 | 20 26 | 0 9 | 24 50 | 1 30 | 19 2 | 0 5 | 18 30 | 0 36 | 1 27 | 2 39 | 15 46 | 0 44 | 7 0 | 1 59 | 1 41 | 12 40 | 23 41 | 23 42 | 23 5 | | | n.a. |
| T 14 | 23 18 | 11 54 | 4 3 | 20 51 | 0 1 | 24 44 | 1 31 | 19 13 | 0 6 | 18 33 | 0 36 | 1 26 | 2 38 | 15 45 | 0 44 | 7 0 | 1 59 | 1 40 | 12 40 | 23 41 | 23 42 | 23 4 | | | n.a. |
| F 15 | 23 22 | 7 21 | 4 40 | 21 16 | 0 s 6 | 24 39 | 1 32 | 19 25 | 0 7 | 18 36 | 0 36 | 1 26 | 2 38 | 15 44 | 0 44 | 7 0 | 1 59 | 1 40 | 12 40 | 23 41 | 23 42 | 23 3 | | | n.a. |
| S 16 | 23 26 | 2 25 | 5 6 | 21 39 | 0 13 | 24 32 | 1 33 | 19 36 | 0 8 | 18 40 | 0 36 | 1 25 | 2 38 | 15 44 | 0 44 | 6 59 | 1 59 | 1 40 | 12 40 | 23 41 | 23 42 | 23 2 | | | n.a. |
| S 17 | 23 30 | 2 s44 | 5 18 | 22 2 | 0 20 | 24 25 | 1 34 | 19 47 | 0 8 | 18 43 | 0 35 | 1 24 | 2 37 | 15 43 | 0 44 | 6 59 | 1 59 | 1 40 | 12 39 | 23 41 | 23 42 | 23 1 | | | n.a. |
| M18 | 23 33 | 7 54 | 5 13 | 22 23 | 0 27 | 24 16 | 1 35 | 19 58 | 0 9 | 18 46 | 0 35 | 1 24 | 2 37 | 15 42 | 0 44 | 6 59 | 1 59 | 1 40 | 12 39 | 23 41 | 23 42 | 23 0 | | | n.a. |
| T 19 | 23 36 | 12 53 | 4 52 | 22 44 | 0 34 | 24 7 | 1 35 | 20 9 | 0 10 | 18 49 | 0 35 | 1 23 | 2 37 | 15 41 | 0 44 | 6 59 | 1 59 | 1 40 | 12 39 | 23 41 | 23 42 | 22 58 | | | n.a. |
| W20 | 23 38 | 17 22 | 4 13 | 23 4 | 0 40 | 23 58 | 1 36 | 20 20 | 0 10 | 18 52 | 0 35 | 1 22 | 2 36 | 15 41 | 0 44 | 6 59 | 1 59 | 1 40 | 12 39 | 23 41 | 23 41 | 22 57 | | | n.a. |
| T 21 | 23 40 | 21 0 | 3 17 | 23 22 | 0 47 | 23 48 | 1 36 | 20 30 | 0 11 | 18 55 | 0 35 | 1 21 | 2 36 | 15 40 | 0 44 | 6 58 | 1 59 | 1 40 | 12 38 | 23 41 | 23 41 | 22 56 | | | n.a. |
| F 22 | 23 41 | 23 20 | 2 7 | 23 40 | 0 53 | 23 36 | 1 37 | 20 41 | 0 12 | 18 58 | 0 35 | 1 20 | 2 36 | 15 39 | 0 44 | 6 58 | 1 59 | 1 40 | 12 38 | 23 41 | 23 41 | 22 55 | | | n.a. |
| S 23 | 23 42 | 24 3 | 0 47 | 23 56 | 0 59 | 23 25 | 1 37 | 20 51 | 0 12 | 19 1 | 0 35 | 1 19 | 2 36 | 15 38 | 0 44 | 6 58 | 1 59 | 1 40 | 12 38 | 23 41 | 23 41 | 22 54 | | | n.a. |
| S 24 | 23 42 | 22 59 | 0n38 | 24 11 | 1 5 | 23 12 | 1 38 | 21 0 | 0 13 | 19 4 | 0 35 | 1 18 | 2 35 | 15 37 | 0 44 | 6 58 | 1 59 | 1 41 | 12 38 | 23 41 | 23 41 | 22 53 | | | n.a. |
| M25 | 23 42 | 20 14 | 2 0 | 24 25 | 1 10 | 22 59 | 1 38 | 21 10 | 0 14 | 19 7 | 0 35 | 1 17 | 2 35 | 15 37 | 0 44 | 6 58 | 1 59 | 1 41 | 12 37 | 23 41 | 23 41 | 22 51 | | | n.a. |
| T 26 | 23 42 | 16 8 | 3 12 | 24 38 | 1 16 | 22 45 | 1 38 | 21 20 | 0 15 | 19 10 | 0 35 | 1 16 | 2 35 | 15 36 | 0 44 | 6 58 | 1 59 | 1 41 | 12 37 | 23 41 | 23 41 | 22 50 | | | n.a. |
| W27 | 23 40 | 11 8 | 4 10 | 24 49 | 1 21 | 22 31 | 1 38 | 21 29 | 0 15 | 19 13 | 0 35 | 1 15 | 2 34 | 15 35 | 0 44 | 6 58 | 1 59 | 1 41 | 12 37 | 23 41 | 23 41 | 22 49 | | | n.a. |
| T 28 | 23 39 | 5 39 | 4 51 | 24 59 | 1 26 | 22 15 | 1 38 | 21 38 | 0 16 | 19 16 | 0 35 | 1 14 | 2 34 | 15 34 | 0 44 | 6 58 | 1 59 | 1 41 | 12 37 | 23 41 | 23 41 | 22 48 | | | n.a. |
| F 29 | 23 37 | 0 4 | 5 13 | 25 8 | 1 30 | 22 0 | 1 38 | 21 47 | 0 17 | 19 19 | 0 35 | 1 13 | 2 34 | 15 33 | 0 44 | 6 58 | 1 58 | 1 41 | 12 36 | 23 41 | 23 41 | 22 47 | | | n.a. |
| S 30 | 23 34 | 5n21 | 5 17 | 25 15 | 1 35 | 21 43 | 1 38 | 21 55 | 0 17 | 19 22 | 0 35 | 1 12 | 2 33 | 15 32 | 0 44 | 6 58 | 1 58 | 1 41 | 12 36 | 23 41 | 23 41 | 22 46 | | | n.a. |
| S 31 | 23 s31 | 10n22 | 5n 5 | 25 s21 | 1 s39 | 21 s26 | 1 s38 | 22 s 4 | 0 s18 | 19 s24 | 0n35 | 1 s10 | 2 s33 | 15 s31 | 0 s44 | 6n58 | 1 s58 | 1n41 | 12 s36 | 23 s41 | 23 s41 | 22n44 | | | n.a. |

Julian Day Number = 1687423.5, Delta T = 03h12m16s
Ecliptic obliquity = 23°42'23, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°21'01, Lahiri = - 5°14'00 Julian Calendar 1 Dec. 94 BCE == Greg. Calendar 29 Nov. 094 BCE

The year -93 astronomical counting style corresponds to year 094 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 93 BCE
# geocentric

## JANUARY 93 BCE (-92) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 6 27 47 | 7♑57'47 | 26♈56 | 0♑17 | 3♒38 | 7♐59 | 28♏22 | 2♈57 | 20♒30 | 22°R20 | 5°R43 | 27♐50 | 27♐24 | 6♋34 | n.a. | M 1 |
| T 2 | 6 31 43 | 8°58'44 | 9♉18 | 1°56 | 4°52 | 8°44 | 28°34 | 2°59 | 20°33 | 22♈20 | 5♉42 | 27°51 | 27°21 | 6°41 | n.a. | T 2 |
| W 3 | 6 35 40 | 9°59'39 | 21°26 | 3°36 | 6° 6 | 9°29 | 28°46 | 3° 2 | 20°36 | 22°20 | 5°42 | 27°52 | 27°17 | 6°48 | n.a. | W 3 |
| T 4 | 6 39 36 | 11° 0'33 | 3♊24 | 5°16 | 7°21 | 10°14 | 28°58 | 3° 5 | 20°39 | 22°20 | 5°41 | 27°53 | 27°14 | 6°54 | n.a. | T 4 |
| F 5 | 6 43 33 | 12° 1'26 | 15°16 | 6°57 | 8°35 | 10°59 | 29°10 | 3° 8 | 20°41 | 22°D20 | 5°41 | 27°54 | 27°11 | 7° 1 | n.a. | F 5 |
| S 6 | 6 47 30 | 13° 2'17 | 27° 5 | 8°38 | 9°49 | 11°44 | 29°21 | 3°11 | 20°44 | 22°20 | 5°41 | 27°R55 | 27° 8 | 7° 7 | n.a. | S 6 |
| S 7 | 6 51 26 | 14° 3'07 | 8♋52 | 10°20 | 11° 3 | 12°30 | 29°33 | 3°15 | 20°47 | 22°20 | 5°40 | 27°54 | 27° 5 | 7°14 | n.a. | S 7 |
| M 8 | 6 55 23 | 15° 3'55 | 20°41 | 12° 4 | 12°18 | 13°15 | 29°45 | 3°18 | 20°50 | 22°20 | 5°40 | 27°53 | 27° 2 | 7°21 | n.a. | M 8 |
| T 9 | 6 59 19 | 16° 4'42 | 2♌33 | 13°47 | 13°32 | 14° 0 | 29°56 | 3°21 | 20°53 | 22°20 | 5°40 | 27°51 | 26°58 | 7°27 | n.a. | T 9 |
| W10 | 7 3 16 | 17° 5'28 | 14°31 | 15°32 | 14°46 | 14°45 | 0♐ 7 | 3°25 | 20°56 | 22°20 | 5°39 | 27°48 | 26°55 | 7°34 | n.a. | W10 |
| T 11 | 7 7 12 | 18° 6'12 | 26°36 | 17°17 | 16° 0 | 15°31 | 0°19 | 3°29 | 20°59 | 22°20 | 5°39 | 27°45 | 26°52 | 7°41 | n.a. | T 11 |
| F 12 | 7 11 9 | 19° 6'55 | 8♍50 | 19° 4 | 17°14 | 16°16 | 0°30 | 3°32 | 21° 2 | 22°20 | 5°39 | 27°41 | 26°49 | 7°47 | n.a. | F 12 |
| S 13 | 7 15 5 | 20° 7'37 | 21°17 | 20°51 | 18°28 | 17° 1 | 0°41 | 3°36 | 21° 5 | 22°21 | 5°39 | 27°38 | 26°46 | 7°54 | n.a. | S 13 |
| S 14 | 7 19 2 | 21° 8'18 | 3♎59 | 22°38 | 19°42 | 17°47 | 0°52 | 3°40 | 21° 8 | 22°21 | 5°38 | 27°36 | 26°42 | 8° 1 | n.a. | S 14 |
| M15 | 7 22 59 | 22° 8'57 | 16°59 | 24°27 | 20°55 | 18°32 | 1° 3 | 3°44 | 21°11 | 22°21 | 5°38 | 27°D35 | 26°39 | 8° 7 | n.a. | M15 |
| T 16 | 7 26 55 | 23° 9'35 | 0♏20 | 26°16 | 22° 9 | 19°17 | 1°14 | 3°48 | 21°14 | 22°22 | 5°38 | 27°35 | 26°36 | 8°14 | n.a. | T 16 |
| W17 | 7 30 52 | 24°10'12 | 14° 3 | 28° 6 | 23°23 | 20° 3 | 1°25 | 3°52 | 21°17 | 22°22 | 5°38 | 27°36 | 26°33 | 8°21 | n.a. | W17 |
| T 18 | 7 34 48 | 25°10'47 | 28°11 | 29°56 | 24°37 | 20°48 | 1°36 | 3°57 | 21°21 | 22°22 | 5°38 | 27°37 | 26°30 | 8°27 | n.a. | T 18 |
| F 19 | 7 38 45 | 26°11'21 | 12♐42 | 1♒47 | 25°50 | 21°34 | 1°46 | 4° 1 | 21°24 | 22°23 | 5°38 | 27°39 | 26°27 | 8°34 | n.a. | F 19 |
| S 20 | 7 42 41 | 27°11'54 | 27°33 | 3°39 | 27° 4 | 22°20 | 1°57 | 4° 6 | 21°27 | 22°23 | 5°38 | 27°R39 | 26°23 | 8°41 | n.a. | S 20 |
| S 21 | 7 46 38 | 28°12'25 | 12♑38 | 5°30 | 28°18 | 23° 5 | 2° 7 | 4°10 | 21°30 | 22°24 | 5°38 | 27°39 | 26°20 | 8°47 | n.a. | S 21 |
| M22 | 7 50 34 | 29°12'55 | 27°48 | 7°22 | 29°31 | 23°51 | 2°17 | 4°15 | 21°33 | 22°24 | 5°D38 | 27°36 | 26°17 | 8°54 | n.a. | M22 |
| T 23 | 7 54 31 | 0♒13'22 | 12♒55 | 9°14 | 0♓45 | 24°36 | 2°28 | 4°20 | 21°37 | 22°25 | 5°38 | 27°33 | 26°14 | 9° 1 | n.a. | T 23 |
| W24 | 7 58 28 | 1°13'48 | 27°47 | 11° 6 | 1°58 | 25°22 | 2°38 | 4°24 | 21°40 | 22°26 | 5°38 | 27°28 | 26°11 | 9° 7 | n.a. | W24 |
| T 25 | 8 2 24 | 2°14'12 | 12♓19 | 12°57 | 3°12 | 26° 8 | 2°48 | 4°29 | 21°43 | 22°26 | 5°38 | 27°22 | 26° 8 | 9°14 | n.a. | T 25 |
| F 26 | 8 6 21 | 3°14'34 | 26°23 | 14°48 | 4°25 | 26°53 | 2°58 | 4°34 | 21°47 | 22°27 | 5°38 | 27°17 | 26° 4 | 9°20 | n.a. | F 26 |
| S 27 | 8 10 17 | 4°14'53 | 9♈59 | 16°37 | 5°38 | 27°39 | 3° 7 | 4°39 | 21°50 | 22°28 | 5°38 | 27°13 | 26° 1 | 9°27 | n.a. | S 27 |
| S 28 | 8 14 14 | 5°15'11 | 23° 6 | 18°25 | 6°51 | 28°25 | 3°17 | 4°44 | 21°53 | 22°28 | 5°38 | 27°11 | 25°58 | 9°34 | n.a. | S 28 |
| M29 | 8 18 10 | 6°15'26 | 5♉49 | 20°12 | 8° 4 | 29°11 | 3°27 | 4°50 | 21°56 | 22°29 | 5°38 | 27°D10 | 25°55 | 9°40 | n.a. | M29 |
| T 30 | 8 22 7 | 7°15'40 | 18°10 | 21°56 | 9°18 | 29°56 | 3°36 | 4°55 | 22° 0 | 22°30 | 5°38 | 27°11 | 25°52 | 9°47 | n.a. | T 30 |
| W31 | 8 26 3 | 8♒15'51 | 0♊16 | 23♒37 | 10♓31 | 0♑42 | 3♐45 | 5♈ 0 | 22♒ 3 | 22♈31 | 5♉39 | 27♐12 | 25♐48 | 9♋54 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| M 1 | 23s28 | 14n48 | 4n38 | 25s25 | 1s42 | 21s 8 | 1s38 | 22s12 | 0s19 | 19s27 | 0n35 | 1s 9 | 2s33 | 15s31 | 0s44 | 6n58 | 1s58 | 1n41 | 12s36 | 23s41 | 23s41 | 22n43 | | | n.a. |
| T 2 | 23 24 | 18 31 | 3 59 | 25 27 | 1 46 | 20 50 | 1 37 | 22 20 | 0 20 | 19 30 | 0 35 | 1 8 | 2 33 | 15 30 | 0 44 | 6 58 | 1 58 | 1 41 | 12 35 | 23 41 | 23 41 | 22 42 | | | n.a. |
| W 3 | 23 19 | 21 21 | 3 9 | 25 29 | 1 49 | 20 31 | 1 37 | 22 27 | 0 20 | 19 33 | 0 35 | 1 6 | 2 32 | 15 29 | 0 44 | 6 58 | 1 58 | 1 41 | 12 35 | 23 41 | 23 41 | 22 41 | | | n.a. |
| T 4 | 23 15 | 23 14 | 2 12 | 25 28 | 1 52 | 20 12 | 1 36 | 22 35 | 0 21 | 19 35 | 0 35 | 1 5 | 2 32 | 15 28 | 0 44 | 6 58 | 1 58 | 1 42 | 12 35 | 23 41 | 23 41 | 22 40 | | | n.a. |
| F 5 | 23 9 | 24 2 | 1 10 | 25 26 | 1 55 | 19 51 | 1 36 | 22 42 | 0 22 | 19 38 | 0 35 | 1 3 | 2 32 | 15 27 | 0 44 | 6 58 | 1 58 | 1 42 | 12 34 | 23 41 | 23 41 | 22 38 | | | n.a. |
| S 6 | 23 4 | 23 45 | 0 5 | 25 22 | 1 57 | 19 31 | 1 35 | 22 49 | 0 23 | 19 40 | 0 35 | 1 2 | 2 31 | 15 26 | 0 44 | 6 58 | 1 58 | 1 42 | 12 34 | 23 41 | 23 40 | 22 37 | | | n.a. |
| S 7 | 22 57 | 22 24 | 1s 0 | 25 16 | 1 59 | 19 10 | 1 34 | 22 56 | 0 23 | 19 43 | 0 35 | 1 0 | 2 31 | 15 25 | 0 44 | 6 58 | 1 58 | 1 42 | 12 34 | 23 41 | 23 40 | 22 36 | | | n.a. |
| M 8 | 22 51 | 20 4 | 2 3 | 25 9 | 2 0 | 18 48 | 1 34 | 23 2 | 0 24 | 19 45 | 0 35 | 0 59 | 2 31 | 15 24 | 0 44 | 6 58 | 1 58 | 1 42 | 12 34 | 23 41 | 23 40 | 22 35 | | | n.a. |
| T 9 | 22 44 | 16 53 | 3 0 | 24 59 | 2 1 | 18 26 | 1 33 | 23 9 | 0 25 | 19 48 | 0 35 | 0 57 | 2 31 | 15 23 | 0 44 | 6 58 | 1 58 | 1 42 | 12 33 | 23 41 | 23 40 | 22 33 | | | n.a. |
| W10 | 22 36 | 13 0 | 3 50 | 24 48 | 2 2 | 18 3 | 1 32 | 23 15 | 0 26 | 19 50 | 0 35 | 0 55 | 2 30 | 15 22 | 0 44 | 6 58 | 1 58 | 1 42 | 12 33 | 23 41 | 23 40 | 22 32 | | | n.a. |
| T 11 | 22 28 | 8 33 | 4 30 | 24 35 | 2 2 | 17 40 | 1 31 | 23 21 | 0 26 | 19 53 | 0 35 | 0 54 | 2 30 | 15 21 | 0 44 | 6 58 | 1 58 | 1 43 | 12 33 | 23 41 | 23 40 | 22 31 | | | n.a. |
| F 12 | 22 20 | 3 44 | 4 58 | 24 20 | 2 2 | 17 16 | 1 30 | 23 26 | 0 27 | 19 55 | 0 35 | 0 52 | 2 30 | 15 20 | 0 44 | 6 59 | 1 57 | 1 43 | 12 32 | 23 41 | 23 40 | 22 30 | | | n.a. |
| S 13 | 22 11 | 1s18 | 5 13 | 24 4 | 2 1 | 16 52 | 1 29 | 23 32 | 0 28 | 19 58 | 0 34 | 0 50 | 2 30 | 15 19 | 0 44 | 6 59 | 1 57 | 1 43 | 12 32 | 23 41 | 23 40 | 22 28 | | | n.a. |
| S 14 | 22 1 | 6 23 | 5 13 | 23 45 | 2 0 | 16 27 | 1 27 | 23 37 | 0 29 | 20 0 | 0 34 | 0 48 | 2 29 | 15 18 | 0 44 | 6 59 | 1 57 | 1 43 | 12 32 | 23 41 | 23 40 | 22 27 | | | n.a. |
| M15 | 21 52 | 11 18 | 4 57 | 23 24 | 1 58 | 16 2 | 1 26 | 23 41 | 0 29 | 20 2 | 0 34 | 0 46 | 2 29 | 15 17 | 0 44 | 6 59 | 1 57 | 1 44 | 12 32 | 23 41 | 23 40 | 22 26 | | | n.a. |
| T 16 | 21 42 | 15 51 | 4 25 | 23 1 | 1 56 | 15 37 | 1 25 | 23 46 | 0 30 | 20 5 | 0 34 | 0 45 | 2 29 | 15 16 | 0 44 | 6 59 | 1 57 | 1 44 | 12 31 | 23 41 | 23 40 | 22 25 | | | n.a. |
| W17 | 21 31 | 19 41 | 3 37 | 22 37 | 1 53 | 15 11 | 1 23 | 23 50 | 0 31 | 20 7 | 0 34 | 0 43 | 2 29 | 15 15 | 0 44 | 6 59 | 1 57 | 1 44 | 12 31 | 23 41 | 23 40 | 22 23 | | | n.a. |
| T 18 | 21 20 | 22 30 | 2 35 | 22 10 | 1 49 | 14 45 | 1 22 | 23 54 | 0 31 | 20 9 | 0 34 | 0 41 | 2 28 | 15 14 | 0 44 | 7 0 | 1 57 | 1 44 | 12 31 | 23 41 | 23 40 | 22 22 | | | n.a. |
| F 19 | 21 9 | 23 55 | 1 21 | 21 42 | 1 45 | 14 18 | 1 20 | 23 58 | 0 32 | 20 11 | 0 34 | 0 39 | 2 28 | 15 13 | 0 44 | 7 0 | 1 57 | 1 44 | 12 30 | 23 41 | 23 39 | 22 21 | | | n.a. |
| S 20 | 20 57 | 23 42 | 0 1 | 21 11 | 1 41 | 13 51 | 1 19 | 24 2 | 0 33 | 20 13 | 0 34 | 0 37 | 2 28 | 15 12 | 0 44 | 7 0 | 1 57 | 1 45 | 12 30 | 23 41 | 23 39 | 22 19 | | | n.a. |
| S 21 | 20 45 | 21 45 | 1n21 | 20 39 | 1 35 | 13 24 | 1 17 | 24 5 | 0 34 | 20 15 | 0 34 | 0 35 | 2 27 | 15 11 | 0 44 | 7 0 | 1 57 | 1 45 | 12 30 | 23 41 | 23 39 | 22 18 | | | n.a. |
| M22 | 20 33 | 18 15 | 2 38 | 20 5 | 1 30 | 12 56 | 1 15 | 24 8 | 0 34 | 20 17 | 0 34 | 0 33 | 2 27 | 15 10 | 0 44 | 7 1 | 1 57 | 1 45 | 12 29 | 23 41 | 23 39 | 22 17 | | | n.a. |
| T 23 | 20 20 | 13 34 | 3 43 | 19 29 | 1 23 | 12 28 | 1 13 | 24 11 | 0 35 | 20 20 | 0 34 | 0 30 | 2 27 | 15 9 | 0 44 | 7 1 | 1 57 | 1 46 | 12 29 | 23 41 | 23 39 | 22 15 | | | n.a. |
| W24 | 20 6 | 8 8 | 4 32 | 18 51 | 1 16 | 12 0 | 1 11 | 24 13 | 0 36 | 20 22 | 0 34 | 0 28 | 2 27 | 15 8 | 0 44 | 7 1 | 1 57 | 1 46 | 12 29 | 23 41 | 23 39 | 22 14 | | | n.a. |
| T 25 | 19 53 | 2 23 | 5 1 | 18 12 | 1 8 | 11 31 | 1 9 | 24 16 | 0 37 | 20 24 | 0 34 | 0 26 | 2 27 | 15 6 | 0 44 | 7 2 | 1 57 | 1 46 | 12 29 | 23 41 | 23 39 | 22 13 | | | n.a. |
| F 26 | 19 39 | 3n19 | 5 12 | 17 31 | 0 59 | 11 2 | 1 7 | 24 18 | 0 37 | 20 25 | 0 34 | 0 24 | 2 26 | 15 5 | 0 44 | 7 2 | 1 57 | 1 46 | 12 28 | 23 41 | 23 39 | 22 12 | | | n.a. |
| S 27 | 19 25 | 8 39 | 5 4 | 16 49 | 0 50 | 10 33 | 1 5 | 24 19 | 0 38 | 20 27 | 0 34 | 0 22 | 2 26 | 15 4 | 0 44 | 7 2 | 1 56 | 1 47 | 12 28 | 23 41 | 23 39 | 22 10 | | | n.a. |
| S 28 | 19 10 | 13 25 | 4 41 | 16 6 | 0 40 | 10 4 | 1 3 | 24 21 | 0 39 | 20 29 | 0 34 | 0 19 | 2 26 | 15 3 | 0 44 | 7 3 | 1 56 | 1 47 | 12 28 | 23 41 | 23 39 | 22 9 | | | n.a. |
| M29 | 18 55 | 17 26 | 4 4 | 15 22 | 0 29 | 9 34 | 1 0 | 24 22 | 0 40 | 20 31 | 0 34 | 0 17 | 2 26 | 15 2 | 0 43 | 7 3 | 1 56 | 1 47 | 12 27 | 23 41 | 23 39 | 22 8 | | | n.a. |
| T 30 | 18 40 | 20 35 | 3 17 | 14 38 | 0 18 | 9 4 | 0 58 | 24 23 | 0 40 | 20 33 | 0 34 | 0 15 | 2 25 | 15 1 | 0 43 | 7 3 | 1 56 | 1 48 | 12 27 | 23 41 | 23 38 | 22 6 | | | n.a. |
| W31 | 18s24 | 22n44 | 2n22 | 13s53 | 0s 6 | 8s34 | 0s56 | 24s23 | 0s41 | 20s35 | 0n34 | 0s12 | 2s25 | 15s 0 | 0s43 | 7n 4 | 1s56 | 1n48 | 12s27 | 23s41 | 23s38 | 22n 5 | | | n.a. |

Julian Day Number = 1687454.5, Delta T = 03h12m15s
Ecliptic obliquity = 23°42'22, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°20'56, Lahiri = - 5°13'56 Julian Calendar 1 Jan. 93 BCE == Greg. Calendar 30 Dec. 094 BCE

The year -92 astronomical counting style corresponds to year 093 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 93 BCE
# geocentric

## FEBRUARY 93 BCE (-92) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 30 0 | 9♒16'00 | 12♊10 | 25♒16 | 11♓44 | 1♑28 | 3♐55 | 5♈ 6 | 22♒ 7 | 22♈32 | 5♉39 | 27♐14 | 25♐45 | 10♋ 0 | n.a. | T 1 |
| F 2 | 8 33 57 | 10°16'07 | 23°58 | 26°50 | 12°56 | 2°14 | 4° 4 | 5°11 | 22°10 | 22°33 | 5°39 | 27°R15 | 25°42 | 10° 7 | n.a. | F 2 |
| S 3 | 8 37 53 | 11°16'11 | 5♋44 | 28°20 | 14° 9 | 3° 0 | 4°13 | 5°17 | 22°13 | 22°34 | 5°39 | 27°14 | 25°39 | 10°14 | n.a. | S 3 |
| S 4 | 8 41 50 | 12°16'14 | 17°32 | 29°46 | 15°22 | 3°45 | 4°21 | 5°23 | 22°17 | 22°35 | 5°39 | 27°12 | 25°36 | 10°20 | n.a. | S 4 |
| M 5 | 8 45 46 | 13°16'14 | 29°25 | 1♓ 5 | 16°35 | 4°31 | 4°30 | 5°28 | 22°20 | 22°36 | 5°40 | 27° 7 | 25°33 | 10°27 | n.a. | M 5 |
| T 6 | 8 49 43 | 14°16'13 | 11♌25 | 2°19 | 17°47 | 5°17 | 4°39 | 5°34 | 22°23 | 22°37 | 5°40 | 27° 1 | 25°29 | 10°34 | n.a. | T 6 |
| W 7 | 8 53 39 | 15°16'09 | 23°33 | 3°26 | 19° 0 | 6° 3 | 4°47 | 5°40 | 22°27 | 22°38 | 5°40 | 26°53 | 25°26 | 10°40 | n.a. | W 7 |
| T 8 | 8 57 36 | 16°16'03 | 5♍52 | 4°27 | 20°12 | 6°49 | 4°55 | 5°46 | 22°30 | 22°39 | 5°41 | 26°43 | 25°23 | 10°47 | n.a. | T 8 |
| F 9 | 9 1 32 | 17°15'56 | 18°20 | 5°19 | 21°25 | 7°35 | 5° 4 | 5°52 | 22°34 | 22°40 | 5°41 | 26°34 | 25°20 | 10°54 | n.a. | F 9 |
| S 10 | 9 5 29 | 18°15'46 | 1♎ 1 | 6° 4 | 22°37 | 8°21 | 5°12 | 5°58 | 22°37 | 22°41 | 5°42 | 26°25 | 25°17 | 11° 0 | n.a. | S 10 |
| S 11 | 9 9 25 | 19°15'35 | 13°53 | 6°41 | 23°49 | 9° 7 | 5°20 | 6° 4 | 22°41 | 22°42 | 5°42 | 26°18 | 25°14 | 11° 7 | n.a. | S 11 |
| M12 | 9 13 22 | 20°15'21 | 26°59 | 7° 9 | 25° 1 | 9°53 | 5°28 | 6°10 | 22°44 | 22°44 | 5°42 | 26°13 | 25°10 | 11°14 | n.a. | M12 |
| T 13 | 9 17 19 | 21°15'06 | 10♏20 | 7°28 | 26°13 | 10°39 | 5°35 | 6°16 | 22°47 | 22°45 | 5°43 | 26°10 | 25° 7 | 11°20 | n.a. | T 13 |
| W14 | 9 21 15 | 22°14'49 | 23°58 | 7°39 | 27°25 | 11°25 | 5°43 | 6°23 | 22°51 | 22°46 | 5°43 | 26°D10 | 25° 4 | 11°27 | n.a. | W14 |
| T 15 | 9 25 12 | 23°14'31 | 7♐53 | 7°R42 | 28°37 | 12°11 | 5°50 | 6°29 | 22°54 | 22°47 | 5°44 | 26°10 | 25° 1 | 11°33 | n.a. | T 15 |
| F 16 | 9 29 8 | 24°14'11 | 22° 6 | 7°36 | 29°49 | 12°57 | 5°57 | 6°36 | 22°58 | 22°49 | 5°44 | 26°R11 | 24°58 | 11°40 | n.a. | F 16 |
| S 17 | 9 33 5 | 25°13'48 | 6♑36 | 7°22 | 1♈ 1 | 13°43 | 6° 4 | 6°42 | 23° 1 | 22°50 | 5°45 | 26°11 | 24°54 | 11°47 | n.a. | S 17 |
| S 18 | 9 37 1 | 26°13'24 | 21°19 | 7° 0 | 2°13 | 14°29 | 6°11 | 6°49 | 23° 5 | 22°52 | 5°45 | 26° 8 | 24°51 | 11°53 | n.a. | S 18 |
| M19 | 9 40 58 | 27°12'58 | 6♒11 | 6°31 | 3°24 | 15°15 | 6°18 | 6°55 | 23° 8 | 22°53 | 5°46 | 26° 3 | 24°48 | 12° 0 | n.a. | M19 |
| T 20 | 9 44 54 | 28°12'30 | 21° 4 | 5°56 | 4°36 | 16° 1 | 6°25 | 7° 2 | 23°11 | 22°54 | 5°47 | 25°56 | 24°45 | 12° 7 | n.a. | T 20 |
| W21 | 9 48 51 | 29°12'00 | 5♓49 | 5°16 | 5°47 | 16°48 | 6°31 | 7° 8 | 23°15 | 22°56 | 5°47 | 25°47 | 24°42 | 12°13 | n.a. | W21 |
| T 22 | 9 52 48 | 0♓11'28 | 20°17 | 4°31 | 6°58 | 17°34 | 6°38 | 7°15 | 23°18 | 22°57 | 5°48 | 25°36 | 24°39 | 12°20 | n.a. | T 22 |
| F 23 | 9 56 44 | 1°10'53 | 4♈23 | 3°42 | 8°10 | 18°20 | 6°44 | 7°22 | 23°22 | 22°59 | 5°48 | 25°26 | 24°35 | 12°27 | n.a. | F 23 |
| S 24 | 10 0 41 | 2°10'16 | 18° 3 | 2°51 | 9°21 | 19° 6 | 6°50 | 7°29 | 23°25 | 23° 0 | 5°49 | 25°17 | 24°32 | 12°33 | n.a. | S 24 |
| S 25 | 10 4 37 | 3° 9'37 | 1♉16 | 1°58 | 10°32 | 19°52 | 6°56 | 7°36 | 23°29 | 23° 2 | 5°50 | 25°11 | 24°29 | 12°40 | n.a. | S 25 |
| M26 | 10 8 34 | 4° 8'55 | 14° 3 | 1° 6 | 11°43 | 20°38 | 7° 2 | 7°43 | 23°32 | 23° 4 | 5°51 | 25° 7 | 24°26 | 12°47 | n.a. | M26 |
| T 27 | 10 12 30 | 5° 8'11 | 26°27 | 0°14 | 12°53 | 21°24 | 7° 7 | 7°50 | 23°35 | 23° 5 | 5°51 | 25° 5 | 24°23 | 12°53 | n.a. | T 27 |
| W28 | 10 16 27 | 6° 7'24 | 8♊34 | 29♒24 | 14° 4 | 22°10 | 7°13 | 7°57 | 23°39 | 23° 7 | 5°52 | 25°D 4 | 24°19 | 13° 0 | n.a. | W28 |
| T 29 | 10 20 23 | 7♓ 6'36 | 20♊29 | 28♒36 | 15♈15 | 22♑56 | 7♐18 | 8♈ 4 | 23♒42 | 23♈ 9 | 5♉53 | 25°R 5 | 24♐16 | 13♋ 7 | n.a. | T 29 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 18s 8 | 23n51 | 1n21 | 13s 8 | 0n 7 | 8s 4 | 0s53 | 24s24 | 0s42 | 20s36 | 0n34 | 0s10 | 2s25 | 14s59 | 0s43 | 7n 4 | 1s56 | 1n48 | 12s26 | 23s41 | 23s38 | 22n 3 | | n.a. |
| F 2 | 17 52 | 23 52 | 0 18 | 12 23 | 0 20 | 7 33 | 0 51 | 24 24 | 0 43 | 20 38 | 0 34 | 0 8 | 2 25 | 14 58 | 0 43 | 7 4 | 1 56 | 1 49 | 12 26 | 23 41 | 23 38 | 22 2 | | n.a. |
| S 3 | 17 35 | 22 49 | 0s46 | 11 39 | 0 34 | 7 2 | 0 48 | 24 24 | 0 43 | 20 40 | 0 34 | 0 5 | 2 24 | 14 57 | 0 43 | 7 5 | 1 56 | 1 49 | 12 26 | 23 41 | 23 38 | 22 1 | | n.a. |
| S 4 | 17 18 | 20 46 | 1 48 | 10 56 | 0 48 | 6 31 | 0 45 | 24 23 | 0 44 | 20 42 | 0 34 | 0 3 | 2 24 | 14 55 | 0 43 | 7 5 | 1 56 | 1 50 | 12 26 | 23 41 | 23 38 | 21 59 | | n.a. |
| M 5 | 17 1 | 17 48 | 2 45 | 10 15 | 1 2 | 6 0 | 0 43 | 24 23 | 0 45 | 20 43 | 0 34 | 0 0 | 2 24 | 14 54 | 0 43 | 7 6 | 1 56 | 1 50 | 12 25 | 23 40 | 23 38 | 21 58 | | n.a. |
| T 6 | 16 44 | 14 6 | 3 36 | 9 35 | 1 16 | 5 29 | 0 40 | 24 22 | 0 46 | 20 45 | 0 34 | 0n 2 | 2 24 | 14 53 | 0 43 | 7 6 | 1 56 | 1 50 | 12 25 | 23 40 | 23 38 | 21 57 | | n.a. |
| W 7 | 16 26 | 9 47 | 4 17 | 8 57 | 1 31 | 4 58 | 0 37 | 24 20 | 0 46 | 20 46 | 0 34 | 0 5 | 2 24 | 14 52 | 0 43 | 7 7 | 1 56 | 1 51 | 12 25 | 23 40 | 23 38 | 21 55 | | n.a. |
| T 8 | 16 8 | 5 1 | 4 47 | 8 21 | 1 45 | 4 27 | 0 34 | 24 19 | 0 47 | 20 48 | 0 34 | 0 7 | 2 23 | 14 51 | 0 43 | 7 7 | 1 56 | 1 51 | 12 24 | 23 40 | 23 37 | 21 54 | | n.a. |
| F 9 | 15 50 | 0 1 | 5 3 | 7 48 | 2 0 | 3 55 | 0 31 | 24 17 | 0 48 | 20 49 | 0 34 | 0 10 | 2 23 | 14 50 | 0 43 | 7 8 | 1 56 | 1 51 | 12 24 | 23 40 | 23 37 | 21 52 | | n.a. |
| S 10 | 15 31 | 5s 4 | 5 6 | 7 19 | 2 14 | 3 24 | 0 28 | 24 15 | 0 49 | 20 51 | 0 34 | 0 13 | 2 23 | 14 49 | 0 43 | 7 8 | 1 56 | 1 52 | 12 24 | 23 39 | 23 37 | 21 51 | | n.a. |
| S 11 | 15 13 | 10 1 | 4 52 | 6 53 | 2 27 | 2 52 | 0 25 | 24 12 | 0 49 | 20 52 | 0 34 | 0 15 | 2 23 | 14 48 | 0 43 | 7 9 | 1 55 | 1 52 | 12 24 | 23 39 | 23 37 | 21 50 | | n.a. |
| M12 | 14 54 | 14 36 | 4 24 | 6 30 | 2 40 | 2 20 | 0 22 | 24 10 | 0 50 | 20 54 | 0 34 | 0 18 | 2 23 | 14 46 | 0 43 | 7 9 | 1 55 | 1 53 | 12 23 | 23 39 | 23 37 | 21 48 | | n.a. |
| T 13 | 14 34 | 18 34 | 3 41 | 6 12 | 2 52 | 1 48 | 0 19 | 24 7 | 0 51 | 20 55 | 0 34 | 0 20 | 2 22 | 14 45 | 0 43 | 7 10 | 1 55 | 1 53 | 12 23 | 23 39 | 23 37 | 21 47 | | n.a. |
| W14 | 14 15 | 21 37 | 2 44 | 5 57 | 3 4 | 1 17 | 0 16 | 24 4 | 0 51 | 20 56 | 0 34 | 0 23 | 2 22 | 14 44 | 0 43 | 7 10 | 1 55 | 1 53 | 12 23 | 23 39 | 23 37 | 21 45 | | n.a. |
| T 15 | 13 55 | 23 27 | 1 37 | 5 47 | 3 14 | 0 45 | 0 13 | 24 0 | 0 52 | 20 58 | 0 34 | 0 26 | 2 22 | 14 43 | 0 43 | 7 11 | 1 55 | 1 54 | 12 22 | 23 39 | 23 37 | 21 44 | | n.a. |
| F 16 | 13 35 | 23 50 | 0 22 | 5 41 | 3 23 | 0 13 | 0 9 | 23 57 | 0 53 | 20 59 | 0 34 | 0 29 | 2 22 | 14 42 | 0 43 | 7 11 | 1 55 | 1 54 | 12 22 | 23 39 | 23 37 | 21 43 | | n.a. |
| S 17 | 13 15 | 22 37 | 0n55 | 5 39 | 3 30 | 0n19 | 0 6 | 23 53 | 0 54 | 21 0 | 0 34 | 0 31 | 2 22 | 14 41 | 0 43 | 7 12 | 1 55 | 1 55 | 12 22 | 23 39 | 23 36 | 21 41 | | n.a. |
| S 18 | 12 55 | 19 51 | 2 10 | 5 42 | 3 36 | 0 51 | 0 3 | 23 49 | 0 54 | 21 2 | 0 34 | 0 34 | 2 22 | 14 40 | 0 43 | 7 12 | 1 55 | 1 55 | 12 22 | 23 39 | 23 36 | 21 40 | | n.a. |
| M19 | 12 34 | 15 45 | 3 17 | 5 49 | 3 40 | 1 23 | 0n 1 | 23 44 | 0 55 | 21 3 | 0 34 | 0 37 | 2 21 | 14 38 | 0 43 | 7 13 | 1 55 | 1 56 | 12 21 | 23 39 | 23 36 | 21 38 | | n.a. |
| T 20 | 12 14 | 10 41 | 4 10 | 5 59 | 3 43 | 1 54 | 0 4 | 23 39 | 0 56 | 21 4 | 0 34 | 0 40 | 2 21 | 14 37 | 0 43 | 7 14 | 1 55 | 1 56 | 12 21 | 23 39 | 23 36 | 21 37 | | n.a. |
| W21 | 11 53 | 5 4 | 4 46 | 6 14 | 3 43 | 2 26 | 0 7 | 23 34 | 0 56 | 21 5 | 0 34 | 0 42 | 2 21 | 14 36 | 0 43 | 7 14 | 1 55 | 1 57 | 12 21 | 23 38 | 23 36 | 21 35 | | n.a. |
| T 22 | 11 32 | 0n44 | 5 2 | 6 31 | 3 42 | 2 58 | 0 11 | 23 29 | 0 57 | 21 6 | 0 34 | 0 45 | 2 21 | 14 35 | 0 43 | 7 15 | 1 55 | 1 57 | 12 20 | 23 38 | 23 36 | 21 34 | | n.a. |
| F 23 | 11 10 | 6 20 | 5 0 | 6 52 | 3 39 | 3 29 | 0 14 | 23 24 | 0 58 | 21 7 | 0 34 | 0 48 | 2 21 | 14 34 | 0 43 | 7 15 | 1 55 | 1 58 | 12 20 | 23 38 | 23 36 | 21 33 | | n.a. |
| S 24 | 10 49 | 11 28 | 4 40 | 7 15 | 3 34 | 4 1 | 0 18 | 23 18 | 0 59 | 21 8 | 0 34 | 0 51 | 2 21 | 14 33 | 0 43 | 7 16 | 1 55 | 1 58 | 12 20 | 23 37 | 23 36 | 21 31 | | n.a. |
| S 25 | 10 27 | 15 53 | 4 6 | 7 40 | 3 27 | 4 32 | 0 21 | 23 12 | 0 59 | 21 9 | 0 34 | 0 54 | 2 21 | 14 32 | 0 43 | 7 17 | 1 55 | 1 58 | 12 20 | 23 37 | 23 35 | 21 30 | | n.a. |
| M26 | 10 6 | 19 25 | 3 20 | 8 7 | 3 19 | 5 4 | 0 25 | 23 5 | 1 0 | 21 10 | 0 34 | 0 57 | 2 20 | 14 31 | 0 43 | 7 17 | 1 55 | 1 59 | 12 19 | 23 37 | 23 35 | 21 28 | | n.a. |
| T 27 | 9 44 | 21 57 | 2 26 | 8 34 | 3 9 | 5 35 | 0 29 | 22 59 | 1 1 | 21 11 | 0 34 | 1 0 | 2 20 | 14 29 | 0 43 | 7 18 | 1 55 | 1 59 | 12 19 | 23 37 | 23 35 | 21 27 | | n.a. |
| W28 | 9 22 | 23 24 | 1 27 | 9 2 | 2 58 | 6 6 | 0 32 | 22 52 | 1 1 | 21 12 | 0 34 | 1 3 | 2 20 | 14 28 | 0 43 | 7 19 | 1 55 | 2 0 | 12 19 | 23 37 | 23 35 | 21 25 | | n.a. |
| T 29 | 9s 0 | 23n46 | 0n24 | 9s31 | 2n45 | 6n37 | 0n36 | 22s45 | 1s 2 | 21s13 | 0n34 | 1n 6 | 2s20 | 14s27 | 0s44 | 7n19 | 1s54 | 2n 0 | 12s19 | 23s37 | 23s35 | 21n24 | | n.a. |

Julian Day Number = 1687485.5, Delta T = 03h12m14s
Ecliptic obliquity = 23°42'22, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°20'52, Lahiri = - 5°13'52 Julian Calendar 1 Feb. 93 BCE == Greg. Calendar 30 Jan. 093 BCE

The year -92 astronomical counting style corresponds to year 093 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 93 BCE
# geocentric

## MARCH 93 BCE (-92) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 10 24 20 | 8♓ 5'44 | 2♋18 | 27°R52 | 16♈25 | 23♉43 | 7♐23 | 8♈11 | 23♒45 | 23♈10 | 5♉54 | 25°R 5 | 24♐13 | 13♋13 | n.a. | F 1 |
| S 2 | 10 28 17 | 9° 4'51 | 14° 5 | 27♒13 | 17°36 | 24°29 | 7°28 | 8°18 | 23°49 | 23°12 | 5°54 | 25♐ 3 | 24°10 | 13°20 | n.a. | S 2 |
| S 3 | 10 32 13 | 10° 3'55 | 25°55 | 26°37 | 18°46 | 25°15 | 7°33 | 8°25 | 23°52 | 23°14 | 5°55 | 24°59 | 24° 7 | 13°27 | n.a. | S 3 |
| M 4 | 10 36 10 | 11° 2'56 | 7♌53 | 26° 7 | 19°56 | 26° 1 | 7°37 | 8°32 | 23°55 | 23°15 | 5°56 | 24°52 | 24° 4 | 13°33 | n.a. | M 4 |
| T 5 | 10 40 6 | 12° 1'56 | 20° 1 | 25°42 | 21° 6 | 26°47 | 7°42 | 8°40 | 23°59 | 23°17 | 5°57 | 24°43 | 24° 0 | 13°40 | n.a. | T 5 |
| W 6 | 10 44 3 | 13° 0'53 | 2♍22 | 25°23 | 22°16 | 27°33 | 7°46 | 8°47 | 24° 2 | 23°19 | 5°58 | 24°32 | 23°57 | 13°47 | n.a. | W 6 |
| T 7 | 10 47 59 | 13°59'47 | 14°56 | 25° 9 | 23°26 | 28°19 | 7°50 | 8°54 | 24° 5 | 23°21 | 5°59 | 24°19 | 23°54 | 13°53 | n.a. | T 7 |
| F 8 | 10 51 56 | 14°58'40 | 27°43 | 25° 0 | 24°35 | 29° 5 | 7°54 | 9° 2 | 24° 9 | 23°23 | 6° 0 | 24° 5 | 23°51 | 14° 0 | n.a. | F 8 |
| S 9 | 10 55 52 | 15°57'31 | 10♎43 | 24°D57 | 25°45 | 29°51 | 7°58 | 9° 9 | 24°12 | 23°25 | 6° 1 | 23°53 | 23°48 | 14° 6 | n.a. | S 9 |
| S 10 | 10 59 49 | 16°56'20 | 23°55 | 25° 0 | 26°54 | 0♒37 | 8° 1 | 9°16 | 24°15 | 23°26 | 6° 1 | 23°43 | 23°45 | 14°13 | n.a. | S 10 |
| M11 | 11 3 45 | 17°55'06 | 7♏18 | 25° 8 | 28° 3 | 1°24 | 8° 5 | 9°24 | 24°18 | 23°28 | 6° 2 | 23°36 | 23°41 | 14°20 | n.a. | M11 |
| T 12 | 11 7 42 | 18°53'51 | 20°51 | 25°21 | 29°12 | 2°10 | 8° 8 | 9°31 | 24°22 | 23°30 | 6° 3 | 23°31 | 23°38 | 14°26 | n.a. | T 12 |
| W13 | 11 11 39 | 19°52'35 | 4♐35 | 25°39 | 0♉21 | 2°56 | 8°11 | 9°39 | 24°25 | 23°32 | 6° 4 | 23°29 | 23°35 | 14°33 | n.a. | W13 |
| T 14 | 11 15 35 | 20°51'16 | 18°28 | 26° 1 | 1°30 | 3°42 | 8°14 | 9°46 | 24°28 | 23°34 | 6° 5 | 23°29 | 23°32 | 14°40 | n.a. | T 14 |
| F 15 | 11 19 32 | 21°49'56 | 2♑32 | 26°28 | 2°39 | 4°28 | 8°16 | 9°54 | 24°31 | 23°36 | 6° 6 | 23°28 | 23°29 | 14°46 | n.a. | F 15 |
| S 16 | 11 23 28 | 22°48'34 | 16°46 | 27° 0 | 3°48 | 5°14 | 8°19 | 10° 1 | 24°34 | 23°38 | 6° 7 | 23°27 | 23°25 | 14°53 | n.a. | S 16 |
| S 17 | 11 27 25 | 23°47'11 | 1♒ 8 | 27°35 | 4°56 | 6° 0 | 8°21 | 10° 9 | 24°37 | 23°40 | 6° 8 | 23°24 | 23°22 | 15° 0 | n.a. | S 17 |
| M18 | 11 31 21 | 24°45'45 | 15°35 | 28°15 | 6° 4 | 6°46 | 8°23 | 10°17 | 24°40 | 23°42 | 6° 9 | 23°18 | 23°19 | 15° 6 | n.a. | M18 |
| T 19 | 11 35 18 | 25°44'18 | 0♓ 3 | 28°58 | 7°12 | 7°32 | 8°25 | 10°24 | 24°43 | 23°44 | 6°11 | 23°10 | 23°16 | 15°13 | n.a. | T 19 |
| W20 | 11 39 14 | 26°42'48 | 14°26 | 29°44 | 8°20 | 8°18 | 8°27 | 10°32 | 24°46 | 23°46 | 6°12 | 22°59 | 23°13 | 15°20 | n.a. | W20 |
| T 21 | 11 43 11 | 27°41'17 | 28°36 | 0♓35 | 9°28 | 9° 4 | 8°28 | 10°39 | 24°49 | 23°48 | 6°13 | 22°47 | 23°10 | 15°26 | n.a. | T 21 |
| F 22 | 11 47 8 | 28°39'44 | 12♈29 | 1°28 | 10°36 | 9°50 | 8°30 | 10°47 | 24°52 | 23°50 | 6°14 | 22°35 | 23° 6 | 15°33 | n.a. | F 22 |
| S 23 | 11 51 4 | 29°38'09 | 26° 1 | 2°24 | 11°43 | 10°36 | 8°31 | 10°55 | 24°55 | 23°52 | 6°15 | 22°24 | 23° 3 | 15°40 | n.a. | S 23 |
| S 24 | 11 55 1 | 0♈36'31 | 9♉10 | 3°24 | 12°50 | 11°22 | 8°32 | 11° 3 | 24°58 | 23°54 | 6°16 | 22°16 | 23° 0 | 15°46 | n.a. | S 24 |
| M25 | 11 58 57 | 1°34'52 | 21°56 | 4°26 | 13°58 | 12° 8 | 8°33 | 11°10 | 25° 1 | 23°56 | 6°17 | 22°10 | 22°57 | 15°53 | n.a. | M25 |
| T 26 | 12 2 54 | 2°33'11 | 4♊21 | 5°31 | 15° 4 | 12°54 | 8°33 | 11°18 | 25° 4 | 23°59 | 6°18 | 22° 7 | 22°54 | 16° 0 | n.a. | T 26 |
| W27 | 12 6 50 | 3°31'27 | 16°30 | 6°38 | 16°11 | 13°40 | 8°34 | 11°26 | 25° 7 | 24° 1 | 6°20 | 22° 6 | 22°51 | 16° 6 | n.a. | W27 |
| T 28 | 12 10 47 | 4°29'42 | 28°26 | 7°48 | 17°18 | 14°25 | 8°34 | 11°34 | 25°10 | 24° 3 | 6°21 | 22° 6 | 22°47 | 16°13 | n.a. | T 28 |
| F 29 | 12 14 43 | 5°27'54 | 10♋16 | 9° 1 | 18°24 | 15°11 | 8°R34 | 11°41 | 25°13 | 24° 5 | 6°22 | 22° 6 | 22°44 | 16°20 | n.a. | F 29 |
| S 30 | 12 18 40 | 6°26'04 | 22° 5 | 10°16 | 19°30 | 15°57 | 8°34 | 11°49 | 25°16 | 24° 7 | 6°23 | 22° 5 | 22°41 | 16°26 | n.a. | S 30 |
| S 31 | 12 22 36 | 7♈24'12 | 3♌58 | 11♓33 | 20♉36 | 16♒43 | 8♐34 | 11♈57 | 25♒18 | 24♈ 9 | 6♉24 | 22♐ 2 | 22♐38 | 16♋33 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 8s38 | 23n 3 | 0s38 | 9s58 | 2n32 | 7n 8 | 0n39 | 22s38 | 1s 3 | 21s14 | 0n34 | 1n 9 | 2s20 | 14s26 | 0s44 | 7n20 | 1s54 | 2n 1 | 12s18 | 23s37 | 23s35 | 21n22 | | n.a. |
| S 2 | 8 15 | 21 19 | 1 39 | 10 25 | 2 18 | 7 39 | 0 43 | 22 30 | 1 3 | 21 15 | 0 34 | 1 11 | 2 20 | 14 25 | 0 44 | 7 21 | 1 54 | 2 1 | 12 18 | 23 37 | 23 35 | 21 21 | | n.a. |
| S 3 | 7 53 | 18 39 | 2 36 | 10 51 | 2 3 | 8 9 | 0 47 | 22 23 | 1 4 | 21 15 | 0 34 | 1 14 | 2 20 | 14 24 | 0 44 | 7 21 | 1 54 | 2 2 | 12 18 | 23 37 | 23 34 | 21 19 | | n.a. |
| M 4 | 7 30 | 15 11 | 3 26 | 11 16 | 1 48 | 8 39 | 0 50 | 22 15 | 1 5 | 21 16 | 0 34 | 1 17 | 2 19 | 14 23 | 0 44 | 7 22 | 1 54 | 2 2 | 12 18 | 23 36 | 23 34 | 21 18 | | n.a. |
| T 5 | 7 7 | 11 3 | 4 8 | 11 39 | 1 32 | 9 9 | 0 54 | 22 6 | 1 5 | 21 17 | 0 34 | 1 20 | 2 19 | 14 22 | 0 44 | 7 23 | 1 54 | 2 3 | 12 17 | 23 36 | 23 34 | 21 16 | | n.a. |
| W 6 | 6 45 | 6 25 | 4 39 | 12 0 | 1 17 | 9 39 | 0 58 | 21 58 | 1 6 | 21 18 | 0 34 | 1 23 | 2 19 | 14 21 | 0 44 | 7 23 | 1 54 | 2 3 | 12 17 | 23 35 | 23 34 | 21 15 | | n.a. |
| T 7 | 6 22 | 1 27 | 4 57 | 12 19 | 1 1 | 10 9 | 1 1 | 21 49 | 1 7 | 21 18 | 0 34 | 1 26 | 2 19 | 14 19 | 0 44 | 7 24 | 1 54 | 2 4 | 12 17 | 23 35 | 23 34 | 21 13 | | n.a. |
| F 8 | 5 59 | 3s40 | 5 0 | 12 37 | 0 46 | 10 38 | 1 5 | 21 40 | 1 7 | 21 19 | 0 34 | 1 29 | 2 19 | 14 18 | 0 44 | 7 25 | 1 54 | 2 4 | 12 17 | 23 34 | 23 34 | 21 12 | | n.a. |
| S 9 | 5 36 | 8 41 | 4 48 | 12 52 | 0 31 | 11 7 | 1 9 | 21 31 | 1 8 | 21 20 | 0 34 | 1 32 | 2 19 | 14 17 | 0 44 | 7 26 | 1 54 | 2 5 | 12 16 | 23 34 | 23 34 | 21 10 | | n.a. |
| S 10 | 5 13 | 13 24 | 4 20 | 13 5 | 0 16 | 11 36 | 1 12 | 21 22 | 1 9 | 21 20 | 0 34 | 1 35 | 2 19 | 14 16 | 0 44 | 7 26 | 1 54 | 2 5 | 12 16 | 23 33 | 23 33 | 21 9 | | n.a. |
| M11 | 4 50 | 17 32 | 3 38 | 13 15 | 0 2 | 12 5 | 1 16 | 21 12 | 1 9 | 21 21 | 0 34 | 1 39 | 2 19 | 14 15 | 0 44 | 7 27 | 1 54 | 2 6 | 12 16 | 23 33 | 23 33 | 21 7 | | n.a. |
| T 12 | 4 26 | 20 47 | 2 43 | 13 24 | 0s12 | 12 33 | 1 20 | 21 2 | 1 10 | 21 21 | 0 34 | 1 42 | 2 19 | 14 14 | 0 44 | 7 28 | 1 54 | 2 6 | 12 16 | 23 33 | 23 33 | 21 6 | | n.a. |
| W13 | 4 3 | 22 54 | 1 38 | 13 30 | 0 25 | 13 1 | 1 23 | 20 52 | 1 11 | 21 22 | 0 34 | 1 45 | 2 18 | 14 13 | 0 44 | 7 29 | 1 54 | 2 7 | 12 15 | 23 33 | 23 33 | 21 4 | | n.a. |
| T 14 | 3 40 | 23 38 | 0 26 | 13 34 | 0 37 | 13 29 | 1 27 | 20 42 | 1 11 | 21 22 | 0 34 | 1 48 | 2 18 | 14 12 | 0 44 | 7 29 | 1 54 | 2 8 | 12 15 | 23 33 | 23 33 | 21 2 | | n.a. |
| F 15 | 3 16 | 22 53 | 0n48 | 13 36 | 0 50 | 13 57 | 1 31 | 20 31 | 1 12 | 21 23 | 0 34 | 1 51 | 2 18 | 14 11 | 0 44 | 7 30 | 1 54 | 2 8 | 12 15 | 23 33 | 23 33 | 21 1 | | n.a. |
| S 16 | 2 53 | 20 40 | 2 0 | 13 36 | 1 1 | 14 24 | 1 34 | 20 21 | 1 13 | 21 23 | 0 34 | 1 54 | 2 18 | 14 10 | 0 44 | 7 31 | 1 54 | 2 9 | 12 15 | 23 33 | 23 32 | 20 59 | | n.a. |
| S 17 | 2 30 | 17 7 | 3 5 | 13 34 | 1 12 | 14 51 | 1 38 | 20 10 | 1 13 | 21 23 | 0 34 | 1 57 | 2 18 | 14 9 | 0 44 | 7 32 | 1 54 | 2 9 | 12 15 | 23 32 | 23 32 | 20 58 | | n.a. |
| M18 | 2 6 | 12 33 | 3 59 | 13 30 | 1 22 | 15 17 | 1 41 | 19 59 | 1 14 | 21 24 | 0 34 | 2 0 | 2 18 | 14 8 | 0 44 | 7 32 | 1 54 | 2 10 | 12 14 | 23 32 | 23 32 | 20 56 | | n.a. |
| T 19 | 1 43 | 7 16 | 4 37 | 13 24 | 1 32 | 15 43 | 1 45 | 19 47 | 1 14 | 21 24 | 0 34 | 2 3 | 2 18 | 14 7 | 0 44 | 7 33 | 1 54 | 2 10 | 12 14 | 23 32 | 23 32 | 20 55 | | n.a. |
| W20 | 1 19 | 1 38 | 4 57 | 13 16 | 1 41 | 16 9 | 1 48 | 19 36 | 1 15 | 21 24 | 0 34 | 2 6 | 2 18 | 14 6 | 0 44 | 7 34 | 1 54 | 2 11 | 12 14 | 23 31 | 23 32 | 20 53 | | n.a. |
| T 21 | 0 56 | 4n 0 | 4 59 | 13 6 | 1 49 | 16 34 | 1 52 | 19 24 | 1 16 | 21 25 | 0 33 | 2 9 | 2 18 | 14 5 | 0 44 | 7 35 | 1 54 | 2 11 | 12 14 | 23 30 | 23 32 | 20 52 | | n.a. |
| F 22 | 0 32 | 9 19 | 4 43 | 12 54 | 1 57 | 16 59 | 1 55 | 19 12 | 1 16 | 21 25 | 0 33 | 2 12 | 2 18 | 14 4 | 0 44 | 7 36 | 1 54 | 2 12 | 12 14 | 23 30 | 23 31 | 20 50 | | n.a. |
| S 23 | 0 9 | 14 3 | 4 11 | 12 40 | 2 4 | 17 24 | 1 59 | 19 0 | 1 17 | 21 25 | 0 33 | 2 15 | 2 18 | 14 3 | 0 44 | 7 36 | 1 54 | 2 12 | 12 13 | 23 29 | 23 31 | 20 48 | | n.a. |
| S 24 | 0n15 | 17 58 | 3 27 | 12 24 | 2 11 | 17 48 | 2 2 | 18 48 | 1 17 | 21 25 | 0 33 | 2 19 | 2 18 | 14 2 | 0 44 | 7 37 | 1 54 | 2 13 | 12 13 | 23 29 | 23 31 | 20 47 | | n.a. |
| M25 | 0 38 | 20 54 | 2 33 | 12 6 | 2 17 | 18 12 | 2 5 | 18 36 | 1 18 | 21 25 | 0 33 | 2 22 | 2 18 | 14 1 | 0 44 | 7 38 | 1 54 | 2 13 | 12 13 | 23 28 | 23 31 | 20 45 | | n.a. |
| T 26 | 1 2 | 22 46 | 1 33 | 11 47 | 2 22 | 18 35 | 2 8 | 18 23 | 1 19 | 21 26 | 0 33 | 2 25 | 2 18 | 14 0 | 0 44 | 7 39 | 1 54 | 2 14 | 12 13 | 23 28 | 23 31 | 20 44 | | n.a. |
| W27 | 1 25 | 23 30 | 0 30 | 11 26 | 2 26 | 18 58 | 2 12 | 18 10 | 1 19 | 21 26 | 0 33 | 2 28 | 2 18 | 13 59 | 0 44 | 7 40 | 1 54 | 2 14 | 12 13 | 23 28 | 23 31 | 20 42 | | n.a. |
| T 28 | 1 48 | 23 8 | 0s34 | 11 3 | 2 31 | 19 20 | 2 15 | 17 57 | 1 20 | 21 26 | 0 33 | 2 31 | 2 17 | 13 58 | 0 44 | 7 40 | 1 53 | 2 15 | 12 13 | 23 28 | 23 30 | 20 40 | | n.a. |
| F 29 | 2 12 | 21 44 | 1 35 | 10 39 | 2 34 | 19 42 | 2 18 | 17 44 | 1 20 | 21 26 | 0 33 | 2 34 | 2 17 | 13 57 | 0 44 | 7 41 | 1 53 | 2 15 | 12 12 | 23 28 | 23 30 | 20 39 | | n.a. |
| S 30 | 2 35 | 19 22 | 2 32 | 10 13 | 2 37 | 20 4 | 2 21 | 17 31 | 1 21 | 21 26 | 0 33 | 2 37 | 2 17 | 13 56 | 0 44 | 7 42 | 1 53 | 2 16 | 12 12 | 23 28 | 23 30 | 20 37 | | n.a. |
| S 31 | 2n58 | 16n11 | 3s23 | 9s45 | 2s39 | 20n25 | 2n24 | 17s18 | 1s21 | 21s26 | 0n33 | 2n40 | 2s17 | 13s55 | 0s44 | 7n43 | 1s53 | 2n17 | 12s12 | 23s28 | 23s30 | 20n36 | | n.a. |

Julian Day Number = 1687514.5, Delta T = 03h12m13s
Ecliptic obliquity = 23°42'22, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°20'48, Lahiri = - 5°13'48 Julian Calendar 1 March 93 BCE == Greg. Calendar 28 Feb. 093 BCE

The year -92 astronomical counting style corresponds to year 093 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 93 BCE
# geocentric

## APRIL 93 BCE (-92) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 12 26 33 | 8♈22'18 | 16♌ 0 | 12♓52 | 21♉42 | 17♒29 | 8°R33 | 12♈ 5 | 25♒21 | 24♈12 | 6♉26 | 21°R57 | 22♐35 | 16♋40 | n.a. | M 1 |
| T 2 | 12 30 30 | 9°20'22 | 28°15 | 14°14 | 22°48 | 18°14 | 8♐32 | 12°13 | 25°24 | 24°14 | 6°27 | 21♐49 | 22°31 | 16°46 | n.a. | T 2 |
| W 3 | 12 34 26 | 10°18'24 | 10♍45 | 15°38 | 23°53 | 19° 0 | 8°32 | 12°20 | 25°26 | 24°16 | 6°28 | 21°39 | 22°28 | 16°53 | n.a. | W 3 |
| T 4 | 12 38 23 | 11°16'24 | 23°33 | 17° 3 | 24°58 | 19°46 | 8°31 | 12°28 | 25°29 | 24°18 | 6°29 | 21°28 | 22°25 | 17° 0 | n.a. | T 4 |
| F 5 | 12 42 19 | 12°14'22 | 6♎38 | 18°31 | 26° 3 | 20°31 | 8°29 | 12°36 | 25°32 | 24°20 | 6°30 | 21°16 | 22°22 | 17° 6 | n.a. | F 5 |
| S 6 | 12 46 16 | 13°12'19 | 20° 0 | 20° 1 | 27° 7 | 21°17 | 8°28 | 12°44 | 25°34 | 24°22 | 6°32 | 21° 5 | 22°19 | 17°13 | n.a. | S 6 |
| S 7 | 12 50 12 | 14°10'14 | 3♏35 | 21°33 | 28°12 | 22° 3 | 8°26 | 12°52 | 25°37 | 24°25 | 6°33 | 20°56 | 22°16 | 17°20 | n.a. | S 7 |
| M 8 | 12 54 9 | 15° 8'07 | 17°22 | 23° 7 | 29°16 | 22°48 | 8°24 | 12°59 | 25°39 | 24°27 | 6°34 | 20°49 | 22°12 | 17°26 | n.a. | M 8 |
| T 9 | 12 58 5 | 16° 5'59 | 1♐17 | 24°43 | 0♊20 | 23°34 | 8°22 | 13° 7 | 25°42 | 24°29 | 6°36 | 20°46 | 22° 9 | 17°33 | n.a. | T 9 |
| W10 | 13 2 2 | 17° 3'50 | 15°18 | 26°21 | 1°23 | 24°19 | 8°20 | 13°15 | 25°44 | 24°31 | 6°37 | 20°D44 | 22° 6 | 17°40 | n.a. | W10 |
| T 11 | 13 5 59 | 18° 1'39 | 29°23 | 28° 1 | 2°27 | 25° 5 | 8°18 | 13°23 | 25°47 | 24°34 | 6°38 | 20°44 | 22° 3 | 17°46 | n.a. | T 11 |
| F 12 | 13 9 55 | 18°59'27 | 13♑30 | 29°43 | 3°30 | 25°50 | 8°15 | 13°31 | 25°49 | 24°36 | 6°39 | 20°R45 | 22° 0 | 17°53 | n.a. | F 12 |
| S 13 | 13 13 52 | 19°57'14 | 27°39 | 1♈27 | 4°32 | 26°35 | 8°13 | 13°38 | 25°51 | 24°38 | 6°41 | 20°45 | 21°56 | 17°59 | n.a. | S 13 |
| S 14 | 13 17 48 | 20°54'59 | 11♒48 | 3°13 | 5°35 | 27°21 | 8°10 | 13°46 | 25°54 | 24°40 | 6°42 | 20°43 | 21°53 | 18° 6 | n.a. | S 14 |
| M15 | 13 21 45 | 21°52'44 | 25°55 | 5° 1 | 6°37 | 28° 6 | 8° 7 | 13°54 | 25°56 | 24°43 | 6°43 | 20°39 | 21°50 | 18°13 | n.a. | M15 |
| T 16 | 13 25 41 | 22°50'27 | 9♓58 | 6°51 | 7°39 | 28°52 | 8° 3 | 14° 2 | 25°58 | 24°45 | 6°45 | 20°32 | 21°47 | 18°19 | n.a. | T 16 |
| W17 | 13 29 38 | 23°48'09 | 23°53 | 8°43 | 8°40 | 29°37 | 8° 0 | 14° 9 | 26° 0 | 24°47 | 6°46 | 20°24 | 21°44 | 18°26 | n.a. | W17 |
| T 18 | 13 33 34 | 24°45'49 | 7♈38 | 10°37 | 9°42 | 0♓22 | 7°56 | 14°17 | 26° 2 | 24°49 | 6°47 | 20°15 | 21°41 | 18°33 | n.a. | T 18 |
| F 19 | 13 37 31 | 25°43'28 | 21° 9 | 12°33 | 10°43 | 1° 7 | 7°53 | 14°25 | 26° 5 | 24°52 | 6°49 | 20° 6 | 21°37 | 18°39 | n.a. | F 19 |
| S 20 | 13 41 28 | 26°41'06 | 4♉22 | 14°31 | 11°43 | 1°52 | 7°49 | 14°32 | 26° 7 | 24°54 | 6°50 | 19°58 | 21°34 | 18°46 | n.a. | S 20 |
| S 21 | 13 45 24 | 27°38'43 | 17°18 | 16°31 | 12°43 | 2°37 | 7°44 | 14°40 | 26° 9 | 24°56 | 6°51 | 19°52 | 21°31 | 18°53 | n.a. | S 21 |
| M22 | 13 49 21 | 28°36'18 | 29°55 | 18°32 | 13°43 | 3°23 | 7°40 | 14°48 | 26°11 | 24°58 | 6°53 | 19°47 | 21°28 | 18°59 | n.a. | M22 |
| T 23 | 13 53 17 | 29°33'52 | 12♊16 | 20°35 | 14°43 | 4° 8 | 7°36 | 14°55 | 26°13 | 25° 1 | 6°54 | 19°45 | 21°25 | 19° 6 | n.a. | T 23 |
| W24 | 13 57 14 | 0♉31'24 | 24°22 | 22°40 | 15°42 | 4°53 | 7°31 | 15° 3 | 26°15 | 25° 3 | 6°56 | 19°D45 | 21°22 | 19°13 | n.a. | W24 |
| T 25 | 14 1 10 | 1°28'55 | 6♋19 | 24°47 | 16°41 | 5°37 | 7°26 | 15°11 | 26°16 | 25° 5 | 6°57 | 19°46 | 21°18 | 19°19 | n.a. | T 25 |
| F 26 | 14 5 7 | 2°26'25 | 18° 9 | 26°55 | 17°39 | 6°22 | 7°22 | 15°18 | 26°18 | 25° 7 | 6°58 | 19°48 | 21°15 | 19°26 | n.a. | F 26 |
| S 27 | 14 9 3 | 3°23'53 | 29°59 | 29° 4 | 18°37 | 7° 7 | 7°16 | 15°26 | 26°20 | 25°10 | 7° 0 | 19°R48 | 21°12 | 19°33 | n.a. | S 27 |
| S 28 | 14 13 0 | 4°21'20 | 11♌53 | 1♉14 | 19°34 | 7°52 | 7°11 | 15°33 | 26°22 | 25°12 | 7° 1 | 19°48 | 21° 9 | 19°39 | n.a. | S 28 |
| M29 | 14 16 57 | 5°18'45 | 23°56 | 3°25 | 20°31 | 8°37 | 7° 6 | 15°41 | 26°24 | 25°14 | 7° 2 | 19°46 | 21° 6 | 19°46 | n.a. | M29 |
| T 30 | 14 20 53 | 6♉16'09 | 6♍14 | 5♉36 | 21♊28 | 9♓21 | 7♐ 0 | 15♈48 | 26♒25 | 25♈16 | 7♉ 4 | 19♐43 | 21♐ 2 | 19♋53 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 3n21 | 12n19 | 4s 5 | 9s16 | 2s41 | 20n45 | 2n27 | 17s 4 | 1s22 | 21s26 | 0n33 | 2n43 | 2s17 | 13s54 | 0s44 | 7n44 | 1s53 | 2n17 | 12s12 | 23s27 | 23s30 | 20n34 | | n.a. |
| T 2 | 3 44 | 7 53 | 4 37 | 8 45 | 2 42 | 21 5 | 2 30 | 16 50 | 1 22 | 21 26 | 0 33 | 2 46 | 2 17 | 13 53 | 0 44 | 7 45 | 1 53 | 2 18 | 12 12 | 23 27 | 23 30 | 20 32 | | n.a. |
| W 3 | 4 7 | 3 3 | 4 57 | 8 13 | 2 42 | 21 24 | 2 32 | 16 36 | 1 23 | 21 26 | 0 33 | 2 50 | 2 17 | 13 52 | 0 44 | 7 45 | 1 53 | 2 18 | 12 12 | 23 26 | 23 29 | 20 31 | | n.a. |
| T 4 | 4 30 | 2s 1 | 5 2 | 7 39 | 2 42 | 21 43 | 2 35 | 16 22 | 1 23 | 21 25 | 0 33 | 2 53 | 2 17 | 13 52 | 0 44 | 7 46 | 1 53 | 2 19 | 12 11 | 23 26 | 23 29 | 20 29 | | n.a. |
| F 5 | 4 53 | 7 7 | 4 51 | 7 3 | 2 41 | 22 2 | 2 38 | 16 8 | 1 24 | 21 25 | 0 33 | 2 56 | 2 17 | 13 51 | 0 44 | 7 47 | 1 53 | 2 19 | 12 11 | 23 25 | 23 29 | 20 27 | | n.a. |
| S 6 | 5 16 | 11 59 | 4 25 | 6 26 | 2 40 | 22 20 | 2 40 | 15 54 | 1 24 | 21 25 | 0 33 | 2 59 | 2 17 | 13 50 | 0 44 | 7 48 | 1 53 | 2 20 | 12 11 | 23 24 | 23 29 | 20 26 | | n.a. |
| S 7 | 5 39 | 16 21 | 3 43 | 5 48 | 2 38 | 22 37 | 2 43 | 15 39 | 1 25 | 21 25 | 0 33 | 3 2 | 2 17 | 13 49 | 0 44 | 7 49 | 1 53 | 2 20 | 12 11 | 23 24 | 23 29 | 20 24 | | n.a. |
| M 8 | 6 2 | 19 53 | 2 48 | 5 8 | 2 36 | 22 54 | 2 45 | 15 25 | 1 25 | 21 25 | 0 33 | 3 5 | 2 17 | 13 48 | 0 44 | 7 49 | 1 53 | 2 21 | 12 11 | 23 23 | 23 28 | 20 23 | | n.a. |
| T 9 | 6 24 | 22 18 | 1 42 | 4 27 | 2 33 | 23 10 | 2 47 | 15 10 | 1 26 | 21 24 | 0 33 | 3 8 | 2 17 | 13 47 | 0 44 | 7 50 | 1 53 | 2 21 | 12 11 | 23 23 | 23 28 | 20 21 | | n.a. |
| W10 | 6 47 | 23 22 | 0 29 | 3 44 | 2 29 | 23 26 | 2 50 | 14 55 | 1 26 | 21 24 | 0 33 | 3 11 | 2 17 | 13 47 | 0 44 | 7 51 | 1 53 | 2 22 | 12 11 | 23 23 | 23 28 | 20 19 | | n.a. |
| T 11 | 7 9 | 22 56 | 0n46 | 3 0 | 2 25 | 23 41 | 2 52 | 14 40 | 1 27 | 21 24 | 0 33 | 3 14 | 2 17 | 13 46 | 0 44 | 7 52 | 1 53 | 2 22 | 12 11 | 23 23 | 23 28 | 20 18 | | n.a. |
| F 12 | 7 31 | 21 3 | 1 59 | 2 15 | 2 20 | 23 56 | 2 54 | 14 25 | 1 27 | 21 23 | 0 33 | 3 17 | 2 17 | 13 45 | 0 44 | 7 53 | 1 53 | 2 23 | 12 10 | 23 23 | 23 28 | 20 16 | | n.a. |
| S 13 | 7 53 | 17 51 | 3 4 | 1 28 | 2 15 | 24 10 | 2 56 | 14 10 | 1 28 | 21 23 | 0 33 | 3 20 | 2 17 | 13 44 | 0 44 | 7 54 | 1 53 | 2 23 | 12 10 | 23 23 | 23 27 | 20 14 | | n.a. |
| S 14 | 8 15 | 13 38 | 3 58 | 0 41 | 2 9 | 24 23 | 2 58 | 13 54 | 1 28 | 21 22 | 0 33 | 3 23 | 2 17 | 13 43 | 0 44 | 7 54 | 1 53 | 2 24 | 12 10 | 23 23 | 23 27 | 20 13 | | n.a. |
| M15 | 8 37 | 8 40 | 4 37 | 0n 8 | 2 3 | 24 36 | 2 59 | 13 39 | 1 29 | 21 22 | 0 33 | 3 26 | 2 17 | 13 43 | 0 44 | 7 55 | 1 53 | 2 24 | 12 10 | 23 22 | 23 27 | 20 11 | | n.a. |
| T 16 | 8 59 | 3 17 | 5 0 | 0 59 | 1 56 | 24 48 | 3 1 | 13 23 | 1 29 | 21 22 | 0 33 | 3 29 | 2 17 | 13 42 | 0 44 | 7 56 | 1 53 | 2 25 | 12 10 | 23 22 | 23 27 | 20 9 | | n.a. |
| W17 | 9 20 | 2n12 | 5 5 | 1 50 | 1 49 | 25 0 | 3 3 | 13 8 | 1 29 | 21 21 | 0 33 | 3 32 | 2 17 | 13 41 | 0 45 | 7 57 | 1 53 | 2 25 | 12 10 | 23 21 | 23 27 | 20 8 | | n.a. |
| T 18 | 9 42 | 7 31 | 4 51 | 2 42 | 1 41 | 25 11 | 3 4 | 12 52 | 1 30 | 21 21 | 0 33 | 3 35 | 2 17 | 13 41 | 0 45 | 7 58 | 1 53 | 2 26 | 12 10 | 23 21 | 23 26 | 20 6 | | n.a. |
| F 19 | 10 3 | 12 23 | 4 22 | 3 35 | 1 33 | 25 21 | 3 5 | 12 36 | 1 30 | 21 20 | 0 32 | 3 38 | 2 17 | 13 40 | 0 45 | 7 59 | 1 53 | 2 26 | 12 10 | 23 20 | 23 26 | 20 4 | | n.a. |
| S 20 | 10 24 | 16 33 | 3 39 | 4 29 | 1 24 | 25 31 | 3 6 | 12 20 | 1 31 | 21 19 | 0 32 | 3 41 | 2 17 | 13 39 | 0 45 | 7 59 | 1 53 | 2 27 | 12 10 | 23 19 | 23 26 | 20 2 | | n.a. |
| S 21 | 10 45 | 19 50 | 2 45 | 5 24 | 1 15 | 25 40 | 3 8 | 12 4 | 1 31 | 21 19 | 0 32 | 3 44 | 2 17 | 13 39 | 0 45 | 8 0 | 1 53 | 2 27 | 12 10 | 23 19 | 23 26 | 20 1 | | n.a. |
| M22 | 11 6 | 22 4 | 1 45 | 6 20 | 1 6 | 25 49 | 3 8 | 11 48 | 1 31 | 21 18 | 0 32 | 3 47 | 2 17 | 13 38 | 0 45 | 8 1 | 1 53 | 2 28 | 12 10 | 23 18 | 23 26 | 19 59 | | n.a. |
| T 23 | 11 27 | 23 11 | 0 40 | 7 16 | 0 56 | 25 57 | 3 9 | 11 32 | 1 32 | 21 17 | 0 32 | 3 50 | 2 17 | 13 37 | 0 45 | 8 2 | 1 53 | 2 28 | 12 9 | 23 18 | 23 25 | 19 57 | | n.a. |
| W24 | 11 47 | 23 10 | 0s25 | 8 12 | 0 46 | 26 5 | 3 10 | 11 15 | 1 32 | 21 17 | 0 32 | 3 53 | 2 18 | 13 37 | 0 45 | 8 3 | 1 53 | 2 29 | 12 9 | 23 18 | 23 25 | 19 56 | | n.a. |
| T 25 | 12 7 | 22 5 | 1 28 | 9 9 | 0 36 | 26 11 | 3 10 | 10 59 | 1 33 | 21 16 | 0 32 | 3 56 | 2 18 | 13 36 | 0 45 | 8 4 | 1 53 | 2 29 | 12 9 | 23 18 | 23 25 | 19 54 | | n.a. |
| F 26 | 12 27 | 20 2 | 2 27 | 10 5 | 0 26 | 26 18 | 3 11 | 10 43 | 1 33 | 21 15 | 0 32 | 3 59 | 2 18 | 13 35 | 0 45 | 8 4 | 1 53 | 2 30 | 12 9 | 23 19 | 23 25 | 19 52 | | n.a. |
| S 27 | 12 47 | 17 7 | 3 20 | 11 2 | 0 15 | 26 23 | 3 11 | 10 26 | 1 33 | 21 15 | 0 32 | 4 2 | 2 18 | 13 35 | 0 45 | 8 5 | 1 53 | 2 30 | 12 9 | 23 19 | 23 25 | 19 50 | | n.a. |
| S 28 | 13 7 | 13 30 | 4 5 | 11 58 | 0 4 | 26 28 | 3 11 | 10 9 | 1 34 | 21 14 | 0 32 | 4 5 | 2 18 | 13 34 | 0 45 | 8 6 | 1 53 | 2 31 | 12 9 | 23 19 | 23 24 | 19 49 | | n.a. |
| M29 | 13 26 | 9 18 | 4 39 | 12 53 | 0n 6 | 26 32 | 3 11 | 9 53 | 1 34 | 21 13 | 0 32 | 4 7 | 2 18 | 13 34 | 0 45 | 8 7 | 1 53 | 2 31 | 12 9 | 23 18 | 23 24 | 19 47 | | n.a. |
| T 30 | 13n46 | 4n40 | 5s 1 | 13n48 | 0n17 | 26n36 | 3n11 | 9s36 | 1s34 | 21s12 | 0n32 | 4n10 | 2s18 | 13s33 | 0s45 | 8n 8 | 1s53 | 2n32 | 12s 9 | 23s18 | 23s24 | 19n45 | | n.a. |

Julian Day Number = 1687545.5, Delta T = 03h12m12s
Ecliptic obliquity = 23°42'22, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°20'44, Lahiri = - 5°13'44 Julian Calendar 1 Apr. 93 BCE == Greg. Calendar 30 March 093 BCE

The year -92 astronomical counting style corresponds to year 093 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 93 BCE
# geocentric

## MAY 93 BCE (-92) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 14 24 50 | 7♉13'31 | 18♍49 | 7♉48 | 22♊24 | 10♓ 6 | 6°R55 | 15♈56 | 26♒27 | 25♈18 | 7♉ 5 | 19°R37 | 20♐59 | 19♋59 | n.a. | W 1 |
| T 2 | 14 28 46 | 8°10'52 | 1♎45 | 9°59 | 23°19 | 10°50 | 6♐49 | 16° 3 | 26°28 | 25°21 | 7° 6 | 19♐31 | 20°56 | 20° 6 | n.a. | T 2 |
| F 3 | 14 32 43 | 9° 8'13 | 15° 2 | 12°11 | 24°14 | 11°35 | 6°43 | 16°11 | 26°30 | 25°23 | 7° 8 | 19°24 | 20°53 | 20°13 | n.a. | F 3 |
| S 4 | 14 36 39 | 10° 5'32 | 28°40 | 14°22 | 25° 8 | 12°19 | 6°37 | 16°18 | 26°31 | 25°25 | 7° 9 | 19°18 | 20°50 | 20°19 | n.a. | S 4 |
| S 5 | 14 40 36 | 11° 2'50 | 12♏37 | 16°32 | 26° 2 | 13° 4 | 6°31 | 16°26 | 26°33 | 25°27 | 7°11 | 19°13 | 20°47 | 20°26 | n.a. | S 5 |
| M 6 | 14 44 32 | 12° 0'07 | 26°48 | 18°41 | 26°55 | 13°48 | 6°25 | 16°33 | 26°34 | 25°29 | 7°12 | 19°10 | 20°43 | 20°33 | n.a. | M 6 |
| T 7 | 14 48 29 | 12°57'24 | 11♐ 9 | 20°49 | 27°48 | 14°32 | 6°19 | 16°40 | 26°36 | 25°32 | 7°13 | 19° 8 | 20°40 | 20°39 | n.a. | T 7 |
| W 8 | 14 52 26 | 13°54'40 | 25°35 | 22°55 | 28°40 | 15°17 | 6°12 | 16°47 | 26°37 | 25°34 | 7°15 | 19°D 8 | 20°37 | 20°46 | n.a. | W 8 |
| T 9 | 14 56 22 | 14°51'55 | 10♑ 0 | 25° 0 | 29°32 | 16° 1 | 6° 5 | 16°55 | 26°38 | 25°36 | 7°16 | 19° 9 | 20°34 | 20°53 | n.a. | T 9 |
| F 10 | 15 0 19 | 15°49'10 | 24°23 | 27° 3 | 0♋22 | 16°45 | 5°59 | 17° 2 | 26°40 | 25°38 | 7°17 | 19°10 | 20°31 | 20°59 | n.a. | F 10 |
| S 11 | 15 4 15 | 16°46'24 | 8♒38 | 29° 4 | 1°12 | 17°29 | 5°52 | 17° 9 | 26°41 | 25°40 | 7°19 | 19°11 | 20°28 | 21° 6 | n.a. | S 11 |
| S 12 | 15 8 12 | 17°43'38 | 22°45 | 1♊ 3 | 2° 2 | 18°13 | 5°45 | 17°16 | 26°42 | 25°42 | 7°20 | 19°R11 | 20°24 | 21°13 | n.a. | S 12 |
| M13 | 15 12 8 | 18°40'51 | 6♓41 | 3° 0 | 2°50 | 18°57 | 5°38 | 17°23 | 26°43 | 25°44 | 7°21 | 19°10 | 20°21 | 21°19 | n.a. | M13 |
| T 14 | 15 16 5 | 19°38'04 | 20°26 | 4°54 | 3°38 | 19°41 | 5°31 | 17°30 | 26°44 | 25°47 | 7°23 | 19° 8 | 20°18 | 21°26 | n.a. | T 14 |
| W15 | 15 20 1 | 20°35'17 | 3♈59 | 6°47 | 4°25 | 20°25 | 5°24 | 17°37 | 26°45 | 25°49 | 7°24 | 19° 4 | 20°15 | 21°33 | n.a. | W15 |
| T 16 | 15 23 58 | 21°32'29 | 17°19 | 8°37 | 5°11 | 21° 8 | 5°17 | 17°44 | 26°46 | 25°51 | 7°25 | 19° 0 | 20°12 | 21°39 | n.a. | T 16 |
| F 17 | 15 27 55 | 22°29'41 | 0♉24 | 10°24 | 5°57 | 21°52 | 5°10 | 17°51 | 26°47 | 25°53 | 7°27 | 18°56 | 20° 8 | 21°46 | n.a. | F 17 |
| S 18 | 15 31 51 | 23°26'53 | 13°16 | 12°10 | 6°41 | 22°36 | 5° 2 | 17°58 | 26°48 | 25°55 | 7°28 | 18°52 | 20° 5 | 21°53 | n.a. | S 18 |
| S 19 | 15 35 48 | 24°24'04 | 25°53 | 13°52 | 7°25 | 23°19 | 4°55 | 18° 5 | 26°48 | 25°57 | 7°29 | 18°50 | 20° 2 | 21°59 | n.a. | S 19 |
| M20 | 15 39 44 | 25°21'15 | 8♊17 | 15°33 | 8° 8 | 24° 3 | 4°47 | 18°12 | 26°49 | 25°59 | 7°31 | 18°48 | 19°59 | 22° 6 | n.a. | M20 |
| T 21 | 15 43 41 | 26°18'25 | 20°28 | 17°11 | 8°49 | 24°46 | 4°40 | 18°19 | 26°50 | 26° 1 | 7°32 | 18°D48 | 19°56 | 22°13 | n.a. | T 21 |
| W22 | 15 47 37 | 27°15'35 | 2♋29 | 18°46 | 9°30 | 25°29 | 4°32 | 18°25 | 26°51 | 26° 3 | 7°33 | 18°48 | 19°53 | 22°19 | n.a. | W22 |
| T 23 | 15 51 34 | 28°12'44 | 14°23 | 20°19 | 10° 9 | 26°13 | 4°25 | 18°32 | 26°51 | 26° 5 | 7°35 | 18°50 | 19°49 | 22°26 | n.a. | T 23 |
| F 24 | 15 55 30 | 29° 9'53 | 26°13 | 21°50 | 10°48 | 26°56 | 4°17 | 18°38 | 26°52 | 26° 7 | 7°36 | 18°51 | 19°46 | 22°33 | n.a. | F 24 |
| S 25 | 15 59 27 | 0♊ 7'01 | 8♌ 2 | 23°18 | 11°25 | 27°39 | 4°10 | 18°45 | 26°52 | 26° 9 | 7°37 | 18°53 | 19°43 | 22°39 | n.a. | S 25 |
| S 26 | 16 3 24 | 1° 4'09 | 19°56 | 24°44 | 12° 1 | 28°22 | 4° 2 | 18°52 | 26°53 | 26°11 | 7°38 | 18°54 | 19°40 | 22°46 | n.a. | S 26 |
| M27 | 16 7 20 | 2° 1'16 | 1♍59 | 26° 7 | 12°36 | 29° 5 | 3°54 | 18°58 | 26°53 | 26°13 | 7°40 | 18°R54 | 19°37 | 22°53 | n.a. | M27 |
| T 28 | 16 11 17 | 2°58'23 | 14°16 | 27°27 | 13°10 | 29°48 | 3°47 | 19° 4 | 26°54 | 26°15 | 7°41 | 18°54 | 19°33 | 22°59 | n.a. | T 28 |
| W29 | 16 15 13 | 3°55'29 | 26°51 | 28°45 | 13°42 | 0♈30 | 3°39 | 19°11 | 26°54 | 26°16 | 7°42 | 18°53 | 19°30 | 23° 6 | n.a. | W29 |
| T 30 | 16 19 10 | 4°52'35 | 9♎47 | 0♋ 0 | 14°13 | 1°13 | 3°31 | 19°17 | 26°54 | 26°18 | 7°43 | 18°51 | 19°27 | 23°13 | n.a. | T 30 |
| F 31 | 16 23 6 | 5♊49'41 | 23♎ 8 | 1♋12 | 14♋42 | 1♈55 | 3♐24 | 19♈23 | 26♒54 | 26♈20 | 7♉45 | 18♐49 | 19♐24 | 23♋19 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| W 1 | 14n 5 | 0s16 | 5s10 | 14n41 | 0n27 | 26n39 | 3n11 | 9s19 | 1s34 | 21s11 | 0n32 | 4n13 | 2s18 | 13s33 | 0s45 | 8n 8 | 1s53 | 2n32 | 12s 9 | 23s18 | 23s24 | 19n44 | | | n.a. |
| T 2 | 14 23 | 5 19 | 5 3 | 15 34 | 0 37 | 26 42 | 3 10 | 9 2 | 1 35 | 21 10 | 0 32 | 4 16 | 2 18 | 13 32 | 0 45 | 8 9 | 1 53 | 2 33 | 12 9 | 23 17 | 23 24 | 19 42 | | | n.a. |
| F 3 | 14 42 | 10 16 | 4 39 | 16 24 | 0 47 | 26 44 | 3 10 | 8 46 | 1 35 | 21 9 | 0 31 | 4 19 | 2 18 | 13 32 | 0 45 | 8 10 | 1 53 | 2 33 | 12 9 | 23 17 | 23 23 | 19 40 | | | n.a. |
| S 4 | 15 0 | 14 51 | 4 0 | 17 14 | 0 57 | 26 45 | 3 9 | 8 29 | 1 35 | 21 8 | 0 31 | 4 22 | 2 18 | 13 31 | 0 45 | 8 11 | 1 53 | 2 34 | 12 9 | 23 16 | 23 23 | 19 38 | | | n.a. |
| S 5 | 15 18 | 18 44 | 3 6 | 18 1 | 1 6 | 26 46 | 3 8 | 8 12 | 1 36 | 21 8 | 0 31 | 4 24 | 2 18 | 13 31 | 0 45 | 8 12 | 1 53 | 2 34 | 12 9 | 23 16 | 23 23 | 19 37 | | | n.a. |
| M 6 | 15 36 | 21 35 | 1 59 | 18 46 | 1 14 | 26 47 | 3 6 | 7 55 | 1 36 | 21 7 | 0 31 | 4 27 | 2 18 | 13 30 | 0 45 | 8 12 | 1 53 | 2 35 | 12 9 | 23 15 | 23 23 | 19 35 | | | n.a. |
| T 7 | 15 54 | 23 5 | 0 43 | 19 29 | 1 22 | 26 46 | 3 5 | 7 38 | 1 36 | 21 6 | 0 31 | 4 30 | 2 18 | 13 30 | 0 45 | 8 13 | 1 53 | 2 35 | 12 9 | 23 15 | 23 22 | 19 33 | | | n.a. |
| W 8 | 16 11 | 23 3 | 0n35 | 20 9 | 1 30 | 26 45 | 3 4 | 7 21 | 1 36 | 21 5 | 0 31 | 4 33 | 2 18 | 13 29 | 0 45 | 8 14 | 1 53 | 2 35 | 12 9 | 23 15 | 23 22 | 19 31 | | | n.a. |
| T 9 | 16 29 | 21 28 | 1 52 | 20 47 | 1 37 | 26 44 | 3 2 | 7 3 | 1 37 | 21 3 | 0 31 | 4 35 | 2 19 | 13 29 | 0 45 | 8 15 | 1 53 | 2 36 | 12 9 | 23 15 | 23 22 | 19 30 | | | n.a. |
| F 10 | 16 45 | 18 31 | 3 1 | 21 23 | 1 43 | 26 42 | 3 0 | 6 46 | 1 37 | 21 2 | 0 31 | 4 38 | 2 19 | 13 29 | 0 45 | 8 16 | 1 53 | 2 36 | 12 9 | 23 16 | 23 22 | 19 28 | | | n.a. |
| S 11 | 17 2 | 14 28 | 3 58 | 21 56 | 1 48 | 26 40 | 2 58 | 6 29 | 1 37 | 21 1 | 0 31 | 4 41 | 2 19 | 13 28 | 0 45 | 8 16 | 1 53 | 2 37 | 12 9 | 23 16 | 23 21 | 19 26 | | | n.a. |
| S 12 | 17 18 | 9 40 | 4 40 | 22 26 | 1 53 | 26 37 | 2 55 | 6 12 | 1 37 | 21 0 | 0 31 | 4 43 | 2 19 | 13 28 | 0 45 | 8 17 | 1 53 | 2 37 | 12 9 | 23 16 | 23 21 | 19 24 | | | n.a. |
| M13 | 17 35 | 4 26 | 5 6 | 22 54 | 1 57 | 26 33 | 2 53 | 5 55 | 1 37 | 20 59 | 0 30 | 4 46 | 2 19 | 13 27 | 0 45 | 8 18 | 1 53 | 2 37 | 12 9 | 23 16 | 23 21 | 19 22 | | | n.a. |
| T 14 | 17 50 | 0n57 | 5 13 | 23 20 | 2 1 | 26 29 | 2 50 | 5 37 | 1 38 | 20 58 | 0 30 | 4 48 | 2 19 | 13 27 | 0 45 | 8 19 | 1 53 | 2 38 | 12 9 | 23 15 | 23 21 | 19 21 | | | n.a. |
| W15 | 18 6 | 6 13 | 5 3 | 23 42 | 2 3 | 26 25 | 2 47 | 5 20 | 1 38 | 20 57 | 0 30 | 4 51 | 2 19 | 13 27 | 0 46 | 8 19 | 1 54 | 2 38 | 12 9 | 23 15 | 23 21 | 19 19 | | | n.a. |
| T 16 | 18 21 | 11 6 | 4 36 | 24 3 | 2 5 | 26 20 | 2 44 | 5 3 | 1 38 | 20 56 | 0 30 | 4 54 | 2 19 | 13 27 | 0 46 | 8 20 | 1 54 | 2 39 | 12 9 | 23 15 | 23 20 | 19 17 | | | n.a. |
| F 17 | 18 36 | 15 24 | 3 55 | 24 21 | 2 7 | 26 14 | 2 40 | 4 46 | 1 38 | 20 54 | 0 30 | 4 56 | 2 19 | 13 26 | 0 46 | 8 21 | 1 54 | 2 39 | 12 9 | 23 14 | 23 20 | 19 15 | | | n.a. |
| S 18 | 18 51 | 18 54 | 3 3 | 24 36 | 2 7 | 26 9 | 2 37 | 4 28 | 1 38 | 20 53 | 0 30 | 4 59 | 2 19 | 13 26 | 0 46 | 8 21 | 1 54 | 2 39 | 12 9 | 23 14 | 23 20 | 19 14 | | | n.a. |
| S 19 | 19 5 | 21 26 | 2 3 | 24 49 | 2 7 | 26 2 | 2 33 | 4 11 | 1 38 | 20 52 | 0 30 | 5 1 | 2 20 | 13 26 | 0 46 | 8 22 | 1 54 | 2 40 | 12 9 | 23 14 | 23 20 | 19 12 | | | n.a. |
| M20 | 19 19 | 22 53 | 0 58 | 25 0 | 2 6 | 25 55 | 2 29 | 3 54 | 1 39 | 20 51 | 0 30 | 5 4 | 2 20 | 13 26 | 0 46 | 8 23 | 1 54 | 2 40 | 12 9 | 23 14 | 23 19 | 19 10 | | | n.a. |
| T 21 | 19 33 | 23 12 | 0s 9 | 25 9 | 2 4 | 25 48 | 2 24 | 3 36 | 1 39 | 20 49 | 0 29 | 5 6 | 2 20 | 13 25 | 0 46 | 8 24 | 1 54 | 2 41 | 12 9 | 23 14 | 23 19 | 19 8 | | | n.a. |
| W22 | 19 46 | 22 26 | 1 15 | 25 15 | 2 2 | 25 41 | 2 19 | 3 19 | 1 39 | 20 48 | 0 29 | 5 9 | 2 20 | 13 25 | 0 46 | 8 24 | 1 54 | 2 41 | 12 9 | 23 14 | 23 19 | 19 6 | | | n.a. |
| T 23 | 19 59 | 20 39 | 2 17 | 25 20 | 1 59 | 25 33 | 2 14 | 3 2 | 1 39 | 20 47 | 0 29 | 5 11 | 2 20 | 13 25 | 0 46 | 8 25 | 1 54 | 2 41 | 12 9 | 23 14 | 23 19 | 19 4 | | | n.a. |
| F 24 | 20 12 | 18 0 | 3 12 | 25 22 | 1 56 | 25 24 | 2 9 | 2 45 | 1 39 | 20 46 | 0 29 | 5 13 | 2 20 | 13 25 | 0 46 | 8 26 | 1 54 | 2 42 | 12 9 | 23 14 | 23 18 | 19 3 | | | n.a. |
| S 25 | 20 24 | 14 36 | 4 0 | 25 23 | 1 51 | 25 16 | 2 4 | 2 27 | 1 39 | 20 44 | 0 29 | 5 16 | 2 20 | 13 25 | 0 46 | 8 26 | 1 54 | 2 42 | 12 9 | 23 14 | 23 18 | 19 1 | | | n.a. |
| S 26 | 20 36 | 10 37 | 4 37 | 25 22 | 1 46 | 25 7 | 1 58 | 2 10 | 1 39 | 20 43 | 0 29 | 5 18 | 2 20 | 13 25 | 0 46 | 8 27 | 1 54 | 2 42 | 12 9 | 23 14 | 23 18 | 18 59 | | | n.a. |
| M27 | 20 48 | 6 11 | 5 3 | 25 20 | 1 41 | 24 57 | 1 52 | 1 53 | 1 39 | 20 42 | 0 29 | 5 21 | 2 21 | 13 24 | 0 46 | 8 28 | 1 54 | 2 43 | 12 9 | 23 14 | 23 18 | 18 57 | | | n.a. |
| T 28 | 20 59 | 1 25 | 5 15 | 25 15 | 1 35 | 24 48 | 1 46 | 1 36 | 1 39 | 20 40 | 0 29 | 5 23 | 2 21 | 13 24 | 0 46 | 8 28 | 1 54 | 2 43 | 12 10 | 23 14 | 23 17 | 18 55 | | | n.a. |
| W29 | 21 10 | 3s31 | 5 13 | 25 10 | 1 28 | 24 38 | 1 39 | 1 19 | 1 39 | 20 39 | 0 28 | 5 25 | 2 21 | 13 24 | 0 46 | 8 29 | 1 54 | 2 43 | 12 10 | 23 14 | 23 17 | 18 53 | | | n.a. |
| T 30 | 21 21 | 8 26 | 4 56 | 25 3 | 1 20 | 24 28 | 1 32 | 1 2 | 1 39 | 20 38 | 0 28 | 5 27 | 2 21 | 13 24 | 0 46 | 8 30 | 1 54 | 2 44 | 12 10 | 23 14 | 23 17 | 18 52 | | | n.a. |
| F 31 | 21n31 | 13s 8 | 4s22 | 24n55 | 1n13 | 24n17 | 1n25 | 0s45 | 1s39 | 20s36 | 0n28 | 5n30 | 2s21 | 13s24 | 0s46 | 8n30 | 1s54 | 2n44 | 12s10 | 23s14 | 23s17 | 18n50 | | | n.a. |

Julian Day Number = 1687575.5, Delta T = 03h12m11s
Ecliptic obliquity = 23°42'22, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°20'40, Lahiri = - 5°13'39 Julian Calendar 1 May 93 BCE == Greg. Calendar 29 Apr. 093 BCE

The year -92 astronomical counting style corresponds to year 093 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 93 BCE
# geocentric

## JUNE 93 BCE (-92) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 27 3 | 6♊46'46 | 6♏53 | 2♋22 | 15♋10 | 2♈38 | 3°R16 | 19♈29 | 26♒55 | 26♈22 | 7♉46 | 18°R48 | 19♐21 | 23♋26 | n.a. | S 1 |
| S 2 | 16 30 59 | 7°43'51 | 21° 2 | 3°29 | 15°36 | 3°20 | 3♐ 8 | 19°35 | 26°55 | 26°24 | 7°47 | 18♐47 | 19°18 | 23°33 | n.a. | S 2 |
| M 3 | 16 34 56 | 8°40'57 | 5♐30 | 4°33 | 16° 1 | 4° 3 | 3° 1 | 19°41 | 26°55 | 26°25 | 7°48 | 18°46 | 19°14 | 23°39 | n.a. | M 3 |
| T 4 | 16 38 53 | 9°38'02 | 20°13 | 5°33 | 16°24 | 4°45 | 2°53 | 19°47 | 26°R55 | 26°27 | 7°49 | 18°D46 | 19°11 | 23°46 | n.a. | T 4 |
| W 5 | 16 42 49 | 10°35'07 | 5♑ 4 | 6°31 | 16°45 | 5°27 | 2°46 | 19°53 | 26°55 | 26°29 | 7°51 | 18°46 | 19° 8 | 23°53 | n.a. | W 5 |
| T 6 | 16 46 46 | 11°32'13 | 19°54 | 7°25 | 17° 4 | 6° 9 | 2°38 | 19°59 | 26°55 | 26°31 | 7°52 | 18°46 | 19° 5 | 23°59 | n.a. | T 6 |
| F 7 | 16 50 42 | 12°29'19 | 4♒38 | 8°16 | 17°22 | 6°51 | 2°31 | 20° 5 | 26°55 | 26°32 | 7°53 | 18°47 | 19° 2 | 24° 6 | n.a. | F 7 |
| S 8 | 16 54 39 | 13°26'25 | 19° 9 | 9° 4 | 17°37 | 7°33 | 2°23 | 20°11 | 26°55 | 26°34 | 7°54 | 18°48 | 18°59 | 24°13 | n.a. | S 8 |
| S 9 | 16 58 35 | 14°23'32 | 3♓23 | 9°48 | 17°51 | 8°15 | 2°16 | 20°16 | 26°54 | 26°36 | 7°55 | 18°48 | 18°55 | 24°19 | n.a. | S 9 |
| M10 | 17 2 32 | 15°20'40 | 17°20 | 10°28 | 18° 3 | 8°57 | 2° 8 | 20°22 | 26°54 | 26°37 | 7°56 | 18°R48 | 18°52 | 24°26 | n.a. | M10 |
| T 11 | 17 6 29 | 16°17'48 | 0♈57 | 11° 5 | 18°12 | 9°38 | 2° 1 | 20°28 | 26°54 | 26°39 | 7°58 | 18°48 | 18°49 | 24°33 | n.a. | T 11 |
| W12 | 17 10 25 | 17°14'56 | 14°15 | 11°37 | 18°20 | 10°20 | 1°54 | 20°33 | 26°53 | 26°41 | 7°59 | 18°48 | 18°46 | 24°39 | n.a. | W12 |
| T 13 | 17 14 22 | 18°12'05 | 27°17 | 12° 5 | 18°25 | 11° 1 | 1°47 | 20°38 | 26°53 | 26°42 | 8° 0 | 18°48 | 18°43 | 24°46 | n.a. | T 13 |
| F 14 | 17 18 18 | 19° 9'15 | 10♉ 2 | 12°29 | 18°28 | 11°42 | 1°40 | 20°44 | 26°53 | 26°44 | 8° 1 | 18°D48 | 18°39 | 24°53 | n.a. | F 14 |
| S 15 | 17 22 15 | 20° 6'26 | 22°34 | 12°49 | 18°R29 | 12°24 | 1°33 | 20°49 | 26°52 | 26°45 | 8° 2 | 18°48 | 18°36 | 24°59 | n.a. | S 15 |
| S 16 | 17 26 11 | 21° 3'37 | 4♊54 | 13° 4 | 18°27 | 13° 5 | 1°26 | 20°54 | 26°52 | 26°47 | 8° 3 | 18°48 | 18°33 | 25° 6 | n.a. | S 16 |
| M17 | 17 30 8 | 22° 0'48 | 17° 3 | 13°14 | 18°23 | 13°46 | 1°19 | 20°59 | 26°51 | 26°48 | 8° 4 | 18°R48 | 18°30 | 25°13 | n.a. | M17 |
| T 18 | 17 34 4 | 22°58'01 | 29° 4 | 13°20 | 18°17 | 14°27 | 1°12 | 21° 4 | 26°50 | 26°50 | 8° 5 | 18°48 | 18°27 | 25°20 | n.a. | T 18 |
| W19 | 17 38 1 | 23°55'13 | 10♋59 | 13°R21 | 18° 9 | 15° 7 | 1° 6 | 21° 9 | 26°50 | 26°51 | 8° 6 | 18°47 | 18°24 | 25°26 | n.a. | W19 |
| T 20 | 17 41 58 | 24°52'27 | 22°49 | 13°17 | 17°58 | 15°48 | 0°59 | 21°14 | 26°49 | 26°52 | 8° 7 | 18°47 | 18°20 | 25°33 | n.a. | T 20 |
| F 21 | 17 45 54 | 25°49'40 | 4♌38 | 13° 8 | 17°45 | 16°29 | 0°53 | 21°19 | 26°48 | 26°54 | 8° 8 | 18°46 | 18°17 | 25°40 | n.a. | F 21 |
| S 22 | 17 49 51 | 26°46'54 | 16°28 | 12°54 | 17°29 | 17° 9 | 0°47 | 21°24 | 26°47 | 26°55 | 8° 9 | 18°45 | 18°14 | 25°46 | n.a. | S 22 |
| S 23 | 17 53 47 | 27°44'09 | 28°22 | 12°35 | 17°11 | 17°49 | 0°41 | 21°28 | 26°46 | 26°56 | 8°10 | 18°44 | 18°11 | 25°53 | n.a. | S 23 |
| M24 | 17 57 44 | 28°41'24 | 10♍25 | 12°12 | 16°51 | 18°29 | 0°35 | 21°33 | 26°46 | 26°58 | 8°11 | 18°43 | 18° 8 | 26° 0 | n.a. | M24 |
| T 25 | 18 1 40 | 29°38'39 | 22°40 | 11°44 | 16°28 | 19°10 | 0°29 | 21°37 | 26°45 | 26°59 | 8°12 | 18°43 | 18° 5 | 26° 6 | n.a. | T 25 |
| W26 | 18 5 37 | 0♋35'55 | 5♎12 | 11°12 | 16° 4 | 19°50 | 0°23 | 21°42 | 26°44 | 27° 0 | 8°13 | 18°D42 | 18° 1 | 26°13 | n.a. | W26 |
| T 27 | 18 9 33 | 1°33'12 | 18° 4 | 10°37 | 15°37 | 20°29 | 0°18 | 21°46 | 26°43 | 27° 1 | 8°14 | 18°43 | 17°58 | 26°20 | n.a. | T 27 |
| F 28 | 18 13 30 | 2°30'29 | 1♏20 | 9°58 | 15° 9 | 21° 9 | 0°12 | 21°50 | 26°42 | 27° 2 | 8°14 | 18°44 | 17°55 | 26°26 | n.a. | F 28 |
| S 29 | 18 17 27 | 3°27'47 | 15° 3 | 9°17 | 14°38 | 21°49 | 0° 7 | 21°54 | 26°40 | 27° 4 | 8°15 | 18°45 | 17°52 | 26°33 | n.a. | S 29 |
| S 30 | 18 21 23 | 4♋25'06 | 29♏12 | 8♋34 | 14♋ 7 | 22♈28 | 0♐ 2 | 21♈58 | 26♒39 | 27♈ 5 | 8♉16 | 18♐46 | 17♐49 | 26♋40 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21n41 | 17s17 | 3s32 | 24n45 | 1n 4 | 24n 6 | 1n17 | 0s27 | 1s39 | 20s35 | 0n28 | 5n32 | 2s21 | 13s24 | 0s46 | 8n31 | 1s54 | 2n44 | 12s10 | 23s14 | 23s16 | 18n48 | | n.a. |
| S 2 | 21 51 | 20 35 | 2 28 | 24 34 | 0 55 | 23 56 | 1 9 | 0 10 | 1 39 | 20 34 | 0 28 | 5 34 | 2 22 | 13 24 | 0 46 | 8 32 | 1 54 | 2 44 | 12 10 | 23 14 | 23 16 | 18 46 | | n.a. |
| M 3 | 22 0 | 22 39 | 1 13 | 24 23 | 0 45 | 23 44 | 1 1 | 0n 7 | 1 39 | 20 33 | 0 28 | 5 36 | 2 22 | 13 24 | 0 46 | 8 32 | 1 54 | 2 45 | 12 10 | 23 13 | 23 16 | 18 44 | | n.a. |
| T 4 | 22 9 | 23 12 | 0n 8 | 24 10 | 0 35 | 23 33 | 0 52 | 0 24 | 1 39 | 20 31 | 0 27 | 5 38 | 2 22 | 13 24 | 0 46 | 8 33 | 1 54 | 2 45 | 12 10 | 23 13 | 23 16 | 18 42 | | n.a. |
| W 5 | 22 17 | 22 7 | 1 29 | 23 57 | 0 24 | 23 22 | 0 43 | 0 40 | 1 39 | 20 30 | 0 27 | 5 40 | 2 22 | 13 24 | 0 46 | 8 33 | 1 54 | 2 45 | 12 10 | 23 13 | 23 15 | 18 41 | | n.a. |
| T 6 | 22 25 | 19 30 | 2 44 | 23 43 | 0 13 | 23 10 | 0 34 | 0 57 | 1 39 | 20 29 | 0 27 | 5 42 | 2 22 | 13 24 | 0 46 | 8 34 | 1 54 | 2 46 | 12 10 | 23 14 | 23 15 | 18 39 | | n.a. |
| F 7 | 22 33 | 15 38 | 3 48 | 23 28 | 0 2 | 22 58 | 0 24 | 1 14 | 1 39 | 20 27 | 0 27 | 5 44 | 2 22 | 13 24 | 0 46 | 8 34 | 1 54 | 2 46 | 12 10 | 23 14 | 23 15 | 18 37 | | n.a. |
| S 8 | 22 40 | 10 53 | 4 36 | 23 13 | 0s11 | 22 46 | 0 14 | 1 31 | 1 39 | 20 26 | 0 27 | 5 46 | 2 23 | 13 24 | 0 46 | 8 35 | 1 54 | 2 46 | 12 11 | 23 14 | 23 15 | 18 35 | | n.a. |
| S 9 | 22 47 | 5 37 | 5 6 | 22 57 | 0 23 | 22 34 | 0 4 | 1 48 | 1 39 | 20 25 | 0 27 | 5 48 | 2 23 | 13 25 | 0 47 | 8 36 | 1 54 | 2 46 | 12 11 | 23 14 | 23 14 | 18 33 | | n.a. |
| M10 | 22 53 | 0 12 | 5 17 | 22 41 | 0 36 | 22 22 | 0s 6 | 2 4 | 1 39 | 20 23 | 0 26 | 5 50 | 2 23 | 13 25 | 0 47 | 8 36 | 1 54 | 2 47 | 12 11 | 23 14 | 23 14 | 18 31 | | n.a. |
| T 11 | 23 0 | 5n 7 | 5 10 | 22 25 | 0 49 | 22 10 | 0 17 | 2 21 | 1 39 | 20 22 | 0 26 | 5 52 | 2 23 | 13 25 | 0 47 | 8 37 | 1 54 | 2 47 | 12 11 | 23 14 | 23 14 | 18 29 | | n.a. |
| W12 | 23 5 | 10 5 | 4 47 | 22 9 | 1 3 | 21 58 | 0 29 | 2 37 | 1 39 | 20 21 | 0 26 | 5 54 | 2 23 | 13 25 | 0 47 | 8 37 | 1 55 | 2 47 | 12 11 | 23 14 | 23 13 | 18 27 | | n.a. |
| T 13 | 23 11 | 14 29 | 4 9 | 21 52 | 1 17 | 21 45 | 0 40 | 2 54 | 1 39 | 20 19 | 0 26 | 5 56 | 2 23 | 13 25 | 0 47 | 8 38 | 1 55 | 2 47 | 12 11 | 23 14 | 23 13 | 18 26 | | n.a. |
| F 14 | 23 15 | 18 8 | 3 19 | 21 36 | 1 31 | 21 33 | 0 52 | 3 10 | 1 39 | 20 18 | 0 26 | 5 58 | 2 24 | 13 25 | 0 47 | 8 38 | 1 55 | 2 47 | 12 11 | 23 14 | 23 13 | 18 24 | | n.a. |
| S 15 | 23 20 | 20 53 | 2 21 | 21 20 | 1 46 | 21 21 | 1 5 | 3 27 | 1 38 | 20 17 | 0 26 | 6 0 | 2 24 | 13 26 | 0 47 | 8 39 | 1 55 | 2 48 | 12 11 | 23 14 | 23 13 | 18 22 | | n.a. |
| S 16 | 23 24 | 22 36 | 1 16 | 21 4 | 2 0 | 21 8 | 1 17 | 3 43 | 1 38 | 20 16 | 0 25 | 6 1 | 2 24 | 13 26 | 0 47 | 8 39 | 1 55 | 2 48 | 12 12 | 23 14 | 23 12 | 18 20 | | n.a. |
| M17 | 23 28 | 23 14 | 0 10 | 20 48 | 2 15 | 20 56 | 1 30 | 3 59 | 1 38 | 20 14 | 0 25 | 6 3 | 2 24 | 13 26 | 0 47 | 8 40 | 1 55 | 2 48 | 12 12 | 23 14 | 23 12 | 18 18 | | n.a. |
| T 18 | 23 31 | 22 45 | 0s57 | 20 33 | 2 29 | 20 44 | 1 43 | 4 15 | 1 38 | 20 13 | 0 25 | 6 5 | 2 24 | 13 26 | 0 47 | 8 40 | 1 55 | 2 48 | 12 12 | 23 14 | 23 12 | 18 16 | | n.a. |
| W19 | 23 34 | 21 15 | 2 0 | 20 19 | 2 44 | 20 32 | 1 57 | 4 31 | 1 38 | 20 12 | 0 25 | 6 7 | 2 25 | 13 26 | 0 47 | 8 41 | 1 55 | 2 48 | 12 12 | 23 14 | 23 12 | 18 14 | | n.a. |
| T 20 | 23 36 | 18 50 | 2 58 | 20 5 | 2 58 | 20 20 | 2 10 | 4 47 | 1 38 | 20 11 | 0 25 | 6 8 | 2 25 | 13 27 | 0 47 | 8 41 | 1 55 | 2 49 | 12 12 | 23 14 | 23 11 | 18 12 | | n.a. |
| F 21 | 23 38 | 15 38 | 3 48 | 19 52 | 3 12 | 20 8 | 2 24 | 5 3 | 1 37 | 20 10 | 0 25 | 6 10 | 2 25 | 13 27 | 0 47 | 8 42 | 1 55 | 2 49 | 12 12 | 23 13 | 23 11 | 18 10 | | n.a. |
| S 22 | 23 40 | 11 49 | 4 28 | 19 40 | 3 25 | 19 56 | 2 38 | 5 19 | 1 37 | 20 9 | 0 24 | 6 11 | 2 25 | 13 27 | 0 47 | 8 42 | 1 55 | 2 49 | 12 12 | 23 13 | 23 11 | 18 8 | | n.a. |
| S 23 | 23 41 | 7 32 | 4 57 | 19 29 | 3 38 | 19 44 | 2 52 | 5 35 | 1 37 | 20 8 | 0 24 | 6 13 | 2 26 | 13 28 | 0 47 | 8 42 | 1 55 | 2 49 | 12 13 | 23 13 | 23 10 | 18 7 | | n.a. |
| M24 | 23 42 | 2 55 | 5 14 | 19 19 | 3 50 | 19 33 | 3 7 | 5 50 | 1 37 | 20 6 | 0 24 | 6 15 | 2 26 | 13 28 | 0 47 | 8 43 | 1 55 | 2 49 | 12 13 | 23 13 | 23 10 | 18 5 | | n.a. |
| T 25 | 23 42 | 1s53 | 5 16 | 19 10 | 4 2 | 19 21 | 3 21 | 6 6 | 1 36 | 20 5 | 0 24 | 6 16 | 2 26 | 13 28 | 0 47 | 8 43 | 1 55 | 2 49 | 12 13 | 23 13 | 23 10 | 18 3 | | n.a. |
| W26 | 23 42 | 6 44 | 5 4 | 19 2 | 4 12 | 19 10 | 3 35 | 6 21 | 1 36 | 20 4 | 0 24 | 6 17 | 2 26 | 13 29 | 0 47 | 8 44 | 1 55 | 2 49 | 12 13 | 23 13 | 23 10 | 18 1 | | n.a. |
| T 27 | 23 42 | 11 25 | 4 36 | 18 56 | 4 21 | 18 59 | 3 49 | 6 37 | 1 36 | 20 3 | 0 23 | 6 19 | 2 26 | 13 29 | 0 47 | 8 44 | 1 55 | 2 50 | 12 13 | 23 13 | 23 9 | 17 59 | | n.a. |
| F 28 | 23 41 | 15 43 | 3 53 | 18 51 | 4 29 | 18 49 | 4 3 | 6 52 | 1 36 | 20 2 | 0 23 | 6 20 | 2 27 | 13 30 | 0 47 | 8 44 | 1 55 | 2 50 | 12 13 | 23 13 | 23 9 | 17 57 | | n.a. |
| S 29 | 23 40 | 19 20 | 2 56 | 18 48 | 4 35 | 18 38 | 4 17 | 7 7 | 1 35 | 20 1 | 0 23 | 6 22 | 2 27 | 13 30 | 0 47 | 8 45 | 1 55 | 2 50 | 12 14 | 23 13 | 23 9 | 17 55 | | n.a. |
| S 30 | 23n38 | 21s56 | 1s46 | 18n46 | 4s40 | 18n28 | 4s30 | 7n22 | 1s35 | 20s 1 | 0n23 | 6n23 | 2s27 | 13s30 | 0s47 | 8n45 | 1s55 | 2n50 | 12s14 | 23s13 | 23s 8 | 17n53 | | n.a. |

Julian Day Number = 1687606.5, Delta T = 03h12m10s
Ecliptic obliquity = 23°42'21, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°20'36, Lahiri = - 5°13'35 Julian Calendar 1 June 93 BCE == Greg. Calendar 30 May 093 BCE

The year -92 astronomical counting style corresponds to year 093 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 93 BCE
# geocentric

## JULY 93 BCE (-92) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 18 25 20 | 5♋22'25 | 13♐45 | 7°R50 | 13°R33 | 23♈ 7 | 29°R57 | 22♈ 2 | 26°R38 | 27♈ 6 | 8♉17 | 18°R47 | 17♐45 | 26♋46 | n.a. | M 1 |
| T 2 | 18 29 16 | 6°19'45 | 28°39 | 7♋ 5 | 12♋59 | 23°47 | 29♏52 | 22° 6 | 26♒37 | 27° 7 | 8°18 | 18♐46 | 17°42 | 26°53 | n.a. | T 2 |
| W 3 | 18 33 13 | 7°17'06 | 13♑45 | 6°20 | 12°23 | 24°26 | 29°47 | 22°10 | 26°36 | 27° 8 | 8°19 | 18°45 | 17°39 | 27° 0 | n.a. | W 3 |
| T 4 | 18 37 9 | 8°14'28 | 28°55 | 5°37 | 11°47 | 25° 5 | 29°42 | 22°14 | 26°34 | 27° 9 | 8°19 | 18°44 | 17°36 | 27° 6 | n.a. | T 4 |
| F 5 | 18 41 6 | 9°11'52 | 14♒ 0 | 4°55 | 11°10 | 25°43 | 29°38 | 22°17 | 26°33 | 27°10 | 8°20 | 18°41 | 17°33 | 27°13 | n.a. | F 5 |
| S 6 | 18 45 3 | 10° 9'16 | 28°49 | 4°16 | 10°33 | 26°22 | 29°34 | 22°21 | 26°31 | 27°11 | 8°21 | 18°38 | 17°30 | 27°20 | n.a. | S 6 |
| S 7 | 18 48 59 | 11° 6'42 | 13♓18 | 3°41 | 9°56 | 27° 1 | 29°30 | 22°24 | 26°30 | 27°12 | 8°22 | 18°36 | 17°26 | 27°26 | n.a. | S 7 |
| M 8 | 18 52 56 | 12° 4'09 | 27°22 | 3°10 | 9°19 | 27°39 | 29°26 | 22°28 | 26°28 | 27°13 | 8°22 | 18°34 | 17°23 | 27°33 | n.a. | M 8 |
| T 9 | 18 56 52 | 13° 1'38 | 11♈ 1 | 2°44 | 8°42 | 28°17 | 29°22 | 22°31 | 26°27 | 27°13 | 8°23 | 18°D34 | 17°20 | 27°40 | n.a. | T 9 |
| W10 | 19 0 49 | 13°59'08 | 24°15 | 2°24 | 8° 6 | 28°56 | 29°18 | 22°34 | 26°25 | 27°14 | 8°24 | 18°34 | 17°17 | 27°46 | n.a. | W10 |
| T 11 | 19 4 45 | 14°56'40 | 7♉ 7 | 2° 9 | 7°31 | 29°34 | 29°15 | 22°37 | 26°24 | 27°15 | 8°24 | 18°35 | 17°14 | 27°53 | n.a. | T 11 |
| F 12 | 19 8 42 | 15°54'13 | 19°40 | 2° 1 | 6°57 | 0♉11 | 29°12 | 22°40 | 26°22 | 27°16 | 8°25 | 18°37 | 17°11 | 28° 0 | n.a. | F 12 |
| S 13 | 19 12 38 | 16°51'48 | 1♊58 | 1°D59 | 6°24 | 0°49 | 29° 9 | 22°43 | 26°21 | 27°16 | 8°26 | 18°38 | 17° 7 | 28° 6 | n.a. | S 13 |
| S 14 | 19 16 35 | 17°49'24 | 14° 5 | 2° 4 | 5°52 | 1°27 | 29° 6 | 22°46 | 26°19 | 27°17 | 8°26 | 18°R39 | 17° 4 | 28°13 | n.a. | S 14 |
| M15 | 19 20 32 | 18°47'02 | 26° 3 | 2°17 | 5°23 | 2° 4 | 29° 3 | 22°48 | 26°17 | 27°18 | 8°27 | 18°39 | 17° 1 | 28°20 | n.a. | M15 |
| T 16 | 19 24 28 | 19°44'41 | 7♋56 | 2°36 | 4°55 | 2°41 | 29° 0 | 22°51 | 26°15 | 27°18 | 8°27 | 18°38 | 16°58 | 28°26 | n.a. | T 16 |
| W17 | 19 28 25 | 20°42'22 | 19°46 | 3° 3 | 4°29 | 3°18 | 28°58 | 22°53 | 26°14 | 27°19 | 8°28 | 18°34 | 16°55 | 28°33 | n.a. | W17 |
| T 18 | 19 32 21 | 21°40'04 | 1♌35 | 3°37 | 4° 5 | 3°55 | 28°56 | 22°56 | 26°12 | 27°20 | 8°28 | 18°30 | 16°51 | 28°40 | n.a. | T 18 |
| F 19 | 19 36 18 | 22°37'47 | 13°25 | 4°18 | 3°43 | 4°32 | 28°54 | 22°58 | 26°10 | 27°20 | 8°29 | 18°24 | 16°48 | 28°47 | n.a. | F 19 |
| S 20 | 19 40 14 | 23°35'32 | 25°18 | 5° 6 | 3°23 | 5° 8 | 28°52 | 23° 0 | 26° 8 | 27°21 | 8°29 | 18°18 | 16°45 | 28°53 | n.a. | S 20 |
| S 21 | 19 44 11 | 24°33'18 | 7♍16 | 6° 1 | 3° 5 | 5°45 | 28°50 | 23° 2 | 26° 6 | 27°21 | 8°30 | 18°11 | 16°42 | 29° 0 | n.a. | S 21 |
| M22 | 19 48 7 | 25°31'06 | 19°22 | 7° 2 | 2°50 | 6°21 | 28°49 | 23° 4 | 26° 4 | 27°21 | 8°30 | 18° 6 | 16°39 | 29° 7 | n.a. | M22 |
| T 23 | 19 52 4 | 26°28'55 | 1♎38 | 8°10 | 2°38 | 6°57 | 28°48 | 23° 6 | 26° 2 | 27°22 | 8°31 | 18° 2 | 16°36 | 29°13 | n.a. | T 23 |
| W24 | 19 56 1 | 27°26'45 | 14° 9 | 9°24 | 2°27 | 7°33 | 28°47 | 23° 8 | 26° 0 | 27°22 | 8°31 | 17°59 | 16°32 | 29°20 | n.a. | W24 |
| T 25 | 19 59 57 | 28°24'36 | 26°57 | 10°44 | 2°19 | 8° 8 | 28°46 | 23° 9 | 25°58 | 27°23 | 8°31 | 17°D58 | 16°29 | 29°27 | n.a. | T 25 |
| F 26 | 20 3 54 | 29°22'29 | 10♏ 6 | 12° 9 | 2°14 | 8°44 | 28°45 | 23°11 | 25°56 | 27°23 | 8°32 | 17°58 | 16°26 | 29°33 | n.a. | F 26 |
| S 27 | 20 7 50 | 0♌20'23 | 23°40 | 13°39 | 2°10 | 9°19 | 28°45 | 23°12 | 25°54 | 27°23 | 8°32 | 18° 0 | 16°23 | 29°40 | n.a. | S 27 |
| S 28 | 20 11 47 | 1°18'19 | 7♐39 | 15°14 | 2°D 9 | 9°54 | 28°45 | 23°13 | 25°52 | 27°23 | 8°32 | 18° 1 | 16°20 | 29°47 | n.a. | S 28 |
| M29 | 20 15 43 | 2°16'16 | 22° 5 | 16°53 | 2°11 | 10°29 | 28°D44 | 23°15 | 25°50 | 27°24 | 8°33 | 18°R 1 | 16°17 | 29°53 | n.a. | M29 |
| T 30 | 20 19 40 | 3°14'15 | 6♑55 | 18°35 | 2°14 | 11° 4 | 28°45 | 23°16 | 25°48 | 27°24 | 8°33 | 18° 0 | 16°13 | 0♌ 0 | n.a. | T 30 |
| W31 | 20 23 36 | 4♌12'15 | 22♑ 3 | 20♋21 | 2♋20 | 11♉38 | 28♏45 | 23♈17 | 25♒45 | 27♈24 | 8♉33 | 17♐56 | 16♐10 | 0♌ 7 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| M 1 | 23n36 | 23s10 | 0s28 | 18n45 | 4s43 | 18n18 | 4s44 | 7n37 | 1s35 | 20s 0 | 0n23 | 6n24 | 2s27 | 13s31 | 0s47 | 8n45 | 1s56 | 2n50 | 12s14 | 23s14 | 23s 8 | 17n51 | | | n.a. |
| T 2 | 23 33 | 22 48 | 0n54 | 18 47 | 4 45 | 18 9 | 4 57 | 7 52 | 1 35 | 19 59 | 0 22 | 6 25 | 2 28 | 13 31 | 0 47 | 8 46 | 1 56 | 2 50 | 12 14 | 23 14 | 23 8 | 17 49 | | | n.a. |
| W 3 | 23 30 | 20 46 | 2 14 | 18 49 | 4 44 | 17 59 | 5 9 | 8 7 | 1 34 | 19 58 | 0 22 | 6 27 | 2 28 | 13 32 | 0 47 | 8 46 | 1 56 | 2 50 | 12 14 | 23 13 | 23 7 | 17 47 | | | n.a. |
| T 4 | 23 27 | 17 17 | 3 24 | 18 53 | 4 42 | 17 51 | 5 21 | 8 21 | 1 34 | 19 57 | 0 22 | 6 28 | 2 28 | 13 32 | 0 47 | 8 46 | 1 56 | 2 50 | 12 15 | 23 13 | 23 7 | 17 45 | | | n.a. |
| F 5 | 23 23 | 12 40 | 4 19 | 18 59 | 4 38 | 17 42 | 5 33 | 8 36 | 1 33 | 19 56 | 0 22 | 6 29 | 2 28 | 13 33 | 0 47 | 8 47 | 1 56 | 2 50 | 12 15 | 23 13 | 23 7 | 17 43 | | | n.a. |
| S 6 | 23 19 | 7 23 | 4 56 | 19 6 | 4 33 | 17 34 | 5 44 | 8 50 | 1 33 | 19 56 | 0 22 | 6 30 | 2 28 | 13 33 | 0 47 | 8 47 | 1 56 | 2 50 | 12 15 | 23 13 | 23 7 | 17 41 | | | n.a. |
| S 7 | 23 14 | 1 49 | 5 14 | 19 14 | 4 25 | 17 27 | 5 54 | 9 5 | 1 33 | 19 55 | 0 22 | 6 31 | 2 29 | 13 34 | 0 48 | 8 47 | 1 56 | 2 50 | 12 15 | 23 13 | 23 6 | 17 39 | | | n.a. |
| M 8 | 23 9 | 3n42 | 5 11 | 19 23 | 4 17 | 17 19 | 6 4 | 9 19 | 1 32 | 19 54 | 0 21 | 6 32 | 2 29 | 13 34 | 0 48 | 8 48 | 1 56 | 2 50 | 12 15 | 23 12 | 23 6 | 17 37 | | | n.a. |
| T 9 | 23 4 | 8 52 | 4 51 | 19 34 | 4 6 | 17 13 | 6 13 | 9 33 | 1 32 | 19 54 | 0 21 | 6 33 | 2 29 | 13 35 | 0 48 | 8 48 | 1 56 | 2 50 | 12 16 | 23 12 | 23 6 | 17 35 | | | n.a. |
| W10 | 22 58 | 13 28 | 4 16 | 19 46 | 3 55 | 17 7 | 6 21 | 9 47 | 1 32 | 19 53 | 0 21 | 6 34 | 2 29 | 13 36 | 0 48 | 8 48 | 1 56 | 2 50 | 12 16 | 23 12 | 23 5 | 17 33 | | | n.a. |
| T 11 | 22 51 | 17 19 | 3 29 | 19 59 | 3 42 | 17 1 | 6 29 | 10 1 | 1 31 | 19 53 | 0 21 | 6 35 | 2 30 | 13 36 | 0 48 | 8 48 | 1 56 | 2 50 | 12 16 | 23 13 | 23 5 | 17 32 | | | n.a. |
| F 12 | 22 45 | 20 17 | 2 33 | 20 13 | 3 29 | 16 56 | 6 36 | 10 15 | 1 31 | 19 52 | 0 21 | 6 36 | 2 30 | 13 37 | 0 48 | 8 48 | 1 56 | 2 50 | 12 16 | 23 13 | 23 5 | 17 30 | | | n.a. |
| S 13 | 22 38 | 22 16 | 1 30 | 20 27 | 3 14 | 16 52 | 6 42 | 10 29 | 1 30 | 19 52 | 0 20 | 6 37 | 2 30 | 13 37 | 0 48 | 8 49 | 1 56 | 2 50 | 12 16 | 23 13 | 23 4 | 17 28 | | | n.a. |
| S 14 | 22 30 | 23 10 | 0 25 | 20 42 | 2 59 | 16 48 | 6 47 | 10 42 | 1 30 | 19 51 | 0 20 | 6 37 | 2 30 | 13 38 | 0 48 | 8 49 | 1 56 | 2 50 | 12 17 | 23 13 | 23 4 | 17 26 | | | n.a. |
| M15 | 22 22 | 22 58 | 0s40 | 20 58 | 2 43 | 16 44 | 6 52 | 10 56 | 1 29 | 19 51 | 0 20 | 6 38 | 2 31 | 13 39 | 0 48 | 8 49 | 1 56 | 2 50 | 12 17 | 23 13 | 23 4 | 17 24 | | | n.a. |
| T 16 | 22 14 | 21 44 | 1 44 | 21 14 | 2 27 | 16 42 | 6 55 | 11 9 | 1 29 | 19 50 | 0 20 | 6 39 | 2 31 | 13 39 | 0 48 | 8 49 | 1 56 | 2 50 | 12 17 | 23 13 | 23 4 | 17 22 | | | n.a. |
| W17 | 22 5 | 19 34 | 2 42 | 21 29 | 2 11 | 16 40 | 6 58 | 11 22 | 1 28 | 19 50 | 0 20 | 6 40 | 2 31 | 13 40 | 0 48 | 8 49 | 1 57 | 2 50 | 12 17 | 23 12 | 23 3 | 17 20 | | | n.a. |
| T 18 | 21 56 | 16 34 | 3 33 | 21 45 | 1 54 | 16 38 | 7 1 | 11 35 | 1 28 | 19 50 | 0 19 | 6 40 | 2 31 | 13 40 | 0 48 | 8 49 | 1 57 | 2 50 | 12 17 | 23 12 | 23 3 | 17 18 | | | n.a. |
| F 19 | 21 47 | 12 54 | 4 15 | 22 0 | 1 38 | 16 37 | 7 2 | 11 48 | 1 27 | 19 49 | 0 19 | 6 41 | 2 32 | 13 41 | 0 48 | 8 50 | 1 57 | 2 50 | 12 18 | 23 12 | 23 3 | 17 16 | | | n.a. |
| S 20 | 21 37 | 8 44 | 4 46 | 22 15 | 1 22 | 16 36 | 7 3 | 12 1 | 1 27 | 19 49 | 0 19 | 6 41 | 2 32 | 13 42 | 0 48 | 8 50 | 1 57 | 2 50 | 12 18 | 23 11 | 23 2 | 17 14 | | | n.a. |
| S 21 | 21 27 | 4 13 | 5 5 | 22 29 | 1 5 | 16 36 | 7 4 | 12 14 | 1 26 | 19 49 | 0 19 | 6 42 | 2 32 | 13 42 | 0 48 | 8 50 | 1 57 | 2 50 | 12 18 | 23 10 | 23 2 | 17 12 | | | n.a. |
| M22 | 21 16 | 0s30 | 5 10 | 22 41 | 0 50 | 16 37 | 7 4 | 12 26 | 1 26 | 19 49 | 0 19 | 6 42 | 2 32 | 13 43 | 0 48 | 8 50 | 1 57 | 2 50 | 12 18 | 23 10 | 23 2 | 17 10 | | | n.a. |
| T 23 | 21 5 | 5 16 | 5 2 | 22 53 | 0 34 | 16 38 | 7 3 | 12 39 | 1 25 | 19 49 | 0 18 | 6 43 | 2 33 | 13 44 | 0 48 | 8 50 | 1 57 | 2 50 | 12 18 | 23 10 | 23 1 | 17 8 | | | n.a. |
| W24 | 20 54 | 9 55 | 4 39 | 23 3 | 0 20 | 16 40 | 7 1 | 12 51 | 1 25 | 19 49 | 0 18 | 6 43 | 2 33 | 13 45 | 0 48 | 8 50 | 1 57 | 2 50 | 12 19 | 23 9 | 23 1 | 17 6 | | | n.a. |
| T 25 | 20 43 | 14 15 | 4 2 | 23 11 | 0 5 | 16 42 | 7 0 | 13 3 | 1 24 | 19 49 | 0 18 | 6 44 | 2 33 | 13 45 | 0 48 | 8 50 | 1 57 | 2 50 | 12 19 | 23 9 | 23 1 | 17 4 | | | n.a. |
| F 26 | 20 31 | 18 1 | 3 11 | 23 17 | 0n 8 | 16 44 | 6 57 | 13 15 | 1 24 | 19 49 | 0 18 | 6 44 | 2 33 | 13 46 | 0 48 | 8 50 | 1 57 | 2 50 | 12 19 | 23 9 | 23 0 | 17 2 | | | n.a. |
| S 27 | 20 18 | 20 58 | 2 8 | 23 21 | 0 21 | 16 47 | 6 54 | 13 27 | 1 23 | 19 49 | 0 18 | 6 44 | 2 34 | 13 47 | 0 48 | 8 50 | 1 57 | 2 50 | 12 19 | 23 9 | 23 0 | 17 0 | | | n.a. |
| S 28 | 20 5 | 22 45 | 0 56 | 23 22 | 0 33 | 16 50 | 6 51 | 13 39 | 1 22 | 19 49 | 0 17 | 6 44 | 2 34 | 13 47 | 0 48 | 8 50 | 1 57 | 2 49 | 12 20 | 23 9 | 23 0 | 16 58 | | | n.a. |
| M29 | 19 52 | 23 6 | 0n22 | 23 21 | 0 44 | 16 54 | 6 47 | 13 50 | 1 22 | 19 49 | 0 17 | 6 45 | 2 34 | 13 48 | 0 48 | 8 50 | 1 57 | 2 49 | 12 20 | 23 10 | 22 59 | 16 56 | | | n.a. |
| T 30 | 19 39 | 21 51 | 1 40 | 23 18 | 0 54 | 16 58 | 6 43 | 14 2 | 1 21 | 19 49 | 0 17 | 6 45 | 2 35 | 13 49 | 0 48 | 8 50 | 1 57 | 2 49 | 12 20 | 23 9 | 22 59 | 16 54 | | | n.a. |
| W31 | 19n25 | 19s 2 | 2n53 | 23n12 | 1n 4 | 17n 2 | 6s39 | 14n13 | 1s20 | 19s50 | 0n17 | 6n45 | 2s35 | 13s50 | 0s48 | 8n50 | 1s57 | 2n49 | 12s20 | 23s 9 | 22s59 | 16n51 | | | n.a. |

Julian Day Number = 1687636.5, Delta T = 03h12m09s
Ecliptic obliquity = 23°42'20, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°20'32, Lahiri = - 5°13'31 Julian Calendar 1 July 93 BCE == Greg. Calendar 29 June 093 BCE

The year -92 astronomical counting style corresponds to year 093 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 93 BCE
# geocentric

## AUGUST 93 BCE (-92) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 27 33 | 5♌10'17 | 7♒19 | 22♋ 9 | 2♋29 | 12♉12 | 28♏45 | 23♈18 | 25°R43 | 27♈24 | 8♉33 | 17°R51 | 16♐ 7 | 0♌13 | n.a. | T 1 |
| F 2 | 20 31 30 | 6° 8'20 | 22°34 | 24° 0 | 2°39 | 12°46 | 28°46 | 23°18 | 25♒41 | 27°24 | 8°34 | 17♐44 | 16° 4 | 0°20 | n.a. | F 2 |
| S 3 | 20 35 26 | 7° 6'26 | 7♓37 | 25°53 | 2°51 | 13°20 | 28°47 | 23°19 | 25°39 | 27°R24 | 8°34 | 17°37 | 16° 1 | 0°27 | n.a. | S 3 |
| S 4 | 20 39 23 | 8° 4'33 | 22°19 | 27°47 | 3° 6 | 13°54 | 28°48 | 23°20 | 25°36 | 27°24 | 8°34 | 17°30 | 15°57 | 0°33 | n.a. | S 4 |
| M 5 | 20 43 19 | 9° 2'42 | 6♈33 | 29°42 | 3°22 | 14°27 | 28°49 | 23°20 | 25°34 | 27°24 | 8°34 | 17°24 | 15°54 | 0°40 | n.a. | M 5 |
| T 6 | 20 47 16 | 10° 0'54 | 20°19 | 1♌37 | 3°41 | 15° 0 | 28°50 | 23°20 | 25°32 | 27°24 | 8°34 | 17°20 | 15°51 | 0°47 | n.a. | T 6 |
| W 7 | 20 51 12 | 10°59'07 | 3♉36 | 3°33 | 4° 1 | 15°33 | 28°52 | 23°21 | 25°30 | 27°24 | 8°34 | 17°18 | 15°48 | 0°54 | n.a. | W 7 |
| T 8 | 20 55 9 | 11°57'23 | 16°26 | 5°30 | 4°23 | 16° 6 | 28°54 | 23°21 | 25°27 | 27°24 | 8°34 | 17°D18 | 15°45 | 1° 0 | n.a. | T 8 |
| F 9 | 20 59 5 | 12°55'41 | 28°55 | 7°26 | 4°47 | 16°39 | 28°56 | 23°R21 | 25°25 | 27°23 | 8°34 | 17°19 | 15°42 | 1° 7 | n.a. | F 9 |
| S 10 | 21 3 2 | 13°54'01 | 11♊ 8 | 9°22 | 5°12 | 17°11 | 28°58 | 23°21 | 25°23 | 27°23 | 8°35 | 17°R20 | 15°38 | 1°14 | n.a. | S 10 |
| S 11 | 21 6 58 | 14°52'24 | 23° 8 | 11°17 | 5°40 | 17°43 | 29° 0 | 23°20 | 25°20 | 27°23 | 8°R35 | 17°20 | 15°35 | 1°20 | n.a. | S 11 |
| M12 | 21 10 55 | 15°50'48 | 5♋ 0 | 13°12 | 6° 8 | 18°15 | 29° 3 | 23°20 | 25°18 | 27°23 | 8°35 | 17°18 | 15°32 | 1°27 | n.a. | M12 |
| T 13 | 21 14 52 | 16°49'15 | 16°49 | 15° 6 | 6°39 | 18°46 | 29° 5 | 23°20 | 25°16 | 27°22 | 8°34 | 17°14 | 15°29 | 1°34 | n.a. | T 13 |
| W14 | 21 18 48 | 17°47'44 | 28°38 | 17° 0 | 7°10 | 19°18 | 29° 8 | 23°19 | 25°13 | 27°22 | 8°34 | 17° 7 | 15°26 | 1°40 | n.a. | W14 |
| T 15 | 21 22 45 | 18°46'15 | 10♌28 | 18°52 | 7°43 | 19°49 | 29°11 | 23°18 | 25°11 | 27°22 | 8°34 | 16°58 | 15°23 | 1°47 | n.a. | T 15 |
| F 16 | 21 26 41 | 19°44'48 | 22°22 | 20°44 | 8°18 | 20°19 | 29°15 | 23°18 | 25° 8 | 27°21 | 8°34 | 16°47 | 15°19 | 1°54 | n.a. | F 16 |
| S 17 | 21 30 38 | 20°43'22 | 4♍22 | 22°34 | 8°54 | 20°50 | 29°18 | 23°17 | 25° 6 | 27°21 | 8°34 | 16°35 | 15°16 | 2° 0 | n.a. | S 17 |
| S 18 | 21 34 34 | 21°41'59 | 16°29 | 24°24 | 9°31 | 21°20 | 29°22 | 23°16 | 25° 4 | 27°20 | 8°34 | 16°23 | 15°13 | 2° 7 | n.a. | S 18 |
| M19 | 21 38 31 | 22°40'38 | 28°43 | 26°13 | 10° 9 | 21°50 | 29°26 | 23°15 | 25° 1 | 27°20 | 8°34 | 16°12 | 15°10 | 2°14 | n.a. | M19 |
| T 20 | 21 42 27 | 23°39'18 | 11♎ 7 | 28° 0 | 10°48 | 22°19 | 29°30 | 23°14 | 24°59 | 27°19 | 8°34 | 16° 3 | 15° 7 | 2°20 | n.a. | T 20 |
| W21 | 21 46 24 | 24°38'01 | 23°43 | 29°47 | 11°29 | 22°49 | 29°34 | 23°12 | 24°56 | 27°19 | 8°34 | 15°56 | 15° 3 | 2°27 | n.a. | W21 |
| T 22 | 21 50 21 | 25°36'45 | 6♏32 | 1♍33 | 12°10 | 23°18 | 29°38 | 23°11 | 24°54 | 27°18 | 8°33 | 15°52 | 15° 0 | 2°34 | n.a. | T 22 |
| F 23 | 21 54 17 | 26°35'31 | 19°39 | 3°17 | 12°53 | 23°46 | 29°42 | 23° 9 | 24°51 | 27°18 | 8°33 | 15°51 | 14°57 | 2°40 | n.a. | F 23 |
| S 24 | 21 58 14 | 27°34'19 | 3♐ 5 | 5° 1 | 13°37 | 24°15 | 29°47 | 23° 8 | 24°49 | 27°17 | 8°33 | 15°D51 | 14°54 | 2°47 | n.a. | S 24 |
| S 25 | 22 2 10 | 28°33'09 | 16°53 | 6°43 | 14°21 | 24°43 | 29°52 | 23° 6 | 24°47 | 27°16 | 8°33 | 15°R51 | 14°51 | 2°54 | n.a. | S 25 |
| M26 | 22 6 7 | 29°32'01 | 1♑ 5 | 8°25 | 15° 7 | 25°10 | 29°57 | 23° 4 | 24°44 | 27°16 | 8°32 | 15°50 | 14°48 | 3° 1 | n.a. | M26 |
| T 27 | 22 10 3 | 0♍30'54 | 15°40 | 10° 6 | 15°54 | 25°38 | 0♐ 2 | 23° 2 | 24°42 | 27°15 | 8°32 | 15°48 | 14°44 | 3° 7 | n.a. | T 27 |
| W28 | 22 14 0 | 1°29'49 | 0♒33 | 11°45 | 16°41 | 26° 5 | 0° 7 | 23° 0 | 24°39 | 27°14 | 8°32 | 15°42 | 14°41 | 3°14 | n.a. | W28 |
| T 29 | 22 17 56 | 2°28'47 | 15°39 | 13°24 | 17°29 | 26°32 | 0°13 | 22°58 | 24°37 | 27°13 | 8°31 | 15°34 | 14°38 | 3°21 | n.a. | T 29 |
| F 30 | 22 21 53 | 3°27'46 | 0♓48 | 15° 2 | 18°18 | 26°58 | 0°19 | 22°56 | 24°35 | 27°12 | 8°31 | 15°24 | 14°35 | 3°27 | n.a. | F 30 |
| S 31 | 22 25 50 | 4♍26'47 | 15♓50 | 16♍39 | 19♋ 8 | 27♉24 | 0♐24 | 22♈54 | 24♒32 | 27♈12 | 8♉30 | 15♐13 | 14♐32 | 3♌34 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| T 1 | 19n11 | 14s52 | 3n54 | 23n 3 | 1n12 | 17n 7 | 6s34 | 14n24 | 1s20 | 19s50 | 0n17 | 6n45 | 2s35 | 13s51 | 0s48 | 8n50 | 1s58 | 2n49 | 12s20 | 23s 9 | 22s58 | 16n49 | | n.a. | T 1 |
| F 2 | 18 57 | 9 45 | 4 38 | 22 51 | 1 19 | 17 11 | 6 29 | 14 35 | 1 19 | 19 50 | 0 17 | 6 45 | 2 35 | 13 51 | 0 48 | 8 50 | 1 58 | 2 49 | 12 21 | 23 8 | 22 58 | 16 47 | | n.a. | F 2 |
| S 3 | 18 42 | 4 8 | 5 3 | 22 37 | 1 26 | 17 16 | 6 24 | 14 46 | 1 18 | 19 51 | 0 16 | 6 45 | 2 36 | 13 52 | 0 48 | 8 50 | 1 58 | 2 49 | 12 21 | 23 7 | 22 58 | 16 45 | | n.a. | S 3 |
| S 4 | 18 27 | 1n36 | 5 6 | 22 20 | 1 32 | 17 22 | 6 19 | 14 57 | 1 18 | 19 51 | 0 16 | 6 45 | 2 36 | 13 53 | 0 48 | 8 50 | 1 58 | 2 48 | 12 21 | 23 7 | 22 57 | 16 43 | | n.a. | S 4 |
| M 5 | 18 12 | 7 4 | 4 50 | 22 1 | 1 36 | 17 27 | 6 13 | 15 8 | 1 17 | 19 51 | 0 16 | 6 45 | 2 36 | 13 54 | 0 48 | 8 50 | 1 58 | 2 48 | 12 21 | 23 6 | 22 57 | 16 41 | | n.a. | M 5 |
| T 6 | 17 56 | 12 0 | 4 18 | 21 39 | 1 40 | 17 32 | 6 7 | 15 18 | 1 16 | 19 52 | 0 16 | 6 45 | 2 36 | 13 54 | 0 48 | 8 50 | 1 58 | 2 48 | 12 22 | 23 6 | 22 57 | 16 39 | | n.a. | T 6 |
| W 7 | 17 40 | 16 11 | 3 33 | 21 15 | 1 43 | 17 38 | 6 1 | 15 29 | 1 15 | 19 52 | 0 16 | 6 45 | 2 37 | 13 55 | 0 48 | 8 50 | 1 58 | 2 48 | 12 22 | 23 6 | 22 56 | 16 37 | | n.a. | W 7 |
| T 8 | 17 24 | 19 28 | 2 38 | 20 49 | 1 46 | 17 43 | 5 55 | 15 39 | 1 15 | 19 53 | 0 15 | 6 44 | 2 37 | 13 56 | 0 48 | 8 50 | 1 58 | 2 48 | 12 22 | 23 6 | 22 56 | 16 35 | | n.a. | T 8 |
| F 9 | 17 7 | 21 43 | 1 37 | 20 21 | 1 47 | 17 49 | 5 48 | 15 49 | 1 14 | 19 54 | 0 15 | 6 44 | 2 37 | 13 57 | 0 48 | 8 50 | 1 58 | 2 47 | 12 22 | 23 6 | 22 56 | 16 33 | | n.a. | F 9 |
| S 10 | 16 50 | 22 55 | 0 33 | 19 51 | 1 48 | 17 55 | 5 42 | 15 59 | 1 13 | 19 54 | 0 15 | 6 44 | 2 37 | 13 58 | 0 48 | 8 49 | 1 58 | 2 47 | 12 23 | 23 6 | 22 55 | 16 31 | | n.a. | S 10 |
| S 11 | 16 33 | 23 0 | 0s31 | 19 19 | 1 48 | 18 0 | 5 35 | 16 9 | 1 12 | 19 55 | 0 15 | 6 44 | 2 38 | 13 58 | 0 48 | 8 49 | 1 58 | 2 47 | 12 23 | 23 6 | 22 55 | 16 29 | | n.a. | S 11 |
| M12 | 16 16 | 22 3 | 1 33 | 18 45 | 1 48 | 18 6 | 5 29 | 16 19 | 1 11 | 19 56 | 0 15 | 6 43 | 2 38 | 13 59 | 0 48 | 8 49 | 1 58 | 2 47 | 12 23 | 23 6 | 22 55 | 16 27 | | n.a. | M12 |
| T 13 | 15 58 | 20 8 | 2 31 | 18 11 | 1 46 | 18 11 | 5 22 | 16 28 | 1 11 | 19 56 | 0 15 | 6 43 | 2 38 | 14 0 | 0 48 | 8 49 | 1 58 | 2 47 | 12 23 | 23 5 | 22 54 | 16 25 | | n.a. | T 13 |
| W14 | 15 40 | 17 22 | 3 22 | 17 35 | 1 45 | 18 16 | 5 15 | 16 38 | 1 10 | 19 57 | 0 14 | 6 42 | 2 38 | 14 1 | 0 48 | 8 49 | 1 58 | 2 46 | 12 23 | 23 4 | 22 54 | 16 23 | | n.a. | W14 |
| T 15 | 15 22 | 13 54 | 4 4 | 16 57 | 1 43 | 18 21 | 5 8 | 16 47 | 1 9 | 19 58 | 0 14 | 6 42 | 2 39 | 14 2 | 0 48 | 8 49 | 1 58 | 2 46 | 12 24 | 23 4 | 22 54 | 16 21 | | n.a. | T 15 |
| F 16 | 15 3 | 9 52 | 4 36 | 16 19 | 1 40 | 18 26 | 5 1 | 16 56 | 1 8 | 19 59 | 0 14 | 6 41 | 2 39 | 14 3 | 0 48 | 8 48 | 1 58 | 2 46 | 12 24 | 23 2 | 22 53 | 16 19 | | n.a. | F 16 |
| S 17 | 14 45 | 5 26 | 4 56 | 15 40 | 1 37 | 18 31 | 4 54 | 17 5 | 1 7 | 20 0 | 0 14 | 6 41 | 2 39 | 14 3 | 0 48 | 8 48 | 1 59 | 2 46 | 12 24 | 23 1 | 22 53 | 16 17 | | n.a. | S 17 |
| S 18 | 14 26 | 0 45 | 5 2 | 15 0 | 1 33 | 18 36 | 4 47 | 17 14 | 1 6 | 20 1 | 0 14 | 6 40 | 2 39 | 14 4 | 0 48 | 8 48 | 1 59 | 2 45 | 12 24 | 23 0 | 22 53 | 16 15 | | n.a. | S 18 |
| M19 | 14 6 | 4s 0 | 4 55 | 14 19 | 1 29 | 18 40 | 4 39 | 17 23 | 1 5 | 20 2 | 0 14 | 6 40 | 2 40 | 14 5 | 0 48 | 8 48 | 1 59 | 2 45 | 12 25 | 22 59 | 22 52 | 16 12 | | n.a. | M19 |
| T 20 | 13 47 | 8 39 | 4 34 | 13 38 | 1 25 | 18 44 | 4 32 | 17 31 | 1 4 | 20 3 | 0 13 | 6 39 | 2 40 | 14 6 | 0 48 | 8 47 | 1 59 | 2 45 | 12 25 | 22 58 | 22 52 | 16 10 | | n.a. | T 20 |
| W21 | 13 27 | 13 1 | 4 0 | 12 56 | 1 20 | 18 48 | 4 25 | 17 40 | 1 3 | 20 4 | 0 13 | 6 38 | 2 40 | 14 7 | 0 48 | 8 47 | 1 59 | 2 45 | 12 25 | 22 57 | 22 51 | 16 8 | | n.a. | W21 |
| T 22 | 13 7 | 16 52 | 3 13 | 12 13 | 1 16 | 18 52 | 4 18 | 17 48 | 1 2 | 20 5 | 0 13 | 6 38 | 2 40 | 14 7 | 0 48 | 8 47 | 1 59 | 2 44 | 12 25 | 22 57 | 22 51 | 16 6 | | n.a. | T 22 |
| F 23 | 12 47 | 20 0 | 2 14 | 11 30 | 1 10 | 18 55 | 4 10 | 17 56 | 1 1 | 20 6 | 0 13 | 6 37 | 2 41 | 14 8 | 0 48 | 8 47 | 1 59 | 2 44 | 12 25 | 22 57 | 22 51 | 16 4 | | n.a. | F 23 |
| S 24 | 12 27 | 22 6 | 1 7 | 10 47 | 1 5 | 18 58 | 4 3 | 18 4 | 1 0 | 20 7 | 0 13 | 6 36 | 2 41 | 14 9 | 0 48 | 8 46 | 1 59 | 2 44 | 12 26 | 22 57 | 22 50 | 16 2 | | n.a. | S 24 |
| S 25 | 12 6 | 22 58 | 0n 6 | 10 3 | 0 59 | 19 1 | 3 56 | 18 12 | 0 59 | 20 9 | 0 13 | 6 35 | 2 41 | 14 10 | 0 48 | 8 46 | 1 59 | 2 43 | 12 26 | 22 57 | 22 50 | 16 0 | | n.a. | S 25 |
| M26 | 11 46 | 22 22 | 1 20 | 9 20 | 0 53 | 19 3 | 3 49 | 18 20 | 0 58 | 20 10 | 0 12 | 6 34 | 2 41 | 14 11 | 0 48 | 8 46 | 1 59 | 2 43 | 12 26 | 22 57 | 22 50 | 15 58 | | n.a. | M26 |
| T 27 | 11 25 | 20 17 | 2 31 | 8 36 | 0 47 | 19 5 | 3 41 | 18 27 | 0 57 | 20 11 | 0 12 | 6 33 | 2 42 | 14 12 | 0 48 | 8 45 | 1 59 | 2 43 | 12 26 | 22 56 | 22 49 | 15 56 | | n.a. | T 27 |
| W28 | 11 4 | 16 47 | 3 33 | 7 52 | 0 41 | 19 7 | 3 34 | 18 35 | 0 56 | 20 12 | 0 12 | 6 32 | 2 42 | 14 12 | 0 48 | 8 45 | 1 59 | 2 43 | 12 26 | 22 56 | 22 49 | 15 54 | | n.a. | W28 |
| T 29 | 10 42 | 12 10 | 4 21 | 7 8 | 0 35 | 19 8 | 3 27 | 18 42 | 0 55 | 20 14 | 0 12 | 6 31 | 2 42 | 14 13 | 0 48 | 8 45 | 1 59 | 2 42 | 12 27 | 22 55 | 22 49 | 15 52 | | n.a. | T 29 |
| F 30 | 10 21 | 6 46 | 4 51 | 6 23 | 0 28 | 19 9 | 3 20 | 18 49 | 0 54 | 20 15 | 0 12 | 6 30 | 2 42 | 14 14 | 0 48 | 8 44 | 1 59 | 2 42 | 12 27 | 22 54 | 22 48 | 15 49 | | n.a. | F 30 |
| S 31 | 9n59 | 1s 2 | 5n 1 | 5n39 | 0n21 | 19n 9 | 3s12 | 18n57 | 0s53 | 20s16 | 0n12 | 6n29 | 2s42 | 14s15 | 0s48 | 8n44 | 1s59 | 2n42 | 12s27 | 22s53 | 22s48 | 15n47 | | n.a. | S 31 |

Julian Day Number = 1687667.5, Delta T = 03h12m09s
Ecliptic obliquity = 23°42'20, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°20'27, Lahiri = - 5°13'27 Julian Calendar 1 Aug. 93 BCE == Greg. Calendar 30 July 093 BCE

The year -92 astronomical counting style corresponds to year 093 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 93 BCE
# geocentric

## SEPTEMBER 93 BCE (-92) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 22 29 46 | 5♍25'50 | 0♈35 | 18♍15 | 19♋59 | 27♉50 | 0♐30 | 22°R51 | 24°R30 | 27°R11 | 8°R30 | 15°R 2 | 14♐28 | 3♌41 | n.a. | S 1 |
| M 2 | 22 33 43 | 6°24'56 | 14°56 | 19°51 | 20°50 | 28°15 | 0°37 | 22♈49 | 24♒28 | 27♈10 | 8♉30 | 14♐53 | 14°25 | 3°47 | n.a. | M 2 |
| T 3 | 22 37 39 | 7°24'04 | 28°47 | 21°25 | 21°42 | 28°40 | 0°43 | 22°46 | 24°25 | 27° 9 | 8°29 | 14°46 | 14°22 | 3°54 | n.a. | T 3 |
| W 4 | 22 41 36 | 8°23'15 | 12♉ 9 | 22°59 | 22°35 | 29° 4 | 0°49 | 22°43 | 24°23 | 27° 8 | 8°29 | 14°41 | 14°19 | 4° 1 | n.a. | W 4 |
| T 5 | 22 45 32 | 9°22'28 | 25° 4 | 24°31 | 23°28 | 29°28 | 0°56 | 22°41 | 24°21 | 27° 7 | 8°28 | 14°39 | 14°16 | 4° 7 | n.a. | T 5 |
| F 6 | 22 49 29 | 10°21'43 | 7♊35 | 26° 3 | 24°22 | 29°52 | 1° 3 | 22°38 | 24°18 | 27° 6 | 8°28 | 14°39 | 14°13 | 4°14 | n.a. | F 6 |
| S 7 | 22 53 25 | 11°21'01 | 19°47 | 27°35 | 25°17 | 0♊15 | 1° 9 | 22°35 | 24°16 | 27° 5 | 8°27 | 14°39 | 14° 9 | 4°21 | n.a. | S 7 |
| S 8 | 22 57 22 | 12°20'21 | 1♋46 | 29° 5 | 26°12 | 0°38 | 1°17 | 22°32 | 24°14 | 27° 4 | 8°27 | 14°38 | 14° 6 | 4°28 | n.a. | S 8 |
| M 9 | 23 1 18 | 13°19'44 | 13°38 | 0♎35 | 27° 8 | 1° 0 | 1°24 | 22°28 | 24°12 | 27° 3 | 8°26 | 14°35 | 14° 3 | 4°34 | n.a. | M 9 |
| T 10 | 23 5 15 | 14°19'09 | 25°26 | 2° 3 | 28° 4 | 1°22 | 1°31 | 22°25 | 24° 9 | 27° 1 | 8°25 | 14°30 | 14° 0 | 4°41 | n.a. | T 10 |
| W11 | 23 9 12 | 15°18'36 | 7♌16 | 3°31 | 29° 1 | 1°44 | 1°39 | 22°22 | 24° 7 | 27° 0 | 8°25 | 14°22 | 13°57 | 4°48 | n.a. | W11 |
| T 12 | 23 13 8 | 16°18'06 | 19°10 | 4°58 | 29°59 | 2° 5 | 1°46 | 22°18 | 24° 5 | 26°59 | 8°24 | 14°12 | 13°54 | 4°54 | n.a. | T 12 |
| F 13 | 23 17 5 | 17°17'38 | 1♍11 | 6°25 | 0♌57 | 2°25 | 1°54 | 22°15 | 24° 3 | 26°58 | 8°23 | 13°59 | 13°50 | 5° 1 | n.a. | F 13 |
| S 14 | 23 21 1 | 18°17'12 | 13°20 | 7°50 | 1°55 | 2°45 | 2° 2 | 22°11 | 24° 1 | 26°57 | 8°23 | 13°45 | 13°47 | 5° 8 | n.a. | S 14 |
| S 15 | 23 24 58 | 19°16'48 | 25°39 | 9°15 | 2°54 | 3° 5 | 2°10 | 22° 8 | 23°59 | 26°55 | 8°22 | 13°30 | 13°44 | 5°14 | n.a. | S 15 |
| M16 | 23 28 54 | 20°16'26 | 8♎ 8 | 10°38 | 3°54 | 3°24 | 2°18 | 22° 4 | 23°56 | 26°54 | 8°21 | 13°17 | 13°41 | 5°21 | n.a. | M16 |
| T 17 | 23 32 51 | 21°16'06 | 20°47 | 12° 1 | 4°54 | 3°43 | 2°26 | 22° 0 | 23°54 | 26°53 | 8°21 | 13° 6 | 13°38 | 5°28 | n.a. | T 17 |
| W18 | 23 36 47 | 22°15'49 | 3♏37 | 13°23 | 5°54 | 4° 1 | 2°35 | 21°56 | 23°52 | 26°52 | 8°20 | 12°58 | 13°34 | 5°34 | n.a. | W18 |
| T 19 | 23 40 44 | 23°15'33 | 16°38 | 14°44 | 6°55 | 4°18 | 2°43 | 21°52 | 23°50 | 26°50 | 8°19 | 12°53 | 13°31 | 5°41 | n.a. | T 19 |
| F 20 | 23 44 41 | 24°15'19 | 29°52 | 16° 3 | 7°56 | 4°35 | 2°52 | 21°48 | 23°48 | 26°49 | 8°18 | 12°51 | 13°28 | 5°48 | n.a. | F 20 |
| S 21 | 23 48 37 | 25°15'07 | 13♐19 | 17°22 | 8°57 | 4°51 | 3° 1 | 21°44 | 23°46 | 26°47 | 8°18 | 12°D51 | 13°25 | 5°55 | n.a. | S 21 |
| S 22 | 23 52 34 | 26°14'57 | 27° 3 | 18°39 | 9°59 | 5° 7 | 3°10 | 21°40 | 23°44 | 26°46 | 8°17 | 12°R51 | 13°22 | 6° 1 | n.a. | S 22 |
| M23 | 23 56 30 | 27°14'48 | 11♑ 3 | 19°55 | 11° 1 | 5°22 | 3°19 | 21°36 | 23°43 | 26°45 | 8°16 | 12°50 | 13°19 | 6° 8 | n.a. | M23 |
| T 24 | 0 0 27 | 28°14'42 | 25°20 | 21° 9 | 12° 4 | 5°37 | 3°28 | 21°32 | 23°41 | 26°43 | 8°15 | 12°48 | 13°15 | 6°15 | n.a. | T 24 |
| W25 | 0 4 23 | 29°14'37 | 9♒53 | 22°22 | 13° 7 | 5°51 | 3°38 | 21°27 | 23°39 | 26°42 | 8°14 | 12°43 | 13°12 | 6°21 | n.a. | W25 |
| T 26 | 0 8 20 | 0♎14'33 | 24°36 | 23°33 | 14°10 | 6° 4 | 3°47 | 21°23 | 23°37 | 26°40 | 8°14 | 12°35 | 13° 9 | 6°28 | n.a. | T 26 |
| F 27 | 0 12 16 | 1°14'32 | 9♓24 | 24°42 | 15°14 | 6°17 | 3°57 | 21°18 | 23°35 | 26°39 | 8°13 | 12°25 | 13° 6 | 6°35 | n.a. | F 27 |
| S 28 | 0 16 13 | 2°14'32 | 24° 8 | 25°49 | 16°18 | 6°29 | 4° 6 | 21°14 | 23°34 | 26°37 | 8°12 | 12°14 | 13° 3 | 6°41 | n.a. | S 28 |
| S 29 | 0 20 9 | 3°14'34 | 8♈41 | 26°54 | 17°22 | 6°40 | 4°16 | 21° 9 | 23°32 | 26°36 | 8°11 | 12° 4 | 13° 0 | 6°48 | n.a. | S 29 |
| M30 | 0 24 6 | 4♎14'39 | 22♈54 | 27♎57 | 18♌27 | 6♊51 | 4♐26 | 21♈ 5 | 23♒30 | 26♈34 | 8♉10 | 11♐54 | 12♐56 | 6♌55 | n.a. | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 9n37 | 4n40 | 4n50 | 4n55 | 0n15 | 19n 9 | 3s 5 | 19n 4 | 0s52 | 20s18 | 0n11 | 6n28 | 2s43 | 14s15 | 0s48 | 8n44 | 1s59 | 2n41 | 12s27 | 22s51 | 22s47 | 15n45 | | n.a. |
| M 2 | 9 15 | 9 57 | 4 21 | 4 11 | 0 8 | 19 8 | 2 58 | 19 10 | 0 50 | 20 19 | 0 11 | 6 27 | 2 43 | 14 16 | 0 48 | 8 43 | 1 59 | 2 41 | 12 28 | 22 50 | 22 47 | 15 43 | | n.a. |
| T 3 | 8 53 | 14 32 | 3 37 | 3 27 | 0 1 | 19 7 | 2 51 | 19 17 | 0 49 | 20 21 | 0 11 | 6 26 | 2 43 | 14 17 | 0 48 | 8 43 | 1 59 | 2 41 | 12 28 | 22 49 | 22 47 | 15 41 | | n.a. |
| W 4 | 8 31 | 18 14 | 2 43 | 2 43 | 0s 6 | 19 6 | 2 44 | 19 24 | 0 48 | 20 22 | 0 11 | 6 25 | 2 43 | 14 18 | 0 48 | 8 42 | 2 0 | 2 40 | 12 28 | 22 49 | 22 46 | 15 39 | | n.a. |
| T 5 | 8 9 | 20 53 | 1 42 | 2 0 | 0 13 | 19 4 | 2 37 | 19 30 | 0 47 | 20 24 | 0 11 | 6 23 | 2 43 | 14 19 | 0 48 | 8 42 | 2 0 | 2 40 | 12 28 | 22 49 | 22 46 | 15 37 | | n.a. |
| F 6 | 7 46 | 22 26 | 0 37 | 1 16 | 0 21 | 19 1 | 2 30 | 19 36 | 0 45 | 20 25 | 0 11 | 6 22 | 2 44 | 14 19 | 0 48 | 8 42 | 2 0 | 2 40 | 12 28 | 22 49 | 22 46 | 15 35 | | n.a. |
| S 7 | 7 23 | 22 51 | 0s27 | 0 33 | 0 28 | 18 58 | 2 23 | 19 43 | 0 44 | 20 27 | 0 10 | 6 21 | 2 44 | 14 20 | 0 48 | 8 41 | 2 0 | 2 39 | 12 28 | 22 49 | 22 45 | 15 33 | | n.a. |
| S 8 | 7 0 | 22 12 | 1 29 | 0s10 | 0 35 | 18 55 | 2 16 | 19 49 | 0 43 | 20 29 | 0 10 | 6 20 | 2 44 | 14 21 | 0 48 | 8 41 | 2 0 | 2 39 | 12 29 | 22 49 | 22 45 | 15 30 | | n.a. |
| M 9 | 6 37 | 20 34 | 2 27 | 0 52 | 0 42 | 18 51 | 2 9 | 19 55 | 0 41 | 20 30 | 0 10 | 6 18 | 2 44 | 14 22 | 0 48 | 8 40 | 2 0 | 2 39 | 12 29 | 22 48 | 22 44 | 15 28 | | n.a. |
| T 10 | 6 14 | 18 3 | 3 18 | 1 35 | 0 49 | 18 46 | 2 3 | 20 1 | 0 40 | 20 32 | 0 10 | 6 17 | 2 44 | 14 22 | 0 48 | 8 40 | 2 0 | 2 38 | 12 29 | 22 48 | 22 44 | 15 26 | | n.a. |
| W11 | 5 51 | 14 48 | 4 0 | 2 16 | 0 56 | 18 41 | 1 56 | 20 6 | 0 39 | 20 34 | 0 10 | 6 15 | 2 45 | 14 23 | 0 48 | 8 39 | 2 0 | 2 38 | 12 29 | 22 47 | 22 44 | 15 24 | | n.a. |
| T 12 | 5 28 | 10 56 | 4 32 | 2 58 | 1 3 | 18 36 | 1 49 | 20 12 | 0 37 | 20 35 | 0 10 | 6 14 | 2 45 | 14 24 | 0 48 | 8 39 | 2 0 | 2 38 | 12 29 | 22 45 | 22 43 | 15 22 | | n.a. |
| F 13 | 5 4 | 6 37 | 4 52 | 3 39 | 1 11 | 18 30 | 1 43 | 20 17 | 0 36 | 20 37 | 0 10 | 6 13 | 2 45 | 14 25 | 0 48 | 8 38 | 2 0 | 2 37 | 12 30 | 22 44 | 22 43 | 15 20 | | n.a. |
| S 14 | 4 41 | 2 1 | 5 0 | 4 20 | 1 18 | 18 23 | 1 36 | 20 23 | 0 34 | 20 39 | 0 9 | 6 11 | 2 45 | 14 25 | 0 48 | 8 38 | 2 0 | 2 37 | 12 30 | 22 42 | 22 43 | 15 18 | | n.a. |
| S 15 | 4 17 | 2s44 | 4 53 | 5 0 | 1 24 | 18 16 | 1 30 | 20 28 | 0 33 | 20 40 | 0 9 | 6 10 | 2 45 | 14 26 | 0 48 | 8 38 | 2 0 | 2 36 | 12 30 | 22 40 | 22 42 | 15 16 | | n.a. |
| M16 | 3 54 | 7 25 | 4 32 | 5 39 | 1 31 | 18 9 | 1 23 | 20 33 | 0 31 | 20 42 | 0 9 | 6 8 | 2 45 | 14 27 | 0 48 | 8 37 | 2 0 | 2 36 | 12 30 | 22 39 | 22 42 | 15 13 | | n.a. |
| T 17 | 3 30 | 11 52 | 3 58 | 6 18 | 1 38 | 18 0 | 1 17 | 20 38 | 0 30 | 20 44 | 0 9 | 6 6 | 2 45 | 14 27 | 0 48 | 8 37 | 2 0 | 2 36 | 12 30 | 22 37 | 22 41 | 15 11 | | n.a. |
| W18 | 3 6 | 15 51 | 3 11 | 6 56 | 1 45 | 17 52 | 1 11 | 20 43 | 0 28 | 20 46 | 0 9 | 6 5 | 2 46 | 14 28 | 0 48 | 8 36 | 2 0 | 2 35 | 12 30 | 22 36 | 22 41 | 15 9 | | n.a. |
| T 19 | 2 42 | 19 8 | 2 14 | 7 34 | 1 51 | 17 42 | 1 5 | 20 48 | 0 27 | 20 48 | 0 9 | 6 3 | 2 46 | 14 29 | 0 48 | 8 35 | 2 0 | 2 35 | 12 31 | 22 36 | 22 41 | 15 7 | | n.a. |
| F 20 | 2 18 | 21 27 | 1 8 | 8 11 | 1 57 | 17 33 | 0 59 | 20 53 | 0 25 | 20 50 | 0 9 | 6 2 | 2 46 | 14 29 | 0 48 | 8 35 | 2 0 | 2 34 | 12 31 | 22 36 | 22 40 | 15 5 | | n.a. |
| S 21 | 1 54 | 22 37 | 0n 3 | 8 47 | 2 3 | 17 22 | 0 53 | 20 57 | 0 23 | 20 51 | 0 8 | 6 0 | 2 46 | 14 30 | 0 48 | 8 34 | 2 0 | 2 34 | 12 31 | 22 35 | 22 40 | 15 3 | | n.a. |
| S 22 | 1 30 | 22 26 | 1 15 | 9 23 | 2 9 | 17 11 | 0 47 | 21 2 | 0 22 | 20 53 | 0 8 | 5 58 | 2 46 | 14 30 | 0 48 | 8 34 | 2 0 | 2 34 | 12 31 | 22 35 | 22 39 | 15 0 | | n.a. |
| M23 | 1 6 | 20 51 | 2 24 | 9 57 | 2 15 | 17 0 | 0 41 | 21 6 | 0 20 | 20 55 | 0 8 | 5 57 | 2 46 | 14 31 | 0 48 | 8 33 | 2 0 | 2 33 | 12 31 | 22 35 | 22 39 | 14 58 | | n.a. |
| T 24 | 0 42 | 17 57 | 3 25 | 10 31 | 2 21 | 16 48 | 0 35 | 21 11 | 0 18 | 20 57 | 0 8 | 5 55 | 2 46 | 14 32 | 0 48 | 8 33 | 2 0 | 2 33 | 12 31 | 22 35 | 22 39 | 14 56 | | n.a. |
| W25 | 0 18 | 13 53 | 4 14 | 11 3 | 2 26 | 16 36 | 0 30 | 21 15 | 0 17 | 20 59 | 0 8 | 5 53 | 2 46 | 14 32 | 0 48 | 8 32 | 2 0 | 2 33 | 12 31 | 22 34 | 22 38 | 14 54 | | n.a. |
| T 26 | 0s 6 | 8 57 | 4 47 | 11 34 | 2 31 | 16 23 | 0 24 | 21 19 | 0 15 | 21 1 | 0 8 | 5 51 | 2 47 | 14 33 | 0 48 | 8 32 | 2 0 | 2 32 | 12 32 | 22 33 | 22 38 | 14 52 | | n.a. |
| F 27 | 0 30 | 3 29 | 5 1 | 12 5 | 2 35 | 16 9 | 0 19 | 21 23 | 0 13 | 21 3 | 0 8 | 5 50 | 2 47 | 14 33 | 0 48 | 8 31 | 2 0 | 2 32 | 12 32 | 22 32 | 22 37 | 14 50 | | n.a. |
| S 28 | 0 54 | 2n10 | 4 55 | 12 33 | 2 40 | 15 55 | 0 13 | 21 27 | 0 11 | 21 5 | 0 7 | 5 48 | 2 47 | 14 34 | 0 48 | 8 31 | 2 0 | 2 31 | 12 32 | 22 31 | 22 37 | 14 48 | | n.a. |
| S 29 | 1 18 | 7 36 | 4 30 | 13 1 | 2 43 | 15 41 | 0 8 | 21 31 | 0 9 | 21 7 | 0 7 | 5 46 | 2 47 | 14 35 | 0 48 | 8 30 | 2 1 | 2 31 | 12 32 | 22 29 | 22 37 | 14 45 | | n.a. |
| M30 | 1s42 | 12n32 | 3n49 | 13s27 | 2s47 | 15n25 | 0s 3 | 21n34 | 0s 7 | 21s 9 | 0n 7 | 5n44 | 2s47 | 14s35 | 0s48 | 8n29 | 2s 1 | 2n31 | 12s32 | 22s28 | 22s36 | 14n43 | | n.a. |

Julian Day Number = 1687698.5, Delta T = 03h12m08s
Ecliptic obliquity = 23°42'21, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°20'23, Lahiri = - 5°13'23 Julian Calendar 1 Sept. 93 BCE == Greg. Calendar 30 Aug. 093 BCE


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# ASTRODIENST EPHEMERIS for the year 93 BCE
# geocentric

## OCTOBER 93 BCE (-92) JC 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 28 3 | 5♎14'45 | 6♉43 | 28♎56 | 19♌32 | 7♊ 1 | 4♐36 | 21°R 0 | 23°R29 | 26°R33 | 8°R 9 | 11°R47 | 12♐53 | 7♌ 1 | n.a. | T 1 |
| W 2 | 0 31 59 | 6°14'54 | 20° 6 | 29°52 | 20°37 | 7°11 | 4°46 | 20♈56 | 23♒27 | 26♈31 | 8♉ 8 | 11♐42 | 12°50 | 7° 8 | n.a. | W 2 |
| T 3 | 0 35 56 | 7°15'04 | 3♊ 3 | 0♏45 | 21°43 | 7°19 | 4°57 | 20°51 | 23°25 | 26°30 | 8° 7 | 11°40 | 12°47 | 7°15 | n.a. | T 3 |
| F 4 | 0 39 52 | 8°15'17 | 15°38 | 1°34 | 22°48 | 7°27 | 5° 7 | 20°46 | 23°24 | 26°28 | 8° 6 | 11°D40 | 12°44 | 7°22 | n.a. | F 4 |
| S 5 | 0 43 49 | 9°15'32 | 27°53 | 2°18 | 23°54 | 7°35 | 5°17 | 20°41 | 23°22 | 26°26 | 8° 5 | 11°41 | 12°40 | 7°28 | n.a. | S 5 |
| S 6 | 0 47 45 | 10°15'50 | 9♋54 | 2°58 | 25° 1 | 7°41 | 5°28 | 20°37 | 23°21 | 26°25 | 8° 4 | 11°R41 | 12°37 | 7°35 | n.a. | S 6 |
| M 7 | 0 51 42 | 11°16'09 | 21°47 | 3°32 | 26° 7 | 7°47 | 5°39 | 20°32 | 23°20 | 26°23 | 8° 3 | 11°40 | 12°34 | 7°42 | n.a. | M 7 |
| T 8 | 0 55 38 | 12°16'30 | 3♌37 | 4° 0 | 27°14 | 7°52 | 5°49 | 20°27 | 23°18 | 26°22 | 8° 2 | 11°38 | 12°31 | 7°48 | n.a. | T 8 |
| W 9 | 0 59 35 | 13°16'54 | 15°29 | 4°22 | 28°21 | 7°56 | 6° 0 | 20°22 | 23°17 | 26°20 | 8° 1 | 11°33 | 12°28 | 7°55 | n.a. | W 9 |
| T 10 | 1 3 32 | 14°17'19 | 27°26 | 4°36 | 29°29 | 8° 0 | 6°11 | 20°17 | 23°16 | 26°18 | 8° 0 | 11°25 | 12°25 | 8° 2 | n.a. | T 10 |
| F 11 | 1 7 28 | 15°17'46 | 9♍33 | 4°R42 | 0♍36 | 8° 2 | 6°22 | 20°12 | 23°15 | 26°17 | 7°59 | 11°16 | 12°21 | 8° 8 | n.a. | F 11 |
| S 12 | 1 11 25 | 16°18'15 | 21°52 | 4°40 | 1°44 | 8° 4 | 6°33 | 20° 7 | 23°13 | 26°15 | 7°58 | 11° 6 | 12°18 | 8°15 | n.a. | S 12 |
| S 13 | 1 15 21 | 17°18'46 | 4♎24 | 4°28 | 2°52 | 8° 5 | 6°45 | 20° 2 | 23°12 | 26°13 | 7°57 | 10°55 | 12°15 | 8°22 | n.a. | S 13 |
| M14 | 1 19 18 | 18°19'19 | 17°10 | 4° 6 | 4° 0 | 8°R 5 | 6°56 | 19°58 | 23°11 | 26°12 | 7°56 | 10°45 | 12°12 | 8°29 | n.a. | M14 |
| T 15 | 1 23 14 | 19°19'54 | 0♏ 9 | 3°34 | 5° 8 | 8° 4 | 7° 7 | 19°53 | 23°10 | 26°10 | 7°55 | 10°37 | 12° 9 | 8°35 | n.a. | T 15 |
| W16 | 1 27 11 | 20°20'30 | 13°20 | 2°52 | 6°17 | 8° 3 | 7°19 | 19°48 | 23° 9 | 26° 8 | 7°54 | 10°32 | 12° 5 | 8°42 | n.a. | W16 |
| T 17 | 1 31 7 | 21°21'08 | 26°43 | 2° 0 | 7°26 | 8° 0 | 7°31 | 19°43 | 23° 8 | 26° 6 | 7°53 | 10°29 | 12° 2 | 8°49 | n.a. | T 17 |
| F 18 | 1 35 4 | 22°21'47 | 10♐16 | 0°59 | 8°35 | 7°57 | 7°42 | 19°38 | 23° 7 | 26° 5 | 7°52 | 10°D28 | 11°59 | 8°55 | n.a. | F 18 |
| S 19 | 1 39 1 | 23°22'27 | 23°58 | 29♎50 | 9°44 | 7°53 | 7°54 | 19°33 | 23° 6 | 26° 3 | 7°51 | 10°28 | 11°56 | 9° 2 | n.a. | S 19 |
| S 20 | 1 42 57 | 24°23'09 | 7♑49 | 28°34 | 10°53 | 7°48 | 8° 6 | 19°28 | 23° 6 | 26° 1 | 7°49 | 10°29 | 11°53 | 9° 9 | n.a. | S 20 |
| M21 | 1 46 54 | 25°23'52 | 21°49 | 27°14 | 12° 2 | 7°42 | 8°18 | 19°23 | 23° 5 | 26° 0 | 7°48 | 10°R30 | 11°50 | 9°15 | n.a. | M21 |
| T 22 | 1 50 50 | 26°24'36 | 5♒58 | 25°53 | 13°12 | 7°35 | 8°30 | 19°18 | 23° 4 | 25°58 | 7°47 | 10°30 | 11°46 | 9°22 | n.a. | T 22 |
| W23 | 1 54 47 | 27°25'22 | 20°13 | 24°32 | 14°22 | 7°28 | 8°42 | 19°13 | 23° 3 | 25°56 | 7°46 | 10°28 | 11°43 | 9°29 | n.a. | W23 |
| T 24 | 1 58 43 | 28°26'08 | 4♓32 | 23°15 | 15°32 | 7°19 | 8°54 | 19° 8 | 23° 3 | 25°55 | 7°45 | 10°24 | 11°40 | 9°36 | n.a. | T 24 |
| F 25 | 2 2 40 | 29°26'56 | 18°52 | 22° 5 | 16°42 | 7°10 | 9° 6 | 19° 4 | 23° 2 | 25°53 | 7°44 | 10°18 | 11°37 | 9°42 | n.a. | F 25 |
| S 26 | 2 6 36 | 0♏27'44 | 3♈ 7 | 21° 2 | 17°52 | 7° 0 | 9°19 | 18°59 | 23° 2 | 25°51 | 7°43 | 10°11 | 11°34 | 9°49 | n.a. | S 26 |
| S 27 | 2 10 33 | 1°28'34 | 17°14 | 20°10 | 19° 2 | 6°49 | 9°31 | 18°54 | 23° 1 | 25°49 | 7°42 | 10° 5 | 11°31 | 9°56 | n.a. | S 27 |
| M28 | 2 14 30 | 2°29'25 | 1♉ 6 | 19°29 | 20°13 | 6°37 | 9°43 | 18°49 | 23° 1 | 25°48 | 7°40 | 9°59 | 11°27 | 10° 2 | n.a. | M28 |
| T 29 | 2 18 26 | 3°30'17 | 14°40 | 18°59 | 21°24 | 6°24 | 9°56 | 18°45 | 23° 1 | 25°46 | 7°39 | 9°55 | 11°24 | 10° 9 | n.a. | T 29 |
| W30 | 2 22 23 | 4°31'11 | 27°54 | 18°40 | 22°34 | 6°11 | 10° 9 | 18°40 | 23° 0 | 25°44 | 7°38 | 9°53 | 11°21 | 10°16 | n.a. | W30 |
| T 31 | 2 26 19 | 5♏32'06 | 10♊47 | 18°D34 | 23♍45 | 5♊57 | 10♐21 | 18♈35 | 23♒ 0 | 25♈43 | 7♉37 | 9°D52 | 11♐18 | 10♌22 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| T 1 | 2s 6 | 16n39 | 2n55 | 13s51 | 2s50 | 15n10 | 0n 2 | 21n38 | 0s 5 | 21s11 | 0n 7 | 5n43 | 2s47 | 14s36 | 0s48 | 8n29 | 2s 1 | 2n30 | 12s32 | 22s27 | 22s36 | 14n41 | | | n.a. |
| W 2 | 2 30 | 19 46 | 1 52 | 14 14 | 2 52 | 14 54 | 0 7 | 21 42 | 0 3 | 21 13 | 0 7 | 5 41 | 2 47 | 14 36 | 0 48 | 8 28 | 2 1 | 2 30 | 12 32 | 22 26 | 22 35 | 14 39 | | | n.a. |
| T 3 | 2 55 | 21 45 | 0 46 | 14 34 | 2 54 | 14 37 | 0 12 | 21 45 | 0 1 | 21 15 | 0 7 | 5 39 | 2 47 | 14 37 | 0 48 | 8 28 | 2 1 | 2 29 | 12 32 | 22 26 | 22 35 | 14 37 | | | n.a. |
| F 4 | 3 19 | 22 34 | 0s21 | 14 52 | 2 55 | 14 20 | 0 17 | 21 48 | 0n 1 | 21 17 | 0 7 | 5 37 | 2 47 | 14 37 | 0 48 | 8 27 | 2 1 | 2 29 | 12 33 | 22 26 | 22 35 | 14 34 | | | n.a. |
| S 5 | 3 43 | 22 16 | 1 26 | 15 8 | 2 55 | 14 3 | 0 22 | 21 52 | 0 3 | 21 19 | 0 7 | 5 35 | 2 47 | 14 38 | 0 48 | 8 26 | 2 1 | 2 29 | 12 33 | 22 26 | 22 34 | 14 32 | | | n.a. |
| S 6 | 4 6 | 20 55 | 2 25 | 15 22 | 2 54 | 13 45 | 0 27 | 21 55 | 0 5 | 21 21 | 0 6 | 5 33 | 2 47 | 14 38 | 0 48 | 8 26 | 2 1 | 2 28 | 12 33 | 22 26 | 22 34 | 14 30 | | | n.a. |
| M 7 | 4 30 | 18 40 | 3 17 | 15 32 | 2 53 | 13 26 | 0 31 | 21 58 | 0 7 | 21 23 | 0 6 | 5 32 | 2 47 | 14 38 | 0 48 | 8 25 | 2 1 | 2 28 | 12 33 | 22 26 | 22 33 | 14 28 | | | n.a. |
| T 8 | 4 54 | 15 39 | 4 1 | 15 40 | 2 50 | 13 7 | 0 36 | 22 1 | 0 9 | 21 25 | 0 6 | 5 30 | 2 47 | 14 39 | 0 48 | 8 25 | 2 1 | 2 27 | 12 33 | 22 26 | 22 33 | 14 26 | | | n.a. |
| W 9 | 5 18 | 12 0 | 4 34 | 15 44 | 2 47 | 12 48 | 0 40 | 22 4 | 0 11 | 21 27 | 0 6 | 5 28 | 2 47 | 14 39 | 0 47 | 8 24 | 2 1 | 2 27 | 12 33 | 22 25 | 22 32 | 14 24 | | | n.a. |
| T 10 | 5 42 | 7 52 | 4 56 | 15 44 | 2 42 | 12 28 | 0 44 | 22 6 | 0 13 | 21 29 | 0 6 | 5 26 | 2 47 | 14 40 | 0 47 | 8 23 | 2 1 | 2 27 | 12 33 | 22 24 | 22 32 | 14 21 | | | n.a. |
| F 11 | 6 5 | 3 22 | 5 5 | 15 40 | 2 36 | 12 8 | 0 48 | 22 9 | 0 16 | 21 31 | 0 6 | 5 24 | 2 47 | 14 40 | 0 47 | 8 23 | 2 1 | 2 26 | 12 33 | 22 23 | 22 32 | 14 19 | | | n.a. |
| S 12 | 6 29 | 1s19 | 5 0 | 15 32 | 2 28 | 11 47 | 0 52 | 22 12 | 0 18 | 21 33 | 0 6 | 5 22 | 2 47 | 14 40 | 0 47 | 8 22 | 2 1 | 2 26 | 12 33 | 22 21 | 22 31 | 14 17 | | | n.a. |
| S 13 | 6 52 | 6 2 | 4 40 | 15 19 | 2 19 | 11 26 | 0 56 | 22 14 | 0 20 | 21 35 | 0 6 | 5 21 | 2 47 | 14 41 | 0 47 | 8 22 | 2 1 | 2 25 | 12 33 | 22 20 | 22 31 | 14 15 | | | n.a. |
| M14 | 7 16 | 10 36 | 4 6 | 15 1 | 2 8 | 11 5 | 1 0 | 22 16 | 0 23 | 21 37 | 0 5 | 5 19 | 2 47 | 14 41 | 0 47 | 8 21 | 2 1 | 2 25 | 12 33 | 22 18 | 22 30 | 14 13 | | | n.a. |
| T 15 | 7 39 | 14 45 | 3 19 | 14 39 | 1 55 | 10 43 | 1 4 | 22 19 | 0 25 | 21 39 | 0 5 | 5 17 | 2 47 | 14 41 | 0 47 | 8 20 | 2 1 | 2 25 | 12 33 | 22 17 | 22 30 | 14 10 | | | n.a. |
| W16 | 8 2 | 18 15 | 2 21 | 14 10 | 1 41 | 10 21 | 1 7 | 22 21 | 0 28 | 21 41 | 0 5 | 5 15 | 2 47 | 14 42 | 0 47 | 8 20 | 2 1 | 2 24 | 12 33 | 22 16 | 22 30 | 14 8 | | | n.a. |
| T 17 | 8 25 | 20 50 | 1 13 | 13 37 | 1 24 | 9 58 | 1 11 | 22 23 | 0 30 | 21 43 | 0 5 | 5 13 | 2 47 | 14 42 | 0 47 | 8 19 | 2 1 | 2 24 | 12 33 | 22 16 | 22 29 | 14 6 | | | n.a. |
| F 18 | 8 48 | 22 15 | 0 1 | 12 59 | 1 7 | 9 35 | 1 14 | 22 25 | 0 32 | 21 45 | 0 5 | 5 11 | 2 47 | 14 42 | 0 47 | 8 18 | 2 1 | 2 24 | 12 34 | 22 16 | 22 29 | 14 4 | | | n.a. |
| S 19 | 9 11 | 22 22 | 1n12 | 12 17 | 0 48 | 9 12 | 1 17 | 22 26 | 0 35 | 21 47 | 0 5 | 5 9 | 2 47 | 14 42 | 0 47 | 8 18 | 2 1 | 2 23 | 12 34 | 22 16 | 22 28 | 14 2 | | | n.a. |
| S 20 | 9 33 | 21 6 | 2 22 | 11 31 | 0 28 | 8 48 | 1 20 | 22 28 | 0 38 | 21 49 | 0 5 | 5 8 | 2 47 | 14 43 | 0 47 | 8 17 | 2 1 | 2 23 | 12 34 | 22 16 | 22 28 | 13 59 | | | n.a. |
| M21 | 9 56 | 18 33 | 3 25 | 10 43 | 0 7 | 8 24 | 1 24 | 22 30 | 0 40 | 21 52 | 0 5 | 5 6 | 2 47 | 14 43 | 0 47 | 8 17 | 2 1 | 2 22 | 12 34 | 22 16 | 22 27 | 13 57 | | | n.a. |
| T 22 | 10 18 | 14 52 | 4 15 | 9 54 | 0n13 | 8 0 | 1 26 | 22 31 | 0 43 | 21 54 | 0 4 | 5 4 | 2 47 | 14 43 | 0 47 | 8 16 | 2 1 | 2 22 | 12 34 | 22 16 | 22 27 | 13 55 | | | n.a. |
| W23 | 10 40 | 10 19 | 4 50 | 9 5 | 0 34 | 7 35 | 1 29 | 22 33 | 0 45 | 21 56 | 0 4 | 5 2 | 2 47 | 14 43 | 0 47 | 8 15 | 2 1 | 2 22 | 12 34 | 22 16 | 22 27 | 13 53 | | | n.a. |
| T 24 | 11 2 | 5 11 | 5 8 | 8 19 | 0 53 | 7 11 | 1 32 | 22 34 | 0 48 | 21 58 | 0 4 | 5 1 | 2 47 | 14 43 | 0 47 | 8 15 | 2 1 | 2 21 | 12 34 | 22 15 | 22 26 | 13 51 | | | n.a. |
| F 25 | 11 24 | 0n14 | 5 6 | 7 35 | 1 12 | 6 45 | 1 35 | 22 35 | 0 51 | 22 0 | 0 4 | 4 59 | 2 47 | 14 44 | 0 47 | 8 14 | 2 1 | 2 21 | 12 34 | 22 14 | 22 26 | 13 48 | | | n.a. |
| S 26 | 11 46 | 5 36 | 4 45 | 6 56 | 1 28 | 6 20 | 1 37 | 22 36 | 0 53 | 22 2 | 0 4 | 4 57 | 2 46 | 14 44 | 0 47 | 8 13 | 2 1 | 2 21 | 12 34 | 22 14 | 22 25 | 13 46 | | | n.a. |
| S 27 | 12 7 | 10 38 | 4 7 | 6 23 | 1 43 | 5 54 | 1 39 | 22 36 | 0 56 | 22 4 | 0 4 | 4 55 | 2 46 | 14 44 | 0 47 | 8 13 | 2 1 | 2 20 | 12 34 | 22 13 | 22 25 | 13 44 | | | n.a. |
| M28 | 12 28 | 15 2 | 3 15 | 5 55 | 1 56 | 5 28 | 1 42 | 22 37 | 0 59 | 22 6 | 0 4 | 4 54 | 2 46 | 14 44 | 0 47 | 8 12 | 2 1 | 2 20 | 12 34 | 22 12 | 22 24 | 13 42 | | | n.a. |
| T 29 | 12 49 | 18 32 | 2 13 | 5 33 | 2 7 | 5 2 | 1 44 | 22 38 | 1 1 | 22 8 | 0 4 | 4 52 | 2 46 | 14 44 | 0 47 | 8 12 | 2 1 | 2 20 | 12 34 | 22 11 | 22 24 | 13 39 | | | n.a. |
| W30 | 13 10 | 20 58 | 1 5 | 5 18 | 2 16 | 4 36 | 1 46 | 22 38 | 1 4 | 22 10 | 0 4 | 4 50 | 2 46 | 14 44 | 0 47 | 8 11 | 2 1 | 2 19 | 12 34 | 22 11 | 22 23 | 13 37 | | | n.a. |
| T 31 | 13s31 | 22n14 | 0s 5 | 5s 9 | 2n23 | 4n 9 | 1n48 | 22n38 | 1n 7 | 22s12 | 0n 3 | 4n49 | 2s46 | 14s44 | 0s47 | 8n10 | 2s 1 | 2n19 | 12s34 | 22s11 | 22s23 | 13n35 | | | n.a. |

Julian Day Number = 1687728.5, Delta T = 03h12m07s
Ecliptic obliquity = 23°42'20, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°20'19, Lahiri = - 5°13'19 Julian Calendar 1 Oct. 93 BCE == Greg. Calendar 29 Sept. 093 BCE

The year -92 astronomical counting style corresponds to year 093 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 93 BCE
# geocentric

## NOVEMBER 93 BCE (-92) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 2 30 16 | 6♏33'03 | 23♊21 | 18♎37 | 24♍56 | 5°R42 | 10♐34 | 18°R31 | 23°R 0 | 25°R41 | 7°R36 | 9♐53 | 11♐15 | 10♌29 | n.a. | F 1 |
| S 2 | 2 34 12 | 7°34'01 | 5♋38 | 18°51 | 26° 8 | 5♊26 | 10°47 | 18♈26 | 23♒ 0 | 25♈39 | 7♉35 | 9°54 | 11°11 | 10°36 | n.a. | S 2 |
| S 3 | 2 38 9 | 8°35'00 | 17°41 | 19°15 | 27°19 | 5° 9 | 10°59 | 18°22 | 23° 0 | 25°38 | 7°34 | 9°56 | 11° 8 | 10°43 | n.a. | S 3 |
| M 4 | 2 42 5 | 9°36'00 | 29°36 | 19°46 | 28°30 | 4°52 | 11°12 | 18°17 | 22°59 | 25°36 | 7°32 | 9°58 | 11° 5 | 10°49 | n.a. | M 4 |
| T 5 | 2 46 2 | 10°37'02 | 11♌28 | 20°25 | 29°42 | 4°34 | 11°25 | 18°13 | 22°D59 | 25°35 | 7°31 | 9°R58 | 11° 2 | 10°56 | n.a. | T 5 |
| W 6 | 2 49 59 | 11°38'05 | 23°20 | 21°11 | 0♎54 | 4°15 | 11°38 | 18° 9 | 22°59 | 25°33 | 7°30 | 9°57 | 10°59 | 11° 3 | n.a. | W 6 |
| T 7 | 2 53 55 | 12°39'09 | 5♍18 | 22° 3 | 2° 5 | 3°56 | 11°51 | 18° 4 | 23° 0 | 25°31 | 7°29 | 9°55 | 10°56 | 11° 9 | n.a. | T 7 |
| F 8 | 2 57 52 | 13°40'15 | 17°27 | 22°59 | 3°17 | 3°36 | 12° 4 | 18° 0 | 23° 0 | 25°30 | 7°28 | 9°52 | 10°52 | 11°16 | n.a. | F 8 |
| S 9 | 3 1 48 | 14°41'21 | 29°51 | 24° 1 | 4°29 | 3°16 | 12°18 | 17°56 | 23° 0 | 25°28 | 7°27 | 9°48 | 10°49 | 11°23 | n.a. | S 9 |
| S 10 | 3 5 45 | 15°42'29 | 12♎31 | 25° 6 | 5°41 | 2°55 | 12°31 | 17°52 | 23° 0 | 25°26 | 7°26 | 9°44 | 10°46 | 11°30 | n.a. | S 10 |
| M11 | 3 9 41 | 16°43'37 | 25°29 | 26°15 | 6°53 | 2°33 | 12°44 | 17°48 | 23° 0 | 25°25 | 7°24 | 9°40 | 10°43 | 11°36 | n.a. | M11 |
| T 12 | 3 13 38 | 17°44'47 | 8♏46 | 27°26 | 8° 6 | 2°11 | 12°57 | 17°44 | 23° 1 | 25°23 | 7°23 | 9°37 | 10°40 | 11°43 | n.a. | T 12 |
| W13 | 3 17 34 | 18°45'57 | 22°20 | 28°40 | 9°18 | 1°49 | 13°11 | 17°40 | 23° 1 | 25°22 | 7°22 | 9°35 | 10°37 | 11°50 | n.a. | W13 |
| T 14 | 3 21 31 | 19°47'08 | 6♐ 9 | 29°57 | 10°31 | 1°26 | 13°24 | 17°36 | 23° 2 | 25°20 | 7°21 | 9°D34 | 10°33 | 11°56 | n.a. | T 14 |
| F 15 | 3 25 28 | 20°48'20 | 20°10 | 1♏15 | 11°43 | 1° 3 | 13°38 | 17°33 | 23° 2 | 25°19 | 7°20 | 9°34 | 10°30 | 12° 3 | n.a. | F 15 |
| S 16 | 3 29 24 | 21°49'32 | 4♑19 | 2°35 | 12°56 | 0°40 | 13°51 | 17°29 | 23° 3 | 25°17 | 7°19 | 9°35 | 10°27 | 12°10 | n.a. | S 16 |
| S 17 | 3 33 21 | 22°50'45 | 18°33 | 3°56 | 14° 8 | 0°16 | 14° 5 | 17°26 | 23° 3 | 25°16 | 7°18 | 9°37 | 10°24 | 12°16 | n.a. | S 17 |
| M18 | 3 37 17 | 23°51'57 | 2♒47 | 5°19 | 15°21 | 29♉53 | 14°18 | 17°22 | 23° 4 | 25°14 | 7°17 | 9°38 | 10°21 | 12°23 | n.a. | M18 |
| T 19 | 3 41 14 | 24°53'10 | 17° 1 | 6°43 | 16°34 | 29°29 | 14°32 | 17°19 | 23° 5 | 25°13 | 7°16 | 9°39 | 10°17 | 12°30 | n.a. | T 19 |
| W20 | 3 45 10 | 25°54'24 | 1♓11 | 8° 8 | 17°47 | 29° 5 | 14°45 | 17°15 | 23° 6 | 25°12 | 7°14 | 9°R39 | 10°14 | 12°37 | n.a. | W20 |
| T 21 | 3 49 7 | 26°55'37 | 15°15 | 9°33 | 19° 0 | 28°41 | 14°59 | 17°12 | 23° 6 | 25°10 | 7°13 | 9°38 | 10°11 | 12°43 | n.a. | T 21 |
| F 22 | 3 53 3 | 27°56'50 | 29°11 | 11° 0 | 20°13 | 28°17 | 15°13 | 17° 9 | 23° 7 | 25° 9 | 7°12 | 9°37 | 10° 8 | 12°50 | n.a. | F 22 |
| S 23 | 3 57 0 | 28°58'03 | 12♈59 | 12°27 | 21°26 | 27°54 | 15°26 | 17° 6 | 23° 8 | 25° 7 | 7°11 | 9°36 | 10° 5 | 12°57 | n.a. | S 23 |
| S 24 | 4 0 57 | 29°59'17 | 26°36 | 13°55 | 22°39 | 27°30 | 15°40 | 17° 3 | 23° 9 | 25° 6 | 7°10 | 9°34 | 10° 2 | 13° 3 | n.a. | S 24 |
| M25 | 4 4 53 | 1♐ 0'31 | 10♉ 0 | 15°23 | 23°52 | 27° 7 | 15°54 | 17° 0 | 23°10 | 25° 5 | 7° 9 | 9°33 | 9°58 | 13°10 | n.a. | M25 |
| T 26 | 4 8 50 | 2° 1'45 | 23°10 | 16°52 | 25° 5 | 26°43 | 16° 8 | 16°58 | 23°11 | 25° 3 | 7° 8 | 9°32 | 9°55 | 13°17 | n.a. | T 26 |
| W27 | 4 12 46 | 3° 2'59 | 6♊ 6 | 18°21 | 26°18 | 26°21 | 16°22 | 16°55 | 23°12 | 25° 2 | 7° 7 | 9°D32 | 9°52 | 13°24 | n.a. | W27 |
| T 28 | 4 16 43 | 4° 4'13 | 18°47 | 19°51 | 27°32 | 25°58 | 16°35 | 16°52 | 23°14 | 25° 1 | 7° 6 | 9°32 | 9°49 | 13°30 | n.a. | T 28 |
| F 29 | 4 20 39 | 5° 5'27 | 1♋13 | 21°21 | 28°45 | 25°36 | 16°49 | 16°50 | 23°15 | 25° 0 | 7° 5 | 9°32 | 9°46 | 13°37 | n.a. | F 29 |
| S 30 | 4 24 36 | 6♐ 6'42 | 13♋27 | 22♏51 | 29♎59 | 25♉14 | 17♐ 3 | 16♈48 | 23♒16 | 24♈59 | 7♉ 4 | 9♐33 | 9♐42 | 13♌44 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 13s51 | 22n19 | 1s13 | 5s 6 | 2n28 | 3n42 | 1n50 | 22n38 | 1n10 | 22s13 | 0n 3 | 4n47 | 2s46 | 14s44 | 0s47 | 8n10 | 2s 1 | 2n19 | 12s34 | 22s11 | 22s23 | 13n33 | | n.a. |
| S 2 | 14 11 | 21 19 | 2 16 | 5 8 | 2 31 | 3 15 | 1 51 | 22 38 | 1 12 | 22 15 | 0 3 | 4 45 | 2 46 | 14 44 | 0 47 | 8 9 | 2 1 | 2 18 | 12 34 | 22 11 | 22 22 | 13 31 | | n.a. |
| S 3 | 14 31 | 19 21 | 3 12 | 5 15 | 2 33 | 2 48 | 1 53 | 22 38 | 1 15 | 22 17 | 0 3 | 4 44 | 2 45 | 14 44 | 0 47 | 8 9 | 2 1 | 2 18 | 12 33 | 22 11 | 22 22 | 13 28 | | n.a. |
| M 4 | 14 51 | 16 34 | 3 59 | 5 27 | 2 34 | 2 21 | 1 55 | 22 37 | 1 18 | 22 19 | 0 3 | 4 42 | 2 45 | 14 44 | 0 47 | 8 8 | 2 1 | 2 18 | 12 33 | 22 11 | 22 21 | 13 26 | | n.a. |
| T 5 | 15 10 | 13 7 | 4 36 | 5 42 | 2 33 | 1 53 | 1 56 | 22 37 | 1 21 | 22 21 | 0 3 | 4 41 | 2 45 | 14 44 | 0 47 | 8 7 | 2 1 | 2 17 | 12 33 | 22 12 | 22 21 | 13 24 | | n.a. |
| W 6 | 15 30 | 9 10 | 5 1 | 6 1 | 2 32 | 1 26 | 1 57 | 22 36 | 1 23 | 22 23 | 0 3 | 4 39 | 2 45 | 14 44 | 0 46 | 8 7 | 2 1 | 2 17 | 12 33 | 22 11 | 22 20 | 13 22 | | n.a. |
| T 7 | 15 48 | 4 49 | 5 13 | 6 22 | 2 29 | 0 58 | 1 58 | 22 35 | 1 26 | 22 25 | 0 3 | 4 38 | 2 45 | 14 44 | 0 46 | 8 6 | 2 1 | 2 17 | 12 33 | 22 11 | 22 20 | 13 19 | | n.a. |
| F 8 | 16 7 | 0 15 | 5 11 | 6 47 | 2 26 | 0 30 | 2 0 | 22 34 | 1 29 | 22 27 | 0 3 | 4 36 | 2 45 | 14 44 | 0 46 | 8 6 | 2 1 | 2 16 | 12 33 | 22 11 | 22 19 | 13 17 | | n.a. |
| S 9 | 16 25 | 4s26 | 4 55 | 7 13 | 2 22 | 0 2 | 2 1 | 22 32 | 1 31 | 22 29 | 0 2 | 4 35 | 2 44 | 14 44 | 0 46 | 8 5 | 2 1 | 2 16 | 12 33 | 22 10 | 22 19 | 13 15 | | n.a. |
| S 10 | 16 43 | 9 2 | 4 24 | 7 41 | 2 17 | 0s26 | 2 1 | 22 31 | 1 34 | 22 31 | 0 2 | 4 34 | 2 44 | 14 44 | 0 46 | 8 5 | 2 1 | 2 16 | 12 33 | 22 9 | 22 19 | 13 13 | | n.a. |
| M11 | 17 1 | 13 21 | 3 39 | 8 11 | 2 12 | 0 54 | 2 2 | 22 29 | 1 37 | 22 32 | 0 2 | 4 32 | 2 44 | 14 44 | 0 46 | 8 4 | 2 0 | 2 16 | 12 33 | 22 9 | 22 18 | 13 10 | | n.a. |
| T 12 | 17 19 | 17 8 | 2 42 | 8 42 | 2 7 | 1 22 | 2 3 | 22 27 | 1 39 | 22 34 | 0 2 | 4 31 | 2 44 | 14 43 | 0 46 | 8 4 | 2 0 | 2 15 | 12 33 | 22 8 | 22 18 | 13 8 | | n.a. |
| W13 | 17 36 | 20 4 | 1 34 | 9 14 | 2 1 | 1 50 | 2 3 | 22 25 | 1 42 | 22 36 | 0 2 | 4 30 | 2 44 | 14 43 | 0 46 | 8 3 | 2 0 | 2 15 | 12 33 | 22 8 | 22 17 | 13 6 | | n.a. |
| T 14 | 17 53 | 21 53 | 0 19 | 9 47 | 1 55 | 2 19 | 2 4 | 22 23 | 1 44 | 22 38 | 0 2 | 4 28 | 2 43 | 14 43 | 0 46 | 8 3 | 2 0 | 2 15 | 12 33 | 22 8 | 22 17 | 13 4 | | n.a. |
| F 15 | 18 9 | 22 22 | 0n58 | 10 21 | 1 48 | 2 47 | 2 4 | 22 21 | 1 47 | 22 40 | 0 2 | 4 27 | 2 43 | 14 43 | 0 46 | 8 2 | 2 0 | 2 15 | 12 33 | 22 8 | 22 16 | 13 1 | | n.a. |
| S 16 | 18 25 | 21 26 | 2 13 | 10 55 | 1 42 | 3 15 | 2 4 | 22 18 | 1 49 | 22 41 | 0 2 | 4 26 | 2 43 | 14 43 | 0 46 | 8 1 | 2 0 | 2 14 | 12 33 | 22 8 | 22 16 | 12 59 | | n.a. |
| S 17 | 18 41 | 19 7 | 3 19 | 11 29 | 1 35 | 3 43 | 2 5 | 22 15 | 1 52 | 22 43 | 0 2 | 4 25 | 2 43 | 14 42 | 0 46 | 8 1 | 2 0 | 2 14 | 12 32 | 22 8 | 22 15 | 12 57 | | n.a. |
| M18 | 18 57 | 15 38 | 4 13 | 12 4 | 1 28 | 4 12 | 2 5 | 22 13 | 1 54 | 22 45 | 0 1 | 4 24 | 2 43 | 14 42 | 0 46 | 8 0 | 2 0 | 2 14 | 12 32 | 22 8 | 22 15 | 12 55 | | n.a. |
| T 19 | 19 12 | 11 16 | 4 52 | 12 39 | 1 20 | 4 40 | 2 5 | 22 10 | 1 57 | 22 46 | 0 1 | 4 23 | 2 42 | 14 42 | 0 46 | 8 0 | 2 0 | 2 14 | 12 32 | 22 9 | 22 14 | 12 52 | | n.a. |
| W20 | 19 27 | 6 18 | 5 13 | 13 13 | 1 13 | 5 8 | 2 5 | 22 6 | 1 59 | 22 48 | 0 1 | 4 21 | 2 42 | 14 42 | 0 46 | 7 59 | 2 0 | 2 13 | 12 32 | 22 9 | 22 14 | 12 50 | | n.a. |
| T 21 | 19 41 | 1 3 | 5 15 | 13 48 | 1 6 | 5 36 | 2 4 | 22 3 | 2 1 | 22 50 | 0 1 | 4 20 | 2 42 | 14 41 | 0 46 | 7 59 | 2 0 | 2 13 | 12 32 | 22 9 | 22 13 | 12 48 | | n.a. |
| F 22 | 19 55 | 4n14 | 4 58 | 14 22 | 0 59 | 6 4 | 2 4 | 22 0 | 2 3 | 22 51 | 0 1 | 4 19 | 2 42 | 14 41 | 0 46 | 7 59 | 2 0 | 2 13 | 12 32 | 22 8 | 22 13 | 12 46 | | n.a. |
| S 23 | 20 9 | 9 14 | 4 24 | 14 56 | 0 51 | 6 32 | 2 4 | 21 57 | 2 5 | 22 53 | 0 1 | 4 19 | 2 41 | 14 41 | 0 46 | 7 58 | 2 0 | 2 13 | 12 32 | 22 8 | 22 13 | 12 43 | | n.a. |
| S 24 | 20 22 | 13 43 | 3 36 | 15 30 | 0 44 | 7 0 | 2 3 | 21 53 | 2 7 | 22 55 | 0 1 | 4 18 | 2 41 | 14 40 | 0 46 | 7 58 | 2 0 | 2 12 | 12 32 | 22 8 | 22 12 | 12 41 | | n.a. |
| M25 | 20 35 | 17 27 | 2 37 | 16 3 | 0 37 | 7 28 | 2 2 | 21 50 | 2 9 | 22 56 | 0 1 | 4 17 | 2 41 | 14 40 | 0 46 | 7 57 | 2 0 | 2 12 | 12 31 | 22 8 | 22 12 | 12 39 | | n.a. |
| T 26 | 20 48 | 20 13 | 1 30 | 16 36 | 0 29 | 7 56 | 2 2 | 21 46 | 2 11 | 22 58 | 0 1 | 4 16 | 2 41 | 14 39 | 0 46 | 7 57 | 2 0 | 2 12 | 12 31 | 22 8 | 22 11 | 12 36 | | n.a. |
| W27 | 21 0 | 21 53 | 0 19 | 17 8 | 0 22 | 8 23 | 2 1 | 21 42 | 2 13 | 22 59 | 0 0 | 4 15 | 2 40 | 14 39 | 0 46 | 7 56 | 2 0 | 2 12 | 12 31 | 22 8 | 22 11 | 12 34 | | n.a. |
| T 28 | 21 12 | 22 23 | 0s51 | 17 40 | 0 15 | 8 51 | 2 0 | 21 38 | 2 15 | 23 1 | 0 0 | 4 14 | 2 40 | 14 39 | 0 46 | 7 56 | 2 0 | 2 12 | 12 31 | 22 8 | 22 10 | 12 32 | | n.a. |
| F 29 | 21 23 | 21 44 | 1 57 | 18 11 | 0 8 | 9 18 | 1 59 | 21 35 | 2 16 | 23 2 | 0 0 | 4 14 | 2 40 | 14 38 | 0 46 | 7 55 | 2 0 | 2 12 | 12 31 | 22 8 | 22 10 | 12 30 | | n.a. |
| S 30 | 21s34 | 20n 5 | 2s57 | 18s41 | 0n 0 | 9s45 | 1n58 | 21n31 | 2n18 | 23s 4 | 0n 0 | 4n13 | 2s40 | 14s38 | 0s46 | 7n55 | 2s 0 | 2n11 | 12s31 | 22s 8 | 22s 9 | 12n27 | | n.a. |

Julian Day Number = 1687759.5, Delta T = 03h12m06s
Ecliptic obliquity = 23°42'20, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°20'15, Lahiri = - 5°13'14 Julian Calendar 1 Nov. 93 BCE == Greg. Calendar 30 Oct. 093 BCE


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# ASTRODIENST EPHEMERIS for the year 93 BCE
# geocentric

## DECEMBER 93 BCE (-92) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 4 28 33 | 7♐ 7'57 | 25♋29 | 24♏22 | 1♏12 | 24°R52 | 17♐17 | 16°R45 | 23♒17 | 24°R57 | 7°R 3 | 9♐33 | 9♐39 | 13♌50 | n.a. | S 1 |
| M 2 | 4 32 29 | 8° 9'12 | 7♌25 | 25°53 | 2°26 | 24♑31 | 17°31 | 16♈43 | 23°19 | 24♈56 | 7♑ 2 | 9°33 | 9°36 | 13°57 | n.a. | M 2 |
| T 3 | 4 36 26 | 9°10'27 | 19°16 | 27°25 | 3°39 | 24°11 | 17°45 | 16°41 | 23°20 | 24°55 | 7° 1 | 9°R33 | 9°33 | 14° 4 | n.a. | T 3 |
| W 4 | 4 40 22 | 10°11'43 | 1♍ 9 | 28°57 | 4°53 | 23°51 | 17°59 | 16°39 | 23°22 | 24°54 | 7° 0 | 9°33 | 9°30 | 14°11 | n.a. | W 4 |
| T 5 | 4 44 19 | 11°12'58 | 13° 6 | 0♐29 | 6° 7 | 23°32 | 18°13 | 16°37 | 23°23 | 24°53 | 6°59 | 9°D33 | 9°27 | 14°17 | n.a. | T 5 |
| F 6 | 4 48 15 | 12°14'14 | 25°13 | 2° 2 | 7°20 | 23°13 | 18°27 | 16°36 | 23°25 | 24°52 | 6°58 | 9°34 | 9°23 | 14°24 | n.a. | F 6 |
| S 7 | 4 52 12 | 13°15'29 | 7♎34 | 3°35 | 8°34 | 22°55 | 18°41 | 16°34 | 23°26 | 24°51 | 6°58 | 9°34 | 9°20 | 14°31 | n.a. | S 7 |
| S 8 | 4 56 8 | 14°16'45 | 20°14 | 5° 8 | 9°48 | 22°38 | 18°55 | 16°33 | 23°28 | 24°50 | 6°57 | 9°34 | 9°17 | 14°37 | n.a. | S 8 |
| M 9 | 5 0 5 | 15°18'01 | 3♏16 | 6°42 | 11° 2 | 22°21 | 19° 9 | 16°31 | 23°30 | 24°49 | 6°56 | 9°35 | 9°14 | 14°44 | n.a. | M 9 |
| T 10 | 5 4 2 | 16°19'16 | 16°41 | 8°16 | 12°15 | 22° 5 | 19°23 | 16°30 | 23°31 | 24°48 | 6°55 | 9°35 | 9°11 | 14°51 | n.a. | T 10 |
| W11 | 5 7 58 | 17°20'32 | 0♐29 | 9°51 | 13°29 | 21°50 | 19°37 | 16°29 | 23°33 | 24°47 | 6°54 | 9°36 | 9° 8 | 14°58 | n.a. | W11 |
| T 12 | 5 11 55 | 18°21'47 | 14°39 | 11°26 | 14°43 | 21°35 | 19°51 | 16°28 | 23°35 | 24°46 | 6°53 | 9°R36 | 9° 4 | 15° 4 | n.a. | T 12 |
| F 13 | 5 15 51 | 19°23'02 | 29° 6 | 13° 2 | 15°57 | 21°22 | 20° 5 | 16°27 | 23°37 | 24°45 | 6°52 | 9°35 | 9° 1 | 15°11 | n.a. | F 13 |
| S 14 | 5 19 48 | 20°24'16 | 13♑45 | 14°38 | 17°11 | 21° 9 | 20°19 | 16°26 | 23°39 | 24°45 | 6°52 | 9°34 | 8°58 | 15°18 | n.a. | S 14 |
| S 15 | 5 23 44 | 21°25'29 | 28°28 | 16°14 | 18°25 | 20°56 | 20°33 | 16°25 | 23°41 | 24°44 | 6°51 | 9°33 | 8°55 | 15°24 | n.a. | S 15 |
| M16 | 5 27 41 | 22°26'42 | 13♒ 9 | 17°51 | 19°39 | 20°45 | 20°48 | 16°25 | 23°43 | 24°43 | 6°50 | 9°32 | 8°52 | 15°31 | n.a. | M16 |
| T 17 | 5 31 37 | 23°27'54 | 27°42 | 19°28 | 20°53 | 20°35 | 21° 2 | 16°24 | 23°45 | 24°42 | 6°49 | 9°30 | 8°48 | 15°38 | n.a. | T 17 |
| W18 | 5 35 34 | 24°29'05 | 12♓ 1 | 21° 6 | 22° 7 | 20°25 | 21°16 | 16°24 | 23°47 | 24°42 | 6°49 | 9°29 | 8°45 | 15°45 | n.a. | W18 |
| T 19 | 5 39 31 | 25°30'15 | 26° 5 | 22°44 | 23°21 | 20°16 | 21°30 | 16°24 | 23°49 | 24°41 | 6°48 | 9°D29 | 8°42 | 15°51 | n.a. | T 19 |
| F 20 | 5 43 27 | 26°31'24 | 9♈51 | 24°23 | 24°35 | 20° 8 | 21°44 | 16°23 | 23°51 | 24°40 | 6°47 | 9°29 | 8°39 | 15°58 | n.a. | F 20 |
| S 21 | 5 47 24 | 27°32'31 | 23°21 | 26° 3 | 25°49 | 20° 1 | 21°58 | 16°D23 | 23°53 | 24°40 | 6°47 | 9°30 | 8°36 | 16° 5 | n.a. | S 21 |
| S 22 | 5 51 20 | 28°33'38 | 6♉35 | 27°43 | 27° 4 | 19°54 | 22°12 | 16°23 | 23°56 | 24°39 | 6°46 | 9°32 | 8°33 | 16°11 | n.a. | S 22 |
| M23 | 5 55 17 | 29°34'44 | 19°35 | 29°24 | 28°18 | 19°49 | 22°26 | 16°24 | 23°58 | 24°39 | 6°45 | 9°33 | 8°29 | 16°18 | n.a. | M23 |
| T 24 | 5 59 13 | 0♑35'49 | 2♊21 | 1♑ 5 | 29°32 | 19°44 | 22°40 | 16°24 | 24° 0 | 24°38 | 6°45 | 9°34 | 8°26 | 16°25 | n.a. | T 24 |
| W25 | 6 3 10 | 1°36'53 | 14°56 | 2°47 | 0♐46 | 19°40 | 22°54 | 16°24 | 24° 3 | 24°38 | 6°44 | 9°R34 | 8°23 | 16°32 | n.a. | W25 |
| T 26 | 6 7 6 | 2°37'55 | 27°20 | 4°29 | 2° 0 | 19°37 | 23° 8 | 16°25 | 24° 5 | 24°37 | 6°43 | 9°33 | 8°20 | 16°38 | n.a. | T 26 |
| F 27 | 6 11 3 | 3°38'57 | 9♋34 | 6°12 | 3°14 | 19°34 | 23°22 | 16°26 | 24° 7 | 24°37 | 6°43 | 9°31 | 8°17 | 16°45 | n.a. | F 27 |
| S 28 | 6 15 0 | 4°39'58 | 21°40 | 7°56 | 4°29 | 19°33 | 23°36 | 16°26 | 24°10 | 24°36 | 6°42 | 9°27 | 8°14 | 16°52 | n.a. | S 28 |
| S 29 | 6 18 56 | 5°40'58 | 3♌39 | 9°40 | 5°43 | 19°32 | 23°50 | 16°27 | 24°12 | 24°36 | 6°42 | 9°22 | 8°10 | 16°58 | n.a. | S 29 |
| M30 | 6 22 53 | 6°41'57 | 15°33 | 11°24 | 6°57 | 19°D32 | 24° 4 | 16°28 | 24°15 | 24°36 | 6°41 | 9°17 | 8° 7 | 17° 5 | n.a. | M30 |
| T 31 | 6 26 49 | 7♑42'55 | 27♌25 | 13♑ 9 | 8♐11 | 19♑32 | 24♐17 | 16♈29 | 24♒18 | 24♈36 | 6♑41 | 9♐13 | 8♐ 4 | 17♌12 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| S 1 | 21 s45 | 17n32 | 3 s48 | 19 s11 | 0 s 6 | 10 s12 | 1n57 | 21n27 | 2n20 | 23 s 5 | 0n 0 | 4n12 | 2 s39 | 14 s37 | 0 s46 | 7n55 | 2 s 0 | 2n11 | 12 s31 | 22 s 8 | 22 s 9 | 12n25 | | | n.a. |
| M 2 | 21 55 | 14 17 | 4 29 | 19 40 | 0 13 | 10 38 | 1 56 | 21 23 | 2 21 | 23 7 | 0 s 0 | 4 12 | 2 39 | 14 37 | 0 45 | 7 54 | 2 0 | 2 11 | 12 30 | 22 8 | 22 8 | 12 23 | | | n.a. |
| T 3 | 22 4 | 10 29 | 4 58 | 20 8 | 0 20 | 11 5 | 1 55 | 21 19 | 2 22 | 23 8 | 0 0 | 4 11 | 2 39 | 14 36 | 0 45 | 7 54 | 2 0 | 2 11 | 12 30 | 22 8 | 22 8 | 12 21 | | | n.a. |
| W 4 | 22 14 | 6 18 | 5 14 | 20 35 | 0 27 | 11 31 | 1 53 | 21 16 | 2 24 | 23 10 | 0 0 | 4 11 | 2 38 | 14 36 | 0 45 | 7 54 | 2 0 | 2 11 | 12 30 | 22 8 | 22 7 | 12 18 | | | n.a. |
| T 5 | 22 22 | 1 50 | 5 17 | 21 1 | 0 33 | 11 57 | 1 52 | 21 12 | 2 25 | 23 11 | 0 0 | 4 10 | 2 38 | 14 35 | 0 45 | 7 53 | 1 59 | 2 11 | 12 30 | 22 8 | 22 7 | 12 16 | | | n.a. |
| F 6 | 22 31 | 2 s45 | 5 6 | 21 27 | 0 40 | 12 22 | 1 50 | 21 8 | 2 26 | 23 12 | 0 0 | 4 10 | 2 38 | 14 35 | 0 45 | 7 53 | 1 59 | 2 11 | 12 30 | 22 8 | 22 6 | 12 14 | | | n.a. |
| S 7 | 22 39 | 7 19 | 4 40 | 21 51 | 0 46 | 12 48 | 1 49 | 21 5 | 2 27 | 23 14 | 0 1 | 4 10 | 2 38 | 14 34 | 0 45 | 7 53 | 1 59 | 2 11 | 12 29 | 22 8 | 22 6 | 12 11 | | | n.a. |
| S 8 | 22 46 | 11 42 | 4 1 | 22 15 | 0 52 | 13 13 | 1 47 | 21 1 | 2 28 | 23 15 | 0 1 | 4 9 | 2 37 | 14 33 | 0 45 | 7 52 | 1 59 | 2 10 | 12 29 | 22 8 | 22 5 | 12 9 | | | n.a. |
| M 9 | 22 53 | 15 41 | 3 8 | 22 37 | 0 58 | 13 38 | 1 46 | 20 58 | 2 29 | 23 16 | 0 1 | 4 9 | 2 37 | 14 33 | 0 45 | 7 52 | 1 59 | 2 10 | 12 29 | 22 8 | 22 5 | 12 7 | | | n.a. |
| T 10 | 23 0 | 18 59 | 2 4 | 22 58 | 1 4 | 14 2 | 1 44 | 20 54 | 2 30 | 23 17 | 0 1 | 4 9 | 2 37 | 14 32 | 0 45 | 7 52 | 1 59 | 2 10 | 12 29 | 22 8 | 22 4 | 12 5 | | | n.a. |
| W11 | 23 6 | 21 18 | 0 50 | 23 19 | 1 9 | 14 26 | 1 42 | 20 51 | 2 31 | 23 19 | 0 1 | 4 9 | 2 36 | 14 32 | 0 45 | 7 51 | 1 59 | 2 10 | 12 29 | 22 8 | 22 4 | 12 2 | | | n.a. |
| T 12 | 23 11 | 22 21 | 0n28 | 23 38 | 1 14 | 14 50 | 1 40 | 20 48 | 2 32 | 23 20 | 0 1 | 4 9 | 2 36 | 14 31 | 0 45 | 7 51 | 1 59 | 2 10 | 12 28 | 22 8 | 22 3 | 12 0 | | | n.a. |
| F 13 | 23 17 | 21 56 | 1 46 | 23 56 | 1 19 | 15 14 | 1 38 | 20 45 | 2 33 | 23 21 | 0 1 | 4 9 | 2 36 | 14 30 | 0 45 | 7 51 | 1 59 | 2 10 | 12 28 | 22 8 | 22 3 | 11 58 | | | n.a. |
| S 14 | 23 21 | 20 2 | 2 58 | 24 12 | 1 24 | 15 37 | 1 36 | 20 42 | 2 33 | 23 22 | 0 1 | 4 9 | 2 35 | 14 30 | 0 45 | 7 51 | 1 59 | 2 10 | 12 28 | 22 8 | 22 2 | 11 55 | | | n.a. |
| S 15 | 23 25 | 16 48 | 3 59 | 24 28 | 1 29 | 16 0 | 1 34 | 20 40 | 2 34 | 23 23 | 0 1 | 4 9 | 2 35 | 14 29 | 0 45 | 7 50 | 1 59 | 2 10 | 12 28 | 22 8 | 22 2 | 11 53 | | | n.a. |
| M16 | 23 29 | 12 31 | 4 44 | 24 42 | 1 33 | 16 22 | 1 32 | 20 37 | 2 34 | 23 24 | 0 2 | 4 9 | 2 35 | 14 28 | 0 45 | 7 50 | 1 59 | 2 10 | 12 28 | 22 8 | 22 1 | 11 51 | | | n.a. |
| T 17 | 23 32 | 7 34 | 5 10 | 24 54 | 1 38 | 16 44 | 1 30 | 20 35 | 2 35 | 23 25 | 0 2 | 4 9 | 2 35 | 14 28 | 0 45 | 7 50 | 1 59 | 2 10 | 12 27 | 22 7 | 22 1 | 11 49 | | | n.a. |
| W18 | 23 35 | 2 16 | 5 16 | 25 5 | 1 41 | 17 5 | 1 28 | 20 32 | 2 35 | 23 27 | 0 2 | 4 9 | 2 34 | 14 27 | 0 45 | 7 50 | 1 59 | 2 10 | 12 27 | 22 7 | 22 0 | 11 46 | | | n.a. |
| T 19 | 23 38 | 3n 3 | 5 3 | 25 15 | 1 45 | 17 26 | 1 26 | 20 30 | 2 36 | 23 28 | 0 2 | 4 9 | 2 34 | 14 26 | 0 45 | 7 50 | 1 59 | 2 10 | 12 27 | 22 7 | 22 0 | 11 44 | | | n.a. |
| F 20 | 23 40 | 8 7 | 4 33 | 25 23 | 1 48 | 17 47 | 1 23 | 20 29 | 2 36 | 23 29 | 0 2 | 4 9 | 2 34 | 14 25 | 0 45 | 7 49 | 1 59 | 2 10 | 12 27 | 22 7 | 21 59 | 11 42 | | | n.a. |
| S 21 | 23 41 | 12 42 | 3 48 | 25 30 | 1 51 | 18 7 | 1 21 | 20 27 | 2 36 | 23 30 | 0 2 | 4 10 | 2 33 | 14 25 | 0 45 | 7 49 | 1 59 | 2 10 | 12 26 | 22 7 | 21 59 | 11 39 | | | n.a. |
| S 22 | 23 42 | 16 34 | 2 52 | 25 35 | 1 54 | 18 27 | 1 19 | 20 25 | 2 37 | 23 30 | 0 2 | 4 10 | 2 33 | 14 24 | 0 45 | 7 49 | 1 58 | 2 10 | 12 26 | 22 8 | 21 58 | 11 37 | | | n.a. |
| M23 | 23 42 | 19 33 | 1 48 | 25 39 | 1 56 | 18 46 | 1 16 | 20 24 | 2 37 | 23 31 | 0 2 | 4 10 | 2 33 | 14 23 | 0 45 | 7 49 | 1 58 | 2 10 | 12 26 | 22 8 | 21 58 | 11 35 | | | n.a. |
| T 24 | 23 42 | 21 31 | 0 40 | 25 40 | 1 58 | 19 4 | 1 14 | 20 23 | 2 37 | 23 32 | 0 2 | 4 11 | 2 32 | 14 22 | 0 45 | 7 49 | 1 58 | 2 10 | 12 26 | 22 8 | 21 57 | 11 32 | | | n.a. |
| W25 | 23 42 | 22 21 | 0 s30 | 25 41 | 2 0 | 19 23 | 1 11 | 20 22 | 2 37 | 23 33 | 0 2 | 4 11 | 2 32 | 14 21 | 0 45 | 7 49 | 1 58 | 2 10 | 12 25 | 22 8 | 21 57 | 11 30 | | | n.a. |
| T 26 | 23 41 | 22 4 | 1 36 | 25 39 | 2 1 | 19 40 | 1 9 | 20 21 | 2 37 | 23 34 | 0 3 | 4 12 | 2 32 | 14 21 | 0 45 | 7 49 | 1 58 | 2 10 | 12 25 | 22 8 | 21 56 | 11 28 | | | n.a. |
| F 27 | 23 39 | 20 44 | 2 38 | 25 35 | 2 2 | 19 57 | 1 6 | 20 20 | 2 37 | 23 35 | 0 3 | 4 12 | 2 31 | 14 20 | 0 45 | 7 49 | 1 58 | 2 10 | 12 25 | 22 7 | 21 56 | 11 25 | | | n.a. |
| S 28 | 23 37 | 18 28 | 3 31 | 25 30 | 2 2 | 20 14 | 1 4 | 20 20 | 2 37 | 23 36 | 0 3 | 4 13 | 2 31 | 14 19 | 0 45 | 7 49 | 1 58 | 2 10 | 12 25 | 22 7 | 21 55 | 11 23 | | | n.a. |
| S 29 | 23 35 | 15 26 | 4 14 | 25 23 | 2 2 | 20 30 | 1 1 | 20 20 | 2 37 | 23 36 | 0 3 | 4 13 | 2 31 | 14 18 | 0 45 | 7 48 | 1 58 | 2 10 | 12 24 | 22 6 | 21 55 | 11 21 | | | n.a. |
| M30 | 23 32 | 11 47 | 4 47 | 25 14 | 2 2 | 20 45 | 0 58 | 20 19 | 2 37 | 23 37 | 0 3 | 4 14 | 2 30 | 14 17 | 0 45 | 7 48 | 1 58 | 2 11 | 12 24 | 22 5 | 21 54 | 11 19 | | | n.a. |
| T 31 | 23 s29 | 7n43 | 5 s 6 | 25 s 3 | 2 s 1 | 21 s 0 | 0n56 | 20n20 | 2n37 | 23 s38 | 0 s 3 | 4n15 | 2 s30 | 14 s16 | 0 s45 | 7n48 | 1 s58 | 2n11 | 12 s24 | 22 s 5 | 21 s54 | 11n16 | | | n.a. |

Julian Day Number = 1687789.5, Delta T = 03h12m05s
Ecliptic obliquity = 23°42'19, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°20'11, Lahiri = - 5°13'10 Julian Calendar 1 Dec. 93 BCE == Greg. Calendar 29 Nov. 093 BCE

The year -92 astronomical counting style corresponds to year 093 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 92 BCE
# geocentric

## JANUARY 92 BCE (-91) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 6 30 46 | 8♑43'51 | 9♍17 | 14♑55 | 9♐25 | 19♉34 | 24♐31 | 16♈31 | 24♒20 | 24°R35 | 6°R40 | 9°R 8 | 8♐ 1 | 17♌19 | n.a. | W 1 |
| T 2 | 6 34 42 | 9°44'47 | 21°13 | 16°41 | 10°40 | 19°36 | 24°45 | 16°32 | 24°23 | 24♈35 | 6♉40 | 9♐ 5 | 7°58 | 17°25 | n.a. | T 2 |
| F 3 | 6 38 39 | 10°45'42 | 3♎17 | 18°27 | 11°54 | 19°39 | 24°59 | 16°33 | 24°25 | 24°35 | 6°39 | 9° 3 | 7°54 | 17°32 | n.a. | F 3 |
| S 4 | 6 42 36 | 11°46'36 | 15°34 | 20°14 | 13° 8 | 19°42 | 25°13 | 16°35 | 24°28 | 24°35 | 6°39 | 9°D 3 | 7°51 | 17°39 | n.a. | S 4 |
| S 5 | 6 46 32 | 12°47'29 | 28° 8 | 22° 1 | 14°23 | 19°47 | 25°27 | 16°37 | 24°31 | 24°35 | 6°39 | 9° 4 | 7°48 | 17°45 | n.a. | S 5 |
| M 6 | 6 50 29 | 13°48'21 | 11♏ 4 | 23°47 | 15°37 | 19°52 | 25°40 | 16°38 | 24°34 | 24°35 | 6°38 | 9° 6 | 7°45 | 17°52 | n.a. | M 6 |
| T 7 | 6 54 25 | 14°49'12 | 24°26 | 25°34 | 16°51 | 19°57 | 25°54 | 16°40 | 24°36 | 24°D35 | 6°38 | 9° 7 | 7°42 | 17°59 | n.a. | T 7 |
| W 8 | 6 58 22 | 15°50'02 | 8♐15 | 27°20 | 18° 5 | 20° 3 | 26° 8 | 16°42 | 24°39 | 24°35 | 6°38 | 9°R 8 | 7°39 | 18° 6 | n.a. | W 8 |
| T 9 | 7 2 18 | 16°50'51 | 22°31 | 29° 6 | 19°20 | 20°10 | 26°21 | 16°44 | 24°42 | 24°35 | 6°37 | 9° 7 | 7°35 | 18°12 | n.a. | T 9 |
| F 10 | 7 6 15 | 17°51'39 | 7♑12 | 0♒51 | 20°34 | 20°18 | 26°35 | 16°47 | 24°45 | 24°35 | 6°37 | 9° 5 | 7°32 | 18°19 | n.a. | F 10 |
| S 11 | 7 10 11 | 18°52'25 | 22°11 | 2°34 | 21°48 | 20°26 | 26°49 | 16°49 | 24°48 | 24°35 | 6°37 | 9° 0 | 7°29 | 18°26 | n.a. | S 11 |
| S 12 | 7 14 8 | 19°53'09 | 7♒19 | 4°17 | 23° 3 | 20°35 | 27° 2 | 16°51 | 24°51 | 24°35 | 6°37 | 8°54 | 7°26 | 18°32 | n.a. | S 12 |
| M13 | 7 18 5 | 20°53'52 | 22°26 | 5°57 | 24°17 | 20°45 | 27°16 | 16°54 | 24°54 | 24°35 | 6°36 | 8°48 | 7°23 | 18°39 | n.a. | M13 |
| T 14 | 7 22 1 | 21°54'33 | 7♓23 | 7°35 | 25°31 | 20°55 | 27°29 | 16°57 | 24°57 | 24°36 | 6°36 | 8°41 | 7°20 | 18°46 | n.a. | T 14 |
| W15 | 7 25 58 | 22°55'12 | 22° 2 | 9°10 | 26°46 | 21° 5 | 27°43 | 16°59 | 25° 0 | 24°36 | 6°36 | 8°36 | 7°16 | 18°53 | n.a. | W15 |
| T 16 | 7 29 54 | 23°55'50 | 6♈17 | 10°41 | 28° 0 | 21°17 | 27°56 | 17° 2 | 25° 3 | 24°36 | 6°36 | 8°33 | 7°13 | 18°59 | n.a. | T 16 |
| F 17 | 7 33 51 | 24°56'25 | 20° 8 | 12° 9 | 29°14 | 21°28 | 28° 9 | 17° 5 | 25° 6 | 24°36 | 6°36 | 8°D31 | 7°10 | 19° 6 | n.a. | F 17 |
| S 18 | 7 37 47 | 25°56'59 | 3♉34 | 13°31 | 0♑29 | 21°41 | 28°23 | 17° 8 | 25° 9 | 24°37 | 6°36 | 8°31 | 7° 7 | 19°13 | n.a. | S 18 |
| S 19 | 7 41 44 | 26°57'30 | 16°38 | 14°49 | 1°43 | 21°54 | 28°36 | 17°12 | 25°12 | 24°37 | 6°35 | 8°33 | 7° 4 | 19°19 | n.a. | S 19 |
| M20 | 7 45 40 | 27°58'00 | 29°23 | 16° 0 | 2°57 | 22° 7 | 28°49 | 17°15 | 25°15 | 24°38 | 6°35 | 8°34 | 7° 0 | 19°26 | n.a. | M20 |
| T 21 | 7 49 37 | 28°58'28 | 11♊54 | 17° 5 | 4°11 | 22°21 | 29° 2 | 17°18 | 25°18 | 24°38 | 6°35 | 8°R34 | 6°57 | 19°33 | n.a. | T 21 |
| W22 | 7 53 34 | 29°58'53 | 24°12 | 18° 2 | 5°26 | 22°35 | 29°15 | 17°22 | 25°22 | 24°39 | 6°D35 | 8°33 | 6°54 | 19°40 | n.a. | W22 |
| T 23 | 7 57 30 | 0♒59'17 | 6♋21 | 18°51 | 6°40 | 22°50 | 29°28 | 17°25 | 25°25 | 24°39 | 6°35 | 8°29 | 6°51 | 19°46 | n.a. | T 23 |
| F 24 | 8 1 27 | 1°59'39 | 18°24 | 19°32 | 7°54 | 23° 5 | 29°41 | 17°29 | 25°28 | 24°40 | 6°35 | 8°23 | 6°48 | 19°53 | n.a. | F 24 |
| S 25 | 8 5 23 | 2°59'59 | 0♌22 | 20° 4 | 9° 9 | 23°21 | 29°54 | 17°33 | 25°31 | 24°40 | 6°35 | 8°14 | 6°45 | 20° 0 | n.a. | S 25 |
| S 26 | 8 9 20 | 4° 0'17 | 12°16 | 20°26 | 10°23 | 23°38 | 0♑ 7 | 17°36 | 25°34 | 24°41 | 6°35 | 8° 3 | 6°41 | 20° 6 | n.a. | S 26 |
| M27 | 8 13 16 | 5° 0'34 | 24° 9 | 20°38 | 11°37 | 23°54 | 0°20 | 17°40 | 25°38 | 24°42 | 6°36 | 7°52 | 6°38 | 20°13 | n.a. | M27 |
| T 28 | 8 17 13 | 6° 0'48 | 6♍ 1 | 20°R41 | 12°51 | 24°11 | 0°33 | 17°44 | 25°41 | 24°42 | 6°36 | 7°41 | 6°35 | 20°20 | n.a. | T 28 |
| W29 | 8 21 9 | 7° 1'01 | 17°55 | 20°34 | 14° 6 | 24°29 | 0°46 | 17°49 | 25°44 | 24°43 | 6°36 | 7°30 | 6°32 | 20°27 | n.a. | W29 |
| T 30 | 8 25 6 | 8° 1'12 | 29°52 | 20°17 | 15°20 | 24°47 | 0°58 | 17°53 | 25°48 | 24°44 | 6°36 | 7°22 | 6°29 | 20°33 | n.a. | T 30 |
| F 31 | 8 29 3 | 9♒ 1'21 | 11♎57 | 19♒51 | 16♑34 | 25♉ 5 | 1♑11 | 17♈57 | 25♒51 | 24♈45 | 6♉36 | 7♐15 | 6♐26 | 20♌40 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 23s25 | 3n21 | 5s13 | 24s50 | 1s59 | 21s14 | 0n53 | 20n20 | 2n37 | 23s39 | 0s 3 | 4n15 | 2s30 | 14s15 | 0s45 | 7n48 | 1s58 | 2n11 | 12s24 | 22s 4 | 21s53 | 11n14 | | n.a. |
| T 2 | 23 21 | 1s 9 | 5 6 | 24 35 | 1 57 | 21 28 | 0 50 | 20 20 | 2 37 | 23 39 | 0 3 | 4 16 | 2 30 | 14 14 | 0 45 | 7 48 | 1 58 | 2 11 | 12 23 | 22 3 | 21 53 | 11 12 | | n.a. |
| F 3 | 23 16 | 5 40 | 4 45 | 24 19 | 1 55 | 21 41 | 0 47 | 20 21 | 2 37 | 23 40 | 0 3 | 4 17 | 2 29 | 14 13 | 0 44 | 7 48 | 1 58 | 2 11 | 12 23 | 22 3 | 21 52 | 11 9 | | n.a. |
| S 4 | 23 11 | 10 3 | 4 12 | 24 0 | 1 51 | 21 53 | 0 45 | 20 22 | 2 36 | 23 41 | 0 4 | 4 18 | 2 29 | 14 13 | 0 44 | 7 48 | 1 58 | 2 11 | 12 23 | 22 3 | 21 52 | 11 7 | | n.a. |
| S 5 | 23 5 | 14 7 | 3 25 | 23 39 | 1 47 | 22 5 | 0 42 | 20 23 | 2 36 | 23 41 | 0 4 | 4 19 | 2 29 | 14 12 | 0 44 | 7 48 | 1 58 | 2 11 | 12 22 | 22 3 | 21 51 | 11 5 | | n.a. |
| M 6 | 22 59 | 17 39 | 2 27 | 23 16 | 1 43 | 22 16 | 0 39 | 20 24 | 2 36 | 23 42 | 0 4 | 4 20 | 2 28 | 14 11 | 0 44 | 7 48 | 1 57 | 2 11 | 12 22 | 22 4 | 21 51 | 11 2 | | n.a. |
| T 7 | 22 52 | 20 22 | 1 19 | 22 52 | 1 38 | 22 27 | 0 36 | 20 25 | 2 36 | 23 42 | 0 4 | 4 21 | 2 28 | 14 10 | 0 44 | 7 49 | 1 57 | 2 12 | 12 22 | 22 4 | 21 50 | 11 0 | | n.a. |
| W 8 | 22 45 | 22 0 | 0 5 | 22 25 | 1 32 | 22 36 | 0 34 | 20 27 | 2 35 | 23 43 | 0 4 | 4 22 | 2 28 | 14 9 | 0 44 | 7 49 | 1 57 | 2 12 | 12 22 | 22 4 | 21 50 | 10 58 | | n.a. |
| T 9 | 22 38 | 22 17 | 1n12 | 21 57 | 1 25 | 22 45 | 0 31 | 20 28 | 2 35 | 23 43 | 0 4 | 4 23 | 2 27 | 14 8 | 0 44 | 7 49 | 1 57 | 2 12 | 12 21 | 22 4 | 21 49 | 10 55 | | n.a. |
| F 10 | 22 30 | 21 4 | 2 27 | 21 27 | 1 18 | 22 54 | 0 28 | 20 30 | 2 35 | 23 44 | 0 4 | 4 24 | 2 27 | 14 7 | 0 44 | 7 49 | 1 57 | 2 12 | 12 21 | 22 3 | 21 49 | 10 53 | | n.a. |
| S 11 | 22 22 | 18 22 | 3 32 | 20 56 | 1 10 | 23 2 | 0 25 | 20 32 | 2 34 | 23 44 | 0 4 | 4 25 | 2 27 | 14 6 | 0 44 | 7 49 | 1 57 | 2 12 | 12 21 | 22 3 | 21 48 | 10 51 | | n.a. |
| S 12 | 22 13 | 14 24 | 4 24 | 20 23 | 1 1 | 23 9 | 0 22 | 20 34 | 2 34 | 23 45 | 0 4 | 4 27 | 2 26 | 14 5 | 0 44 | 7 49 | 1 57 | 2 12 | 12 20 | 22 2 | 21 48 | 10 48 | | n.a. |
| M13 | 22 4 | 9 31 | 4 57 | 19 49 | 0 51 | 23 15 | 0 20 | 20 36 | 2 34 | 23 45 | 0 5 | 4 28 | 2 26 | 14 4 | 0 44 | 7 49 | 1 57 | 2 13 | 12 20 | 22 1 | 21 47 | 10 46 | | n.a. |
| T 14 | 21 54 | 4 7 | 5 9 | 19 14 | 0 41 | 23 21 | 0 17 | 20 38 | 2 33 | 23 46 | 0 5 | 4 29 | 2 26 | 14 3 | 0 44 | 7 49 | 1 57 | 2 13 | 12 20 | 22 0 | 21 46 | 10 44 | | n.a. |
| W15 | 21 44 | 1n24 | 5 1 | 18 38 | 0 29 | 23 26 | 0 14 | 20 41 | 2 33 | 23 46 | 0 5 | 4 31 | 2 26 | 14 2 | 0 44 | 7 49 | 1 57 | 2 13 | 12 20 | 21 59 | 21 46 | 10 41 | | n.a. |
| T 16 | 21 34 | 6 42 | 4 34 | 18 1 | 0 17 | 23 30 | 0 11 | 20 44 | 2 32 | 23 46 | 0 5 | 4 32 | 2 25 | 14 1 | 0 44 | 7 50 | 1 57 | 2 13 | 12 19 | 21 58 | 21 45 | 10 39 | | n.a. |
| F 17 | 21 23 | 11 31 | 3 52 | 17 25 | 0 4 | 23 34 | 0 9 | 20 46 | 2 32 | 23 47 | 0 5 | 4 33 | 2 25 | 13 59 | 0 44 | 7 50 | 1 57 | 2 14 | 12 19 | 21 58 | 21 45 | 10 37 | | n.a. |
| S 18 | 21 12 | 15 37 | 2 58 | 16 48 | 0n 9 | 23 37 | 0 6 | 20 49 | 2 31 | 23 47 | 0 5 | 4 35 | 2 25 | 13 58 | 0 44 | 7 50 | 1 57 | 2 14 | 12 19 | 21 58 | 21 44 | 10 34 | | n.a. |
| S 19 | 21 0 | 18 50 | 1 56 | 16 12 | 0 23 | 23 39 | 0 3 | 20 52 | 2 31 | 23 47 | 0 5 | 4 36 | 2 24 | 13 57 | 0 44 | 7 50 | 1 57 | 2 14 | 12 18 | 21 58 | 21 44 | 10 32 | | n.a. |
| M20 | 20 48 | 21 3 | 0 49 | 15 37 | 0 38 | 23 40 | 0 0 | 20 55 | 2 31 | 23 47 | 0 5 | 4 38 | 2 24 | 13 56 | 0 44 | 7 50 | 1 56 | 2 14 | 12 18 | 21 59 | 21 43 | 10 30 | | n.a. |
| T 21 | 20 36 | 22 10 | 0s18 | 15 2 | 0 53 | 23 41 | 0s 2 | 20 59 | 2 30 | 23 48 | 0 5 | 4 39 | 2 24 | 13 55 | 0 44 | 7 51 | 1 56 | 2 15 | 12 18 | 21 59 | 21 43 | 10 27 | | n.a. |
| W22 | 20 23 | 22 12 | 1 23 | 14 30 | 1 9 | 23 41 | 0 5 | 21 2 | 2 30 | 23 48 | 0 6 | 4 41 | 2 23 | 13 54 | 0 44 | 7 51 | 1 56 | 2 15 | 12 18 | 21 58 | 21 42 | 10 25 | | n.a. |
| T 23 | 20 10 | 21 10 | 2 24 | 14 0 | 1 25 | 23 40 | 0 8 | 21 5 | 2 29 | 23 48 | 0 6 | 4 43 | 2 23 | 13 53 | 0 44 | 7 51 | 1 56 | 2 15 | 12 17 | 21 58 | 21 42 | 10 23 | | n.a. |
| F 24 | 19 56 | 19 10 | 3 17 | 13 32 | 1 41 | 23 38 | 0 11 | 21 9 | 2 29 | 23 48 | 0 6 | 4 44 | 2 23 | 13 52 | 0 44 | 7 51 | 1 56 | 2 15 | 12 17 | 21 57 | 21 41 | 10 20 | | n.a. |
| S 25 | 19 42 | 16 22 | 4 1 | 13 7 | 1 57 | 23 36 | 0 13 | 21 12 | 2 28 | 23 48 | 0 6 | 4 46 | 2 23 | 13 51 | 0 44 | 7 52 | 1 56 | 2 16 | 12 17 | 21 55 | 21 41 | 10 18 | | n.a. |
| S 26 | 19 28 | 12 55 | 4 34 | 12 45 | 2 12 | 23 33 | 0 16 | 21 16 | 2 28 | 23 48 | 0 6 | 4 48 | 2 22 | 13 50 | 0 44 | 7 52 | 1 56 | 2 16 | 12 16 | 21 54 | 21 40 | 10 16 | | n.a. |
| M27 | 19 14 | 8 59 | 4 55 | 12 26 | 2 28 | 23 30 | 0 18 | 21 20 | 2 27 | 23 48 | 0 6 | 4 50 | 2 22 | 13 48 | 0 44 | 7 52 | 1 56 | 2 16 | 12 16 | 21 52 | 21 39 | 10 13 | | n.a. |
| T 28 | 18 59 | 4 42 | 5 4 | 12 12 | 2 42 | 23 25 | 0 21 | 21 24 | 2 27 | 23 49 | 0 6 | 4 51 | 2 22 | 13 47 | 0 44 | 7 53 | 1 56 | 2 17 | 12 16 | 21 50 | 21 39 | 10 11 | | n.a. |
| W29 | 18 43 | 0 15 | 4 59 | 12 1 | 2 56 | 23 20 | 0 23 | 21 28 | 2 26 | 23 49 | 0 6 | 4 53 | 2 22 | 13 46 | 0 44 | 7 53 | 1 56 | 2 17 | 12 15 | 21 48 | 21 38 | 10 9 | | n.a. |
| T 30 | 18 28 | 4s14 | 4 41 | 11 54 | 3 9 | 23 15 | 0 26 | 21 32 | 2 26 | 23 49 | 0 7 | 4 55 | 2 21 | 13 45 | 0 44 | 7 53 | 1 56 | 2 17 | 12 15 | 21 47 | 21 38 | 10 6 | | n.a. |
| F 31 | 18s12 | 8s37 | 4s11 | 11s52 | 3n20 | 23s 8 | 0s28 | 21n36 | 2n25 | 23s49 | 0s 7 | 4n57 | 2s21 | 13s44 | 0s44 | 7n54 | 1s56 | 2n18 | 12s15 | 21s46 | 21s37 | 10n 4 | | n.a. |

Julian Day Number = 1687820.5, Delta T = 03h12m04s
Ecliptic obliquity = 23°42'19, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°20'06, Lahiri = - 5°13'06 Julian Calendar 1 Jan. 92 BCE == Greg. Calendar 30 Dec. 093 BCE

The year -91 astronomical counting style corresponds to year 092 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 92 BCE
# geocentric

## FEBRUARY 92 BCE (-91) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 32 59 | 10♒ 1'29 | 24♎12 | 19°R17 | 17♏48 | 25♉24 | 1♏23 | 18♈ 2 | 25♒54 | 24♈46 | 6♉36 | 7°R12 | 6♐22 | 20♌47 | n.a. | S 1 |
| S 2 | 8 36 56 | 11° 1'35 | 6♏42 | 18♒36 | 19° 3 | 25°43 | 1°36 | 18° 6 | 25°58 | 24°46 | 6°36 | 7°D10 | 6°19 | 20°53 | n.a. | S 2 |
| M 3 | 8 40 52 | 12° 1'39 | 19°31 | 17°48 | 20°17 | 26° 3 | 1°48 | 18°11 | 26° 1 | 24°47 | 6°37 | 7♐10 | 6°16 | 21° 0 | n.a. | M 3 |
| T 4 | 8 44 49 | 13° 1'41 | 2♐44 | 16°55 | 21°31 | 26°22 | 2° 0 | 18°15 | 26° 4 | 24°48 | 6°37 | 7°R11 | 6°13 | 21° 7 | n.a. | T 4 |
| W 5 | 8 48 45 | 14° 1'42 | 16°25 | 15°58 | 22°46 | 26°43 | 2°13 | 18°20 | 26° 8 | 24°49 | 6°37 | 7°11 | 6°10 | 21°14 | n.a. | W 5 |
| T 6 | 8 52 42 | 15° 1'42 | 0♑34 | 14°59 | 24° 0 | 27° 3 | 2°25 | 18°25 | 26°11 | 24°50 | 6°38 | 7° 9 | 6° 6 | 21°20 | n.a. | T 6 |
| F 7 | 8 56 38 | 16° 1'39 | 15°11 | 13°59 | 25°14 | 27°24 | 2°37 | 18°30 | 26°14 | 24°51 | 6°38 | 7° 4 | 6° 3 | 21°27 | n.a. | F 7 |
| S 8 | 9 0 35 | 17° 1'35 | 0♒12 | 12°59 | 26°28 | 27°45 | 2°49 | 18°35 | 26°18 | 24°52 | 6°38 | 6°57 | 6° 0 | 21°34 | n.a. | S 8 |
| S 9 | 9 4 32 | 18° 1'28 | 15°28 | 12° 0 | 27°43 | 28° 7 | 3° 1 | 18°40 | 26°21 | 24°53 | 6°39 | 6°47 | 5°57 | 21°41 | n.a. | S 9 |
| M10 | 9 8 28 | 19° 1'19 | 0♓49 | 11° 5 | 28°57 | 28°29 | 3°13 | 18°45 | 26°25 | 24°54 | 6°39 | 6°37 | 5°54 | 21°47 | n.a. | M10 |
| T 11 | 9 12 25 | 20° 1'09 | 16° 3 | 10°13 | 0♒11 | 28°51 | 3°25 | 18°50 | 26°28 | 24°56 | 6°39 | 6°26 | 5°51 | 21°54 | n.a. | T 11 |
| W12 | 9 16 21 | 21° 0'56 | 0♈59 | 9°26 | 1°25 | 29°14 | 3°36 | 18°56 | 26°31 | 24°57 | 6°40 | 6°17 | 5°47 | 22° 1 | n.a. | W12 |
| T 13 | 9 20 18 | 22° 0'40 | 15°29 | 8°44 | 2°40 | 29°36 | 3°48 | 19° 1 | 26°35 | 24°58 | 6°40 | 6°10 | 5°44 | 22° 7 | n.a. | T 13 |
| F 14 | 9 24 14 | 23° 0'23 | 29°31 | 8° 8 | 3°54 | 29°59 | 3°59 | 19° 6 | 26°38 | 24°59 | 6°41 | 6° 6 | 5°41 | 22°14 | n.a. | F 14 |
| S 15 | 9 28 11 | 24° 0'03 | 13♉ 4 | 7°37 | 5° 8 | 0♊23 | 4°11 | 19°12 | 26°42 | 25° 1 | 6°41 | 6° 4 | 5°38 | 22°21 | n.a. | S 15 |
| S 16 | 9 32 7 | 24°59'40 | 26° 9 | 7°13 | 6°22 | 0°47 | 4°22 | 19°18 | 26°45 | 25° 2 | 6°42 | 6°D 4 | 5°35 | 22°28 | n.a. | S 16 |
| M17 | 9 36 4 | 25°59'15 | 8♊52 | 6°56 | 7°36 | 1°11 | 4°33 | 19°23 | 26°49 | 25° 3 | 6°42 | 6°R 4 | 5°32 | 22°34 | n.a. | M17 |
| T 18 | 9 40 0 | 26°58'48 | 21°16 | 6°44 | 8°50 | 1°35 | 4°45 | 19°29 | 26°52 | 25° 4 | 6°43 | 6° 3 | 5°28 | 22°41 | n.a. | T 18 |
| W19 | 9 43 57 | 27°58'19 | 3♋27 | 6°D39 | 10° 5 | 1°59 | 4°56 | 19°35 | 26°55 | 25° 6 | 6°43 | 6° 0 | 5°25 | 22°48 | n.a. | W19 |
| T 20 | 9 47 54 | 28°57'47 | 15°28 | 6°40 | 11°19 | 2°24 | 5° 7 | 19°41 | 26°59 | 25° 7 | 6°44 | 5°55 | 5°22 | 22°54 | n.a. | T 20 |
| F 21 | 9 51 50 | 29°57'12 | 27°23 | 6°46 | 12°33 | 2°49 | 5°18 | 19°47 | 27° 2 | 25° 9 | 6°45 | 5°47 | 5°19 | 23° 1 | n.a. | F 21 |
| S 22 | 9 55 47 | 0♓56'36 | 9♌16 | 6°58 | 13°47 | 3°14 | 5°28 | 19°53 | 27° 6 | 25°10 | 6°45 | 5°36 | 5°16 | 23° 8 | n.a. | S 22 |
| S 23 | 9 59 43 | 1°55'57 | 21° 8 | 7°16 | 15° 1 | 3°40 | 5°39 | 19°59 | 27° 9 | 25°12 | 6°46 | 5°23 | 5°12 | 23°15 | n.a. | S 23 |
| M24 | 10 3 40 | 2°55'16 | 3♍ 1 | 7°38 | 16°15 | 4° 5 | 5°50 | 20° 5 | 27°13 | 25°13 | 6°47 | 5° 8 | 5° 9 | 23°21 | n.a. | M24 |
| T 25 | 10 7 36 | 3°54'32 | 14°56 | 8° 5 | 17°29 | 4°31 | 6° 0 | 20°11 | 27°16 | 25°15 | 6°47 | 4°54 | 5° 6 | 23°28 | n.a. | T 25 |
| W26 | 10 11 33 | 4°53'47 | 26°54 | 8°36 | 18°44 | 4°57 | 6°11 | 20°17 | 27°19 | 25°16 | 6°48 | 4°40 | 5° 3 | 23°35 | n.a. | W26 |
| T 27 | 10 15 29 | 5°53'00 | 8♎58 | 9°12 | 19°58 | 5°24 | 6°21 | 20°24 | 27°23 | 25°18 | 6°49 | 4°29 | 5° 0 | 23°41 | n.a. | T 27 |
| F 28 | 10 19 26 | 6♓52'10 | 21♎ 9 | 9♒52 | 21♒12 | 5♊50 | 6♏31 | 20♈30 | 27♒26 | 25♈19 | 6♉49 | 4♐20 | 4♐57 | 23♌48 | n.a. | F 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 17s56 | 12s42 | 3s28 | 11s53 | 3n30 | 23s 1 | 0s31 | 21n40 | 2n25 | 23s49 | 0s 7 | 4n59 | 2s21 | 13s43 | 0s44 | 7n54 | 1s56 | 2n18 | 12s15 | 21s45 | 21s37 | 10n 2 | | n.a. |
| S 2 | 17 39 | 16 20 | 2 35 | 11 58 | 3 38 | 22 53 | 0 33 | 21 44 | 2 24 | 23 49 | 0 7 | 5 1 | 2 20 | 13 42 | 0 44 | 7 54 | 1 56 | 2 18 | 12 14 | 21 45 | 21 36 | 9 59 | | n.a. |
| M 3 | 17 23 | 19 17 | 1 33 | 12 7 | 3 44 | 22 44 | 0 36 | 21 48 | 2 24 | 23 49 | 0 7 | 5 3 | 2 20 | 13 40 | 0 44 | 7 55 | 1 56 | 2 19 | 12 14 | 21 45 | 21 36 | 9 57 | | n.a. |
| T 4 | 17 5 | 21 20 | 0 24 | 12 19 | 3 48 | 22 35 | 0 38 | 21 52 | 2 23 | 23 49 | 0 7 | 5 5 | 2 20 | 13 39 | 0 44 | 7 55 | 1 55 | 2 19 | 12 14 | 21 45 | 21 35 | 9 55 | | n.a. |
| W 5 | 16 48 | 22 12 | 0n49 | 12 34 | 3 50 | 22 25 | 0 40 | 21 57 | 2 22 | 23 48 | 0 7 | 5 7 | 2 20 | 13 38 | 0 44 | 7 56 | 1 55 | 2 19 | 12 13 | 21 45 | 21 35 | 9 52 | | n.a. |
| T 6 | 16 30 | 21 41 | 2 1 | 12 52 | 3 50 | 22 15 | 0 42 | 22 1 | 2 22 | 23 48 | 0 7 | 5 9 | 2 19 | 13 37 | 0 44 | 7 56 | 1 55 | 2 20 | 12 13 | 21 45 | 21 34 | 9 50 | | n.a. |
| F 7 | 16 13 | 19 44 | 3 7 | 13 11 | 3 48 | 22 3 | 0 45 | 22 5 | 2 21 | 23 48 | 0 7 | 5 11 | 2 19 | 13 36 | 0 44 | 7 57 | 1 55 | 2 20 | 12 13 | 21 44 | 21 33 | 9 48 | | n.a. |
| S 8 | 15 54 | 16 23 | 4 2 | 13 32 | 3 43 | 21 51 | 0 47 | 22 10 | 2 21 | 23 48 | 0 8 | 5 13 | 2 19 | 13 35 | 0 44 | 7 57 | 1 55 | 2 21 | 12 13 | 21 43 | 21 33 | 9 45 | | n.a. |
| S 9 | 15 36 | 11 54 | 4 41 | 13 54 | 3 37 | 21 39 | 0 49 | 22 14 | 2 20 | 23 48 | 0 8 | 5 15 | 2 19 | 13 33 | 0 44 | 7 57 | 1 55 | 2 21 | 12 12 | 21 41 | 21 32 | 9 43 | | n.a. |
| M10 | 15 17 | 6 38 | 5 0 | 14 17 | 3 29 | 21 26 | 0 51 | 22 19 | 2 20 | 23 48 | 0 8 | 5 18 | 2 18 | 13 32 | 0 44 | 7 58 | 1 55 | 2 21 | 12 12 | 21 39 | 21 32 | 9 41 | | n.a. |
| T 11 | 14 58 | 1 0 | 4 57 | 14 40 | 3 20 | 21 12 | 0 53 | 22 23 | 2 19 | 23 48 | 0 8 | 5 20 | 2 18 | 13 31 | 0 44 | 7 58 | 1 55 | 2 22 | 12 12 | 21 37 | 21 31 | 9 38 | | n.a. |
| W12 | 14 39 | 4n35 | 4 34 | 15 3 | 3 9 | 20 57 | 0 55 | 22 28 | 2 19 | 23 47 | 0 8 | 5 22 | 2 18 | 13 30 | 0 44 | 7 59 | 1 55 | 2 22 | 12 11 | 21 36 | 21 31 | 9 36 | | n.a. |
| T 13 | 14 20 | 9 45 | 3 54 | 15 25 | 2 58 | 20 42 | 0 57 | 22 32 | 2 18 | 23 47 | 0 8 | 5 24 | 2 18 | 13 29 | 0 44 | 7 59 | 1 55 | 2 23 | 12 11 | 21 35 | 21 30 | 9 34 | | n.a. |
| F 14 | 14 0 | 14 14 | 3 1 | 15 47 | 2 45 | 20 27 | 0 59 | 22 37 | 2 18 | 23 47 | 0 8 | 5 27 | 2 17 | 13 28 | 0 44 | 8 0 | 1 55 | 2 23 | 12 11 | 21 34 | 21 30 | 9 31 | | n.a. |
| S 15 | 13 40 | 17 49 | 1 59 | 16 8 | 2 32 | 20 10 | 1 1 | 22 41 | 2 17 | 23 47 | 0 9 | 5 29 | 2 17 | 13 26 | 0 44 | 8 0 | 1 55 | 2 23 | 12 11 | 21 34 | 21 29 | 9 29 | | n.a. |
| S 16 | 13 20 | 20 21 | 0 52 | 16 27 | 2 18 | 19 54 | 1 2 | 22 46 | 2 16 | 23 47 | 0 9 | 5 31 | 2 17 | 13 25 | 0 44 | 8 1 | 1 55 | 2 24 | 12 10 | 21 33 | 21 28 | 9 26 | | n.a. |
| M17 | 13 0 | 21 47 | 0s15 | 16 45 | 2 4 | 19 36 | 1 4 | 22 50 | 2 16 | 23 46 | 0 9 | 5 34 | 2 17 | 13 24 | 0 44 | 8 1 | 1 55 | 2 24 | 12 10 | 21 33 | 21 28 | 9 24 | | n.a. |
| T 18 | 12 39 | 22 5 | 1 20 | 17 2 | 1 49 | 19 18 | 1 6 | 22 55 | 2 15 | 23 46 | 0 9 | 5 36 | 2 17 | 13 23 | 0 44 | 8 2 | 1 55 | 2 25 | 12 10 | 21 33 | 21 27 | 9 22 | | n.a. |
| W19 | 12 19 | 21 20 | 2 19 | 17 17 | 1 35 | 19 0 | 1 7 | 22 59 | 2 15 | 23 46 | 0 9 | 5 39 | 2 16 | 13 22 | 0 44 | 8 3 | 1 55 | 2 25 | 12 9 | 21 33 | 21 27 | 9 19 | | n.a. |
| T 20 | 11 58 | 19 37 | 3 12 | 17 31 | 1 21 | 18 41 | 1 9 | 23 4 | 2 14 | 23 45 | 0 9 | 5 41 | 2 16 | 13 20 | 0 44 | 8 3 | 1 55 | 2 26 | 12 9 | 21 32 | 21 26 | 9 17 | | n.a. |
| F 21 | 11 37 | 17 4 | 3 56 | 17 43 | 1 7 | 18 21 | 1 10 | 23 8 | 2 14 | 23 45 | 0 9 | 5 43 | 2 16 | 13 19 | 0 44 | 8 4 | 1 54 | 2 26 | 12 9 | 21 31 | 21 26 | 9 15 | | n.a. |
| S 22 | 11 16 | 13 49 | 4 29 | 17 53 | 0 53 | 18 1 | 1 12 | 23 13 | 2 13 | 23 45 | 0 9 | 5 46 | 2 16 | 13 18 | 0 44 | 8 4 | 1 54 | 2 26 | 12 9 | 21 29 | 21 25 | 9 12 | | n.a. |
| S 23 | 10 54 | 10 2 | 4 50 | 18 2 | 0 39 | 17 40 | 1 13 | 23 17 | 2 13 | 23 45 | 0 10 | 5 48 | 2 15 | 13 17 | 0 44 | 8 5 | 1 54 | 2 27 | 12 8 | 21 26 | 21 24 | 9 10 | | n.a. |
| M24 | 10 33 | 5 52 | 4 59 | 18 9 | 0 26 | 17 19 | 1 14 | 23 22 | 2 12 | 23 44 | 0 10 | 5 51 | 2 15 | 13 16 | 0 44 | 8 6 | 1 54 | 2 27 | 12 8 | 21 24 | 21 24 | 9 8 | | n.a. |
| T 25 | 10 11 | 1 28 | 4 55 | 18 14 | 0 13 | 16 58 | 1 16 | 23 26 | 2 11 | 23 44 | 0 10 | 5 53 | 2 15 | 13 15 | 0 44 | 8 6 | 1 54 | 2 28 | 12 8 | 21 21 | 21 23 | 9 5 | | n.a. |
| W26 | 9 49 | 3s 0 | 4 38 | 18 18 | 0 0 | 16 36 | 1 17 | 23 30 | 2 11 | 23 44 | 0 10 | 5 56 | 2 15 | 13 13 | 0 44 | 8 7 | 1 54 | 2 28 | 12 8 | 21 18 | 21 23 | 9 3 | | n.a. |
| T 27 | 9 27 | 7 23 | 4 8 | 18 20 | 0s12 | 16 13 | 1 18 | 23 35 | 2 10 | 23 43 | 0 10 | 5 59 | 2 15 | 13 12 | 0 44 | 8 7 | 1 54 | 2 29 | 12 7 | 21 16 | 21 22 | 9 1 | | n.a. |
| F 28 | 9s 5 | 11s31 | 3s26 | 18s21 | 0s23 | 15s50 | 1s19 | 23n39 | 2n10 | 23s43 | 0s10 | 6n 1 | 2s14 | 13s11 | 0s44 | 8n 8 | 1s54 | 2n29 | 12s 7 | 21s15 | 21s21 | 8n58 | | n.a. |

Julian Day Number = 1687851.5, Delta T = 03h12m03s
Ecliptic obliquity = 23°42'19, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°20'02, Lahiri = - 5°13'02 Julian Calendar 1 Feb. 92 BCE == Greg. Calendar 30 Jan. 092 BCE

The year -91 astronomical counting style corresponds to year 092 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 92 BCE
# geocentric

## MARCH 92 BCE (-91) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 23 23 | 7♓51'19 | 3♏29 | 10♒35 | 22♒26 | 6♊17 | 6♑41 | 20♈37 | 27♒30 | 25♈21 | 6♉50 | 4°R15 | 4♐53 | 23♌55 | n.a. | S 1 |
| S 2 | 10 27 19 | 8°50'25 | 16° 1 | 11°23 | 23°40 | 6°44 | 6°51 | 20°43 | 27°33 | 25°23 | 6°51 | 4♐12 | 4°50 | 24° 2 | n.a. | S 2 |
| M 3 | 10 31 16 | 9°49'30 | 28°50 | 12°13 | 24°54 | 7°11 | 7° 1 | 20°50 | 27°36 | 25°24 | 6°52 | 4°11 | 4°47 | 24° 8 | n.a. | M 3 |
| T 4 | 10 35 12 | 10°48'33 | 11♐59 | 13° 7 | 26° 8 | 7°38 | 7°11 | 20°56 | 27°40 | 25°26 | 6°53 | 4°11 | 4°44 | 24°15 | n.a. | T 4 |
| W 5 | 10 39 9 | 11°47'35 | 25°31 | 14° 3 | 27°22 | 8° 6 | 7°21 | 21° 3 | 27°43 | 25°28 | 6°53 | 4°11 | 4°41 | 24°22 | n.a. | W 5 |
| T 6 | 10 43 5 | 12°46'34 | 9♑28 | 15° 3 | 28°36 | 8°33 | 7°30 | 21°10 | 27°46 | 25°30 | 6°54 | 4° 9 | 4°37 | 24°29 | n.a. | T 6 |
| F 7 | 10 47 2 | 13°45'32 | 23°53 | 16° 5 | 29°50 | 9° 1 | 7°39 | 21°16 | 27°50 | 25°31 | 6°55 | 4° 4 | 4°34 | 24°35 | n.a. | F 7 |
| S 8 | 10 50 58 | 14°44'27 | 8♒41 | 17°10 | 1♓ 4 | 9°29 | 7°49 | 21°23 | 27°53 | 25°33 | 6°56 | 3°57 | 4°31 | 24°42 | n.a. | S 8 |
| S 9 | 10 54 55 | 15°43'21 | 23°47 | 18°17 | 2°18 | 9°57 | 7°58 | 21°30 | 27°56 | 25°35 | 6°57 | 3°48 | 4°28 | 24°49 | n.a. | S 9 |
| M10 | 10 58 51 | 16°42'13 | 9♓ 2 | 19°27 | 3°32 | 10°26 | 8° 7 | 21°37 | 28° 0 | 25°37 | 6°58 | 3°37 | 4°25 | 24°55 | n.a. | M10 |
| T 11 | 11 2 48 | 17°41'02 | 24°14 | 20°39 | 4°46 | 10°54 | 8°16 | 21°44 | 28° 3 | 25°39 | 6°59 | 3°26 | 4°22 | 25° 2 | n.a. | T 11 |
| W12 | 11 6 45 | 18°39'50 | 9♈14 | 21°53 | 6° 0 | 11°23 | 8°25 | 21°51 | 28° 6 | 25°40 | 7° 0 | 3°17 | 4°18 | 25° 9 | n.a. | W12 |
| T 13 | 11 10 41 | 19°38'35 | 23°51 | 23° 9 | 7°14 | 11°52 | 8°33 | 21°58 | 28°10 | 25°42 | 7° 1 | 3° 9 | 4°15 | 25°16 | n.a. | T 13 |
| F 14 | 11 14 38 | 20°37'18 | 8♉ 1 | 24°27 | 8°28 | 12°21 | 8°42 | 22° 5 | 28°13 | 25°44 | 7° 2 | 3° 5 | 4°12 | 25°22 | n.a. | F 14 |
| S 15 | 11 18 34 | 21°35'59 | 21°42 | 25°47 | 9°42 | 12°50 | 8°50 | 22°12 | 28°16 | 25°46 | 7° 3 | 3° 3 | 4° 9 | 25°29 | n.a. | S 15 |
| S 16 | 11 22 31 | 22°34'38 | 4♊54 | 27° 9 | 10°56 | 13°20 | 8°59 | 22°19 | 28°19 | 25°48 | 7° 4 | 3°D 2 | 4° 6 | 25°36 | n.a. | S 16 |
| M17 | 11 26 27 | 23°33'14 | 17°41 | 28°34 | 12°10 | 13°49 | 9° 7 | 22°26 | 28°22 | 25°50 | 7° 5 | 3°R 2 | 4° 3 | 25°42 | n.a. | M17 |
| T 18 | 11 30 24 | 24°31'48 | 0♋ 7 | 29°59 | 13°24 | 14°19 | 9°15 | 22°34 | 28°26 | 25°52 | 7° 6 | 3° 2 | 3°59 | 25°49 | n.a. | T 18 |
| W19 | 11 34 20 | 25°30'19 | 12°18 | 1♓27 | 14°38 | 14°48 | 9°23 | 22°41 | 28°29 | 25°54 | 7° 7 | 3° 1 | 3°56 | 25°56 | n.a. | W19 |
| T 20 | 11 38 17 | 26°28'49 | 24°17 | 2°57 | 15°52 | 15°18 | 9°30 | 22°48 | 28°32 | 25°56 | 7° 8 | 2°57 | 3°53 | 26° 3 | n.a. | T 20 |
| F 21 | 11 42 14 | 27°27'16 | 6♌11 | 4°28 | 17° 6 | 15°48 | 9°38 | 22°56 | 28°35 | 25°58 | 7° 9 | 2°51 | 3°50 | 26° 9 | n.a. | F 21 |
| S 22 | 11 46 10 | 28°25'41 | 18° 2 | 6° 1 | 18°20 | 16°19 | 9°45 | 23° 3 | 28°38 | 26° 0 | 7°10 | 2°43 | 3°47 | 26°16 | n.a. | S 22 |
| S 23 | 11 50 7 | 29°24'04 | 29°54 | 7°36 | 19°34 | 16°49 | 9°53 | 23°10 | 28°41 | 26° 2 | 7°11 | 2°32 | 3°43 | 26°23 | n.a. | S 23 |
| M24 | 11 54 3 | 0♈22'24 | 11♍49 | 9°12 | 20°48 | 17°19 | 10° 0 | 23°18 | 28°44 | 26° 4 | 7°12 | 2°21 | 3°40 | 26°30 | n.a. | M24 |
| T 25 | 11 58 0 | 1°20'43 | 23°49 | 10°50 | 22° 2 | 17°50 | 10° 7 | 23°25 | 28°47 | 26° 6 | 7°13 | 2° 9 | 3°37 | 26°36 | n.a. | T 25 |
| W26 | 12 1 56 | 2°18'59 | 5♎56 | 12°30 | 23°16 | 18°20 | 10°14 | 23°33 | 28°50 | 26° 8 | 7°15 | 1°58 | 3°34 | 26°43 | n.a. | W26 |
| T 27 | 12 5 53 | 3°17'14 | 18°10 | 14°12 | 24°30 | 18°51 | 10°20 | 23°40 | 28°53 | 26°10 | 7°16 | 1°49 | 3°31 | 26°50 | n.a. | T 27 |
| F 28 | 12 9 49 | 4°15'27 | 0♏33 | 15°55 | 25°43 | 19°22 | 10°27 | 23°48 | 28°56 | 26°12 | 7°17 | 1°43 | 3°28 | 26°56 | n.a. | F 28 |
| S 29 | 12 13 46 | 5°13'38 | 13° 6 | 17°41 | 26°57 | 19°53 | 10°33 | 23°55 | 28°59 | 26°15 | 7°18 | 1°39 | 3°24 | 27° 3 | n.a. | S 29 |
| S 30 | 12 17 42 | 6°11'48 | 25°50 | 19°27 | 28°11 | 20°24 | 10°40 | 24° 3 | 29° 2 | 26°17 | 7°19 | 1°D37 | 3°21 | 27°10 | n.a. | S 30 |
| M31 | 12 21 39 | 7♈ 9'56 | 8♐48 | 21♓16 | 29♓25 | 20♊55 | 10♑46 | 24♈11 | 29♒ 5 | 26♈19 | 7♉20 | 1♐37 | 3♐18 | 27♌17 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 8s43 | 15s14 | 2s35 | 18s20 | 0s34 | 15s27 | 1s20 | 23n43 | 2n 9 | 23s42 | 0s10 | 6n 4 | 2s14 | 13s10 | 0s44 | 8n 9 | 1s54 | 2n30 | 12s 7 | 21s14 | 21s21 | 8n56 | | n.a. |
| S 2 | 8 21 | 18 19 | 1 34 | 18 17 | 0 45 | 15 3 | 1 21 | 23 47 | 2 9 | 23 42 | 0 11 | 6 6 | 2 14 | 13 9 | 0 44 | 8 9 | 1 54 | 2 30 | 12 6 | 21 13 | 21 20 | 8 53 | | n.a. |
| M 3 | 7 58 | 20 35 | 0 28 | 18 12 | 0 55 | 14 39 | 1 22 | 23 51 | 2 8 | 23 42 | 0 11 | 6 9 | 2 14 | 13 7 | 0 44 | 8 10 | 1 54 | 2 31 | 12 6 | 21 13 | 21 20 | 8 51 | | n.a. |
| T 4 | 7 36 | 21 48 | 0n41 | 18 6 | 1 5 | 14 14 | 1 23 | 23 55 | 2 8 | 23 41 | 0 11 | 6 12 | 2 14 | 13 6 | 0 44 | 8 11 | 1 54 | 2 31 | 12 6 | 21 13 | 21 19 | 8 49 | | n.a. |
| W 5 | 7 13 | 21 48 | 1 50 | 17 58 | 1 14 | 13 49 | 1 23 | 23 59 | 2 7 | 23 41 | 0 11 | 6 14 | 2 14 | 13 5 | 0 44 | 8 11 | 1 54 | 2 32 | 12 6 | 21 13 | 21 19 | 8 46 | | n.a. |
| T 6 | 6 50 | 20 27 | 2 55 | 17 49 | 1 22 | 13 24 | 1 24 | 24 3 | 2 7 | 23 41 | 0 11 | 6 17 | 2 13 | 13 4 | 0 44 | 8 12 | 1 54 | 2 32 | 12 6 | 21 13 | 21 18 | 8 44 | | n.a. |
| F 7 | 6 27 | 17 47 | 3 51 | 17 38 | 1 30 | 12 58 | 1 25 | 24 7 | 2 6 | 23 40 | 0 11 | 6 20 | 2 13 | 13 3 | 0 44 | 8 13 | 1 54 | 2 33 | 12 5 | 21 12 | 21 17 | 8 42 | | n.a. |
| S 8 | 6 4 | 13 54 | 4 32 | 17 25 | 1 38 | 12 32 | 1 25 | 24 11 | 2 5 | 23 40 | 0 11 | 6 23 | 2 13 | 13 2 | 0 44 | 8 13 | 1 54 | 2 33 | 12 5 | 21 10 | 21 17 | 8 39 | | n.a. |
| S 9 | 5 41 | 9 5 | 4 56 | 17 11 | 1 45 | 12 6 | 1 26 | 24 15 | 2 5 | 23 39 | 0 12 | 6 25 | 2 13 | 13 1 | 0 44 | 8 14 | 1 54 | 2 34 | 12 5 | 21 9 | 21 16 | 8 37 | | n.a. |
| M10 | 5 18 | 3 39 | 5 0 | 16 55 | 1 52 | 11 39 | 1 26 | 24 19 | 2 4 | 23 39 | 0 12 | 6 28 | 2 13 | 12 59 | 0 44 | 8 15 | 1 54 | 2 34 | 12 5 | 21 7 | 21 16 | 8 35 | | n.a. |
| T 11 | 4 55 | 1n59 | 4 42 | 16 38 | 1 58 | 11 12 | 1 27 | 24 22 | 2 4 | 23 39 | 0 12 | 6 31 | 2 13 | 12 58 | 0 44 | 8 16 | 1 54 | 2 35 | 12 4 | 21 5 | 21 15 | 8 32 | | n.a. |
| W12 | 4 32 | 7 26 | 4 4 | 16 19 | 2 3 | 10 45 | 1 27 | 24 26 | 2 3 | 23 38 | 0 12 | 6 34 | 2 12 | 12 57 | 0 44 | 8 16 | 1 54 | 2 35 | 12 4 | 21 3 | 21 14 | 8 30 | | n.a. |
| T 13 | 4 9 | 12 19 | 3 12 | 15 58 | 2 8 | 10 18 | 1 27 | 24 29 | 2 3 | 23 38 | 0 12 | 6 36 | 2 12 | 12 56 | 0 44 | 8 17 | 1 53 | 2 36 | 12 4 | 21 1 | 21 14 | 8 27 | | n.a. |
| F 14 | 3 45 | 16 22 | 2 9 | 15 36 | 2 13 | 9 50 | 1 27 | 24 33 | 2 2 | 23 37 | 0 12 | 6 39 | 2 12 | 12 55 | 0 44 | 8 18 | 1 53 | 2 36 | 12 4 | 21 0 | 21 13 | 8 25 | | n.a. |
| S 15 | 3 22 | 19 21 | 1 0 | 15 12 | 2 16 | 9 22 | 1 27 | 24 36 | 2 2 | 23 37 | 0 13 | 6 42 | 2 12 | 12 54 | 0 44 | 8 18 | 1 53 | 2 37 | 12 3 | 21 0 | 21 13 | 8 23 | | n.a. |
| S 16 | 2 59 | 21 11 | 0s10 | 14 47 | 2 20 | 8 53 | 1 27 | 24 39 | 2 1 | 23 36 | 0 13 | 6 45 | 2 12 | 12 53 | 0 44 | 8 19 | 1 53 | 2 37 | 12 3 | 21 0 | 21 12 | 8 20 | | n.a. |
| M17 | 2 35 | 21 51 | 1 17 | 14 20 | 2 23 | 8 25 | 1 27 | 24 42 | 2 1 | 23 36 | 0 13 | 6 48 | 2 12 | 12 52 | 0 44 | 8 20 | 1 53 | 2 38 | 12 3 | 21 0 | 21 11 | 8 18 | | n.a. |
| T 18 | 2 12 | 21 24 | 2 19 | 13 52 | 2 25 | 7 56 | 1 27 | 24 46 | 2 0 | 23 36 | 0 13 | 6 50 | 2 12 | 12 50 | 0 44 | 8 21 | 1 53 | 2 38 | 12 3 | 21 0 | 21 11 | 8 16 | | n.a. |
| W19 | 1 48 | 19 56 | 3 13 | 13 22 | 2 27 | 7 27 | 1 27 | 24 49 | 2 0 | 23 35 | 0 13 | 6 53 | 2 11 | 12 49 | 0 44 | 8 21 | 1 53 | 2 39 | 12 3 | 21 0 | 21 10 | 8 13 | | n.a. |
| T 20 | 1 25 | 17 36 | 3 57 | 12 50 | 2 28 | 6 58 | 1 27 | 24 51 | 1 59 | 23 35 | 0 13 | 6 56 | 2 11 | 12 48 | 0 44 | 8 22 | 1 53 | 2 39 | 12 2 | 20 59 | 21 10 | 8 11 | | n.a. |
| F 21 | 1 1 | 14 34 | 4 31 | 12 17 | 2 29 | 6 28 | 1 27 | 24 54 | 1 59 | 23 34 | 0 13 | 6 59 | 2 11 | 12 47 | 0 44 | 8 23 | 1 53 | 2 40 | 12 2 | 20 58 | 21 9 | 8 9 | | n.a. |
| S 22 | 0 38 | 10 57 | 4 53 | 11 43 | 2 29 | 5 59 | 1 26 | 24 57 | 1 58 | 23 34 | 0 14 | 7 2 | 2 11 | 12 46 | 0 44 | 8 24 | 1 53 | 2 40 | 12 2 | 20 56 | 21 8 | 8 6 | | n.a. |
| S 23 | 0 14 | 6 55 | 5 2 | 11 7 | 2 29 | 5 29 | 1 26 | 24 59 | 1 57 | 23 34 | 0 14 | 7 5 | 2 11 | 12 45 | 0 44 | 8 25 | 1 53 | 2 41 | 12 2 | 20 54 | 21 8 | 8 4 | | n.a. |
| M24 | 0n 9 | 2 37 | 4 59 | 10 29 | 2 28 | 4 59 | 1 25 | 25 2 | 1 57 | 23 33 | 0 14 | 7 8 | 2 11 | 12 44 | 0 44 | 8 25 | 1 53 | 2 42 | 12 2 | 20 52 | 21 7 | 8 1 | | n.a. |
| T 25 | 0 32 | 1s50 | 4 42 | 9 50 | 2 27 | 4 29 | 1 25 | 25 4 | 1 56 | 23 33 | 0 14 | 7 11 | 2 11 | 12 43 | 0 44 | 8 26 | 1 53 | 2 42 | 12 1 | 20 49 | 21 7 | 7 59 | | n.a. |
| W26 | 0 56 | 6 14 | 4 12 | 9 10 | 2 25 | 3 59 | 1 24 | 25 7 | 1 56 | 23 33 | 0 14 | 7 13 | 2 10 | 12 42 | 0 44 | 8 27 | 1 53 | 2 43 | 12 1 | 20 47 | 21 6 | 7 57 | | n.a. |
| T 27 | 1 19 | 10 26 | 3 30 | 8 28 | 2 22 | 3 29 | 1 24 | 25 9 | 1 55 | 23 32 | 0 14 | 7 16 | 2 10 | 12 41 | 0 44 | 8 28 | 1 53 | 2 43 | 12 1 | 20 45 | 21 5 | 7 54 | | n.a. |
| F 28 | 1 43 | 14 15 | 2 38 | 7 45 | 2 19 | 2 59 | 1 23 | 25 11 | 1 55 | 23 32 | 0 15 | 7 19 | 2 10 | 12 40 | 0 44 | 8 28 | 1 53 | 2 44 | 12 1 | 20 44 | 21 5 | 7 52 | | n.a. |
| S 29 | 2 6 | 17 29 | 1 38 | 7 0 | 2 16 | 2 29 | 1 22 | 25 13 | 1 54 | 23 32 | 0 15 | 7 22 | 2 10 | 12 39 | 0 44 | 8 29 | 1 53 | 2 44 | 12 1 | 20 43 | 21 4 | 7 50 | | n.a. |
| S 30 | 2 29 | 19 56 | 0 31 | 6 14 | 2 12 | 1 58 | 1 21 | 25 15 | 1 54 | 23 31 | 0 15 | 7 25 | 2 10 | 12 38 | 0 44 | 8 30 | 1 53 | 2 45 | 12 1 | 20 43 | 21 4 | 7 47 | | n.a. |
| M31 | 2n52 | 21s23 | 0n38 | 5s27 | 2s 7 | 1s28 | 1s20 | 25n16 | 1n53 | 23s31 | 0s15 | 7n28 | 2s10 | 12s37 | 0s44 | 8n31 | 1s53 | 2n45 | 12s 0 | 20s43 | 21s 3 | 7n45 | | n.a. |

Julian Day Number = 1687879.5, Delta T = 03h12m02s
Ecliptic obliquity = 23°42'19, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°19'58, Lahiri = - 5°12'58 Julian Calendar 1 March 92 BCE == Greg. Calendar 27 Feb. 092 BCE

The year -91 astronomical counting style corresponds to year 092 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 92 BCE
# geocentric

## APRIL 92 BCE (-91) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 25 36 | 8♈ 8'03 | 22♐ 2 | 23♓ 7 | 0♈39 | 21♊27 | 10♑52 | 24♈18 | 29♒ 8 | 26♈21 | 7♉22 | 1♐38 | 3♐15 | 27♌23 | n.a. | T 1 |
| W 2 | 12 29 32 | 9° 6'08 | 5♑33 | 24°59 | 1°53 | 21°58 | 10°58 | 24°26 | 29°11 | 26°23 | 7°23 | 1°R39 | 3°12 | 27°30 | n.a. | W 2 |
| T 3 | 12 33 29 | 10° 4'11 | 19°25 | 26°53 | 3° 7 | 22°30 | 11° 3 | 24°34 | 29°13 | 26°25 | 7°24 | 1°38 | 3° 9 | 27°37 | n.a. | T 3 |
| F 4 | 12 37 25 | 11° 2'13 | 3♒37 | 28°48 | 4°20 | 23° 1 | 11° 9 | 24°41 | 29°16 | 26°28 | 7°25 | 1°36 | 3° 5 | 27°43 | n.a. | F 4 |
| S 5 | 12 41 22 | 12° 0'14 | 18° 8 | 0♈46 | 5°34 | 23°33 | 11°14 | 24°49 | 29°19 | 26°30 | 7°27 | 1°32 | 3° 2 | 27°50 | n.a. | S 5 |
| S 6 | 12 45 18 | 12°58'13 | 2♓54 | 2°45 | 6°48 | 24° 5 | 11°19 | 24°57 | 29°22 | 26°32 | 7°28 | 1°26 | 2°59 | 27°57 | n.a. | S 6 |
| M 7 | 12 49 15 | 13°56'11 | 17°48 | 4°46 | 8° 2 | 24°37 | 11°24 | 25° 5 | 29°24 | 26°34 | 7°29 | 1°19 | 2°56 | 28° 4 | n.a. | M 7 |
| T 8 | 12 53 11 | 14°54'07 | 2♈42 | 6°48 | 9°16 | 25° 9 | 11°29 | 25°12 | 29°27 | 26°36 | 7°30 | 1°12 | 2°53 | 28°10 | n.a. | T 8 |
| W 9 | 12 57 8 | 15°52'01 | 17°28 | 8°52 | 10°30 | 25°41 | 11°33 | 25°20 | 29°29 | 26°39 | 7°32 | 1° 6 | 2°49 | 28°17 | n.a. | W 9 |
| T 10 | 13 1 5 | 16°49'54 | 1♉58 | 10°57 | 11°43 | 26°14 | 11°38 | 25°28 | 29°32 | 26°41 | 7°33 | 1° 1 | 2°46 | 28°24 | n.a. | T 10 |
| F 11 | 13 5 1 | 17°47'46 | 16° 5 | 13° 4 | 12°57 | 26°46 | 11°42 | 25°36 | 29°35 | 26°43 | 7°34 | 0°58 | 2°43 | 28°31 | n.a. | F 11 |
| S 12 | 13 8 58 | 18°45'35 | 29°47 | 15°12 | 14°11 | 27°18 | 11°46 | 25°44 | 29°37 | 26°45 | 7°36 | 0°D57 | 2°40 | 28°37 | n.a. | S 12 |
| S 13 | 13 12 54 | 19°43'23 | 13♊ 2 | 17°21 | 15°25 | 27°51 | 11°50 | 25°51 | 29°40 | 26°47 | 7°37 | 0°58 | 2°37 | 28°44 | n.a. | S 13 |
| M14 | 13 16 51 | 20°41'09 | 25°54 | 19°30 | 16°39 | 28°24 | 11°54 | 25°59 | 29°42 | 26°50 | 7°38 | 0°59 | 2°34 | 28°51 | n.a. | M14 |
| T 15 | 13 20 47 | 21°38'54 | 8♋24 | 21°41 | 17°52 | 28°56 | 11°58 | 26° 7 | 29°44 | 26°52 | 7°39 | 1° 1 | 2°30 | 28°57 | n.a. | T 15 |
| W16 | 13 24 44 | 22°36'36 | 20°38 | 23°52 | 19° 6 | 29°29 | 12° 1 | 26°15 | 29°47 | 26°54 | 7°41 | 1°R 1 | 2°27 | 29° 4 | n.a. | W16 |
| T 17 | 13 28 40 | 23°34'17 | 2♌40 | 26° 3 | 20°20 | 0♋ 2 | 12° 4 | 26°23 | 29°49 | 26°56 | 7°42 | 1° 1 | 2°24 | 29°11 | n.a. | T 17 |
| F 18 | 13 32 37 | 24°31'56 | 14°34 | 28°13 | 21°34 | 0°35 | 12° 7 | 26°31 | 29°52 | 26°59 | 7°43 | 0°59 | 2°21 | 29°18 | n.a. | F 18 |
| S 19 | 13 36 34 | 25°29'34 | 26°26 | 0♌24 | 22°47 | 1° 8 | 12°10 | 26°38 | 29°54 | 27° 1 | 7°45 | 0°55 | 2°18 | 29°24 | n.a. | S 19 |
| S 20 | 13 40 30 | 26°27'10 | 8♍20 | 2°33 | 24° 1 | 1°41 | 12°13 | 26°46 | 29°56 | 27° 3 | 7°46 | 0°51 | 2°14 | 29°31 | n.a. | S 20 |
| M21 | 13 44 27 | 27°24'44 | 20°19 | 4°42 | 25°15 | 2°14 | 12°15 | 26°54 | 29°58 | 27° 5 | 7°47 | 0°45 | 2°11 | 29°38 | n.a. | M21 |
| T 22 | 13 48 23 | 28°22'17 | 2♎25 | 6°50 | 26°28 | 2°48 | 12°18 | 27° 2 | 0♓ 0 | 27° 8 | 7°49 | 0°39 | 2° 8 | 29°45 | n.a. | T 22 |
| W23 | 13 52 20 | 29°19'48 | 14°41 | 8°56 | 27°42 | 3°21 | 12°20 | 27°10 | 0° 3 | 27°10 | 7°50 | 0°34 | 2° 5 | 29°51 | n.a. | W23 |
| T 24 | 13 56 16 | 0♌17'19 | 27° 8 | 11° 0 | 28°56 | 3°54 | 12°22 | 27°18 | 0° 5 | 27°12 | 7°52 | 0°30 | 2° 2 | 29°58 | n.a. | T 24 |
| F 25 | 14 0 13 | 1°14'47 | 9♏47 | 13° 3 | 0♌10 | 4°28 | 12°24 | 27°26 | 0° 7 | 27°14 | 7°53 | 0°27 | 1°59 | 0♍ 5 | n.a. | F 25 |
| S 26 | 14 4 9 | 2°12'15 | 22°38 | 15° 3 | 1°23 | 5° 2 | 12°25 | 27°33 | 0° 9 | 27°17 | 7°54 | 0°25 | 1°55 | 0°11 | n.a. | S 26 |
| S 27 | 14 8 6 | 3° 9'42 | 5♐42 | 17° 1 | 2°37 | 5°35 | 12°27 | 27°41 | 0°11 | 27°19 | 7°56 | 0°D25 | 1°52 | 0°18 | n.a. | S 27 |
| M28 | 14 12 3 | 4° 7'08 | 18°59 | 18°57 | 3°51 | 6° 9 | 12°28 | 27°49 | 0°13 | 27°21 | 7°57 | 0°26 | 1°49 | 0°25 | n.a. | M28 |
| T 29 | 14 15 59 | 5° 4'33 | 2♑29 | 20°50 | 5° 4 | 6°43 | 12°29 | 27°57 | 0°15 | 27°23 | 7°58 | 0°27 | 1°46 | 0°32 | n.a. | T 29 |
| W30 | 14 19 56 | 6♑ 1'57 | 16♑11 | 22♑41 | 6♑18 | 7♋17 | 12♑30 | 28♈ 5 | 0♓16 | 27♈26 | 8♉ 0 | 0♐29 | 1♐43 | 0♍38 | n.a. | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3n16 | 21s41 | 1n47 | 4s38 | 2s 2 | 0s57 | 1s19 | 25n18 | 1n53 | 23s31 | 0s15 | 7n31 | 2s10 | 12s36 | 0s44 | 8n32 | 1s53 | 2n46 | 12s 0 | 20s43 | 21s 2 | 7n42 | | n.a. |
| W 2 | 3 39 | 20 43 | 2 52 | 3 48 | 1 57 | 0 26 | 1 18 | 25 20 | 1 52 | 23 30 | 0 15 | 7 34 | 2 10 | 12 35 | 0 44 | 8 32 | 1 53 | 2 46 | 12 0 | 20 43 | 21 2 | 7 40 | | n.a. |
| T 3 | 4 2 | 18 31 | 3 48 | 2 56 | 1 50 | 0n 4 | 1 17 | 25 21 | 1 52 | 23 30 | 0 16 | 7 37 | 2 10 | 12 34 | 0 44 | 8 33 | 1 53 | 2 47 | 12 0 | 20 43 | 21 1 | 7 38 | | n.a. |
| F 4 | 4 25 | 15 9 | 4 32 | 2 4 | 1 44 | 0 35 | 1 16 | 25 22 | 1 51 | 23 30 | 0 16 | 7 40 | 2 10 | 12 33 | 0 44 | 8 34 | 1 53 | 2 47 | 12 0 | 20 43 | 21 0 | 7 35 | | n.a. |
| S 5 | 4 48 | 10 49 | 4 59 | 1 10 | 1 37 | 1 6 | 1 15 | 25 23 | 1 51 | 23 29 | 0 16 | 7 43 | 2 10 | 12 32 | 0 44 | 8 35 | 1 53 | 2 48 | 12 0 | 20 42 | 21 0 | 7 33 | | n.a. |
| S 6 | 5 11 | 5 47 | 5 7 | 0 15 | 1 29 | 1 36 | 1 14 | 25 24 | 1 50 | 23 29 | 0 16 | 7 45 | 2 9 | 12 31 | 0 45 | 8 36 | 1 53 | 2 48 | 12 0 | 20 41 | 20 59 | 7 31 | | n.a. |
| M 7 | 5 33 | 0 21 | 4 55 | 0n41 | 1 21 | 2 7 | 1 12 | 25 25 | 1 50 | 23 29 | 0 16 | 7 48 | 2 9 | 12 30 | 0 45 | 8 37 | 1 53 | 2 49 | 11 59 | 20 39 | 20 59 | 7 28 | | n.a. |
| T 8 | 5 56 | 5n 6 | 4 22 | 1 37 | 1 12 | 2 37 | 1 11 | 25 26 | 1 49 | 23 29 | 0 17 | 7 51 | 2 9 | 12 29 | 0 45 | 8 37 | 1 53 | 2 49 | 11 59 | 20 38 | 20 58 | 7 26 | | n.a. |
| W 9 | 6 19 | 10 12 | 3 33 | 2 35 | 1 3 | 3 8 | 1 10 | 25 27 | 1 49 | 23 28 | 0 17 | 7 54 | 2 9 | 12 28 | 0 45 | 8 38 | 1 53 | 2 50 | 11 59 | 20 36 | 20 57 | 7 23 | | n.a. |
| T 10 | 6 41 | 14 38 | 2 30 | 3 33 | 0 54 | 3 38 | 1 8 | 25 27 | 1 48 | 23 28 | 0 17 | 7 57 | 2 9 | 12 27 | 0 45 | 8 39 | 1 53 | 2 50 | 11 59 | 20 35 | 20 57 | 7 21 | | n.a. |
| F 11 | 7 3 | 18 6 | 1 20 | 4 32 | 0 44 | 4 9 | 1 7 | 25 27 | 1 48 | 23 28 | 0 17 | 8 0 | 2 9 | 12 27 | 0 45 | 8 40 | 1 53 | 2 51 | 11 59 | 20 35 | 20 56 | 7 19 | | n.a. |
| S 12 | 7 26 | 20 26 | 0 6 | 5 31 | 0 34 | 4 39 | 1 5 | 25 28 | 1 47 | 23 28 | 0 17 | 8 3 | 2 9 | 12 26 | 0 45 | 8 41 | 1 53 | 2 52 | 11 59 | 20 35 | 20 55 | 7 16 | | n.a. |
| S 13 | 7 48 | 21 32 | 1s 5 | 6 31 | 0 24 | 5 9 | 1 4 | 25 28 | 1 47 | 23 28 | 0 17 | 8 6 | 2 9 | 12 25 | 0 45 | 8 41 | 1 53 | 2 52 | 11 59 | 20 35 | 20 55 | 7 14 | | n.a. |
| M14 | 8 10 | 21 27 | 2 11 | 7 30 | 0 14 | 5 40 | 1 2 | 25 28 | 1 46 | 23 28 | 0 18 | 8 9 | 2 9 | 12 24 | 0 45 | 8 42 | 1 53 | 2 53 | 11 59 | 20 35 | 20 54 | 7 12 | | n.a. |
| T 15 | 8 32 | 20 17 | 3 9 | 8 30 | 0 3 | 6 10 | 1 0 | 25 28 | 1 45 | 23 27 | 0 18 | 8 12 | 2 9 | 12 23 | 0 45 | 8 43 | 1 53 | 2 53 | 11 58 | 20 35 | 20 54 | 7 9 | | n.a. |
| W16 | 8 53 | 18 12 | 3 57 | 9 28 | 0n 7 | 6 39 | 0 59 | 25 27 | 1 45 | 23 27 | 0 18 | 8 15 | 2 9 | 12 22 | 0 45 | 8 44 | 1 53 | 2 54 | 11 58 | 20 35 | 20 53 | 7 7 | | n.a. |
| T 17 | 9 15 | 15 20 | 4 34 | 10 27 | 0 18 | 7 9 | 0 57 | 25 27 | 1 44 | 23 27 | 0 18 | 8 18 | 2 9 | 12 22 | 0 45 | 8 45 | 1 53 | 2 54 | 11 58 | 20 35 | 20 52 | 7 4 | | n.a. |
| F 18 | 9 37 | 11 53 | 4 58 | 11 24 | 0 29 | 7 39 | 0 55 | 25 26 | 1 44 | 23 27 | 0 18 | 8 20 | 2 9 | 12 21 | 0 45 | 8 46 | 1 53 | 2 55 | 11 58 | 20 35 | 20 52 | 7 2 | | n.a. |
| S 19 | 9 58 | 7 59 | 5 10 | 12 21 | 0 39 | 8 8 | 0 53 | 25 25 | 1 43 | 23 27 | 0 19 | 8 23 | 2 9 | 12 20 | 0 45 | 8 46 | 1 53 | 2 55 | 11 58 | 20 34 | 20 51 | 7 0 | | n.a. |
| S 20 | 10 19 | 3 46 | 5 8 | 13 16 | 0 49 | 8 37 | 0 51 | 25 25 | 1 43 | 23 27 | 0 19 | 8 26 | 2 9 | 12 19 | 0 45 | 8 47 | 1 53 | 2 56 | 11 58 | 20 33 | 20 50 | 6 57 | | n.a. |
| M21 | 10 40 | 0s36 | 4 53 | 14 9 | 0 59 | 9 6 | 0 49 | 25 24 | 1 42 | 23 27 | 0 19 | 8 29 | 2 9 | 12 18 | 0 45 | 8 48 | 1 53 | 2 56 | 11 58 | 20 32 | 20 50 | 6 55 | | n.a. |
| T 22 | 11 1 | 5 1 | 4 25 | 15 1 | 1 8 | 9 35 | 0 47 | 25 22 | 1 42 | 23 27 | 0 19 | 8 32 | 2 9 | 12 18 | 0 45 | 8 49 | 1 53 | 2 57 | 11 58 | 20 31 | 20 49 | 6 53 | | n.a. |
| W23 | 11 21 | 9 17 | 3 44 | 15 51 | 1 17 | 10 4 | 0 45 | 25 21 | 1 41 | 23 27 | 0 19 | 8 35 | 2 9 | 12 17 | 0 45 | 8 50 | 1 53 | 2 57 | 11 58 | 20 30 | 20 48 | 6 50 | | n.a. |
| T 24 | 11 42 | 13 14 | 2 52 | 16 39 | 1 26 | 10 32 | 0 43 | 25 20 | 1 41 | 23 27 | 0 20 | 8 38 | 2 8 | 12 16 | 0 45 | 8 50 | 1 53 | 2 58 | 11 58 | 20 29 | 20 48 | 6 48 | | n.a. |
| F 25 | 12 2 | 16 39 | 1 51 | 17 25 | 1 34 | 11 1 | 0 41 | 25 18 | 1 40 | 23 27 | 0 20 | 8 41 | 2 8 | 12 16 | 0 45 | 8 51 | 1 53 | 2 58 | 11 58 | 20 28 | 20 47 | 6 45 | | n.a. |
| S 26 | 12 22 | 19 19 | 0 43 | 18 8 | 1 41 | 11 28 | 0 39 | 25 16 | 1 40 | 23 27 | 0 20 | 8 43 | 2 8 | 12 15 | 0 45 | 8 52 | 1 53 | 2 59 | 11 57 | 20 28 | 20 47 | 6 43 | | n.a. |
| S 27 | 12 42 | 21 1 | 0n29 | 18 50 | 1 48 | 11 56 | 0 37 | 25 14 | 1 39 | 23 27 | 0 20 | 8 46 | 2 8 | 12 14 | 0 45 | 8 53 | 1 53 | 2 59 | 11 57 | 20 28 | 20 46 | 6 41 | | n.a. |
| M28 | 13 2 | 21 35 | 1 40 | 19 28 | 1 54 | 12 23 | 0 35 | 25 12 | 1 39 | 23 27 | 0 20 | 8 49 | 2 8 | 12 14 | 0 45 | 8 54 | 1 53 | 2 59 | 11 57 | 20 28 | 20 45 | 6 38 | | n.a. |
| T 29 | 13 21 | 20 54 | 2 47 | 20 5 | 1 59 | 12 50 | 0 33 | 25 10 | 1 38 | 23 27 | 0 21 | 8 52 | 2 8 | 12 13 | 0 45 | 8 54 | 1 53 | 3 0 | 11 57 | 20 28 | 20 45 | 6 36 | | n.a. |
| W30 | 13n41 | 18s59 | 3n45 | 20n39 | 2n 4 | 13n17 | 0s31 | 25n 8 | 1n38 | 23s27 | 0s21 | 8n55 | 2s 8 | 12s12 | 0s45 | 8n55 | 1s53 | 3n 0 | 11s57 | 20s29 | 20s44 | 6n34 | | n.a. |

Julian Day Number = 1687910.5, Delta T = 03h12m01s
Ecliptic obliquity = 23°42'19, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°19'54, Lahiri = - 5°12'54 Julian Calendar 1 Apr. 92 BCE == Greg. Calendar 30 March 092 BCE


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# ASTRODIENST EPHEMERIS for the year 92 BCE
# geocentric

## MAY 92 BCE (-91) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 23 52 | 6♉59'20 | 0♒ 7 | 24♉29 | 7♉32 | 7♋51 | 12♏30 | 28♈13 | 0♓18 | 27♈28 | 8♉ 1 | 0♐30 | 1♐40 | 0♍45 | n.a. | T 1 |
| F 2 | 14 27 49 | 7°56'43 | 14°15 | 26°14 | 8°45 | 8°25 | 12°31 | 28°20 | 0°20 | 27°30 | 8° 2 | 0°R30 | 1°36 | 0°52 | n.a. | F 2 |
| S 3 | 14 31 45 | 8°54'05 | 28°33 | 27°57 | 9°59 | 8°59 | 12°31 | 28°28 | 0°22 | 27°32 | 8° 4 | 0°29 | 1°33 | 0°58 | n.a. | S 3 |
| S 4 | 14 35 42 | 9°51'26 | 12♓59 | 29°36 | 11°13 | 9°33 | 12°R31 | 28°36 | 0°23 | 27°34 | 8° 5 | 0°27 | 1°30 | 1° 5 | n.a. | S 4 |
| M 5 | 14 39 38 | 10°48'46 | 27°28 | 1♊13 | 12°26 | 10° 7 | 12°31 | 28°44 | 0°25 | 27°37 | 8° 7 | 0°25 | 1°27 | 1°12 | n.a. | M 5 |
| T 6 | 14 43 35 | 11°46'06 | 11♈56 | 2°48 | 13°40 | 10°41 | 12°31 | 28°51 | 0°27 | 27°39 | 8° 8 | 0°22 | 1°24 | 1°19 | n.a. | T 6 |
| W 7 | 14 47 32 | 12°43'25 | 26°17 | 4°19 | 14°54 | 11°16 | 12°30 | 28°59 | 0°28 | 27°41 | 8° 9 | 0°20 | 1°20 | 1°25 | n.a. | W 7 |
| T 8 | 14 51 28 | 13°40'43 | 10♉25 | 5°47 | 16° 8 | 11°50 | 12°29 | 29° 7 | 0°30 | 27°43 | 8°11 | 0°18 | 1°17 | 1°32 | n.a. | T 8 |
| F 9 | 14 55 25 | 14°38'01 | 24°17 | 7°13 | 17°21 | 12°25 | 12°29 | 29°14 | 0°31 | 27°45 | 8°12 | 0°D18 | 1°14 | 1°39 | n.a. | F 9 |
| S 10 | 14 59 21 | 15°35'17 | 7♊49 | 8°35 | 18°35 | 12°59 | 12°27 | 29°22 | 0°33 | 27°48 | 8°13 | 0°18 | 1°11 | 1°46 | n.a. | S 10 |
| S 11 | 15 3 18 | 16°32'33 | 20°59 | 9°54 | 19°49 | 13°34 | 12°26 | 29°30 | 0°34 | 27°50 | 8°15 | 0°18 | 1° 8 | 1°52 | n.a. | S 11 |
| M12 | 15 7 14 | 17°29'48 | 3♋50 | 11°11 | 21° 2 | 14° 9 | 12°25 | 29°37 | 0°35 | 27°52 | 8°16 | 0°19 | 1° 5 | 1°59 | n.a. | M12 |
| T 13 | 15 11 11 | 18°27'03 | 16°21 | 12°24 | 22°16 | 14°43 | 12°23 | 29°45 | 0°37 | 27°54 | 8°17 | 0°20 | 1° 1 | 2° 6 | n.a. | T 13 |
| W14 | 15 15 7 | 19°24'16 | 28°37 | 13°34 | 23°30 | 15°18 | 12°21 | 29°53 | 0°38 | 27°56 | 8°19 | 0°21 | 0°58 | 2°12 | n.a. | W14 |
| T 15 | 15 19 4 | 20°21'28 | 10♌41 | 14°41 | 24°43 | 15°53 | 12°19 | 0♉ 0 | 0°39 | 27°58 | 8°20 | 0°22 | 0°55 | 2°19 | n.a. | T 15 |
| F 16 | 15 23 1 | 21°18'40 | 22°37 | 15°45 | 25°57 | 16°28 | 12°17 | 0° 8 | 0°40 | 28° 0 | 8°21 | 0°R22 | 0°52 | 2°26 | n.a. | F 16 |
| S 17 | 15 26 57 | 22°15'50 | 4♍30 | 16°45 | 27°11 | 17° 3 | 12°15 | 0°15 | 0°41 | 28° 2 | 8°23 | 0°22 | 0°49 | 2°33 | n.a. | S 17 |
| S 18 | 15 30 54 | 23°13'00 | 16°26 | 17°42 | 28°24 | 17°38 | 12°12 | 0°23 | 0°42 | 28° 5 | 8°24 | 0°21 | 0°46 | 2°39 | n.a. | S 18 |
| M19 | 15 34 50 | 24°10'09 | 28°26 | 18°36 | 29°38 | 18°13 | 12° 9 | 0°30 | 0°43 | 28° 7 | 8°25 | 0°21 | 0°42 | 2°46 | n.a. | M19 |
| T 20 | 15 38 47 | 25° 7'17 | 10♎37 | 19°25 | 0♊52 | 18°48 | 12° 6 | 0°38 | 0°44 | 28° 9 | 8°27 | 0°20 | 0°39 | 2°53 | n.a. | T 20 |
| W21 | 15 42 43 | 26° 4'25 | 23° 0 | 20°11 | 2° 5 | 19°24 | 12° 3 | 0°45 | 0°45 | 28°11 | 8°28 | 0°19 | 0°36 | 3° 0 | n.a. | W21 |
| T 22 | 15 46 40 | 27° 1'33 | 5♏39 | 20°53 | 3°19 | 19°59 | 12° 0 | 0°52 | 0°46 | 28°13 | 8°29 | 0°19 | 0°33 | 3° 6 | n.a. | T 22 |
| F 23 | 15 50 36 | 27°58'39 | 18°34 | 21°32 | 4°32 | 20°34 | 11°56 | 1° 0 | 0°47 | 28°15 | 8°31 | 0°19 | 0°30 | 3°13 | n.a. | F 23 |
| S 24 | 15 54 33 | 28°55'46 | 1♐45 | 22° 6 | 5°46 | 21°10 | 11°53 | 1° 7 | 0°48 | 28°17 | 8°32 | 0°D19 | 0°26 | 3°20 | n.a. | S 24 |
| S 25 | 15 58 30 | 29°52'52 | 15°13 | 22°36 | 7° 0 | 21°45 | 11°49 | 1°14 | 0°48 | 28°19 | 8°33 | 0°R19 | 0°23 | 3°26 | n.a. | S 25 |
| M26 | 16 2 26 | 0♊49'58 | 28°55 | 23° 2 | 8°13 | 22°21 | 11°45 | 1°21 | 0°49 | 28°21 | 8°35 | 0°19 | 0°20 | 3°33 | n.a. | M26 |
| T 27 | 16 6 23 | 1°47'05 | 12♑49 | 23°23 | 9°27 | 22°56 | 11°41 | 1°29 | 0°50 | 28°23 | 8°36 | 0°19 | 0°17 | 3°40 | n.a. | T 27 |
| W28 | 16 10 19 | 2°44'11 | 26°53 | 23°40 | 10°41 | 23°32 | 11°37 | 1°36 | 0°50 | 28°25 | 8°37 | 0°19 | 0°14 | 3°47 | n.a. | W28 |
| T 29 | 16 14 16 | 3°41'17 | 11♒ 4 | 23°52 | 11°54 | 24° 7 | 11°32 | 1°43 | 0°51 | 28°27 | 8°38 | 0°18 | 0°11 | 3°53 | n.a. | T 29 |
| F 30 | 16 18 12 | 4°38'23 | 25°18 | 24° 0 | 13° 8 | 24°43 | 11°27 | 1°50 | 0°51 | 28°28 | 8°40 | 0°18 | 0° 7 | 4° 0 | n.a. | F 30 |
| S 31 | 16 22 9 | 5♊35'29 | 9♓33 | 24°R 4 | 14♊22 | 25♋19 | 11♑23 | 1♉57 | 0♓52 | 28♈30 | 8♉41 | 0°D18 | 0♐ 4 | 4♍ 7 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| T 1 | 14n 0 | 15s56 | 4n32 | 21n10 | 2n 8 | 13n44 | 0s28 | 25n 5 | 1n37 | 23s27 | 0s21 | 8n58 | 2s 8 | 12s12 | 0s45 | 8n56 | 1s53 | 3n 1 | 11s57 | 20s29 | 20s43 | 6n31 | | | n.a. |
| F 2 | 14 19 | 11 55 | 5 2 | 21 39 | 2 11 | 14 10 | 0 26 | 25 3 | 1 37 | 23 28 | 0 21 | 9 0 | 2 8 | 12 11 | 0 45 | 8 57 | 1 53 | 3 1 | 11 57 | 20 29 | 20 43 | 6 29 | | | n.a. |
| S 3 | 14 37 | 7 12 | 5 14 | 22 5 | 2 14 | 14 36 | 0 24 | 25 0 | 1 36 | 23 28 | 0 21 | 9 3 | 2 8 | 12 10 | 0 45 | 8 58 | 1 53 | 3 2 | 11 57 | 20 29 | 20 42 | 6 26 | | | n.a. |
| S 4 | 14 56 | 2 2 | 5 7 | 22 30 | 2 15 | 15 1 | 0 22 | 24 57 | 1 36 | 23 28 | 0 22 | 9 6 | 2 8 | 12 10 | 0 45 | 8 58 | 1 53 | 3 2 | 11 57 | 20 28 | 20 41 | 6 24 | | | n.a. |
| M 5 | 15 14 | 3n16 | 4 40 | 22 51 | 2 16 | 15 26 | 0 19 | 24 54 | 1 35 | 23 28 | 0 22 | 9 9 | 2 8 | 12 9 | 0 45 | 8 59 | 1 53 | 3 3 | 11 57 | 20 28 | 20 41 | 6 22 | | | n.a. |
| T 6 | 15 32 | 8 23 | 3 56 | 23 11 | 2 17 | 15 51 | 0 17 | 24 51 | 1 35 | 23 28 | 0 22 | 9 11 | 2 8 | 12 9 | 0 45 | 9 0 | 1 53 | 3 3 | 11 57 | 20 27 | 20 40 | 6 19 | | | n.a. |
| W 7 | 15 50 | 13 0 | 2 57 | 23 28 | 2 16 | 16 15 | 0 15 | 24 47 | 1 34 | 23 29 | 0 22 | 9 14 | 2 8 | 12 8 | 0 45 | 9 1 | 1 53 | 3 4 | 11 57 | 20 27 | 20 39 | 6 17 | | | n.a. |
| T 8 | 16 7 | 16 49 | 1 48 | 23 43 | 2 15 | 16 39 | 0 12 | 24 44 | 1 34 | 23 29 | 0 22 | 9 17 | 2 8 | 12 8 | 0 46 | 9 2 | 1 53 | 3 4 | 11 57 | 20 26 | 20 39 | 6 15 | | | n.a. |
| F 9 | 16 24 | 19 35 | 0 33 | 23 56 | 2 13 | 17 2 | 0 10 | 24 40 | 1 33 | 23 29 | 0 23 | 9 20 | 2 8 | 12 7 | 0 46 | 9 2 | 1 53 | 3 4 | 11 57 | 20 26 | 20 38 | 6 12 | | | n.a. |
| S 10 | 16 41 | 21 10 | 0s41 | 24 7 | 2 10 | 17 25 | 0 8 | 24 36 | 1 33 | 23 30 | 0 23 | 9 22 | 2 8 | 12 7 | 0 46 | 9 3 | 1 53 | 3 5 | 11 57 | 20 26 | 20 37 | 6 10 | | | n.a. |
| S 11 | 16 58 | 21 32 | 1 52 | 24 16 | 2 6 | 17 48 | 0 5 | 24 32 | 1 32 | 23 30 | 0 23 | 9 25 | 2 8 | 12 6 | 0 46 | 9 4 | 1 53 | 3 5 | 11 57 | 20 26 | 20 37 | 6 7 | | | n.a. |
| M12 | 17 14 | 20 44 | 2 55 | 24 22 | 2 2 | 18 10 | 0 3 | 24 28 | 1 32 | 23 30 | 0 23 | 9 28 | 2 9 | 12 6 | 0 46 | 9 5 | 1 53 | 3 6 | 11 57 | 20 27 | 20 36 | 6 5 | | | n.a. |
| T 13 | 17 31 | 18 55 | 3 48 | 24 27 | 1 57 | 18 32 | 0 1 | 24 24 | 1 31 | 23 31 | 0 23 | 9 30 | 2 9 | 12 5 | 0 46 | 9 5 | 1 53 | 3 6 | 11 57 | 20 27 | 20 35 | 6 3 | | | n.a. |
| W14 | 17 46 | 16 16 | 4 29 | 24 31 | 1 51 | 18 53 | 0n 2 | 24 19 | 1 31 | 23 31 | 0 24 | 9 33 | 2 9 | 12 5 | 0 46 | 9 6 | 1 53 | 3 7 | 11 57 | 20 27 | 20 35 | 6 0 | | | n.a. |
| T 15 | 18 2 | 12 58 | 4 58 | 24 32 | 1 44 | 19 14 | 0 4 | 24 14 | 1 30 | 23 31 | 0 24 | 9 36 | 2 9 | 12 5 | 0 46 | 9 7 | 1 53 | 3 7 | 11 57 | 20 27 | 20 34 | 5 58 | | | n.a. |
| F 16 | 18 17 | 9 11 | 5 14 | 24 32 | 1 37 | 19 34 | 0 7 | 24 10 | 1 30 | 23 32 | 0 24 | 9 38 | 2 9 | 12 4 | 0 46 | 9 8 | 1 53 | 3 7 | 11 57 | 20 27 | 20 33 | 5 55 | | | n.a. |
| S 17 | 18 32 | 5 4 | 5 16 | 24 31 | 1 29 | 19 53 | 0 9 | 24 5 | 1 29 | 23 32 | 0 24 | 9 41 | 2 9 | 12 4 | 0 46 | 9 8 | 1 53 | 3 8 | 11 57 | 20 27 | 20 33 | 5 53 | | | n.a. |
| S 18 | 18 47 | 0 45 | 5 4 | 24 27 | 1 20 | 20 13 | 0 11 | 24 0 | 1 29 | 23 33 | 0 25 | 9 43 | 2 9 | 12 4 | 0 46 | 9 9 | 1 53 | 3 8 | 11 57 | 20 27 | 20 32 | 5 51 | | | n.a. |
| M19 | 19 1 | 3s38 | 4 39 | 24 23 | 1 11 | 20 31 | 0 14 | 23 54 | 1 28 | 23 33 | 0 25 | 9 46 | 2 9 | 12 3 | 0 46 | 9 10 | 1 53 | 3 8 | 11 57 | 20 27 | 20 31 | 5 48 | | | n.a. |
| T 20 | 19 15 | 7 57 | 4 2 | 24 17 | 1 0 | 20 49 | 0 16 | 23 49 | 1 28 | 23 34 | 0 25 | 9 48 | 2 9 | 12 3 | 0 46 | 9 10 | 1 53 | 3 9 | 11 57 | 20 27 | 20 31 | 5 46 | | | n.a. |
| W21 | 19 29 | 12 1 | 3 12 | 24 10 | 0 50 | 21 7 | 0 18 | 23 43 | 1 27 | 23 34 | 0 25 | 9 51 | 2 9 | 12 3 | 0 46 | 9 11 | 1 53 | 3 9 | 11 57 | 20 27 | 20 30 | 5 44 | | | n.a. |
| T 22 | 19 43 | 15 38 | 2 13 | 24 1 | 0 38 | 21 23 | 0 21 | 23 38 | 1 27 | 23 35 | 0 25 | 9 54 | 2 9 | 12 2 | 0 46 | 9 12 | 1 53 | 3 10 | 11 57 | 20 27 | 20 29 | 5 41 | | | n.a. |
| F 23 | 19 56 | 18 35 | 1 5 | 23 52 | 0 26 | 21 40 | 0 23 | 23 32 | 1 26 | 23 35 | 0 26 | 9 56 | 2 9 | 12 2 | 0 46 | 9 13 | 1 53 | 3 10 | 11 57 | 20 27 | 20 29 | 5 39 | | | n.a. |
| S 24 | 20 9 | 20 37 | 0n 8 | 23 41 | 0 13 | 21 55 | 0 25 | 23 26 | 1 26 | 23 36 | 0 26 | 9 59 | 2 9 | 12 2 | 0 46 | 9 13 | 1 53 | 3 10 | 11 57 | 20 27 | 20 28 | 5 36 | | | n.a. |
| S 25 | 20 21 | 21 31 | 1 22 | 23 30 | 0 0 | 22 10 | 0 28 | 23 20 | 1 25 | 23 36 | 0 26 | 10 1 | 2 9 | 12 2 | 0 46 | 9 14 | 1 53 | 3 11 | 11 57 | 20 27 | 20 27 | 5 34 | | | n.a. |
| M26 | 20 33 | 21 10 | 2 32 | 23 17 | 0s14 | 22 25 | 0 30 | 23 13 | 1 25 | 23 37 | 0 26 | 10 3 | 2 9 | 12 1 | 0 46 | 9 15 | 1 53 | 3 11 | 11 57 | 20 27 | 20 27 | 5 32 | | | n.a. |
| T 27 | 20 45 | 19 31 | 3 34 | 23 4 | 0 28 | 22 39 | 0 32 | 23 7 | 1 24 | 23 37 | 0 26 | 10 6 | 2 9 | 12 1 | 0 46 | 9 15 | 1 53 | 3 11 | 11 58 | 20 26 | 20 26 | 5 29 | | | n.a. |
| W28 | 20 56 | 16 41 | 4 25 | 22 50 | 0 43 | 22 52 | 0 35 | 23 0 | 1 24 | 23 38 | 0 27 | 10 8 | 2 9 | 12 1 | 0 46 | 9 16 | 1 53 | 3 12 | 11 58 | 20 26 | 20 25 | 5 27 | | | n.a. |
| T 29 | 21 7 | 12 51 | 4 59 | 22 36 | 0 58 | 23 4 | 0 37 | 22 53 | 1 23 | 23 39 | 0 27 | 10 11 | 2 9 | 12 1 | 0 46 | 9 17 | 1 53 | 3 12 | 11 58 | 20 26 | 20 25 | 5 25 | | | n.a. |
| F 30 | 21 18 | 8 17 | 5 16 | 22 21 | 1 13 | 23 16 | 0 39 | 22 46 | 1 23 | 23 39 | 0 27 | 10 13 | 2 9 | 12 1 | 0 46 | 9 17 | 1 53 | 3 12 | 11 58 | 20 26 | 20 24 | 5 22 | | | n.a. |
| S 31 | 21n29 | 3s15 | 5n13 | 22n 5 | 1s29 | 23n27 | 0n41 | 22n39 | 1n22 | 23s40 | 0s27 | 10n15 | 2s10 | 12s 1 | 0s46 | 9n18 | 1s53 | 3n13 | 11s58 | 20s26 | 20s23 | 5n20 | | | n.a. |

Julian Day Number = 1687940.5, Delta T = 03h12m00s
Ecliptic obliquity = 23°42'18, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°19'50, Lahiri = - 5°12'50 Julian Calendar 1 May 92 BCE == Greg. Calendar 29 Apr. 092 BCE

The year -91 astronomical counting style corresponds to year 092 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 92 BCE
# geocentric

## JUNE 92 BCE (-91) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 26 5 | 6♊32'36 | 23♓46 | 24°R 2 | 15♊35 | 25♋55 | 11°R18 | 2♉ 4 | 0♓52 | 28♈32 | 8♉42 | 0♐18 | 0♐ 1 | 4♍13 | n.a. | S 1 |
| M 2 | 16 30 2 | 7°29'43 | 7♈55 | 23♊56 | 16°49 | 26°31 | 11♂13 | 2°11 | 0°53 | 28°34 | 8°43 | 0°19 | 29♏58 | 4°20 | n.a. | M 2 |
| T 3 | 16 33 59 | 8°26'50 | 21°57 | 23°46 | 18° 3 | 27° 7 | 11° 7 | 2°18 | 0°53 | 28°36 | 8°45 | 0°19 | 29°55 | 4°27 | n.a. | T 3 |
| W 4 | 16 37 55 | 9°23'58 | 5♉50 | 23°31 | 19°16 | 27°43 | 11° 2 | 2°24 | 0°53 | 28°38 | 8°46 | 0°20 | 29°51 | 4°34 | n.a. | W 4 |
| T 5 | 16 41 52 | 10°21'06 | 19°31 | 23°12 | 20°30 | 28°19 | 10°56 | 2°31 | 0°53 | 28°40 | 8°47 | 0°21 | 29°48 | 4°40 | n.a. | T 5 |
| F 6 | 16 45 48 | 11°18'14 | 3♊ 0 | 22°49 | 21°44 | 28°55 | 10°51 | 2°38 | 0°53 | 28°41 | 8°48 | 0°R21 | 29°45 | 4°47 | n.a. | F 6 |
| S 7 | 16 49 45 | 12°15'22 | 16°13 | 22°23 | 22°57 | 29°31 | 10°45 | 2°45 | 0°54 | 28°43 | 8°49 | 0°20 | 29°42 | 4°54 | n.a. | S 7 |
| S 8 | 16 53 41 | 13°12'30 | 29°11 | 21°53 | 24°11 | 0♌ 7 | 10°39 | 2°51 | 0°54 | 28°45 | 8°50 | 0°19 | 29°39 | 5° 1 | n.a. | S 8 |
| M 9 | 16 57 38 | 14° 9'39 | 11♋53 | 21°20 | 25°25 | 0°44 | 10°33 | 2°58 | 0°R54 | 28°46 | 8°52 | 0°18 | 29°36 | 5° 7 | n.a. | M 9 |
| T 10 | 17 1 35 | 15° 6'48 | 24°20 | 20°45 | 26°38 | 1°20 | 10°26 | 3° 5 | 0°54 | 28°48 | 8°53 | 0°16 | 29°32 | 5°14 | n.a. | T 10 |
| W11 | 17 5 31 | 16° 3'57 | 6♌34 | 20° 8 | 27°52 | 1°57 | 10°20 | 3°11 | 0°53 | 28°50 | 8°54 | 0°13 | 29°29 | 5°21 | n.a. | W11 |
| T 12 | 17 9 28 | 17° 1'05 | 18°37 | 19°29 | 29° 6 | 2°33 | 10°14 | 3°17 | 0°53 | 28°51 | 8°55 | 0°11 | 29°26 | 5°27 | n.a. | T 12 |
| F 13 | 17 13 24 | 17°58'14 | 0♍33 | 18°50 | 0♋19 | 3°10 | 10° 7 | 3°24 | 0°53 | 28°53 | 8°56 | 0°10 | 29°23 | 5°34 | n.a. | F 13 |
| S 14 | 17 17 21 | 18°55'23 | 12°27 | 18°12 | 1°33 | 3°46 | 10° 0 | 3°30 | 0°53 | 28°55 | 8°57 | 0° 9 | 29°20 | 5°41 | n.a. | S 14 |
| S 15 | 17 21 17 | 19°52'33 | 24°21 | 17°34 | 2°47 | 4°23 | 9°54 | 3°36 | 0°53 | 28°56 | 8°58 | 0°D 9 | 29°17 | 5°48 | n.a. | S 15 |
| M16 | 17 25 14 | 20°49'42 | 6♎22 | 16°57 | 4° 0 | 4°59 | 9°47 | 3°43 | 0°52 | 28°58 | 8°59 | 0°10 | 29°13 | 5°54 | n.a. | M16 |
| T 17 | 17 29 10 | 21°46'52 | 18°33 | 16°23 | 5°14 | 5°36 | 9°40 | 3°49 | 0°52 | 28°59 | 9° 0 | 0°11 | 29°10 | 6° 1 | n.a. | T 17 |
| W18 | 17 33 7 | 22°44'02 | 0♏59 | 15°51 | 6°28 | 6°13 | 9°33 | 3°55 | 0°51 | 29° 1 | 9° 2 | 0°12 | 29° 7 | 6° 8 | n.a. | W18 |
| T 19 | 17 37 4 | 23°41'12 | 13°44 | 15°22 | 7°41 | 6°50 | 9°25 | 4° 1 | 0°51 | 29° 2 | 9° 3 | 0°14 | 29° 4 | 6°15 | n.a. | T 19 |
| F 20 | 17 41 0 | 24°38'23 | 26°50 | 14°57 | 8°55 | 7°27 | 9°18 | 4° 7 | 0°50 | 29° 4 | 9° 4 | 0°R15 | 29° 1 | 6°21 | n.a. | F 20 |
| S 21 | 17 44 57 | 25°35'34 | 10♐18 | 14°37 | 10° 9 | 8° 4 | 9°11 | 4°13 | 0°50 | 29° 5 | 9° 5 | 0°14 | 28°57 | 6°28 | n.a. | S 21 |
| S 22 | 17 48 53 | 26°32'46 | 24° 7 | 14°21 | 11°22 | 8°41 | 9° 4 | 4°19 | 0°49 | 29° 7 | 9° 6 | 0°13 | 28°54 | 6°35 | n.a. | S 22 |
| M23 | 17 52 50 | 27°29'58 | 8♑15 | 14°11 | 12°36 | 9°18 | 8°56 | 4°24 | 0°49 | 29° 8 | 9° 7 | 0°10 | 28°51 | 6°41 | n.a. | M23 |
| T 24 | 17 56 46 | 28°27'11 | 22°37 | 14°D 6 | 13°50 | 9°55 | 8°49 | 4°30 | 0°48 | 29° 9 | 9° 7 | 0° 6 | 28°48 | 6°48 | n.a. | T 24 |
| W25 | 18 0 43 | 29°24'26 | 7♒ 8 | 14° 6 | 15° 3 | 10°32 | 8°41 | 4°36 | 0°47 | 29°11 | 9° 8 | 0° 2 | 28°45 | 6°55 | n.a. | W25 |
| T 26 | 18 4 39 | 0♋21'41 | 21°42 | 14°13 | 16°17 | 11° 9 | 8°33 | 4°41 | 0°46 | 29°12 | 9° 9 | 29♏58 | 28°42 | 7° 2 | n.a. | T 26 |
| F 27 | 18 8 36 | 1°18'57 | 6♓12 | 14°25 | 17°31 | 11°46 | 8°26 | 4°47 | 0°45 | 29°13 | 9°10 | 29°55 | 28°38 | 7° 8 | n.a. | F 27 |
| S 28 | 18 12 33 | 2°16'14 | 20°34 | 14°43 | 18°44 | 12°24 | 8°18 | 4°52 | 0°45 | 29°14 | 9°11 | 29°54 | 28°35 | 7°15 | n.a. | S 28 |
| S 29 | 18 16 29 | 3°13'32 | 4♈44 | 15° 7 | 19°58 | 13° 1 | 8°10 | 4°58 | 0°44 | 29°16 | 9°12 | 29°D53 | 28°32 | 7°22 | n.a. | S 29 |
| M30 | 18 20 26 | 4♋10'51 | 18♈42 | 15♊38 | 21♋12 | 13♌38 | 8♑ 3 | 5♉ 3 | 0♓43 | 29♈17 | 9♉13 | 29♏54 | 28♏29 | 7♍28 | n.a. | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21n39 | 1n56 | 4n51 | 21n49 | 1s45 | 23n38 | 0n43 | 22n32 | 1n22 | 23s40 | 0s27 | 10n18 | 2s10 | 12s 1 | 0s46 | 9n19 | 1s53 | 3n13 | 11s58 | 20s26 | 20s23 | 5n17 | | n.a. |
| M 2 | 21 48 | 7 1 | 4 11 | 21 33 | 2 1 | 23 48 | 0 45 | 22 25 | 1 21 | 23 41 | 0 28 | 10 20 | 2 10 | 12 0 | 0 47 | 9 19 | 1 53 | 3 13 | 11 58 | 20 26 | 20 22 | 5 15 | | n.a. |
| T 3 | 21 57 | 11 41 | 3 17 | 21 17 | 2 17 | 23 57 | 0 47 | 22 17 | 1 21 | 23 42 | 0 28 | 10 22 | 2 10 | 12 0 | 0 47 | 9 20 | 1 53 | 3 14 | 11 58 | 20 27 | 20 21 | 5 13 | | n.a. |
| W 4 | 22 6 | 15 41 | 2 12 | 21 0 | 2 32 | 24 5 | 0 49 | 22 9 | 1 20 | 23 42 | 0 28 | 10 25 | 2 10 | 12 0 | 0 47 | 9 20 | 1 53 | 3 14 | 11 58 | 20 27 | 20 21 | 5 10 | | n.a. |
| T 5 | 22 15 | 18 46 | 1 0 | 20 44 | 2 48 | 24 13 | 0 52 | 22 2 | 1 20 | 23 43 | 0 28 | 10 27 | 2 10 | 12 0 | 0 47 | 9 21 | 1 54 | 3 14 | 11 58 | 20 27 | 20 20 | 5 8 | | n.a. |
| F 6 | 22 23 | 20 45 | 0s15 | 20 28 | 3 3 | 24 20 | 0 54 | 21 54 | 1 19 | 23 44 | 0 28 | 10 29 | 2 10 | 12 0 | 0 47 | 9 22 | 1 54 | 3 14 | 11 58 | 20 27 | 20 19 | 5 6 | | n.a. |
| S 7 | 22 31 | 21 33 | 1 27 | 20 12 | 3 17 | 24 26 | 0 55 | 21 45 | 1 19 | 23 44 | 0 29 | 10 31 | 2 10 | 12 0 | 0 47 | 9 22 | 1 54 | 3 15 | 11 58 | 20 27 | 20 19 | 5 3 | | n.a. |
| S 8 | 22 38 | 21 9 | 2 33 | 19 57 | 3 31 | 24 32 | 0 57 | 21 37 | 1 18 | 23 45 | 0 29 | 10 34 | 2 10 | 12 0 | 0 47 | 9 23 | 1 54 | 3 15 | 11 59 | 20 27 | 20 18 | 5 1 | | n.a. |
| M 9 | 22 45 | 19 41 | 3 30 | 19 42 | 3 43 | 24 37 | 0 59 | 21 29 | 1 18 | 23 46 | 0 29 | 10 36 | 2 10 | 12 0 | 0 47 | 9 23 | 1 54 | 3 15 | 11 59 | 20 26 | 20 17 | 4 58 | | n.a. |
| T 10 | 22 52 | 17 18 | 4 16 | 19 28 | 3 55 | 24 41 | 1 1 | 21 20 | 1 17 | 23 46 | 0 29 | 10 38 | 2 11 | 12 0 | 0 47 | 9 24 | 1 54 | 3 15 | 11 59 | 20 26 | 20 17 | 4 56 | | n.a. |
| W11 | 22 58 | 14 11 | 4 49 | 19 15 | 4 6 | 24 44 | 1 3 | 21 11 | 1 17 | 23 47 | 0 29 | 10 40 | 2 11 | 12 0 | 0 47 | 9 24 | 1 54 | 3 16 | 11 59 | 20 25 | 20 16 | 4 54 | | n.a. |
| T 12 | 23 4 | 10 31 | 5 9 | 19 3 | 4 15 | 24 47 | 1 5 | 21 2 | 1 16 | 23 48 | 0 30 | 10 42 | 2 11 | 12 1 | 0 47 | 9 25 | 1 54 | 3 16 | 11 59 | 20 25 | 20 15 | 4 51 | | n.a. |
| F 13 | 23 9 | 6 29 | 5 15 | 18 52 | 4 23 | 24 49 | 1 6 | 20 53 | 1 16 | 23 49 | 0 30 | 10 44 | 2 11 | 12 1 | 0 47 | 9 26 | 1 54 | 3 16 | 11 59 | 20 25 | 20 14 | 4 49 | | n.a. |
| S 14 | 23 14 | 2 14 | 5 8 | 18 42 | 4 29 | 24 50 | 1 8 | 20 44 | 1 15 | 23 49 | 0 30 | 10 46 | 2 11 | 12 1 | 0 47 | 9 26 | 1 54 | 3 16 | 11 59 | 20 24 | 20 14 | 4 47 | | n.a. |
| S 15 | 23 19 | 2s 8 | 4 48 | 18 34 | 4 34 | 24 50 | 1 10 | 20 35 | 1 14 | 23 50 | 0 30 | 10 48 | 2 11 | 12 1 | 0 47 | 9 27 | 1 54 | 3 16 | 11 59 | 20 24 | 20 13 | 4 44 | | n.a. |
| M16 | 23 23 | 6 26 | 4 15 | 18 28 | 4 37 | 24 50 | 1 11 | 20 25 | 1 14 | 23 51 | 0 30 | 10 50 | 2 11 | 12 1 | 0 47 | 9 27 | 1 54 | 3 17 | 12 0 | 20 25 | 20 12 | 4 42 | | n.a. |
| T 17 | 23 27 | 10 34 | 3 30 | 18 23 | 4 39 | 24 49 | 1 13 | 20 16 | 1 13 | 23 51 | 0 31 | 10 52 | 2 11 | 12 1 | 0 47 | 9 28 | 1 54 | 3 17 | 12 0 | 20 25 | 20 12 | 4 40 | | n.a. |
| W18 | 23 30 | 14 21 | 2 34 | 18 20 | 4 38 | 24 47 | 1 14 | 20 6 | 1 13 | 23 52 | 0 31 | 10 54 | 2 11 | 12 1 | 0 47 | 9 28 | 1 54 | 3 17 | 12 0 | 20 25 | 20 11 | 4 37 | | n.a. |
| T 19 | 23 33 | 17 34 | 1 30 | 18 18 | 4 37 | 24 44 | 1 16 | 19 56 | 1 12 | 23 53 | 0 31 | 10 56 | 2 12 | 12 2 | 0 47 | 9 29 | 1 54 | 3 17 | 12 0 | 20 25 | 20 10 | 4 35 | | n.a. |
| F 20 | 23 36 | 19 58 | 0 19 | 18 19 | 4 34 | 24 41 | 1 17 | 19 46 | 1 12 | 23 54 | 0 31 | 10 58 | 2 12 | 12 2 | 0 47 | 9 29 | 1 54 | 3 17 | 12 0 | 20 26 | 20 10 | 4 32 | | n.a. |
| S 21 | 23 38 | 21 20 | 0n55 | 18 21 | 4 29 | 24 37 | 1 18 | 19 36 | 1 11 | 23 54 | 0 31 | 11 0 | 2 12 | 12 2 | 0 47 | 9 30 | 1 54 | 3 18 | 12 0 | 20 26 | 20 9 | 4 30 | | n.a. |
| S 22 | 23 40 | 21 27 | 2 7 | 18 26 | 4 23 | 24 32 | 1 20 | 19 26 | 1 11 | 23 55 | 0 32 | 11 2 | 2 12 | 12 2 | 0 47 | 9 30 | 1 54 | 3 18 | 12 0 | 20 25 | 20 8 | 4 28 | | n.a. |
| M23 | 23 41 | 20 14 | 3 13 | 18 32 | 4 15 | 24 26 | 1 21 | 19 15 | 1 10 | 23 56 | 0 32 | 11 4 | 2 12 | 12 3 | 0 47 | 9 30 | 1 54 | 3 18 | 12 1 | 20 25 | 20 7 | 4 25 | | n.a. |
| T 24 | 23 42 | 17 42 | 4 8 | 18 40 | 4 7 | 24 20 | 1 22 | 19 5 | 1 10 | 23 56 | 0 32 | 11 5 | 2 12 | 12 3 | 0 47 | 9 31 | 1 54 | 3 18 | 12 1 | 20 24 | 20 7 | 4 23 | | n.a. |
| W25 | 23 42 | 14 3 | 4 48 | 18 49 | 3 57 | 24 13 | 1 23 | 18 54 | 1 9 | 23 57 | 0 32 | 11 7 | 2 12 | 12 3 | 0 47 | 9 31 | 1 54 | 3 18 | 12 1 | 20 23 | 20 6 | 4 21 | | n.a. |
| T 26 | 23 42 | 9 33 | 5 9 | 19 1 | 3 46 | 24 5 | 1 24 | 18 43 | 1 9 | 23 58 | 0 32 | 11 9 | 2 13 | 12 4 | 0 47 | 9 32 | 1 55 | 3 18 | 12 1 | 20 22 | 20 5 | 4 18 | | n.a. |
| F 27 | 23 42 | 4 32 | 5 10 | 19 14 | 3 35 | 23 57 | 1 25 | 18 32 | 1 8 | 23 58 | 0 32 | 11 11 | 2 13 | 12 4 | 0 47 | 9 32 | 1 55 | 3 18 | 12 1 | 20 22 | 20 5 | 4 16 | | n.a. |
| S 28 | 23 41 | 0n42 | 4 52 | 19 28 | 3 22 | 23 48 | 1 26 | 18 21 | 1 8 | 23 59 | 0 33 | 11 12 | 2 13 | 12 4 | 0 47 | 9 32 | 1 55 | 3 19 | 12 1 | 20 21 | 20 4 | 4 13 | | n.a. |
| S 29 | 23 40 | 5 49 | 4 17 | 19 44 | 3 9 | 23 38 | 1 27 | 18 10 | 1 7 | 24 0 | 0 33 | 11 14 | 2 13 | 12 5 | 0 48 | 9 33 | 1 55 | 3 19 | 12 1 | 20 21 | 20 3 | 4 11 | | n.a. |
| M30 | 23n38 | 10n34 | 3n26 | 20n 0 | 2s56 | 23n27 | 1n27 | 17n59 | 1n 7 | 24s 0 | 0s33 | 11n16 | 2s13 | 12s 5 | 0s48 | 9n33 | 1s55 | 3n19 | 12s 2 | 20s21 | 20s 3 | 4n 9 | | n.a. |

Julian Day Number = 1687971.5, Delta T = 03h11m59s
Ecliptic obliquity = 23°42'17, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°19'46, Lahiri = - 5°12'45 Julian Calendar 1 June 92 BCE == Greg. Calendar 30 May 092 BCE

The year -91 astronomical counting style corresponds to year 092 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 92 BCE
# geocentric

## JULY 92 BCE (-91) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 24 22 | 5♋ 8'12 | 2♉26 | 16♊14 | 22♋25 | 14♌16 | 7°R55 | 5♉ 8 | 0°R42 | 29♈18 | 9♉14 | 29♏55 | 28♏26 | 7♍35 | n.a. | T 1 |
| W 2 | 18 28 19 | 6° 5'34 | 15°56 | 16°57 | 23°39 | 14°53 | 7♑47 | 5°13 | 0♓41 | 29°19 | 9°15 | 29°56 | 28°23 | 7°42 | n.a. | W 2 |
| T 3 | 18 32 15 | 7° 2'57 | 29°14 | 17°45 | 24°53 | 15°31 | 7°39 | 5°18 | 0°40 | 29°20 | 9°15 | 29°R57 | 28°19 | 7°49 | n.a. | T 3 |
| F 4 | 18 36 12 | 8° 0'22 | 12♊18 | 18°40 | 26° 6 | 16° 8 | 7°32 | 5°23 | 0°38 | 29°21 | 9°16 | 29°56 | 28°16 | 7°55 | n.a. | F 4 |
| S 5 | 18 40 8 | 8°57'48 | 25°11 | 19°40 | 27°20 | 16°46 | 7°24 | 5°28 | 0°37 | 29°22 | 9°17 | 29°54 | 28°13 | 8° 2 | n.a. | S 5 |
| S 6 | 18 44 5 | 9°55'14 | 7♋51 | 20°46 | 28°34 | 17°24 | 7°16 | 5°33 | 0°36 | 29°23 | 9°18 | 29°50 | 28°10 | 8° 9 | n.a. | S 6 |
| M 7 | 18 48 2 | 10°52'42 | 20°20 | 21°58 | 29°47 | 18° 2 | 7° 8 | 5°38 | 0°35 | 29°24 | 9°18 | 29°43 | 28° 7 | 8°16 | n.a. | M 7 |
| T 8 | 18 51 58 | 11°50'11 | 2♌38 | 23°15 | 1♌ 1 | 18°39 | 7° 0 | 5°43 | 0°33 | 29°25 | 9°19 | 29°36 | 28° 3 | 8°22 | n.a. | T 8 |
| W 9 | 18 55 55 | 12°47'41 | 14°46 | 24°37 | 2°14 | 19°17 | 6°53 | 5°47 | 0°32 | 29°26 | 9°20 | 29°28 | 28° 0 | 8°29 | n.a. | W 9 |
| T 10 | 18 59 51 | 13°45'12 | 26°46 | 26° 4 | 3°28 | 19°55 | 6°45 | 5°52 | 0°31 | 29°27 | 9°21 | 29°21 | 27°57 | 8°36 | n.a. | T 10 |
| F 11 | 19 3 48 | 14°42'44 | 8♍40 | 27°35 | 4°42 | 20°33 | 6°37 | 5°56 | 0°29 | 29°28 | 9°21 | 29°14 | 27°54 | 8°42 | n.a. | F 11 |
| S 12 | 19 7 44 | 15°40'18 | 20°32 | 29°11 | 5°55 | 21°11 | 6°30 | 6° 1 | 0°28 | 29°29 | 9°22 | 29° 9 | 27°51 | 8°49 | n.a. | S 12 |
| S 13 | 19 11 41 | 16°37'52 | 2♎24 | 0♋52 | 7° 9 | 21°49 | 6°22 | 6° 5 | 0°26 | 29°30 | 9°23 | 29° 6 | 27°48 | 8°56 | n.a. | S 13 |
| M14 | 19 15 37 | 17°35'27 | 14°23 | 2°36 | 8°22 | 22°27 | 6°15 | 6° 9 | 0°25 | 29°30 | 9°23 | 29°D 5 | 27°44 | 9° 3 | n.a. | M14 |
| T 15 | 19 19 34 | 18°33'03 | 26°31 | 4°23 | 9°36 | 23° 6 | 6° 7 | 6°13 | 0°23 | 29°31 | 9°24 | 29° 5 | 27°41 | 9° 9 | n.a. | T 15 |
| W16 | 19 23 31 | 19°30'40 | 8♏56 | 6°13 | 10°50 | 23°44 | 6° 0 | 6°17 | 0°21 | 29°32 | 9°24 | 29° 6 | 27°38 | 9°16 | n.a. | W16 |
| T 17 | 19 27 27 | 20°28'19 | 21°40 | 8° 6 | 12° 3 | 24°22 | 5°52 | 6°21 | 0°20 | 29°32 | 9°25 | 29° 7 | 27°35 | 9°23 | n.a. | T 17 |
| F 18 | 19 31 24 | 21°25'59 | 4♐49 | 10° 1 | 13°17 | 25° 1 | 5°45 | 6°25 | 0°18 | 29°33 | 9°25 | 29°R 7 | 27°32 | 9°29 | n.a. | F 18 |
| S 19 | 19 35 20 | 22°23'40 | 18°24 | 11°58 | 14°30 | 25°39 | 5°38 | 6°29 | 0°16 | 29°34 | 9°26 | 29° 6 | 27°29 | 9°36 | n.a. | S 19 |
| S 20 | 19 39 17 | 23°21'22 | 2♑27 | 13°56 | 15°44 | 26°17 | 5°31 | 6°32 | 0°15 | 29°34 | 9°26 | 29° 2 | 27°25 | 9°43 | n.a. | S 20 |
| M21 | 19 43 13 | 24°19'06 | 16°53 | 15°56 | 16°57 | 26°56 | 5°24 | 6°36 | 0°13 | 29°35 | 9°27 | 28°56 | 27°22 | 9°50 | n.a. | M21 |
| T 22 | 19 47 10 | 25°16'51 | 1♒39 | 17°56 | 18°11 | 27°34 | 5°17 | 6°39 | 0°11 | 29°35 | 9°27 | 28°48 | 27°19 | 9°56 | n.a. | T 22 |
| W23 | 19 51 7 | 26°14'38 | 16°35 | 19°56 | 19°24 | 28°13 | 5°10 | 6°43 | 0° 9 | 29°36 | 9°28 | 28°39 | 27°16 | 10° 3 | n.a. | W23 |
| T 24 | 19 55 3 | 27°12'26 | 1♓34 | 21°57 | 20°38 | 28°52 | 5° 3 | 6°46 | 0° 7 | 29°36 | 9°28 | 28°31 | 27°13 | 10°10 | n.a. | T 24 |
| F 25 | 19 59 0 | 28°10'16 | 16°26 | 23°58 | 21°51 | 29°30 | 4°57 | 6°49 | 0° 5 | 29°37 | 9°29 | 28°24 | 27° 9 | 10°17 | n.a. | F 25 |
| S 26 | 20 2 56 | 29° 8'08 | 1♈ 3 | 25°58 | 23° 5 | 0♍ 9 | 4°50 | 6°52 | 0° 3 | 29°37 | 9°29 | 28°19 | 27° 6 | 10°23 | n.a. | S 26 |
| S 27 | 20 6 53 | 0♌ 6'02 | 15°22 | 27°57 | 24°18 | 0°48 | 4°44 | 6°55 | 0° 1 | 29°37 | 9°29 | 28°16 | 27° 3 | 10°30 | n.a. | S 27 |
| M28 | 20 10 49 | 1° 3'57 | 29°19 | 29°56 | 25°32 | 1°27 | 4°38 | 6°58 | 29♒59 | 29°38 | 9°30 | 28°D15 | 27° 0 | 10°37 | n.a. | M28 |
| T 29 | 20 14 46 | 2° 1'55 | 12♉55 | 1♌54 | 26°45 | 2° 6 | 4°32 | 7° 1 | 29°57 | 29°38 | 9°30 | 28°15 | 26°57 | 10°43 | n.a. | T 29 |
| W30 | 20 18 42 | 2°59'55 | 26°13 | 3°52 | 27°59 | 2°45 | 4°26 | 7° 3 | 29°55 | 29°38 | 9°30 | 28°R16 | 26°54 | 10°50 | n.a. | W30 |
| T 31 | 20 22 39 | 3♌57'57 | 9♊13 | 5♌48 | 29♌12 | 3♍24 | 4♑20 | 7♉ 6 | 29♒53 | 29♈38 | 9♉31 | 28♏15 | 26♏50 | 10♍57 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23n36 | 14n42 | 2n24 | 20n18 | 2s42 | 23n16 | 1n28 | 17n47 | 1n 6 | 24s 1 | 0s33 | 11n17 | 2s13 | 12s 5 | 0s48 | 9n34 | 1s55 | 3n19 | 12s 2 | 20s21 | 20s 2 | 4n 6 | | n.a. |
| W 2 | 23 34 | 18 0 | 1 16 | 20 37 | 2 27 | 23 4 | 1 29 | 17 36 | 1 6 | 24 2 | 0 33 | 11 19 | 2 14 | 12 6 | 0 48 | 9 34 | 1 55 | 3 19 | 12 2 | 20 22 | 20 1 | 4 4 | | n.a. |
| T 3 | 23 31 | 20 16 | 0 4 | 20 56 | 2 13 | 22 51 | 1 29 | 17 24 | 1 5 | 24 2 | 0 33 | 11 20 | 2 14 | 12 6 | 0 48 | 9 34 | 1 55 | 3 19 | 12 2 | 20 22 | 20 0 | 4 2 | | n.a. |
| F 4 | 23 28 | 21 25 | 1s 7 | 21 15 | 1 58 | 22 38 | 1 30 | 17 12 | 1 5 | 24 3 | 0 33 | 11 22 | 2 14 | 12 7 | 0 48 | 9 35 | 1 55 | 3 19 | 12 2 | 20 22 | 20 0 | 3 59 | | n.a. |
| S 5 | 23 24 | 21 24 | 2 13 | 21 35 | 1 43 | 22 24 | 1 30 | 17 0 | 1 4 | 24 3 | 0 34 | 11 23 | 2 14 | 12 7 | 0 48 | 9 35 | 1 55 | 3 19 | 12 3 | 20 21 | 19 59 | 3 57 | | n.a. |
| S 6 | 23 20 | 20 18 | 3 11 | 21 55 | 1 28 | 22 9 | 1 31 | 16 48 | 1 3 | 24 4 | 0 34 | 11 25 | 2 14 | 12 8 | 0 48 | 9 35 | 1 55 | 3 19 | 12 3 | 20 20 | 19 58 | 3 55 | | n.a. |
| M 7 | 23 15 | 18 12 | 3 59 | 22 14 | 1 13 | 21 54 | 1 31 | 16 36 | 1 3 | 24 4 | 0 34 | 11 26 | 2 14 | 12 8 | 0 48 | 9 35 | 1 55 | 3 19 | 12 3 | 20 19 | 19 58 | 3 52 | | n.a. |
| T 8 | 23 10 | 15 19 | 4 35 | 22 33 | 0 59 | 21 38 | 1 31 | 16 23 | 1 2 | 24 5 | 0 34 | 11 28 | 2 15 | 12 9 | 0 48 | 9 36 | 1 55 | 3 19 | 12 3 | 20 17 | 19 57 | 3 50 | | n.a. |
| W 9 | 23 5 | 11 50 | 4 58 | 22 51 | 0 44 | 21 22 | 1 31 | 16 11 | 1 2 | 24 6 | 0 34 | 11 29 | 2 15 | 12 9 | 0 48 | 9 36 | 1 55 | 3 19 | 12 3 | 20 16 | 19 56 | 3 47 | | n.a. |
| T 10 | 22 59 | 7 54 | 5 8 | 23 9 | 0 30 | 21 5 | 1 32 | 15 58 | 1 1 | 24 6 | 0 34 | 11 30 | 2 15 | 12 10 | 0 48 | 9 36 | 1 55 | 3 19 | 12 3 | 20 14 | 19 55 | 3 45 | | n.a. |
| F 11 | 22 53 | 3 43 | 5 4 | 23 24 | 0 17 | 20 47 | 1 32 | 15 46 | 1 1 | 24 7 | 0 34 | 11 32 | 2 15 | 12 10 | 0 48 | 9 37 | 1 55 | 3 19 | 12 4 | 20 13 | 19 55 | 3 43 | | n.a. |
| S 12 | 22 46 | 0s36 | 4 47 | 23 39 | 0 3 | 20 29 | 1 32 | 15 33 | 1 0 | 24 7 | 0 35 | 11 33 | 2 15 | 12 11 | 0 48 | 9 37 | 1 55 | 3 19 | 12 4 | 20 11 | 19 54 | 3 40 | | n.a. |
| S 13 | 22 39 | 4 54 | 4 18 | 23 51 | 0n 9 | 20 10 | 1 31 | 15 20 | 1 0 | 24 8 | 0 35 | 11 34 | 2 15 | 12 11 | 0 48 | 9 37 | 1 56 | 3 19 | 12 4 | 20 11 | 19 53 | 3 38 | | n.a. |
| M14 | 22 32 | 9 4 | 3 37 | 24 2 | 0 21 | 19 50 | 1 31 | 15 7 | 0 59 | 24 8 | 0 35 | 11 35 | 2 16 | 12 12 | 0 48 | 9 37 | 1 56 | 3 19 | 12 4 | 20 11 | 19 52 | 3 36 | | n.a. |
| T 15 | 22 24 | 12 55 | 2 46 | 24 10 | 0 32 | 19 30 | 1 31 | 14 54 | 0 59 | 24 9 | 0 35 | 11 36 | 2 16 | 12 12 | 0 48 | 9 37 | 1 56 | 3 19 | 12 4 | 20 11 | 19 52 | 3 33 | | n.a. |
| W16 | 22 16 | 16 19 | 1 47 | 24 16 | 0 43 | 19 10 | 1 31 | 14 40 | 0 58 | 24 9 | 0 35 | 11 38 | 2 16 | 12 13 | 0 48 | 9 38 | 1 56 | 3 19 | 12 5 | 20 11 | 19 51 | 3 31 | | n.a. |
| T 17 | 22 8 | 19 2 | 0 40 | 24 20 | 0 53 | 18 49 | 1 30 | 14 27 | 0 58 | 24 10 | 0 35 | 11 39 | 2 16 | 12 14 | 0 48 | 9 38 | 1 56 | 3 19 | 12 5 | 20 11 | 19 50 | 3 29 | | n.a. |
| F 18 | 21 59 | 20 50 | 0n31 | 24 21 | 1 2 | 18 27 | 1 30 | 14 13 | 0 57 | 24 10 | 0 35 | 11 40 | 2 16 | 12 14 | 0 48 | 9 38 | 1 56 | 3 19 | 12 5 | 20 11 | 19 50 | 3 26 | | n.a. |
| S 19 | 21 49 | 21 30 | 1 42 | 24 19 | 1 10 | 18 5 | 1 29 | 14 0 | 0 56 | 24 10 | 0 35 | 11 41 | 2 17 | 12 15 | 0 48 | 9 38 | 1 56 | 3 19 | 12 5 | 20 11 | 19 49 | 3 24 | | n.a. |
| S 20 | 21 40 | 20 52 | 2 49 | 24 15 | 1 17 | 17 42 | 1 29 | 13 46 | 0 56 | 24 11 | 0 36 | 11 42 | 2 17 | 12 16 | 0 48 | 9 38 | 1 56 | 3 19 | 12 5 | 20 10 | 19 48 | 3 22 | | n.a. |
| M21 | 21 29 | 18 52 | 3 47 | 24 8 | 1 24 | 17 19 | 1 28 | 13 32 | 0 55 | 24 11 | 0 36 | 11 43 | 2 17 | 12 16 | 0 48 | 9 38 | 1 56 | 3 19 | 12 6 | 20 9 | 19 47 | 3 19 | | n.a. |
| T 22 | 21 19 | 15 36 | 4 31 | 23 58 | 1 30 | 16 56 | 1 27 | 13 18 | 0 55 | 24 12 | 0 36 | 11 44 | 2 17 | 12 17 | 0 48 | 9 39 | 1 56 | 3 19 | 12 6 | 20 7 | 19 47 | 3 17 | | n.a. |
| W23 | 21 8 | 11 18 | 4 58 | 23 46 | 1 34 | 16 32 | 1 27 | 13 4 | 0 54 | 24 12 | 0 36 | 11 45 | 2 17 | 12 18 | 0 48 | 9 39 | 1 56 | 3 19 | 12 6 | 20 5 | 19 46 | 3 14 | | n.a. |
| T 24 | 20 57 | 6 18 | 5 4 | 23 31 | 1 38 | 16 7 | 1 26 | 12 50 | 0 54 | 24 12 | 0 36 | 11 46 | 2 18 | 12 18 | 0 48 | 9 39 | 1 56 | 3 19 | 12 6 | 20 3 | 19 45 | 3 12 | | n.a. |
| F 25 | 20 45 | 0 58 | 4 50 | 23 13 | 1 42 | 15 43 | 1 25 | 12 36 | 0 53 | 24 13 | 0 36 | 11 46 | 2 18 | 12 19 | 0 48 | 9 39 | 1 56 | 3 19 | 12 7 | 20 1 | 19 44 | 3 10 | | n.a. |
| S 26 | 20 33 | 4n20 | 4 17 | 22 54 | 1 44 | 15 17 | 1 24 | 12 22 | 0 53 | 24 13 | 0 36 | 11 47 | 2 18 | 12 20 | 0 48 | 9 39 | 1 56 | 3 19 | 12 7 | 20 0 | 19 44 | 3 7 | | n.a. |
| S 27 | 20 21 | 9 18 | 3 28 | 22 32 | 1 46 | 14 52 | 1 23 | 12 7 | 0 52 | 24 13 | 0 36 | 11 48 | 2 18 | 12 20 | 0 48 | 9 39 | 1 56 | 3 19 | 12 7 | 20 0 | 19 43 | 3 5 | | n.a. |
| M28 | 20 9 | 13 39 | 2 28 | 22 8 | 1 47 | 14 26 | 1 21 | 11 53 | 0 52 | 24 14 | 0 36 | 11 49 | 2 18 | 12 21 | 0 48 | 9 39 | 1 56 | 3 19 | 12 7 | 19 59 | 19 42 | 3 3 | | n.a. |
| T 29 | 19 56 | 17 10 | 1 21 | 21 42 | 1 47 | 13 59 | 1 20 | 11 38 | 0 51 | 24 14 | 0 36 | 11 49 | 2 19 | 12 22 | 0 48 | 9 39 | 1 57 | 3 19 | 12 7 | 19 59 | 19 41 | 3 0 | | n.a. |
| W30 | 19 42 | 19 42 | 0 11 | 21 14 | 1 47 | 13 32 | 1 19 | 11 24 | 0 50 | 24 14 | 0 37 | 11 50 | 2 19 | 12 23 | 0 48 | 9 39 | 1 57 | 3 18 | 12 8 | 20 0 | 19 41 | 2 58 | | n.a. |
| T 31 | 19n29 | 21n 7 | 0s58 | 20n44 | 1n46 | 13n 5 | 1n17 | 11n 9 | 0n50 | 24s15 | 0s37 | 11n51 | 2s19 | 12s23 | 0s48 | 9n39 | 1s57 | 3n18 | 12s 8 | 19s59 | 19s40 | 2n56 | | n.a. |

Julian Day Number = 1688001.5, Delta T = 03h11m59s
Ecliptic obliquity = 23°42'17, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°19'42, Lahiri = - 5°12'41 Julian Calendar 1 July 92 BCE == Greg. Calendar 29 June 092 BCE

The year -91 astronomical counting style corresponds to year 092 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 92 BCE
# geocentric

## AUGUST 92 BCE (-91) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 20 26 35 | 4♌56'00 | 21♊59 | 7♌43 | 0♍25 | 4♍ 3 | 4°R14 | 7♉ 8 | 29°R51 | 29♈39 | 9♉31 | 28°R13 | 26♏47 | 11♍ 4 | n.a. | F 1 |
| S 2 | 20 30 32 | 5°54'06 | 4♋33 | 9°37 | 1°39 | 4°42 | 4♑ 8 | 7°11 | 29♒49 | 29°39 | 9°31 | 28♏ 8 | 26°44 | 11°10 | n.a. | S 2 |
| S 3 | 20 34 29 | 6°52'14 | 16°58 | 11°30 | 2°52 | 5°21 | 4° 3 | 7°13 | 29°47 | 29°39 | 9°31 | 28° 0 | 26°41 | 11°17 | n.a. | S 3 |
| M 4 | 20 38 25 | 7°50'23 | 29°13 | 13°22 | 4° 6 | 6° 0 | 3°58 | 7°15 | 29°45 | 29°39 | 9°32 | 27°49 | 26°38 | 11°24 | n.a. | M 4 |
| T 5 | 20 42 22 | 8°48'35 | 11♌21 | 15°12 | 5°19 | 6°40 | 3°53 | 7°17 | 29°43 | 29°39 | 9°32 | 27°37 | 26°35 | 11°30 | n.a. | T 5 |
| W 6 | 20 46 18 | 9°46'48 | 23°22 | 17° 1 | 6°32 | 7°19 | 3°48 | 7°19 | 29°40 | 29°R39 | 9°32 | 27°24 | 26°31 | 11°37 | n.a. | W 6 |
| T 7 | 20 50 15 | 10°45'03 | 5♍17 | 18°50 | 7°46 | 7°58 | 3°43 | 7°21 | 29°38 | 29°39 | 9°32 | 27°11 | 26°28 | 11°44 | n.a. | T 7 |
| F 8 | 20 54 11 | 11°43'20 | 17° 9 | 20°36 | 8°59 | 8°38 | 3°38 | 7°23 | 29°36 | 29°39 | 9°32 | 26°59 | 26°25 | 11°51 | n.a. | F 8 |
| S 9 | 20 58 8 | 12°41'38 | 28°59 | 22°22 | 10°12 | 9°17 | 3°34 | 7°24 | 29°34 | 29°39 | 9°32 | 26°50 | 26°22 | 11°57 | n.a. | S 9 |
| S 10 | 21 2 4 | 13°39'58 | 10♎50 | 24° 7 | 11°26 | 9°57 | 3°29 | 7°26 | 29°31 | 29°39 | 9°32 | 26°43 | 26°19 | 12° 4 | n.a. | S 10 |
| M11 | 21 6 1 | 14°38'20 | 22°46 | 25°50 | 12°39 | 10°36 | 3°25 | 7°27 | 29°29 | 29°39 | 9°32 | 26°39 | 26°15 | 12°11 | n.a. | M11 |
| T 12 | 21 9 58 | 15°36'43 | 4♏52 | 27°32 | 13°52 | 11°16 | 3°21 | 7°29 | 29°27 | 29°38 | 9°R32 | 26°37 | 26°12 | 12°17 | n.a. | T 12 |
| W13 | 21 13 54 | 16°35'09 | 17°13 | 29°13 | 15° 5 | 11°56 | 3°17 | 7°30 | 29°24 | 29°38 | 9°32 | 26°D37 | 26° 9 | 12°24 | n.a. | W13 |
| T 14 | 21 17 51 | 17°33'36 | 29°53 | 0♍53 | 16°19 | 12°36 | 3°14 | 7°31 | 29°22 | 29°38 | 9°32 | 26°R37 | 26° 6 | 12°31 | n.a. | T 14 |
| F 15 | 21 21 47 | 18°32'04 | 12♐57 | 2°32 | 17°32 | 13°15 | 3°10 | 7°32 | 29°20 | 29°38 | 9°32 | 26°36 | 26° 3 | 12°38 | n.a. | F 15 |
| S 16 | 21 25 44 | 19°30'35 | 26°30 | 4°10 | 18°45 | 13°55 | 3° 7 | 7°33 | 29°17 | 29°37 | 9°32 | 26°33 | 26° 0 | 12°44 | n.a. | S 16 |
| S 17 | 21 29 40 | 20°29'07 | 10♑33 | 5°47 | 19°58 | 14°35 | 3° 4 | 7°33 | 29°15 | 29°37 | 9°32 | 26°28 | 25°56 | 12°51 | n.a. | S 17 |
| M18 | 21 33 37 | 21°27'41 | 25° 4 | 7°23 | 21°11 | 15°15 | 3° 1 | 7°34 | 29°13 | 29°37 | 9°32 | 26°21 | 25°53 | 12°58 | n.a. | M18 |
| T 19 | 21 37 33 | 22°26'17 | 10♒ 0 | 8°57 | 22°24 | 15°55 | 2°58 | 7°35 | 29°10 | 29°36 | 9°32 | 26°11 | 25°50 | 13° 5 | n.a. | T 19 |
| W20 | 21 41 30 | 23°24'55 | 25°12 | 10°31 | 23°38 | 16°35 | 2°56 | 7°35 | 29° 8 | 29°36 | 9°32 | 26° 0 | 25°47 | 13°11 | n.a. | W20 |
| T 21 | 21 45 27 | 24°23'34 | 10♓29 | 12° 3 | 24°51 | 17°16 | 2°54 | 7°35 | 29° 5 | 29°35 | 9°32 | 25°49 | 25°44 | 13°18 | n.a. | T 21 |
| F 22 | 21 49 23 | 25°22'16 | 25°41 | 13°35 | 26° 4 | 17°56 | 2°51 | 7°36 | 29° 3 | 29°35 | 9°31 | 25°39 | 25°40 | 13°25 | n.a. | F 22 |
| S 23 | 21 53 20 | 26°21'01 | 10♈36 | 15° 5 | 27°17 | 18°36 | 2°50 | 7°R36 | 29° 1 | 29°34 | 9°31 | 25°32 | 25°37 | 13°31 | n.a. | S 23 |
| S 24 | 21 57 16 | 27°19'47 | 25° 9 | 16°35 | 28°30 | 19°16 | 2°48 | 7°36 | 28°58 | 29°34 | 9°31 | 25°27 | 25°34 | 13°38 | n.a. | S 24 |
| M25 | 22 1 13 | 28°18'36 | 9♉15 | 18° 3 | 29°43 | 19°57 | 2°46 | 7°36 | 28°56 | 29°33 | 9°31 | 25°25 | 25°31 | 13°45 | n.a. | M25 |
| T 26 | 22 5 9 | 29°17'27 | 22°55 | 19°31 | 0♎56 | 20°37 | 2°45 | 7°35 | 28°53 | 29°32 | 9°30 | 25°25 | 25°28 | 13°52 | n.a. | T 26 |
| W27 | 22 9 6 | 0♍16'21 | 6♊10 | 20°57 | 2° 8 | 21°18 | 2°44 | 7°35 | 28°51 | 29°32 | 9°30 | 25°25 | 25°25 | 13°58 | n.a. | W27 |
| T 28 | 22 13 2 | 1°15'17 | 19° 4 | 22°22 | 3°21 | 21°58 | 2°43 | 7°35 | 28°48 | 29°31 | 9°30 | 25°24 | 25°21 | 14° 5 | n.a. | T 28 |
| F 29 | 22 16 59 | 2°14'16 | 1♋40 | 23°47 | 4°34 | 22°39 | 2°42 | 7°34 | 28°46 | 29°30 | 9°29 | 25°21 | 25°18 | 14°12 | n.a. | F 29 |
| S 30 | 22 20 55 | 3°13'17 | 14° 3 | 25°10 | 5°47 | 23°19 | 2°41 | 7°33 | 28°44 | 29°30 | 9°29 | 25°16 | 25°15 | 14°18 | n.a. | S 30 |
| S 31 | 22 24 52 | 4♍12'20 | 26♋15 | 26♍32 | 7♎ 0 | 24♍ 0 | 2♑41 | 7♉33 | 28♒41 | 29♈29 | 9♉29 | 25♏ 7 | 25♏12 | 14♍25 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 19n15 | 21n25 | 2s 3 | 20n14 | 1n45 | 12n38 | 1n16 | 10n54 | 0n49 | 24s15 | 0s37 | 11n51 | 2s19 | 12s24 | 0s48 | 9n39 | 1s57 | 3n18 | 12s 8 | 19s59 | 19s39 | 2n53 | | n.a. |
| S 2 | 19 0 | 20 37 | 3 0 | 19 41 | 1 43 | 12 10 | 1 14 | 10 39 | 0 49 | 24 15 | 0 37 | 11 52 | 2 19 | 12 25 | 0 48 | 9 39 | 1 57 | 3 18 | 12 8 | 19 58 | 19 39 | 2 51 | | n.a. |
| S 3 | 18 46 | 18 51 | 3 48 | 19 8 | 1 40 | 11 42 | 1 13 | 10 24 | 0 48 | 24 15 | 0 37 | 11 52 | 2 20 | 12 26 | 0 48 | 9 39 | 1 57 | 3 18 | 12 9 | 19 56 | 19 38 | 2 49 | | n.a. |
| M 4 | 18 31 | 16 13 | 4 25 | 18 33 | 1 37 | 11 13 | 1 11 | 10 9 | 0 48 | 24 16 | 0 37 | 11 53 | 2 20 | 12 27 | 0 48 | 9 39 | 1 57 | 3 18 | 12 9 | 19 54 | 19 37 | 2 46 | | n.a. |
| T 5 | 18 15 | 12 56 | 4 49 | 17 57 | 1 34 | 10 44 | 1 10 | 9 54 | 0 47 | 24 16 | 0 37 | 11 53 | 2 20 | 12 27 | 0 49 | 9 39 | 1 57 | 3 18 | 12 9 | 19 51 | 19 36 | 2 44 | | n.a. |
| W 6 | 18 0 | 9 10 | 5 0 | 17 20 | 1 30 | 10 15 | 1 8 | 9 38 | 0 47 | 24 16 | 0 37 | 11 54 | 2 20 | 12 28 | 0 49 | 9 39 | 1 57 | 3 17 | 12 9 | 19 48 | 19 36 | 2 42 | | n.a. |
| T 7 | 17 44 | 5 4 | 4 58 | 16 42 | 1 26 | 9 46 | 1 6 | 9 23 | 0 46 | 24 16 | 0 37 | 11 54 | 2 20 | 12 29 | 0 49 | 9 39 | 1 57 | 3 17 | 12 9 | 19 45 | 19 35 | 2 39 | | n.a. |
| F 8 | 17 28 | 0 48 | 4 43 | 16 4 | 1 21 | 9 17 | 1 4 | 9 7 | 0 45 | 24 16 | 0 37 | 11 55 | 2 21 | 12 30 | 0 49 | 9 39 | 1 57 | 3 17 | 12 10 | 19 42 | 19 34 | 2 37 | | n.a. |
| S 9 | 17 11 | 3s29 | 4 16 | 15 25 | 1 16 | 8 47 | 1 2 | 8 52 | 0 45 | 24 17 | 0 37 | 11 55 | 2 21 | 12 31 | 0 49 | 9 39 | 1 57 | 3 17 | 12 10 | 19 40 | 19 33 | 2 35 | | n.a. |
| S 10 | 16 54 | 7 39 | 3 37 | 14 45 | 1 11 | 8 17 | 1 0 | 8 36 | 0 44 | 24 17 | 0 37 | 11 55 | 2 21 | 12 31 | 0 49 | 9 39 | 1 57 | 3 17 | 12 10 | 19 38 | 19 33 | 2 32 | | n.a. |
| M11 | 16 37 | 11 34 | 2 49 | 14 5 | 1 6 | 7 47 | 0 58 | 8 21 | 0 44 | 24 17 | 0 37 | 11 56 | 2 21 | 12 32 | 0 49 | 9 38 | 1 57 | 3 16 | 12 10 | 19 37 | 19 32 | 2 30 | | n.a. |
| T 12 | 16 20 | 15 3 | 1 52 | 13 24 | 1 0 | 7 16 | 0 56 | 8 5 | 0 43 | 24 17 | 0 37 | 11 56 | 2 22 | 12 33 | 0 49 | 9 38 | 1 57 | 3 16 | 12 11 | 19 37 | 19 31 | 2 28 | | n.a. |
| W13 | 16 2 | 17 57 | 0 50 | 12 43 | 0 54 | 6 46 | 0 54 | 7 49 | 0 43 | 24 17 | 0 37 | 11 56 | 2 22 | 12 34 | 0 49 | 9 38 | 1 57 | 3 16 | 12 11 | 19 37 | 19 30 | 2 25 | | n.a. |
| T 14 | 15 44 | 20 4 | 0n17 | 12 1 | 0 48 | 6 15 | 0 51 | 7 33 | 0 42 | 24 17 | 0 37 | 11 56 | 2 22 | 12 35 | 0 49 | 9 38 | 1 58 | 3 16 | 12 11 | 19 37 | 19 30 | 2 23 | | n.a. |
| F 15 | 15 26 | 21 12 | 1 25 | 11 20 | 0 42 | 5 44 | 0 49 | 7 17 | 0 41 | 24 17 | 0 38 | 11 56 | 2 22 | 12 36 | 0 49 | 9 38 | 1 58 | 3 16 | 12 11 | 19 37 | 19 29 | 2 21 | | n.a. |
| S 16 | 15 8 | 21 9 | 2 31 | 10 38 | 0 35 | 5 13 | 0 47 | 7 1 | 0 41 | 24 18 | 0 38 | 11 56 | 2 22 | 12 36 | 0 49 | 9 38 | 1 58 | 3 15 | 12 11 | 19 36 | 19 28 | 2 18 | | n.a. |
| S 17 | 14 49 | 19 48 | 3 30 | 9 56 | 0 28 | 4 42 | 0 44 | 6 45 | 0 40 | 24 18 | 0 38 | 11 56 | 2 23 | 12 37 | 0 49 | 9 38 | 1 58 | 3 15 | 12 12 | 19 35 | 19 27 | 2 16 | | n.a. |
| M18 | 14 30 | 17 8 | 4 17 | 9 14 | 0 21 | 4 10 | 0 42 | 6 29 | 0 40 | 24 18 | 0 38 | 11 56 | 2 23 | 12 38 | 0 49 | 9 37 | 1 58 | 3 15 | 12 12 | 19 33 | 19 27 | 2 14 | | n.a. |
| T 19 | 14 11 | 13 18 | 4 49 | 8 31 | 0 14 | 3 39 | 0 39 | 6 13 | 0 39 | 24 18 | 0 38 | 11 56 | 2 23 | 12 39 | 0 49 | 9 37 | 1 58 | 3 15 | 12 12 | 19 31 | 19 26 | 2 11 | | n.a. |
| W20 | 13 52 | 8 33 | 5 0 | 7 49 | 0 7 | 3 7 | 0 37 | 5 56 | 0 39 | 24 18 | 0 38 | 11 56 | 2 23 | 12 40 | 0 49 | 9 37 | 1 58 | 3 14 | 12 12 | 19 28 | 19 25 | 2 9 | | n.a. |
| T 21 | 13 32 | 3 14 | 4 51 | 7 7 | 0s 0 | 2 35 | 0 34 | 5 40 | 0 38 | 24 18 | 0 38 | 11 56 | 2 24 | 12 41 | 0 49 | 9 37 | 1 58 | 3 14 | 12 13 | 19 25 | 19 24 | 2 7 | | n.a. |
| F 22 | 13 12 | 2n14 | 4 20 | 6 25 | 0 8 | 2 4 | 0 31 | 5 24 | 0 37 | 24 18 | 0 38 | 11 56 | 2 24 | 12 41 | 0 49 | 9 36 | 1 58 | 3 14 | 12 13 | 19 23 | 19 23 | 2 4 | | n.a. |
| S 23 | 12 52 | 7 30 | 3 33 | 5 42 | 0 15 | 1 32 | 0 29 | 5 7 | 0 37 | 24 18 | 0 38 | 11 56 | 2 24 | 12 42 | 0 49 | 9 36 | 1 58 | 3 14 | 12 13 | 19 21 | 19 23 | 2 2 | | n.a. |
| S 24 | 12 32 | 12 12 | 2 33 | 5 1 | 0 23 | 1 0 | 0 26 | 4 51 | 0 36 | 24 18 | 0 38 | 11 56 | 2 24 | 12 43 | 0 49 | 9 36 | 1 58 | 3 13 | 12 13 | 19 20 | 19 22 | 2 0 | | n.a. |
| M25 | 12 12 | 16 4 | 1 24 | 4 19 | 0 30 | 0 28 | 0 23 | 4 34 | 0 36 | 24 18 | 0 38 | 11 55 | 2 24 | 12 44 | 0 49 | 9 36 | 1 58 | 3 13 | 12 13 | 19 20 | 19 21 | 1 57 | | n.a. |
| T 26 | 11 51 | 18 55 | 0 13 | 3 37 | 0 38 | 0s 4 | 0 20 | 4 18 | 0 35 | 24 18 | 0 38 | 11 55 | 2 25 | 12 45 | 0 49 | 9 35 | 1 58 | 3 13 | 12 14 | 19 20 | 19 20 | 1 55 | | n.a. |
| W27 | 11 30 | 20 39 | 0s57 | 2 56 | 0 45 | 0 36 | 0 17 | 4 1 | 0 34 | 24 18 | 0 38 | 11 55 | 2 25 | 12 46 | 0 49 | 9 35 | 1 58 | 3 12 | 12 14 | 19 20 | 19 20 | 1 53 | | n.a. |
| T 28 | 11 9 | 21 14 | 2 2 | 2 15 | 0 53 | 1 8 | 0 14 | 3 44 | 0 34 | 24 19 | 0 38 | 11 54 | 2 25 | 12 47 | 0 49 | 9 35 | 1 58 | 3 12 | 12 14 | 19 19 | 19 19 | 1 50 | | n.a. |
| F 29 | 10 48 | 20 43 | 2 59 | 1 34 | 1 1 | 1 40 | 0 12 | 3 28 | 0 33 | 24 19 | 0 38 | 11 54 | 2 25 | 12 47 | 0 49 | 9 35 | 1 58 | 3 12 | 12 14 | 19 19 | 19 18 | 1 48 | | n.a. |
| S 30 | 10 26 | 19 12 | 3 47 | 0 54 | 1 8 | 2 12 | 0 9 | 3 11 | 0 33 | 24 19 | 0 38 | 11 54 | 2 25 | 12 48 | 0 49 | 9 34 | 1 58 | 3 12 | 12 14 | 19 17 | 19 17 | 1 46 | | n.a. |
| S 31 | 10n 4 | 16n49 | 4s23 | 0n14 | 1s16 | 2s43 | 0n 5 | 2n54 | 0n32 | 24s19 | 0s38 | 11n53 | 2s26 | 12s49 | 0s49 | 9n34 | 1s59 | 3n11 | 12s15 | 19s15 | 19s17 | 1n43 | | n.a. |

Julian Day Number = 1688032.5, Delta T = 03h11m58s
Ecliptic obliquity = 23°42'17, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°19'38, Lahiri = - 5°12'37 Julian Calendar 1 Aug. 92 BCE == Greg. Calendar 30 July 092 BCE

The year -91 astronomical counting style corresponds to year 092 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 92 BCE
# geocentric

## SEPTEMBER 92 BCE (-91) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 22 28 49 | 5♍11'26 | 8♌20 | 27♍52 | 8♎13 | 24♍41 | 2°D41 | 7°R32 | 28°R39 | 29°R28 | 9°R28 | 24°R56 | 25♏ 9 | 14♍32 | n.a. | M 1 |
| T 2 | 22 32 45 | 6°10'33 | 20°19 | 29°12 | 9°26 | 25°22 | 2♑41 | 7♉31 | 28♒36 | 29♈27 | 9♉28 | 24♏43 | 25° 6 | 14°39 | n.a. | T 2 |
| W 3 | 22 36 42 | 7° 9'43 | 2♍14 | 0♎30 | 10°38 | 26° 3 | 2°41 | 7°30 | 28°34 | 29°26 | 9°27 | 24°29 | 25° 2 | 14°45 | n.a. | W 3 |
| T 4 | 22 40 38 | 8° 8'55 | 14° 6 | 1°47 | 11°51 | 26°43 | 2°41 | 7°28 | 28°32 | 29°25 | 9°27 | 24°15 | 24°59 | 14°52 | n.a. | T 4 |
| F 5 | 22 44 35 | 9° 8'09 | 25°57 | 3° 3 | 13° 4 | 27°24 | 2°42 | 7°27 | 28°29 | 29°24 | 9°27 | 24° 2 | 24°56 | 14°59 | n.a. | F 5 |
| S 6 | 22 48 31 | 10° 7'26 | 7♎48 | 4°17 | 14°17 | 28° 5 | 2°43 | 7°26 | 28°27 | 29°23 | 9°26 | 23°52 | 24°53 | 15° 5 | n.a. | S 6 |
| S 7 | 22 52 28 | 11° 6'44 | 19°41 | 5°29 | 15°29 | 28°47 | 2°44 | 7°24 | 28°25 | 29°22 | 9°26 | 23°44 | 24°50 | 15°12 | n.a. | S 7 |
| M 8 | 22 56 24 | 12° 6'04 | 1♏40 | 6°40 | 16°42 | 29°28 | 2°45 | 7°22 | 28°22 | 29°21 | 9°25 | 23°39 | 24°46 | 15°19 | n.a. | M 8 |
| T 9 | 23 0 21 | 13° 5'26 | 13°47 | 7°49 | 17°55 | 0♎ 9 | 2°46 | 7°21 | 28°20 | 29°20 | 9°24 | 23°37 | 24°43 | 15°26 | n.a. | T 9 |
| W10 | 23 4 18 | 14° 4'51 | 26° 7 | 8°56 | 19° 7 | 0°50 | 2°48 | 7°19 | 28°18 | 29°19 | 9°24 | 23°D37 | 24°40 | 15°32 | n.a. | W10 |
| T 11 | 23 8 14 | 15° 4'17 | 8♐44 | 10° 1 | 20°20 | 1°31 | 2°50 | 7°17 | 28°15 | 29°18 | 9°23 | 23°R37 | 24°37 | 15°39 | n.a. | T 11 |
| F 12 | 23 12 11 | 16° 3'45 | 21°43 | 11° 3 | 21°32 | 2°13 | 2°52 | 7°15 | 28°13 | 29°17 | 9°23 | 23°37 | 24°34 | 15°46 | n.a. | F 12 |
| S 13 | 23 16 7 | 17° 3'14 | 5♑ 8 | 12° 3 | 22°45 | 2°54 | 2°54 | 7°12 | 28°11 | 29°16 | 9°22 | 23°36 | 24°31 | 15°52 | n.a. | S 13 |
| S 14 | 23 20 4 | 18° 2'46 | 19° 1 | 13° 0 | 23°57 | 3°36 | 2°56 | 7°10 | 28° 9 | 29°15 | 9°21 | 23°32 | 24°27 | 15°59 | n.a. | S 14 |
| M15 | 23 24 0 | 19° 2'20 | 3♒24 | 13°54 | 25°10 | 4°17 | 2°59 | 7° 8 | 28° 6 | 29°14 | 9°21 | 23°26 | 24°24 | 16° 6 | n.a. | M15 |
| T 16 | 23 27 57 | 20° 1'55 | 18°14 | 14°45 | 26°22 | 4°59 | 3° 2 | 7° 5 | 28° 4 | 29°12 | 9°20 | 23°18 | 24°21 | 16°13 | n.a. | T 16 |
| W17 | 23 31 53 | 21° 1'32 | 3♓23 | 15°32 | 27°34 | 5°41 | 3° 5 | 7° 3 | 28° 2 | 29°11 | 9°19 | 23° 9 | 24°18 | 16°19 | n.a. | W17 |
| T 18 | 23 35 50 | 22° 1'11 | 18°43 | 16°16 | 28°46 | 6°22 | 3° 8 | 7° 0 | 28° 0 | 29°10 | 9°19 | 22°59 | 24°15 | 16°26 | n.a. | T 18 |
| F 19 | 23 39 46 | 23° 0'52 | 4♈ 1 | 16°54 | 29°59 | 7° 4 | 3°11 | 6°57 | 27°58 | 29° 9 | 9°18 | 22°51 | 24°12 | 16°33 | n.a. | F 19 |
| S 20 | 23 43 43 | 24° 0'36 | 19° 7 | 17°28 | 1♏11 | 7°46 | 3°15 | 6°54 | 27°56 | 29° 7 | 9°17 | 22°45 | 24° 8 | 16°39 | n.a. | S 20 |
| S 21 | 23 47 40 | 25° 0'21 | 3♉53 | 17°57 | 2°23 | 8°28 | 3°18 | 6°51 | 27°54 | 29° 6 | 9°16 | 22°41 | 24° 5 | 16°46 | n.a. | S 21 |
| M22 | 23 51 36 | 26° 0'09 | 18°11 | 18°19 | 3°35 | 9°10 | 3°22 | 6°48 | 27°52 | 29° 5 | 9°16 | 22°D39 | 24° 2 | 16°53 | n.a. | M22 |
| T 23 | 23 55 33 | 27° 0'00 | 2♊ 1 | 18°36 | 4°47 | 9°51 | 3°26 | 6°45 | 27°50 | 29° 3 | 9°15 | 22°40 | 23°59 | 17° 0 | n.a. | T 23 |
| W24 | 23 59 29 | 27°59'52 | 15°23 | 18°45 | 5°59 | 10°34 | 3°30 | 6°42 | 27°48 | 29° 2 | 9°14 | 22°41 | 23°56 | 17° 6 | n.a. | W24 |
| T 25 | 0 3 26 | 28°59'47 | 28°20 | 18°R46 | 7°11 | 11°16 | 3°35 | 6°39 | 27°46 | 29° 0 | 9°13 | 22°R41 | 23°52 | 17°13 | n.a. | T 25 |
| F 26 | 0 7 22 | 29°59'45 | 10♋55 | 18°40 | 8°23 | 11°58 | 3°39 | 6°35 | 27°44 | 28°59 | 9°12 | 22°40 | 23°49 | 17°20 | n.a. | F 26 |
| S 27 | 0 11 19 | 0♎59'44 | 23°15 | 18°25 | 9°35 | 12°40 | 3°44 | 6°32 | 27°42 | 28°58 | 9°12 | 22°38 | 23°46 | 17°26 | n.a. | S 27 |
| S 28 | 0 15 15 | 1°59'46 | 5♌22 | 18° 1 | 10°47 | 13°22 | 3°49 | 6°28 | 27°40 | 28°56 | 9°11 | 22°33 | 23°43 | 17°33 | n.a. | S 28 |
| M29 | 0 19 12 | 2°59'50 | 17°21 | 17°28 | 11°59 | 14° 5 | 3°54 | 6°25 | 27°38 | 28°55 | 9°10 | 22°26 | 23°40 | 17°40 | n.a. | M29 |
| T 30 | 0 23 9 | 3♎59'56 | 29♌14 | 16♎45 | 13♏11 | 14♎47 | 4♑ 0 | 6♉21 | 27♒36 | 28♈53 | 9♉ 9 | 22♏17 | 23♏37 | 17♍47 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 9n43 | 13n45 | 4s48 | 0s25 | 1s24 | 3s15 | 0n 2 | 2n37 | 0n32 | 24s19 | 0s38 | 11n53 | 2s26 | 12s50 | 0s49 | 9n34 | 1s59 | 3n11 | 12s15 | 19s13 | 19s16 | 1n41 | | n.a. |
| T 2 | 9 21 | 10 9 | 4 59 | 1 4 | 1 31 | 3 47 | 0s 1 | 2 20 | 0 31 | 24 19 | 0 38 | 11 52 | 2 26 | 12 51 | 0 49 | 9 33 | 1 59 | 3 11 | 12 15 | 19 9 | 19 15 | 1 39 | | n.a. |
| W 3 | 8 59 | 6 10 | 4 57 | 1 43 | 1 39 | 4 19 | 0 4 | 2 3 | 0 30 | 24 19 | 0 38 | 11 52 | 2 26 | 12 52 | 0 49 | 9 33 | 1 59 | 3 10 | 12 15 | 19 6 | 19 14 | 1 36 | | n.a. |
| T 4 | 8 36 | 1 59 | 4 43 | 2 20 | 1 46 | 4 51 | 0 7 | 1 46 | 0 30 | 24 19 | 0 38 | 11 51 | 2 26 | 12 52 | 0 49 | 9 32 | 1 59 | 3 10 | 12 15 | 19 3 | 19 13 | 1 34 | | n.a. |
| F 5 | 8 14 | 2s16 | 4 16 | 2 57 | 1 53 | 5 22 | 0 10 | 1 29 | 0 29 | 24 19 | 0 38 | 11 50 | 2 27 | 12 53 | 0 49 | 9 32 | 1 59 | 3 10 | 12 16 | 18 59 | 19 13 | 1 32 | | n.a. |
| S 6 | 7 51 | 6 27 | 3 37 | 3 34 | 2 0 | 5 54 | 0 13 | 1 12 | 0 29 | 24 19 | 0 38 | 11 50 | 2 27 | 12 54 | 0 49 | 9 32 | 1 59 | 3 9 | 12 16 | 18 57 | 19 12 | 1 29 | | n.a. |
| S 7 | 7 29 | 10 24 | 2 50 | 4 9 | 2 8 | 6 25 | 0 16 | 0 55 | 0 28 | 24 19 | 0 38 | 11 49 | 2 27 | 12 55 | 0 49 | 9 31 | 1 59 | 3 9 | 12 16 | 18 55 | 19 11 | 1 27 | | n.a. |
| M 8 | 7 6 | 13 58 | 1 54 | 4 44 | 2 14 | 6 56 | 0 20 | 0 38 | 0 27 | 24 19 | 0 38 | 11 48 | 2 27 | 12 56 | 0 49 | 9 31 | 1 59 | 3 9 | 12 16 | 18 54 | 19 10 | 1 25 | | n.a. |
| T 9 | 6 43 | 16 59 | 0 52 | 5 17 | 2 21 | 7 27 | 0 23 | 0 21 | 0 27 | 24 19 | 0 38 | 11 48 | 2 27 | 12 57 | 0 49 | 9 30 | 1 59 | 3 8 | 12 16 | 18 53 | 19 10 | 1 22 | | n.a. |
| W10 | 6 20 | 19 17 | 0n13 | 5 50 | 2 27 | 7 58 | 0 26 | 0 4 | 0 26 | 24 19 | 0 38 | 11 47 | 2 28 | 12 57 | 0 49 | 9 30 | 1 59 | 3 8 | 12 17 | 18 53 | 19 9 | 1 20 | | n.a. |
| T 11 | 5 57 | 20 42 | 1 20 | 6 21 | 2 34 | 8 29 | 0 29 | 0s13 | 0 26 | 24 19 | 0 38 | 11 46 | 2 28 | 12 58 | 0 49 | 9 30 | 1 59 | 3 8 | 12 17 | 18 53 | 19 8 | 1 18 | | n.a. |
| F 12 | 5 33 | 21 3 | 2 24 | 6 52 | 2 40 | 8 59 | 0 33 | 0 31 | 0 25 | 24 18 | 0 38 | 11 45 | 2 28 | 12 59 | 0 49 | 9 29 | 1 59 | 3 7 | 12 17 | 18 53 | 19 7 | 1 15 | | n.a. |
| S 13 | 5 10 | 20 14 | 3 22 | 7 21 | 2 45 | 9 30 | 0 36 | 0 48 | 0 24 | 24 18 | 0 38 | 11 44 | 2 28 | 13 0 | 0 49 | 9 29 | 1 59 | 3 7 | 12 17 | 18 53 | 19 6 | 1 13 | | n.a. |
| S 14 | 4 47 | 18 12 | 4 11 | 7 48 | 2 50 | 10 0 | 0 39 | 1 5 | 0 24 | 24 18 | 0 38 | 11 43 | 2 28 | 13 0 | 0 49 | 9 28 | 1 59 | 3 7 | 12 17 | 18 52 | 19 6 | 1 11 | | n.a. |
| M15 | 4 23 | 14 59 | 4 46 | 8 14 | 2 55 | 10 30 | 0 43 | 1 22 | 0 23 | 24 18 | 0 38 | 11 42 | 2 28 | 13 1 | 0 49 | 9 28 | 1 59 | 3 6 | 12 17 | 18 50 | 19 5 | 1 8 | | n.a. |
| T 16 | 3 59 | 10 44 | 5 3 | 8 38 | 3 0 | 11 0 | 0 46 | 1 39 | 0 22 | 24 18 | 0 38 | 11 42 | 2 29 | 13 2 | 0 48 | 9 27 | 1 59 | 3 6 | 12 18 | 18 48 | 19 4 | 1 6 | | n.a. |
| W17 | 3 36 | 5 44 | 4 59 | 9 0 | 3 4 | 11 29 | 0 49 | 1 57 | 0 22 | 24 18 | 0 38 | 11 41 | 2 29 | 13 3 | 0 48 | 9 27 | 1 59 | 3 5 | 12 18 | 18 46 | 19 3 | 1 4 | | n.a. |
| T 18 | 3 12 | 0 19 | 4 34 | 9 20 | 3 7 | 11 58 | 0 52 | 2 14 | 0 21 | 24 18 | 0 38 | 11 39 | 2 29 | 13 3 | 0 48 | 9 26 | 1 59 | 3 5 | 12 18 | 18 43 | 19 2 | 1 2 | | n.a. |
| F 19 | 2 48 | 5n 7 | 3 49 | 9 38 | 3 10 | 12 27 | 0 56 | 2 31 | 0 21 | 24 18 | 0 38 | 11 38 | 2 29 | 13 4 | 0 48 | 9 26 | 1 59 | 3 5 | 12 18 | 18 41 | 19 2 | 0 59 | | n.a. |
| S 20 | 2 24 | 10 10 | 2 49 | 9 53 | 3 12 | 12 56 | 0 59 | 2 48 | 0 20 | 24 18 | 0 38 | 11 37 | 2 29 | 13 5 | 0 48 | 9 25 | 1 59 | 3 4 | 12 18 | 18 40 | 19 1 | 0 57 | | n.a. |
| S 21 | 2 0 | 14 30 | 1 39 | 10 5 | 3 13 | 13 24 | 1 2 | 3 6 | 0 19 | 24 18 | 0 38 | 11 36 | 2 29 | 13 6 | 0 48 | 9 25 | 2 0 | 3 4 | 12 18 | 18 39 | 19 0 | 0 55 | | n.a. |
| M22 | 1 36 | 17 49 | 0 24 | 10 14 | 3 13 | 13 52 | 1 5 | 3 23 | 0 19 | 24 18 | 0 38 | 11 35 | 2 30 | 13 6 | 0 48 | 9 24 | 2 0 | 3 4 | 12 19 | 18 38 | 18 59 | 0 52 | | n.a. |
| T 23 | 1 12 | 19 59 | 0s50 | 10 19 | 3 12 | 14 20 | 1 9 | 3 40 | 0 18 | 24 18 | 0 38 | 11 34 | 2 30 | 13 7 | 0 48 | 9 24 | 2 0 | 3 3 | 12 19 | 18 38 | 18 59 | 0 50 | | n.a. |
| W24 | 0 48 | 20 55 | 1 59 | 10 21 | 3 10 | 14 48 | 1 12 | 3 57 | 0 18 | 24 18 | 0 38 | 11 33 | 2 30 | 13 8 | 0 48 | 9 23 | 2 0 | 3 3 | 12 19 | 18 39 | 18 58 | 0 48 | | n.a. |
| T 25 | 0 24 | 20 42 | 2 59 | 10 19 | 3 7 | 15 15 | 1 15 | 4 15 | 0 17 | 24 17 | 0 38 | 11 32 | 2 30 | 13 8 | 0 48 | 9 23 | 2 0 | 3 2 | 12 19 | 18 39 | 18 57 | 0 45 | | n.a. |
| F 26 | 0 0 | 19 26 | 3 50 | 10 12 | 3 3 | 15 41 | 1 18 | 4 32 | 0 16 | 24 17 | 0 38 | 11 30 | 2 30 | 13 9 | 0 48 | 9 22 | 2 0 | 3 2 | 12 19 | 18 39 | 18 56 | 0 43 | | n.a. |
| S 27 | 0s24 | 17 17 | 4 28 | 10 1 | 2 57 | 16 8 | 1 21 | 4 49 | 0 16 | 24 17 | 0 38 | 11 29 | 2 30 | 13 10 | 0 48 | 9 22 | 2 0 | 3 2 | 12 19 | 18 38 | 18 55 | 0 41 | | n.a. |
| S 28 | 0 48 | 14 24 | 4 53 | 9 44 | 2 49 | 16 34 | 1 25 | 5 6 | 0 15 | 24 17 | 0 38 | 11 28 | 2 30 | 13 10 | 0 48 | 9 21 | 2 0 | 3 1 | 12 19 | 18 37 | 18 55 | 0 39 | | n.a. |
| M29 | 1 12 | 10 57 | 5 6 | 9 23 | 2 40 | 16 59 | 1 28 | 5 23 | 0 14 | 24 17 | 0 38 | 11 26 | 2 30 | 13 11 | 0 48 | 9 21 | 2 0 | 3 1 | 12 19 | 18 35 | 18 54 | 0 36 | | n.a. |
| T 30 | 1s36 | 7n 7 | 5s 5 | 8s56 | 2s28 | 17s24 | 1s31 | 5s40 | 0n14 | 24s17 | 0s38 | 11n25 | 2s31 | 13s12 | 0s48 | 9n20 | 2s 0 | 3n 0 | 12s20 | 18s33 | 18s53 | 0n34 | | n.a. |

Julian Day Number = 1688063.5, Delta T = 03h11m57s
Ecliptic obliquity = 23°42'17, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°19'33, Lahiri = - 5°12'33 Julian Calendar 1 Sept. 92 BCE == Greg. Calendar 30 Aug. 092 BCE


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# ASTRODIENST EPHEMERIS for the year 92 BCE
# geocentric

## OCTOBER 92 BCE (-91) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 0 27 5 | 5♎ 0'05 | 11♍ 6 | 15°R53 | 14♏23 | 15♎29 | 4♑ 5 | 6°R17 | 27°R34 | 28°R52 | 9°R 8 | 22°R 8 | 23♏33 | 17♍53 | n.a. | W 1 |
| T 2 | 0 31 2 | 6° 0'15 | 22°57 | 14♎54 | 15°34 | 16°12 | 4°11 | 6♉13 | 27♒33 | 28♈50 | 9♉ 7 | 21♏58 | 23°30 | 18° 0 | n.a. | T 2 |
| F 3 | 0 34 58 | 7° 0'27 | 4♎50 | 13°46 | 16°46 | 16°54 | 4°17 | 6° 9 | 27°31 | 28°49 | 9° 6 | 21°50 | 23°27 | 18° 7 | n.a. | F 3 |
| S 4 | 0 38 55 | 8° 0'41 | 16°46 | 12°34 | 17°58 | 17°37 | 4°23 | 6° 5 | 27°29 | 28°47 | 9° 5 | 21°43 | 23°24 | 18°13 | n.a. | S 4 |
| S 5 | 0 42 51 | 9° 0'57 | 28°47 | 11°17 | 19° 9 | 18°20 | 4°29 | 6° 1 | 27°28 | 28°45 | 9° 4 | 21°38 | 23°21 | 18°20 | n.a. | S 5 |
| M 6 | 0 46 48 | 10° 1'15 | 10♏54 | 9°58 | 20°21 | 19° 2 | 4°35 | 5°57 | 27°26 | 28°44 | 9° 3 | 21°35 | 23°17 | 18°27 | n.a. | M 6 |
| T 7 | 0 50 44 | 11° 1'35 | 23°10 | 8°40 | 21°32 | 19°45 | 4°42 | 5°53 | 27°25 | 28°42 | 9° 2 | 21°D35 | 23°14 | 18°33 | n.a. | T 7 |
| W 8 | 0 54 41 | 12° 1'56 | 5♐37 | 7°26 | 22°43 | 20°28 | 4°48 | 5°49 | 27°23 | 28°41 | 9° 1 | 21°36 | 23°11 | 18°40 | n.a. | W 8 |
| T 9 | 0 58 37 | 13° 2'19 | 18°19 | 6°17 | 23°55 | 21°11 | 4°55 | 5°44 | 27°22 | 28°39 | 9° 0 | 21°37 | 23° 8 | 18°47 | n.a. | T 9 |
| F 10 | 1 2 34 | 14° 2'43 | 1♑18 | 5°16 | 25° 6 | 21°54 | 5° 2 | 5°40 | 27°20 | 28°37 | 8°59 | 21°39 | 23° 5 | 18°54 | n.a. | F 10 |
| S 11 | 1 6 31 | 15° 3'09 | 14°39 | 4°24 | 26°17 | 22°37 | 5° 9 | 5°35 | 27°19 | 28°36 | 8°58 | 21°R39 | 23° 2 | 19° 0 | n.a. | S 11 |
| S 12 | 1 10 27 | 16° 3'37 | 28°22 | 3°43 | 27°28 | 23°20 | 5°16 | 5°31 | 27°17 | 28°34 | 8°57 | 21°39 | 22°58 | 19° 7 | n.a. | S 12 |
| M13 | 1 14 24 | 17° 4'05 | 12♒31 | 3°13 | 28°39 | 24° 3 | 5°24 | 5°26 | 27°16 | 28°32 | 8°56 | 21°36 | 22°55 | 19°14 | n.a. | M13 |
| T 14 | 1 18 20 | 18° 4'36 | 27° 2 | 2°56 | 29°50 | 24°46 | 5°31 | 5°22 | 27°15 | 28°31 | 8°55 | 21°33 | 22°52 | 19°20 | n.a. | T 14 |
| W15 | 1 22 17 | 19° 5'07 | 11♓53 | 2°D49 | 1♐ 1 | 25°29 | 5°39 | 5°17 | 27°14 | 28°29 | 8°54 | 21°28 | 22°49 | 19°27 | n.a. | W15 |
| T 16 | 1 26 13 | 20° 5'40 | 26°56 | 2°54 | 2°12 | 26°12 | 5°47 | 5°12 | 27°12 | 28°27 | 8°53 | 21°23 | 22°46 | 19°34 | n.a. | T 16 |
| F 17 | 1 30 10 | 21° 6'14 | 12♈ 3 | 3°10 | 3°23 | 26°56 | 5°55 | 5° 8 | 27°11 | 28°26 | 8°52 | 21°19 | 22°43 | 19°41 | n.a. | F 17 |
| S 18 | 1 34 6 | 22° 6'50 | 27° 4 | 3°35 | 4°33 | 27°39 | 6° 3 | 5° 3 | 27°10 | 28°24 | 8°51 | 21°16 | 22°39 | 19°47 | n.a. | S 18 |
| S 19 | 1 38 3 | 23° 7'28 | 11♉50 | 4° 9 | 5°44 | 28°22 | 6°12 | 4°58 | 27° 9 | 28°22 | 8°50 | 21°14 | 22°36 | 19°54 | n.a. | S 19 |
| M20 | 1 42 0 | 24° 8'07 | 26°14 | 4°51 | 6°54 | 29° 6 | 6°20 | 4°53 | 27° 8 | 28°21 | 8°49 | 21°D14 | 22°33 | 20° 1 | n.a. | M20 |
| T 21 | 1 45 56 | 25° 8'48 | 10♊12 | 5°41 | 8° 5 | 29°49 | 6°29 | 4°49 | 27° 7 | 28°19 | 8°47 | 21°15 | 22°30 | 20° 7 | n.a. | T 21 |
| W22 | 1 49 53 | 26° 9'31 | 23°43 | 6°36 | 9°15 | 0♏33 | 6°37 | 4°44 | 27° 6 | 28°17 | 8°46 | 21°16 | 22°27 | 20°14 | n.a. | W22 |
| T 23 | 1 53 49 | 27°10'16 | 6♋47 | 7°37 | 10°25 | 1°16 | 6°46 | 4°39 | 27° 5 | 28°16 | 8°45 | 21°18 | 22°23 | 20°21 | n.a. | T 23 |
| F 24 | 1 57 46 | 28°11'02 | 19°29 | 8°43 | 11°35 | 2° 0 | 6°55 | 4°34 | 27° 4 | 28°14 | 8°44 | 21°19 | 22°20 | 20°28 | n.a. | F 24 |
| S 25 | 2 1 42 | 29°11'50 | 1♌52 | 9°53 | 12°45 | 2°44 | 7° 4 | 4°29 | 27° 4 | 28°12 | 8°43 | 21°R19 | 22°17 | 20°34 | n.a. | S 25 |
| S 26 | 2 5 39 | 0♏12'39 | 13°59 | 11° 6 | 13°55 | 3°28 | 7°14 | 4°24 | 27° 3 | 28°10 | 8°42 | 21°19 | 22°14 | 20°41 | n.a. | S 26 |
| M27 | 2 9 35 | 1°13'30 | 25°57 | 12°23 | 15° 5 | 4°11 | 7°23 | 4°19 | 27° 2 | 28° 9 | 8°41 | 21°17 | 22°11 | 20°48 | n.a. | M27 |
| T 28 | 2 13 32 | 2°14'23 | 7♍49 | 13°42 | 16°15 | 4°55 | 7°33 | 4°14 | 27° 2 | 28° 7 | 8°40 | 21°14 | 22° 8 | 20°54 | n.a. | T 28 |
| W29 | 2 17 29 | 3°15'17 | 19°40 | 15° 3 | 17°25 | 5°39 | 7°42 | 4° 9 | 27° 1 | 28° 5 | 8°38 | 21°11 | 22° 4 | 21° 1 | n.a. | W29 |
| T 30 | 2 21 25 | 4°16'13 | 1♎32 | 16°26 | 18°34 | 6°23 | 7°52 | 4° 4 | 27° 1 | 28° 4 | 8°37 | 21° 8 | 22° 1 | 21° 8 | n.a. | T 30 |
| F 31 | 2 25 22 | 5♏17'09 | 13♎28 | 17♎51 | 19♐43 | 7♏ 7 | 8♑ 2 | 3♉59 | 27♒ 0 | 28♈ 2 | 8♉36 | 21♏ 6 | 21♏58 | 21♍14 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| W 1 | 2s 1 | 3n 1 | 4s50 | 8s24 | 2s15 | 17s49 | 1s34 | 5s58 | 0n13 | 24s17 | 0s38 | 11n24 | 2s31 | 13s12 | 0s48 | 9n19 | 2s 0 | 3n 0 | 12s20 | 18s30 | 18s52 | 0n32 | | | n.a. |
| T 2 | 2 25 | 1s12 | 4 24 | 7 47 | 2 0 | 18 14 | 1 37 | 6 15 | 0 13 | 24 16 | 0 38 | 11 22 | 2 31 | 13 13 | 0 48 | 9 19 | 2 0 | 3 0 | 12 20 | 18 28 | 18 51 | 0 29 | | | n.a. |
| F 3 | 2 49 | 5 23 | 3 45 | 7 5 | 1 44 | 18 37 | 1 40 | 6 32 | 0 12 | 24 16 | 0 38 | 11 21 | 2 31 | 13 13 | 0 48 | 9 18 | 2 0 | 2 59 | 12 20 | 18 25 | 18 51 | 0 27 | | | n.a. |
| S 4 | 3 13 | 9 23 | 2 57 | 6 20 | 1 26 | 19 1 | 1 43 | 6 49 | 0 11 | 24 16 | 0 38 | 11 20 | 2 31 | 13 14 | 0 48 | 9 18 | 2 0 | 2 59 | 12 20 | 18 24 | 18 50 | 0 25 | | | n.a. |
| S 5 | 3 37 | 13 2 | 2 0 | 5 32 | 1 6 | 19 24 | 1 46 | 7 6 | 0 11 | 24 16 | 0 38 | 11 18 | 2 31 | 13 14 | 0 48 | 9 17 | 2 0 | 2 59 | 12 20 | 18 22 | 18 49 | 0 22 | | | n.a. |
| M 6 | 4 1 | 16 10 | 0 58 | 4 42 | 0 46 | 19 46 | 1 48 | 7 23 | 0 10 | 24 16 | 0 38 | 11 17 | 2 31 | 13 15 | 0 48 | 9 17 | 2 0 | 2 58 | 12 20 | 18 22 | 18 48 | 0 20 | | | n.a. |
| T 7 | 4 25 | 18 38 | 0n 9 | 3 52 | 0 25 | 20 8 | 1 51 | 7 40 | 0 9 | 24 15 | 0 38 | 11 15 | 2 31 | 13 15 | 0 48 | 9 16 | 2 0 | 2 58 | 12 20 | 18 22 | 18 47 | 0 18 | | | n.a. |
| W 8 | 4 48 | 20 14 | 1 16 | 3 3 | 0 5 | 20 29 | 1 54 | 7 57 | 0 9 | 24 15 | 0 38 | 11 14 | 2 31 | 13 16 | 0 48 | 9 15 | 2 0 | 2 57 | 12 20 | 18 22 | 18 46 | 0 16 | | | n.a. |
| T 9 | 5 12 | 20 51 | 2 20 | 2 17 | 0n15 | 20 50 | 1 57 | 8 13 | 0 8 | 24 15 | 0 38 | 11 12 | 2 31 | 13 16 | 0 48 | 9 15 | 2 0 | 2 57 | 12 21 | 18 22 | 18 46 | 0 13 | | | n.a. |
| F 10 | 5 36 | 20 22 | 3 20 | 1 35 | 0 35 | 21 11 | 1 59 | 8 30 | 0 8 | 24 15 | 0 38 | 11 11 | 2 31 | 13 17 | 0 48 | 9 14 | 2 0 | 2 57 | 12 21 | 18 23 | 18 45 | 0 11 | | | n.a. |
| S 11 | 6 0 | 18 45 | 4 9 | 0 58 | 0 53 | 21 31 | 2 2 | 8 47 | 0 7 | 24 14 | 0 38 | 11 9 | 2 31 | 13 17 | 0 48 | 9 14 | 2 0 | 2 56 | 12 21 | 18 23 | 18 44 | 0 9 | | | n.a. |
| S 12 | 6 23 | 16 2 | 4 47 | 0 26 | 1 9 | 21 50 | 2 4 | 9 4 | 0 6 | 24 14 | 0 38 | 11 8 | 2 31 | 13 18 | 0 48 | 9 13 | 2 0 | 2 56 | 12 21 | 18 23 | 18 43 | 0 6 | | | n.a. |
| M13 | 6 47 | 12 19 | 5 8 | 0 1 | 1 24 | 22 8 | 2 7 | 9 20 | 0 6 | 24 14 | 0 38 | 11 6 | 2 32 | 13 18 | 0 48 | 9 12 | 2 0 | 2 55 | 12 21 | 18 22 | 18 42 | 0 4 | | | n.a. |
| T 14 | 7 10 | 7 46 | 5 11 | 0n19 | 1 37 | 22 27 | 2 9 | 9 37 | 0 5 | 24 13 | 0 38 | 11 4 | 2 32 | 13 19 | 0 48 | 9 12 | 2 0 | 2 55 | 12 21 | 18 21 | 18 42 | 0 2 | | | n.a. |
| W15 | 7 33 | 2 41 | 4 53 | 0 31 | 1 48 | 22 44 | 2 12 | 9 54 | 0 4 | 24 13 | 0 38 | 11 3 | 2 32 | 13 19 | 0 48 | 9 11 | 2 0 | 2 55 | 12 21 | 18 20 | 18 41 | 0s 0 | | | n.a. |
| T 16 | 7 56 | 2n39 | 4 14 | 0 38 | 1 58 | 23 1 | 2 14 | 10 10 | 0 4 | 24 13 | 0 38 | 11 1 | 2 32 | 13 19 | 0 48 | 9 11 | 2 0 | 2 54 | 12 21 | 18 19 | 18 40 | 0 3 | | | n.a. |
| F 17 | 8 19 | 7 51 | 3 18 | 0 39 | 2 5 | 23 17 | 2 16 | 10 26 | 0 3 | 24 12 | 0 38 | 11 0 | 2 32 | 13 20 | 0 48 | 9 10 | 2 0 | 2 54 | 12 21 | 18 17 | 18 39 | 0 5 | | | n.a. |
| S 18 | 8 42 | 12 32 | 2 9 | 0 34 | 2 11 | 23 33 | 2 18 | 10 43 | 0 3 | 24 12 | 0 38 | 10 58 | 2 32 | 13 20 | 0 48 | 9 9 | 2 0 | 2 54 | 12 21 | 18 17 | 18 38 | 0 7 | | | n.a. |
| S 19 | 9 5 | 16 22 | 0 51 | 0 24 | 2 16 | 23 48 | 2 20 | 10 59 | 0 2 | 24 12 | 0 38 | 10 56 | 2 32 | 13 20 | 0 48 | 9 9 | 2 0 | 2 53 | 12 21 | 18 16 | 18 38 | 0 9 | | | n.a. |
| M20 | 9 28 | 19 5 | 0s27 | 0 10 | 2 19 | 24 2 | 2 22 | 11 15 | 0 1 | 24 11 | 0 38 | 10 55 | 2 32 | 13 21 | 0 48 | 9 8 | 2 0 | 2 53 | 12 21 | 18 16 | 18 37 | 0 12 | | | n.a. |
| T 21 | 9 50 | 20 32 | 1 42 | 0s 8 | 2 21 | 24 16 | 2 24 | 11 31 | 0 1 | 24 11 | 0 38 | 10 53 | 2 32 | 13 21 | 0 48 | 9 8 | 2 0 | 2 52 | 12 21 | 18 16 | 18 36 | 0 14 | | | n.a. |
| W22 | 10 13 | 20 44 | 2 49 | 0 29 | 2 21 | 24 29 | 2 26 | 11 47 | 0s 0 | 24 10 | 0 38 | 10 52 | 2 32 | 13 21 | 0 48 | 9 7 | 2 0 | 2 52 | 12 21 | 18 17 | 18 35 | 0 16 | | | n.a. |
| T 23 | 10 35 | 19 47 | 3 45 | 0 54 | 2 21 | 24 41 | 2 27 | 12 3 | 0 1 | 24 10 | 0 38 | 10 50 | 2 32 | 13 22 | 0 47 | 9 6 | 2 0 | 2 52 | 12 21 | 18 17 | 18 34 | 0 19 | | | n.a. |
| F 24 | 10 57 | 17 51 | 4 28 | 1 21 | 2 20 | 24 53 | 2 29 | 12 19 | 0 1 | 24 9 | 0 38 | 10 48 | 2 32 | 13 22 | 0 47 | 9 6 | 2 0 | 2 51 | 12 21 | 18 17 | 18 33 | 0 21 | | | n.a. |
| S 25 | 11 19 | 15 8 | 4 57 | 1 51 | 2 17 | 25 4 | 2 31 | 12 35 | 0 2 | 24 9 | 0 38 | 10 47 | 2 32 | 13 22 | 0 47 | 9 5 | 2 0 | 2 51 | 12 21 | 18 18 | 18 33 | 0 23 | | | n.a. |
| S 26 | 11 40 | 11 49 | 5 13 | 2 23 | 2 15 | 25 14 | 2 32 | 12 51 | 0 3 | 24 8 | 0 38 | 10 45 | 2 32 | 13 22 | 0 47 | 9 5 | 2 0 | 2 51 | 12 21 | 18 17 | 18 32 | 0 25 | | | n.a. |
| M27 | 12 2 | 8 5 | 5 14 | 2 56 | 2 11 | 25 24 | 2 33 | 13 6 | 0 3 | 24 8 | 0 38 | 10 43 | 2 32 | 13 22 | 0 47 | 9 4 | 2 0 | 2 50 | 12 21 | 18 17 | 18 31 | 0 28 | | | n.a. |
| T 28 | 12 23 | 4 4 | 5 2 | 3 31 | 2 7 | 25 33 | 2 35 | 13 22 | 0 4 | 24 7 | 0 38 | 10 42 | 2 32 | 13 23 | 0 47 | 9 3 | 2 0 | 2 50 | 12 21 | 18 16 | 18 30 | 0 30 | | | n.a. |
| W29 | 12 44 | 0s 6 | 4 37 | 4 7 | 2 3 | 25 41 | 2 36 | 13 37 | 0 5 | 24 7 | 0 38 | 10 40 | 2 31 | 13 23 | 0 47 | 9 3 | 2 0 | 2 50 | 12 21 | 18 15 | 18 29 | 0 32 | | | n.a. |
| T 30 | 13 5 | 4 17 | 4 1 | 4 43 | 1 58 | 25 49 | 2 37 | 13 53 | 0 5 | 24 6 | 0 38 | 10 39 | 2 31 | 13 23 | 0 47 | 9 2 | 2 0 | 2 49 | 12 21 | 18 15 | 18 28 | 0 34 | | | n.a. |
| F 31 | 13s26 | 8s20 | 3s13 | 5s21 | 1n52 | 25s55 | 2s38 | 14s 8 | 0s 6 | 24s 6 | 0s38 | 10n37 | 2s31 | 13s23 | 0s47 | 9n 1 | 2s 0 | 2n49 | 12s21 | 18s14 | 18s28 | 0s37 | | | n.a. |

Julian Day Number = 1688093.5, Delta T = 03h11m56s
Ecliptic obliquity = 23°42'17, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°19'29, Lahiri = - 5°12'29 Julian Calendar 1 Oct. 92 BCE == Greg. Calendar 29 Sept. 092 BCE

The year -91 astronomical counting style corresponds to year 092 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 92 BCE
# geocentric

## NOVEMBER 92 BCE (-91) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 29 18 | 6♏18'08 | 25♎32 | 19♎17 | 20♐53 | 7♏51 | 8♑12 | 3°R54 | 27°R 0 | 28°R 0 | 8°R35 | 21°R 4 | 21♏55 | 21♍21 | n.a. | S 1 |
| S 2 | 2 33 15 | 7°19'07 | 7♏44 | 20°44 | 22° 2 | 8°35 | 8°22 | 3♉49 | 26♒59 | 27♈59 | 8♉34 | 21♏ 3 | 21°52 | 21°28 | n.a. | S 2 |
| M 3 | 2 37 11 | 8°20'08 | 20° 5 | 22°12 | 23°11 | 9°20 | 8°32 | 3°44 | 26°59 | 27°57 | 8°33 | 21°D 2 | 21°48 | 21°35 | n.a. | M 3 |
| T 4 | 2 41 8 | 9°21'09 | 2♐38 | 23°41 | 24°20 | 10° 4 | 8°43 | 3°39 | 26°59 | 27°55 | 8°32 | 21° 2 | 21°45 | 21°41 | n.a. | T 4 |
| W 5 | 2 45 4 | 10°22'12 | 15°22 | 25°10 | 25°28 | 10°48 | 8°53 | 3°34 | 26°58 | 27°54 | 8°30 | 21° 3 | 21°42 | 21°48 | n.a. | W 5 |
| T 6 | 2 49 1 | 11°23'15 | 28°20 | 26°40 | 26°37 | 11°33 | 9° 4 | 3°30 | 26°58 | 27°52 | 8°29 | 21° 4 | 21°39 | 21°55 | n.a. | T 6 |
| F 7 | 2 52 58 | 12°24'20 | 11♑32 | 28°11 | 27°45 | 12°17 | 9°14 | 3°25 | 26°58 | 27°50 | 8°28 | 21° 5 | 21°36 | 22° 1 | n.a. | F 7 |
| S 8 | 2 56 54 | 13°25'25 | 24°59 | 29°42 | 28°54 | 13° 1 | 9°25 | 3°20 | 26°58 | 27°49 | 8°27 | 21° 6 | 21°33 | 22° 8 | n.a. | S 8 |
| S 9 | 3 0 51 | 14°26'30 | 8♒41 | 1♏13 | 0♑ 2 | 13°46 | 9°36 | 3°15 | 26°D58 | 27°47 | 8°26 | 21°R 6 | 21°29 | 22°15 | n.a. | S 9 |
| M10 | 3 4 47 | 15°27'36 | 22°40 | 2°45 | 1°10 | 14°30 | 9°47 | 3°10 | 26°58 | 27°46 | 8°25 | 21° 6 | 21°26 | 22°22 | n.a. | M10 |
| T 11 | 3 8 44 | 16°28'43 | 6♓54 | 4°17 | 2°18 | 15°15 | 9°58 | 3° 5 | 26°58 | 27°44 | 8°24 | 21° 6 | 21°23 | 22°28 | n.a. | T 11 |
| W12 | 3 12 40 | 17°29'50 | 21°22 | 5°49 | 3°25 | 16° 0 | 10°10 | 3° 1 | 26°58 | 27°42 | 8°22 | 21° 5 | 21°20 | 22°35 | n.a. | W12 |
| T 13 | 3 16 37 | 18°30'57 | 5♈58 | 7°21 | 4°33 | 16°44 | 10°21 | 2°56 | 26°59 | 27°41 | 8°21 | 21° 5 | 21°17 | 22°42 | n.a. | T 13 |
| F 14 | 3 20 33 | 19°32'05 | 20°38 | 8°53 | 5°40 | 17°29 | 10°32 | 2°51 | 26°59 | 27°39 | 8°20 | 21° 5 | 21°14 | 22°48 | n.a. | F 14 |
| S 15 | 3 24 30 | 20°33'14 | 5♉16 | 10°26 | 6°47 | 18°14 | 10°44 | 2°47 | 26°59 | 27°38 | 8°19 | 21° 5 | 21°10 | 22°55 | n.a. | S 15 |
| S 16 | 3 28 27 | 21°34'23 | 19°46 | 11°58 | 7°54 | 18°58 | 10°55 | 2°42 | 26°59 | 27°36 | 8°18 | 21° 5 | 21° 7 | 23° 2 | n.a. | S 16 |
| M17 | 3 32 23 | 22°35'33 | 4♊ 0 | 13°31 | 9° 0 | 19°43 | 11° 7 | 2°38 | 27° 0 | 27°35 | 8°17 | 21° 5 | 21° 4 | 23° 8 | n.a. | M17 |
| T 18 | 3 36 20 | 23°36'43 | 17°55 | 15° 4 | 10° 6 | 20°28 | 11°19 | 2°33 | 27° 0 | 27°33 | 8°16 | 21° 5 | 21° 1 | 23°15 | n.a. | T 18 |
| W19 | 3 40 16 | 24°37'54 | 1♋28 | 16°37 | 11°13 | 21°13 | 11°31 | 2°29 | 27° 1 | 27°32 | 8°15 | 21° 4 | 20°58 | 23°22 | n.a. | W19 |
| T 20 | 3 44 13 | 25°39'06 | 14°37 | 18°11 | 12°18 | 21°58 | 11°43 | 2°24 | 27° 1 | 27°30 | 8°14 | 21° 4 | 20°54 | 23°29 | n.a. | T 20 |
| F 21 | 3 48 9 | 26°40'19 | 27°25 | 19°44 | 13°24 | 22°43 | 11°55 | 2°20 | 27° 2 | 27°29 | 8°12 | 21° 3 | 20°51 | 23°35 | n.a. | F 21 |
| S 22 | 3 52 6 | 27°41'32 | 9♌52 | 21°18 | 14°30 | 23°28 | 12° 7 | 2°16 | 27° 3 | 27°27 | 8°11 | 21° 3 | 20°48 | 23°42 | n.a. | S 22 |
| S 23 | 3 56 3 | 28°42'45 | 22° 3 | 22°52 | 15°35 | 24°13 | 12°19 | 2°12 | 27° 3 | 27°26 | 8°10 | 21° 2 | 20°45 | 23°49 | n.a. | S 23 |
| M24 | 3 59 59 | 29°44'00 | 4♍ 3 | 24°26 | 16°40 | 24°59 | 12°31 | 2° 8 | 27° 4 | 27°25 | 8° 9 | 21°D 2 | 20°42 | 23°55 | n.a. | M24 |
| T 25 | 4 3 56 | 0♐45'14 | 15°56 | 26° 0 | 17°44 | 25°44 | 12°44 | 2° 3 | 27° 5 | 27°23 | 8° 8 | 21° 3 | 20°39 | 24° 2 | n.a. | T 25 |
| W26 | 4 7 52 | 1°46'30 | 27°46 | 27°34 | 18°48 | 26°29 | 12°56 | 2° 0 | 27° 6 | 27°22 | 8° 7 | 21° 3 | 20°35 | 24° 9 | n.a. | W26 |
| T 27 | 4 11 49 | 2°47'45 | 9♎39 | 29° 9 | 19°52 | 27°14 | 13° 9 | 1°56 | 27° 7 | 27°20 | 8° 6 | 21° 4 | 20°32 | 24°15 | n.a. | T 27 |
| F 28 | 4 15 45 | 3°49'02 | 21°39 | 0♐44 | 20°56 | 28° 0 | 13°21 | 1°52 | 27° 8 | 27°19 | 8° 5 | 21° 6 | 20°29 | 24°22 | n.a. | F 28 |
| S 29 | 4 19 42 | 4°50'18 | 3♏48 | 2°19 | 22° 0 | 28°45 | 13°34 | 1°48 | 27° 9 | 27°18 | 8° 4 | 21° 7 | 20°26 | 24°29 | n.a. | S 29 |
| S 30 | 4 23 38 | 5♐51'35 | 16♏11 | 3♐54 | 23♑ 3 | 29♏31 | 13♑47 | 1♉44 | 27♒10 | 27♈17 | 8♉ 3 | 21°R 7 | 20♏23 | 24♍36 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 13s46 | 12s 6 | 2s17 | 5s59 | 1n47 | 26s 2 | 2s39 | 14s23 | 0s 6 | 24s 5 | 0s38 | 10n35 | 2s31 | 13s23 | 0s47 | 9n 1 | 2s 0 | 2n49 | 12s21 | 18s13 | 18s27 | 0s39 | | n.a. |
| S 2 | 14 6 | 15 23 | 1 13 | 6 37 | 1 41 | 26 7 | 2 39 | 14 38 | 0 7 | 24 4 | 0 38 | 10 34 | 2 31 | 13 23 | 0 47 | 9 0 | 2 0 | 2 48 | 12 21 | 18 13 | 18 26 | 0 41 | | n.a. |
| M 3 | 14 26 | 18 3 | 0 5 | 7 16 | 1 35 | 26 11 | 2 40 | 14 53 | 0 8 | 24 4 | 0 38 | 10 32 | 2 31 | 13 23 | 0 47 | 9 0 | 2 0 | 2 48 | 12 21 | 18 13 | 18 25 | 0 43 | | n.a. |
| T 4 | 14 46 | 19 52 | 1n 4 | 7 55 | 1 29 | 26 15 | 2 41 | 15 8 | 0 8 | 24 3 | 0 38 | 10 30 | 2 31 | 13 23 | 0 47 | 8 59 | 2 0 | 2 48 | 12 21 | 18 13 | 18 24 | 0 46 | | n.a. |
| W 5 | 15 6 | 20 43 | 2 11 | 8 34 | 1 22 | 26 18 | 2 41 | 15 22 | 0 9 | 24 2 | 0 38 | 10 29 | 2 31 | 13 23 | 0 47 | 8 59 | 2 0 | 2 47 | 12 21 | 18 13 | 18 23 | 0 48 | | n.a. |
| T 6 | 15 25 | 20 29 | 3 12 | 9 14 | 1 15 | 26 21 | 2 41 | 15 37 | 0 10 | 24 2 | 0 38 | 10 27 | 2 31 | 13 24 | 0 47 | 8 58 | 2 0 | 2 47 | 12 21 | 18 13 | 18 23 | 0 50 | | n.a. |
| F 7 | 15 44 | 19 8 | 4 5 | 9 53 | 1 9 | 26 23 | 2 41 | 15 51 | 0 10 | 24 1 | 0 38 | 10 26 | 2 31 | 13 24 | 0 47 | 8 57 | 2 0 | 2 47 | 12 21 | 18 14 | 18 22 | 0 52 | | n.a. |
| S 8 | 16 3 | 16 42 | 4 45 | 10 32 | 1 2 | 26 23 | 2 41 | 16 6 | 0 11 | 24 0 | 0 38 | 10 24 | 2 31 | 13 24 | 0 47 | 8 57 | 2 0 | 2 46 | 12 21 | 18 14 | 18 21 | 0 55 | | n.a. |
| S 9 | 16 21 | 13 18 | 5 10 | 11 10 | 0 55 | 26 24 | 2 41 | 16 20 | 0 12 | 23 59 | 0 38 | 10 23 | 2 31 | 13 23 | 0 47 | 8 56 | 2 0 | 2 46 | 12 21 | 18 14 | 18 20 | 0 57 | | n.a. |
| M10 | 16 39 | 9 7 | 5 17 | 11 49 | 0 48 | 26 23 | 2 41 | 16 34 | 0 12 | 23 58 | 0 38 | 10 21 | 2 30 | 13 23 | 0 47 | 8 56 | 2 0 | 2 46 | 12 21 | 18 14 | 18 19 | 0 59 | | n.a. |
| T 11 | 16 57 | 4 21 | 5 5 | 12 27 | 0 41 | 26 22 | 2 41 | 16 48 | 0 13 | 23 58 | 0 38 | 10 20 | 2 30 | 13 23 | 0 47 | 8 55 | 2 0 | 2 46 | 12 21 | 18 14 | 18 18 | 1 1 | | n.a. |
| W12 | 17 14 | 0n44 | 4 34 | 13 4 | 0 34 | 26 20 | 2 40 | 17 1 | 0 13 | 23 57 | 0 38 | 10 18 | 2 30 | 13 23 | 0 47 | 8 55 | 2 0 | 2 45 | 12 21 | 18 14 | 18 18 | 1 4 | | n.a. |
| T 13 | 17 32 | 5 50 | 3 45 | 13 41 | 0 27 | 26 17 | 2 40 | 17 15 | 0 14 | 23 56 | 0 38 | 10 17 | 2 30 | 13 23 | 0 47 | 8 54 | 2 0 | 2 45 | 12 21 | 18 14 | 18 17 | 1 6 | | n.a. |
| F 14 | 17 49 | 10 38 | 2 41 | 14 18 | 0 20 | 26 14 | 2 39 | 17 28 | 0 15 | 23 55 | 0 38 | 10 15 | 2 30 | 13 23 | 0 47 | 8 54 | 2 0 | 2 45 | 12 20 | 18 14 | 18 16 | 1 8 | | n.a. |
| S 15 | 18 5 | 14 47 | 1 27 | 14 54 | 0 13 | 26 10 | 2 38 | 17 42 | 0 15 | 23 54 | 0 38 | 10 14 | 2 30 | 13 23 | 0 47 | 8 53 | 2 0 | 2 44 | 12 20 | 18 14 | 18 15 | 1 10 | | n.a. |
| S 16 | 18 21 | 17 59 | 0 7 | 15 30 | 0 6 | 26 5 | 2 37 | 17 55 | 0 16 | 23 53 | 0 38 | 10 12 | 2 30 | 13 23 | 0 47 | 8 53 | 2 0 | 2 44 | 12 20 | 18 14 | 18 14 | 1 13 | | n.a. |
| M17 | 18 37 | 20 1 | 1s11 | 16 5 | 0s 0 | 25 59 | 2 36 | 18 8 | 0 17 | 23 52 | 0 38 | 10 11 | 2 29 | 13 23 | 0 47 | 8 52 | 2 0 | 2 44 | 12 20 | 18 14 | 18 13 | 1 15 | | n.a. |
| T 18 | 18 53 | 20 46 | 2 24 | 16 39 | 0 7 | 25 53 | 2 35 | 18 21 | 0 17 | 23 51 | 0 38 | 10 10 | 2 29 | 13 22 | 0 46 | 8 51 | 2 0 | 2 44 | 12 20 | 18 14 | 18 13 | 1 17 | | n.a. |
| W19 | 19 8 | 20 16 | 3 26 | 17 13 | 0 14 | 25 46 | 2 33 | 18 33 | 0 18 | 23 50 | 0 38 | 10 8 | 2 29 | 13 22 | 0 46 | 8 51 | 2 0 | 2 43 | 12 20 | 18 13 | 18 12 | 1 19 | | n.a. |
| T 20 | 19 23 | 18 39 | 4 16 | 17 46 | 0 20 | 25 39 | 2 32 | 18 46 | 0 19 | 23 49 | 0 38 | 10 7 | 2 29 | 13 22 | 0 46 | 8 50 | 2 0 | 2 43 | 12 20 | 18 13 | 18 11 | 1 22 | | n.a. |
| F 21 | 19 38 | 16 9 | 4 51 | 18 18 | 0 27 | 25 31 | 2 30 | 18 58 | 0 19 | 23 48 | 0 38 | 10 6 | 2 29 | 13 22 | 0 46 | 8 50 | 2 0 | 2 43 | 12 20 | 18 13 | 18 10 | 1 24 | | n.a. |
| S 22 | 19 52 | 12 58 | 5 11 | 18 49 | 0 33 | 25 22 | 2 28 | 19 10 | 0 20 | 23 47 | 0 38 | 10 4 | 2 29 | 13 21 | 0 46 | 8 50 | 1 59 | 2 43 | 12 20 | 18 13 | 18 9 | 1 26 | | n.a. |
| S 23 | 20 6 | 9 19 | 5 17 | 19 20 | 0 40 | 25 12 | 2 26 | 19 22 | 0 21 | 23 46 | 0 38 | 10 3 | 2 28 | 13 21 | 0 46 | 8 49 | 1 59 | 2 43 | 12 20 | 18 13 | 18 8 | 1 28 | | n.a. |
| M24 | 20 19 | 5 20 | 5 9 | 19 49 | 0 46 | 25 2 | 2 24 | 19 34 | 0 21 | 23 45 | 0 39 | 10 2 | 2 28 | 13 21 | 0 46 | 8 49 | 1 59 | 2 42 | 12 19 | 18 13 | 18 7 | 1 31 | | n.a. |
| T 25 | 20 32 | 1 11 | 4 48 | 20 18 | 0 52 | 24 51 | 2 22 | 19 45 | 0 22 | 23 44 | 0 39 | 10 1 | 2 28 | 13 21 | 0 46 | 8 48 | 1 59 | 2 42 | 12 19 | 18 13 | 18 7 | 1 33 | | n.a. |
| W26 | 20 45 | 2s59 | 4 15 | 20 46 | 0 57 | 24 40 | 2 19 | 19 57 | 0 22 | 23 42 | 0 39 | 9 59 | 2 28 | 13 20 | 0 46 | 8 48 | 1 59 | 2 42 | 12 19 | 18 13 | 18 6 | 1 35 | | n.a. |
| T 27 | 20 57 | 7 5 | 3 30 | 21 13 | 1 3 | 24 28 | 2 17 | 20 8 | 0 23 | 23 41 | 0 39 | 9 58 | 2 28 | 13 20 | 0 46 | 8 47 | 1 59 | 2 42 | 12 19 | 18 14 | 18 5 | 1 37 | | n.a. |
| F 28 | 21 9 | 10 56 | 2 36 | 21 39 | 1 9 | 24 16 | 2 14 | 20 19 | 0 24 | 23 40 | 0 39 | 9 57 | 2 27 | 13 19 | 0 46 | 8 47 | 1 59 | 2 42 | 12 19 | 18 14 | 18 4 | 1 39 | | n.a. |
| S 29 | 21 20 | 14 24 | 1 34 | 22 4 | 1 14 | 24 2 | 2 11 | 20 30 | 0 24 | 23 39 | 0 39 | 9 56 | 2 27 | 13 19 | 0 46 | 8 46 | 1 59 | 2 41 | 12 19 | 18 14 | 18 3 | 1 42 | | n.a. |
| S 30 | 21s31 | 17s18 | 0s27 | 22s28 | 1s19 | 23s49 | 2s 8 | 20s40 | 0s25 | 23s37 | 0s39 | 9n55 | 2s27 | 13s19 | 0s46 | 8n46 | 1s59 | 2n41 | 12s18 | 18s14 | 18s 2 | 1s44 | | n.a. |

Julian Day Number = 1688124.5, Delta T = 03h11m55s
Ecliptic obliquity = 23°42'17, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°19'25, Lahiri = - 5°12'25 Julian Calendar 1 Nov. 92 BCE == Greg. Calendar 30 Oct. 092 BCE

The year -91 astronomical counting style corresponds to year 092 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 92 BCE
# geocentric

## DECEMBER 92 BCE (-91) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 4 27 35 | 6♐52'52 | 28♏48 | 5♐30 | 24♑ 5 | 0♐16 | 13♑59 | 1°R41 | 27♒11 | 27°R15 | 8°R 2 | 21°R 7 | 20♏20 | 24♍42 | n.a. | M 1 |
| T 2 | 4 31 32 | 7°54'09 | 11♐41 | 7° 6 | 25° 8 | 1° 2 | 14°12 | 1♉37 | 27°12 | 27♈14 | 8♉ 1 | 21♏ 6 | 20°16 | 24°49 | n.a. | T 2 |
| W 3 | 4 35 28 | 8°55'26 | 24°49 | 8°43 | 26°10 | 1°47 | 14°25 | 1°34 | 27°13 | 27°13 | 8° 0 | 21° 5 | 20°13 | 24°56 | n.a. | W 3 |
| T 4 | 4 39 25 | 9°56'43 | 8♑12 | 10°19 | 27°11 | 2°33 | 14°38 | 1°30 | 27°14 | 27°12 | 7°59 | 21° 2 | 20°10 | 25° 2 | n.a. | T 4 |
| F 5 | 4 43 21 | 10°58'00 | 21°48 | 11°56 | 28°13 | 3°19 | 14°51 | 1°27 | 27°16 | 27°11 | 7°58 | 20°59 | 20° 7 | 25° 9 | n.a. | F 5 |
| S 6 | 4 47 18 | 11°59'16 | 5♒35 | 13°34 | 29°14 | 4° 4 | 15° 4 | 1°24 | 27°17 | 27°10 | 7°57 | 20°56 | 20° 4 | 25°16 | n.a. | S 6 |
| S 7 | 4 51 14 | 13° 0'32 | 19°31 | 15°12 | 0♒14 | 4°50 | 15°18 | 1°21 | 27°19 | 27° 8 | 7°56 | 20°54 | 20° 0 | 25°22 | n.a. | S 7 |
| M 8 | 4 55 11 | 14° 1'47 | 3♓34 | 16°50 | 1°14 | 5°36 | 15°31 | 1°18 | 27°20 | 27° 7 | 7°56 | 20°52 | 19°57 | 25°29 | n.a. | M 8 |
| T 9 | 4 59 7 | 15° 3'02 | 17°41 | 18°28 | 2°13 | 6°21 | 15°44 | 1°15 | 27°22 | 27° 6 | 7°55 | 20°D52 | 19°54 | 25°36 | n.a. | T 9 |
| W10 | 5 3 4 | 16° 4'16 | 1♈52 | 20° 7 | 3°12 | 7° 7 | 15°58 | 1°12 | 27°23 | 27° 5 | 7°54 | 20°53 | 19°51 | 25°43 | n.a. | W10 |
| T 11 | 5 7 1 | 17° 5'29 | 16° 5 | 21°47 | 4°11 | 7°53 | 16°11 | 1°10 | 27°25 | 27° 4 | 7°53 | 20°54 | 19°48 | 25°49 | n.a. | T 11 |
| F 12 | 5 10 57 | 18° 6'42 | 0♉16 | 23°26 | 5° 9 | 8°39 | 16°24 | 1° 7 | 27°26 | 27° 3 | 7°52 | 20°56 | 19°45 | 25°56 | n.a. | F 12 |
| S 13 | 5 14 54 | 19° 7'54 | 14°24 | 25° 6 | 6° 6 | 9°25 | 16°38 | 1° 5 | 27°28 | 27° 3 | 7°51 | 20°R57 | 19°41 | 26° 3 | n.a. | S 13 |
| S 14 | 5 18 50 | 20° 9'05 | 28°26 | 26°47 | 7° 3 | 10°11 | 16°51 | 1° 2 | 27°30 | 27° 2 | 7°50 | 20°56 | 19°38 | 26° 9 | n.a. | S 14 |
| M15 | 5 22 47 | 21°10'16 | 12♊17 | 28°28 | 8° 0 | 10°57 | 17° 5 | 1° 0 | 27°31 | 27° 1 | 7°50 | 20°55 | 19°35 | 26°16 | n.a. | M15 |
| T 16 | 5 26 43 | 22°11'26 | 25°55 | 0♑ 9 | 8°55 | 11°43 | 17°19 | 0°58 | 27°33 | 27° 0 | 7°49 | 20°52 | 19°32 | 26°23 | n.a. | T 16 |
| W17 | 5 30 40 | 23°12'36 | 9♋18 | 1°50 | 9°51 | 12°29 | 17°32 | 0°56 | 27°35 | 26°59 | 7°48 | 20°47 | 19°29 | 26°29 | n.a. | W17 |
| T 18 | 5 34 37 | 24°13'45 | 22°22 | 3°31 | 10°45 | 13°15 | 17°46 | 0°54 | 27°37 | 26°58 | 7°47 | 20°41 | 19°26 | 26°36 | n.a. | T 18 |
| F 19 | 5 38 33 | 25°14'54 | 5♌ 8 | 5°13 | 11°39 | 14° 1 | 18° 0 | 0°52 | 27°39 | 26°58 | 7°47 | 20°35 | 19°22 | 26°43 | n.a. | F 19 |
| S 20 | 5 42 30 | 26°16'02 | 17°36 | 6°55 | 12°32 | 14°48 | 18°14 | 0°50 | 27°41 | 26°57 | 7°46 | 20°29 | 19°19 | 26°50 | n.a. | S 20 |
| S 21 | 5 46 26 | 27°17'10 | 29°49 | 8°36 | 13°24 | 15°34 | 18°28 | 0°49 | 27°43 | 26°56 | 7°45 | 20°24 | 19°16 | 26°56 | n.a. | S 21 |
| M22 | 5 50 23 | 28°18'17 | 11♍50 | 10°17 | 14°16 | 16°20 | 18°41 | 0°47 | 27°45 | 26°56 | 7°44 | 20°21 | 19°13 | 27° 3 | n.a. | M22 |
| T 23 | 5 54 19 | 29°19'23 | 23°44 | 11°58 | 15° 7 | 17° 6 | 18°55 | 0°46 | 27°47 | 26°55 | 7°44 | 20°19 | 19°10 | 27°10 | n.a. | T 23 |
| W24 | 5 58 16 | 0♑20'29 | 5♎34 | 13°39 | 15°57 | 17°53 | 19° 9 | 0°44 | 27°49 | 26°55 | 7°43 | 20°D19 | 19° 6 | 27°16 | n.a. | W24 |
| T 25 | 6 2 12 | 1°21'34 | 17°27 | 15°18 | 16°46 | 18°39 | 19°23 | 0°43 | 27°52 | 26°54 | 7°42 | 20°20 | 19° 3 | 27°23 | n.a. | T 25 |
| F 26 | 6 6 9 | 2°22'39 | 29°26 | 16°57 | 17°34 | 19°25 | 19°37 | 0°42 | 27°54 | 26°53 | 7°42 | 20°22 | 19° 0 | 27°30 | n.a. | F 26 |
| S 27 | 6 10 6 | 3°23'43 | 11♏38 | 18°34 | 18°22 | 20°12 | 19°51 | 0°41 | 27°56 | 26°53 | 7°41 | 20°24 | 18°57 | 27°36 | n.a. | S 27 |
| S 28 | 6 14 2 | 4°24'46 | 24° 7 | 20°10 | 19° 8 | 20°58 | 20° 6 | 0°40 | 27°58 | 26°53 | 7°41 | 20°R24 | 18°54 | 27°43 | n.a. | S 28 |
| M29 | 6 17 59 | 5°25'48 | 6♐55 | 21°43 | 19°54 | 21°45 | 20°20 | 0°39 | 28° 1 | 26°52 | 7°40 | 20°22 | 18°51 | 27°50 | n.a. | M29 |
| T 30 | 6 21 55 | 6°26'50 | 20° 4 | 23°14 | 20°38 | 22°31 | 20°34 | 0°39 | 28° 3 | 26°52 | 7°40 | 20°19 | 18°47 | 27°56 | n.a. | T 30 |
| W31 | 6 25 52 | 7♑27'50 | 3♑34 | 24♑42 | 21♒21 | 23♐18 | 20♑48 | 0♉38 | 28♒ 6 | 26♈51 | 7♉39 | 20♏13 | 18♏44 | 28♍ 3 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 21s42 | 19s26 | 0n42 | 22s50 | 1s24 | 23s34 | 2s 5 | 20s51 | 0s26 | 23s36 | 0s39 | 9n54 | 2s27 | 13s18 | 0s46 | 8n46 | 1s59 | 2n41 | 12s18 | 18s14 | 18s 1 | 1s46 | | n.a. |
| T 2 | 21 52 | 20 36 | 1 51 | 23 12 | 1 29 | 23 20 | 2 1 | 21 1 | 0 26 | 23 35 | 0 39 | 9 53 | 2 26 | 13 18 | 0 46 | 8 45 | 1 59 | 2 41 | 12 18 | 18 14 | 18 1 | 1 48 | | n.a. |
| W 3 | 22 2 | 20 41 | 2 56 | 23 32 | 1 33 | 23 4 | 1 58 | 21 11 | 0 27 | 23 33 | 0 39 | 9 52 | 2 26 | 13 17 | 0 46 | 8 45 | 1 59 | 2 41 | 12 18 | 18 14 | 18 0 | 1 51 | | n.a. |
| T 4 | 22 11 | 19 36 | 3 51 | 23 51 | 1 38 | 22 49 | 1 54 | 21 21 | 0 27 | 23 32 | 0 39 | 9 51 | 2 26 | 13 17 | 0 46 | 8 44 | 1 59 | 2 41 | 12 18 | 18 13 | 17 59 | 1 53 | | n.a. |
| F 5 | 22 20 | 17 23 | 4 35 | 24 9 | 1 42 | 22 32 | 1 50 | 21 30 | 0 28 | 23 31 | 0 39 | 9 50 | 2 26 | 13 16 | 0 46 | 8 44 | 1 59 | 2 41 | 12 18 | 18 12 | 17 58 | 1 55 | | n.a. |
| S 6 | 22 29 | 14 11 | 5 4 | 24 25 | 1 45 | 22 16 | 1 46 | 21 40 | 0 29 | 23 29 | 0 39 | 9 49 | 2 25 | 13 16 | 0 46 | 8 44 | 1 59 | 2 41 | 12 17 | 18 11 | 17 57 | 1 57 | | n.a. |
| S 7 | 22 37 | 10 9 | 5 15 | 24 40 | 1 49 | 21 58 | 1 41 | 21 49 | 0 29 | 23 28 | 0 39 | 9 48 | 2 25 | 13 15 | 0 46 | 8 43 | 1 59 | 2 40 | 12 17 | 18 11 | 17 56 | 1 59 | | n.a. |
| M 8 | 22 44 | 5 33 | 5 7 | 24 54 | 1 52 | 21 41 | 1 37 | 21 58 | 0 30 | 23 26 | 0 39 | 9 48 | 2 25 | 13 15 | 0 46 | 8 43 | 1 59 | 2 40 | 12 17 | 18 10 | 17 55 | 2 2 | | n.a. |
| T 9 | 22 51 | 0 37 | 4 41 | 25 6 | 1 55 | 21 23 | 1 32 | 22 7 | 0 31 | 23 25 | 0 39 | 9 47 | 2 25 | 13 14 | 0 46 | 8 43 | 1 59 | 2 40 | 12 17 | 18 10 | 17 55 | 2 4 | | n.a. |
| W10 | 22 58 | 4n23 | 3 58 | 25 17 | 1 57 | 21 4 | 1 27 | 22 15 | 0 31 | 23 23 | 0 39 | 9 46 | 2 24 | 13 14 | 0 46 | 8 42 | 1 59 | 2 40 | 12 17 | 18 10 | 17 54 | 2 6 | | n.a. |
| T 11 | 23 4 | 9 9 | 3 0 | 25 26 | 2 0 | 20 45 | 1 22 | 22 23 | 0 32 | 23 21 | 0 39 | 9 45 | 2 24 | 13 13 | 0 46 | 8 42 | 1 59 | 2 40 | 12 16 | 18 11 | 17 53 | 2 8 | | n.a. |
| F 12 | 23 10 | 13 25 | 1 51 | 25 34 | 2 1 | 20 26 | 1 17 | 22 31 | 0 32 | 23 20 | 0 39 | 9 45 | 2 24 | 13 12 | 0 46 | 8 42 | 1 59 | 2 40 | 12 16 | 18 11 | 17 52 | 2 10 | | n.a. |
| S 13 | 23 15 | 16 55 | 0 36 | 25 40 | 2 3 | 20 7 | 1 12 | 22 39 | 0 33 | 23 18 | 0 39 | 9 44 | 2 24 | 13 12 | 0 46 | 8 42 | 1 58 | 2 40 | 12 16 | 18 11 | 17 51 | 2 13 | | n.a. |
| S 14 | 23 20 | 19 22 | 0s41 | 25 44 | 2 4 | 19 47 | 1 6 | 22 47 | 0 34 | 23 17 | 0 39 | 9 44 | 2 23 | 13 11 | 0 46 | 8 41 | 1 58 | 2 40 | 12 16 | 18 11 | 17 50 | 2 15 | | n.a. |
| M15 | 23 24 | 20 38 | 1 54 | 25 46 | 2 5 | 19 26 | 1 0 | 22 54 | 0 34 | 23 15 | 0 39 | 9 43 | 2 23 | 13 11 | 0 45 | 8 41 | 1 58 | 2 40 | 12 16 | 18 11 | 17 49 | 2 17 | | n.a. |
| T 16 | 23 28 | 20 39 | 3 0 | 25 47 | 2 5 | 19 6 | 0 54 | 23 1 | 0 35 | 23 13 | 0 39 | 9 43 | 2 23 | 13 10 | 0 45 | 8 41 | 1 58 | 2 40 | 12 15 | 18 10 | 17 49 | 2 19 | | n.a. |
| W17 | 23 32 | 19 29 | 3 54 | 25 46 | 2 4 | 18 45 | 0 48 | 23 8 | 0 35 | 23 11 | 0 39 | 9 42 | 2 22 | 13 9 | 0 45 | 8 41 | 1 58 | 2 40 | 12 15 | 18 9 | 17 48 | 2 21 | | n.a. |
| T 18 | 23 35 | 17 19 | 4 34 | 25 43 | 2 4 | 18 24 | 0 42 | 23 14 | 0 36 | 23 10 | 0 39 | 9 42 | 2 22 | 13 9 | 0 45 | 8 40 | 1 58 | 2 40 | 12 15 | 18 7 | 17 47 | 2 24 | | n.a. |
| F 19 | 23 37 | 14 21 | 5 0 | 25 38 | 2 2 | 18 3 | 0 35 | 23 20 | 0 37 | 23 8 | 0 39 | 9 41 | 2 22 | 13 8 | 0 45 | 8 40 | 1 58 | 2 40 | 12 15 | 18 6 | 17 46 | 2 26 | | n.a. |
| S 20 | 23 39 | 10 48 | 5 11 | 25 31 | 2 0 | 17 41 | 0 28 | 23 26 | 0 37 | 23 6 | 0 40 | 9 41 | 2 22 | 13 7 | 0 45 | 8 40 | 1 58 | 2 40 | 12 15 | 18 4 | 17 45 | 2 28 | | n.a. |
| S 21 | 23 41 | 6 52 | 5 7 | 25 23 | 1 58 | 17 20 | 0 21 | 23 32 | 0 38 | 23 4 | 0 40 | 9 41 | 2 21 | 13 6 | 0 45 | 8 40 | 1 58 | 2 40 | 12 14 | 18 3 | 17 44 | 2 30 | | n.a. |
| M22 | 23 42 | 2 44 | 4 50 | 25 12 | 1 55 | 16 58 | 0 14 | 23 38 | 0 38 | 23 2 | 0 40 | 9 40 | 2 21 | 13 6 | 0 45 | 8 40 | 1 58 | 2 40 | 12 14 | 18 2 | 17 43 | 2 32 | | n.a. |
| T 23 | 23 42 | 1s27 | 4 20 | 25 0 | 1 51 | 16 36 | 0 7 | 23 43 | 0 39 | 23 0 | 0 40 | 9 40 | 2 21 | 13 5 | 0 45 | 8 39 | 1 58 | 2 40 | 12 14 | 18 1 | 17 42 | 2 35 | | n.a. |
| W24 | 23 42 | 5 35 | 3 40 | 24 46 | 1 46 | 16 13 | 0n 1 | 23 48 | 0 40 | 22 58 | 0 40 | 9 40 | 2 20 | 13 4 | 0 45 | 8 39 | 1 58 | 2 40 | 12 14 | 18 1 | 17 42 | 2 37 | | n.a. |
| T 25 | 23 42 | 9 31 | 2 49 | 24 29 | 1 41 | 15 51 | 0 8 | 23 53 | 0 40 | 22 56 | 0 40 | 9 40 | 2 20 | 13 3 | 0 45 | 8 39 | 1 58 | 2 40 | 12 13 | 18 2 | 17 41 | 2 39 | | n.a. |
| F 26 | 23 41 | 13 8 | 1 51 | 24 11 | 1 35 | 15 29 | 0 16 | 23 57 | 0 41 | 22 55 | 0 40 | 9 40 | 2 20 | 13 2 | 0 45 | 8 39 | 1 58 | 2 40 | 12 13 | 18 2 | 17 40 | 2 41 | | n.a. |
| S 27 | 23 40 | 16 15 | 0 47 | 23 52 | 1 29 | 15 6 | 0 25 | 24 1 | 0 41 | 22 52 | 0 40 | 9 40 | 2 20 | 13 2 | 0 45 | 8 39 | 1 58 | 2 40 | 12 13 | 18 3 | 17 39 | 2 43 | | n.a. |
| S 28 | 23 38 | 18 41 | 0n20 | 23 30 | 1 21 | 14 44 | 0 33 | 24 5 | 0 42 | 22 50 | 0 40 | 9 40 | 2 19 | 13 1 | 0 45 | 8 39 | 1 58 | 2 40 | 12 13 | 18 3 | 17 38 | 2 45 | | n.a. |
| M29 | 23 35 | 20 15 | 1 28 | 23 7 | 1 12 | 14 21 | 0 42 | 24 9 | 0 42 | 22 48 | 0 40 | 9 40 | 2 19 | 13 0 | 0 45 | 8 39 | 1 57 | 2 40 | 12 12 | 18 2 | 17 37 | 2 48 | | n.a. |
| T 30 | 23 33 | 20 47 | 2 33 | 22 43 | 1 3 | 13 58 | 0 51 | 24 12 | 0 43 | 22 46 | 0 40 | 9 40 | 2 19 | 12 59 | 0 45 | 8 39 | 1 57 | 2 40 | 12 12 | 18 1 | 17 36 | 2 50 | | n.a. |
| W31 | 23s29 | 20s 8 | 3n32 | 22s17 | 0s53 | 13s36 | 1n 0 | 24s15 | 0s44 | 22s44 | 0s40 | 9n40 | 2s18 | 12s58 | 0s45 | 8n39 | 1s57 | 2n40 | 12s12 | 18s 0 | 17s35 | 2s52 | | n.a. |

Julian Day Number = 1688154.5, Delta T = 03h11m54s
Ecliptic obliquity = 23°42'16, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°19'21, Lahiri = - 5°12'20 Julian Calendar 1 Dec. 92 BCE == Greg. Calendar 29 Nov. 092 BCE

The year -91 astronomical counting style corresponds to year 092 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 91 BCE
# geocentric

## JANUARY 91 BCE (-90) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 29 48 | 8♑28'50 | 17♑24 | 26♑ 6 | 22♒ 4 | 24♐ 4 | 21♑ 2 | 0°R38 | 28♒ 8 | 26°R51 | 7°R39 | 20°R 5 | 18♏41 | 28♍10 | n.a. | T 1 |
| F 2 | 6 33 45 | 9°29'48 | 1♒29 | 27°25 | 22°45 | 24°51 | 21°16 | 0♉38 | 28°11 | 26♈51 | 7♉38 | 19♏57 | 18°38 | 28°17 | n.a. | F 2 |
| S 3 | 6 37 41 | 10°30'45 | 15°45 | 28°40 | 23°25 | 25°37 | 21°31 | 0°37 | 28°13 | 26°51 | 7°38 | 19°48 | 18°35 | 28°23 | n.a. | S 3 |
| S 4 | 6 41 38 | 11°31'40 | 0♓ 6 | 29°49 | 24° 4 | 26°24 | 21°45 | 0°D37 | 28°16 | 26°50 | 7°37 | 19°41 | 18°32 | 28°30 | n.a. | S 4 |
| M 5 | 6 45 35 | 12°32'34 | 14°26 | 0♒51 | 24°41 | 27°10 | 21°59 | 0°37 | 28°18 | 26°50 | 7°37 | 19°36 | 18°28 | 28°37 | n.a. | M 5 |
| T 6 | 6 49 31 | 13°33'26 | 28°43 | 1°46 | 25°17 | 27°57 | 22°13 | 0°38 | 28°21 | 26°50 | 7°36 | 19°32 | 18°25 | 28°43 | n.a. | T 6 |
| W 7 | 6 53 28 | 14°34'17 | 12♈53 | 2°33 | 25°52 | 28°44 | 22°28 | 0°38 | 28°24 | 26°50 | 7°36 | 19°D31 | 18°22 | 28°50 | n.a. | W 7 |
| T 8 | 6 57 24 | 15°35'06 | 26°54 | 3°10 | 26°25 | 29°30 | 22°42 | 0°38 | 28°26 | 26°50 | 7°36 | 19°32 | 18°19 | 28°57 | n.a. | T 8 |
| F 9 | 7 1 21 | 16°35'53 | 10♉46 | 3°39 | 26°57 | 0♑17 | 22°56 | 0°39 | 28°29 | 26°D50 | 7°35 | 19°33 | 18°16 | 29° 3 | n.a. | F 9 |
| S 10 | 7 5 17 | 17°36'38 | 24°30 | 3°57 | 27°27 | 1° 4 | 23°11 | 0°39 | 28°32 | 26°50 | 7°35 | 19°R33 | 18°12 | 29°10 | n.a. | S 10 |
| S 11 | 7 9 14 | 18°37'22 | 8♊ 4 | 4°R 4 | 27°55 | 1°51 | 23°25 | 0°40 | 28°35 | 26°50 | 7°35 | 19°31 | 18° 9 | 29°17 | n.a. | S 11 |
| M12 | 7 13 10 | 19°38'05 | 21°28 | 4° 1 | 28°22 | 2°37 | 23°39 | 0°41 | 28°37 | 26°50 | 7°35 | 19°27 | 18° 6 | 29°23 | n.a. | M12 |
| T 13 | 7 17 7 | 20°38'45 | 4♋42 | 3°47 | 28°47 | 3°24 | 23°54 | 0°42 | 28°40 | 26°50 | 7°34 | 19°20 | 18° 3 | 29°30 | n.a. | T 13 |
| W14 | 7 21 4 | 21°39'24 | 17°45 | 3°23 | 29°10 | 4°11 | 24° 8 | 0°43 | 28°43 | 26°50 | 7°34 | 19°11 | 18° 0 | 29°37 | n.a. | W14 |
| T 15 | 7 25 0 | 22°40'02 | 0♌34 | 2°48 | 29°31 | 4°58 | 24°23 | 0°44 | 28°46 | 26°50 | 7°34 | 18°59 | 17°57 | 29°44 | n.a. | T 15 |
| F 16 | 7 28 57 | 23°40'38 | 13°10 | 2° 5 | 29°51 | 5°45 | 24°37 | 0°46 | 28°49 | 26°51 | 7°34 | 18°47 | 17°53 | 29°50 | n.a. | F 16 |
| S 17 | 7 32 53 | 24°41'12 | 25°33 | 1°14 | 0♓ 8 | 6°31 | 24°51 | 0°47 | 28°52 | 26°51 | 7°34 | 18°35 | 17°50 | 29°57 | n.a. | S 17 |
| S 18 | 7 36 50 | 25°41'45 | 7♍43 | 0°16 | 0°23 | 7°18 | 25° 6 | 0°49 | 28°55 | 26°51 | 7°33 | 18°24 | 17°47 | 0♎ 4 | n.a. | S 18 |
| M19 | 7 40 46 | 26°42'16 | 19°43 | 29♑13 | 0°36 | 8° 5 | 25°20 | 0°50 | 28°58 | 26°51 | 7°33 | 18°16 | 17°44 | 0°10 | n.a. | M19 |
| T 20 | 7 44 43 | 27°42'46 | 1♎35 | 28° 7 | 0°47 | 8°52 | 25°34 | 0°52 | 29° 1 | 26°52 | 7°33 | 18°10 | 17°41 | 0°17 | n.a. | T 20 |
| W21 | 7 48 39 | 28°43'14 | 13°24 | 26°59 | 0°55 | 9°39 | 25°49 | 0°54 | 29° 4 | 26°52 | 7°33 | 18° 7 | 17°38 | 0°24 | n.a. | W21 |
| T 22 | 7 52 36 | 29°43'41 | 25°15 | 25°52 | 1° 1 | 10°26 | 26° 3 | 0°56 | 29° 7 | 26°53 | 7°33 | 18°D 5 | 17°34 | 0°30 | n.a. | T 22 |
| F 23 | 7 56 33 | 0♒44'06 | 7♏13 | 24°47 | 1° 5 | 11°13 | 26°18 | 0°58 | 29°10 | 26°53 | 7°33 | 18° 6 | 17°31 | 0°37 | n.a. | F 23 |
| S 24 | 8 0 29 | 1°44'30 | 19°23 | 23°45 | 1°R 7 | 12° 0 | 26°32 | 1° 0 | 29°13 | 26°53 | 7°D33 | 18°R 6 | 17°28 | 0°44 | n.a. | S 24 |
| S 25 | 8 4 26 | 2°44'52 | 1♐51 | 22°47 | 1° 6 | 12°47 | 26°46 | 1° 2 | 29°16 | 26°54 | 7°33 | 18° 5 | 17°25 | 0°50 | n.a. | S 25 |
| M26 | 8 8 22 | 3°45'13 | 14°42 | 21°56 | 1° 2 | 13°34 | 27° 1 | 1° 5 | 29°20 | 26°55 | 7°33 | 18° 2 | 17°22 | 0°57 | n.a. | M26 |
| T 27 | 8 12 19 | 4°45'32 | 27°58 | 21°10 | 0°56 | 14°21 | 27°15 | 1° 7 | 29°23 | 26°55 | 7°33 | 17°57 | 17°18 | 1° 4 | n.a. | T 27 |
| W28 | 8 16 15 | 5°45'50 | 11♑40 | 20°31 | 0°48 | 15° 8 | 27°29 | 1°10 | 29°26 | 26°56 | 7°33 | 17°49 | 17°15 | 1°10 | n.a. | W28 |
| T 29 | 8 20 12 | 6°46'06 | 25°48 | 20° 0 | 0°37 | 15°55 | 27°44 | 1°13 | 29°29 | 26°56 | 7°33 | 17°38 | 17°12 | 1°17 | n.a. | T 29 |
| F 30 | 8 24 8 | 7°46'20 | 10♒17 | 19°35 | 0°23 | 16°42 | 27°58 | 1°15 | 29°32 | 26°57 | 7°33 | 17°27 | 17° 9 | 1°24 | n.a. | F 30 |
| S 31 | 8 28 5 | 8♒46'32 | 25♒ 0 | 19♑18 | 0♓ 7 | 17♑29 | 28♑12 | 1♉18 | 29♒36 | 26♈58 | 7♉34 | 17♏15 | 17♏ 6 | 1♎31 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 23s26 | 18s17 | 4n19 | 21s51 | 0s42 | 13s13 | 1n 9 | 24s18 | 0s44 | 22s42 | 0s40 | 9n40 | 2s18 | 12s57 | 0s45 | 8n38 | 1s57 | 2n40 | 12s12 | 17s58 | 17s34 | 2s54 | | | n.a. |
| F 2 | 23 22 | 15 19 | 4 51 | 21 24 | 0 30 | 12 51 | 1 18 | 24 21 | 0 45 | 22 40 | 0 40 | 9 40 | 2 18 | 12 56 | 0 45 | 8 38 | 1 57 | 2 40 | 12 11 | 17 55 | 17 34 | 2 56 | | | n.a. |
| S 3 | 23 17 | 11 25 | 5 6 | 20 56 | 0 17 | 12 29 | 1 28 | 24 23 | 0 45 | 22 38 | 0 40 | 9 40 | 2 17 | 12 55 | 0 45 | 8 38 | 1 57 | 2 41 | 12 11 | 17 53 | 17 33 | 2 58 | | | n.a. |
| S 4 | 23 12 | 6 52 | 5 2 | 20 28 | 0 3 | 12 6 | 1 38 | 24 25 | 0 46 | 22 35 | 0 40 | 9 41 | 2 17 | 12 55 | 0 45 | 8 38 | 1 57 | 2 41 | 12 11 | 17 51 | 17 32 | 3 1 | | | n.a. |
| M 5 | 23 6 | 1 55 | 4 39 | 20 0 | 0n12 | 11 44 | 1 48 | 24 27 | 0 46 | 22 33 | 0 41 | 9 41 | 2 17 | 12 54 | 0 45 | 8 38 | 1 57 | 2 41 | 12 10 | 17 50 | 17 31 | 3 3 | | | n.a. |
| T 6 | 23 0 | 3n 7 | 3 58 | 19 33 | 0 27 | 11 23 | 1 58 | 24 28 | 0 47 | 22 31 | 0 41 | 9 41 | 2 17 | 12 53 | 0 45 | 8 38 | 1 57 | 2 41 | 12 10 | 17 49 | 17 30 | 3 5 | | | n.a. |
| W 7 | 22 54 | 7 57 | 3 4 | 19 6 | 0 43 | 11 1 | 2 9 | 24 29 | 0 47 | 22 29 | 0 41 | 9 42 | 2 16 | 12 52 | 0 45 | 8 38 | 1 57 | 2 41 | 12 10 | 17 48 | 17 29 | 3 7 | | | n.a. |
| T 8 | 22 47 | 12 19 | 1 58 | 18 41 | 1 0 | 10 40 | 2 20 | 24 30 | 0 48 | 22 26 | 0 41 | 9 42 | 2 16 | 12 51 | 0 45 | 8 38 | 1 57 | 2 41 | 12 10 | 17 48 | 17 28 | 3 9 | | | n.a. |
| F 9 | 22 40 | 15 58 | 0 47 | 18 18 | 1 17 | 10 18 | 2 31 | 24 31 | 0 48 | 22 24 | 0 41 | 9 43 | 2 16 | 12 50 | 0 45 | 8 39 | 1 57 | 2 41 | 12 9 | 17 49 | 17 27 | 3 11 | | | n.a. |
| S 10 | 22 32 | 18 40 | 0s26 | 17 57 | 1 35 | 9 58 | 2 42 | 24 31 | 0 49 | 22 22 | 0 41 | 9 43 | 2 15 | 12 49 | 0 45 | 8 39 | 1 57 | 2 42 | 12 9 | 17 49 | 17 26 | 3 14 | | | n.a. |
| S 11 | 22 24 | 20 18 | 1 37 | 17 38 | 1 52 | 9 37 | 2 53 | 24 31 | 0 49 | 22 19 | 0 41 | 9 44 | 2 15 | 12 48 | 0 45 | 8 39 | 1 57 | 2 42 | 12 9 | 17 48 | 17 26 | 3 16 | | | n.a. |
| M12 | 22 15 | 20 44 | 2 42 | 17 22 | 2 9 | 9 17 | 3 5 | 24 31 | 0 50 | 22 17 | 0 41 | 9 44 | 2 15 | 12 47 | 0 45 | 8 39 | 1 57 | 2 42 | 12 8 | 17 47 | 17 25 | 3 18 | | | n.a. |
| T 13 | 22 6 | 20 1 | 3 37 | 17 9 | 2 26 | 8 58 | 3 16 | 24 30 | 0 51 | 22 14 | 0 41 | 9 45 | 2 14 | 12 46 | 0 45 | 8 39 | 1 56 | 2 42 | 12 8 | 17 45 | 17 24 | 3 20 | | | n.a. |
| W14 | 21 56 | 18 14 | 4 19 | 17 0 | 2 42 | 8 38 | 3 28 | 24 29 | 0 51 | 22 12 | 0 41 | 9 46 | 2 14 | 12 45 | 0 45 | 8 39 | 1 56 | 2 42 | 12 8 | 17 43 | 17 23 | 3 22 | | | n.a. |
| T 15 | 21 47 | 15 34 | 4 47 | 16 53 | 2 57 | 8 20 | 3 40 | 24 28 | 0 52 | 22 9 | 0 41 | 9 46 | 2 14 | 12 44 | 0 45 | 8 39 | 1 56 | 2 43 | 12 8 | 17 40 | 17 22 | 3 24 | | | n.a. |
| F 16 | 21 36 | 12 14 | 5 1 | 16 50 | 3 10 | 8 1 | 3 53 | 24 27 | 0 52 | 22 7 | 0 41 | 9 47 | 2 13 | 12 43 | 0 45 | 8 39 | 1 56 | 2 43 | 12 7 | 17 36 | 17 21 | 3 27 | | | n.a. |
| S 17 | 21 25 | 8 26 | 5 0 | 16 49 | 3 22 | 7 44 | 4 5 | 24 25 | 0 53 | 22 4 | 0 41 | 9 48 | 2 13 | 12 42 | 0 45 | 8 39 | 1 56 | 2 43 | 12 7 | 17 33 | 17 20 | 3 29 | | | n.a. |
| S 18 | 21 14 | 4 21 | 4 46 | 16 52 | 3 32 | 7 27 | 4 17 | 24 23 | 0 53 | 22 2 | 0 42 | 9 49 | 2 13 | 12 40 | 0 45 | 8 40 | 1 56 | 2 43 | 12 7 | 17 30 | 17 19 | 3 31 | | | n.a. |
| M19 | 21 3 | 0 9 | 4 19 | 16 58 | 3 40 | 7 11 | 4 30 | 24 21 | 0 54 | 21 59 | 0 42 | 9 49 | 2 13 | 12 39 | 0 44 | 8 40 | 1 56 | 2 43 | 12 6 | 17 27 | 17 18 | 3 33 | | | n.a. |
| T 20 | 20 51 | 4s 0 | 3 41 | 17 6 | 3 45 | 6 55 | 4 43 | 24 18 | 0 54 | 21 57 | 0 42 | 9 50 | 2 12 | 12 38 | 0 44 | 8 40 | 1 56 | 2 44 | 12 6 | 17 26 | 17 18 | 3 35 | | | n.a. |
| W21 | 20 39 | 8 0 | 2 53 | 17 15 | 3 48 | 6 40 | 4 55 | 24 15 | 0 55 | 21 54 | 0 42 | 9 51 | 2 12 | 12 37 | 0 44 | 8 40 | 1 56 | 2 44 | 12 6 | 17 25 | 17 17 | 3 37 | | | n.a. |
| T 22 | 20 26 | 11 42 | 1 58 | 17 27 | 3 49 | 6 26 | 5 8 | 24 12 | 0 55 | 21 51 | 0 42 | 9 52 | 2 12 | 12 36 | 0 44 | 8 40 | 1 56 | 2 44 | 12 6 | 17 25 | 17 16 | 3 39 | | | n.a. |
| F 23 | 20 13 | 14 59 | 0 58 | 17 40 | 3 48 | 6 13 | 5 21 | 24 9 | 0 55 | 21 49 | 0 42 | 9 53 | 2 11 | 12 35 | 0 44 | 8 41 | 1 56 | 2 44 | 12 5 | 17 25 | 17 15 | 3 42 | | | n.a. |
| S 24 | 20 0 | 17 40 | 0n 7 | 17 54 | 3 45 | 6 0 | 5 34 | 24 5 | 0 56 | 21 46 | 0 42 | 9 54 | 2 11 | 12 34 | 0 44 | 8 41 | 1 56 | 2 45 | 12 5 | 17 25 | 17 14 | 3 44 | | | n.a. |
| S 25 | 19 46 | 19 35 | 1 12 | 18 9 | 3 40 | 5 49 | 5 47 | 24 1 | 0 56 | 21 43 | 0 42 | 9 55 | 2 11 | 12 33 | 0 44 | 8 41 | 1 56 | 2 45 | 12 5 | 17 24 | 17 13 | 3 46 | | | n.a. |
| M26 | 19 32 | 20 34 | 2 16 | 18 24 | 3 33 | 5 38 | 5 59 | 23 57 | 0 57 | 21 41 | 0 42 | 9 57 | 2 10 | 12 32 | 0 44 | 8 41 | 1 56 | 2 45 | 12 4 | 17 24 | 17 12 | 3 48 | | | n.a. |
| T 27 | 19 17 | 20 27 | 3 14 | 18 39 | 3 24 | 5 28 | 6 12 | 23 52 | 0 57 | 21 38 | 0 42 | 9 58 | 2 10 | 12 30 | 0 44 | 8 42 | 1 55 | 2 46 | 12 4 | 17 22 | 17 11 | 3 50 | | | n.a. |
| W28 | 19 2 | 19 8 | 4 4 | 18 55 | 3 14 | 5 20 | 6 24 | 23 48 | 0 58 | 21 35 | 0 43 | 9 59 | 2 10 | 12 29 | 0 44 | 8 42 | 1 55 | 2 46 | 12 4 | 17 20 | 17 10 | 3 52 | | | n.a. |
| T 29 | 18 47 | 16 39 | 4 39 | 19 10 | 3 4 | 5 12 | 6 36 | 23 42 | 0 58 | 21 33 | 0 43 | 10 0 | 2 10 | 12 28 | 0 44 | 8 42 | 1 55 | 2 46 | 12 4 | 17 17 | 17 9 | 3 54 | | | n.a. |
| F 30 | 18 32 | 13 4 | 4 58 | 19 25 | 2 52 | 5 6 | 6 48 | 23 37 | 0 59 | 21 30 | 0 43 | 10 1 | 2 9 | 12 27 | 0 44 | 8 43 | 1 55 | 2 47 | 12 3 | 17 14 | 17 8 | 3 56 | | | n.a. |
| S 31 | 18s16 | 8s39 | 4n58 | 19s39 | 2n40 | 5s 1 | 7n 0 | 23s31 | 0s59 | 21s27 | 0s43 | 10n 3 | 2s 9 | 12s26 | 0s44 | 8n43 | 1s55 | 2n47 | 12s 3 | 17s10 | 17s 8 | 3s59 | | | n.a. |

Julian Day Number = 1688185.5, Delta T = 03h11m53s
Ecliptic obliquity = 23°42'15, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°19'17, Lahiri = - 5°12'16 Julian Calendar 1 Jan. 91 BCE == Greg. Calendar 30 Dec. 092 BCE

The year -90 astronomical counting style corresponds to year 091 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 91 BCE
# geocentric

## FEBRUARY 91 BCE (-90) JC — 00:00 UT

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

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 18s 0 | 3s42 | 4n38 | 19s53 | 2n28 | 4s56 | 7n11 | 23s26 | 0s59 | 21s24 | 0s43 | 10n 4 | 2s 9 | 12s25 | 0s44 | 8n43 | 1s55 | 2n47 | 12s 3 | 17s 7 | 17s 7 | 4s 1 | | n.a. |
| M 2 | 17 43 | 1n28 | 3 59 | 20 6 | 2 15 | 4 54 | 7 22 | 23 19 | 1 0 | 21 21 | 0 43 | 10 5 | 2 8 | 12 23 | 0 44 | 8 44 | 1 55 | 2 48 | 12 2 | 17 5 | 17 6 | 4 3 | | n.a. |
| T 3 | 17 27 | 6 30 | 3 5 | 20 19 | 2 2 | 4 52 | 7 32 | 23 13 | 1 0 | 21 18 | 0 43 | 10 7 | 2 8 | 12 22 | 0 44 | 8 44 | 1 55 | 2 48 | 12 2 | 17 3 | 17 5 | 4 5 | | n.a. |
| W 4 | 17 10 | 11 6 | 1 59 | 20 31 | 1 49 | 4 51 | 7 42 | 23 6 | 1 1 | 21 16 | 0 43 | 10 8 | 2 8 | 12 21 | 0 44 | 8 44 | 1 55 | 2 48 | 12 2 | 17 2 | 17 4 | 4 7 | | n.a. |
| T 5 | 16 52 | 14 58 | 0 48 | 20 41 | 1 36 | 4 52 | 7 51 | 22 59 | 1 1 | 21 13 | 0 43 | 10 10 | 2 8 | 12 20 | 0 44 | 8 45 | 1 55 | 2 49 | 12 2 | 17 2 | 17 3 | 4 9 | | n.a. |
| F 6 | 16 35 | 17 56 | 0s25 | 20 51 | 1 23 | 4 54 | 7 59 | 22 52 | 1 2 | 21 10 | 0 44 | 10 11 | 2 7 | 12 19 | 0 44 | 8 45 | 1 55 | 2 49 | 12 1 | 17 2 | 17 2 | 4 11 | | n.a. |
| S 7 | 16 17 | 19 49 | 1 35 | 21 0 | 1 10 | 4 57 | 8 7 | 22 45 | 1 2 | 21 7 | 0 44 | 10 13 | 2 7 | 12 17 | 0 44 | 8 45 | 1 55 | 2 49 | 12 1 | 17 2 | 17 1 | 4 13 | | n.a. |
| S 8 | 15 59 | 20 33 | 2 38 | 21 8 | 0 57 | 5 2 | 8 14 | 22 37 | 1 2 | 21 4 | 0 44 | 10 14 | 2 7 | 12 16 | 0 44 | 8 46 | 1 55 | 2 50 | 12 1 | 17 1 | 17 0 | 4 15 | | n.a. |
| M 9 | 15 40 | 20 10 | 3 32 | 21 15 | 0 45 | 5 7 | 8 20 | 22 29 | 1 3 | 21 1 | 0 44 | 10 16 | 2 6 | 12 15 | 0 44 | 8 46 | 1 55 | 2 50 | 12 0 | 17 0 | 16 59 | 4 18 | | n.a. |
| T 10 | 15 22 | 18 43 | 4 14 | 21 20 | 0 33 | 5 14 | 8 26 | 22 21 | 1 3 | 20 58 | 0 44 | 10 17 | 2 6 | 12 14 | 0 44 | 8 47 | 1 55 | 2 50 | 12 0 | 16 57 | 16 58 | 4 20 | | n.a. |
| W11 | 15 3 | 16 23 | 4 43 | 21 25 | 0 21 | 5 22 | 8 30 | 22 12 | 1 3 | 20 55 | 0 44 | 10 19 | 2 6 | 12 13 | 0 44 | 8 47 | 1 54 | 2 51 | 12 0 | 16 54 | 16 58 | 4 22 | | n.a. |
| T 12 | 14 44 | 13 18 | 4 58 | 21 28 | 0 10 | 5 31 | 8 34 | 22 3 | 1 4 | 20 52 | 0 44 | 10 21 | 2 6 | 12 11 | 0 44 | 8 48 | 1 54 | 2 51 | 12 0 | 16 50 | 16 57 | 4 24 | | n.a. |
| F 13 | 14 24 | 9 42 | 4 58 | 21 30 | 0s 1 | 5 40 | 8 36 | 21 54 | 1 4 | 20 49 | 0 44 | 10 22 | 2 5 | 12 10 | 0 44 | 8 48 | 1 54 | 2 52 | 11 59 | 16 46 | 16 56 | 4 26 | | n.a. |
| S 14 | 14 5 | 5 44 | 4 45 | 21 31 | 0 12 | 5 51 | 8 38 | 21 45 | 1 5 | 20 46 | 0 44 | 10 24 | 2 5 | 12 9 | 0 44 | 8 49 | 1 54 | 2 52 | 11 59 | 16 42 | 16 55 | 4 28 | | n.a. |
| S 15 | 13 45 | 1 36 | 4 19 | 21 31 | 0 22 | 6 2 | 8 38 | 21 36 | 1 5 | 20 43 | 0 45 | 10 26 | 2 5 | 12 8 | 0 44 | 8 49 | 1 54 | 2 52 | 11 59 | 16 39 | 16 54 | 4 30 | | n.a. |
| M16 | 13 25 | 2s34 | 3 42 | 21 29 | 0 32 | 6 15 | 8 38 | 21 26 | 1 5 | 20 40 | 0 45 | 10 28 | 2 5 | 12 7 | 0 44 | 8 50 | 1 54 | 2 53 | 11 58 | 16 35 | 16 53 | 4 32 | | n.a. |
| T 17 | 13 5 | 6 36 | 2 55 | 21 26 | 0 41 | 6 27 | 8 37 | 21 16 | 1 6 | 20 37 | 0 45 | 10 30 | 2 4 | 12 5 | 0 44 | 8 50 | 1 54 | 2 53 | 11 58 | 16 33 | 16 52 | 4 34 | | n.a. |
| W18 | 12 44 | 10 22 | 2 1 | 21 21 | 0 50 | 6 41 | 8 35 | 21 6 | 1 6 | 20 34 | 0 45 | 10 31 | 2 4 | 12 4 | 0 44 | 8 51 | 1 54 | 2 54 | 11 58 | 16 32 | 16 51 | 4 36 | | n.a. |
| T 19 | 12 24 | 13 45 | 1 1 | 21 16 | 0 59 | 6 55 | 8 32 | 20 56 | 1 6 | 20 31 | 0 45 | 10 33 | 2 4 | 12 3 | 0 44 | 8 51 | 1 54 | 2 54 | 11 58 | 16 31 | 16 50 | 4 39 | | n.a. |
| F 20 | 12 3 | 16 36 | 0n 2 | 21 8 | 1 7 | 7 9 | 8 28 | 20 45 | 1 7 | 20 28 | 0 45 | 10 35 | 2 4 | 12 2 | 0 44 | 8 52 | 1 54 | 2 55 | 11 57 | 16 31 | 16 49 | 4 41 | | n.a. |
| S 21 | 11 42 | 18 45 | 1 6 | 21 0 | 1 15 | 7 23 | 8 23 | 20 34 | 1 7 | 20 25 | 0 45 | 10 37 | 2 3 | 12 0 | 0 44 | 8 52 | 1 54 | 2 55 | 11 57 | 16 31 | 16 48 | 4 43 | | n.a. |
| S 22 | 11 21 | 20 4 | 2 8 | 20 50 | 1 22 | 7 38 | 8 17 | 20 23 | 1 7 | 20 22 | 0 46 | 10 39 | 2 3 | 11 59 | 0 44 | 8 53 | 1 54 | 2 55 | 11 57 | 16 31 | 16 47 | 4 45 | | n.a. |
| M23 | 11 0 | 20 24 | 3 6 | 20 38 | 1 29 | 7 53 | 8 11 | 20 12 | 1 7 | 20 19 | 0 46 | 10 41 | 2 3 | 11 58 | 0 44 | 8 53 | 1 54 | 2 56 | 11 56 | 16 30 | 16 46 | 4 47 | | n.a. |
| T 24 | 10 38 | 19 38 | 3 56 | 20 25 | 1 36 | 8 8 | 8 3 | 20 0 | 1 8 | 20 16 | 0 46 | 10 43 | 2 3 | 11 57 | 0 44 | 8 54 | 1 54 | 2 56 | 11 56 | 16 29 | 16 45 | 4 49 | | n.a. |
| W25 | 10 16 | 17 43 | 4 34 | 20 11 | 1 42 | 8 23 | 7 56 | 19 49 | 1 8 | 20 13 | 0 46 | 10 45 | 2 2 | 11 55 | 0 44 | 8 54 | 1 54 | 2 57 | 11 56 | 16 27 | 16 45 | 4 51 | | n.a. |
| T 26 | 9 55 | 14 41 | 4 57 | 19 55 | 1 47 | 8 37 | 7 47 | 19 37 | 1 8 | 20 10 | 0 46 | 10 47 | 2 2 | 11 54 | 0 44 | 8 55 | 1 54 | 2 57 | 11 56 | 16 25 | 16 44 | 4 53 | | n.a. |
| F 27 | 9 33 | 10 40 | 5 2 | 19 37 | 1 53 | 8 52 | 7 38 | 19 25 | 1 9 | 20 7 | 0 46 | 10 49 | 2 2 | 11 53 | 0 44 | 8 56 | 1 54 | 2 58 | 11 55 | 16 22 | 16 43 | 4 55 | | n.a. |
| S 28 | 9s11 | 5s55 | 4n46 | 19s18 | 1s57 | 9s 6 | 7n29 | 19s12 | 1s 9 | 20s 4 | 0s46 | 10n51 | 2s 2 | 11s52 | 0s44 | 8n56 | 1s53 | 2n58 | 11s55 | 16s19 | 16s42 | 4s57 | | n.a. |

Julian Day Number = 1688216.5, Delta T = 03h11m52s
Ecliptic obliquity = 23°42'16, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°19'12, Lahiri = - 5°12'12 Julian Calendar 1 Feb. 91 BCE == Greg. Calendar 30 Jan. 091 BCE


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# ASTRODIENST EPHEMERIS for the year 91 BCE
# geocentric

## MARCH 91 BCE (-90) JC 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 22 25 | 7♓36'46 | 18♓35 | 13♒16 | 15°R36 | 10♒10 | 4♒53 | 3♉24 | 1♓14 | 27♈32 | 7♉47 | 14°R 9 | 15♏34 | 4♎44 | n.a. | S 1 |
| M 2 | 10 26 22 | 8°35'55 | 3♈42 | 14°43 | 15♒23 | 10°57 | 5° 6 | 3°30 | 1°17 | 27°34 | 7°48 | 14♏ 1 | 15°30 | 4°51 | n.a. | M 2 |
| T 3 | 10 30 18 | 9°35'02 | 18°40 | 16°12 | 15°12 | 11°44 | 5°19 | 3°36 | 1°21 | 27°35 | 7°49 | 13°57 | 15°27 | 4°58 | n.a. | T 3 |
| W 4 | 10 34 15 | 10°34'07 | 3♉21 | 17°42 | 15° 3 | 12°30 | 5°32 | 3°41 | 1°24 | 27°37 | 7°49 | 13°54 | 15°24 | 5° 4 | n.a. | W 4 |
| T 5 | 10 38 11 | 11°33'10 | 17°40 | 19°14 | 14°57 | 13°17 | 5°45 | 3°47 | 1°27 | 27°39 | 7°50 | 13°D54 | 15°21 | 5°11 | n.a. | T 5 |
| F 6 | 10 42 8 | 12°32'10 | 1♊36 | 20°47 | 14°53 | 14° 4 | 5°58 | 3°53 | 1°31 | 27°40 | 7°51 | 13°54 | 15°18 | 5°18 | n.a. | F 6 |
| S 7 | 10 46 4 | 13°31'07 | 15° 9 | 22°22 | 14°D52 | 14°51 | 6°11 | 3°59 | 1°34 | 27°42 | 7°52 | 13°R55 | 15°15 | 5°24 | n.a. | S 7 |
| S 8 | 10 50 1 | 14°30'03 | 28°22 | 23°58 | 14°53 | 15°37 | 6°24 | 4° 5 | 1°38 | 27°44 | 7°53 | 13°54 | 15°11 | 5°31 | n.a. | S 8 |
| M 9 | 10 53 57 | 15°28'55 | 11♋16 | 25°36 | 14°56 | 16°24 | 6°37 | 4°11 | 1°41 | 27°45 | 7°54 | 13°51 | 15° 8 | 5°38 | n.a. | M 9 |
| T 10 | 10 57 54 | 16°27'46 | 23°56 | 27°16 | 15° 2 | 17°11 | 6°49 | 4°17 | 1°44 | 27°47 | 7°55 | 13°45 | 15° 5 | 5°44 | n.a. | T 10 |
| W11 | 11 1 50 | 17°26'34 | 6♌23 | 28°56 | 15°10 | 17°57 | 7° 2 | 4°23 | 1°48 | 27°49 | 7°55 | 13°38 | 15° 2 | 5°51 | n.a. | W11 |
| T 12 | 11 5 47 | 18°25'20 | 18°40 | 0♓39 | 15°20 | 18°44 | 7°15 | 4°29 | 1°51 | 27°51 | 7°56 | 13°28 | 14°59 | 5°58 | n.a. | T 12 |
| F 13 | 11 9 44 | 19°24'03 | 0♍48 | 2°23 | 15°32 | 19°30 | 7°27 | 4°36 | 1°54 | 27°53 | 7°57 | 13°18 | 14°55 | 6° 4 | n.a. | F 13 |
| S 14 | 11 13 40 | 20°22'45 | 12°49 | 4° 8 | 15°46 | 20°17 | 7°39 | 4°42 | 1°58 | 27°55 | 7°58 | 13° 8 | 14°52 | 6°11 | n.a. | S 14 |
| S 15 | 11 17 37 | 21°21'24 | 24°45 | 5°55 | 16° 2 | 21° 3 | 7°52 | 4°49 | 2° 1 | 27°56 | 7°59 | 12°58 | 14°49 | 6°18 | n.a. | S 15 |
| M16 | 11 21 33 | 22°20'01 | 6♎36 | 7°43 | 16°21 | 21°50 | 8° 4 | 4°55 | 2° 4 | 27°58 | 8° 0 | 12°51 | 14°46 | 6°24 | n.a. | M16 |
| T 17 | 11 25 30 | 23°18'36 | 18°25 | 9°33 | 16°41 | 22°36 | 8°16 | 5° 2 | 2° 7 | 28° 0 | 8° 1 | 12°46 | 14°43 | 6°31 | n.a. | T 17 |
| W18 | 11 29 26 | 24°17'10 | 0♏13 | 11°25 | 17° 3 | 23°23 | 8°28 | 5° 8 | 2°11 | 28° 2 | 8° 2 | 12°43 | 14°40 | 6°38 | n.a. | W18 |
| T 19 | 11 33 23 | 25°15'41 | 12° 5 | 13°18 | 17°26 | 24° 9 | 8°40 | 5°15 | 2°14 | 28° 4 | 8° 3 | 12°D42 | 14°36 | 6°44 | n.a. | T 19 |
| F 20 | 11 37 19 | 26°14'11 | 24° 4 | 15°13 | 17°52 | 24°55 | 8°52 | 5°21 | 2°17 | 28° 6 | 8° 4 | 12°42 | 14°33 | 6°51 | n.a. | F 20 |
| S 21 | 11 41 16 | 27°12'39 | 6♐13 | 17° 9 | 18°19 | 25°42 | 9° 4 | 5°28 | 2°20 | 28° 8 | 8° 5 | 12°44 | 14°30 | 6°58 | n.a. | S 21 |
| S 22 | 11 45 13 | 28°11'05 | 18°38 | 19° 7 | 18°47 | 26°28 | 9°16 | 5°35 | 2°23 | 28°10 | 8° 7 | 12°45 | 14°27 | 7° 5 | n.a. | S 22 |
| M23 | 11 49 9 | 29° 9'30 | 1♑22 | 21° 6 | 19°17 | 27°14 | 9°28 | 5°42 | 2°27 | 28°12 | 8° 8 | 12°R45 | 14°24 | 7°11 | n.a. | M23 |
| T 24 | 11 53 6 | 0♈ 7'53 | 14°31 | 23° 7 | 19°49 | 28° 1 | 9°39 | 5°49 | 2°30 | 28°14 | 8° 9 | 12°44 | 14°20 | 7°18 | n.a. | T 24 |
| W25 | 11 57 2 | 1° 6'14 | 28° 8 | 25° 9 | 20°22 | 28°47 | 9°51 | 5°56 | 2°33 | 28°16 | 8°10 | 12°42 | 14°17 | 7°25 | n.a. | W25 |
| T 26 | 12 0 59 | 2° 4'34 | 12♒13 | 27°12 | 20°56 | 29°33 | 10° 2 | 6° 3 | 2°36 | 28°18 | 8°11 | 12°37 | 14°14 | 7°31 | n.a. | T 26 |
| F 27 | 12 4 55 | 3° 2'52 | 26°46 | 29°17 | 21°32 | 0♓19 | 10°14 | 6°10 | 2°39 | 28°20 | 8°12 | 12°32 | 14°11 | 7°38 | n.a. | F 27 |
| S 28 | 12 8 52 | 4° 1'08 | 11♓41 | 1♈23 | 22° 8 | 1° 5 | 10°25 | 6°17 | 2°42 | 28°22 | 8°13 | 12°26 | 14° 8 | 7°45 | n.a. | S 28 |
| S 29 | 12 12 48 | 4°59'22 | 26°51 | 3°30 | 22°46 | 1°51 | 10°36 | 6°24 | 2°45 | 28°24 | 8°14 | 12°21 | 14° 5 | 7°51 | n.a. | S 29 |
| M30 | 12 16 45 | 5°57'35 | 12♈ 6 | 5°38 | 23°26 | 2°37 | 10°47 | 6°31 | 2°48 | 28°26 | 8°16 | 12°16 | 14° 1 | 7°58 | n.a. | M30 |
| T 31 | 12 20 41 | 6♈55'46 | 27♈16 | 7♈47 | 24♒ 6 | 3♓23 | 10♒58 | 6♉38 | 2♓51 | 28♈29 | 8♉17 | 12♏14 | 13♏58 | 8♎ 5 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| S 1 | 8s48 | 0s44 | 4n10 | 18s58 | 2s 2 | 9s20 | 7n19 | 19s 0 | 1s 9 | 20s 1 | 0s47 | 10n53 | 2s 1 | 11s51 | 0s44 | 8n57 | 1s53 | 2n59 | 11s55 | 16s16 | 16s41 | 4s59 | | | n.a. |
| M 2 | 8 26 | 4n30 | 3 17 | 18 36 | 2 6 | 9 34 | 7 9 | 18 47 | 1 9 | 19 57 | 0 47 | 10 55 | 2 1 | 11 49 | 0 44 | 8 57 | 1 53 | 2 59 | 11 55 | 16 13 | 16 40 | 5 1 | | | n.a. |
| T 3 | 8 4 | 9 24 | 2 10 | 18 12 | 2 9 | 9 47 | 6 58 | 18 34 | 1 10 | 19 54 | 0 47 | 10 58 | 2 1 | 11 48 | 0 44 | 8 58 | 1 53 | 3 0 | 11 54 | 16 12 | 16 39 | 5 3 | | | n.a. |
| W 4 | 7 41 | 13 39 | 0 56 | 17 47 | 2 12 | 10 0 | 6 48 | 18 21 | 1 10 | 19 51 | 0 47 | 11 0 | 2 1 | 11 47 | 0 44 | 8 59 | 1 53 | 3 0 | 11 54 | 16 11 | 16 38 | 5 6 | | | n.a. |
| T 5 | 7 19 | 16 58 | 0s20 | 17 21 | 2 14 | 10 12 | 6 37 | 18 8 | 1 10 | 19 48 | 0 47 | 11 2 | 2 0 | 11 46 | 0 44 | 8 59 | 1 53 | 3 1 | 11 54 | 16 11 | 16 37 | 5 8 | | | n.a. |
| F 6 | 6 56 | 19 11 | 1 33 | 16 52 | 2 16 | 10 24 | 6 25 | 17 55 | 1 10 | 19 45 | 0 47 | 11 4 | 2 0 | 11 44 | 0 44 | 9 0 | 1 53 | 3 1 | 11 54 | 16 11 | 16 36 | 5 10 | | | n.a. |
| S 7 | 6 33 | 20 14 | 2 39 | 16 23 | 2 18 | 10 36 | 6 14 | 17 41 | 1 10 | 19 42 | 0 48 | 11 6 | 2 0 | 11 43 | 0 44 | 9 1 | 1 53 | 3 2 | 11 53 | 16 11 | 16 35 | 5 12 | | | n.a. |
| S 8 | 6 10 | 20 7 | 3 34 | 15 51 | 2 19 | 10 46 | 6 2 | 17 27 | 1 11 | 19 39 | 0 48 | 11 9 | 2 0 | 11 42 | 0 44 | 9 1 | 1 53 | 3 2 | 11 53 | 16 11 | 16 34 | 5 14 | | | n.a. |
| M 9 | 5 47 | 18 56 | 4 18 | 15 19 | 2 19 | 10 57 | 5 51 | 17 13 | 1 11 | 19 36 | 0 48 | 11 11 | 2 0 | 11 41 | 0 44 | 9 2 | 1 53 | 3 3 | 11 53 | 16 10 | 16 33 | 5 16 | | | n.a. |
| T 10 | 5 24 | 16 51 | 4 47 | 14 44 | 2 20 | 11 6 | 5 39 | 16 59 | 1 11 | 19 33 | 0 48 | 11 13 | 1 59 | 11 40 | 0 44 | 9 3 | 1 53 | 3 3 | 11 53 | 16 9 | 16 32 | 5 18 | | | n.a. |
| W11 | 5 1 | 14 0 | 5 3 | 14 8 | 2 19 | 11 15 | 5 28 | 16 45 | 1 11 | 19 30 | 0 48 | 11 15 | 1 59 | 11 38 | 0 44 | 9 3 | 1 53 | 3 4 | 11 52 | 16 6 | 16 31 | 5 20 | | | n.a. |
| T 12 | 4 38 | 10 35 | 5 4 | 13 31 | 2 18 | 11 23 | 5 16 | 16 30 | 1 11 | 19 27 | 0 48 | 11 18 | 1 59 | 11 37 | 0 44 | 9 4 | 1 53 | 3 4 | 11 52 | 16 3 | 16 31 | 5 22 | | | n.a. |
| F 13 | 4 14 | 6 46 | 4 51 | 12 52 | 2 17 | 11 31 | 5 4 | 16 16 | 1 12 | 19 24 | 0 49 | 11 20 | 1 59 | 11 36 | 0 44 | 9 5 | 1 53 | 3 5 | 11 52 | 16 0 | 16 30 | 5 24 | | | n.a. |
| S 14 | 3 51 | 2 44 | 4 26 | 12 11 | 2 15 | 11 38 | 4 53 | 16 1 | 1 12 | 19 21 | 0 49 | 11 22 | 1 59 | 11 35 | 0 44 | 9 6 | 1 53 | 3 5 | 11 52 | 15 57 | 16 29 | 5 26 | | | n.a. |
| S 15 | 3 28 | 1s23 | 3 49 | 11 29 | 2 12 | 11 44 | 4 41 | 15 46 | 1 12 | 19 17 | 0 49 | 11 25 | 1 58 | 11 34 | 0 44 | 9 6 | 1 53 | 3 6 | 11 52 | 15 54 | 16 28 | 5 28 | | | n.a. |
| M16 | 3 4 | 5 25 | 3 2 | 10 46 | 2 9 | 11 50 | 4 30 | 15 31 | 1 12 | 19 14 | 0 49 | 11 27 | 1 58 | 11 33 | 0 44 | 9 7 | 1 53 | 3 6 | 11 51 | 15 52 | 16 27 | 5 30 | | | n.a. |
| T 17 | 2 41 | 9 15 | 2 7 | 10 0 | 2 6 | 11 54 | 4 18 | 15 16 | 1 12 | 19 11 | 0 49 | 11 29 | 1 58 | 11 31 | 0 44 | 9 8 | 1 53 | 3 7 | 11 51 | 15 50 | 16 26 | 5 32 | | | n.a. |
| W18 | 2 18 | 12 43 | 1 7 | 9 14 | 2 1 | 11 59 | 4 7 | 15 1 | 1 12 | 19 8 | 0 49 | 11 32 | 1 58 | 11 30 | 0 44 | 9 8 | 1 53 | 3 7 | 11 51 | 15 49 | 16 25 | 5 34 | | | n.a. |
| T 19 | 1 54 | 15 41 | 0 3 | 8 26 | 1 57 | 12 2 | 3 56 | 14 45 | 1 12 | 19 5 | 0 50 | 11 34 | 1 58 | 11 29 | 0 44 | 9 9 | 1 53 | 3 8 | 11 51 | 15 49 | 16 24 | 5 36 | | | n.a. |
| F 20 | 1 31 | 18 0 | 1n 1 | 7 36 | 1 52 | 12 5 | 3 45 | 14 30 | 1 12 | 19 2 | 0 50 | 11 37 | 1 57 | 11 28 | 0 44 | 9 10 | 1 53 | 3 8 | 11 51 | 15 49 | 16 23 | 5 38 | | | n.a. |
| S 21 | 1 7 | 19 33 | 2 4 | 6 45 | 1 46 | 12 7 | 3 34 | 14 14 | 1 13 | 18 59 | 0 50 | 11 39 | 1 57 | 11 27 | 0 44 | 9 11 | 1 53 | 3 9 | 11 50 | 15 50 | 16 22 | 5 40 | | | n.a. |
| S 22 | 0 44 | 20 11 | 3 2 | 5 53 | 1 40 | 12 8 | 3 23 | 13 58 | 1 13 | 18 56 | 0 50 | 11 41 | 1 57 | 11 26 | 0 44 | 9 11 | 1 53 | 3 9 | 11 50 | 15 50 | 16 21 | 5 42 | | | n.a. |
| M23 | 0 20 | 19 49 | 3 53 | 4 59 | 1 33 | 12 9 | 3 13 | 13 42 | 1 13 | 18 53 | 0 50 | 11 44 | 1 57 | 11 24 | 0 44 | 9 12 | 1 52 | 3 10 | 11 50 | 15 50 | 16 20 | 5 44 | | | n.a. |
| T 24 | 0n 3 | 18 22 | 4 34 | 4 5 | 1 26 | 12 9 | 3 2 | 13 26 | 1 13 | 18 50 | 0 51 | 11 46 | 1 57 | 11 23 | 0 44 | 9 13 | 1 52 | 3 10 | 11 50 | 15 50 | 16 19 | 5 46 | | | n.a. |
| W25 | 0 27 | 15 51 | 5 1 | 3 9 | 1 18 | 12 9 | 2 52 | 13 10 | 1 13 | 18 48 | 0 51 | 11 49 | 1 57 | 11 22 | 0 44 | 9 14 | 1 52 | 3 11 | 11 50 | 15 49 | 16 18 | 5 48 | | | n.a. |
| T 26 | 0 50 | 12 21 | 5 10 | 2 11 | 1 10 | 12 7 | 2 42 | 12 54 | 1 13 | 18 45 | 0 51 | 11 51 | 1 56 | 11 21 | 0 44 | 9 14 | 1 52 | 3 11 | 11 49 | 15 48 | 16 17 | 5 50 | | | n.a. |
| F 27 | 1 13 | 8 1 | 5 1 | 1 13 | 1 1 | 12 5 | 2 32 | 12 37 | 1 13 | 18 42 | 0 51 | 11 54 | 1 56 | 11 20 | 0 44 | 9 15 | 1 52 | 3 12 | 11 49 | 15 46 | 16 16 | 5 52 | | | n.a. |
| S 28 | 1 37 | 3 5 | 4 31 | 0 14 | 0 52 | 12 3 | 2 22 | 12 21 | 1 13 | 18 39 | 0 51 | 11 56 | 1 56 | 11 19 | 0 44 | 9 16 | 1 52 | 3 12 | 11 49 | 15 44 | 16 15 | 5 54 | | | n.a. |
| S 29 | 2 0 | 2n 7 | 3 42 | 0n45 | 0 43 | 11 59 | 2 13 | 12 4 | 1 13 | 18 36 | 0 52 | 11 59 | 1 56 | 11 18 | 0 44 | 9 17 | 1 52 | 3 13 | 11 49 | 15 43 | 16 14 | 5 56 | | | n.a. |
| M30 | 2 24 | 7 14 | 2 37 | 1 46 | 0 33 | 11 55 | 2 3 | 11 47 | 1 13 | 18 33 | 0 52 | 12 1 | 1 56 | 11 17 | 0 44 | 9 17 | 1 52 | 3 13 | 11 49 | 15 41 | 16 13 | 5 58 | | | n.a. |
| T 31 | 2n47 | 11n52 | 1n21 | 2n46 | 0s23 | 11s51 | 1n54 | 11s31 | 1s13 | 18s30 | 0s52 | 12n 4 | 1s56 | 11s16 | 0s45 | 9n18 | 1s52 | 3n14 | 11s49 | 15s41 | 16s12 | 6s 0 | | | n.a. |

Julian Day Number = 1688244.5, Delta T = 03h11m51s
Ecliptic obliquity = 23°42'16, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°19'09, Lahiri = - 5°12'08 Julian Calendar 1 March 91 BCE == Greg. Calendar 27 Feb. 091 BCE

The year -90 astronomical counting style corresponds to year 091 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 91 BCE
# geocentric

## APRIL 91 BCE (-90) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 12 24 38 | 7♈53'55 | 12♉11 | 9♈56 | 24♒47 | 4♓ 9 | 11♒ 9 | 6♉45 | 2♓54 | 28♈31 | 8♉18 | 12°D13 | 13♏55 | 8♎11 | n.a. | W 1 |
| T 2 | 12 28 35 | 8°52'02 | 26°44 | 12° 5 | 25°29 | 4°55 | 11°20 | 6°53 | 2°57 | 28°33 | 8°19 | 12♏14 | 13°52 | 8°18 | n.a. | T 2 |
| F 3 | 12 32 31 | 9°50'07 | 10♊53 | 14°14 | 26°12 | 5°41 | 11°30 | 7° 0 | 3° 0 | 28°35 | 8°20 | 12°15 | 13°49 | 8°25 | n.a. | F 3 |
| S 4 | 12 36 28 | 10°48'10 | 24°35 | 16°23 | 26°57 | 6°27 | 11°41 | 7° 7 | 3° 3 | 28°37 | 8°22 | 12°17 | 13°46 | 8°31 | n.a. | S 4 |
| S 5 | 12 40 24 | 11°46'11 | 7♋53 | 18°31 | 27°42 | 7°13 | 11°51 | 7°15 | 3° 6 | 28°39 | 8°23 | 12°R17 | 13°42 | 8°38 | n.a. | S 5 |
| M 6 | 12 44 21 | 12°44'10 | 20°48 | 20°39 | 28°28 | 7°58 | 12° 2 | 7°22 | 3° 8 | 28°41 | 8°24 | 12°17 | 13°39 | 8°45 | n.a. | M 6 |
| T 7 | 12 48 17 | 13°42'07 | 3♌24 | 22°45 | 29°14 | 8°44 | 12°12 | 7°30 | 3°11 | 28°44 | 8°25 | 12°16 | 13°36 | 8°51 | n.a. | T 7 |
| W 8 | 12 52 14 | 14°40'02 | 15°44 | 24°50 | 0♓ 2 | 9°30 | 12°22 | 7°37 | 3°14 | 28°46 | 8°27 | 12°13 | 13°33 | 8°58 | n.a. | W 8 |
| T 9 | 12 56 10 | 15°37'55 | 27°52 | 26°53 | 0°50 | 10°15 | 12°32 | 7°45 | 3°17 | 28°48 | 8°28 | 12° 9 | 13°30 | 9° 5 | n.a. | T 9 |
| F 10 | 13 0 7 | 16°35'46 | 9♍52 | 28°54 | 1°39 | 11° 1 | 12°42 | 7°52 | 3°20 | 28°50 | 8°29 | 12° 5 | 13°26 | 9°11 | n.a. | F 10 |
| S 11 | 13 4 4 | 17°33'35 | 21°46 | 0♉53 | 2°29 | 11°47 | 12°52 | 8° 0 | 3°22 | 28°52 | 8°30 | 12° 1 | 13°23 | 9°18 | n.a. | S 11 |
| S 12 | 13 8 0 | 18°31'23 | 3♎36 | 2°49 | 3°19 | 12°32 | 13° 2 | 8° 7 | 3°25 | 28°55 | 8°32 | 11°57 | 13°20 | 9°25 | n.a. | S 12 |
| M13 | 13 11 57 | 19°29'09 | 15°25 | 4°43 | 4°10 | 13°18 | 13°11 | 8°15 | 3°27 | 28°57 | 8°33 | 11°54 | 13°17 | 9°31 | n.a. | M13 |
| T 14 | 13 15 53 | 20°26'54 | 27°15 | 6°34 | 5° 2 | 14° 3 | 13°21 | 8°22 | 3°30 | 28°59 | 8°34 | 11°52 | 13°14 | 9°38 | n.a. | T 14 |
| W15 | 13 19 50 | 21°24'37 | 9♏ 8 | 8°22 | 5°54 | 14°48 | 13°30 | 8°30 | 3°33 | 29° 1 | 8°36 | 11°D52 | 13°11 | 9°45 | n.a. | W15 |
| T 16 | 13 23 46 | 22°22'19 | 21° 7 | 10° 6 | 6°47 | 15°34 | 13°39 | 8°38 | 3°35 | 29° 4 | 8°37 | 11°52 | 13° 7 | 9°51 | n.a. | T 16 |
| F 17 | 13 27 43 | 23°20'00 | 3♐13 | 11°48 | 7°41 | 16°19 | 13°48 | 8°45 | 3°38 | 29° 6 | 8°38 | 11°53 | 13° 4 | 9°58 | n.a. | F 17 |
| S 18 | 13 31 39 | 24°17'39 | 15°29 | 13°27 | 8°35 | 17° 4 | 13°57 | 8°53 | 3°40 | 29° 8 | 8°40 | 11°54 | 13° 1 | 10° 5 | n.a. | S 18 |
| S 19 | 13 35 36 | 25°15'17 | 28° 0 | 15° 2 | 9°29 | 17°49 | 14° 6 | 9° 1 | 3°43 | 29°10 | 8°41 | 11°55 | 12°58 | 10°11 | n.a. | S 19 |
| M20 | 13 39 33 | 26°12'54 | 10♑48 | 16°34 | 10°24 | 18°34 | 14°15 | 9° 9 | 3°45 | 29°13 | 8°42 | 11°57 | 12°55 | 10°18 | n.a. | M20 |
| T 21 | 13 43 29 | 27°10'30 | 23°56 | 18° 2 | 11°20 | 19°19 | 14°23 | 9°16 | 3°47 | 29°15 | 8°44 | 11°R57 | 12°52 | 10°25 | n.a. | T 21 |
| W22 | 13 47 26 | 28° 8'05 | 7♒27 | 19°27 | 12°16 | 20° 4 | 14°32 | 9°24 | 3°50 | 29°17 | 8°45 | 11°57 | 12°48 | 10°31 | n.a. | W22 |
| T 23 | 13 51 22 | 29° 5'39 | 21°22 | 20°49 | 13°12 | 20°49 | 14°40 | 9°32 | 3°52 | 29°19 | 8°46 | 11°56 | 12°45 | 10°38 | n.a. | T 23 |
| F 24 | 13 55 19 | 0♉ 3'11 | 5♓42 | 22° 7 | 14° 9 | 21°34 | 14°48 | 9°40 | 3°54 | 29°22 | 8°48 | 11°55 | 12°42 | 10°45 | n.a. | F 24 |
| S 25 | 13 59 15 | 1° 0'43 | 20°23 | 23°21 | 15° 7 | 22°19 | 14°56 | 9°48 | 3°56 | 29°24 | 8°49 | 11°54 | 12°39 | 10°51 | n.a. | S 25 |
| S 26 | 14 3 12 | 1°58'14 | 5♈20 | 24°32 | 16° 4 | 23° 4 | 15° 4 | 9°55 | 3°59 | 29°26 | 8°50 | 11°53 | 12°36 | 10°58 | n.a. | S 26 |
| M27 | 14 7 8 | 2°55'44 | 20°26 | 25°39 | 17° 3 | 23°49 | 15°12 | 10° 3 | 4° 1 | 29°28 | 8°52 | 11°52 | 12°32 | 11° 5 | n.a. | M27 |
| T 28 | 14 11 5 | 3°53'12 | 5♉31 | 26°42 | 18° 1 | 24°34 | 15°20 | 10°11 | 4° 3 | 29°31 | 8°53 | 11°D51 | 12°29 | 11°11 | n.a. | T 28 |
| W29 | 14 15 2 | 4°50'40 | 20°28 | 27°42 | 19° 0 | 25°18 | 15°27 | 10°19 | 4° 5 | 29°33 | 8°54 | 11°51 | 12°26 | 11°18 | n.a. | W29 |
| T 30 | 14 18 58 | 5♉48'07 | 5♊ 7 | 28♉37 | 19♓59 | 26♓ 3 | 15♒35 | 10♉27 | 4♓ 7 | 29♈35 | 8♉56 | 11♏52 | 12♏23 | 11♎25 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 3n10 | 15n40 | 0n 0 | 3n47 | 0s12 | 11s45 | 1n45 | 11s14 | 1s13 | 18s27 | 0s52 | 12n 6 | 1s55 | 11s15 | 0s45 | 9n19 | 1s52 | 3n15 | 11s48 | 15s40 | 16s11 | 6s 3 | | n.a. |
| T 2 | 3 33 | 18 22 | 1s19 | 4 48 | 0 2 | 11 40 | 1 36 | 10 57 | 1 13 | 18 25 | 0 52 | 12 9 | 1 55 | 11 14 | 0 45 | 9 20 | 1 52 | 3 15 | 11 48 | 15 41 | 16 11 | 6 5 | | n.a. |
| F 3 | 3 56 | 19 51 | 2 30 | 5 49 | 0n 9 | 11 33 | 1 27 | 10 40 | 1 13 | 18 22 | 0 53 | 12 11 | 1 55 | 11 13 | 0 45 | 9 21 | 1 52 | 3 16 | 11 48 | 15 41 | 16 10 | 6 7 | | n.a. |
| S 4 | 4 19 | 20 4 | 3 31 | 6 49 | 0 20 | 11 26 | 1 19 | 10 23 | 1 13 | 18 19 | 0 53 | 12 14 | 1 55 | 11 11 | 0 45 | 9 21 | 1 52 | 3 16 | 11 48 | 15 41 | 16 9 | 6 9 | | n.a. |
| S 5 | 4 42 | 19 10 | 4 19 | 7 48 | 0 30 | 11 18 | 1 10 | 10 5 | 1 13 | 18 16 | 0 53 | 12 16 | 1 55 | 11 10 | 0 45 | 9 22 | 1 52 | 3 17 | 11 48 | 15 42 | 16 8 | 6 11 | | n.a. |
| M 6 | 5 5 | 17 16 | 4 52 | 8 47 | 0 41 | 11 10 | 1 2 | 9 48 | 1 13 | 18 14 | 0 53 | 12 19 | 1 55 | 11 9 | 0 45 | 9 23 | 1 52 | 3 17 | 11 48 | 15 42 | 16 7 | 6 13 | | n.a. |
| T 7 | 5 28 | 14 35 | 5 10 | 9 44 | 0 52 | 11 1 | 0 54 | 9 31 | 1 13 | 18 11 | 0 54 | 12 22 | 1 55 | 11 8 | 0 45 | 9 24 | 1 52 | 3 18 | 11 47 | 15 41 | 16 6 | 6 15 | | n.a. |
| W 8 | 5 51 | 11 19 | 5 13 | 10 41 | 1 2 | 10 52 | 0 46 | 9 13 | 1 13 | 18 8 | 0 54 | 12 24 | 1 54 | 11 7 | 0 45 | 9 25 | 1 52 | 3 18 | 11 47 | 15 40 | 16 5 | 6 17 | | n.a. |
| T 9 | 6 13 | 7 37 | 5 2 | 11 35 | 1 12 | 10 42 | 0 39 | 8 56 | 1 13 | 18 6 | 0 54 | 12 27 | 1 54 | 11 6 | 0 45 | 9 25 | 1 52 | 3 19 | 11 47 | 15 39 | 16 4 | 6 19 | | n.a. |
| F 10 | 6 36 | 3 40 | 4 38 | 12 28 | 1 21 | 10 31 | 0 31 | 8 38 | 1 13 | 18 3 | 0 54 | 12 29 | 1 54 | 11 5 | 0 45 | 9 26 | 1 52 | 3 19 | 11 47 | 15 38 | 16 3 | 6 20 | | n.a. |
| S 11 | 6 58 | 0s24 | 4 2 | 13 19 | 1 30 | 10 20 | 0 24 | 8 21 | 1 13 | 18 0 | 0 54 | 12 32 | 1 54 | 11 5 | 0 45 | 9 27 | 1 52 | 3 20 | 11 47 | 15 37 | 16 2 | 6 22 | | n.a. |
| S 12 | 7 20 | 4 26 | 3 15 | 14 8 | 1 39 | 10 8 | 0 17 | 8 3 | 1 13 | 17 58 | 0 55 | 12 34 | 1 54 | 11 4 | 0 45 | 9 28 | 1 52 | 3 20 | 11 47 | 15 35 | 16 1 | 6 24 | | n.a. |
| M13 | 7 42 | 8 18 | 2 21 | 14 55 | 1 47 | 9 56 | 0 10 | 7 45 | 1 13 | 17 55 | 0 55 | 12 37 | 1 54 | 11 3 | 0 45 | 9 29 | 1 52 | 3 21 | 11 47 | 15 34 | 16 0 | 6 26 | | n.a. |
| T 14 | 8 4 | 11 51 | 1 20 | 15 39 | 1 55 | 9 43 | 0 3 | 7 28 | 1 13 | 17 53 | 0 55 | 12 39 | 1 54 | 11 2 | 0 45 | 9 29 | 1 52 | 3 21 | 11 47 | 15 34 | 15 59 | 6 28 | | n.a. |
| W15 | 8 26 | 14 56 | 0 15 | 16 22 | 2 1 | 9 30 | 0s 3 | 7 10 | 1 13 | 17 50 | 0 55 | 12 42 | 1 54 | 11 1 | 0 45 | 9 30 | 1 52 | 3 22 | 11 46 | 15 34 | 15 58 | 6 30 | | n.a. |
| T 16 | 8 48 | 17 25 | 0n51 | 17 1 | 2 7 | 9 16 | 0 10 | 6 52 | 1 13 | 17 48 | 0 56 | 12 45 | 1 54 | 11 0 | 0 45 | 9 31 | 1 52 | 3 22 | 11 46 | 15 34 | 15 57 | 6 32 | | n.a. |
| F 17 | 9 10 | 19 9 | 1 55 | 17 39 | 2 13 | 9 2 | 0 16 | 6 34 | 1 12 | 17 45 | 0 56 | 12 47 | 1 53 | 10 59 | 0 45 | 9 32 | 1 52 | 3 23 | 11 46 | 15 34 | 15 56 | 6 34 | | n.a. |
| S 18 | 9 31 | 20 0 | 2 55 | 18 14 | 2 17 | 8 47 | 0 22 | 6 16 | 1 12 | 17 43 | 0 56 | 12 50 | 1 53 | 10 58 | 0 45 | 9 33 | 1 52 | 3 23 | 11 46 | 15 34 | 15 55 | 6 36 | | n.a. |
| S 19 | 9 53 | 19 53 | 3 48 | 18 46 | 2 21 | 8 32 | 0 28 | 5 58 | 1 12 | 17 41 | 0 56 | 12 52 | 1 53 | 10 57 | 0 45 | 9 33 | 1 52 | 3 24 | 11 46 | 15 35 | 15 54 | 6 38 | | n.a. |
| M20 | 10 14 | 18 45 | 4 31 | 19 17 | 2 24 | 8 16 | 0 34 | 5 40 | 1 12 | 17 38 | 0 57 | 12 55 | 1 53 | 10 56 | 0 45 | 9 34 | 1 52 | 3 24 | 11 46 | 15 35 | 15 53 | 6 40 | | n.a. |
| T 21 | 10 35 | 16 37 | 5 1 | 19 44 | 2 27 | 8 0 | 0 39 | 5 22 | 1 12 | 17 36 | 0 57 | 12 58 | 1 53 | 10 56 | 0 45 | 9 35 | 1 52 | 3 25 | 11 46 | 15 35 | 15 52 | 6 42 | | n.a. |
| W22 | 10 56 | 13 31 | 5 16 | 20 10 | 2 28 | 7 43 | 0 45 | 5 4 | 1 12 | 17 34 | 0 57 | 13 0 | 1 53 | 10 55 | 0 45 | 9 36 | 1 52 | 3 25 | 11 46 | 15 35 | 15 51 | 6 44 | | n.a. |
| T 23 | 11 16 | 9 36 | 5 13 | 20 33 | 2 29 | 7 26 | 0 50 | 4 46 | 1 12 | 17 32 | 0 57 | 13 3 | 1 53 | 10 54 | 0 45 | 9 37 | 1 52 | 3 26 | 11 46 | 15 35 | 15 50 | 6 46 | | n.a. |
| F 24 | 11 37 | 5 2 | 4 50 | 20 53 | 2 29 | 7 9 | 0 55 | 4 28 | 1 11 | 17 29 | 0 58 | 13 5 | 1 53 | 10 53 | 0 45 | 9 37 | 1 52 | 3 26 | 11 46 | 15 35 | 15 49 | 6 48 | | n.a. |
| S 25 | 11 57 | 0 3 | 4 8 | 21 12 | 2 27 | 6 51 | 1 0 | 4 10 | 1 11 | 17 27 | 0 58 | 13 8 | 1 53 | 10 52 | 0 45 | 9 38 | 1 52 | 3 27 | 11 46 | 15 34 | 15 48 | 6 50 | | n.a. |
| S 26 | 12 17 | 5n 2 | 3 9 | 21 28 | 2 26 | 6 33 | 1 5 | 3 52 | 1 11 | 17 25 | 0 58 | 13 10 | 1 53 | 10 52 | 0 45 | 9 39 | 1 52 | 3 27 | 11 45 | 15 34 | 15 47 | 6 52 | | n.a. |
| M27 | 12 37 | 9 51 | 1 56 | 21 41 | 2 23 | 6 14 | 1 10 | 3 34 | 1 11 | 17 23 | 0 58 | 13 13 | 1 53 | 10 51 | 0 45 | 9 40 | 1 52 | 3 28 | 11 45 | 15 34 | 15 46 | 6 54 | | n.a. |
| T 28 | 12 57 | 14 3 | 0 35 | 21 53 | 2 19 | 5 55 | 1 14 | 3 16 | 1 11 | 17 21 | 0 59 | 13 15 | 1 52 | 10 50 | 0 45 | 9 41 | 1 52 | 3 28 | 11 45 | 15 34 | 15 45 | 6 56 | | n.a. |
| W29 | 13 17 | 17 18 | 0s48 | 22 3 | 2 14 | 5 36 | 1 19 | 2 58 | 1 11 | 17 19 | 0 59 | 13 18 | 1 52 | 10 49 | 0 45 | 9 41 | 1 52 | 3 29 | 11 45 | 15 34 | 15 44 | 6 58 | | n.a. |
| T 30 | 13n36 | 19n20 | 2s 6 | 22n10 | 2n 9 | 5s16 | 1s23 | 2s40 | 1s10 | 17s17 | 0s59 | 13n21 | 1s52 | 10s49 | 0s45 | 9n42 | 1s52 | 3n29 | 11s45 | 15s34 | 15s43 | 7s 0 | | n.a. |

Julian Day Number = 1688275.5, Delta T = 03h11m50s
Ecliptic obliquity = 23°42'16, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°19'04, Lahiri = - 5°12'04 Julian Calendar 1 Apr. 91 BCE == Greg. Calendar 30 March 091 BCE


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# ASTRODIENST EPHEMERIS for the year 91 BCE
# geocentric

## MAY 91 BCE (-90) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 14 22 55 | 6♉45'32 | 19♊24 | 29♉29 | 20♓59 | 26♓47 | 15♒42 | 10♉35 | 4♓ 9 | 29♈37 | 8♉57 | 11♏52 | 12♏20 | 11♎31 | n.a. | F 1 |
| S 2 | 14 26 51 | 7°42'56 | 3♋15 | 0♊16 | 21°59 | 27°32 | 15°49 | 10°43 | 4°11 | 29°39 | 8°59 | 11°53 | 12°17 | 11°38 | n.a. | S 2 |
| S 3 | 14 30 48 | 8°40'19 | 16°40 | 1° 0 | 22°59 | 28°16 | 15°56 | 10°50 | 4°13 | 29°42 | 9° 0 | 11°53 | 12°13 | 11°45 | n.a. | S 3 |
| M 4 | 14 34 44 | 9°37'40 | 29°40 | 1°39 | 24° 0 | 29° 1 | 16° 2 | 10°58 | 4°15 | 29°44 | 9° 1 | 11°53 | 12°10 | 11°51 | n.a. | M 4 |
| T 5 | 14 38 41 | 10°35'00 | 12♌18 | 2°14 | 25° 1 | 29°45 | 16° 9 | 11° 6 | 4°16 | 29°46 | 9° 3 | 11°R53 | 12° 7 | 11°58 | n.a. | T 5 |
| W 6 | 14 42 37 | 11°32'20 | 24°38 | 2°44 | 26° 2 | 0♈29 | 16°15 | 11°14 | 4°18 | 29°48 | 9° 4 | 11°D53 | 12° 4 | 12° 5 | n.a. | W 6 |
| T 7 | 14 46 34 | 12°29'37 | 6♍44 | 3°11 | 27° 3 | 1°13 | 16°22 | 11°22 | 4°20 | 29°51 | 9° 5 | 11°53 | 12° 1 | 12°11 | n.a. | T 7 |
| F 8 | 14 50 31 | 13°26'54 | 18°40 | 3°32 | 28° 5 | 1°57 | 16°28 | 11°30 | 4°22 | 29°53 | 9° 7 | 11°53 | 11°57 | 12°18 | n.a. | F 8 |
| S 9 | 14 54 27 | 14°24'10 | 0♎30 | 3°49 | 29° 7 | 2°42 | 16°34 | 11°38 | 4°23 | 29°55 | 9° 8 | 11°53 | 11°54 | 12°25 | n.a. | S 9 |
| S 10 | 14 58 24 | 15°21'25 | 12°19 | 4° 2 | 0♈ 9 | 3°26 | 16°40 | 11°46 | 4°25 | 29°57 | 9°10 | 11°54 | 11°51 | 12°31 | n.a. | S 10 |
| M11 | 15 2 20 | 16°18'38 | 24° 9 | 4°10 | 1°12 | 4° 9 | 16°45 | 11°53 | 4°27 | 29°59 | 9°11 | 11°54 | 11°48 | 12°38 | n.a. | M11 |
| T 12 | 15 6 17 | 17°15'51 | 6♏ 3 | 4°R13 | 2°14 | 4°53 | 16°51 | 12° 1 | 4°28 | 0♉ 1 | 9°12 | 11°R54 | 11°45 | 12°45 | n.a. | T 12 |
| W13 | 15 10 13 | 18°13'04 | 18° 4 | 4°12 | 3°17 | 5°37 | 16°56 | 12° 9 | 4°30 | 0° 4 | 9°14 | 11°54 | 11°42 | 12°51 | n.a. | W13 |
| T 14 | 15 14 10 | 19°10'16 | 0♐13 | 4° 6 | 4°21 | 6°21 | 17° 1 | 12°17 | 4°31 | 0° 6 | 9°15 | 11°54 | 11°38 | 12°58 | n.a. | T 14 |
| F 15 | 15 18 6 | 20° 7'27 | 12°32 | 3°56 | 5°24 | 7° 5 | 17° 6 | 12°25 | 4°32 | 0° 8 | 9°16 | 11°53 | 11°35 | 13° 5 | n.a. | F 15 |
| S 16 | 15 22 3 | 21° 4'37 | 25° 4 | 3°42 | 6°28 | 7°48 | 17°11 | 12°33 | 4°34 | 0°10 | 9°18 | 11°52 | 11°32 | 13°11 | n.a. | S 16 |
| S 17 | 15 26 0 | 22° 1'48 | 7♑48 | 3°24 | 7°32 | 8°32 | 17°16 | 12°41 | 4°35 | 0°12 | 9°19 | 11°51 | 11°29 | 13°18 | n.a. | S 17 |
| M18 | 15 29 56 | 22°58'58 | 20°47 | 3° 3 | 8°36 | 9°15 | 17°20 | 12°48 | 4°36 | 0°14 | 9°20 | 11°50 | 11°26 | 13°25 | n.a. | M18 |
| T 19 | 15 33 53 | 23°56'07 | 4♒ 3 | 2°38 | 9°40 | 9°59 | 17°24 | 12°56 | 4°38 | 0°16 | 9°22 | 11°49 | 11°23 | 13°31 | n.a. | T 19 |
| W20 | 15 37 49 | 24°53'17 | 17°35 | 2°10 | 10°44 | 10°42 | 17°28 | 13° 4 | 4°39 | 0°19 | 9°23 | 11°48 | 11°19 | 13°38 | n.a. | W20 |
| T 21 | 15 41 46 | 25°50'26 | 1♓25 | 1°40 | 11°49 | 11°26 | 17°32 | 13°12 | 4°40 | 0°21 | 9°24 | 11°D48 | 11°16 | 13°45 | n.a. | T 21 |
| F 22 | 15 45 42 | 26°47'35 | 15°33 | 1° 8 | 12°54 | 12° 9 | 17°36 | 13°19 | 4°41 | 0°23 | 9°26 | 11°49 | 11°13 | 13°51 | n.a. | F 22 |
| S 23 | 15 49 39 | 27°44'44 | 29°56 | 0°34 | 13°59 | 12°52 | 17°40 | 13°27 | 4°42 | 0°25 | 9°27 | 11°50 | 11°10 | 13°58 | n.a. | S 23 |
| S 24 | 15 53 35 | 28°41'53 | 14♈33 | 29♉59 | 15° 4 | 13°35 | 17°43 | 13°35 | 4°43 | 0°27 | 9°28 | 11°51 | 11° 7 | 14° 5 | n.a. | S 24 |
| M25 | 15 57 32 | 29°39'02 | 29°18 | 29°25 | 16°10 | 14°18 | 17°46 | 13°43 | 4°44 | 0°29 | 9°30 | 11°52 | 11° 3 | 14°11 | n.a. | M25 |
| T 26 | 16 1 29 | 0♊36'11 | 14♉ 5 | 28°50 | 17°15 | 15° 1 | 17°49 | 13°50 | 4°45 | 0°31 | 9°31 | 11°R52 | 11° 0 | 14°18 | n.a. | T 26 |
| W27 | 16 5 25 | 1°33'20 | 28°49 | 28°17 | 18°21 | 15°44 | 17°52 | 13°58 | 4°46 | 0°33 | 9°32 | 11°51 | 10°57 | 14°25 | n.a. | W27 |
| T 28 | 16 9 22 | 2°30'29 | 13♊20 | 27°45 | 19°27 | 16°27 | 17°55 | 14° 6 | 4°46 | 0°35 | 9°33 | 11°50 | 10°54 | 14°31 | n.a. | T 28 |
| F 29 | 16 13 18 | 3°27'37 | 27°34 | 27°15 | 20°33 | 17°10 | 17°57 | 14°13 | 4°47 | 0°37 | 9°35 | 11°47 | 10°51 | 14°38 | n.a. | F 29 |
| S 30 | 16 17 15 | 4°24'45 | 11♋26 | 26°47 | 21°39 | 17°53 | 18° 0 | 14°21 | 4°48 | 0°39 | 9°36 | 11°44 | 10°48 | 14°45 | n.a. | S 30 |
| S 31 | 16 21 11 | 5♊21'53 | 24♋54 | 26♉23 | 22♈46 | 18♈35 | 18♒ 2 | 14♉28 | 4♓48 | 0♉41 | 9♉37 | 11♏41 | 10♏44 | 14♎51 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 13n55 | 20n 3 | 3s14 | 22n15 | 2n 3 | 4s56 | 1s27 | 2s22 | 1s10 | 17s15 | 0s59 | 13n23 | 1s52 | 10s48 | 0s45 | 9n43 | 1s52 | 3n30 | 11s45 | 15s34 | 15s42 | 7s 2 | | n.a. |
| S 2 | 14 14 | 19 31 | 4 8 | 22 19 | 1 56 | 4 36 | 1 31 | 2 4 | 1 10 | 17 13 | 1 0 | 13 26 | 1 52 | 10 47 | 0 45 | 9 44 | 1 52 | 3 30 | 11 45 | 15 34 | 15 41 | 7 4 | | n.a. |
| S 3 | 14 33 | 17 54 | 4 48 | 22 20 | 1 47 | 4 15 | 1 34 | 1 46 | 1 10 | 17 11 | 1 0 | 13 28 | 1 52 | 10 47 | 0 45 | 9 45 | 1 52 | 3 31 | 11 45 | 15 34 | 15 40 | 7 6 | | n.a. |
| M 4 | 14 51 | 15 23 | 5 11 | 22 20 | 1 39 | 3 54 | 1 38 | 1 27 | 1 9 | 17 10 | 1 0 | 13 31 | 1 52 | 10 46 | 0 45 | 9 45 | 1 52 | 3 31 | 11 45 | 15 34 | 15 39 | 7 8 | | n.a. |
| T 5 | 15 10 | 12 13 | 5 18 | 22 17 | 1 29 | 3 33 | 1 41 | 1 9 | 1 9 | 17 8 | 1 1 | 13 33 | 1 52 | 10 45 | 0 45 | 9 46 | 1 52 | 3 31 | 11 45 | 15 34 | 15 38 | 7 10 | | n.a. |
| W 6 | 15 28 | 8 35 | 5 10 | 22 13 | 1 18 | 3 12 | 1 45 | 0 51 | 1 9 | 17 6 | 1 1 | 13 36 | 1 52 | 10 45 | 0 46 | 9 47 | 1 52 | 3 32 | 11 45 | 15 34 | 15 37 | 7 12 | | n.a. |
| T 7 | 15 45 | 4 41 | 4 48 | 22 7 | 1 7 | 2 50 | 1 48 | 0 33 | 1 9 | 17 5 | 1 1 | 13 38 | 1 52 | 10 44 | 0 46 | 9 48 | 1 52 | 3 32 | 11 45 | 15 34 | 15 36 | 7 13 | | n.a. |
| F 8 | 16 3 | 0 38 | 4 15 | 21 59 | 0 54 | 2 28 | 1 51 | 0 15 | 1 8 | 17 3 | 1 1 | 13 41 | 1 52 | 10 43 | 0 46 | 9 48 | 1 52 | 3 33 | 11 45 | 15 34 | 15 36 | 7 15 | | n.a. |
| S 9 | 16 20 | 3s25 | 3 30 | 21 49 | 0 41 | 2 5 | 1 54 | 0n 2 | 1 8 | 17 1 | 1 2 | 13 43 | 1 52 | 10 43 | 0 46 | 9 49 | 1 52 | 3 33 | 11 45 | 15 34 | 15 35 | 7 17 | | n.a. |
| S 10 | 16 37 | 7 20 | 2 37 | 21 38 | 0 28 | 1 43 | 1 56 | 0 20 | 1 8 | 17 0 | 1 2 | 13 46 | 1 52 | 10 42 | 0 46 | 9 50 | 1 52 | 3 34 | 11 45 | 15 34 | 15 34 | 7 19 | | n.a. |
| M11 | 16 54 | 10 58 | 1 37 | 21 26 | 0 13 | 1 20 | 1 59 | 0 38 | 1 8 | 16 59 | 1 2 | 13 48 | 1 52 | 10 42 | 0 46 | 9 51 | 1 52 | 3 34 | 11 45 | 15 34 | 15 33 | 7 21 | | n.a. |
| T 12 | 17 10 | 14 12 | 0 32 | 21 12 | 0s 2 | 0 57 | 2 1 | 0 56 | 1 7 | 16 57 | 1 3 | 13 51 | 1 52 | 10 41 | 0 46 | 9 52 | 1 52 | 3 34 | 11 45 | 15 35 | 15 32 | 7 23 | | n.a. |
| W13 | 17 27 | 16 51 | 0n34 | 20 56 | 0 17 | 0 34 | 2 4 | 1 14 | 1 7 | 16 56 | 1 3 | 13 53 | 1 52 | 10 41 | 0 46 | 9 52 | 1 52 | 3 35 | 11 45 | 15 35 | 15 31 | 7 25 | | n.a. |
| T 14 | 17 43 | 18 48 | 1 40 | 20 39 | 0 33 | 0 11 | 2 6 | 1 32 | 1 7 | 16 54 | 1 3 | 13 55 | 1 52 | 10 40 | 0 46 | 9 53 | 1 52 | 3 35 | 11 45 | 15 34 | 15 30 | 7 27 | | n.a. |
| F 15 | 17 58 | 19 52 | 2 42 | 20 21 | 0 50 | 0n13 | 2 8 | 1 50 | 1 6 | 16 53 | 1 3 | 13 58 | 1 52 | 10 40 | 0 46 | 9 54 | 1 52 | 3 36 | 11 45 | 15 34 | 15 29 | 7 29 | | n.a. |
| S 16 | 18 14 | 20 0 | 3 37 | 20 2 | 1 7 | 0 37 | 2 10 | 2 7 | 1 6 | 16 52 | 1 4 | 14 0 | 1 52 | 10 39 | 0 46 | 9 54 | 1 52 | 3 36 | 11 45 | 15 34 | 15 28 | 7 31 | | n.a. |
| S 17 | 18 29 | 19 6 | 4 23 | 19 42 | 1 23 | 1 0 | 2 12 | 2 25 | 1 6 | 16 51 | 1 4 | 14 3 | 1 51 | 10 39 | 0 46 | 9 55 | 1 52 | 3 36 | 11 45 | 15 33 | 15 27 | 7 33 | | n.a. |
| M18 | 18 43 | 17 12 | 4 56 | 19 22 | 1 40 | 1 24 | 2 13 | 2 43 | 1 5 | 16 50 | 1 4 | 14 5 | 1 51 | 10 38 | 0 46 | 9 56 | 1 52 | 3 37 | 11 45 | 15 33 | 15 26 | 7 35 | | n.a. |
| T 19 | 18 58 | 14 22 | 5 14 | 19 0 | 1 57 | 1 48 | 2 15 | 3 0 | 1 5 | 16 49 | 1 5 | 14 7 | 1 51 | 10 38 | 0 46 | 9 57 | 1 52 | 3 37 | 11 45 | 15 33 | 15 25 | 7 36 | | n.a. |
| W20 | 19 12 | 10 44 | 5 15 | 18 39 | 2 13 | 2 13 | 2 16 | 3 18 | 1 5 | 16 48 | 1 5 | 14 10 | 1 51 | 10 38 | 0 46 | 9 57 | 1 52 | 3 38 | 11 45 | 15 33 | 15 24 | 7 38 | | n.a. |
| T 21 | 19 26 | 6 26 | 4 58 | 18 17 | 2 29 | 2 37 | 2 17 | 3 35 | 1 4 | 16 47 | 1 5 | 14 12 | 1 51 | 10 37 | 0 46 | 9 58 | 1 52 | 3 38 | 11 45 | 15 33 | 15 23 | 7 40 | | n.a. |
| F 22 | 19 39 | 1 43 | 4 24 | 17 56 | 2 45 | 3 1 | 2 19 | 3 52 | 1 4 | 16 46 | 1 5 | 14 15 | 1 51 | 10 37 | 0 46 | 9 59 | 1 52 | 3 38 | 11 45 | 15 33 | 15 22 | 7 42 | | n.a. |
| S 23 | 19 53 | 3n12 | 3 32 | 17 34 | 2 59 | 3 26 | 2 20 | 4 10 | 1 3 | 16 45 | 1 6 | 14 17 | 1 51 | 10 36 | 0 46 | 9 59 | 1 52 | 3 39 | 11 45 | 15 33 | 15 21 | 7 44 | | n.a. |
| S 24 | 20 5 | 8 2 | 2 25 | 17 14 | 3 13 | 3 51 | 2 21 | 4 27 | 1 3 | 16 44 | 1 6 | 14 19 | 1 51 | 10 36 | 0 46 | 10 0 | 1 52 | 3 39 | 11 45 | 15 33 | 15 20 | 7 46 | | n.a. |
| M25 | 20 18 | 12 25 | 1 9 | 16 54 | 3 26 | 4 15 | 2 21 | 4 44 | 1 3 | 16 44 | 1 6 | 14 22 | 1 51 | 10 36 | 0 46 | 10 1 | 1 52 | 3 39 | 11 45 | 15 34 | 15 19 | 7 48 | | n.a. |
| T 26 | 20 30 | 16 3 | 0s12 | 16 35 | 3 37 | 4 40 | 2 22 | 5 1 | 1 2 | 16 43 | 1 7 | 14 24 | 1 51 | 10 36 | 0 46 | 10 2 | 1 52 | 3 40 | 11 45 | 15 34 | 15 18 | 7 50 | | n.a. |
| W27 | 20 42 | 18 37 | 1 32 | 16 18 | 3 48 | 5 5 | 2 23 | 5 19 | 1 2 | 16 42 | 1 7 | 14 26 | 1 51 | 10 35 | 0 46 | 10 2 | 1 52 | 3 40 | 11 45 | 15 34 | 15 17 | 7 52 | | n.a. |
| T 28 | 20 54 | 19 55 | 2 45 | 16 2 | 3 57 | 5 29 | 2 23 | 5 36 | 1 1 | 16 42 | 1 7 | 14 28 | 1 51 | 10 35 | 0 46 | 10 3 | 1 52 | 3 40 | 11 45 | 15 33 | 15 16 | 7 54 | | n.a. |
| F 29 | 21 5 | 19 55 | 3 46 | 15 47 | 4 5 | 5 54 | 2 23 | 5 52 | 1 1 | 16 41 | 1 8 | 14 31 | 1 51 | 10 35 | 0 46 | 10 4 | 1 52 | 3 41 | 11 45 | 15 32 | 15 15 | 7 55 | | n.a. |
| S 30 | 21 16 | 18 41 | 4 32 | 15 35 | 4 11 | 6 19 | 2 24 | 6 9 | 1 1 | 16 41 | 1 8 | 14 33 | 1 51 | 10 35 | 0 46 | 10 4 | 1 52 | 3 41 | 11 46 | 15 31 | 15 14 | 7 57 | | n.a. |
| S 31 | 21n26 | 16n27 | 5s 1 | 15n25 | 4s16 | 6n44 | 2s24 | 6n26 | 1s 0 | 16s41 | 1s 8 | 14n35 | 1s51 | 10s34 | 0s46 | 10n 5 | 1s52 | 3n41 | 11s46 | 15s30 | 15s13 | 7s59 | | n.a. |

Julian Day Number = 1688305.5, Delta T = 03h11m49s
Ecliptic obliquity = 23°42'15, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°19'00, Lahiri = - 5°12'00 Julian Calendar 1 May 91 BCE == Greg. Calendar 29 Apr. 091 BCE

The year -90 astronomical counting style corresponds to year 091 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 91 BCE
# geocentric

## JUNE 91 BCE (-90) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 16 25 8 | 6♊19'01 | 7♌58 | 26°R 2 | 23♈52 | 19♈18 | 18♒ 4 | 14♉36 | 4♓49 | 0♉43 | 9♉39 | 11°R38 | 10♏41 | 14♎58 | n.a. | M 1 |
| T 2 | 16 29 4 | 7°16'08 | 20°39 | 25♉44 | 24°59 | 20° 0 | 18° 6 | 14°43 | 4°50 | 0°44 | 9°40 | 11♏36 | 10°38 | 15° 5 | n.a. | T 2 |
| W 3 | 16 33 1 | 8°13'15 | 3♍ 0 | 25°31 | 26° 6 | 20°43 | 18° 7 | 14°51 | 4°50 | 0°46 | 9°41 | 11°D35 | 10°35 | 15°11 | n.a. | W 3 |
| T 4 | 16 36 58 | 9°10'22 | 15° 7 | 25°23 | 27°13 | 21°25 | 18° 8 | 14°58 | 4°51 | 0°48 | 9°42 | 11°35 | 10°32 | 15°18 | n.a. | T 4 |
| F 5 | 16 40 54 | 10° 7'28 | 27° 2 | 25°D19 | 28°20 | 22° 7 | 18°10 | 15° 6 | 4°51 | 0°50 | 9°43 | 11°36 | 10°29 | 15°24 | n.a. | F 5 |
| S 6 | 16 44 51 | 11° 4'35 | 8♎52 | 25°20 | 29°27 | 22°49 | 18°11 | 15°13 | 4°51 | 0°52 | 9°45 | 11°37 | 10°25 | 15°31 | n.a. | S 6 |
| S 7 | 16 48 47 | 12° 1'41 | 20°42 | 25°25 | 0♉34 | 23°32 | 18°11 | 15°20 | 4°52 | 0°54 | 9°46 | 11°39 | 10°22 | 15°38 | n.a. | S 7 |
| M 8 | 16 52 44 | 12°58'47 | 2♏34 | 25°36 | 1°42 | 24°14 | 18°12 | 15°28 | 4°52 | 0°55 | 9°47 | 11°40 | 10°19 | 15°44 | n.a. | M 8 |
| T 9 | 16 56 40 | 13°55'54 | 14°34 | 25°52 | 2°49 | 24°56 | 18°12 | 15°35 | 4°52 | 0°57 | 9°48 | 11°R41 | 10°16 | 15°51 | n.a. | T 9 |
| W10 | 17 0 37 | 14°53'00 | 26°44 | 26°14 | 3°57 | 25°38 | 18°R12 | 15°42 | 4°52 | 0°59 | 9°49 | 11°40 | 10°13 | 15°58 | n.a. | W10 |
| T 11 | 17 4 33 | 15°50'07 | 9♐ 6 | 26°40 | 5° 5 | 26°19 | 18°12 | 15°50 | 4°52 | 1° 1 | 9°50 | 11°37 | 10° 9 | 16° 4 | n.a. | T 11 |
| F 12 | 17 8 30 | 16°47'14 | 21°43 | 27°11 | 6°13 | 27° 1 | 18°12 | 15°57 | 4°52 | 1° 2 | 9°52 | 11°33 | 10° 6 | 16°11 | n.a. | F 12 |
| S 13 | 17 12 27 | 17°44'21 | 4♑34 | 27°48 | 7°21 | 27°43 | 18°12 | 16° 4 | 4°R53 | 1° 4 | 9°53 | 11°28 | 10° 3 | 16°18 | n.a. | S 13 |
| S 14 | 17 16 23 | 18°41'29 | 17°39 | 28°30 | 8°29 | 28°24 | 18°11 | 16°11 | 4°52 | 1° 6 | 9°54 | 11°22 | 10° 0 | 16°24 | n.a. | S 14 |
| M15 | 17 20 20 | 19°38'37 | 0♒59 | 29°17 | 9°37 | 29° 6 | 18°10 | 16°18 | 4°52 | 1° 7 | 9°55 | 11°16 | 9°57 | 16°31 | n.a. | M15 |
| T 16 | 17 24 16 | 20°35'46 | 14°30 | 0♊ 8 | 10°46 | 29°47 | 18°10 | 16°25 | 4°52 | 1° 9 | 9°56 | 11°10 | 9°54 | 16°38 | n.a. | T 16 |
| W17 | 17 28 13 | 21°32'56 | 28°14 | 1° 5 | 11°54 | 0♉29 | 18° 8 | 16°32 | 4°52 | 1°11 | 9°57 | 11° 7 | 9°50 | 16°44 | n.a. | W17 |
| T 18 | 17 32 9 | 22°30'06 | 12♓ 7 | 2° 7 | 13° 3 | 1°10 | 18° 7 | 16°39 | 4°52 | 1°12 | 9°58 | 11° 5 | 9°47 | 16°51 | n.a. | T 18 |
| F 19 | 17 36 6 | 23°27'17 | 26°10 | 3°13 | 14°11 | 1°51 | 18° 5 | 16°46 | 4°52 | 1°14 | 9°59 | 11°D 4 | 9°44 | 16°58 | n.a. | F 19 |
| S 20 | 17 40 3 | 24°24'29 | 10♈22 | 4°25 | 15°20 | 2°32 | 18° 4 | 16°53 | 4°51 | 1°15 | 10° 0 | 11° 5 | 9°41 | 17° 4 | n.a. | S 20 |
| S 21 | 17 43 59 | 25°21'42 | 24°39 | 5°40 | 16°29 | 3°14 | 18° 2 | 16°59 | 4°51 | 1°17 | 10° 1 | 11° 6 | 9°38 | 17°11 | n.a. | S 21 |
| M22 | 17 47 56 | 26°18'56 | 9♉ 1 | 7° 1 | 17°38 | 3°55 | 18° 0 | 17° 6 | 4°51 | 1°18 | 10° 2 | 11°R 7 | 9°35 | 17°18 | n.a. | M22 |
| T 23 | 17 51 52 | 27°16'11 | 23°24 | 8°26 | 18°47 | 4°35 | 17°57 | 17°13 | 4°50 | 1°20 | 10° 3 | 11° 6 | 9°31 | 17°24 | n.a. | T 23 |
| W24 | 17 55 49 | 28°13'27 | 7♊44 | 9°55 | 19°57 | 5°16 | 17°55 | 17°20 | 4°50 | 1°21 | 10° 4 | 11° 4 | 9°28 | 17°31 | n.a. | W24 |
| T 25 | 17 59 45 | 29°10'44 | 21°56 | 11°28 | 21° 6 | 5°57 | 17°52 | 17°26 | 4°49 | 1°22 | 10° 5 | 10°59 | 9°25 | 17°38 | n.a. | T 25 |
| F 26 | 18 3 42 | 0♋ 8'01 | 5♋55 | 13° 6 | 22°15 | 6°38 | 17°49 | 17°33 | 4°48 | 1°24 | 10° 6 | 10°52 | 9°22 | 17°44 | n.a. | F 26 |
| S 27 | 18 7 38 | 1° 5'20 | 19°37 | 14°47 | 23°25 | 7°18 | 17°46 | 17°39 | 4°48 | 1°25 | 10° 7 | 10°44 | 9°19 | 17°51 | n.a. | S 27 |
| S 28 | 18 11 35 | 2° 2'39 | 2♌59 | 16°32 | 24°35 | 7°59 | 17°43 | 17°46 | 4°47 | 1°26 | 10° 8 | 10°36 | 9°15 | 17°58 | n.a. | S 28 |
| M29 | 18 15 32 | 2°59'58 | 16° 0 | 18°20 | 25°44 | 8°39 | 17°39 | 17°52 | 4°46 | 1°28 | 10° 9 | 10°28 | 9°12 | 18° 4 | n.a. | M29 |
| T 30 | 18 19 28 | 3♋57'18 | 28♌41 | 20♊11 | 26♉54 | 9♉19 | 17♒36 | 17♉58 | 4♓46 | 1♉29 | 10♉10 | 10♏21 | 9♏ 9 | 18♎11 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 21n36 | 13n25 | 5s14 | 15n16 | 4s19 | 7n 8 | 2s24 | 6n43 | 1s 0 | 16s40 | 1s 9 | 14n37 | 1s51 | 10s34 | 0s46 | 10n 5 | 1s53 | 3n42 | 11s46 | 15s29 | 15s12 | 8s 1 | | n.a. |
| T 2 | 21 46 | 9 52 | 5 11 | 15 10 | 4 21 | 7 33 | 2 24 | 6 59 | 0 59 | 16 40 | 1 9 | 14 40 | 1 51 | 10 34 | 0 47 | 10 6 | 1 53 | 3 42 | 11 46 | 15 29 | 15 11 | 8 3 | | n.a. |
| W 3 | 21 55 | 5 58 | 4 53 | 15 7 | 4 22 | 7 58 | 2 23 | 7 16 | 0 59 | 16 40 | 1 9 | 14 42 | 1 51 | 10 34 | 0 47 | 10 7 | 1 53 | 3 42 | 11 46 | 15 28 | 15 10 | 8 5 | | n.a. |
| T 4 | 22 4 | 1 54 | 4 23 | 15 5 | 4 21 | 8 22 | 2 23 | 7 32 | 0 58 | 16 40 | 1 10 | 14 44 | 1 51 | 10 34 | 0 47 | 10 7 | 1 53 | 3 43 | 11 46 | 15 28 | 15 9 | 8 7 | | n.a. |
| F 5 | 22 13 | 2s11 | 3 41 | 15 6 | 4 19 | 8 47 | 2 23 | 7 49 | 0 58 | 16 40 | 1 10 | 14 46 | 1 51 | 10 34 | 0 47 | 10 8 | 1 53 | 3 43 | 11 46 | 15 29 | 15 8 | 8 9 | | n.a. |
| S 6 | 22 21 | 6 10 | 2 50 | 15 10 | 4 16 | 9 11 | 2 22 | 8 5 | 0 57 | 16 40 | 1 10 | 14 48 | 1 51 | 10 33 | 0 47 | 10 9 | 1 53 | 3 43 | 11 46 | 15 29 | 15 7 | 8 10 | | n.a. |
| S 7 | 22 29 | 9 54 | 1 53 | 15 15 | 4 12 | 9 35 | 2 22 | 8 21 | 0 57 | 16 40 | 1 11 | 14 50 | 1 51 | 10 33 | 0 47 | 10 9 | 1 53 | 3 43 | 11 46 | 15 30 | 15 6 | 8 12 | | n.a. |
| M 8 | 22 36 | 13 17 | 0 50 | 15 23 | 4 6 | 10 0 | 2 21 | 8 37 | 0 56 | 16 40 | 1 11 | 14 52 | 1 52 | 10 33 | 0 47 | 10 10 | 1 53 | 3 44 | 11 46 | 15 30 | 15 5 | 8 14 | | n.a. |
| T 9 | 22 43 | 16 8 | 0n16 | 15 34 | 3 59 | 10 24 | 2 20 | 8 53 | 0 56 | 16 40 | 1 11 | 14 55 | 1 52 | 10 33 | 0 47 | 10 10 | 1 53 | 3 44 | 11 46 | 15 30 | 15 4 | 8 16 | | n.a. |
| W10 | 22 50 | 18 19 | 1 21 | 15 46 | 3 52 | 10 48 | 2 19 | 9 9 | 0 55 | 16 40 | 1 11 | 14 57 | 1 52 | 10 33 | 0 47 | 10 11 | 1 53 | 3 44 | 11 46 | 15 30 | 15 3 | 8 18 | | n.a. |
| T 11 | 22 56 | 19 41 | 2 24 | 16 0 | 3 44 | 11 11 | 2 18 | 9 25 | 0 55 | 16 41 | 1 12 | 14 59 | 1 52 | 10 33 | 0 47 | 10 11 | 1 53 | 3 44 | 11 47 | 15 29 | 15 2 | 8 20 | | n.a. |
| F 12 | 23 2 | 20 6 | 3 21 | 16 16 | 3 34 | 11 35 | 2 17 | 9 41 | 0 54 | 16 41 | 1 12 | 15 1 | 1 52 | 10 33 | 0 47 | 10 12 | 1 53 | 3 45 | 11 47 | 15 28 | 15 1 | 8 22 | | n.a. |
| S 13 | 23 8 | 19 29 | 4 9 | 16 34 | 3 24 | 11 58 | 2 16 | 9 56 | 0 54 | 16 41 | 1 12 | 15 3 | 1 52 | 10 33 | 0 47 | 10 13 | 1 53 | 3 45 | 11 47 | 15 26 | 15 0 | 8 23 | | n.a. |
| S 14 | 23 13 | 17 49 | 4 45 | 16 54 | 3 14 | 12 22 | 2 15 | 10 12 | 0 53 | 16 42 | 1 13 | 15 5 | 1 52 | 10 33 | 0 47 | 10 13 | 1 53 | 3 45 | 11 47 | 15 24 | 14 59 | 8 25 | | n.a. |
| M15 | 23 18 | 15 12 | 5 5 | 17 15 | 3 3 | 12 45 | 2 13 | 10 27 | 0 53 | 16 42 | 1 13 | 15 7 | 1 52 | 10 33 | 0 47 | 10 14 | 1 53 | 3 45 | 11 47 | 15 22 | 14 57 | 8 27 | | n.a. |
| T 16 | 23 22 | 11 43 | 5 10 | 17 37 | 2 51 | 13 8 | 2 12 | 10 42 | 0 52 | 16 43 | 1 13 | 15 9 | 1 52 | 10 33 | 0 47 | 10 14 | 1 53 | 3 46 | 11 47 | 15 21 | 14 56 | 8 29 | | n.a. |
| W17 | 23 26 | 7 35 | 4 57 | 18 1 | 2 39 | 13 30 | 2 11 | 10 58 | 0 52 | 16 44 | 1 14 | 15 11 | 1 52 | 10 34 | 0 47 | 10 15 | 1 53 | 3 46 | 11 47 | 15 20 | 14 55 | 8 31 | | n.a. |
| T 18 | 23 29 | 2 59 | 4 26 | 18 26 | 2 26 | 13 53 | 2 9 | 11 13 | 0 51 | 16 44 | 1 14 | 15 13 | 1 52 | 10 34 | 0 47 | 10 15 | 1 53 | 3 46 | 11 47 | 15 19 | 14 54 | 8 33 | | n.a. |
| F 19 | 23 32 | 1n49 | 3 39 | 18 51 | 2 13 | 14 15 | 2 7 | 11 28 | 0 51 | 16 45 | 1 14 | 15 15 | 1 52 | 10 34 | 0 47 | 10 16 | 1 53 | 3 46 | 11 48 | 15 19 | 14 53 | 8 34 | | n.a. |
| S 20 | 23 35 | 6 35 | 2 39 | 19 17 | 2 0 | 14 37 | 2 6 | 11 42 | 0 50 | 16 46 | 1 15 | 15 16 | 1 52 | 10 34 | 0 47 | 10 16 | 1 53 | 3 46 | 11 48 | 15 19 | 14 52 | 8 36 | | n.a. |
| S 21 | 23 37 | 11 1 | 1 28 | 19 44 | 1 47 | 14 58 | 2 4 | 11 57 | 0 49 | 16 47 | 1 15 | 15 18 | 1 52 | 10 34 | 0 47 | 10 17 | 1 53 | 3 47 | 11 48 | 15 19 | 14 51 | 8 38 | | n.a. |
| M22 | 23 39 | 14 50 | 0 11 | 20 11 | 1 33 | 15 20 | 2 2 | 12 12 | 0 49 | 16 48 | 1 15 | 15 20 | 1 52 | 10 34 | 0 47 | 10 17 | 1 53 | 3 47 | 11 48 | 15 20 | 14 50 | 8 40 | | n.a. |
| T 23 | 23 41 | 17 46 | 1s 6 | 20 38 | 1 20 | 15 41 | 2 0 | 12 26 | 0 48 | 16 49 | 1 16 | 15 22 | 1 52 | 10 35 | 0 47 | 10 18 | 1 53 | 3 47 | 11 48 | 15 20 | 14 49 | 8 42 | | n.a. |
| W24 | 23 42 | 19 33 | 2 19 | 21 5 | 1 6 | 16 2 | 1 58 | 12 41 | 0 48 | 16 50 | 1 16 | 15 24 | 1 52 | 10 35 | 0 47 | 10 18 | 1 53 | 3 47 | 11 48 | 15 19 | 14 48 | 8 44 | | n.a. |
| T 25 | 23 42 | 20 6 | 3 22 | 21 32 | 0 53 | 16 22 | 1 56 | 12 55 | 0 47 | 16 51 | 1 16 | 15 26 | 1 52 | 10 35 | 0 47 | 10 18 | 1 54 | 3 47 | 11 48 | 15 17 | 14 47 | 8 45 | | n.a. |
| F 26 | 23 42 | 19 22 | 4 12 | 21 58 | 0 40 | 16 42 | 1 54 | 13 9 | 0 46 | 16 52 | 1 16 | 15 27 | 1 52 | 10 35 | 0 47 | 10 19 | 1 54 | 3 47 | 11 49 | 15 15 | 14 46 | 8 47 | | n.a. |
| S 27 | 23 42 | 17 32 | 4 47 | 22 23 | 0 27 | 17 2 | 1 52 | 13 23 | 0 46 | 16 54 | 1 17 | 15 29 | 1 52 | 10 36 | 0 47 | 10 19 | 1 54 | 3 47 | 11 49 | 15 13 | 14 45 | 8 49 | | n.a. |
| S 28 | 23 41 | 14 46 | 5 4 | 22 47 | 0 14 | 17 21 | 1 49 | 13 37 | 0 45 | 16 55 | 1 17 | 15 31 | 1 53 | 10 36 | 0 48 | 10 20 | 1 54 | 3 48 | 11 49 | 15 10 | 14 44 | 8 51 | | n.a. |
| M29 | 23 40 | 11 21 | 5 5 | 23 9 | 0 2 | 17 40 | 1 47 | 13 50 | 0 45 | 16 56 | 1 17 | 15 33 | 1 53 | 10 36 | 0 48 | 10 20 | 1 54 | 3 48 | 11 49 | 15 7 | 14 43 | 8 53 | | n.a. |
| T 30 | 23n39 | 7n31 | 4s51 | 23n30 | 0n10 | 17n59 | 1s45 | 14n 4 | 0s44 | 16s58 | 1s18 | 15n34 | 1s53 | 10s36 | 0s48 | 10n21 | 1s54 | 3n48 | 11s49 | 15s 5 | 14s42 | 8s55 | | n.a. |

Julian Day Number = 1688336.5, Delta T = 03h11m49s
Ecliptic obliquity = 23°42'14, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°18'56, Lahiri = - 5°11'56 Julian Calendar 1 June 91 BCE == Greg. Calendar 30 May 091 BCE


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# ASTRODIENST EPHEMERIS for the year 91 BCE
# geocentric

## JULY 91 BCE (-90) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 18 23 25 | 4♋54'39 | 11♍ 2 | 22♊ 6 | 28♉ 4 | 10♉ 0 | 17°R32 | 18♉ 4 | 4°R45 | 1♉30 | 10♉11 | 10°R16 | 9♏ 6 | 18♎18 | n.a. | W 1 |
| T 2 | 18 27 21 | 5°52'01 | 23° 8 | 24° 2 | 29°14 | 10°40 | 17♒28 | 18°11 | 4♓44 | 1°31 | 10°12 | 10♏13 | 9° 3 | 18°24 | n.a. | T 2 |
| F 3 | 18 31 18 | 6°49'23 | 5♎ 4 | 26° 1 | 0♊24 | 11°20 | 17°24 | 18°17 | 4°43 | 1°33 | 10°12 | 10°D12 | 9° 0 | 18°31 | n.a. | F 3 |
| S 4 | 18 35 14 | 7°46'46 | 16°54 | 28° 1 | 1°34 | 12° 0 | 17°19 | 18°23 | 4°42 | 1°34 | 10°13 | 10°13 | 8°56 | 18°38 | n.a. | S 4 |
| S 5 | 18 39 11 | 8°44'10 | 28°43 | 0♋ 3 | 2°44 | 12°40 | 17°15 | 18°29 | 4°41 | 1°35 | 10°14 | 10°14 | 8°53 | 18°44 | n.a. | S 5 |
| M 6 | 18 43 7 | 9°41'35 | 10♏38 | 2° 6 | 3°55 | 13°19 | 17°10 | 18°35 | 4°40 | 1°36 | 10°15 | 10°R14 | 8°50 | 18°51 | n.a. | M 6 |
| T 7 | 18 47 4 | 10°39'01 | 22°42 | 4°10 | 5° 5 | 13°59 | 17° 5 | 18°41 | 4°39 | 1°37 | 10°16 | 10°13 | 8°47 | 18°58 | n.a. | T 7 |
| W 8 | 18 51 1 | 11°36'27 | 5♐ 0 | 6°14 | 6°15 | 14°38 | 17° 0 | 18°47 | 4°38 | 1°38 | 10°16 | 10°10 | 8°44 | 19° 4 | n.a. | W 8 |
| T 9 | 18 54 57 | 12°33'55 | 17°34 | 8°19 | 7°26 | 15°18 | 16°55 | 18°52 | 4°37 | 1°39 | 10°17 | 10° 5 | 8°40 | 19°11 | n.a. | T 9 |
| F 10 | 18 58 54 | 13°31'24 | 0♑28 | 10°23 | 8°37 | 15°57 | 16°50 | 18°58 | 4°35 | 1°40 | 10°18 | 9°58 | 8°37 | 19°17 | n.a. | F 10 |
| S 11 | 19 2 50 | 14°28'53 | 13°40 | 12°27 | 9°47 | 16°37 | 16°45 | 19° 4 | 4°34 | 1°41 | 10°18 | 9°48 | 8°34 | 19°24 | n.a. | S 11 |
| S 12 | 19 6 47 | 15°26'25 | 27° 9 | 14°30 | 10°58 | 17°16 | 16°39 | 19° 9 | 4°33 | 1°42 | 10°19 | 9°38 | 8°31 | 19°31 | n.a. | S 12 |
| M13 | 19 10 43 | 16°23'57 | 10♒54 | 16°33 | 12° 9 | 17°55 | 16°33 | 19°15 | 4°31 | 1°43 | 10°20 | 9°27 | 8°28 | 19°37 | n.a. | M13 |
| T 14 | 19 14 40 | 17°21'31 | 24°49 | 18°35 | 13°20 | 18°34 | 16°27 | 19°20 | 4°30 | 1°43 | 10°20 | 9°18 | 8°25 | 19°44 | n.a. | T 14 |
| W15 | 19 18 36 | 18°19'06 | 8♓53 | 20°36 | 14°31 | 19°13 | 16°21 | 19°25 | 4°29 | 1°44 | 10°21 | 9°10 | 8°21 | 19°51 | n.a. | W15 |
| T 16 | 19 22 33 | 19°16'43 | 23° 1 | 22°35 | 15°42 | 19°52 | 16°15 | 19°31 | 4°27 | 1°45 | 10°22 | 9° 6 | 8°18 | 19°57 | n.a. | T 16 |
| F 17 | 19 26 30 | 20°14'21 | 7♈10 | 24°34 | 16°53 | 20°30 | 16° 9 | 19°36 | 4°26 | 1°46 | 10°22 | 9° 3 | 8°15 | 20° 4 | n.a. | F 17 |
| S 18 | 19 30 26 | 21°12'01 | 21°18 | 26°31 | 18° 5 | 21° 9 | 16° 2 | 19°41 | 4°24 | 1°47 | 10°23 | 9°D 3 | 8°12 | 20°11 | n.a. | S 18 |
| S 19 | 19 34 23 | 22° 9'43 | 5♉25 | 28°27 | 19°16 | 21°48 | 15°56 | 19°46 | 4°23 | 1°47 | 10°23 | 9°R 3 | 8° 9 | 20°17 | n.a. | S 19 |
| M20 | 19 38 19 | 23° 7'27 | 19°29 | 0♌21 | 20°28 | 22°26 | 15°49 | 19°51 | 4°21 | 1°48 | 10°24 | 9° 3 | 8° 6 | 20°24 | n.a. | M20 |
| T 21 | 19 42 16 | 24° 5'13 | 3♊29 | 2°15 | 21°39 | 23° 4 | 15°42 | 19°56 | 4°19 | 1°49 | 10°24 | 9° 1 | 8° 2 | 20°31 | n.a. | T 21 |
| W22 | 19 46 12 | 25° 3'00 | 17°24 | 4° 6 | 22°51 | 23°43 | 15°35 | 20° 1 | 4°18 | 1°49 | 10°25 | 8°56 | 7°59 | 20°37 | n.a. | W22 |
| T 23 | 19 50 9 | 26° 0'49 | 1♋11 | 5°57 | 24° 2 | 24°21 | 15°28 | 20° 5 | 4°16 | 1°50 | 10°25 | 8°49 | 7°56 | 20°44 | n.a. | T 23 |
| F 24 | 19 54 5 | 26°58'40 | 14°48 | 7°46 | 25°14 | 24°59 | 15°21 | 20°10 | 4°14 | 1°50 | 10°26 | 8°39 | 7°53 | 20°51 | n.a. | F 24 |
| S 25 | 19 58 2 | 27°56'32 | 28°11 | 9°34 | 26°26 | 25°37 | 15°14 | 20°14 | 4°12 | 1°51 | 10°26 | 8°27 | 7°50 | 20°57 | n.a. | S 25 |
| S 26 | 20 1 59 | 28°54'26 | 11♌19 | 11°20 | 27°38 | 26°14 | 15° 7 | 20°19 | 4°11 | 1°51 | 10°27 | 8°15 | 7°46 | 21° 4 | n.a. | S 26 |
| M27 | 20 5 55 | 29°52'21 | 24°10 | 13° 5 | 28°50 | 26°52 | 15° 0 | 20°23 | 4° 9 | 1°52 | 10°27 | 8° 2 | 7°43 | 21°11 | n.a. | M27 |
| T 28 | 20 9 52 | 0♌50'18 | 6♍43 | 14°49 | 0♋ 2 | 27°30 | 14°52 | 20°28 | 4° 7 | 1°52 | 10°27 | 7°52 | 7°40 | 21°17 | n.a. | T 28 |
| W29 | 20 13 48 | 1°48'17 | 19° 0 | 16°31 | 1°14 | 28° 7 | 14°45 | 20°32 | 4° 5 | 1°52 | 10°28 | 7°43 | 7°37 | 21°24 | n.a. | W29 |
| T 30 | 20 17 45 | 2°46'17 | 1♎ 4 | 18°12 | 2°26 | 28°45 | 14°37 | 20°36 | 4° 3 | 1°53 | 10°28 | 7°38 | 7°34 | 21°31 | n.a. | T 30 |
| F 31 | 20 21 41 | 3♌44'18 | 12♎58 | 19♌52 | 3♋38 | 29♉22 | 14♒29 | 20♉40 | 4♓ 1 | 1♉53 | 10♉28 | 7♏34 | 7♏31 | 21♎37 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | | ☊ | | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | | decl | | decl | | decl | lat |
| W 1 | 23n37 | 3n26 | 4s24 | 23n49 | 0n22 | 18n17 | 1s42 | 14n17 | 0s43 | 16s59 | 1s18 | 15n36 | 1s53 | 10s37 | 0s48 | 10n21 | 1s54 | 3n48 | 11s49 | 15s 4 | | 14s41 | | 8s56 | | | n.a. |
| T 2 | 23 34 | 0s41 | 3 45 | 24 6 | 0 32 | 18 35 | 1 40 | 14 31 | 0 43 | 17 1 | 1 18 | 15 38 | 1 53 | 10 37 | 0 48 | 10 21 | 1 54 | 3 48 | 11 50 | 15 3 | | 14 40 | | 8 58 | | | n.a. |
| F 3 | 23 32 | 4 44 | 2 57 | 24 21 | 0 43 | 18 52 | 1 38 | 14 44 | 0 42 | 17 2 | 1 19 | 15 39 | 1 53 | 10 38 | 0 48 | 10 22 | 1 54 | 3 48 | 11 50 | 15 2 | | 14 39 | | 9 0 | | | n.a. |
| S 4 | 23 28 | 8 35 | 2 2 | 24 33 | 0 52 | 19 9 | 1 35 | 14 57 | 0 41 | 17 4 | 1 19 | 15 41 | 1 53 | 10 38 | 0 48 | 10 22 | 1 54 | 3 48 | 11 50 | 15 3 | | 14 38 | | 9 2 | | | n.a. |
| S 5 | 23 25 | 12 6 | 1 1 | 24 43 | 1 1 | 19 26 | 1 32 | 15 10 | 0 41 | 17 5 | 1 19 | 15 42 | 1 53 | 10 38 | 0 48 | 10 22 | 1 54 | 3 48 | 11 50 | 15 3 | | 14 37 | | 9 4 | | | n.a. |
| M 6 | 23 21 | 15 9 | 0n 2 | 24 50 | 1 9 | 19 42 | 1 30 | 15 23 | 0 40 | 17 7 | 1 19 | 15 44 | 1 53 | 10 39 | 0 48 | 10 23 | 1 54 | 3 48 | 11 50 | 15 3 | | 14 36 | | 9 5 | | | n.a. |
| T 7 | 23 16 | 17 35 | 1 6 | 24 54 | 1 16 | 19 57 | 1 27 | 15 35 | 0 39 | 17 9 | 1 20 | 15 45 | 1 53 | 10 39 | 0 48 | 10 23 | 1 54 | 3 48 | 11 50 | 15 3 | | 14 35 | | 9 7 | | | n.a. |
| W 8 | 23 11 | 19 16 | 2 8 | 24 56 | 1 23 | 20 12 | 1 24 | 15 48 | 0 38 | 17 11 | 1 20 | 15 47 | 1 53 | 10 40 | 0 48 | 10 23 | 1 54 | 3 48 | 11 51 | 15 2 | | 14 34 | | 9 9 | | | n.a. |
| T 9 | 23 6 | 20 2 | 3 6 | 24 55 | 1 29 | 20 27 | 1 22 | 16 0 | 0 38 | 17 13 | 1 20 | 15 48 | 1 54 | 10 40 | 0 48 | 10 24 | 1 54 | 3 49 | 11 51 | 15 0 | | 14 33 | | 9 11 | | | n.a. |
| F 10 | 23 1 | 19 47 | 3 55 | 24 51 | 1 33 | 20 41 | 1 19 | 16 12 | 0 37 | 17 14 | 1 20 | 15 50 | 1 54 | 10 41 | 0 48 | 10 24 | 1 54 | 3 49 | 11 51 | 14 58 | | 14 32 | | 9 13 | | | n.a. |
| S 11 | 22 54 | 18 29 | 4 32 | 24 44 | 1 38 | 20 55 | 1 16 | 16 24 | 0 36 | 17 16 | 1 21 | 15 51 | 1 54 | 10 41 | 0 48 | 10 24 | 1 54 | 3 49 | 11 51 | 14 55 | | 14 31 | | 9 14 | | | n.a. |
| S 12 | 22 48 | 16 7 | 4 56 | 24 35 | 1 41 | 21 8 | 1 13 | 16 36 | 0 36 | 17 18 | 1 21 | 15 53 | 1 54 | 10 42 | 0 48 | 10 24 | 1 54 | 3 49 | 11 51 | 14 51 | | 14 30 | | 9 16 | | | n.a. |
| M13 | 22 41 | 12 50 | 5 3 | 24 23 | 1 44 | 21 20 | 1 10 | 16 48 | 0 35 | 17 20 | 1 21 | 15 54 | 1 54 | 10 42 | 0 48 | 10 25 | 1 55 | 3 49 | 11 52 | 14 48 | | 14 29 | | 9 18 | | | n.a. |
| T 14 | 22 34 | 8 48 | 4 52 | 24 9 | 1 46 | 21 32 | 1 8 | 17 0 | 0 34 | 17 22 | 1 22 | 15 56 | 1 54 | 10 43 | 0 48 | 10 25 | 1 55 | 3 49 | 11 52 | 14 45 | | 14 28 | | 9 20 | | | n.a. |
| W15 | 22 26 | 4 16 | 4 24 | 23 52 | 1 47 | 21 43 | 1 5 | 17 11 | 0 33 | 17 24 | 1 22 | 15 57 | 1 54 | 10 43 | 0 48 | 10 25 | 1 55 | 3 49 | 11 52 | 14 43 | | 14 27 | | 9 21 | | | n.a. |
| T 16 | 22 18 | 0n33 | 3 39 | 23 33 | 1 47 | 21 54 | 1 2 | 17 22 | 0 33 | 17 27 | 1 22 | 15 58 | 1 54 | 10 44 | 0 48 | 10 25 | 1 55 | 3 49 | 11 52 | 14 41 | | 14 26 | | 9 23 | | | n.a. |
| F 17 | 22 10 | 5 20 | 2 41 | 23 12 | 1 47 | 22 5 | 0 59 | 17 34 | 0 32 | 17 29 | 1 22 | 16 0 | 1 54 | 10 44 | 0 48 | 10 25 | 1 55 | 3 49 | 11 52 | 14 40 | | 14 25 | | 9 25 | | | n.a. |
| S 18 | 22 1 | 9 50 | 1 33 | 22 50 | 1 47 | 22 14 | 0 56 | 17 45 | 0 31 | 17 31 | 1 22 | 16 1 | 1 54 | 10 45 | 0 48 | 10 26 | 1 55 | 3 49 | 11 53 | 14 40 | | 14 24 | | 9 27 | | | n.a. |
| S 19 | 21 51 | 13 46 | 0 19 | 22 25 | 1 46 | 22 23 | 0 53 | 17 56 | 0 30 | 17 33 | 1 23 | 16 2 | 1 55 | 10 46 | 0 48 | 10 26 | 1 55 | 3 49 | 11 53 | 14 40 | | 14 23 | | 9 29 | | | n.a. |
| M20 | 21 42 | 16 55 | 0s55 | 21 59 | 1 44 | 22 32 | 0 50 | 18 6 | 0 30 | 17 35 | 1 23 | 16 3 | 1 55 | 10 46 | 0 48 | 10 26 | 1 55 | 3 49 | 11 53 | 14 40 | | 14 22 | | 9 30 | | | n.a. |
| T 21 | 21 32 | 19 2 | 2 6 | 21 31 | 1 41 | 22 40 | 0 47 | 18 17 | 0 29 | 17 38 | 1 23 | 16 4 | 1 55 | 10 47 | 0 48 | 10 26 | 1 55 | 3 48 | 11 53 | 14 39 | | 14 21 | | 9 32 | | | n.a. |
| W22 | 21 21 | 19 58 | 3 8 | 21 2 | 1 39 | 22 47 | 0 44 | 18 27 | 0 28 | 17 40 | 1 23 | 16 6 | 1 55 | 10 47 | 0 48 | 10 26 | 1 55 | 3 48 | 11 53 | 14 38 | | 14 20 | | 9 34 | | | n.a. |
| T 23 | 21 11 | 19 43 | 3 59 | 20 32 | 1 35 | 22 53 | 0 41 | 18 38 | 0 27 | 17 42 | 1 24 | 16 7 | 1 55 | 10 48 | 0 48 | 10 26 | 1 55 | 3 48 | 11 54 | 14 36 | | 14 18 | | 9 36 | | | n.a. |
| F 24 | 21 0 | 18 18 | 4 36 | 20 0 | 1 32 | 22 59 | 0 38 | 18 48 | 0 26 | 17 44 | 1 24 | 16 8 | 1 55 | 10 49 | 0 48 | 10 27 | 1 55 | 3 48 | 11 54 | 14 32 | | 14 17 | | 9 37 | | | n.a. |
| S 25 | 20 48 | 15 55 | 4 56 | 19 28 | 1 28 | 23 5 | 0 35 | 18 58 | 0 26 | 17 47 | 1 24 | 16 9 | 1 55 | 10 49 | 0 48 | 10 27 | 1 55 | 3 48 | 11 54 | 14 29 | | 14 16 | | 9 39 | | | n.a. |
| S 26 | 20 36 | 12 46 | 5 0 | 18 54 | 1 23 | 23 9 | 0 32 | 19 7 | 0 25 | 17 49 | 1 24 | 16 10 | 1 55 | 10 50 | 0 48 | 10 27 | 1 55 | 3 48 | 11 54 | 14 25 | | 14 15 | | 9 41 | | | n.a. |
| M27 | 20 24 | 9 4 | 4 49 | 18 19 | 1 18 | 23 13 | 0 29 | 19 17 | 0 24 | 17 52 | 1 24 | 16 11 | 1 56 | 10 51 | 0 48 | 10 27 | 1 55 | 3 48 | 11 54 | 14 21 | | 14 14 | | 9 43 | | | n.a. |
| T 28 | 20 12 | 5 3 | 4 24 | 17 44 | 1 13 | 23 17 | 0 26 | 19 27 | 0 23 | 17 54 | 1 24 | 16 12 | 1 56 | 10 52 | 0 48 | 10 27 | 1 55 | 3 48 | 11 55 | 14 17 | | 14 13 | | 9 44 | | | n.a. |
| W29 | 19 59 | 0 55 | 3 47 | 17 8 | 1 7 | 23 19 | 0 23 | 19 36 | 0 22 | 17 56 | 1 25 | 16 13 | 1 56 | 10 52 | 0 48 | 10 27 | 1 56 | 3 48 | 11 55 | 14 14 | | 14 12 | | 9 46 | | | n.a. |
| T 30 | 19 45 | 3s11 | 3 0 | 16 31 | 1 2 | 23 21 | 0 20 | 19 45 | 0 21 | 17 59 | 1 25 | 16 14 | 1 56 | 10 53 | 0 48 | 10 27 | 1 56 | 3 48 | 11 55 | 14 12 | | 14 11 | | 9 48 | | | n.a. |
| F 31 | 19n32 | 7s 7 | 2s 6 | 15n54 | 0n56 | 23n23 | 0s17 | 19n54 | 0s21 | 18s 1 | 1s25 | 16n15 | 1s56 | 10s54 | 0s49 | 10n27 | 1s56 | 3n48 | 11s55 | 14s11 | | 14s10 | | 9s50 | | | n.a. |

Julian Day Number = 1688366.5, Delta T = 03h11m48s
Ecliptic obliquity = 23°42'14, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°18'52, Lahiri = - 5°11'52 Julian Calendar 1 July 91 BCE == Greg. Calendar 29 June 091 BCE

The year -90 astronomical counting style corresponds to year 091 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 91 BCE
# geocentric

## AUGUST 91 BCE (-90) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 25 38 | 4♌42'21 | 24♎47 | 21♌30 | 4♋51 | 29♉59 | 14°R22 | 20♉44 | 3°R59 | 1♉53 | 10♉29 | 7°R33 | 7♏27 | 21♎44 | n.a. | S 1 |
| S 2 | 20 29 34 | 5°40'25 | 6♏36 | 23° 8 | 6° 3 | 0♊36 | 14♒14 | 20°48 | 3♓57 | 1°54 | 10°29 | 7♏33 | 7°24 | 21°50 | n.a. | S 2 |
| M 3 | 20 33 31 | 6°38'31 | 18°30 | 24°44 | 7°16 | 1°13 | 14° 6 | 20°51 | 3°55 | 1°54 | 10°29 | 7°33 | 7°21 | 21°57 | n.a. | M 3 |
| T 4 | 20 37 28 | 7°36'39 | 0♐35 | 26°18 | 8°28 | 1°49 | 13°58 | 20°55 | 3°53 | 1°54 | 10°29 | 7°31 | 7°18 | 22° 4 | n.a. | T 4 |
| W 5 | 20 41 24 | 8°34'48 | 12°56 | 27°52 | 9°41 | 2°26 | 13°50 | 20°59 | 3°51 | 1°54 | 10°30 | 7°28 | 7°15 | 22°10 | n.a. | W 5 |
| T 6 | 20 45 21 | 9°32'59 | 25°38 | 29°24 | 10°53 | 3° 3 | 13°42 | 21° 2 | 3°49 | 1°54 | 10°30 | 7°22 | 7°12 | 22°17 | n.a. | T 6 |
| F 7 | 20 49 17 | 10°31'11 | 8♑42 | 0♍55 | 12° 6 | 3°39 | 13°34 | 21° 5 | 3°47 | 1°54 | 10°30 | 7°14 | 7° 8 | 22°24 | n.a. | F 7 |
| S 8 | 20 53 14 | 11°29'25 | 22° 9 | 2°24 | 13°19 | 4°15 | 13°27 | 21° 9 | 3°44 | 1°R54 | 10°30 | 7° 4 | 7° 5 | 22°30 | n.a. | S 8 |
| S 9 | 20 57 10 | 12°27'41 | 6♒ 0 | 3°53 | 14°32 | 4°51 | 13°19 | 21°12 | 3°42 | 1°54 | 10°30 | 6°52 | 7° 2 | 22°37 | n.a. | S 9 |
| M10 | 21 1 7 | 13°25'59 | 20° 8 | 5°20 | 15°44 | 5°27 | 13°11 | 21°15 | 3°40 | 1°54 | 10°30 | 6°40 | 6°59 | 22°44 | n.a. | M10 |
| T 11 | 21 5 3 | 14°24'18 | 4♓31 | 6°46 | 16°57 | 6° 3 | 13° 3 | 21°18 | 3°38 | 1°54 | 10°30 | 6°29 | 6°56 | 22°50 | n.a. | T 11 |
| W12 | 21 9 0 | 15°22'40 | 19° 0 | 8°10 | 18°10 | 6°39 | 12°55 | 21°21 | 3°35 | 1°54 | 10°30 | 6°21 | 6°52 | 22°57 | n.a. | W12 |
| T 13 | 21 12 57 | 16°21'03 | 3♈30 | 9°34 | 19°23 | 7°15 | 12°47 | 21°24 | 3°33 | 1°54 | 10°30 | 6°15 | 6°49 | 23° 4 | n.a. | T 13 |
| F 14 | 21 16 53 | 17°19'29 | 17°56 | 10°55 | 20°37 | 7°50 | 12°39 | 21°26 | 3°31 | 1°54 | 10°R30 | 6°12 | 6°46 | 23°10 | n.a. | F 14 |
| S 15 | 21 20 50 | 18°17'57 | 2♉13 | 12°16 | 21°50 | 8°25 | 12°31 | 21°29 | 3°29 | 1°53 | 10°30 | 6°D11 | 6°43 | 23°17 | n.a. | S 15 |
| S 16 | 21 24 46 | 19°16'28 | 16°21 | 13°35 | 23° 3 | 9° 1 | 12°23 | 21°31 | 3°26 | 1°53 | 10°30 | 6°R11 | 6°40 | 23°24 | n.a. | S 16 |
| M17 | 21 28 43 | 20°15'01 | 0♊18 | 14°53 | 24°16 | 9°36 | 12°15 | 21°34 | 3°24 | 1°53 | 10°30 | 6°11 | 6°37 | 23°30 | n.a. | M17 |
| T 18 | 21 32 39 | 21°13'36 | 14° 4 | 16° 9 | 25°30 | 10°11 | 12° 8 | 21°36 | 3°22 | 1°53 | 10°30 | 6° 9 | 6°33 | 23°37 | n.a. | T 18 |
| W19 | 21 36 36 | 22°12'14 | 27°39 | 17°23 | 26°43 | 10°45 | 12° 0 | 21°38 | 3°19 | 1°52 | 10°30 | 6° 5 | 6°30 | 23°44 | n.a. | W19 |
| T 20 | 21 40 32 | 23°10'53 | 11♋ 3 | 18°36 | 27°57 | 11°20 | 11°52 | 21°40 | 3°17 | 1°52 | 10°30 | 5°58 | 6°27 | 23°50 | n.a. | T 20 |
| F 21 | 21 44 29 | 24° 9'35 | 24°16 | 19°47 | 29°10 | 11°55 | 11°45 | 21°42 | 3°15 | 1°52 | 10°30 | 5°48 | 6°24 | 23°57 | n.a. | F 21 |
| S 22 | 21 48 26 | 25° 8'20 | 7♌17 | 20°56 | 0♌24 | 12°29 | 11°37 | 21°44 | 3°12 | 1°51 | 10°30 | 5°37 | 6°21 | 24° 3 | n.a. | S 22 |
| S 23 | 21 52 22 | 26° 7'06 | 20° 6 | 22° 3 | 1°38 | 13° 3 | 11°30 | 21°46 | 3°10 | 1°51 | 10°29 | 5°25 | 6°18 | 24°10 | n.a. | S 23 |
| M24 | 21 56 19 | 27° 5'54 | 2♍41 | 23° 8 | 2°52 | 13°37 | 11°22 | 21°47 | 3° 7 | 1°50 | 10°29 | 5°13 | 6°14 | 24°17 | n.a. | M24 |
| T 25 | 22 0 15 | 28° 4'45 | 15° 3 | 24°11 | 4° 5 | 14°11 | 11°15 | 21°49 | 3° 5 | 1°50 | 10°29 | 5° 2 | 6°11 | 24°23 | n.a. | T 25 |
| W26 | 22 4 12 | 29° 3'37 | 27°12 | 25°12 | 5°19 | 14°45 | 11° 8 | 21°50 | 3° 3 | 1°49 | 10°29 | 4°54 | 6° 8 | 24°30 | n.a. | W26 |
| T 27 | 22 8 8 | 0♍ 2'31 | 9♎11 | 26° 9 | 6°33 | 15°18 | 11° 0 | 21°52 | 3° 0 | 1°49 | 10°29 | 4°48 | 6° 5 | 24°37 | n.a. | T 27 |
| F 28 | 22 12 5 | 1° 1'28 | 21° 2 | 27° 4 | 7°47 | 15°52 | 10°53 | 21°53 | 2°58 | 1°48 | 10°28 | 4°45 | 6° 2 | 24°43 | n.a. | F 28 |
| S 29 | 22 16 1 | 2° 0'26 | 2♏48 | 27°56 | 9° 1 | 16°25 | 10°46 | 21°54 | 2°55 | 1°47 | 10°28 | 4°D44 | 5°58 | 24°50 | n.a. | S 29 |
| S 30 | 22 19 58 | 2°59'26 | 14°36 | 28°45 | 10°15 | 16°58 | 10°40 | 21°55 | 2°53 | 1°47 | 10°28 | 4°44 | 5°55 | 24°57 | n.a. | S 30 |
| M31 | 22 23 54 | 3♍58'28 | 26♏28 | 29♍30 | 11♌29 | 17♊31 | 10♒33 | 21♉56 | 2♓50 | 1♉46 | 10♉27 | 4♏45 | 5♏52 | 25♎ 3 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 19n18 | 10s44 | 1s 7 | 15n16 | 0n49 | 23n23 | 0s14 | 20n 3 | 0s20 | 18s 4 | 1s25 | 16n16 | 1s56 | 10s55 | 0s49 | 10n27 | 1s56 | 3n48 | 11s55 | 14s11 | 14s 9 | 9s51 | | n.a. |
| S 2 | 19 4 | 13 57 | 0 5 | 14 38 | 0 43 | 23 23 | 0 11 | 20 12 | 0 19 | 18 6 | 1 25 | 16 17 | 1 56 | 10 55 | 0 49 | 10 27 | 1 56 | 3 47 | 11 56 | 14 11 | 14 8 | 9 53 | | n.a. |
| M 3 | 18 49 | 16 36 | 0n58 | 13 59 | 0 36 | 23 22 | 0 8 | 20 20 | 0 18 | 18 8 | 1 25 | 16 18 | 1 57 | 10 56 | 0 49 | 10 27 | 1 56 | 3 47 | 11 56 | 14 11 | 14 7 | 9 55 | | n.a. |
| T 4 | 18 34 | 18 34 | 1 59 | 13 20 | 0 29 | 23 21 | 0 5 | 20 29 | 0 17 | 18 11 | 1 26 | 16 18 | 1 57 | 10 57 | 0 49 | 10 27 | 1 56 | 3 47 | 11 56 | 14 10 | 14 6 | 9 56 | | n.a. |
| W 5 | 18 19 | 19 42 | 2 56 | 12 41 | 0 22 | 23 19 | 0 2 | 20 37 | 0 16 | 18 13 | 1 26 | 16 19 | 1 57 | 10 58 | 0 49 | 10 27 | 1 56 | 3 47 | 11 56 | 14 9 | 14 5 | 9 58 | | n.a. |
| T 6 | 18 3 | 19 53 | 3 45 | 12 2 | 0 14 | 23 16 | 0n 1 | 20 45 | 0 15 | 18 16 | 1 26 | 16 20 | 1 57 | 10 58 | 0 49 | 10 27 | 1 56 | 3 47 | 11 57 | 14 7 | 14 4 | 10 0 | | n.a. |
| F 7 | 17 48 | 19 1 | 4 25 | 11 22 | 0 7 | 23 13 | 0 4 | 20 53 | 0 14 | 18 18 | 1 26 | 16 21 | 1 57 | 10 59 | 0 49 | 10 27 | 1 56 | 3 47 | 11 57 | 14 5 | 14 3 | 10 2 | | n.a. |
| S 8 | 17 32 | 17 4 | 4 51 | 10 43 | 0s 1 | 23 9 | 0 7 | 21 1 | 0 13 | 18 21 | 1 26 | 16 22 | 1 57 | 11 0 | 0 49 | 10 27 | 1 56 | 3 46 | 11 57 | 14 1 | 14 2 | 10 3 | | n.a. |
| S 9 | 17 15 | 14 7 | 5 1 | 10 3 | 0 9 | 23 4 | 0 10 | 21 8 | 0 12 | 18 23 | 1 26 | 16 22 | 1 57 | 11 1 | 0 49 | 10 27 | 1 56 | 3 46 | 11 57 | 13 57 | 14 1 | 10 5 | | n.a. |
| M10 | 16 58 | 10 18 | 4 53 | 9 24 | 0 17 | 22 58 | 0 13 | 21 16 | 0 12 | 18 25 | 1 26 | 16 23 | 1 58 | 11 2 | 0 49 | 10 27 | 1 56 | 3 46 | 11 57 | 13 53 | 14 0 | 10 7 | | n.a. |
| T 11 | 16 41 | 5 50 | 4 26 | 8 44 | 0 25 | 22 52 | 0 15 | 21 23 | 0 11 | 18 28 | 1 26 | 16 24 | 1 58 | 11 2 | 0 49 | 10 27 | 1 56 | 3 46 | 11 58 | 13 50 | 13 59 | 10 8 | | n.a. |
| W12 | 16 24 | 1 0 | 3 42 | 8 5 | 0 33 | 22 45 | 0 18 | 21 30 | 0 10 | 18 30 | 1 26 | 16 24 | 1 58 | 11 3 | 0 49 | 10 27 | 1 56 | 3 46 | 11 58 | 13 47 | 13 58 | 10 10 | | n.a. |
| T 13 | 16 7 | 3n54 | 2 44 | 7 26 | 0 41 | 22 38 | 0 21 | 21 37 | 0 9 | 18 33 | 1 26 | 16 25 | 1 58 | 11 4 | 0 49 | 10 27 | 1 56 | 3 46 | 11 58 | 13 45 | 13 57 | 10 12 | | n.a. |
| F 14 | 15 49 | 8 34 | 1 35 | 6 47 | 0 50 | 22 29 | 0 23 | 21 44 | 0 8 | 18 35 | 1 27 | 16 25 | 1 58 | 11 5 | 0 49 | 10 27 | 1 57 | 3 45 | 11 58 | 13 44 | 13 55 | 10 14 | | n.a. |
| S 15 | 15 31 | 12 42 | 0 21 | 6 9 | 0 58 | 22 20 | 0 26 | 21 51 | 0 7 | 18 37 | 1 27 | 16 26 | 1 58 | 11 6 | 0 49 | 10 26 | 1 57 | 3 45 | 11 59 | 13 44 | 13 54 | 10 15 | | n.a. |
| S 16 | 15 12 | 16 3 | 0s54 | 5 30 | 1 6 | 22 11 | 0 29 | 21 57 | 0 6 | 18 39 | 1 27 | 16 26 | 1 58 | 11 7 | 0 49 | 10 26 | 1 57 | 3 45 | 11 59 | 13 44 | 13 53 | 10 17 | | n.a. |
| M17 | 14 54 | 18 25 | 2 4 | 4 52 | 1 15 | 22 1 | 0 31 | 22 3 | 0 5 | 18 42 | 1 27 | 16 27 | 1 59 | 11 8 | 0 49 | 10 26 | 1 57 | 3 45 | 11 59 | 13 44 | 13 52 | 10 19 | | n.a. |
| T 18 | 14 35 | 19 39 | 3 7 | 4 15 | 1 23 | 21 50 | 0 34 | 22 10 | 0 4 | 18 44 | 1 27 | 16 27 | 1 59 | 11 8 | 0 49 | 10 26 | 1 57 | 3 44 | 11 59 | 13 43 | 13 51 | 10 20 | | n.a. |
| W19 | 14 16 | 19 44 | 3 57 | 3 38 | 1 32 | 21 38 | 0 36 | 22 16 | 0 3 | 18 46 | 1 27 | 16 28 | 1 59 | 11 9 | 0 49 | 10 26 | 1 57 | 3 44 | 11 59 | 13 42 | 13 50 | 10 22 | | n.a. |
| T 20 | 13 56 | 18 41 | 4 34 | 3 2 | 1 40 | 21 26 | 0 39 | 22 22 | 0 2 | 18 48 | 1 27 | 16 28 | 1 59 | 11 10 | 0 49 | 10 26 | 1 57 | 3 44 | 12 0 | 13 39 | 13 49 | 10 24 | | n.a. |
| F 21 | 13 37 | 16 38 | 4 56 | 2 26 | 1 48 | 21 13 | 0 41 | 22 27 | 0 1 | 18 51 | 1 27 | 16 28 | 1 59 | 11 11 | 0 49 | 10 25 | 1 57 | 3 44 | 12 0 | 13 36 | 13 48 | 10 25 | | n.a. |
| S 22 | 13 17 | 13 47 | 5 2 | 1 51 | 1 56 | 21 0 | 0 44 | 22 33 | 0n 0 | 18 53 | 1 27 | 16 29 | 1 59 | 11 12 | 0 49 | 10 25 | 1 57 | 3 43 | 12 0 | 13 32 | 13 47 | 10 27 | | n.a. |
| S 23 | 12 57 | 10 19 | 4 52 | 1 17 | 2 5 | 20 46 | 0 46 | 22 38 | 0 1 | 18 55 | 1 27 | 16 29 | 2 0 | 11 13 | 0 49 | 10 25 | 1 57 | 3 43 | 12 0 | 13 28 | 13 46 | 10 29 | | n.a. |
| M24 | 12 37 | 6 27 | 4 29 | 0 44 | 2 13 | 20 31 | 0 48 | 22 44 | 0 2 | 18 57 | 1 27 | 16 29 | 2 0 | 11 14 | 0 49 | 10 25 | 1 57 | 3 43 | 12 0 | 13 24 | 13 45 | 10 30 | | n.a. |
| T 25 | 12 16 | 2 23 | 3 53 | 0 11 | 2 21 | 20 16 | 0 50 | 22 49 | 0 4 | 18 59 | 1 27 | 16 30 | 2 0 | 11 15 | 0 49 | 10 25 | 1 57 | 3 43 | 12 1 | 13 21 | 13 44 | 10 32 | | n.a. |
| W26 | 11 56 | 1s43 | 3 6 | 0s20 | 2 28 | 20 0 | 0 52 | 22 54 | 0 5 | 19 1 | 1 27 | 16 30 | 2 0 | 11 15 | 0 49 | 10 24 | 1 57 | 3 42 | 12 1 | 13 18 | 13 43 | 10 34 | | n.a. |
| T 27 | 11 35 | 5 42 | 2 12 | 0 50 | 2 36 | 19 43 | 0 55 | 22 59 | 0 6 | 19 3 | 1 27 | 16 30 | 2 0 | 11 16 | 0 49 | 10 24 | 1 57 | 3 42 | 12 1 | 13 16 | 13 42 | 10 35 | | n.a. |
| F 28 | 11 14 | 9 25 | 1 13 | 1 19 | 2 43 | 19 26 | 0 57 | 23 3 | 0 7 | 19 5 | 1 27 | 16 30 | 2 0 | 11 17 | 0 49 | 10 24 | 1 57 | 3 42 | 12 1 | 13 15 | 13 41 | 10 37 | | n.a. |
| S 29 | 10 53 | 12 44 | 0 10 | 1 46 | 2 50 | 19 9 | 0 59 | 23 8 | 0 8 | 19 7 | 1 27 | 16 30 | 2 0 | 11 18 | 0 49 | 10 23 | 1 57 | 3 42 | 12 2 | 13 14 | 13 40 | 10 39 | | n.a. |
| S 30 | 10 31 | 15 33 | 0n53 | 2 12 | 2 57 | 18 50 | 1 1 | 23 12 | 0 9 | 19 9 | 1 27 | 16 30 | 2 1 | 11 19 | 0 49 | 10 23 | 1 57 | 3 41 | 12 2 | 13 14 | 13 39 | 10 40 | | n.a. |
| M31 | 10n10 | 17s44 | 1n54 | 2s36 | 3s 3 | 18n32 | 1n 3 | 23n17 | 0n10 | 19s11 | 1s27 | 16n30 | 2s 1 | 11s20 | 0s49 | 10n23 | 1s58 | 3n41 | 12s 2 | 13s15 | 13s37 | 10s42 | | n.a. |

Julian Day Number = 1688397.5, Delta T = 03h11m47s
Ecliptic obliquity = 23°42'14, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°18'48, Lahiri = - 5°11'47 Julian Calendar 1 Aug. 91 BCE == Greg. Calendar 30 July 091 BCE

The year -90 astronomical counting style corresponds to year 091 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 91 BCE
# geocentric

## SEPTEMBER 91 BCE (-90) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 22 27 51 | 4♍57'32 | 8♐32 | 0♎12 | 12♌43 | 18♊ 4 | 10°R26 | 21♉56 | 2°R48 | 1°R45 | 10°R27 | 4°R45 | 5♏49 | 25♎10 | n.a. | T 1 |
| W 2 | 22 31 48 | 5°56'38 | 20°51 | 0°49 | 13°57 | 18°36 | 10♒20 | 21°57 | 2♓46 | 1♉44 | 10♉26 | 4♏44 | 5°46 | 25°17 | n.a. | W 2 |
| T 3 | 22 35 44 | 6°55'46 | 3♑32 | 1°22 | 15°12 | 19° 8 | 10°14 | 21°58 | 2°43 | 1°44 | 10°26 | 4°40 | 5°43 | 25°23 | n.a. | T 3 |
| F 4 | 22 39 41 | 7°54'55 | 16°38 | 1°50 | 16°26 | 19°41 | 10° 7 | 21°58 | 2°41 | 1°43 | 10°26 | 4°35 | 5°39 | 25°30 | n.a. | F 4 |
| S 5 | 22 43 37 | 8°54'07 | 0♒11 | 2°12 | 17°40 | 20°12 | 10° 1 | 21°58 | 2°38 | 1°42 | 10°25 | 4°27 | 5°36 | 25°37 | n.a. | S 5 |
| S 6 | 22 47 34 | 9°53'20 | 14°11 | 2°28 | 18°55 | 20°44 | 9°55 | 21°59 | 2°36 | 1°41 | 10°25 | 4°19 | 5°33 | 25°43 | n.a. | S 6 |
| M 7 | 22 51 30 | 10°52'35 | 28°35 | 2°39 | 20° 9 | 21°16 | 9°50 | 21°R59 | 2°34 | 1°40 | 10°24 | 4°10 | 5°30 | 25°50 | n.a. | M 7 |
| T 8 | 22 55 27 | 11°51'53 | 13♓17 | 2°R42 | 21°24 | 21°47 | 9°44 | 21°59 | 2°31 | 1°39 | 10°24 | 4° 2 | 5°27 | 25°56 | n.a. | T 8 |
| W 9 | 22 59 23 | 12°51'12 | 28°10 | 2°39 | 22°38 | 22°18 | 9°39 | 21°58 | 2°29 | 1°38 | 10°23 | 3°56 | 5°23 | 26° 3 | n.a. | W 9 |
| T 10 | 23 3 20 | 13°50'34 | 13♈ 5 | 2°28 | 23°53 | 22°49 | 9°33 | 21°58 | 2°27 | 1°37 | 10°23 | 3°52 | 5°20 | 26°10 | n.a. | T 10 |
| F 11 | 23 7 16 | 14°49'58 | 27°53 | 2° 9 | 25° 7 | 23°20 | 9°28 | 21°58 | 2°24 | 1°36 | 10°22 | 3°D50 | 5°17 | 26°16 | n.a. | F 11 |
| S 12 | 23 11 13 | 15°49'24 | 12♉30 | 1°41 | 26°22 | 23°51 | 9°23 | 21°57 | 2°22 | 1°35 | 10°21 | 3°50 | 5°14 | 26°23 | n.a. | S 12 |
| S 13 | 23 15 10 | 16°48'53 | 26°50 | 1° 6 | 27°36 | 24°21 | 9°18 | 21°57 | 2°20 | 1°34 | 10°21 | 3°51 | 5°11 | 26°30 | n.a. | S 13 |
| M14 | 23 19 6 | 17°48'25 | 10♊53 | 0°22 | 28°51 | 24°51 | 9°14 | 21°56 | 2°17 | 1°33 | 10°20 | 3°52 | 5° 8 | 26°36 | n.a. | M14 |
| T 15 | 23 23 3 | 18°47'58 | 24°36 | 29♍30 | 0♍ 6 | 25°21 | 9° 9 | 21°55 | 2°15 | 1°32 | 10°20 | 3°R52 | 5° 4 | 26°43 | n.a. | T 15 |
| W16 | 23 26 59 | 19°47'35 | 8♋ 2 | 28°32 | 1°21 | 25°51 | 9° 5 | 21°54 | 2°13 | 1°31 | 10°19 | 3°51 | 5° 1 | 26°50 | n.a. | W16 |
| T 17 | 23 30 56 | 20°47'13 | 21°12 | 27°27 | 2°35 | 26°20 | 9° 1 | 21°53 | 2°10 | 1°29 | 10°18 | 3°47 | 4°58 | 26°56 | n.a. | T 17 |
| F 18 | 23 34 52 | 21°46'54 | 4♌ 6 | 26°17 | 3°50 | 26°50 | 8°57 | 21°52 | 2° 8 | 1°28 | 10°18 | 3°42 | 4°55 | 27° 3 | n.a. | F 18 |
| S 19 | 23 38 49 | 22°46'37 | 16°48 | 25° 4 | 5° 5 | 27°19 | 8°53 | 21°51 | 2° 6 | 1°27 | 10°17 | 3°35 | 4°52 | 27°10 | n.a. | S 19 |
| S 20 | 23 42 45 | 23°46'23 | 29°17 | 23°50 | 6°20 | 27°47 | 8°50 | 21°49 | 2° 4 | 1°26 | 10°16 | 3°27 | 4°49 | 27°16 | n.a. | S 20 |
| M21 | 23 46 42 | 24°46'10 | 11♍36 | 22°36 | 7°35 | 28°16 | 8°46 | 21°48 | 2° 2 | 1°24 | 10°15 | 3°20 | 4°45 | 27°23 | n.a. | M21 |
| T 22 | 23 50 39 | 25°46'00 | 23°45 | 21°26 | 8°50 | 28°44 | 8°43 | 21°46 | 1°59 | 1°23 | 10°15 | 3°14 | 4°42 | 27°30 | n.a. | T 22 |
| W23 | 23 54 35 | 26°45'51 | 5♎44 | 20°21 | 10° 5 | 29°12 | 8°40 | 21°45 | 1°57 | 1°22 | 10°14 | 3° 9 | 4°39 | 27°36 | n.a. | W23 |
| T 24 | 23 58 32 | 27°45'45 | 17°37 | 19°23 | 11°20 | 29°40 | 8°37 | 21°43 | 1°55 | 1°20 | 10°13 | 3° 6 | 4°36 | 27°43 | n.a. | T 24 |
| F 25 | 0 2 28 | 28°45'41 | 29°25 | 18°33 | 12°35 | 0♋ 7 | 8°35 | 21°41 | 1°53 | 1°19 | 10°12 | 3°D 4 | 4°33 | 27°49 | n.a. | F 25 |
| S 26 | 0 6 25 | 29°45'38 | 11♏11 | 17°54 | 13°50 | 0°34 | 8°32 | 21°39 | 1°51 | 1°18 | 10°11 | 3° 5 | 4°29 | 27°56 | n.a. | S 26 |
| S 27 | 0 10 21 | 0♎45'38 | 22°58 | 17°26 | 15° 5 | 1° 1 | 8°30 | 21°37 | 1°49 | 1°16 | 10°11 | 3° 6 | 4°26 | 28° 3 | n.a. | S 27 |
| M28 | 0 14 18 | 1°45'39 | 4♐50 | 17° 9 | 16°21 | 1°28 | 8°28 | 21°35 | 1°47 | 1°15 | 10°10 | 3° 8 | 4°23 | 28° 9 | n.a. | M28 |
| T 29 | 0 18 14 | 2°45'42 | 16°53 | 17°D 4 | 17°36 | 1°54 | 8°26 | 21°32 | 1°45 | 1°13 | 10° 9 | 3°10 | 4°20 | 28°16 | n.a. | T 29 |
| W30 | 0 22 11 | 3♎45'47 | 29♐10 | 17♍ 9 | 18♍51 | 2♋20 | 8♒25 | 21♉30 | 1♓43 | 1♉12 | 10♉ 8 | 3°R11 | 4♏17 | 28♎23 | n.a. | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 9n48 | 19s 9 | 2n51 | 2s58 | 3s 9 | 18n12 | 1n 4 | 23n21 | 0n11 | 19s12 | 1s27 | 16n30 | 2s 1 | 11s21 | 0s49 | 10n23 | 1s58 | 3n41 | 12s 2 | 13s15 | 13s36 | 10s44 | | n.a. |
| W 2 | 9 26 | 19 42 | 3 42 | 3 18 | 3 15 | 17 53 | 1 6 | 23 25 | 0 12 | 19 14 | 1 27 | 16 30 | 2 1 | 11 22 | 0 49 | 10 22 | 1 58 | 3 40 | 12 2 | 13 14 | 13 35 | 10 45 | | n.a. |
| T 3 | 9 4 | 19 17 | 4 23 | 3 36 | 3 20 | 17 32 | 1 8 | 23 29 | 0 14 | 19 16 | 1 27 | 16 30 | 2 1 | 11 23 | 0 49 | 10 22 | 1 58 | 3 40 | 12 3 | 13 13 | 13 34 | 10 47 | | n.a. |
| F 4 | 8 42 | 17 50 | 4 52 | 3 51 | 3 24 | 17 11 | 1 9 | 23 33 | 0 15 | 19 17 | 1 26 | 16 30 | 2 1 | 11 23 | 0 49 | 10 22 | 1 58 | 3 40 | 12 3 | 13 11 | 13 33 | 10 49 | | n.a. |
| S 5 | 8 19 | 15 22 | 5 5 | 4 3 | 3 28 | 16 50 | 1 11 | 23 36 | 0 16 | 19 19 | 1 26 | 16 30 | 2 2 | 11 24 | 0 49 | 10 21 | 1 58 | 3 39 | 12 3 | 13 9 | 13 32 | 10 50 | | n.a. |
| S 6 | 7 57 | 11 56 | 5 2 | 4 13 | 3 31 | 16 28 | 1 13 | 23 40 | 0 17 | 19 20 | 1 26 | 16 30 | 2 2 | 11 25 | 0 49 | 10 21 | 1 58 | 3 39 | 12 3 | 13 6 | 13 31 | 10 52 | | n.a. |
| M 7 | 7 34 | 7 44 | 4 39 | 4 19 | 3 33 | 16 6 | 1 14 | 23 43 | 0 18 | 19 22 | 1 26 | 16 30 | 2 2 | 11 26 | 0 49 | 10 21 | 1 58 | 3 39 | 12 3 | 13 3 | 13 30 | 10 54 | | n.a. |
| T 8 | 7 11 | 2 59 | 3 58 | 4 21 | 3 34 | 15 43 | 1 15 | 23 46 | 0 20 | 19 23 | 1 26 | 16 30 | 2 2 | 11 27 | 0 49 | 10 20 | 1 58 | 3 38 | 12 3 | 13 0 | 13 29 | 10 55 | | n.a. |
| W 9 | 6 48 | 2n 1 | 3 0 | 4 19 | 3 33 | 15 20 | 1 17 | 23 50 | 0 21 | 19 25 | 1 26 | 16 30 | 2 2 | 11 28 | 0 49 | 10 20 | 1 58 | 3 38 | 12 4 | 12 58 | 13 28 | 10 57 | | n.a. |
| T 10 | 6 25 | 6 54 | 1 50 | 4 13 | 3 32 | 14 56 | 1 18 | 23 53 | 0 22 | 19 26 | 1 26 | 16 30 | 2 2 | 11 29 | 0 49 | 10 19 | 1 58 | 3 38 | 12 4 | 12 57 | 13 27 | 10 59 | | n.a. |
| F 11 | 6 2 | 11 20 | 0 32 | 4 3 | 3 29 | 14 32 | 1 19 | 23 55 | 0 23 | 19 27 | 1 26 | 16 29 | 2 2 | 11 29 | 0 49 | 10 19 | 1 58 | 3 37 | 12 4 | 12 56 | 13 26 | 11 0 | | n.a. |
| S 12 | 5 39 | 15 1 | 0s47 | 3 48 | 3 25 | 14 8 | 1 20 | 23 58 | 0 25 | 19 29 | 1 26 | 16 29 | 2 3 | 11 30 | 0 49 | 10 19 | 1 58 | 3 37 | 12 4 | 12 56 | 13 25 | 11 2 | | n.a. |
| S 13 | 5 16 | 17 42 | 2 1 | 3 28 | 3 18 | 13 43 | 1 21 | 24 1 | 0 26 | 19 30 | 1 26 | 16 29 | 2 3 | 11 31 | 0 49 | 10 18 | 1 58 | 3 37 | 12 4 | 12 57 | 13 24 | 11 3 | | n.a. |
| M14 | 4 52 | 19 14 | 3 7 | 3 3 | 3 10 | 13 17 | 1 23 | 24 3 | 0 27 | 19 31 | 1 26 | 16 28 | 2 3 | 11 32 | 0 49 | 10 18 | 1 58 | 3 36 | 12 5 | 12 57 | 13 22 | 11 5 | | n.a. |
| T 15 | 4 29 | 19 36 | 4 0 | 2 33 | 3 0 | 12 52 | 1 23 | 24 6 | 0 29 | 19 32 | 1 25 | 16 28 | 2 3 | 11 33 | 0 49 | 10 17 | 1 58 | 3 36 | 12 5 | 12 57 | 13 21 | 11 7 | | n.a. |
| W16 | 4 5 | 18 49 | 4 39 | 1 59 | 2 48 | 12 26 | 1 24 | 24 8 | 0 30 | 19 33 | 1 25 | 16 28 | 2 3 | 11 34 | 0 49 | 10 17 | 1 58 | 3 36 | 12 5 | 12 56 | 13 20 | 11 8 | | n.a. |
| T 17 | 3 41 | 17 2 | 5 2 | 1 20 | 2 35 | 11 59 | 1 25 | 24 10 | 0 31 | 19 34 | 1 25 | 16 27 | 2 3 | 11 34 | 0 49 | 10 16 | 1 58 | 3 35 | 12 5 | 12 55 | 13 19 | 11 10 | | n.a. |
| F 18 | 3 18 | 14 26 | 5 10 | 0 38 | 2 19 | 11 32 | 1 26 | 24 12 | 0 33 | 19 35 | 1 25 | 16 27 | 2 3 | 11 35 | 0 49 | 10 16 | 1 58 | 3 35 | 12 5 | 12 53 | 13 18 | 11 11 | | n.a. |
| S 19 | 2 54 | 11 11 | 5 2 | 0n 7 | 2 2 | 11 5 | 1 27 | 24 15 | 0 34 | 19 36 | 1 25 | 16 26 | 2 4 | 11 36 | 0 49 | 10 15 | 1 58 | 3 35 | 12 5 | 12 51 | 13 17 | 11 13 | | n.a. |
| S 20 | 2 30 | 7 29 | 4 39 | 0 54 | 1 43 | 10 38 | 1 27 | 24 16 | 0 35 | 19 37 | 1 25 | 16 26 | 2 4 | 11 37 | 0 49 | 10 15 | 1 59 | 3 34 | 12 6 | 12 48 | 13 16 | 11 15 | | n.a. |
| M21 | 2 6 | 3 32 | 4 4 | 1 41 | 1 23 | 10 10 | 1 28 | 24 18 | 0 37 | 19 38 | 1 25 | 16 25 | 2 4 | 11 38 | 0 49 | 10 15 | 1 59 | 3 34 | 12 6 | 12 46 | 13 15 | 11 16 | | n.a. |
| T 22 | 1 42 | 0s31 | 3 18 | 2 28 | 1 3 | 9 42 | 1 28 | 24 20 | 0 38 | 19 38 | 1 24 | 16 25 | 2 4 | 11 38 | 0 49 | 10 14 | 1 59 | 3 33 | 12 6 | 12 44 | 13 14 | 11 18 | | n.a. |
| W23 | 1 18 | 4 30 | 2 24 | 3 13 | 0 42 | 9 14 | 1 28 | 24 22 | 0 40 | 19 39 | 1 24 | 16 24 | 2 4 | 11 39 | 0 49 | 10 14 | 1 59 | 3 33 | 12 6 | 12 42 | 13 13 | 11 19 | | n.a. |
| T 24 | 0 54 | 8 16 | 1 24 | 3 55 | 0 22 | 8 45 | 1 29 | 24 23 | 0 41 | 19 40 | 1 24 | 16 24 | 2 4 | 11 40 | 0 49 | 10 13 | 1 59 | 3 33 | 12 6 | 12 41 | 13 12 | 11 21 | | n.a. |
| F 25 | 0 30 | 11 42 | 0 20 | 4 33 | 0 2 | 8 17 | 1 29 | 24 25 | 0 42 | 19 40 | 1 24 | 16 23 | 2 4 | 11 41 | 0 49 | 10 13 | 1 59 | 3 32 | 12 6 | 12 40 | 13 11 | 11 23 | | n.a. |
| S 26 | 0 6 | 14 39 | 0n44 | 5 5 | 0n17 | 7 48 | 1 29 | 24 26 | 0 44 | 19 41 | 1 24 | 16 22 | 2 5 | 11 41 | 0 49 | 10 12 | 1 59 | 3 32 | 12 6 | 12 40 | 13 10 | 11 24 | | n.a. |
| S 27 | 0s18 | 17 0 | 1 47 | 5 33 | 0 35 | 7 18 | 1 29 | 24 27 | 0 45 | 19 41 | 1 24 | 16 22 | 2 5 | 11 42 | 0 49 | 10 11 | 1 59 | 3 32 | 12 7 | 12 41 | 13 8 | 11 26 | | n.a. |
| M28 | 0 42 | 18 37 | 2 46 | 5 55 | 0 51 | 6 49 | 1 29 | 24 29 | 0 47 | 19 41 | 1 24 | 16 21 | 2 5 | 11 43 | 0 48 | 10 11 | 1 59 | 3 31 | 12 7 | 12 42 | 13 7 | 11 27 | | n.a. |
| T 29 | 1 7 | 19 26 | 3 38 | 6 11 | 1 6 | 6 19 | 1 29 | 24 30 | 0 49 | 19 42 | 1 23 | 16 20 | 2 5 | 11 43 | 0 48 | 10 10 | 1 59 | 3 31 | 12 7 | 12 42 | 13 6 | 11 29 | | n.a. |
| W30 | 1s31 | 19s21 | 4n21 | 6n20 | 1n19 | 5n50 | 1n29 | 24n31 | 0n50 | 19s42 | 1s23 | 16n20 | 2s 5 | 11s44 | 0s48 | 10n10 | 1s59 | 3n30 | 12s 7 | 12s42 | 13s 5 | 11s31 | | n.a. |

Julian Day Number = 1688428.5, Delta T = 03h11m46s
Ecliptic obliquity = 23°42'15, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°18'44, Lahiri = - 5°11'43 Julian Calendar 1 Sept. 91 BCE == Greg. Calendar 30 Aug. 091 BCE


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# ASTRODIENST EPHEMERIS for the year 91 BCE
# geocentric

## OCTOBER 91 BCE (-90) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 26 7 | 4♎45'53 | 11♉46 | 17♍26 | 20♍ 6 | 2♋46 | 8°R23 | 21°R27 | 1°R41 | 1°R11 | 10°R 7 | 3°R10 | 4♏14 | 28♎29 | n.a. | T 1 |
| F 2 | 0 30 4 | 5°46'02 | 24°46 | 17°53 | 21°21 | 3°11 | 8♒22 | 21♉25 | 1♓39 | 1♉ 9 | 10♉ 6 | 3♏ 9 | 4°10 | 28°36 | n.a. | F 2 |
| S 3 | 0 34 1 | 6°46'11 | 8♒14 | 18°29 | 22°37 | 3°36 | 8°21 | 21°22 | 1°37 | 1° 8 | 10° 5 | 3° 6 | 4° 7 | 28°43 | n.a. | S 3 |
| S 4 | 0 37 57 | 7°46'23 | 22° 9 | 19°13 | 23°52 | 4° 1 | 8°20 | 21°19 | 1°36 | 1° 6 | 10° 4 | 3° 3 | 4° 4 | 28°49 | n.a. | S 4 |
| M 5 | 0 41 54 | 8°46'36 | 6♓33 | 20° 5 | 25° 7 | 4°26 | 8°20 | 21°16 | 1°34 | 1° 4 | 10° 3 | 2°59 | 4° 1 | 28°56 | n.a. | M 5 |
| T 6 | 0 45 50 | 9°46'50 | 21°20 | 21° 4 | 26°22 | 4°50 | 8°19 | 21°13 | 1°32 | 1° 3 | 10° 2 | 2°56 | 3°58 | 29° 3 | n.a. | T 6 |
| W 7 | 0 49 47 | 10°47'07 | 6♈23 | 22° 8 | 27°38 | 5°14 | 8°D19 | 21°10 | 1°30 | 1° 1 | 10° 1 | 2°54 | 3°54 | 29° 9 | n.a. | W 7 |
| T 8 | 0 53 43 | 11°47'25 | 21°34 | 23°18 | 28°53 | 5°37 | 8°19 | 21° 7 | 1°29 | 1° 0 | 10° 0 | 2°52 | 3°51 | 29°16 | n.a. | T 8 |
| F 9 | 0 57 40 | 12°47'45 | 6♉43 | 24°32 | 0♏ 9 | 6° 0 | 8°19 | 21° 4 | 1°27 | 0°58 | 9°59 | 2°D52 | 3°48 | 29°22 | n.a. | F 9 |
| S 10 | 1 1 36 | 13°48'07 | 21°41 | 25°50 | 1°24 | 6°23 | 8°20 | 21° 0 | 1°25 | 0°57 | 9°58 | 2°53 | 3°45 | 29°29 | n.a. | S 10 |
| S 11 | 1 5 33 | 14°48'31 | 6♊21 | 27°11 | 2°39 | 6°45 | 8°20 | 20°57 | 1°24 | 0°55 | 9°57 | 2°54 | 3°42 | 29°36 | n.a. | S 11 |
| M12 | 1 9 30 | 15°48'57 | 20°38 | 28°35 | 3°55 | 7° 7 | 8°21 | 20°53 | 1°22 | 0°53 | 9°56 | 2°55 | 3°39 | 29°42 | n.a. | M12 |
| T 13 | 1 13 26 | 16°49'25 | 4♋31 | 0♎ 1 | 5°10 | 7°29 | 8°22 | 20°50 | 1°21 | 0°52 | 9°55 | 2°56 | 3°35 | 29°49 | n.a. | T 13 |
| W14 | 1 17 23 | 17°49'55 | 18° 0 | 1°29 | 6°26 | 7°50 | 8°24 | 20°46 | 1°19 | 0°50 | 9°54 | 2°R57 | 3°32 | 29°56 | n.a. | W14 |
| T 15 | 1 21 19 | 18°50'27 | 1♌ 6 | 2°59 | 7°41 | 8°11 | 8°25 | 20°42 | 1°18 | 0°48 | 9°53 | 2°56 | 3°29 | 0♏ 2 | n.a. | T 15 |
| F 16 | 1 25 16 | 19°51'01 | 13°52 | 4°30 | 8°57 | 8°31 | 8°27 | 20°38 | 1°17 | 0°47 | 9°52 | 2°55 | 3°26 | 0° 9 | n.a. | F 16 |
| S 17 | 1 29 12 | 20°51'37 | 26°21 | 6° 2 | 10°12 | 8°51 | 8°29 | 20°35 | 1°15 | 0°45 | 9°51 | 2°54 | 3°23 | 0°16 | n.a. | S 17 |
| S 18 | 1 33 9 | 21°52'15 | 8♍37 | 7°34 | 11°28 | 9°10 | 8°31 | 20°31 | 1°14 | 0°43 | 9°50 | 2°52 | 3°20 | 0°22 | n.a. | S 18 |
| M19 | 1 37 5 | 22°52'54 | 20°43 | 9° 8 | 12°43 | 9°29 | 8°33 | 20°26 | 1°13 | 0°42 | 9°49 | 2°50 | 3°16 | 0°29 | n.a. | M19 |
| T 20 | 1 41 2 | 23°53'35 | 2♎40 | 10°42 | 13°59 | 9°48 | 8°35 | 20°22 | 1°11 | 0°40 | 9°48 | 2°49 | 3°13 | 0°36 | n.a. | T 20 |
| W21 | 1 44 59 | 24°54'18 | 14°32 | 12°16 | 15°14 | 10° 6 | 8°38 | 20°18 | 1°10 | 0°38 | 9°47 | 2°48 | 3°10 | 0°42 | n.a. | W21 |
| T 22 | 1 48 55 | 25°55'02 | 26°20 | 13°50 | 16°30 | 10°24 | 8°41 | 20°14 | 1° 9 | 0°37 | 9°46 | 2°48 | 3° 7 | 0°49 | n.a. | T 22 |
| F 23 | 1 52 52 | 26°55'48 | 8♏ 7 | 15°25 | 17°45 | 10°41 | 8°44 | 20°10 | 1° 8 | 0°35 | 9°45 | 2°D48 | 3° 4 | 0°56 | n.a. | F 23 |
| S 24 | 1 56 48 | 27°56'35 | 19°55 | 17° 0 | 19° 1 | 10°58 | 8°47 | 20° 5 | 1° 7 | 0°33 | 9°43 | 2°48 | 3° 0 | 1° 2 | n.a. | S 24 |
| S 25 | 2 0 45 | 28°57'23 | 1♐46 | 18°35 | 20°16 | 11°14 | 8°51 | 20° 1 | 1° 6 | 0°32 | 9°42 | 2°48 | 2°57 | 1° 9 | n.a. | S 25 |
| M26 | 2 4 41 | 29°58'13 | 13°43 | 20° 9 | 21°32 | 11°29 | 8°54 | 19°56 | 1° 5 | 0°30 | 9°41 | 2°49 | 2°54 | 1°15 | n.a. | M26 |
| T 27 | 2 8 38 | 0♑59'04 | 25°49 | 21°44 | 22°48 | 11°45 | 8°58 | 19°52 | 1° 4 | 0°28 | 9°40 | 2°49 | 2°51 | 1°22 | n.a. | T 27 |
| W28 | 2 12 34 | 1°59'56 | 8♉ 7 | 23°19 | 24° 3 | 11°59 | 9° 2 | 19°47 | 1° 4 | 0°26 | 9°39 | 2°49 | 2°48 | 1°29 | n.a. | W28 |
| T 29 | 2 16 31 | 3° 0'49 | 20°42 | 24°54 | 25°19 | 12°13 | 9° 6 | 19°42 | 1° 3 | 0°25 | 9°38 | 2°R49 | 2°45 | 1°35 | n.a. | T 29 |
| F 30 | 2 20 28 | 4° 1'43 | 3♒37 | 26°29 | 26°34 | 12°27 | 9°11 | 19°38 | 1° 2 | 0°23 | 9°37 | 2°D49 | 2°41 | 1°42 | n.a. | F 30 |
| S 31 | 2 24 24 | 5♑ 2'38 | 16♒54 | 28♎ 3 | 27♎50 | 12♋40 | 9♒16 | 19♉33 | 1♓ 1 | 0♉21 | 9♉36 | 2♑49 | 2♑38 | 1♑49 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| T 1 | 1 s55 | 18 s19 | 4n53 | 6n25 | 1n31 | 5n20 | 1n29 | 24n32 | 0n52 | 19 s42 | 1 s23 | 16n19 | 2 s 5 | 11 s45 | 0 s48 | 10n 9 | 1 s59 | 3n30 | 12 s 7 | 12 s42 | 13 s 4 | 11 s32 | | | n.a. |
| F 2 | 2 19 | 16 18 | 5 11 | 6 23 | 1 41 | 4 49 | 1 29 | 24 33 | 0 53 | 19 42 | 1 23 | 16 18 | 2 5 | 11 45 | 0 48 | 10 9 | 1 59 | 3 30 | 12 7 | 12 42 | 13 3 | 11 34 | | | n.a. |
| S 3 | 2 43 | 13 22 | 5 14 | 6 17 | 1 49 | 4 19 | 1 29 | 24 34 | 0 55 | 19 42 | 1 23 | 16 17 | 2 5 | 11 46 | 0 48 | 10 8 | 1 59 | 3 29 | 12 7 | 12 41 | 13 2 | 11 35 | | | n.a. |
| S 4 | 3 7 | 9 35 | 4 58 | 6 5 | 1 56 | 3 49 | 1 28 | 24 35 | 0 56 | 19 42 | 1 22 | 16 16 | 2 5 | 11 47 | 0 48 | 10 8 | 1 59 | 3 29 | 12 7 | 12 40 | 13 1 | 11 37 | | | n.a. |
| M 5 | 3 31 | 5 9 | 4 23 | 5 50 | 2 1 | 3 18 | 1 28 | 24 36 | 0 58 | 19 42 | 1 22 | 16 16 | 2 5 | 11 47 | 0 48 | 10 7 | 1 59 | 3 29 | 12 7 | 12 39 | 13 0 | 11 38 | | | n.a. |
| T 6 | 3 55 | 0 16 | 3 30 | 5 30 | 2 6 | 2 47 | 1 27 | 24 37 | 1 0 | 19 42 | 1 22 | 16 15 | 2 6 | 11 48 | 0 48 | 10 7 | 1 59 | 3 28 | 12 8 | 12 38 | 12 59 | 11 40 | | | n.a. |
| W 7 | 4 19 | 4n43 | 2 21 | 5 7 | 2 8 | 2 17 | 1 27 | 24 37 | 1 1 | 19 42 | 1 22 | 16 14 | 2 6 | 11 48 | 0 48 | 10 6 | 1 59 | 3 28 | 12 8 | 12 37 | 12 58 | 11 42 | | | n.a. |
| T 8 | 4 43 | 9 27 | 1 2 | 4 41 | 2 10 | 1 46 | 1 26 | 24 38 | 1 3 | 19 42 | 1 22 | 16 13 | 2 6 | 11 49 | 0 48 | 10 5 | 1 59 | 3 27 | 12 8 | 12 36 | 12 57 | 11 43 | | | n.a. |
| F 9 | 5 6 | 13 34 | 0 s21 | 4 12 | 2 11 | 1 15 | 1 25 | 24 39 | 1 5 | 19 42 | 1 22 | 16 12 | 2 6 | 11 50 | 0 48 | 10 5 | 1 59 | 3 27 | 12 8 | 12 36 | 12 55 | 11 45 | | | n.a. |
| S 10 | 5 30 | 16 44 | 1 42 | 3 40 | 2 11 | 0 44 | 1 25 | 24 39 | 1 6 | 19 41 | 1 21 | 16 11 | 2 6 | 11 50 | 0 48 | 10 4 | 1 59 | 3 27 | 12 8 | 12 36 | 12 54 | 11 46 | | | n.a. |
| S 11 | 5 54 | 18 44 | 2 55 | 3 7 | 2 10 | 0 13 | 1 24 | 24 40 | 1 8 | 19 41 | 1 21 | 16 10 | 2 6 | 11 51 | 0 48 | 10 4 | 1 59 | 3 26 | 12 8 | 12 37 | 12 53 | 11 48 | | | n.a. |
| M12 | 6 17 | 19 28 | 3 55 | 2 31 | 2 8 | 0 s18 | 1 23 | 24 41 | 1 10 | 19 41 | 1 21 | 16 9 | 2 6 | 11 51 | 0 48 | 10 3 | 1 59 | 3 26 | 12 8 | 12 37 | 12 52 | 11 49 | | | n.a. |
| T 13 | 6 41 | 18 59 | 4 39 | 1 54 | 2 6 | 0 49 | 1 22 | 24 41 | 1 12 | 19 40 | 1 21 | 16 8 | 2 6 | 11 52 | 0 48 | 10 3 | 1 59 | 3 25 | 12 8 | 12 38 | 12 51 | 11 51 | | | n.a. |
| W14 | 7 4 | 17 25 | 5 6 | 1 16 | 2 3 | 1 20 | 1 21 | 24 42 | 1 14 | 19 40 | 1 21 | 16 7 | 2 6 | 11 52 | 0 48 | 10 2 | 1 59 | 3 25 | 12 8 | 12 38 | 12 50 | 11 52 | | | n.a. |
| T 15 | 7 28 | 14 59 | 5 17 | 0 37 | 1 59 | 1 52 | 1 20 | 24 42 | 1 15 | 19 39 | 1 20 | 16 6 | 2 6 | 11 53 | 0 48 | 10 1 | 1 59 | 3 25 | 12 8 | 12 38 | 12 49 | 11 54 | | | n.a. |
| F 16 | 7 51 | 11 53 | 5 11 | 0 s 3 | 1 55 | 2 23 | 1 19 | 24 43 | 1 17 | 19 39 | 1 20 | 16 5 | 2 6 | 11 53 | 0 48 | 10 1 | 1 59 | 3 24 | 12 8 | 12 37 | 12 48 | 11 56 | | | n.a. |
| S 17 | 8 14 | 8 18 | 4 51 | 0 44 | 1 51 | 2 54 | 1 18 | 24 43 | 1 19 | 19 38 | 1 20 | 16 4 | 2 6 | 11 54 | 0 48 | 10 0 | 1 59 | 3 24 | 12 8 | 12 37 | 12 47 | 11 57 | | | n.a. |
| S 18 | 8 37 | 4 27 | 4 18 | 1 25 | 1 46 | 3 25 | 1 16 | 24 44 | 1 21 | 19 37 | 1 20 | 16 3 | 2 6 | 11 54 | 0 48 | 10 0 | 1 59 | 3 24 | 12 8 | 12 36 | 12 46 | 11 59 | | | n.a. |
| M19 | 9 0 | 0 28 | 3 33 | 2 7 | 1 41 | 3 56 | 1 15 | 24 44 | 1 23 | 19 36 | 1 20 | 16 1 | 2 6 | 11 54 | 0 48 | 9 59 | 1 59 | 3 23 | 12 8 | 12 36 | 12 44 | 12 0 | | | n.a. |
| T 20 | 9 22 | 3 s31 | 2 40 | 2 49 | 1 35 | 4 26 | 1 14 | 24 45 | 1 25 | 19 35 | 1 19 | 16 0 | 2 7 | 11 55 | 0 48 | 9 58 | 1 59 | 3 23 | 12 8 | 12 35 | 12 43 | 12 2 | | | n.a. |
| W21 | 9 45 | 7 19 | 1 40 | 3 31 | 1 30 | 4 57 | 1 12 | 24 46 | 1 27 | 19 35 | 1 19 | 15 59 | 2 7 | 11 55 | 0 48 | 9 58 | 1 59 | 3 23 | 12 9 | 12 35 | 12 42 | 12 3 | | | n.a. |
| T 22 | 10 7 | 10 50 | 0 36 | 4 14 | 1 24 | 5 28 | 1 11 | 24 46 | 1 29 | 19 34 | 1 19 | 15 58 | 2 7 | 11 56 | 0 48 | 9 57 | 1 59 | 3 22 | 12 9 | 12 35 | 12 41 | 12 5 | | | n.a. |
| F 23 | 10 29 | 13 54 | 0n30 | 4 56 | 1 18 | 5 58 | 1 9 | 24 47 | 1 31 | 19 33 | 1 19 | 15 57 | 2 7 | 11 56 | 0 48 | 9 57 | 1 59 | 3 22 | 12 9 | 12 35 | 12 40 | 12 6 | | | n.a. |
| S 24 | 10 51 | 16 24 | 1 34 | 5 39 | 1 12 | 6 29 | 1 8 | 24 48 | 1 33 | 19 32 | 1 19 | 15 56 | 2 7 | 11 56 | 0 48 | 9 56 | 1 59 | 3 21 | 12 9 | 12 35 | 12 39 | 12 8 | | | n.a. |
| S 25 | 11 13 | 18 13 | 2 34 | 6 21 | 1 5 | 6 59 | 1 6 | 24 48 | 1 35 | 19 30 | 1 19 | 15 54 | 2 7 | 11 57 | 0 48 | 9 55 | 1 59 | 3 21 | 12 9 | 12 35 | 12 38 | 12 9 | | | n.a. |
| M26 | 11 35 | 19 15 | 3 29 | 7 3 | 0 59 | 7 29 | 1 5 | 24 49 | 1 37 | 19 29 | 1 18 | 15 53 | 2 7 | 11 57 | 0 48 | 9 55 | 1 59 | 3 21 | 12 9 | 12 35 | 12 37 | 12 11 | | | n.a. |
| T 27 | 11 57 | 19 24 | 4 14 | 7 45 | 0 52 | 7 59 | 1 3 | 24 50 | 1 39 | 19 28 | 1 18 | 15 52 | 2 7 | 11 57 | 0 48 | 9 54 | 1 59 | 3 20 | 12 9 | 12 35 | 12 36 | 12 12 | | | n.a. |
| W28 | 12 18 | 18 38 | 4 49 | 8 27 | 0 46 | 8 29 | 1 1 | 24 50 | 1 42 | 19 27 | 1 18 | 15 51 | 2 7 | 11 57 | 0 48 | 9 54 | 1 59 | 3 20 | 12 9 | 12 35 | 12 35 | 12 14 | | | n.a. |
| T 29 | 12 39 | 16 58 | 5 11 | 9 8 | 0 39 | 8 59 | 0 59 | 24 51 | 1 44 | 19 26 | 1 18 | 15 49 | 2 7 | 11 58 | 0 48 | 9 53 | 1 59 | 3 20 | 12 9 | 12 35 | 12 34 | 12 15 | | | n.a. |
| F 30 | 13 0 | 14 24 | 5 18 | 9 49 | 0 32 | 9 28 | 0 58 | 24 52 | 1 46 | 19 24 | 1 18 | 15 48 | 2 7 | 11 58 | 0 48 | 9 52 | 1 59 | 3 19 | 12 9 | 12 35 | 12 32 | 12 17 | | | n.a. |
| S 31 | 13 s21 | 11 s 2 | 5n 9 | 10 s30 | 0n26 | 9 s57 | 0n56 | 24n53 | 1n48 | 19 s23 | 1 s17 | 15n47 | 2 s 7 | 11 s58 | 0 s47 | 9n52 | 1 s59 | 3n19 | 12 s 9 | 12 s35 | 12 s31 | 12 s18 | | | n.a. |

Julian Day Number = 1688458.5, Delta T = 03h11m45s
Ecliptic obliquity = 23°42'15, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°18'39, Lahiri = - 5°11'39 Julian Calendar 1 Oct. 91 BCE == Greg. Calendar 29 Sept. 091 BCE

The year -90 astronomical counting style corresponds to year 091 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 91 BCE
# geocentric

## NOVEMBER 91 BCE (-90) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 28 21 | 6♏ 3'34 | 0♓38 | 29♎38 | 29♎ 5 | 12♋52 | 9♒20 | 19°R28 | 1°R 1 | 0°R20 | 9°R34 | 2♏49 | 2♏35 | 1♏55 | n.a. | S 1 |
| M 2 | 2 32 17 | 7° 4'31 | 14°47 | 1♏13 | 0♏21 | 13° 4 | 9°25 | 19♉24 | 1♓ 0 | 0♉18 | 9♉33 | 2°50 | 2°32 | 2° 2 | n.a. | M 2 |
| T 3 | 2 36 14 | 8° 5'28 | 29°22 | 2°47 | 1°37 | 13°15 | 9°30 | 19°19 | 1° 0 | 0°16 | 9°32 | 2°50 | 2°29 | 2° 9 | n.a. | T 3 |
| W 4 | 2 40 10 | 9° 6'26 | 14♈17 | 4°21 | 2°52 | 13°26 | 9°36 | 19°14 | 0°59 | 0°15 | 9°31 | 2°51 | 2°26 | 2°15 | n.a. | W 4 |
| T 5 | 2 44 7 | 10° 7'26 | 29°27 | 5°56 | 4° 8 | 13°36 | 9°41 | 19° 9 | 0°59 | 0°13 | 9°30 | 2°R51 | 2°22 | 2°22 | n.a. | T 5 |
| F 6 | 2 48 3 | 11° 8'26 | 14♉41 | 7°30 | 5°23 | 13°45 | 9°47 | 19° 4 | 0°58 | 0°11 | 9°29 | 2°51 | 2°19 | 2°29 | n.a. | F 6 |
| S 7 | 2 52 0 | 12° 9'27 | 29°50 | 9° 4 | 6°39 | 13°54 | 9°53 | 18°59 | 0°58 | 0°10 | 9°27 | 2°50 | 2°16 | 2°35 | n.a. | S 7 |
| S 8 | 2 55 57 | 13°10'30 | 14♊46 | 10°39 | 7°55 | 14° 2 | 9°59 | 18°54 | 0°58 | 0° 8 | 9°26 | 2°49 | 2°13 | 2°42 | n.a. | S 8 |
| M 9 | 2 59 53 | 14°11'33 | 29°19 | 12°13 | 9°10 | 14° 9 | 10° 5 | 18°49 | 0°57 | 0° 6 | 9°25 | 2°48 | 2°10 | 2°48 | n.a. | M 9 |
| T 10 | 3 3 50 | 15°12'38 | 13♋26 | 13°47 | 10°26 | 14°16 | 10°11 | 18°44 | 0°57 | 0° 5 | 9°24 | 2°46 | 2° 6 | 2°55 | n.a. | T 10 |
| W11 | 3 7 46 | 16°13'44 | 27° 6 | 15°22 | 11°41 | 14°22 | 10°18 | 18°39 | 0°57 | 0° 3 | 9°23 | 2°45 | 2° 3 | 3° 2 | n.a. | W11 |
| T 12 | 3 11 43 | 17°14'50 | 10♌17 | 16°56 | 12°57 | 14°27 | 10°25 | 18°34 | 0°57 | 0° 1 | 9°22 | 2°44 | 2° 0 | 3° 8 | n.a. | T 12 |
| F 13 | 3 15 39 | 18°15'58 | 23° 5 | 18°30 | 14°12 | 14°32 | 10°31 | 18°29 | 0°D57 | 29♈59 | 9°21 | 2°D44 | 1°57 | 3°15 | n.a. | F 13 |
| S 14 | 3 19 36 | 19°17'07 | 5♍31 | 20° 5 | 15°28 | 14°35 | 10°39 | 18°24 | 0°57 | 29°58 | 9°20 | 2°45 | 1°54 | 3°22 | n.a. | S 14 |
| S 15 | 3 23 32 | 20°18'17 | 17°42 | 21°40 | 16°44 | 14°39 | 10°46 | 18°19 | 0°57 | 29°57 | 9°18 | 2°46 | 1°51 | 3°28 | n.a. | S 15 |
| M16 | 3 27 29 | 21°19'27 | 29°40 | 23°14 | 17°59 | 14°41 | 10°53 | 18°14 | 0°57 | 29°55 | 9°17 | 2°48 | 1°47 | 3°35 | n.a. | M16 |
| T 17 | 3 31 26 | 22°20'39 | 11♎31 | 24°49 | 19°15 | 14°42 | 11° 1 | 18° 9 | 0°57 | 29°54 | 9°16 | 2°49 | 1°44 | 3°42 | n.a. | T 17 |
| W18 | 3 35 22 | 23°21'51 | 23°18 | 26°24 | 20°30 | 14°43 | 11° 8 | 18° 4 | 0°58 | 29°52 | 9°15 | 2°51 | 1°41 | 3°48 | n.a. | W18 |
| T 19 | 3 39 19 | 24°23'04 | 5♏ 4 | 27°59 | 21°46 | 14°R43 | 11°16 | 17°59 | 0°58 | 29°51 | 9°14 | 2°R51 | 1°38 | 3°55 | n.a. | T 19 |
| F 20 | 3 43 15 | 25°24'17 | 16°53 | 29°34 | 23° 2 | 14°42 | 11°24 | 17°55 | 0°58 | 29°49 | 9°13 | 2°50 | 1°35 | 4° 2 | n.a. | F 20 |
| S 21 | 3 47 12 | 26°25'32 | 28°46 | 1♐10 | 24°17 | 14°41 | 11°32 | 17°50 | 0°59 | 29°48 | 9°12 | 2°48 | 1°31 | 4° 8 | n.a. | S 21 |
| S 22 | 3 51 8 | 27°26'46 | 10♐46 | 2°45 | 25°33 | 14°38 | 11°40 | 17°45 | 0°59 | 29°46 | 9°11 | 2°45 | 1°28 | 4°15 | n.a. | S 22 |
| M23 | 3 55 5 | 28°28'01 | 22°54 | 4°21 | 26°48 | 14°35 | 11°49 | 17°40 | 1° 0 | 29°45 | 9°10 | 2°40 | 1°25 | 4°22 | n.a. | M23 |
| T 24 | 3 59 1 | 29°29'16 | 5♑11 | 5°57 | 28° 4 | 14°31 | 11°57 | 17°35 | 1° 0 | 29°43 | 9° 9 | 2°36 | 1°22 | 4°28 | n.a. | T 24 |
| W25 | 4 2 58 | 0♐30'31 | 17°40 | 7°33 | 29°19 | 14°26 | 12° 6 | 17°30 | 1° 1 | 29°42 | 9° 7 | 2°31 | 1°19 | 4°35 | n.a. | W25 |
| T 26 | 4 6 55 | 1°31'47 | 0♒21 | 9°10 | 0♐35 | 14°21 | 12°15 | 17°25 | 1° 1 | 29°40 | 9° 6 | 2°27 | 1°16 | 4°41 | n.a. | T 26 |
| F 27 | 4 10 51 | 2°33'02 | 13°18 | 10°46 | 1°51 | 14°14 | 12°24 | 17°21 | 1° 2 | 29°39 | 9° 5 | 2°24 | 1°12 | 4°48 | n.a. | F 27 |
| S 28 | 4 14 48 | 3°34'17 | 26°32 | 12°23 | 3° 6 | 14° 7 | 12°33 | 17°16 | 1° 3 | 29°38 | 9° 4 | 2°22 | 1° 9 | 4°55 | n.a. | S 28 |
| S 29 | 4 18 44 | 4°35'32 | 10♓ 6 | 14° 0 | 4°22 | 13°59 | 12°42 | 17°11 | 1° 4 | 29°36 | 9° 3 | 2°D22 | 1° 6 | 5° 1 | n.a. | S 29 |
| M30 | 4 22 41 | 5♐36'47 | 24♓ 0 | 15♐36 | 5♐37 | 13♋50 | 12♒52 | 17♉ 7 | 1♓ 4 | 29♈35 | 9♉ 2 | 2♏23 | 1♏ 3 | 5♏ 8 | n.a. | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 13s41 | 6s59 | 4n42 | 11s10 | 0n19 | 10s26 | 0n54 | 24n54 | 1n50 | 19s21 | 1s17 | 15n46 | 2s 7 | 11s58 | 0s47 | 9n51 | 1s59 | 3n19 | 12s 9 | 12s35 | 12s30 | 12s20 | | n.a. |
| M 2 | 14 2 | 2 25 | 3 57 | 11 50 | 0 12 | 10 55 | 0 52 | 24 55 | 1 53 | 19 20 | 1 17 | 15 44 | 2 7 | 11 59 | 0 47 | 9 51 | 1 59 | 3 18 | 12 9 | 12 35 | 12 29 | 12 21 | | n.a. |
| T 3 | 14 22 | 2n26 | 2 56 | 12 29 | 0 5 | 11 23 | 0 50 | 24 57 | 1 55 | 19 18 | 1 17 | 15 43 | 2 7 | 11 59 | 0 47 | 9 50 | 1 59 | 3 18 | 12 9 | 12 35 | 12 28 | 12 23 | | n.a. |
| W 4 | 14 41 | 7 15 | 1 42 | 13 8 | 0s 1 | 11 51 | 0 48 | 24 58 | 1 57 | 19 17 | 1 17 | 15 42 | 2 7 | 11 59 | 0 47 | 9 49 | 1 59 | 3 18 | 12 9 | 12 36 | 12 27 | 12 24 | | n.a. |
| T 5 | 15 1 | 11 42 | 0 19 | 13 46 | 0 8 | 12 19 | 0 46 | 24 59 | 2 0 | 19 15 | 1 16 | 15 41 | 2 7 | 11 59 | 0 47 | 9 49 | 1 59 | 3 17 | 12 8 | 12 36 | 12 26 | 12 26 | | n.a. |
| F 6 | 15 20 | 15 23 | 1s 5 | 14 24 | 0 14 | 12 46 | 0 44 | 25 0 | 2 2 | 19 13 | 1 16 | 15 39 | 2 7 | 11 59 | 0 47 | 9 48 | 1 59 | 3 17 | 12 8 | 12 36 | 12 25 | 12 27 | | n.a. |
| S 7 | 15 39 | 17 59 | 2 25 | 15 0 | 0 21 | 13 14 | 0 42 | 25 2 | 2 4 | 19 11 | 1 16 | 15 38 | 2 6 | 11 59 | 0 47 | 9 48 | 1 59 | 3 17 | 12 8 | 12 35 | 12 24 | 12 29 | | n.a. |
| S 8 | 15 58 | 19 18 | 3 33 | 15 37 | 0 27 | 13 41 | 0 40 | 25 3 | 2 7 | 19 10 | 1 16 | 15 37 | 2 6 | 11 59 | 0 47 | 9 47 | 1 59 | 3 16 | 12 8 | 12 35 | 12 22 | 12 30 | | n.a. |
| M 9 | 16 16 | 19 17 | 4 25 | 16 12 | 0 34 | 14 7 | 0 37 | 25 5 | 2 9 | 19 8 | 1 16 | 15 35 | 2 6 | 11 59 | 0 47 | 9 47 | 1 59 | 3 16 | 12 8 | 12 35 | 12 21 | 12 32 | | n.a. |
| T 10 | 16 35 | 18 3 | 5 0 | 16 47 | 0 40 | 14 33 | 0 35 | 25 7 | 2 12 | 19 6 | 1 16 | 15 34 | 2 6 | 11 59 | 0 47 | 9 46 | 1 59 | 3 16 | 12 8 | 12 34 | 12 20 | 12 33 | | n.a. |
| W11 | 16 53 | 15 48 | 5 16 | 17 21 | 0 46 | 14 59 | 0 33 | 25 9 | 2 14 | 19 4 | 1 15 | 15 33 | 2 6 | 11 59 | 0 47 | 9 46 | 1 59 | 3 16 | 12 8 | 12 34 | 12 19 | 12 35 | | n.a. |
| T 12 | 17 10 | 12 48 | 5 15 | 17 54 | 0 52 | 15 24 | 0 31 | 25 10 | 2 17 | 19 2 | 1 15 | 15 31 | 2 6 | 11 59 | 0 47 | 9 45 | 1 59 | 3 15 | 12 8 | 12 33 | 12 18 | 12 36 | | n.a. |
| F 13 | 17 27 | 9 17 | 4 58 | 18 27 | 0 58 | 15 49 | 0 29 | 25 13 | 2 19 | 19 0 | 1 15 | 15 30 | 2 6 | 11 59 | 0 47 | 9 44 | 1 59 | 3 15 | 12 8 | 12 33 | 12 17 | 12 37 | | n.a. |
| S 14 | 17 44 | 5 27 | 4 27 | 18 59 | 1 4 | 16 14 | 0 26 | 25 15 | 2 22 | 18 58 | 1 15 | 15 29 | 2 6 | 11 59 | 0 47 | 9 44 | 1 59 | 3 15 | 12 8 | 12 34 | 12 16 | 12 39 | | n.a. |
| S 15 | 18 1 | 1 28 | 3 45 | 19 29 | 1 9 | 16 38 | 0 24 | 25 17 | 2 24 | 18 55 | 1 15 | 15 27 | 2 6 | 11 59 | 0 47 | 9 43 | 1 59 | 3 15 | 12 8 | 12 34 | 12 15 | 12 40 | | n.a. |
| M16 | 18 17 | 2s31 | 2 54 | 19 59 | 1 15 | 17 2 | 0 22 | 25 19 | 2 27 | 18 53 | 1 15 | 15 26 | 2 6 | 11 59 | 0 47 | 9 43 | 1 59 | 3 14 | 12 8 | 12 35 | 12 14 | 12 42 | | n.a. |
| T 17 | 18 33 | 6 22 | 1 55 | 20 28 | 1 20 | 17 25 | 0 19 | 25 22 | 2 30 | 18 51 | 1 14 | 15 25 | 2 6 | 11 59 | 0 47 | 9 42 | 1 59 | 3 14 | 12 8 | 12 35 | 12 12 | 12 43 | | n.a. |
| W18 | 18 49 | 9 58 | 0 53 | 20 56 | 1 25 | 17 48 | 0 17 | 25 24 | 2 32 | 18 49 | 1 14 | 15 24 | 2 6 | 11 59 | 0 47 | 9 42 | 1 59 | 3 14 | 12 8 | 12 36 | 12 11 | 12 45 | | n.a. |
| T 19 | 19 5 | 13 10 | 0n12 | 21 23 | 1 30 | 18 10 | 0 15 | 25 27 | 2 35 | 18 46 | 1 14 | 15 22 | 2 6 | 11 59 | 0 47 | 9 41 | 1 59 | 3 14 | 12 7 | 12 36 | 12 10 | 12 46 | | n.a. |
| F 20 | 19 19 | 15 50 | 1 17 | 21 49 | 1 34 | 18 32 | 0 12 | 25 29 | 2 38 | 18 44 | 1 14 | 15 21 | 2 5 | 11 59 | 0 47 | 9 41 | 1 59 | 3 13 | 12 7 | 12 35 | 12 9 | 12 48 | | n.a. |
| S 21 | 19 34 | 17 52 | 2 18 | 22 14 | 1 39 | 18 53 | 0 10 | 25 32 | 2 40 | 18 41 | 1 14 | 15 20 | 2 5 | 11 58 | 0 47 | 9 40 | 1 59 | 3 13 | 12 7 | 12 35 | 12 8 | 12 49 | | n.a. |
| S 22 | 19 48 | 19 6 | 3 14 | 22 37 | 1 43 | 19 14 | 0 8 | 25 35 | 2 43 | 18 39 | 1 14 | 15 19 | 2 5 | 11 58 | 0 47 | 9 40 | 1 59 | 3 13 | 12 7 | 12 34 | 12 7 | 12 50 | | n.a. |
| M23 | 20 2 | 19 29 | 4 2 | 23 0 | 1 47 | 19 34 | 0 5 | 25 38 | 2 46 | 18 36 | 1 13 | 15 17 | 2 5 | 11 58 | 0 47 | 9 39 | 1 59 | 3 13 | 12 7 | 12 32 | 12 6 | 12 52 | | n.a. |
| T 24 | 20 16 | 18 58 | 4 39 | 23 21 | 1 51 | 19 54 | 0 3 | 25 41 | 2 48 | 18 34 | 1 13 | 15 16 | 2 5 | 11 58 | 0 47 | 9 39 | 1 59 | 3 12 | 12 7 | 12 30 | 12 5 | 12 53 | | n.a. |
| W25 | 20 29 | 17 31 | 5 3 | 23 41 | 1 54 | 20 13 | 0 0 | 25 45 | 2 51 | 18 31 | 1 13 | 15 15 | 2 5 | 11 57 | 0 46 | 9 38 | 1 59 | 3 12 | 12 7 | 12 29 | 12 4 | 12 55 | | n.a. |
| T 26 | 20 42 | 15 12 | 5 13 | 24 0 | 1 57 | 20 32 | 0s 2 | 25 48 | 2 54 | 18 29 | 1 13 | 15 14 | 2 5 | 11 57 | 0 46 | 9 38 | 1 59 | 3 12 | 12 7 | 12 27 | 12 2 | 12 56 | | n.a. |
| F 27 | 20 54 | 12 6 | 5 8 | 24 17 | 2 0 | 20 50 | 0 4 | 25 51 | 2 56 | 18 26 | 1 13 | 15 12 | 2 4 | 11 57 | 0 46 | 9 37 | 1 58 | 3 12 | 12 6 | 12 26 | 12 1 | 12 58 | | n.a. |
| S 28 | 21 6 | 8 19 | 4 46 | 24 33 | 2 2 | 21 7 | 0 7 | 25 55 | 2 59 | 18 23 | 1 13 | 15 11 | 2 4 | 11 57 | 0 46 | 9 37 | 1 58 | 3 12 | 12 6 | 12 26 | 12 0 | 12 59 | | n.a. |
| S 29 | 21 18 | 4 2 | 4 8 | 24 47 | 2 4 | 21 24 | 0 9 | 25 58 | 3 2 | 18 20 | 1 12 | 15 10 | 2 4 | 11 56 | 0 46 | 9 37 | 1 58 | 3 11 | 12 6 | 12 26 | 11 59 | 13 0 | | n.a. |
| M30 | 21s29 | 0n34 | 3n15 | 25s 0 | 2s 6 | 21s40 | 0s11 | 26n 2 | 3n 5 | 18s18 | 1s12 | 15n 9 | 2s 4 | 11s56 | 0s46 | 9n36 | 1s58 | 3n11 | 12s 6 | 12s26 | 11s58 | 13s 2 | | n.a. |

Julian Day Number = 1688489.5, Delta T = 03h11m44s
Ecliptic obliquity = 23°42'14, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°18'35, Lahiri = - 5°11'35 Julian Calendar 1 Nov. 91 BCE == Greg. Calendar 30 Oct. 091 BCE

The year -90 astronomical counting style corresponds to year 091 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 91 BCE
# geocentric

## DECEMBER 91 BCE (-90) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 4 26 37 | 6♐38'01 | 8♈14 | 17♐13 | 6♐53 | 13°R40 | 13♒ 1 | 17°R 2 | 1♓ 5 | 29°R34 | 9°R 1 | 2♏25 | 1♏ 0 | 5♏15 | n.a. | T 1 |
| W 2 | 4 30 34 | 7°39'15 | 22°49 | 18°50 | 8° 8 | 13♋30 | 13°11 | 16♉58 | 1° 6 | 29♈32 | 9♉ 0 | 2°26 | 0°57 | 5°21 | n.a. | W 2 |
| T 3 | 4 34 30 | 8°40'29 | 7♉39 | 20°27 | 9°24 | 13°18 | 13°21 | 16°53 | 1° 7 | 29°31 | 8°59 | 2°R26 | 0°53 | 5°28 | n.a. | T 3 |
| F 4 | 4 38 27 | 9°41'43 | 22°39 | 22° 4 | 10°39 | 13° 6 | 13°30 | 16°49 | 1° 8 | 29°30 | 8°58 | 2°25 | 0°50 | 5°35 | n.a. | F 4 |
| S 5 | 4 42 24 | 10°42'57 | 7♊41 | 23°40 | 11°55 | 12°53 | 13°41 | 16°45 | 1° 9 | 29°29 | 8°57 | 2°21 | 0°47 | 5°41 | n.a. | S 5 |
| S 6 | 4 46 20 | 11°44'10 | 22°35 | 25°16 | 13°10 | 12°40 | 13°51 | 16°40 | 1°11 | 29°28 | 8°56 | 2°16 | 0°44 | 5°48 | n.a. | S 6 |
| M 7 | 4 50 17 | 12°45'24 | 7♋13 | 26°52 | 14°25 | 12°25 | 14° 1 | 16°36 | 1°12 | 29°26 | 8°55 | 2°10 | 0°41 | 5°55 | n.a. | M 7 |
| T 8 | 4 54 13 | 13°46'37 | 21°29 | 28°27 | 15°41 | 12°10 | 14°11 | 16°32 | 1°13 | 29°25 | 8°55 | 2° 3 | 0°37 | 6° 1 | n.a. | T 8 |
| W 9 | 4 58 10 | 14°47'50 | 5♌17 | 0♍ 2 | 16°56 | 11°54 | 14°22 | 16°28 | 1°14 | 29°24 | 8°54 | 1°56 | 0°34 | 6° 8 | n.a. | W 9 |
| T 10 | 5 2 6 | 15°49'04 | 18°38 | 1°35 | 18°12 | 11°37 | 14°32 | 16°24 | 1°16 | 29°23 | 8°53 | 1°51 | 0°31 | 6°14 | n.a. | T 10 |
| F 11 | 5 6 3 | 16°50'17 | 1♍31 | 3° 7 | 19°27 | 11°20 | 14°43 | 16°20 | 1°17 | 29°22 | 8°52 | 1°48 | 0°28 | 6°21 | n.a. | F 11 |
| S 12 | 5 10 0 | 17°51'30 | 14° 2 | 4°37 | 20°43 | 11° 2 | 14°54 | 16°16 | 1°19 | 29°21 | 8°51 | 1°D47 | 0°25 | 6°28 | n.a. | S 12 |
| S 13 | 5 13 56 | 18°52'42 | 26°13 | 6° 5 | 21°58 | 10°43 | 15° 5 | 16°12 | 1°20 | 29°20 | 8°50 | 1°47 | 0°22 | 6°34 | n.a. | S 13 |
| M14 | 5 17 53 | 19°53'55 | 8♎10 | 7°31 | 23°13 | 10°24 | 15°16 | 16° 9 | 1°22 | 29°19 | 8°49 | 1°48 | 0°18 | 6°41 | n.a. | M14 |
| T 15 | 5 21 49 | 20°55'07 | 19°59 | 8°55 | 24°29 | 10° 4 | 15°27 | 16° 5 | 1°23 | 29°18 | 8°49 | 1°49 | 0°15 | 6°48 | n.a. | T 15 |
| W16 | 5 25 46 | 21°56'20 | 1♏45 | 10°14 | 25°44 | 9°43 | 15°38 | 16° 1 | 1°25 | 29°17 | 8°48 | 1°R50 | 0°12 | 6°54 | n.a. | W16 |
| T 17 | 5 29 42 | 22°57'31 | 13°32 | 11°30 | 27° 0 | 9°22 | 15°50 | 15°58 | 1°26 | 29°16 | 8°47 | 1°49 | 0° 9 | 7° 1 | n.a. | T 17 |
| F 18 | 5 33 39 | 23°58'43 | 25°25 | 12°41 | 28°15 | 9° 1 | 16° 1 | 15°54 | 1°28 | 29°16 | 8°46 | 1°46 | 0° 6 | 7° 8 | n.a. | F 18 |
| S 19 | 5 37 35 | 24°59'54 | 7♐25 | 13°47 | 29°30 | 8°39 | 16°13 | 15°51 | 1°30 | 29°15 | 8°45 | 1°41 | 0° 3 | 7°14 | n.a. | S 19 |
| S 20 | 5 41 32 | 26° 1'04 | 19°36 | 14°46 | 0♑46 | 8°17 | 16°24 | 15°48 | 1°32 | 29°14 | 8°45 | 1°33 | 29♎59 | 7°21 | n.a. | S 20 |
| M21 | 5 45 29 | 27° 2'14 | 1♑59 | 15°39 | 2° 1 | 7°54 | 16°36 | 15°45 | 1°34 | 29°13 | 8°44 | 1°23 | 29°56 | 7°28 | n.a. | M21 |
| T 22 | 5 49 25 | 28° 3'22 | 14°34 | 16°23 | 3°16 | 7°31 | 16°48 | 15°42 | 1°36 | 29°13 | 8°43 | 1°12 | 29°53 | 7°34 | n.a. | T 22 |
| W23 | 5 53 22 | 29° 4'30 | 27°21 | 16°59 | 4°32 | 7° 7 | 17° 0 | 15°39 | 1°38 | 29°12 | 8°43 | 1° 1 | 29°50 | 7°41 | n.a. | W23 |
| T 24 | 5 57 18 | 0♑ 5'37 | 10♒20 | 17°25 | 5°47 | 6°44 | 17°12 | 15°36 | 1°39 | 29°11 | 8°42 | 0°51 | 29°47 | 7°48 | n.a. | T 24 |
| F 25 | 6 1 15 | 1° 6'43 | 23°31 | 17°41 | 7° 2 | 6°20 | 17°24 | 15°33 | 1°42 | 29°11 | 8°41 | 0°43 | 29°43 | 7°54 | n.a. | F 25 |
| S 26 | 6 5 11 | 2° 7'48 | 6♓54 | 17°R46 | 8°18 | 5°56 | 17°36 | 15°31 | 1°44 | 29°10 | 8°41 | 0°37 | 29°40 | 8° 1 | n.a. | S 26 |
| S 27 | 6 9 8 | 3° 8'51 | 20°29 | 17°39 | 9°33 | 5°32 | 17°48 | 15°28 | 1°46 | 29° 9 | 8°40 | 0°34 | 29°37 | 8° 7 | n.a. | S 27 |
| M28 | 6 13 4 | 4° 9'54 | 4♈16 | 17°21 | 10°48 | 5° 8 | 18° 1 | 15°26 | 1°48 | 29° 9 | 8°39 | 0°D34 | 29°34 | 8°14 | n.a. | M28 |
| T 29 | 6 17 1 | 5°10'54 | 18°17 | 16°52 | 12° 3 | 4°44 | 18°13 | 15°23 | 1°50 | 29° 8 | 8°39 | 0°34 | 29°31 | 8°21 | n.a. | T 29 |
| W30 | 6 20 58 | 6°11'54 | 2♉31 | 16°11 | 13°19 | 4°20 | 18°25 | 15°21 | 1°52 | 29° 8 | 8°38 | 0°R34 | 29°28 | 8°27 | n.a. | W30 |
| T 31 | 6 24 54 | 7♑12'52 | 16♉57 | 15♑21 | 14♑34 | 3♋56 | 18♒38 | 15♉19 | 1♓55 | 29♈ 8 | 8♉38 | 0♏33 | 29♎24 | 8♏34 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| T 1 | 21s39 | 5n16 | 2n 9 | 25s12 | 2s 7 | 21s55 | 0s14 | 26n 6 | 3n 7 | 18s15 | 1s12 | 15n 8 | 2s 4 | 11s56 | 0s46 | 9n36 | 1s58 | 3n11 | 12s 6 | 12s27 | 11s57 | 13s 3 | | | n.a. |
| W 2 | 21 50 | 9 47 | 0 52 | 25 21 | 2 8 | 22 10 | 0 16 | 26 10 | 3 10 | 18 12 | 1 12 | 15 7 | 2 4 | 11 55 | 0 46 | 9 35 | 1 58 | 3 11 | 12 6 | 12 27 | 11 56 | 13 5 | | | n.a. |
| T 3 | 22 0 | 13 46 | 0s28 | 25 30 | 2 9 | 22 24 | 0 18 | 26 13 | 3 13 | 18 9 | 1 12 | 15 6 | 2 4 | 11 55 | 0 46 | 9 35 | 1 58 | 3 11 | 12 6 | 12 27 | 11 55 | 13 6 | | | n.a. |
| F 4 | 22 9 | 16 54 | 1 48 | 25 36 | 2 8 | 22 38 | 0 21 | 26 17 | 3 15 | 18 6 | 1 12 | 15 5 | 2 3 | 11 54 | 0 46 | 9 35 | 1 58 | 3 11 | 12 5 | 12 27 | 11 54 | 13 7 | | | n.a. |
| S 5 | 22 18 | 18 52 | 3 0 | 25 41 | 2 8 | 22 51 | 0 23 | 26 21 | 3 18 | 18 3 | 1 12 | 15 3 | 2 3 | 11 54 | 0 46 | 9 34 | 1 58 | 3 11 | 12 5 | 12 25 | 11 52 | 13 9 | | | n.a. |
| S 6 | 22 27 | 19 31 | 3 59 | 25 44 | 2 7 | 23 3 | 0 25 | 26 25 | 3 20 | 18 0 | 1 11 | 15 2 | 2 3 | 11 53 | 0 46 | 9 34 | 1 58 | 3 10 | 12 5 | 12 24 | 11 51 | 13 10 | | | n.a. |
| M 7 | 22 35 | 18 49 | 4 41 | 25 45 | 2 5 | 23 14 | 0 28 | 26 29 | 3 23 | 17 56 | 1 11 | 15 1 | 2 3 | 11 53 | 0 46 | 9 33 | 1 58 | 3 10 | 12 5 | 12 21 | 11 50 | 13 12 | | | n.a. |
| T 8 | 22 42 | 16 57 | 5 5 | 25 44 | 2 3 | 23 25 | 0 30 | 26 33 | 3 25 | 17 53 | 1 11 | 15 0 | 2 3 | 11 53 | 0 46 | 9 33 | 1 58 | 3 10 | 12 5 | 12 19 | 11 49 | 13 13 | | | n.a. |
| W 9 | 22 50 | 14 9 | 5 10 | 25 42 | 2 0 | 23 35 | 0 32 | 26 37 | 3 28 | 17 50 | 1 11 | 14 59 | 2 2 | 11 52 | 0 46 | 9 33 | 1 58 | 3 10 | 12 4 | 12 17 | 11 48 | 13 14 | | | n.a. |
| T 10 | 22 56 | 10 42 | 4 57 | 25 37 | 1 56 | 23 44 | 0 34 | 26 41 | 3 30 | 17 47 | 1 11 | 14 58 | 2 2 | 11 51 | 0 46 | 9 32 | 1 58 | 3 10 | 12 4 | 12 15 | 11 47 | 13 16 | | | n.a. |
| F 11 | 23 3 | 6 51 | 4 30 | 25 31 | 1 51 | 23 53 | 0 36 | 26 45 | 3 33 | 17 44 | 1 11 | 14 58 | 2 2 | 11 51 | 0 46 | 9 32 | 1 58 | 3 10 | 12 4 | 12 14 | 11 46 | 13 17 | | | n.a. |
| S 12 | 23 9 | 2 49 | 3 50 | 25 23 | 1 46 | 24 1 | 0 39 | 26 49 | 3 35 | 17 40 | 1 11 | 14 57 | 2 2 | 11 50 | 0 46 | 9 32 | 1 58 | 3 10 | 12 4 | 12 13 | 11 45 | 13 19 | | | n.a. |
| S 13 | 23 14 | 1s14 | 3 1 | 25 14 | 1 40 | 24 8 | 0 41 | 26 53 | 3 37 | 17 37 | 1 11 | 14 56 | 2 2 | 11 50 | 0 46 | 9 32 | 1 58 | 3 10 | 12 4 | 12 13 | 11 43 | 13 20 | | | n.a. |
| M14 | 23 19 | 5 11 | 2 5 | 25 2 | 1 33 | 24 14 | 0 43 | 26 56 | 3 40 | 17 33 | 1 10 | 14 55 | 2 1 | 11 49 | 0 46 | 9 31 | 1 58 | 3 10 | 12 3 | 12 14 | 11 42 | 13 21 | | | n.a. |
| T 15 | 23 23 | 8 53 | 1 4 | 24 49 | 1 25 | 24 20 | 0 45 | 27 0 | 3 42 | 17 30 | 1 10 | 14 54 | 2 1 | 11 49 | 0 46 | 9 31 | 1 58 | 3 10 | 12 3 | 12 14 | 11 41 | 13 23 | | | n.a. |
| W16 | 23 27 | 12 13 | 0 0 | 24 34 | 1 16 | 24 25 | 0 47 | 27 4 | 3 44 | 17 26 | 1 10 | 14 53 | 2 1 | 11 48 | 0 46 | 9 31 | 1 58 | 3 10 | 12 3 | 12 15 | 11 40 | 13 24 | | | n.a. |
| T 17 | 23 31 | 15 5 | 1n 3 | 24 18 | 1 6 | 24 29 | 0 49 | 27 8 | 3 46 | 17 23 | 1 10 | 14 52 | 2 1 | 11 47 | 0 46 | 9 30 | 1 57 | 3 10 | 12 3 | 12 14 | 11 39 | 13 25 | | | n.a. |
| F 18 | 23 34 | 17 20 | 2 4 | 24 1 | 0 55 | 24 32 | 0 51 | 27 11 | 3 48 | 17 19 | 1 10 | 14 52 | 2 0 | 11 47 | 0 46 | 9 30 | 1 57 | 3 10 | 12 3 | 12 13 | 11 38 | 13 27 | | | n.a. |
| S 19 | 23 36 | 18 50 | 2 59 | 23 42 | 0 43 | 24 35 | 0 53 | 27 15 | 3 50 | 17 16 | 1 10 | 14 51 | 2 0 | 11 46 | 0 46 | 9 30 | 1 57 | 3 10 | 12 2 | 12 11 | 11 37 | 13 28 | | | n.a. |
| S 20 | 23 39 | 19 30 | 3 48 | 23 23 | 0 30 | 24 37 | 0 55 | 27 18 | 3 52 | 17 12 | 1 10 | 14 50 | 2 0 | 11 45 | 0 46 | 9 30 | 1 57 | 3 10 | 12 2 | 12 8 | 11 36 | 13 30 | | | n.a. |
| M21 | 23 40 | 19 15 | 4 26 | 23 3 | 0 16 | 24 38 | 0 57 | 27 21 | 3 54 | 17 8 | 1 10 | 14 50 | 2 0 | 11 45 | 0 45 | 9 30 | 1 57 | 3 10 | 12 2 | 12 5 | 11 34 | 13 31 | | | n.a. |
| T 22 | 23 41 | 18 3 | 4 52 | 22 42 | 0 1 | 24 38 | 0 58 | 27 24 | 3 55 | 17 5 | 1 10 | 14 49 | 2 0 | 11 44 | 0 45 | 9 29 | 1 57 | 3 10 | 12 2 | 12 1 | 11 33 | 13 32 | | | n.a. |
| W23 | 23 42 | 15 57 | 5 4 | 22 22 | 0n15 | 24 38 | 1 0 | 27 27 | 3 57 | 17 1 | 1 9 | 14 48 | 1 59 | 11 43 | 0 45 | 9 29 | 1 57 | 3 10 | 12 1 | 11 57 | 11 32 | 13 34 | | | n.a. |
| T 24 | 23 42 | 13 1 | 5 1 | 22 2 | 0 32 | 24 36 | 1 2 | 27 30 | 3 58 | 16 57 | 1 9 | 14 48 | 1 59 | 11 42 | 0 45 | 9 29 | 1 57 | 3 10 | 12 1 | 11 54 | 11 31 | 13 35 | | | n.a. |
| F 25 | 23 42 | 9 24 | 4 41 | 21 42 | 0 49 | 24 34 | 1 4 | 27 32 | 4 0 | 16 53 | 1 9 | 14 47 | 1 59 | 11 42 | 0 45 | 9 29 | 1 57 | 3 10 | 12 1 | 11 51 | 11 30 | 13 36 | | | n.a. |
| S 26 | 23 41 | 5 16 | 4 6 | 21 24 | 1 8 | 24 31 | 1 5 | 27 35 | 4 1 | 16 49 | 1 9 | 14 47 | 1 59 | 11 41 | 0 45 | 9 29 | 1 57 | 3 10 | 12 1 | 11 49 | 11 29 | 13 38 | | | n.a. |
| S 27 | 23 40 | 0 48 | 3 17 | 21 6 | 1 26 | 24 28 | 1 7 | 27 37 | 4 2 | 16 46 | 1 9 | 14 46 | 1 58 | 11 40 | 0 45 | 9 29 | 1 57 | 3 10 | 12 1 | 11 48 | 11 28 | 13 39 | | | n.a. |
| M28 | 23 38 | 3n47 | 2 16 | 20 50 | 1 45 | 24 24 | 1 8 | 27 39 | 4 3 | 16 42 | 1 9 | 14 46 | 1 58 | 11 39 | 0 45 | 9 28 | 1 57 | 3 10 | 12 0 | 11 48 | 11 26 | 13 40 | | | n.a. |
| T 29 | 23 36 | 8 15 | 1 5 | 20 36 | 2 3 | 24 18 | 1 10 | 27 41 | 4 4 | 16 38 | 1 9 | 14 45 | 1 58 | 11 38 | 0 45 | 9 28 | 1 57 | 3 10 | 12 0 | 11 48 | 11 25 | 13 42 | | | n.a. |
| W30 | 23 33 | 12 19 | 0s10 | 20 23 | 2 21 | 24 13 | 1 11 | 27 43 | 4 5 | 16 34 | 1 9 | 14 45 | 1 58 | 11 38 | 0 45 | 9 28 | 1 57 | 3 10 | 12 0 | 11 48 | 11 24 | 13 43 | | | n.a. |
| T 31 | 23s30 | 15n42 | 1s26 | 20s12 | 2n38 | 24s 6 | 1s13 | 27n44 | 4n 6 | 16s30 | 1s 9 | 14n44 | 1s57 | 11s37 | 0s45 | 9n28 | 1s57 | 3n10 | 12s 0 | 11s48 | 11s23 | 13s44 | | | n.a. |

Julian Day Number = 1688519.5, Delta T = 03h11m43s
Ecliptic obliquity = 23°42'13, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°18'31, Lahiri = - 5°11'31 Julian Calendar 1 Dec. 91 BCE == Greg. Calendar 29 Nov. 091 BCE

The year -90 astronomical counting style corresponds to year 091 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 90 BCE
# geocentric

## JANUARY 90 BCE (-89) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 6 28 51 | 8♑13'49 | 1♊31 | 14°R23 | 15♑49 | 3°R32 | 18♒51 | 15°R17 | 1♓57 | 29°R 7 | 8°R37 | 0°R30 | 29♎21 | 8♏41 | n.a. | F 1 |
| S 2 | 6 32 47 | 9°14'45 | 16° 9 | 13♑18 | 17° 4 | 3♋ 8 | 19° 3 | 15♉15 | 1°59 | 29♈ 7 | 8♉37 | 0♏24 | 29°18 | 8°47 | n.a. | S 2 |
| S 3 | 6 36 44 | 10°15'39 | 0♋44 | 12° 7 | 18°19 | 2°45 | 19°16 | 15°13 | 2° 2 | 29° 6 | 8°36 | 0°15 | 29°15 | 8°54 | n.a. | S 3 |
| M 4 | 6 40 40 | 11°16'32 | 15° 9 | 10°54 | 19°35 | 2°22 | 19°29 | 15°12 | 2° 4 | 29° 6 | 8°36 | 0° 4 | 29°12 | 9° 1 | n.a. | M 4 |
| T 5 | 6 44 37 | 12°17'24 | 29°18 | 9°41 | 20°50 | 1°59 | 19°42 | 15°10 | 2° 6 | 29° 6 | 8°35 | 29♎52 | 29° 9 | 9° 7 | n.a. | T 5 |
| W 6 | 6 48 34 | 13°18'14 | 13♌ 5 | 8°28 | 22° 5 | 1°37 | 19°55 | 15° 9 | 2° 9 | 29° 6 | 8°35 | 29°41 | 29° 5 | 9°14 | n.a. | W 6 |
| T 7 | 6 52 30 | 14°19'04 | 26°26 | 7°19 | 23°20 | 1°15 | 20° 8 | 15° 7 | 2°11 | 29° 5 | 8°34 | 29°31 | 29° 2 | 9°21 | n.a. | T 7 |
| F 8 | 6 56 27 | 15°19'52 | 9♍23 | 6°15 | 24°35 | 0°53 | 20°21 | 15° 6 | 2°14 | 29° 5 | 8°34 | 29°23 | 28°59 | 9°27 | n.a. | F 8 |
| S 9 | 7 0 23 | 16°20'39 | 21°57 | 5°17 | 25°50 | 0°32 | 20°34 | 15° 5 | 2°17 | 29° 5 | 8°34 | 29°18 | 28°56 | 9°34 | n.a. | S 9 |
| S 10 | 7 4 20 | 17°21'25 | 4♎11 | 4°26 | 27° 5 | 0°11 | 20°47 | 15° 4 | 2°19 | 29° 5 | 8°33 | 29°16 | 28°53 | 9°41 | n.a. | S 10 |
| M11 | 7 8 16 | 18°22'09 | 16°11 | 3°42 | 28°20 | 29♊51 | 21° 1 | 15° 3 | 2°22 | 29° 5 | 8°33 | 29°D15 | 28°49 | 9°47 | n.a. | M11 |
| T 12 | 7 12 13 | 19°22'53 | 28° 1 | 3° 7 | 29°35 | 29°31 | 21°14 | 15° 2 | 2°25 | 29°D 5 | 8°33 | 29°R15 | 28°46 | 9°54 | n.a. | T 12 |
| W13 | 7 16 9 | 20°23'35 | 9♏48 | 2°40 | 0♒50 | 29°12 | 21°28 | 15° 1 | 2°27 | 29° 5 | 8°33 | 29°15 | 28°43 | 10° 0 | n.a. | W13 |
| T 14 | 7 20 6 | 21°24'16 | 21°37 | 2°21 | 2° 5 | 28°54 | 21°41 | 15° 1 | 2°30 | 29° 5 | 8°32 | 29°13 | 28°40 | 10° 7 | n.a. | T 14 |
| F 15 | 7 24 2 | 22°24'56 | 3♐33 | 2°10 | 3°20 | 28°36 | 21°55 | 15° 0 | 2°33 | 29° 5 | 8°32 | 29° 9 | 28°37 | 10°14 | n.a. | F 15 |
| S 16 | 7 27 59 | 23°25'34 | 15°40 | 2°D 6 | 4°35 | 28°19 | 22° 8 | 15° 0 | 2°36 | 29° 5 | 8°32 | 29° 2 | 28°34 | 10°20 | n.a. | S 16 |
| S 17 | 7 31 56 | 24°26'11 | 28° 1 | 2° 9 | 5°50 | 28° 3 | 22°22 | 15° 0 | 2°39 | 29° 5 | 8°32 | 28°52 | 28°30 | 10°27 | n.a. | S 17 |
| M18 | 7 35 52 | 25°26'47 | 10♑37 | 2°19 | 7° 5 | 27°47 | 22°35 | 15° 0 | 2°41 | 29° 6 | 8°31 | 28°40 | 28°27 | 10°34 | n.a. | M18 |
| T 19 | 7 39 49 | 26°27'21 | 23°31 | 2°35 | 8°20 | 27°32 | 22°49 | 15°D 0 | 2°44 | 29° 6 | 8°31 | 28°26 | 28°24 | 10°40 | n.a. | T 19 |
| W20 | 7 43 45 | 27°27'53 | 6♒40 | 2°58 | 9°35 | 27°18 | 23° 3 | 15° 0 | 2°47 | 29° 6 | 8°31 | 28°12 | 28°21 | 10°47 | n.a. | W20 |
| T 21 | 7 47 42 | 28°28'24 | 20° 3 | 3°25 | 10°50 | 27° 5 | 23°17 | 15° 0 | 2°50 | 29° 6 | 8°31 | 28° 0 | 28°18 | 10°54 | n.a. | T 21 |
| F 22 | 7 51 38 | 29°28'52 | 3♓37 | 3°58 | 12° 5 | 26°52 | 23°31 | 15° 0 | 2°53 | 29° 7 | 8°31 | 27°49 | 28°15 | 11° 0 | n.a. | F 22 |
| S 23 | 7 55 35 | 0♒29'19 | 17°21 | 4°35 | 13°19 | 26°40 | 23°44 | 15° 1 | 2°56 | 29° 7 | 8°31 | 27°42 | 28°11 | 11° 7 | n.a. | S 23 |
| S 24 | 7 59 31 | 1°29'44 | 1♈11 | 5°16 | 14°34 | 26°29 | 23°58 | 15° 1 | 2°59 | 29° 8 | 8°31 | 27°38 | 28° 8 | 11°14 | n.a. | S 24 |
| M25 | 8 3 28 | 2°30'06 | 15° 7 | 6° 1 | 15°49 | 26°19 | 24°12 | 15° 2 | 3° 2 | 29° 8 | 8°D31 | 27°36 | 28° 5 | 11°20 | n.a. | M25 |
| T 26 | 8 7 25 | 3°30'27 | 29° 8 | 6°50 | 17° 4 | 26° 9 | 24°26 | 15° 3 | 3° 5 | 29° 8 | 8°31 | 27°36 | 28° 2 | 11°27 | n.a. | T 26 |
| W27 | 8 11 21 | 4°30'45 | 13♉13 | 7°42 | 18°18 | 26° 1 | 24°40 | 15° 4 | 3° 8 | 29° 9 | 8°31 | 27°35 | 27°59 | 11°34 | n.a. | W27 |
| T 28 | 8 15 18 | 5°31'01 | 27°22 | 8°38 | 19°33 | 25°53 | 24°54 | 15° 5 | 3°12 | 29° 9 | 8°31 | 27°34 | 27°55 | 11°40 | n.a. | T 28 |
| F 29 | 8 19 14 | 6°31'16 | 11♊33 | 9°36 | 20°48 | 25°46 | 25° 9 | 15° 6 | 3°15 | 29°10 | 8°31 | 27°30 | 27°52 | 11°47 | n.a. | F 29 |
| S 30 | 8 23 11 | 7°31'28 | 25°44 | 10°37 | 22° 2 | 25°40 | 25°23 | 15° 7 | 3°18 | 29°11 | 8°31 | 27°24 | 27°49 | 11°54 | n.a. | S 30 |
| S 31 | 8 27 7 | 8♒31'38 | 9♋51 | 11♑40 | 23♒17 | 25♊34 | 25♒37 | 15♉ 9 | 3♓21 | 29♈11 | 8♉31 | 27♎15 | 27♎46 | 12♏ 0 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 23s27 | 18n 8 | 2s37 | 20s 3 | 2n53 | 23s59 | 1s14 | 27n46 | 4n 6 | 16s26 | 1s 9 | 14n44 | 1s57 | 11s36 | 0s45 | 9n28 | 1s57 | 3n10 | 11s59 | 11s46 | 11s22 | 13s46 | | n.a. |
| S 2 | 23 23 | 19 22 | 3 37 | 19 56 | 3 7 | 23 51 | 1 15 | 27 47 | 4 7 | 16 22 | 1 9 | 14 44 | 1 57 | 11 35 | 0 45 | 9 28 | 1 56 | 3 10 | 11 59 | 11 44 | 11 21 | 13 47 | | n.a. |
| S 3 | 23 18 | 19 19 | 4 23 | 19 51 | 3 18 | 23 42 | 1 16 | 27 48 | 4 8 | 16 17 | 1 8 | 14 44 | 1 56 | 11 34 | 0 45 | 9 28 | 1 56 | 3 10 | 11 59 | 11 41 | 11 20 | 13 48 | | n.a. |
| M 4 | 23 13 | 18 0 | 4 52 | 19 48 | 3 28 | 23 32 | 1 18 | 27 49 | 4 8 | 16 13 | 1 8 | 14 43 | 1 56 | 11 33 | 0 45 | 9 28 | 1 56 | 3 10 | 11 58 | 11 37 | 11 19 | 13 50 | | n.a. |
| T 5 | 23 8 | 15 36 | 5 2 | 19 46 | 3 35 | 23 22 | 1 19 | 27 49 | 4 8 | 16 9 | 1 8 | 14 43 | 1 56 | 11 32 | 0 45 | 9 28 | 1 56 | 3 10 | 11 58 | 11 33 | 11 17 | 13 51 | | n.a. |
| W 6 | 23 2 | 12 23 | 4 54 | 19 47 | 3 40 | 23 11 | 1 20 | 27 50 | 4 8 | 16 5 | 1 8 | 14 43 | 1 56 | 11 31 | 0 45 | 9 28 | 1 56 | 3 11 | 11 58 | 11 29 | 11 16 | 13 52 | | n.a. |
| T 7 | 22 55 | 8 37 | 4 30 | 19 48 | 3 42 | 22 59 | 1 21 | 27 50 | 4 8 | 16 1 | 1 8 | 14 43 | 1 55 | 11 30 | 0 45 | 9 28 | 1 56 | 3 11 | 11 58 | 11 25 | 11 15 | 13 53 | | n.a. |
| F 8 | 22 49 | 4 33 | 3 52 | 19 52 | 3 42 | 22 47 | 1 22 | 27 50 | 4 8 | 15 56 | 1 8 | 14 43 | 1 55 | 11 30 | 0 45 | 9 28 | 1 56 | 3 11 | 11 57 | 11 23 | 11 14 | 13 55 | | n.a. |
| S 9 | 22 41 | 0 25 | 3 4 | 19 56 | 3 40 | 22 34 | 1 23 | 27 51 | 4 8 | 15 52 | 1 8 | 14 43 | 1 55 | 11 29 | 0 45 | 9 28 | 1 56 | 3 11 | 11 57 | 11 21 | 11 13 | 13 56 | | n.a. |
| S 10 | 22 34 | 3s39 | 2 9 | 20 2 | 3 36 | 22 20 | 1 24 | 27 50 | 4 8 | 15 48 | 1 8 | 14 43 | 1 55 | 11 28 | 0 45 | 9 28 | 1 56 | 3 11 | 11 57 | 11 20 | 11 12 | 13 57 | | n.a. |
| M11 | 22 26 | 7 29 | 1 9 | 20 9 | 3 30 | 22 6 | 1 24 | 27 50 | 4 8 | 15 43 | 1 8 | 14 43 | 1 54 | 11 27 | 0 45 | 9 28 | 1 56 | 3 11 | 11 57 | 11 20 | 11 11 | 13 59 | | n.a. |
| T 12 | 22 17 | 10 59 | 0 7 | 20 17 | 3 23 | 21 51 | 1 25 | 27 50 | 4 8 | 15 39 | 1 8 | 14 43 | 1 54 | 11 26 | 0 45 | 9 28 | 1 56 | 3 12 | 11 56 | 11 20 | 11 9 | 14 0 | | n.a. |
| W13 | 22 8 | 14 2 | 0n56 | 20 26 | 3 14 | 21 35 | 1 26 | 27 49 | 4 7 | 15 34 | 1 8 | 14 43 | 1 54 | 11 25 | 0 45 | 9 28 | 1 56 | 3 12 | 11 56 | 11 20 | 11 8 | 14 1 | | n.a. |
| T 14 | 21 59 | 16 30 | 1 56 | 20 36 | 3 5 | 21 19 | 1 26 | 27 48 | 4 7 | 15 30 | 1 8 | 14 43 | 1 53 | 11 24 | 0 45 | 9 28 | 1 56 | 3 12 | 11 56 | 11 19 | 11 7 | 14 3 | | n.a. |
| F 15 | 21 49 | 18 18 | 2 51 | 20 46 | 2 55 | 21 2 | 1 27 | 27 48 | 4 6 | 15 26 | 1 8 | 14 43 | 1 53 | 11 22 | 0 45 | 9 28 | 1 56 | 3 12 | 11 55 | 11 17 | 11 6 | 14 4 | | n.a. |
| S 16 | 21 39 | 19 17 | 3 39 | 20 57 | 2 44 | 20 44 | 1 27 | 27 47 | 4 5 | 15 21 | 1 8 | 14 43 | 1 53 | 11 21 | 0 45 | 9 28 | 1 56 | 3 12 | 11 55 | 11 15 | 11 5 | 14 5 | | n.a. |
| S 17 | 21 28 | 19 23 | 4 18 | 21 8 | 2 33 | 20 26 | 1 28 | 27 46 | 4 4 | 15 17 | 1 8 | 14 43 | 1 53 | 11 20 | 0 45 | 9 28 | 1 55 | 3 13 | 11 55 | 11 11 | 11 4 | 14 6 | | n.a. |
| M18 | 21 17 | 18 32 | 4 46 | 21 19 | 2 22 | 20 7 | 1 28 | 27 45 | 4 4 | 15 12 | 1 8 | 14 44 | 1 52 | 11 19 | 0 45 | 9 29 | 1 55 | 3 13 | 11 55 | 11 7 | 11 3 | 14 8 | | n.a. |
| T 19 | 21 6 | 16 43 | 4 59 | 21 30 | 2 10 | 19 48 | 1 28 | 27 44 | 4 3 | 15 7 | 1 8 | 14 44 | 1 52 | 11 18 | 0 45 | 9 29 | 1 55 | 3 13 | 11 54 | 11 2 | 11 1 | 14 9 | | n.a. |
| W20 | 20 54 | 14 1 | 4 57 | 21 42 | 1 59 | 19 28 | 1 28 | 27 42 | 4 2 | 15 3 | 1 8 | 14 44 | 1 52 | 11 17 | 0 45 | 9 29 | 1 55 | 3 13 | 11 54 | 10 57 | 11 0 | 14 10 | | n.a. |
| T 21 | 20 42 | 10 33 | 4 39 | 21 53 | 1 47 | 19 8 | 1 29 | 27 41 | 4 1 | 14 58 | 1 7 | 14 44 | 1 51 | 11 16 | 0 45 | 9 29 | 1 55 | 3 13 | 11 54 | 10 53 | 10 59 | 14 11 | | n.a. |
| F 22 | 20 29 | 6 30 | 4 4 | 22 4 | 1 35 | 18 47 | 1 29 | 27 40 | 4 0 | 14 53 | 1 7 | 14 45 | 1 51 | 11 15 | 0 45 | 9 29 | 1 55 | 3 14 | 11 53 | 10 49 | 10 58 | 14 13 | | n.a. |
| S 23 | 20 16 | 2 3 | 3 16 | 22 14 | 1 23 | 18 25 | 1 29 | 27 38 | 3 59 | 14 49 | 1 7 | 14 45 | 1 51 | 11 14 | 0 45 | 9 29 | 1 55 | 3 14 | 11 53 | 10 46 | 10 57 | 14 14 | | n.a. |
| S 24 | 20 3 | 2n32 | 2 15 | 22 24 | 1 12 | 18 3 | 1 29 | 27 37 | 3 57 | 14 44 | 1 7 | 14 46 | 1 51 | 11 13 | 0 45 | 9 30 | 1 55 | 3 14 | 11 53 | 10 45 | 10 56 | 14 15 | | n.a. |
| M25 | 19 49 | 7 1 | 1 6 | 22 33 | 1 1 | 17 41 | 1 28 | 27 35 | 3 56 | 14 39 | 1 7 | 14 46 | 1 50 | 11 12 | 0 45 | 9 30 | 1 55 | 3 14 | 11 53 | 10 44 | 10 55 | 14 16 | | n.a. |
| T 26 | 19 35 | 11 9 | 0s 8 | 22 42 | 0 50 | 17 18 | 1 28 | 27 34 | 3 55 | 14 35 | 1 7 | 14 47 | 1 50 | 11 10 | 0 44 | 9 30 | 1 55 | 3 15 | 11 52 | 10 44 | 10 53 | 14 18 | | n.a. |
| W27 | 19 21 | 14 41 | 1 22 | 22 50 | 0 39 | 16 54 | 1 28 | 27 32 | 3 54 | 14 30 | 1 7 | 14 47 | 1 50 | 11 9 | 0 44 | 9 30 | 1 55 | 3 15 | 11 52 | 10 44 | 10 52 | 14 19 | | n.a. |
| T 28 | 19 6 | 17 21 | 2 31 | 22 57 | 0 28 | 16 30 | 1 28 | 27 30 | 3 52 | 14 25 | 1 7 | 14 48 | 1 49 | 11 8 | 0 44 | 9 31 | 1 55 | 3 15 | 11 52 | 10 43 | 10 51 | 14 20 | | n.a. |
| F 29 | 18 51 | 18 57 | 3 30 | 23 3 | 0 18 | 16 6 | 1 27 | 27 29 | 3 51 | 14 20 | 1 7 | 14 48 | 1 49 | 11 7 | 0 44 | 9 31 | 1 55 | 3 16 | 11 51 | 10 42 | 10 50 | 14 21 | | n.a. |
| S 30 | 18 36 | 19 21 | 4 17 | 23 9 | 0 8 | 15 41 | 1 27 | 27 27 | 3 49 | 14 15 | 1 7 | 14 49 | 1 49 | 11 6 | 0 44 | 9 31 | 1 55 | 3 16 | 11 51 | 10 40 | 10 49 | 14 23 | | n.a. |
| S 31 | 18s20 | 18n33 | 4s48 | 23s13 | 0s 2 | 15s16 | 1s26 | 27n26 | 3n48 | 14s11 | 1s 7 | 14n50 | 1s49 | 11s 5 | 0s44 | 9n31 | 1s54 | 3n16 | 11s51 | 10s36 | 10s48 | 14s24 | | n.a. |

Julian Day Number = 1688550.5, Delta T = 03h11m42s
Ecliptic obliquity = 23°42'13, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°18'27, Lahiri = - 5°11'26 Julian Calendar 1 Jan. 90 BCE == Greg. Calendar 30 Dec. 091 BCE

The year -89 astronomical counting style corresponds to year 090 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 90 BCE
# geocentric

## FEBRUARY 90 BCE (-89) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 8 31 4 | 9♒31'45 | 23♋51 | 12♉46 | 24♒32 | 25°R29 | 25♒51 | 15♉10 | 3♓24 | 29♈12 | 8♉32 | 27°R 3 | 27♎43 | 12♏ 7 | n.a. | M 1 |
| T 2 | 8 35 0 | 10°31'51 | 7♌38 | 13°54 | 25°46 | 25♊25 | 26° 5 | 15°12 | 3°27 | 29°13 | 8°32 | 26♎51 | 27°40 | 12°13 | n.a. | T 2 |
| W 3 | 8 38 57 | 11°31'55 | 21° 8 | 15° 4 | 27° 1 | 25°22 | 26°19 | 15°13 | 3°31 | 29°13 | 8°32 | 26°39 | 27°36 | 12°20 | n.a. | W 3 |
| T 4 | 8 42 54 | 12°31'57 | 4♍20 | 16°16 | 28°15 | 25°20 | 26°34 | 15°15 | 3°34 | 29°14 | 8°32 | 26°28 | 27°33 | 12°27 | n.a. | T 4 |
| F 5 | 8 46 50 | 13°31'57 | 17°11 | 17°30 | 29°30 | 25°18 | 26°48 | 15°17 | 3°37 | 29°15 | 8°32 | 26°20 | 27°30 | 12°33 | n.a. | F 5 |
| S 6 | 8 50 47 | 14°31'55 | 29°42 | 18°46 | 0♓44 | 25°17 | 27° 2 | 15°19 | 3°40 | 29°16 | 8°33 | 26°14 | 27°27 | 12°40 | n.a. | S 6 |
| S 7 | 8 54 43 | 15°31'51 | 11♎56 | 20° 3 | 1°59 | 25°D17 | 27°17 | 15°21 | 3°44 | 29°17 | 8°33 | 26°11 | 27°24 | 12°47 | n.a. | S 7 |
| M 8 | 8 58 40 | 16°31'45 | 23°57 | 21°22 | 3°13 | 25°18 | 27°31 | 15°24 | 3°47 | 29°18 | 8°33 | 26°D10 | 27°21 | 12°53 | n.a. | M 8 |
| T 9 | 9 2 36 | 17°31'38 | 5♏49 | 22°43 | 4°28 | 25°19 | 27°45 | 15°26 | 3°50 | 29°19 | 8°33 | 26°10 | 27°17 | 13° 0 | n.a. | T 9 |
| W10 | 9 6 33 | 18°31'29 | 17°37 | 24° 5 | 5°42 | 25°21 | 28° 0 | 15°28 | 3°54 | 29°19 | 8°34 | 26°R11 | 27°14 | 13° 7 | n.a. | W10 |
| T 11 | 9 10 29 | 19°31'18 | 29°27 | 25°29 | 6°56 | 25°24 | 28°14 | 15°31 | 3°57 | 29°20 | 8°34 | 26°10 | 27°11 | 13°13 | n.a. | T 11 |
| F 12 | 9 14 26 | 20°31'06 | 11♐25 | 26°54 | 8°11 | 25°27 | 28°28 | 15°34 | 4° 0 | 29°21 | 8°35 | 26° 8 | 27° 8 | 13°20 | n.a. | F 12 |
| S 13 | 9 18 23 | 21°30'51 | 23°34 | 28°20 | 9°25 | 25°32 | 28°43 | 15°36 | 4° 4 | 29°23 | 8°35 | 26° 3 | 27° 5 | 13°27 | n.a. | S 13 |
| S 14 | 9 22 19 | 22°30'35 | 6♑ 1 | 29°48 | 10°39 | 25°36 | 28°57 | 15°39 | 4° 7 | 29°24 | 8°35 | 25°56 | 27° 1 | 13°33 | n.a. | S 14 |
| M15 | 9 26 16 | 23°30'17 | 18°46 | 1♒17 | 11°53 | 25°42 | 29°12 | 15°42 | 4°10 | 29°25 | 8°36 | 25°47 | 26°58 | 13°40 | n.a. | M15 |
| T 16 | 9 30 12 | 24°29'57 | 1♒52 | 2°48 | 13° 7 | 25°48 | 29°26 | 15°45 | 4°14 | 29°26 | 8°36 | 25°37 | 26°55 | 13°47 | n.a. | T 16 |
| W17 | 9 34 9 | 25°29'35 | 15°19 | 4°19 | 14°22 | 25°55 | 29°41 | 15°48 | 4°17 | 29°27 | 8°37 | 25°26 | 26°52 | 13°53 | n.a. | W17 |
| T 18 | 9 38 5 | 26°29'10 | 29° 4 | 5°53 | 15°36 | 26° 2 | 29°55 | 15°52 | 4°21 | 29°28 | 8°37 | 25°16 | 26°49 | 14° 0 | n.a. | T 18 |
| F 19 | 9 42 2 | 27°28'44 | 13♓ 4 | 7°27 | 16°50 | 26°10 | 0♓10 | 15°55 | 4°24 | 29°30 | 8°38 | 25° 8 | 26°46 | 14° 7 | n.a. | F 19 |
| S 20 | 9 45 58 | 28°28'15 | 27°14 | 9° 3 | 18° 4 | 26°19 | 0°24 | 15°59 | 4°27 | 29°31 | 8°38 | 25° 3 | 26°42 | 14°13 | n.a. | S 20 |
| S 21 | 9 49 55 | 29°27'44 | 11♈29 | 10°40 | 19°18 | 26°28 | 0°39 | 16° 2 | 4°31 | 29°32 | 8°39 | 25° 0 | 26°39 | 14°20 | n.a. | S 21 |
| M22 | 9 53 51 | 0♓27'11 | 25°46 | 12°18 | 20°32 | 26°38 | 0°53 | 16° 6 | 4°34 | 29°33 | 8°39 | 24°D59 | 26°36 | 14°27 | n.a. | M22 |
| T 23 | 9 57 48 | 1°26'35 | 10♉ 1 | 13°57 | 21°46 | 26°48 | 1° 7 | 16°10 | 4°38 | 29°35 | 8°40 | 25° 0 | 26°33 | 14°33 | n.a. | T 23 |
| W24 | 10 1 45 | 2°25'57 | 24°13 | 15°38 | 23° 0 | 26°59 | 1°22 | 16°13 | 4°41 | 29°36 | 8°41 | 25° 0 | 26°30 | 14°40 | n.a. | W24 |
| T 25 | 10 5 41 | 3°25'17 | 8♊18 | 17°21 | 24°14 | 27°11 | 1°36 | 16°17 | 4°45 | 29°38 | 8°41 | 25°R 1 | 26°26 | 14°46 | n.a. | T 25 |
| F 26 | 10 9 38 | 4°24'34 | 22°17 | 19° 4 | 25°28 | 27°23 | 1°51 | 16°21 | 4°48 | 29°39 | 8°42 | 24°59 | 26°23 | 14°53 | n.a. | F 26 |
| S 27 | 10 13 34 | 5°23'49 | 6♋ 9 | 20°49 | 26°41 | 27°35 | 2° 5 | 16°26 | 4°51 | 29°40 | 8°43 | 24°56 | 26°20 | 15° 0 | n.a. | S 27 |
| S 28 | 10 17 31 | 6♓23'01 | 19♋52 | 22♒35 | 27♓55 | 27♊48 | 2♓20 | 16♉30 | 4♓55 | 29♈42 | 8♉43 | 24♎50 | 26♎17 | 15♏ 6 | n.a. | S 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 18s 4 | 16n38 | 5s 1 | 23s16 | 0s12 | 14s50 | 1s26 | 27n24 | 3n47 | 14s 6 | 1s 7 | 14n50 | 1s48 | 11s 3 | 0s44 | 9n32 | 1s54 | 3n17 | 11s51 | 10s32 | 10s46 | 14s25 | | n.a. |
| T 2 | 17 47 | 13 48 | 4 56 | 23 19 | 0 21 | 14 24 | 1 25 | 27 22 | 3 45 | 14 1 | 1 7 | 14 51 | 1 48 | 11 2 | 0 44 | 9 32 | 1 54 | 3 17 | 11 50 | 10 28 | 10 45 | 14 26 | | n.a. |
| W 3 | 17 31 | 10 17 | 4 34 | 23 20 | 0 30 | 13 58 | 1 24 | 27 21 | 3 44 | 13 56 | 1 7 | 14 52 | 1 48 | 11 1 | 0 44 | 9 32 | 1 54 | 3 17 | 11 50 | 10 23 | 10 44 | 14 28 | | n.a. |
| T 4 | 17 14 | 6 20 | 3 59 | 23 20 | 0 38 | 13 31 | 1 24 | 27 19 | 3 42 | 13 51 | 1 7 | 14 53 | 1 48 | 11 0 | 0 44 | 9 33 | 1 54 | 3 18 | 11 50 | 10 19 | 10 43 | 14 29 | | n.a. |
| F 5 | 16 57 | 2 11 | 3 11 | 23 19 | 0 46 | 13 4 | 1 23 | 27 18 | 3 41 | 13 46 | 1 7 | 14 53 | 1 47 | 10 59 | 0 44 | 9 33 | 1 54 | 3 18 | 11 49 | 10 16 | 10 42 | 14 30 | | n.a. |
| S 6 | 16 39 | 1s57 | 2 16 | 23 16 | 0 54 | 12 36 | 1 22 | 27 16 | 3 39 | 13 41 | 1 7 | 14 54 | 1 47 | 10 57 | 0 44 | 9 33 | 1 54 | 3 18 | 11 49 | 10 14 | 10 41 | 14 31 | | n.a. |
| S 7 | 16 21 | 5 55 | 1 15 | 23 12 | 1 2 | 12 9 | 1 21 | 27 14 | 3 37 | 13 36 | 1 7 | 14 55 | 1 47 | 10 56 | 0 44 | 9 34 | 1 54 | 3 19 | 11 49 | 10 13 | 10 40 | 14 33 | | n.a. |
| M 8 | 16 3 | 9 34 | 0 12 | 23 7 | 1 9 | 11 40 | 1 20 | 27 13 | 3 36 | 13 31 | 1 7 | 14 56 | 1 46 | 10 55 | 0 44 | 9 34 | 1 54 | 3 19 | 11 49 | 10 13 | 10 38 | 14 34 | | n.a. |
| T 9 | 15 45 | 12 48 | 0n51 | 23 1 | 1 16 | 11 12 | 1 19 | 27 11 | 3 34 | 13 26 | 1 7 | 14 57 | 1 46 | 10 54 | 0 44 | 9 35 | 1 54 | 3 19 | 11 48 | 10 13 | 10 37 | 14 35 | | n.a. |
| W10 | 15 26 | 15 29 | 1 52 | 22 53 | 1 22 | 10 43 | 1 18 | 27 10 | 3 33 | 13 21 | 1 7 | 14 58 | 1 46 | 10 53 | 0 44 | 9 35 | 1 54 | 3 20 | 11 48 | 10 13 | 10 36 | 14 36 | | n.a. |
| T 11 | 15 8 | 17 32 | 2 48 | 22 44 | 1 28 | 10 14 | 1 16 | 27 8 | 3 31 | 13 16 | 1 7 | 14 59 | 1 46 | 10 51 | 0 44 | 9 35 | 1 54 | 3 20 | 11 48 | 10 13 | 10 35 | 14 37 | | n.a. |
| F 12 | 14 49 | 18 49 | 3 37 | 22 33 | 1 34 | 9 45 | 1 15 | 27 7 | 3 29 | 13 11 | 1 7 | 15 0 | 1 45 | 10 50 | 0 44 | 9 36 | 1 54 | 3 21 | 11 47 | 10 12 | 10 34 | 14 39 | | n.a. |
| S 13 | 14 29 | 19 16 | 4 17 | 22 21 | 1 39 | 9 16 | 1 14 | 27 5 | 3 28 | 13 6 | 1 7 | 15 1 | 1 45 | 10 49 | 0 44 | 9 36 | 1 54 | 3 21 | 11 47 | 10 10 | 10 33 | 14 40 | | n.a. |
| S 14 | 14 10 | 18 48 | 4 46 | 22 7 | 1 44 | 8 46 | 1 12 | 27 4 | 3 26 | 13 1 | 1 7 | 15 2 | 1 45 | 10 48 | 0 44 | 9 37 | 1 54 | 3 21 | 11 47 | 10 8 | 10 31 | 14 41 | | n.a. |
| M15 | 13 50 | 17 23 | 5 2 | 21 52 | 1 49 | 8 16 | 1 11 | 27 2 | 3 25 | 12 56 | 1 7 | 15 3 | 1 45 | 10 46 | 0 44 | 9 37 | 1 53 | 3 22 | 11 47 | 10 4 | 10 30 | 14 42 | | n.a. |
| T 16 | 13 30 | 15 3 | 5 2 | 21 35 | 1 53 | 7 46 | 1 9 | 27 1 | 3 23 | 12 51 | 1 7 | 15 4 | 1 44 | 10 45 | 0 44 | 9 38 | 1 53 | 3 22 | 11 46 | 10 1 | 10 29 | 14 43 | | n.a. |
| W17 | 13 10 | 11 52 | 4 46 | 21 17 | 1 57 | 7 16 | 1 8 | 27 0 | 3 21 | 12 45 | 1 7 | 15 6 | 1 44 | 10 44 | 0 44 | 9 38 | 1 53 | 3 23 | 11 46 | 9 57 | 10 28 | 14 45 | | n.a. |
| T 18 | 12 49 | 7 58 | 4 13 | 20 57 | 2 1 | 6 45 | 1 6 | 26 58 | 3 20 | 12 40 | 1 7 | 15 7 | 1 44 | 10 43 | 0 44 | 9 39 | 1 53 | 3 23 | 11 46 | 9 53 | 10 27 | 14 46 | | n.a. |
| F 19 | 12 29 | 3 34 | 3 25 | 20 36 | 2 4 | 6 14 | 1 4 | 26 57 | 3 18 | 12 35 | 1 7 | 15 8 | 1 43 | 10 41 | 0 44 | 9 39 | 1 53 | 3 23 | 11 45 | 9 50 | 10 26 | 14 47 | | n.a. |
| S 20 | 12 8 | 1n 4 | 2 23 | 20 13 | 2 6 | 5 44 | 1 2 | 26 56 | 3 17 | 12 30 | 1 7 | 15 9 | 1 43 | 10 40 | 0 44 | 9 40 | 1 53 | 3 24 | 11 45 | 9 48 | 10 25 | 14 48 | | n.a. |
| S 21 | 11 47 | 5 42 | 1 12 | 19 49 | 2 8 | 5 13 | 1 1 | 26 54 | 3 15 | 12 25 | 1 7 | 15 11 | 1 43 | 10 39 | 0 44 | 9 40 | 1 53 | 3 24 | 11 45 | 9 47 | 10 23 | 14 49 | | n.a. |
| M22 | 11 26 | 10 0 | 0s 4 | 19 22 | 2 10 | 4 41 | 0 59 | 26 53 | 3 13 | 12 20 | 1 7 | 15 12 | 1 43 | 10 37 | 0 44 | 9 41 | 1 53 | 3 25 | 11 45 | 9 47 | 10 22 | 14 50 | | n.a. |
| T 23 | 11 5 | 13 43 | 1 20 | 18 55 | 2 11 | 4 10 | 0 57 | 26 52 | 3 12 | 12 15 | 1 7 | 15 13 | 1 42 | 10 36 | 0 44 | 9 41 | 1 53 | 3 25 | 11 44 | 9 47 | 10 21 | 14 52 | | n.a. |
| W24 | 10 43 | 16 36 | 2 31 | 18 25 | 2 12 | 3 39 | 0 55 | 26 50 | 3 10 | 12 9 | 1 7 | 15 15 | 1 42 | 10 35 | 0 44 | 9 42 | 1 53 | 3 26 | 11 44 | 9 47 | 10 20 | 14 53 | | n.a. |
| T 25 | 10 22 | 18 27 | 3 32 | 17 54 | 2 12 | 3 7 | 0 53 | 26 49 | 3 9 | 12 4 | 1 7 | 15 16 | 1 42 | 10 34 | 0 44 | 9 42 | 1 53 | 3 26 | 11 44 | 9 47 | 10 19 | 14 54 | | n.a. |
| F 26 | 10 0 | 19 10 | 4 19 | 17 22 | 2 12 | 2 36 | 0 51 | 26 48 | 3 7 | 11 59 | 1 7 | 15 17 | 1 42 | 10 32 | 0 44 | 9 43 | 1 53 | 3 26 | 11 44 | 9 47 | 10 18 | 14 55 | | n.a. |
| S 27 | 9 38 | 18 42 | 4 51 | 16 47 | 2 12 | 2 4 | 0 49 | 26 46 | 3 5 | 11 54 | 1 8 | 15 19 | 1 41 | 10 31 | 0 44 | 9 43 | 1 53 | 3 27 | 11 43 | 9 45 | 10 16 | 14 56 | | n.a. |
| S 28 | 9s16 | 17n10 | 5s 7 | 16s11 | 2s10 | 1s33 | 0s46 | 26n45 | 3n 4 | 11s49 | 1s 8 | 15n20 | 1s41 | 10s30 | 0s44 | 9n44 | 1s53 | 3n27 | 11s43 | 9s43 | 10s15 | 14s57 | | n.a. |

Julian Day Number = 1688581.5, Delta T = 03h11m41s
Ecliptic obliquity = 23°42'13, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°18'23, Lahiri = - 5°11'22 Julian Calendar 1 Feb. 90 BCE == Greg. Calendar 30 Jan. 090 BCE


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# ASTRODIENST EPHEMERIS for the year 90 BCE
# geocentric

## MARCH 90 BCE (-89) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 10 21 27 | 7♓22'11 | 3♌25 | 24♒23 | 29♓ 9 | 28♊ 2 | 2♓34 | 16♉34 | 4♓58 | 29♈43 | 8♉44 | 24°R43 | 26♎14 | 15♏13 | n.a. | M 1 |
| T 2 | 10 25 24 | 8°21'18 | 16°45 | 26°12 | 0♈23 | 28°16 | 2°49 | 16°38 | 5° 2 | 29°45 | 8°45 | 24♎35 | 26°11 | 15°20 | n.a. | T 2 |
| W 3 | 10 29 20 | 9°20'24 | 29°52 | 28° 2 | 1°36 | 28°31 | 3° 3 | 16°43 | 5° 5 | 29°46 | 8°46 | 24°27 | 26° 7 | 15°26 | n.a. | W 3 |
| T 4 | 10 33 17 | 10°19'27 | 12♍44 | 29°54 | 2°50 | 28°46 | 3°17 | 16°48 | 5° 9 | 29°48 | 8°46 | 24°20 | 26° 4 | 15°33 | n.a. | T 4 |
| F 5 | 10 37 14 | 11°18'28 | 25°21 | 1♓47 | 4° 3 | 29° 1 | 3°32 | 16°52 | 5°12 | 29°50 | 8°47 | 24°14 | 26° 1 | 15°40 | n.a. | F 5 |
| S 6 | 10 41 10 | 12°17'27 | 7♎43 | 3°41 | 5°17 | 29°17 | 3°46 | 16°57 | 5°15 | 29°51 | 8°48 | 24°11 | 25°58 | 15°46 | n.a. | S 6 |
| S 7 | 10 45 7 | 13°16'23 | 19°52 | 5°37 | 6°30 | 29°33 | 4° 1 | 17° 2 | 5°19 | 29°53 | 8°49 | 24°D 9 | 25°55 | 15°53 | n.a. | S 7 |
| M 8 | 10 49 3 | 14°15'18 | 1♏51 | 7°34 | 7°44 | 29°50 | 4°15 | 17° 7 | 5°22 | 29°55 | 8°50 | 24° 9 | 25°52 | 16° 0 | n.a. | M 8 |
| T 9 | 10 53 0 | 15°14'11 | 13°42 | 9°33 | 8°57 | 0♋ 7 | 4°29 | 17°12 | 5°26 | 29°56 | 8°51 | 24°11 | 25°48 | 16° 6 | n.a. | T 9 |
| W10 | 10 56 56 | 16°13'03 | 25°31 | 11°33 | 10°11 | 0°25 | 4°44 | 17°17 | 5°29 | 29°58 | 8°51 | 24°12 | 25°45 | 16°13 | n.a. | W10 |
| T 11 | 11 0 53 | 17°11'52 | 7♐21 | 13°34 | 11°24 | 0°43 | 4°58 | 17°22 | 5°32 | 29°59 | 8°52 | 24°14 | 25°42 | 16°20 | n.a. | T 11 |
| F 12 | 11 4 49 | 18°10'39 | 19°19 | 15°36 | 12°37 | 1° 1 | 5°12 | 17°27 | 5°36 | 0♉ 2 | 8°53 | 24°R14 | 25°39 | 16°26 | n.a. | F 12 |
| S 13 | 11 8 46 | 19° 9'25 | 1♑29 | 17°40 | 13°50 | 1°20 | 5°26 | 17°32 | 5°39 | 0° 3 | 8°54 | 24°14 | 25°36 | 16°33 | n.a. | S 13 |
| S 14 | 11 12 42 | 20° 8'09 | 13°55 | 19°44 | 15° 4 | 1°39 | 5°41 | 17°38 | 5°42 | 0° 5 | 8°55 | 24°11 | 25°32 | 16°40 | n.a. | S 14 |
| M15 | 11 16 39 | 21° 6'51 | 26°42 | 21°49 | 16°17 | 1°59 | 5°55 | 17°43 | 5°46 | 0° 7 | 8°56 | 24° 8 | 25°29 | 16°46 | n.a. | M15 |
| T 16 | 11 20 36 | 22° 5'32 | 9♒53 | 23°55 | 17°30 | 2°19 | 6° 9 | 17°49 | 5°49 | 0° 9 | 8°57 | 24° 3 | 25°26 | 16°53 | n.a. | T 16 |
| W17 | 11 24 32 | 23° 4'10 | 23°28 | 26° 2 | 18°43 | 2°39 | 6°23 | 17°54 | 5°52 | 0°11 | 8°58 | 23°58 | 25°23 | 17° 0 | n.a. | W17 |
| T 18 | 11 28 29 | 24° 2'46 | 7♓26 | 28° 8 | 19°56 | 3° 0 | 6°37 | 18° 0 | 5°56 | 0°12 | 8°59 | 23°53 | 25°20 | 17° 6 | n.a. | T 18 |
| F 19 | 11 32 25 | 25° 1'21 | 21°44 | 0♈15 | 21° 9 | 3°21 | 6°51 | 18° 6 | 5°59 | 0°14 | 9° 0 | 23°50 | 25°17 | 17°13 | n.a. | F 19 |
| S 20 | 11 36 22 | 25°59'54 | 6♈17 | 2°21 | 22°22 | 3°42 | 7° 6 | 18°11 | 6° 2 | 0°16 | 9° 1 | 23°47 | 25°13 | 17°19 | n.a. | S 20 |
| S 21 | 11 40 18 | 26°58'24 | 20°58 | 4°27 | 23°35 | 4° 4 | 7°20 | 18°17 | 6° 5 | 0°18 | 9° 2 | 23°D46 | 25°10 | 17°26 | n.a. | S 21 |
| M22 | 11 44 15 | 27°56'52 | 5♉41 | 6°33 | 24°48 | 4°26 | 7°34 | 18°23 | 6° 9 | 0°20 | 9° 3 | 23°47 | 25° 7 | 17°33 | n.a. | M22 |
| T 23 | 11 48 11 | 28°55'19 | 20°19 | 8°37 | 26° 1 | 4°48 | 7°48 | 18°29 | 6°12 | 0°22 | 9° 4 | 23°48 | 25° 4 | 17°39 | n.a. | T 23 |
| W24 | 11 52 8 | 29°53'43 | 4♊47 | 10°39 | 27°13 | 5°11 | 8° 1 | 18°35 | 6°15 | 0°24 | 9° 5 | 23°49 | 25° 1 | 17°46 | n.a. | W24 |
| T 25 | 11 56 5 | 0♈52'05 | 19° 2 | 12°40 | 28°26 | 5°34 | 8°15 | 18°41 | 6°18 | 0°26 | 9° 7 | 23°50 | 24°57 | 17°53 | n.a. | T 25 |
| F 26 | 12 0 1 | 1°50'25 | 3♋ 3 | 14°39 | 29°39 | 5°57 | 8°29 | 18°48 | 6°22 | 0°28 | 9° 8 | 23°R51 | 24°54 | 17°59 | n.a. | F 26 |
| S 27 | 12 3 58 | 2°48'42 | 16°47 | 16°35 | 0♉51 | 6°20 | 8°43 | 18°54 | 6°25 | 0°30 | 9° 9 | 23°50 | 24°51 | 18° 6 | n.a. | S 27 |
| S 28 | 12 7 54 | 3°46'57 | 0♌16 | 18°28 | 2° 4 | 6°44 | 8°57 | 19° 0 | 6°28 | 0°32 | 9°10 | 23°49 | 24°48 | 18°13 | n.a. | S 28 |
| M29 | 12 11 51 | 4°45'11 | 13°29 | 20°19 | 3°16 | 7° 8 | 9°11 | 19° 7 | 6°31 | 0°34 | 9°11 | 23°46 | 24°45 | 18°19 | n.a. | M29 |
| T 30 | 12 15 47 | 5°43'22 | 26°27 | 22° 6 | 4°29 | 7°32 | 9°24 | 19°13 | 6°34 | 0°36 | 9°12 | 23°44 | 24°42 | 18°26 | n.a. | T 30 |
| W31 | 12 19 44 | 6♈41'31 | 9♍11 | 23♈50 | 5♉41 | 7♋57 | 9♓38 | 19♉19 | 6♓37 | 0♉38 | 9♉13 | 23♎41 | 24♎38 | 18♏33 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| M 1 | 8s54 | 14n41 | 5s 4 | 15s34 | 2s 9 | 1s 1 | 0s44 | 26n44 | 3n 2 | 11s43 | 1s 8 | 15n22 | 1s41 | 10s29 | 0s44 | 9n44 | 1s53 | 3n28 | 11s43 | 9s40 | 10s14 | 14s59 | | | n.a. |
| T 2 | 8 32 | 11 27 | 4 45 | 14 54 | 2 7 | 0 29 | 0 42 | 26 42 | 3 1 | 11 38 | 1 8 | 15 23 | 1 41 | 10 27 | 0 44 | 9 45 | 1 53 | 3 28 | 11 43 | 9 37 | 10 13 | 15 0 | | | n.a. |
| W 3 | 8 9 | 7 43 | 4 11 | 14 14 | 2 4 | 0n 2 | 0 40 | 26 41 | 2 59 | 11 33 | 1 8 | 15 25 | 1 41 | 10 26 | 0 44 | 9 46 | 1 53 | 3 29 | 11 42 | 9 35 | 10 12 | 15 1 | | | n.a. |
| T 4 | 7 47 | 3 42 | 3 25 | 13 31 | 2 1 | 0 34 | 0 37 | 26 40 | 2 58 | 11 28 | 1 8 | 15 26 | 1 40 | 10 25 | 0 44 | 9 46 | 1 53 | 3 29 | 11 42 | 9 32 | 10 11 | 15 2 | | | n.a. |
| F 5 | 7 24 | 0s25 | 2 30 | 12 47 | 1 57 | 1 6 | 0 35 | 26 38 | 2 56 | 11 22 | 1 8 | 15 28 | 1 40 | 10 24 | 0 44 | 9 47 | 1 52 | 3 30 | 11 42 | 9 30 | 10 9 | 15 3 | | | n.a. |
| S 6 | 7 1 | 4 27 | 1 28 | 12 1 | 1 53 | 1 37 | 0 33 | 26 37 | 2 55 | 11 17 | 1 8 | 15 29 | 1 40 | 10 22 | 0 44 | 9 48 | 1 52 | 3 30 | 11 42 | 9 29 | 10 8 | 15 4 | | | n.a. |
| S 7 | 6 39 | 8 13 | 0 23 | 11 14 | 1 48 | 2 9 | 0 30 | 26 35 | 2 53 | 11 12 | 1 8 | 15 31 | 1 40 | 10 21 | 0 44 | 9 48 | 1 52 | 3 31 | 11 41 | 9 28 | 10 7 | 15 5 | | | n.a. |
| M 8 | 6 16 | 11 36 | 0n42 | 10 25 | 1 43 | 2 41 | 0 28 | 26 34 | 2 52 | 11 7 | 1 8 | 15 33 | 1 39 | 10 20 | 0 44 | 9 49 | 1 52 | 3 31 | 11 41 | 9 28 | 10 6 | 15 6 | | | n.a. |
| T 9 | 5 53 | 14 28 | 1 45 | 9 34 | 1 37 | 3 12 | 0 25 | 26 33 | 2 50 | 11 1 | 1 8 | 15 34 | 1 39 | 10 19 | 0 44 | 9 49 | 1 52 | 3 32 | 11 41 | 9 29 | 10 5 | 15 8 | | | n.a. |
| W10 | 5 30 | 16 43 | 2 43 | 8 42 | 1 31 | 3 44 | 0 22 | 26 31 | 2 49 | 10 56 | 1 8 | 15 36 | 1 39 | 10 17 | 0 44 | 9 50 | 1 52 | 3 32 | 11 41 | 9 29 | 10 4 | 15 9 | | | n.a. |
| T 11 | 5 7 | 18 16 | 3 34 | 7 49 | 1 24 | 4 15 | 0 20 | 26 29 | 2 47 | 10 51 | 1 8 | 15 38 | 1 39 | 10 16 | 0 44 | 9 51 | 1 52 | 3 33 | 11 40 | 9 30 | 10 2 | 15 10 | | | n.a. |
| F 12 | 4 43 | 19 0 | 4 17 | 6 55 | 1 16 | 4 47 | 0 17 | 26 28 | 2 46 | 10 46 | 1 8 | 15 39 | 1 38 | 10 15 | 0 44 | 9 51 | 1 52 | 3 33 | 11 40 | 9 30 | 10 1 | 15 11 | | | n.a. |
| S 13 | 4 20 | 18 53 | 4 48 | 5 59 | 1 8 | 5 18 | 0 15 | 26 26 | 2 45 | 10 41 | 1 8 | 15 41 | 1 38 | 10 14 | 0 44 | 9 52 | 1 52 | 3 34 | 11 40 | 9 30 | 10 0 | 15 12 | | | n.a. |
| S 14 | 3 57 | 17 52 | 5 8 | 5 2 | 1 0 | 5 49 | 0 12 | 26 25 | 2 43 | 10 35 | 1 8 | 15 43 | 1 38 | 10 12 | 0 44 | 9 53 | 1 52 | 3 34 | 11 40 | 9 29 | 9 59 | 15 13 | | | n.a. |
| M15 | 3 34 | 15 56 | 5 12 | 4 4 | 0 51 | 6 20 | 0 9 | 26 23 | 2 42 | 10 30 | 1 8 | 15 44 | 1 38 | 10 11 | 0 44 | 9 53 | 1 52 | 3 35 | 11 40 | 9 27 | 9 58 | 15 14 | | | n.a. |
| T 16 | 3 10 | 13 8 | 5 1 | 3 5 | 0 42 | 6 51 | 0 6 | 26 21 | 2 40 | 10 25 | 1 9 | 15 46 | 1 38 | 10 10 | 0 44 | 9 54 | 1 52 | 3 35 | 11 39 | 9 26 | 9 57 | 15 15 | | | n.a. |
| W17 | 2 47 | 9 34 | 4 32 | 2 5 | 0 32 | 7 21 | 0 4 | 26 19 | 2 39 | 10 20 | 1 9 | 15 48 | 1 37 | 10 9 | 0 44 | 9 55 | 1 52 | 3 36 | 11 39 | 9 24 | 9 55 | 15 17 | | | n.a. |
| T 18 | 2 23 | 5 22 | 3 47 | 1 5 | 0 22 | 7 52 | 0 1 | 26 18 | 2 38 | 10 14 | 1 9 | 15 50 | 1 37 | 10 7 | 0 44 | 9 56 | 1 52 | 3 36 | 11 39 | 9 22 | 9 54 | 15 18 | | | n.a. |
| F 19 | 2 0 | 0 46 | 2 47 | 0 4 | 0 11 | 8 22 | 0n 2 | 26 16 | 2 36 | 10 9 | 1 9 | 15 51 | 1 37 | 10 6 | 0 44 | 9 56 | 1 52 | 3 37 | 11 39 | 9 21 | 9 53 | 15 19 | | | n.a. |
| S 20 | 1 36 | 3n58 | 1 35 | 0n56 | 0 1 | 8 52 | 0 5 | 26 14 | 2 35 | 10 4 | 1 9 | 15 53 | 1 37 | 10 5 | 0 44 | 9 57 | 1 52 | 3 37 | 11 38 | 9 20 | 9 52 | 15 20 | | | n.a. |
| S 21 | 1 13 | 8 30 | 0 15 | 1 57 | 0n10 | 9 22 | 0 8 | 26 12 | 2 33 | 9 59 | 1 9 | 15 55 | 1 37 | 10 4 | 0 44 | 9 58 | 1 52 | 3 38 | 11 38 | 9 20 | 9 51 | 15 21 | | | n.a. |
| M22 | 0 49 | 12 32 | 1s 5 | 2 57 | 0 21 | 9 52 | 0 10 | 26 10 | 2 32 | 9 54 | 1 9 | 15 57 | 1 36 | 10 3 | 0 44 | 9 58 | 1 52 | 3 38 | 11 38 | 9 20 | 9 50 | 15 22 | | | n.a. |
| T 23 | 0 26 | 15 45 | 2 21 | 3 57 | 0 33 | 10 22 | 0 13 | 26 8 | 2 31 | 9 48 | 1 9 | 15 59 | 1 36 | 10 1 | 0 44 | 9 59 | 1 52 | 3 39 | 11 38 | 9 20 | 9 48 | 15 23 | | | n.a. |
| W24 | 0 3 | 17 56 | 3 27 | 4 56 | 0 44 | 10 51 | 0 16 | 26 5 | 2 29 | 9 43 | 1 9 | 16 1 | 1 36 | 10 0 | 0 44 | 10 0 | 1 52 | 3 39 | 11 38 | 9 21 | 9 47 | 15 24 | | | n.a. |
| T 25 | 0n21 | 18 56 | 4 19 | 5 54 | 0 55 | 11 20 | 0 19 | 26 3 | 2 28 | 9 38 | 1 9 | 16 3 | 1 36 | 9 59 | 0 44 | 10 1 | 1 52 | 3 40 | 11 37 | 9 21 | 9 46 | 15 25 | | | n.a. |
| F 26 | 0 44 | 18 45 | 4 55 | 6 50 | 1 6 | 11 49 | 0 22 | 26 1 | 2 27 | 9 33 | 1 9 | 16 4 | 1 36 | 9 58 | 0 44 | 10 1 | 1 52 | 3 40 | 11 37 | 9 21 | 9 45 | 15 26 | | | n.a. |
| S 27 | 1 8 | 17 28 | 5 13 | 7 45 | 1 16 | 12 17 | 0 25 | 25 58 | 2 26 | 9 28 | 1 10 | 16 6 | 1 35 | 9 57 | 0 44 | 10 2 | 1 52 | 3 41 | 11 37 | 9 21 | 9 44 | 15 27 | | | n.a. |
| S 28 | 1 31 | 15 13 | 5 13 | 8 39 | 1 27 | 12 45 | 0 28 | 25 56 | 2 24 | 9 23 | 1 10 | 16 8 | 1 35 | 9 55 | 0 44 | 10 3 | 1 52 | 3 41 | 11 37 | 9 20 | 9 42 | 15 28 | | | n.a. |
| M29 | 1 55 | 12 13 | 4 57 | 9 30 | 1 36 | 13 13 | 0 31 | 25 53 | 2 23 | 9 17 | 1 10 | 16 10 | 1 35 | 9 54 | 0 44 | 10 4 | 1 51 | 3 42 | 11 37 | 9 20 | 9 41 | 15 30 | | | n.a. |
| T 30 | 2 18 | 8 40 | 4 26 | 10 20 | 1 46 | 13 41 | 0 33 | 25 51 | 2 22 | 9 12 | 1 10 | 16 12 | 1 35 | 9 53 | 0 44 | 10 4 | 1 51 | 3 42 | 11 37 | 9 19 | 9 40 | 15 31 | | | n.a. |
| W31 | 2n41 | 4n47 | 3s42 | 11n 7 | 1n55 | 14n 8 | 0n36 | 25n48 | 2n21 | 9s 7 | 1s10 | 16n14 | 1s35 | 9s52 | 0s44 | 10n 5 | 1s51 | 3n43 | 11s36 | 9s18 | 9s39 | 15s32 | | | n.a. |

Julian Day Number = 1688609.5, Delta T = 03h11m40s
Ecliptic obliquity = 23°42'14, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°18'19, Lahiri = - 5°11'18 Julian Calendar 1 March 90 BCE == Greg. Calendar 27 Feb. 090 BCE

The year -89 astronomical counting style corresponds to year 090 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 90 BCE
# geocentric

## APRIL 90 BCE (-89) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 23 40 | 7♈39'38 | 21♍43 | 25♈31 | 6♉54 | 8♋22 | 9♓51 | 19♉26 | 6♓40 | 0♉41 | 9♉15 | 23°R39 | 24♎35 | 18♏39 | n.a. | T 1 |
| F 2 | 12 27 37 | 8°37'43 | 4♎ 3 | 27° 8 | 8° 6 | 8°47 | 10° 5 | 19°33 | 6°43 | 0°43 | 9°16 | 23♎38 | 24°32 | 18°46 | n.a. | F 2 |
| S 3 | 12 31 33 | 9°35'46 | 16°12 | 28°41 | 9°18 | 9°12 | 10°19 | 19°39 | 6°46 | 0°45 | 9°17 | 23°37 | 24°29 | 18°53 | n.a. | S 3 |
| S 4 | 12 35 30 | 10°33'48 | 28°13 | 0♉10 | 10°30 | 9°38 | 10°32 | 19°46 | 6°49 | 0°47 | 9°18 | 23°D37 | 24°26 | 18°59 | n.a. | S 4 |
| M 5 | 12 39 27 | 11°31'48 | 10♏ 7 | 1°35 | 11°42 | 10° 3 | 10°45 | 19°53 | 6°52 | 0°49 | 9°19 | 23°37 | 24°23 | 19° 6 | n.a. | M 5 |
| T 6 | 12 43 23 | 12°29'46 | 21°57 | 2°55 | 12°54 | 10°29 | 10°59 | 19°59 | 6°55 | 0°51 | 9°21 | 23°38 | 24°19 | 19°13 | n.a. | T 6 |
| W 7 | 12 47 20 | 13°27'43 | 3♐45 | 4°12 | 14° 6 | 10°56 | 11°12 | 20° 6 | 6°58 | 0°53 | 9°22 | 23°39 | 24°16 | 19°19 | n.a. | W 7 |
| T 8 | 12 51 16 | 14°25'38 | 15°37 | 5°24 | 15°18 | 11°22 | 11°25 | 20°13 | 7° 1 | 0°55 | 9°23 | 23°40 | 24°13 | 19°26 | n.a. | T 8 |
| F 9 | 12 55 13 | 15°23'32 | 27°35 | 6°32 | 16°30 | 11°49 | 11°38 | 20°20 | 7° 4 | 0°58 | 9°24 | 23°41 | 24°10 | 19°33 | n.a. | F 9 |
| S 10 | 12 59 9 | 16°21'25 | 9♑44 | 7°36 | 17°42 | 12°16 | 11°52 | 20°27 | 7° 7 | 1° 0 | 9°26 | 23°41 | 24° 7 | 19°39 | n.a. | S 10 |
| S 11 | 13 3 6 | 17°19'17 | 22° 8 | 8°35 | 18°54 | 12°43 | 12° 5 | 20°34 | 7°10 | 1° 2 | 9°27 | 23°R41 | 24° 3 | 19°46 | n.a. | S 11 |
| M12 | 13 7 2 | 18°17'07 | 4♒52 | 9°29 | 20° 5 | 13°10 | 12°18 | 20°41 | 7°12 | 1° 4 | 9°28 | 23°41 | 24° 0 | 19°53 | n.a. | M12 |
| T 13 | 13 10 59 | 19°14'55 | 18° 0 | 10°19 | 21°17 | 13°38 | 12°31 | 20°48 | 7°15 | 1° 6 | 9°29 | 23°41 | 23°57 | 19°59 | n.a. | T 13 |
| W14 | 13 14 56 | 20°12'43 | 1♓33 | 11° 4 | 22°29 | 14° 5 | 12°44 | 20°55 | 7°18 | 1° 9 | 9°31 | 23°40 | 23°54 | 20° 6 | n.a. | W14 |
| T 15 | 13 18 52 | 21°10'29 | 15°32 | 11°45 | 23°40 | 14°33 | 12°56 | 21° 3 | 7°20 | 1°11 | 9°32 | 23°40 | 23°51 | 20°13 | n.a. | T 15 |
| F 16 | 13 22 49 | 22° 8'13 | 29°56 | 12°21 | 24°52 | 15° 1 | 13° 9 | 21°10 | 7°23 | 1°13 | 9°33 | 23°40 | 23°48 | 20°19 | n.a. | F 16 |
| S 17 | 13 26 45 | 23° 5'57 | 14♈40 | 12°52 | 26° 3 | 15°30 | 13°22 | 21°17 | 7°26 | 1°15 | 9°35 | 23°40 | 23°44 | 20°26 | n.a. | S 17 |
| S 18 | 13 30 42 | 24° 3'39 | 29°38 | 13°18 | 27°14 | 15°58 | 13°35 | 21°24 | 7°28 | 1°18 | 9°36 | 23°40 | 23°41 | 20°33 | n.a. | S 18 |
| M19 | 13 34 38 | 25° 1'20 | 14♉42 | 13°39 | 28°26 | 16°27 | 13°47 | 21°32 | 7°31 | 1°20 | 9°37 | 23°40 | 23°38 | 20°39 | n.a. | M19 |
| T 20 | 13 38 35 | 25°58'59 | 29°42 | 13°55 | 29°37 | 16°56 | 14° 0 | 21°39 | 7°34 | 1°22 | 9°39 | 23°39 | 23°35 | 20°46 | n.a. | T 20 |
| W21 | 13 42 31 | 26°56'36 | 14♊32 | 14° 6 | 0♊48 | 17°25 | 14°12 | 21°46 | 7°36 | 1°24 | 9°40 | 23°39 | 23°32 | 20°53 | n.a. | W21 |
| T 22 | 13 46 28 | 27°54'13 | 29° 3 | 14°13 | 1°59 | 17°54 | 14°24 | 21°54 | 7°39 | 1°26 | 9°41 | 23°39 | 23°29 | 20°59 | n.a. | T 22 |
| F 23 | 13 50 25 | 28°51'47 | 13♋14 | 14°R15 | 3°10 | 18°23 | 14°37 | 22° 1 | 7°41 | 1°29 | 9°43 | 23°38 | 23°25 | 21° 6 | n.a. | F 23 |
| S 24 | 13 54 21 | 29°49'20 | 27° 1 | 14°12 | 4°21 | 18°53 | 14°49 | 22° 9 | 7°43 | 1°31 | 9°44 | 23°D38 | 23°22 | 21°13 | n.a. | S 24 |
| S 25 | 13 58 18 | 0♉46'52 | 10♌26 | 14° 4 | 5°32 | 19°23 | 15° 1 | 22°16 | 7°46 | 1°33 | 9°45 | 23°38 | 23°19 | 21°19 | n.a. | S 25 |
| M26 | 14 2 14 | 1°44'21 | 23°29 | 13°52 | 6°43 | 19°52 | 15°13 | 22°24 | 7°48 | 1°35 | 9°47 | 23°39 | 23°16 | 21°26 | n.a. | M26 |
| T 27 | 14 6 11 | 2°41'50 | 6♍14 | 13°37 | 7°54 | 20°22 | 15°25 | 22°31 | 7°50 | 1°38 | 9°48 | 23°39 | 23°13 | 21°33 | n.a. | T 27 |
| W28 | 14 10 7 | 3°39'17 | 18°43 | 13°17 | 9° 4 | 20°53 | 15°37 | 22°39 | 7°53 | 1°40 | 9°50 | 23°40 | 23° 9 | 21°39 | n.a. | W28 |
| T 29 | 14 14 4 | 4°36'42 | 0♎59 | 12°54 | 10°15 | 21°23 | 15°49 | 22°47 | 7°55 | 1°42 | 9°51 | 23°41 | 23° 6 | 21°46 | n.a. | T 29 |
| F 30 | 14 18 0 | 5♉34'07 | 13♎ 5 | 12♉28 | 11♊25 | 21♋53 | 16♓ 0 | 22♉54 | 7♓57 | 1♉44 | 9♉52 | 23♎42 | 23♎ 3 | 21♏53 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3n 4 | 0n46 | 2s47 | 11n53 | 2n 3 | 14n35 | 0n39 | 25n45 | 2n19 | 9s 2 | 1s10 | 16n16 | 1s34 | 9s51 | 0s44 | 10n 6 | 1s51 | 3n43 | 11s36 | 9s17 | 9s38 | 15s33 | | n.a. |
| F 2 | 3 27 | 3s15 | 1 46 | 12 35 | 2 11 | 15 1 | 0 42 | 25 42 | 2 18 | 8 57 | 1 10 | 16 18 | 1 34 | 9 50 | 0 44 | 10 7 | 1 51 | 3 44 | 11 36 | 9 16 | 9 37 | 15 34 | | n.a. |
| S 3 | 3 51 | 7 4 | 0 41 | 13 16 | 2 18 | 15 28 | 0 45 | 25 39 | 2 17 | 8 52 | 1 10 | 16 20 | 1 34 | 9 49 | 0 45 | 10 7 | 1 51 | 3 44 | 11 36 | 9 16 | 9 35 | 15 35 | | n.a. |
| S 4 | 4 14 | 10 34 | 0n26 | 13 54 | 2 24 | 15 53 | 0 48 | 25 36 | 2 16 | 8 47 | 1 10 | 16 22 | 1 34 | 9 48 | 0 45 | 10 8 | 1 51 | 3 45 | 11 36 | 9 16 | 9 34 | 15 36 | | n.a. |
| M 5 | 4 37 | 13 35 | 1 30 | 14 29 | 2 29 | 16 19 | 0 51 | 25 33 | 2 14 | 8 42 | 1 11 | 16 24 | 1 34 | 9 46 | 0 45 | 10 9 | 1 51 | 3 45 | 11 36 | 9 16 | 9 33 | 15 37 | | n.a. |
| T 6 | 4 59 | 16 2 | 2 31 | 15 2 | 2 34 | 16 44 | 0 53 | 25 30 | 2 13 | 8 37 | 1 11 | 16 26 | 1 34 | 9 45 | 0 45 | 10 10 | 1 51 | 3 46 | 11 35 | 9 16 | 9 32 | 15 38 | | n.a. |
| W 7 | 5 22 | 17 47 | 3 25 | 15 32 | 2 38 | 17 8 | 0 56 | 25 27 | 2 12 | 8 32 | 1 11 | 16 28 | 1 33 | 9 44 | 0 45 | 10 10 | 1 51 | 3 47 | 11 35 | 9 17 | 9 31 | 15 39 | | n.a. |
| T 8 | 5 45 | 18 46 | 4 10 | 15 59 | 2 41 | 17 33 | 0 59 | 25 23 | 2 11 | 8 27 | 1 11 | 16 30 | 1 33 | 9 43 | 0 45 | 10 11 | 1 51 | 3 47 | 11 35 | 9 17 | 9 29 | 15 40 | | n.a. |
| F 9 | 6 8 | 18 56 | 4 45 | 16 24 | 2 43 | 17 56 | 1 2 | 25 20 | 2 10 | 8 22 | 1 11 | 16 32 | 1 33 | 9 42 | 0 45 | 10 12 | 1 51 | 3 48 | 11 35 | 9 17 | 9 28 | 15 41 | | n.a. |
| S 10 | 6 30 | 18 13 | 5 8 | 16 46 | 2 44 | 18 20 | 1 4 | 25 16 | 2 9 | 8 17 | 1 11 | 16 34 | 1 33 | 9 41 | 0 45 | 10 13 | 1 51 | 3 48 | 11 35 | 9 18 | 9 27 | 15 42 | | n.a. |
| S 11 | 6 52 | 16 38 | 5 18 | 17 6 | 2 44 | 18 42 | 1 7 | 25 12 | 2 7 | 8 12 | 1 11 | 16 36 | 1 33 | 9 40 | 0 45 | 10 14 | 1 51 | 3 49 | 11 35 | 9 18 | 9 26 | 15 43 | | n.a. |
| M12 | 7 15 | 14 13 | 5 12 | 17 23 | 2 43 | 19 5 | 1 10 | 25 8 | 2 6 | 8 7 | 1 11 | 16 38 | 1 33 | 9 39 | 0 45 | 10 14 | 1 51 | 3 49 | 11 35 | 9 18 | 9 25 | 15 44 | | n.a. |
| T 13 | 7 37 | 11 1 | 4 50 | 17 37 | 2 41 | 19 27 | 1 12 | 25 4 | 2 5 | 8 2 | 1 12 | 16 40 | 1 32 | 9 38 | 0 45 | 10 15 | 1 51 | 3 50 | 11 35 | 9 17 | 9 24 | 15 45 | | n.a. |
| W14 | 7 59 | 7 8 | 4 11 | 17 49 | 2 38 | 19 48 | 1 15 | 25 0 | 2 4 | 7 57 | 1 12 | 16 42 | 1 32 | 9 37 | 0 45 | 10 16 | 1 51 | 3 50 | 11 34 | 9 17 | 9 22 | 15 46 | | n.a. |
| T 15 | 8 21 | 2 45 | 3 17 | 17 58 | 2 34 | 20 9 | 1 18 | 24 56 | 2 3 | 7 53 | 1 12 | 16 44 | 1 32 | 9 36 | 0 45 | 10 17 | 1 51 | 3 51 | 11 34 | 9 17 | 9 21 | 15 47 | | n.a. |
| F 16 | 8 43 | 1n56 | 2 8 | 18 5 | 2 30 | 20 29 | 1 20 | 24 52 | 2 2 | 7 48 | 1 12 | 16 46 | 1 32 | 9 35 | 0 45 | 10 18 | 1 51 | 3 51 | 11 34 | 9 17 | 9 20 | 15 48 | | n.a. |
| S 17 | 9 4 | 6 36 | 0 50 | 18 9 | 2 24 | 20 49 | 1 23 | 24 47 | 2 1 | 7 43 | 1 12 | 16 48 | 1 32 | 9 34 | 0 45 | 10 18 | 1 51 | 3 52 | 11 34 | 9 17 | 9 19 | 15 49 | | n.a. |
| S 18 | 9 26 | 10 57 | 0s33 | 18 10 | 2 17 | 21 8 | 1 25 | 24 43 | 2 0 | 7 38 | 1 12 | 16 50 | 1 32 | 9 33 | 0 45 | 10 19 | 1 51 | 3 52 | 11 34 | 9 17 | 9 18 | 15 50 | | n.a. |
| M19 | 9 47 | 14 36 | 1 54 | 18 9 | 2 8 | 21 27 | 1 28 | 24 38 | 1 59 | 7 33 | 1 12 | 16 52 | 1 32 | 9 32 | 0 45 | 10 20 | 1 51 | 3 53 | 11 34 | 9 17 | 9 16 | 15 51 | | n.a. |
| T 20 | 10 9 | 17 16 | 3 7 | 18 5 | 1 59 | 21 45 | 1 30 | 24 34 | 1 57 | 7 29 | 1 13 | 16 54 | 1 31 | 9 31 | 0 45 | 10 21 | 1 51 | 3 53 | 11 34 | 9 17 | 9 15 | 15 52 | | n.a. |
| W21 | 10 30 | 18 43 | 4 7 | 17 59 | 1 49 | 22 3 | 1 32 | 24 29 | 1 56 | 7 24 | 1 13 | 16 56 | 1 31 | 9 30 | 0 45 | 10 21 | 1 51 | 3 54 | 11 34 | 9 17 | 9 14 | 15 53 | | n.a. |
| T 22 | 10 51 | 18 53 | 4 49 | 17 50 | 1 38 | 22 20 | 1 35 | 24 24 | 1 55 | 7 19 | 1 13 | 16 59 | 1 31 | 9 29 | 0 45 | 10 22 | 1 51 | 3 54 | 11 34 | 9 17 | 9 13 | 15 54 | | n.a. |
| F 23 | 11 11 | 17 51 | 5 12 | 17 39 | 1 26 | 22 36 | 1 37 | 24 19 | 1 54 | 7 15 | 1 13 | 17 1 | 1 31 | 9 29 | 0 45 | 10 23 | 1 51 | 3 55 | 11 33 | 9 17 | 9 12 | 15 55 | | n.a. |
| S 24 | 11 32 | 15 48 | 5 17 | 17 26 | 1 13 | 22 52 | 1 39 | 24 14 | 1 53 | 7 10 | 1 13 | 17 3 | 1 31 | 9 28 | 0 45 | 10 24 | 1 51 | 3 55 | 11 33 | 9 17 | 9 11 | 15 56 | | n.a. |
| S 25 | 11 52 | 12 56 | 5 4 | 17 10 | 0 59 | 23 7 | 1 41 | 24 8 | 1 52 | 7 6 | 1 13 | 17 5 | 1 31 | 9 27 | 0 45 | 10 25 | 1 51 | 3 56 | 11 33 | 9 17 | 9 9 | 15 57 | | n.a. |
| M26 | 12 13 | 9 30 | 4 36 | 16 53 | 0 44 | 23 22 | 1 43 | 24 3 | 1 51 | 7 1 | 1 14 | 17 7 | 1 31 | 9 26 | 0 45 | 10 25 | 1 51 | 3 56 | 11 33 | 9 17 | 9 8 | 15 58 | | n.a. |
| T 27 | 12 33 | 5 42 | 3 54 | 16 33 | 0 29 | 23 36 | 1 45 | 23 57 | 1 50 | 6 56 | 1 14 | 17 9 | 1 31 | 9 25 | 0 45 | 10 26 | 1 51 | 3 57 | 11 33 | 9 17 | 9 7 | 15 59 | | n.a. |
| W28 | 12 52 | 1 43 | 3 2 | 16 12 | 0 12 | 23 49 | 1 47 | 23 51 | 1 49 | 6 52 | 1 14 | 17 11 | 1 30 | 9 24 | 0 45 | 10 27 | 1 51 | 3 57 | 11 33 | 9 17 | 9 6 | 16 0 | | n.a. |
| T 29 | 13 12 | 2s16 | 2 3 | 15 49 | 0s 4 | 24 2 | 1 49 | 23 46 | 1 48 | 6 47 | 1 14 | 17 13 | 1 30 | 9 23 | 0 45 | 10 28 | 1 51 | 3 57 | 11 33 | 9 18 | 9 5 | 16 1 | | n.a. |
| F 30 | 13n31 | 6s 7 | 0s59 | 15n25 | 0s21 | 24n14 | 1n51 | 23n40 | 1n47 | 6s43 | 1s14 | 17n15 | 1s30 | 9s23 | 0s45 | 10n29 | 1s51 | 3n58 | 11s33 | 9s18 | 9s 3 | 16s 2 | | n.a. |

Julian Day Number = 1688640.5, Delta T = 03h11m39s
Ecliptic obliquity = 23°42'14, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°18'15, Lahiri = - 5°11'14 Julian Calendar 1 Apr. 90 BCE == Greg. Calendar 30 March 090 BCE

The year -89 astronomical counting style corresponds to year 090 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 90 BCE
# geocentric

## MAY 90 BCE (-89) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 14 21 57 | 6♉31'30 | 25♎ 3 | 11°R59 | 12♊36 | 22♋24 | 16♓12 | 23♉ 2 | 7♓59 | 1♉47 | 9♉54 | 23°R42 | 23♎ 0 | 21♏59 | n.a. | S 1 |
| S 2 | 14 25 54 | 7°28'52 | 6♏56 | 11♉28 | 13°46 | 22°55 | 16°24 | 23°10 | 8° 1 | 1°49 | 9°55 | 23♎42 | 22°57 | 22° 6 | n.a. | S 2 |
| M 3 | 14 29 50 | 8°26'13 | 18°46 | 10°56 | 14°56 | 23°26 | 16°35 | 23°17 | 8° 3 | 1°51 | 9°56 | 23°41 | 22°54 | 22°13 | n.a. | M 3 |
| T 4 | 14 33 47 | 9°23'33 | 0♐35 | 10°23 | 16° 6 | 23°57 | 16°47 | 23°25 | 8° 5 | 1°53 | 9°58 | 23°39 | 22°50 | 22°19 | n.a. | T 4 |
| W 5 | 14 37 43 | 10°20'52 | 12°26 | 9°49 | 17°16 | 24°28 | 16°58 | 23°33 | 8° 7 | 1°56 | 9°59 | 23°36 | 22°47 | 22°26 | n.a. | W 5 |
| T 6 | 14 41 40 | 11°18'11 | 24°20 | 9°16 | 18°26 | 24°59 | 17° 9 | 23°41 | 8° 9 | 1°58 | 10° 0 | 23°34 | 22°44 | 22°33 | n.a. | T 6 |
| F 7 | 14 45 36 | 12°15'29 | 6♑21 | 8°43 | 19°36 | 25°31 | 17°20 | 23°48 | 8°11 | 2° 0 | 10° 2 | 23°31 | 22°41 | 22°39 | n.a. | F 7 |
| S 8 | 14 49 33 | 13°12'46 | 18°32 | 8°11 | 20°46 | 26° 2 | 17°31 | 23°56 | 8°13 | 2° 2 | 10° 3 | 23°29 | 22°38 | 22°46 | n.a. | S 8 |
| S 9 | 14 53 29 | 14°10'03 | 0♒56 | 7°42 | 21°56 | 26°34 | 17°42 | 24° 4 | 8°15 | 2° 5 | 10° 5 | 23°27 | 22°34 | 22°53 | n.a. | S 9 |
| M10 | 14 57 26 | 15° 7'19 | 13°38 | 7°14 | 23° 5 | 27° 6 | 17°53 | 24°12 | 8°17 | 2° 7 | 10° 6 | 23°D27 | 22°31 | 22°59 | n.a. | M10 |
| T 11 | 15 1 23 | 16° 4'34 | 26°40 | 6°50 | 24°15 | 27°38 | 18° 4 | 24°20 | 8°19 | 2° 9 | 10° 7 | 23°27 | 22°28 | 23° 6 | n.a. | T 11 |
| W12 | 15 5 19 | 17° 1'49 | 10♓ 6 | 6°29 | 25°24 | 28°10 | 18°14 | 24°27 | 8°20 | 2°11 | 10° 9 | 23°28 | 22°25 | 23°12 | n.a. | W12 |
| T 13 | 15 9 16 | 17°59'04 | 23°58 | 6°11 | 26°34 | 28°42 | 18°25 | 24°35 | 8°22 | 2°13 | 10°10 | 23°30 | 22°22 | 23°19 | n.a. | T 13 |
| F 14 | 15 13 12 | 18°56'18 | 8♈16 | 5°57 | 27°43 | 29°15 | 18°35 | 24°43 | 8°24 | 2°15 | 10°11 | 23°31 | 22°19 | 23°26 | n.a. | F 14 |
| S 15 | 15 17 9 | 19°53'32 | 22°57 | 5°47 | 28°52 | 29°47 | 18°45 | 24°51 | 8°25 | 2°18 | 10°13 | 23°R31 | 22°15 | 23°32 | n.a. | S 15 |
| S 16 | 15 21 5 | 20°50'45 | 7♉58 | 5°42 | 0♌ 1 | 0♏20 | 18°56 | 24°59 | 8°27 | 2°20 | 10°14 | 23°31 | 22°12 | 23°39 | n.a. | S 16 |
| M17 | 15 25 2 | 21°47'58 | 23° 9 | 5°D40 | 1°10 | 0°52 | 19° 6 | 25° 7 | 8°28 | 2°22 | 10°15 | 23°29 | 22° 9 | 23°46 | n.a. | M17 |
| T 18 | 15 28 58 | 22°45'11 | 8♊22 | 5°44 | 2°19 | 1°25 | 19°16 | 25°15 | 8°30 | 2°24 | 10°17 | 23°26 | 22° 6 | 23°52 | n.a. | T 18 |
| W19 | 15 32 55 | 23°42'23 | 23°26 | 5°52 | 3°28 | 1°58 | 19°25 | 25°22 | 8°31 | 2°26 | 10°18 | 23°22 | 22° 3 | 23°59 | n.a. | W19 |
| T 20 | 15 36 52 | 24°39'34 | 8♋13 | 6° 4 | 4°37 | 2°31 | 19°35 | 25°30 | 8°33 | 2°28 | 10°20 | 23°18 | 22° 0 | 24° 6 | n.a. | T 20 |
| F 21 | 15 40 48 | 25°36'44 | 22°36 | 6°21 | 5°45 | 3° 5 | 19°45 | 25°38 | 8°34 | 2°30 | 10°21 | 23°14 | 21°56 | 24°13 | n.a. | F 21 |
| S 22 | 15 44 45 | 26°33'54 | 6♌32 | 6°43 | 6°54 | 3°38 | 19°54 | 25°46 | 8°35 | 2°33 | 10°22 | 23°11 | 21°53 | 24°19 | n.a. | S 22 |
| S 23 | 15 48 41 | 27°31'03 | 20° 0 | 7° 9 | 8° 2 | 4°11 | 20° 4 | 25°54 | 8°36 | 2°35 | 10°24 | 23° 9 | 21°50 | 24°26 | n.a. | S 23 |
| M24 | 15 52 38 | 28°28'12 | 3♍ 2 | 7°40 | 9°10 | 4°45 | 20°13 | 26° 2 | 8°38 | 2°37 | 10°25 | 23°D 9 | 21°47 | 24°33 | n.a. | M24 |
| T 25 | 15 56 34 | 29°25'19 | 15°42 | 8°15 | 10°18 | 5°18 | 20°22 | 26°10 | 8°39 | 2°39 | 10°26 | 23°10 | 21°44 | 24°39 | n.a. | T 25 |
| W26 | 16 0 31 | 0♊22'27 | 28° 3 | 8°55 | 11°26 | 5°52 | 20°31 | 26°18 | 8°40 | 2°41 | 10°27 | 23°12 | 21°40 | 24°46 | n.a. | W26 |
| T 27 | 16 4 27 | 1°19'33 | 10♎10 | 9°39 | 12°34 | 6°26 | 20°40 | 26°25 | 8°41 | 2°43 | 10°29 | 23°13 | 21°37 | 24°53 | n.a. | T 27 |
| F 28 | 16 8 24 | 2°16'40 | 22° 8 | 10°27 | 13°41 | 7° 0 | 20°49 | 26°33 | 8°42 | 2°45 | 10°30 | 23°R14 | 21°34 | 24°59 | n.a. | F 28 |
| S 29 | 16 12 21 | 3°13'46 | 3♏59 | 11°20 | 14°49 | 7°34 | 20°57 | 26°41 | 8°43 | 2°47 | 10°31 | 23°13 | 21°31 | 25° 6 | n.a. | S 29 |
| S 30 | 16 16 17 | 4°10'51 | 15°48 | 12°16 | 15°56 | 8° 8 | 21° 6 | 26°49 | 8°44 | 2°49 | 10°33 | 23°11 | 21°28 | 25°13 | n.a. | S 30 |
| M31 | 16 20 14 | 5♊ 7'57 | 27♏37 | 13♉17 | 17♋ 4 | 8♏42 | 21♓14 | 26♉57 | 8♓45 | 2♉51 | 10♉34 | 23♎ 7 | 21♎25 | 25♏19 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 13n51 | 9s41 | 0n 7 | 15n 0 | 0s38 | 24n25 | 1n53 | 23n34 | 1n46 | 6s39 | 1s14 | 17n17 | 1s30 | 9s22 | 0s45 | 10n29 | 1s51 | 3n58 | 11s33 | 9s18 | 9s 2 | 16s 3 | | n.a. |
| S 2 | 14 10 | 12 50 | 1 13 | 14 34 | 0 55 | 24 36 | 1 55 | 23 28 | 1 45 | 6 34 | 1 15 | 17 19 | 1 30 | 9 21 | 0 45 | 10 30 | 1 51 | 3 59 | 11 33 | 9 18 | 9 1 | 16 4 | | n.a. |
| M 3 | 14 28 | 15 27 | 2 14 | 14 7 | 1 13 | 24 46 | 1 56 | 23 21 | 1 44 | 6 30 | 1 15 | 17 21 | 1 30 | 9 20 | 0 45 | 10 31 | 1 51 | 3 59 | 11 33 | 9 17 | 9 0 | 16 5 | | n.a. |
| T 4 | 14 47 | 17 24 | 3 10 | 13 41 | 1 29 | 24 55 | 1 58 | 23 15 | 1 43 | 6 26 | 1 15 | 17 23 | 1 30 | 9 20 | 0 45 | 10 32 | 1 51 | 4 0 | 11 33 | 9 17 | 8 59 | 16 6 | | n.a. |
| W 5 | 15 5 | 18 36 | 3 58 | 13 15 | 1 46 | 25 4 | 1 59 | 23 8 | 1 42 | 6 21 | 1 15 | 17 25 | 1 30 | 9 19 | 0 45 | 10 32 | 1 51 | 4 0 | 11 33 | 9 16 | 8 57 | 16 7 | | n.a. |
| T 6 | 15 23 | 18 59 | 4 36 | 12 49 | 2 2 | 25 12 | 2 1 | 23 2 | 1 41 | 6 17 | 1 15 | 17 27 | 1 30 | 9 18 | 0 45 | 10 33 | 1 51 | 4 1 | 11 33 | 9 15 | 8 56 | 16 8 | | n.a. |
| F 7 | 15 41 | 18 32 | 5 2 | 12 24 | 2 17 | 25 19 | 2 2 | 22 55 | 1 40 | 6 13 | 1 16 | 17 29 | 1 29 | 9 17 | 0 45 | 10 34 | 1 51 | 4 1 | 11 33 | 9 14 | 8 55 | 16 9 | | n.a. |
| S 8 | 15 59 | 17 13 | 5 14 | 12 0 | 2 32 | 25 26 | 2 3 | 22 48 | 1 39 | 6 9 | 1 16 | 17 31 | 1 29 | 9 17 | 0 45 | 10 35 | 1 51 | 4 2 | 11 33 | 9 13 | 8 54 | 16 10 | | n.a. |
| S 9 | 16 16 | 15 5 | 5 13 | 11 37 | 2 45 | 25 32 | 2 5 | 22 41 | 1 38 | 6 5 | 1 16 | 17 33 | 1 29 | 9 16 | 0 45 | 10 35 | 1 51 | 4 2 | 11 33 | 9 13 | 8 53 | 16 11 | | n.a. |
| M10 | 16 33 | 12 11 | 4 56 | 11 17 | 2 58 | 25 37 | 2 6 | 22 33 | 1 37 | 6 1 | 1 16 | 17 35 | 1 29 | 9 15 | 0 46 | 10 36 | 1 51 | 4 2 | 11 33 | 9 12 | 8 51 | 16 12 | | n.a. |
| T 11 | 16 50 | 8 37 | 4 24 | 10 58 | 3 9 | 25 41 | 2 7 | 22 26 | 1 36 | 5 56 | 1 16 | 17 37 | 1 29 | 9 15 | 0 46 | 10 37 | 1 51 | 4 3 | 11 33 | 9 12 | 8 50 | 16 13 | | n.a. |
| W12 | 17 6 | 4 31 | 3 37 | 10 41 | 3 20 | 25 45 | 2 8 | 22 19 | 1 35 | 5 52 | 1 17 | 17 39 | 1 29 | 9 14 | 0 46 | 10 38 | 1 51 | 4 3 | 11 33 | 9 13 | 8 49 | 16 14 | | n.a. |
| T 13 | 17 23 | 0 3 | 2 36 | 10 27 | 3 29 | 25 48 | 2 8 | 22 11 | 1 34 | 5 48 | 1 17 | 17 41 | 1 29 | 9 14 | 0 46 | 10 38 | 1 51 | 4 4 | 11 33 | 9 13 | 8 48 | 16 14 | | n.a. |
| F 14 | 17 39 | 4n35 | 1 23 | 10 15 | 3 37 | 25 50 | 2 9 | 22 3 | 1 33 | 5 45 | 1 17 | 17 43 | 1 29 | 9 13 | 0 46 | 10 39 | 1 51 | 4 4 | 11 33 | 9 14 | 8 47 | 16 15 | | n.a. |
| S 15 | 17 54 | 9 4 | 0 3 | 10 5 | 3 43 | 25 52 | 2 10 | 21 56 | 1 32 | 5 41 | 1 17 | 17 45 | 1 29 | 9 12 | 0 46 | 10 40 | 1 51 | 4 4 | 11 33 | 9 14 | 8 45 | 16 16 | | n.a. |
| S 16 | 18 10 | 13 5 | 1s19 | 9 58 | 3 49 | 25 53 | 2 10 | 21 48 | 1 32 | 5 37 | 1 17 | 17 47 | 1 29 | 9 12 | 0 46 | 10 41 | 1 51 | 4 5 | 11 33 | 9 14 | 8 44 | 16 17 | | n.a. |
| M17 | 18 25 | 16 15 | 2 36 | 9 54 | 3 53 | 25 53 | 2 11 | 21 39 | 1 31 | 5 33 | 1 18 | 17 49 | 1 29 | 9 11 | 0 46 | 10 41 | 1 51 | 4 5 | 11 33 | 9 13 | 8 43 | 16 18 | | n.a. |
| T 18 | 18 40 | 18 18 | 3 42 | 9 52 | 3 56 | 25 52 | 2 11 | 21 31 | 1 30 | 5 29 | 1 18 | 17 51 | 1 28 | 9 11 | 0 46 | 10 42 | 1 51 | 4 6 | 11 33 | 9 12 | 8 42 | 16 19 | | n.a. |
| W19 | 18 54 | 19 1 | 4 31 | 9 53 | 3 58 | 25 51 | 2 12 | 21 23 | 1 29 | 5 26 | 1 18 | 17 53 | 1 28 | 9 10 | 0 46 | 10 43 | 1 51 | 4 6 | 11 33 | 9 10 | 8 41 | 16 20 | | n.a. |
| T 20 | 19 9 | 18 25 | 5 2 | 9 56 | 3 58 | 25 49 | 2 12 | 21 14 | 1 28 | 5 22 | 1 18 | 17 55 | 1 28 | 9 10 | 0 46 | 10 44 | 1 51 | 4 6 | 11 33 | 9 9 | 8 40 | 16 21 | | n.a. |
| F 21 | 19 22 | 16 39 | 5 13 | 10 2 | 3 58 | 25 46 | 2 12 | 21 6 | 1 27 | 5 18 | 1 19 | 17 57 | 1 28 | 9 9 | 0 46 | 10 44 | 1 51 | 4 7 | 11 33 | 9 7 | 8 38 | 16 22 | | n.a. |
| S 22 | 19 36 | 13 56 | 5 4 | 10 11 | 3 57 | 25 43 | 2 12 | 20 57 | 1 26 | 5 15 | 1 19 | 17 59 | 1 28 | 9 9 | 0 46 | 10 45 | 1 51 | 4 7 | 11 33 | 9 6 | 8 37 | 16 23 | | n.a. |
| S 23 | 19 49 | 10 33 | 4 39 | 10 22 | 3 54 | 25 39 | 2 12 | 20 48 | 1 25 | 5 11 | 1 19 | 18 1 | 1 28 | 9 8 | 0 46 | 10 46 | 1 51 | 4 8 | 11 33 | 9 6 | 8 36 | 16 24 | | n.a. |
| M24 | 20 2 | 6 46 | 4 0 | 10 35 | 3 51 | 25 34 | 2 12 | 20 39 | 1 24 | 5 8 | 1 19 | 18 3 | 1 28 | 9 8 | 0 46 | 10 46 | 1 51 | 4 8 | 11 33 | 9 6 | 8 35 | 16 25 | | n.a. |
| T 25 | 20 15 | 2 46 | 3 11 | 10 50 | 3 46 | 25 29 | 2 11 | 20 30 | 1 23 | 5 4 | 1 20 | 18 5 | 1 28 | 9 8 | 0 46 | 10 47 | 1 51 | 4 8 | 11 33 | 9 6 | 8 34 | 16 25 | | n.a. |
| W26 | 20 27 | 1s15 | 2 13 | 11 8 | 3 41 | 25 23 | 2 11 | 20 21 | 1 22 | 5 1 | 1 20 | 18 7 | 1 28 | 9 7 | 0 46 | 10 48 | 1 51 | 4 9 | 11 33 | 9 7 | 8 32 | 16 26 | | n.a. |
| T 27 | 20 39 | 5 9 | 1 11 | 11 28 | 3 35 | 25 16 | 2 11 | 20 11 | 1 22 | 4 58 | 1 20 | 18 9 | 1 28 | 9 7 | 0 46 | 10 48 | 1 51 | 4 9 | 11 33 | 9 7 | 8 31 | 16 27 | | n.a. |
| F 28 | 20 51 | 8 48 | 0 6 | 11 49 | 3 28 | 25 9 | 2 10 | 20 2 | 1 21 | 4 54 | 1 20 | 18 11 | 1 28 | 9 7 | 0 46 | 10 49 | 1 51 | 4 9 | 11 33 | 9 7 | 8 30 | 16 28 | | n.a. |
| S 29 | 21 2 | 12 4 | 0n58 | 12 13 | 3 21 | 25 1 | 2 9 | 19 52 | 1 20 | 4 51 | 1 20 | 18 13 | 1 28 | 9 6 | 0 46 | 10 50 | 1 51 | 4 10 | 11 33 | 9 7 | 8 29 | 16 29 | | n.a. |
| S 30 | 21 13 | 14 51 | 2 0 | 12 38 | 3 13 | 24 52 | 2 8 | 19 42 | 1 19 | 4 48 | 1 21 | 18 14 | 1 28 | 9 6 | 0 46 | 10 50 | 1 51 | 4 10 | 11 33 | 9 6 | 8 28 | 16 30 | | n.a. |
| M31 | 21n23 | 17s 0 | 2n56 | 13n 4 | 3s 4 | 24n42 | 2n 7 | 19n32 | 1n18 | 4s45 | 1s21 | 18n16 | 1s28 | 9s 6 | 0s46 | 10n51 | 1s51 | 4n10 | 11s33 | 9s 5 | 8s26 | 16s31 | | n.a. |

Julian Day Number = 1688670.5, Delta T = 03h11m39s
Ecliptic obliquity = 23°42'13, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°18'10, Lahiri = - 5°11'10 Julian Calendar 1 May 90 BCE == Greg. Calendar 29 Apr. 090 BCE

The year -89 astronomical counting style corresponds to year 090 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 90 BCE
# geocentric

## JUNE 90 BCE (-89) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 24 10 | 6♊ 5'03 | 9♐28 | 14♉22 | 18♋11 | 9♌17 | 21♓22 | 27♉ 5 | 8♓45 | 2♉53 | 10♉35 | 23°R 0 | 21♎21 | 25♏26 | n.a. | T 1 |
| W 2 | 16 28 7 | 7° 2'08 | 21°23 | 15°31 | 19°18 | 9°51 | 21°31 | 27°12 | 8°46 | 2°55 | 10°36 | 22♎53 | 21°18 | 25°33 | n.a. | W 2 |
| T 3 | 16 32 3 | 7°59'14 | 3♑24 | 16°44 | 20°25 | 10°26 | 21°39 | 27°20 | 8°47 | 2°57 | 10°38 | 22°45 | 21°15 | 25°39 | n.a. | T 3 |
| F 4 | 16 36 0 | 8°56'19 | 15°33 | 18° 0 | 21°31 | 11° 0 | 21°46 | 27°28 | 8°47 | 2°59 | 10°39 | 22°37 | 21°12 | 25°46 | n.a. | F 4 |
| S 5 | 16 39 56 | 9°53'25 | 27°51 | 19°21 | 22°38 | 11°35 | 21°54 | 27°36 | 8°48 | 3° 0 | 10°40 | 22°29 | 21° 9 | 25°53 | n.a. | S 5 |
| S 6 | 16 43 53 | 10°50'32 | 10♒20 | 20°45 | 23°44 | 12°10 | 22° 2 | 27°44 | 8°49 | 3° 2 | 10°41 | 22°24 | 21° 6 | 25°59 | n.a. | S 6 |
| M 7 | 16 47 50 | 11°47'38 | 23° 4 | 22°13 | 24°50 | 12°45 | 22° 9 | 27°51 | 8°49 | 3° 4 | 10°43 | 22°20 | 21° 2 | 26° 6 | n.a. | M 7 |
| T 8 | 16 51 46 | 12°44'45 | 6♓ 5 | 23°45 | 25°56 | 13°20 | 22°16 | 27°59 | 8°50 | 3° 6 | 10°44 | 22°18 | 20°59 | 26°13 | n.a. | T 8 |
| W 9 | 16 55 43 | 13°41'52 | 19°25 | 25°20 | 27° 2 | 13°55 | 22°23 | 28° 7 | 8°50 | 3° 8 | 10°45 | 22°D18 | 20°56 | 26°19 | n.a. | W 9 |
| T 10 | 16 59 39 | 14°39'00 | 3♈ 8 | 26°59 | 28° 8 | 14°30 | 22°30 | 28°14 | 8°50 | 3°10 | 10°46 | 22°19 | 20°53 | 26°26 | n.a. | T 10 |
| F 11 | 17 3 36 | 15°36'09 | 17°14 | 28°41 | 29°13 | 15° 5 | 22°37 | 28°22 | 8°51 | 3°11 | 10°47 | 22°R20 | 20°50 | 26°33 | n.a. | F 11 |
| S 12 | 17 7 32 | 16°33'18 | 1♉43 | 0♊27 | 0♌18 | 15°41 | 22°44 | 28°30 | 8°51 | 3°13 | 10°48 | 22°20 | 20°46 | 26°39 | n.a. | S 12 |
| S 13 | 17 11 29 | 17°30'27 | 16°32 | 2°16 | 1°24 | 16°16 | 22°50 | 28°37 | 8°51 | 3°15 | 10°50 | 22°18 | 20°43 | 26°46 | n.a. | S 13 |
| M14 | 17 15 26 | 18°27'38 | 1♊36 | 4° 7 | 2°28 | 16°52 | 22°57 | 28°45 | 8°52 | 3°17 | 10°51 | 22°13 | 20°40 | 26°53 | n.a. | M14 |
| T 15 | 17 19 22 | 19°24'48 | 16°46 | 6° 2 | 3°33 | 17°28 | 23° 3 | 28°53 | 8°52 | 3°18 | 10°52 | 22° 7 | 20°37 | 26°59 | n.a. | T 15 |
| W16 | 17 23 19 | 20°22'00 | 1♋52 | 7°59 | 4°38 | 18° 3 | 23° 9 | 29° 0 | 8°52 | 3°20 | 10°53 | 21°58 | 20°34 | 27° 6 | n.a. | W16 |
| T 17 | 17 27 15 | 21°19'11 | 16°44 | 9°58 | 5°42 | 18°39 | 23°15 | 29° 8 | 8°R52 | 3°22 | 10°54 | 21°49 | 20°31 | 27°13 | n.a. | T 17 |
| F 18 | 17 31 12 | 22°16'23 | 1♌14 | 12° 0 | 6°46 | 19°15 | 23°20 | 29°15 | 8°52 | 3°23 | 10°55 | 21°41 | 20°27 | 27°19 | n.a. | F 18 |
| S 19 | 17 35 8 | 23°13'36 | 15°16 | 14° 3 | 7°50 | 19°51 | 23°26 | 29°23 | 8°52 | 3°25 | 10°56 | 21°34 | 20°24 | 27°26 | n.a. | S 19 |
| S 20 | 17 39 5 | 24°10'48 | 28°50 | 16° 8 | 8°54 | 20°27 | 23°31 | 29°30 | 8°52 | 3°26 | 10°57 | 21°29 | 20°21 | 27°33 | n.a. | S 20 |
| M21 | 17 43 1 | 25° 8'01 | 11♍55 | 18°14 | 9°57 | 21° 4 | 23°36 | 29°37 | 8°51 | 3°28 | 10°58 | 21°27 | 20°18 | 27°39 | n.a. | M21 |
| T 22 | 17 46 58 | 26° 5'14 | 24°35 | 20°20 | 11° 0 | 21°40 | 23°41 | 29°45 | 8°51 | 3°30 | 10°59 | 21°D26 | 20°15 | 27°46 | n.a. | T 22 |
| W23 | 17 50 55 | 27° 2'27 | 6♎55 | 22°27 | 12° 3 | 22°16 | 23°46 | 29°52 | 8°51 | 3°31 | 11° 0 | 21°26 | 20°12 | 27°53 | n.a. | W23 |
| T 24 | 17 54 51 | 27°59'41 | 19° 0 | 24°35 | 13° 6 | 22°53 | 23°51 | 29°59 | 8°51 | 3°33 | 11° 1 | 21°R26 | 20° 8 | 27°59 | n.a. | T 24 |
| F 25 | 17 58 48 | 28°56'56 | 0♏54 | 26°42 | 14° 8 | 23°29 | 23°55 | 0♊ 7 | 8°50 | 3°34 | 11° 2 | 21°26 | 20° 5 | 28° 6 | n.a. | F 25 |
| S 26 | 18 2 44 | 29°54'11 | 12°44 | 28°49 | 15°10 | 24° 6 | 24° 0 | 0°14 | 8°50 | 3°35 | 11° 3 | 21°24 | 20° 2 | 28°13 | n.a. | S 26 |
| S 27 | 18 6 41 | 0♋51'26 | 24°32 | 0♋56 | 16°12 | 24°42 | 24° 4 | 0°21 | 8°50 | 3°37 | 11° 4 | 21°19 | 19°59 | 28°19 | n.a. | S 27 |
| M28 | 18 10 37 | 1°48'43 | 6♐22 | 3° 2 | 17°14 | 25°19 | 24° 8 | 0°28 | 8°49 | 3°38 | 11° 5 | 21°12 | 19°56 | 28°26 | n.a. | M28 |
| T 29 | 18 14 34 | 2°46'00 | 18°18 | 5° 7 | 18°15 | 25°56 | 24°12 | 0°35 | 8°49 | 3°40 | 11° 6 | 21° 3 | 19°52 | 28°33 | n.a. | T 29 |
| W30 | 18 18 30 | 3♋43'17 | 0♑21 | 7♋11 | 19♌16 | 26♌33 | 24♓15 | 0♊42 | 8♓48 | 3♉41 | 11♉ 7 | 20♎51 | 19♎49 | 28♏39 | n.a. | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21n34 | 18s25 | 3n44 | 13n33 | 2s55 | 24n32 | 2n 6 | 19n22 | 1n17 | 4s42 | 1s21 | 18n18 | 1s28 | 9s 5 | 0s46 | 10n52 | 1s52 | 4n11 | 11s33 | 9s 2 | 8s25 | 16s32 | | n.a. |
| W 2 | 21 43 | 19 3 | 4 23 | 14 2 | 2 45 | 24 22 | 2 5 | 19 12 | 1 16 | 4 39 | 1 22 | 18 20 | 1 27 | 9 5 | 0 46 | 10 52 | 1 52 | 4 11 | 11 33 | 9 0 | 8 24 | 16 33 | | n.a. |
| T 3 | 21 53 | 18 49 | 4 51 | 14 33 | 2 35 | 24 10 | 2 4 | 19 2 | 1 15 | 4 36 | 1 22 | 18 22 | 1 27 | 9 5 | 0 46 | 10 53 | 1 52 | 4 11 | 11 33 | 8 57 | 8 23 | 16 33 | | n.a. |
| F 4 | 22 2 | 17 44 | 5 6 | 15 5 | 2 24 | 23 59 | 2 2 | 18 51 | 1 15 | 4 33 | 1 22 | 18 24 | 1 27 | 9 5 | 0 46 | 10 54 | 1 52 | 4 12 | 11 33 | 8 53 | 8 21 | 16 34 | | n.a. |
| S 5 | 22 11 | 15 49 | 5 7 | 15 38 | 2 13 | 23 46 | 2 1 | 18 41 | 1 14 | 4 30 | 1 22 | 18 25 | 1 27 | 9 4 | 0 46 | 10 54 | 1 52 | 4 12 | 11 34 | 8 51 | 8 20 | 16 35 | | n.a. |
| S 6 | 22 19 | 13 8 | 4 53 | 16 11 | 2 1 | 23 33 | 1 59 | 18 30 | 1 13 | 4 27 | 1 23 | 18 27 | 1 27 | 9 4 | 0 46 | 10 55 | 1 52 | 4 12 | 11 34 | 8 49 | 8 19 | 16 36 | | n.a. |
| M 7 | 22 27 | 9 48 | 4 25 | 16 46 | 1 50 | 23 19 | 1 57 | 18 19 | 1 12 | 4 25 | 1 23 | 18 29 | 1 27 | 9 4 | 0 47 | 10 55 | 1 52 | 4 12 | 11 34 | 8 47 | 8 18 | 16 37 | | n.a. |
| T 8 | 22 35 | 5 56 | 3 43 | 17 21 | 1 38 | 23 5 | 1 56 | 18 8 | 1 11 | 4 22 | 1 23 | 18 31 | 1 27 | 9 4 | 0 47 | 10 56 | 1 52 | 4 13 | 11 34 | 8 47 | 8 17 | 16 38 | | n.a. |
| W 9 | 22 42 | 1 40 | 2 48 | 17 56 | 1 25 | 22 50 | 1 54 | 17 57 | 1 10 | 4 20 | 1 23 | 18 33 | 1 27 | 9 4 | 0 47 | 10 57 | 1 52 | 4 13 | 11 34 | 8 47 | 8 15 | 16 39 | | n.a. |
| T 10 | 22 49 | 2n48 | 1 42 | 18 31 | 1 13 | 22 35 | 1 51 | 17 46 | 1 9 | 4 17 | 1 24 | 18 34 | 1 27 | 9 4 | 0 47 | 10 57 | 1 52 | 4 13 | 11 34 | 8 47 | 8 14 | 16 39 | | n.a. |
| F 11 | 22 55 | 7 16 | 0 27 | 19 6 | 1 1 | 22 19 | 1 49 | 17 35 | 1 9 | 4 15 | 1 24 | 18 36 | 1 27 | 9 4 | 0 47 | 10 58 | 1 52 | 4 13 | 11 34 | 8 47 | 8 13 | 16 40 | | n.a. |
| S 12 | 23 1 | 11 25 | 0s50 | 19 41 | 0 48 | 22 3 | 1 47 | 17 23 | 1 8 | 4 12 | 1 24 | 18 38 | 1 27 | 9 4 | 0 47 | 10 58 | 1 52 | 4 14 | 11 34 | 8 47 | 8 12 | 16 41 | | n.a. |
| S 13 | 23 7 | 14 57 | 2 6 | 20 15 | 0 36 | 21 46 | 1 44 | 17 12 | 1 7 | 4 10 | 1 24 | 18 39 | 1 27 | 9 4 | 0 47 | 10 59 | 1 52 | 4 14 | 11 34 | 8 46 | 8 11 | 16 42 | | n.a. |
| M14 | 23 12 | 17 32 | 3 14 | 20 49 | 0 24 | 21 28 | 1 42 | 17 0 | 1 6 | 4 8 | 1 25 | 18 41 | 1 27 | 9 4 | 0 47 | 10 59 | 1 52 | 4 14 | 11 34 | 8 45 | 8 9 | 16 43 | | n.a. |
| T 15 | 23 17 | 18 54 | 4 9 | 21 21 | 0 12 | 21 10 | 1 39 | 16 48 | 1 5 | 4 5 | 1 25 | 18 43 | 1 27 | 9 3 | 0 47 | 11 0 | 1 52 | 4 14 | 11 35 | 8 42 | 8 8 | 16 44 | | n.a. |
| W16 | 23 21 | 18 55 | 4 47 | 21 53 | 0 0 | 20 52 | 1 36 | 16 36 | 1 4 | 4 3 | 1 25 | 18 45 | 1 27 | 9 3 | 0 47 | 11 0 | 1 52 | 4 15 | 11 35 | 8 39 | 8 7 | 16 44 | | n.a. |
| T 17 | 23 25 | 17 37 | 5 4 | 22 22 | 0n11 | 20 33 | 1 33 | 16 24 | 1 4 | 4 1 | 1 26 | 18 46 | 1 27 | 9 4 | 0 47 | 11 1 | 1 52 | 4 15 | 11 35 | 8 36 | 8 6 | 16 45 | | n.a. |
| F 18 | 23 29 | 15 13 | 5 1 | 22 50 | 0 22 | 20 14 | 1 30 | 16 12 | 1 3 | 3 59 | 1 26 | 18 48 | 1 27 | 9 4 | 0 47 | 11 2 | 1 52 | 4 15 | 11 35 | 8 33 | 8 5 | 16 46 | | n.a. |
| S 19 | 23 32 | 11 59 | 4 40 | 23 17 | 0 33 | 19 54 | 1 27 | 16 0 | 1 2 | 3 57 | 1 26 | 18 49 | 1 27 | 9 4 | 0 47 | 11 2 | 1 52 | 4 15 | 11 35 | 8 30 | 8 3 | 16 47 | | n.a. |
| S 20 | 23 34 | 8 13 | 4 3 | 23 40 | 0 42 | 19 34 | 1 23 | 15 48 | 1 1 | 3 55 | 1 26 | 18 51 | 1 27 | 9 4 | 0 47 | 11 3 | 1 52 | 4 15 | 11 35 | 8 28 | 8 2 | 16 48 | | n.a. |
| M21 | 23 37 | 4 10 | 3 15 | 24 2 | 0 52 | 19 14 | 1 20 | 15 35 | 1 0 | 3 53 | 1 27 | 18 53 | 1 27 | 9 4 | 0 47 | 11 3 | 1 52 | 4 16 | 11 35 | 8 27 | 8 1 | 16 48 | | n.a. |
| T 22 | 23 39 | 0 4 | 2 18 | 24 21 | 1 0 | 18 53 | 1 16 | 15 23 | 0 59 | 3 52 | 1 27 | 18 54 | 1 27 | 9 4 | 0 47 | 11 3 | 1 52 | 4 16 | 11 35 | 8 27 | 8 0 | 16 49 | | n.a. |
| W23 | 23 40 | 3s57 | 1 17 | 24 38 | 1 9 | 18 31 | 1 12 | 15 10 | 0 59 | 3 50 | 1 27 | 18 56 | 1 27 | 9 4 | 0 47 | 11 4 | 1 52 | 4 16 | 11 36 | 8 27 | 7 59 | 16 50 | | n.a. |
| T 24 | 23 41 | 7 43 | 0 13 | 24 51 | 1 16 | 18 10 | 1 8 | 14 57 | 0 58 | 3 48 | 1 28 | 18 57 | 1 27 | 9 4 | 0 47 | 11 4 | 1 52 | 4 16 | 11 36 | 8 27 | 7 57 | 16 51 | | n.a. |
| F 25 | 23 42 | 11 8 | 0n50 | 25 2 | 1 22 | 17 48 | 1 4 | 14 44 | 0 57 | 3 47 | 1 28 | 18 59 | 1 27 | 9 4 | 0 47 | 11 5 | 1 52 | 4 16 | 11 36 | 8 27 | 7 56 | 16 52 | | n.a. |
| S 26 | 23 42 | 14 4 | 1 51 | 25 10 | 1 28 | 17 25 | 1 0 | 14 31 | 0 56 | 3 45 | 1 28 | 19 0 | 1 27 | 9 5 | 0 47 | 11 5 | 1 53 | 4 16 | 11 36 | 8 26 | 7 55 | 16 53 | | n.a. |
| S 27 | 23 42 | 16 25 | 2 46 | 25 15 | 1 33 | 17 2 | 0 56 | 14 18 | 0 55 | 3 44 | 1 29 | 19 2 | 1 27 | 9 5 | 0 47 | 11 6 | 1 53 | 4 17 | 11 36 | 8 24 | 7 54 | 16 53 | | n.a. |
| M28 | 23 41 | 18 5 | 3 35 | 25 18 | 1 38 | 16 39 | 0 51 | 14 5 | 0 55 | 3 43 | 1 29 | 19 3 | 1 27 | 9 5 | 0 47 | 11 6 | 1 53 | 4 17 | 11 36 | 8 22 | 7 52 | 16 54 | | n.a. |
| T 29 | 23 40 | 18 58 | 4 14 | 25 18 | 1 41 | 16 16 | 0 47 | 13 51 | 0 54 | 3 41 | 1 29 | 19 5 | 1 27 | 9 5 | 0 47 | 11 7 | 1 53 | 4 17 | 11 36 | 8 18 | 7 51 | 16 55 | | n.a. |
| W30 | 23n39 | 19s 0 | 4n42 | 25n15 | 1n44 | 15n52 | 0n42 | 13n38 | 0n53 | 3s40 | 1s29 | 19n 6 | 1s27 | 9s 5 | 0s47 | 11n 7 | 1s53 | 4n17 | 11s37 | 8s14 | 7s50 | 16s56 | | n.a. |

Julian Day Number = 1688701.5, Delta T = 03h11m38s
Ecliptic obliquity = 23°42'12, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°18'06, Lahiri = - 5°11'06 Julian Calendar 1 June 90 BCE == Greg. Calendar 30 May 090 BCE

The year -89 astronomical counting style corresponds to year 090 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 90 BCE
# geocentric

## JULY 90 BCE (-89) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 22 27 | 4♋40'36 | 12♉33 | 9♋13 | 20♌16 | 27♌10 | 24♓19 | 0♊49 | 8°R47 | 3♉42 | 11♉ 8 | 20°R39 | 19♎46 | 28♏46 | n.a. | T 1 |
| F 2 | 18 26 24 | 5°37'56 | 24°54 | 11°15 | 21°17 | 27°47 | 24°22 | 0°56 | 8♓47 | 3°43 | 11° 9 | 20♎26 | 19°43 | 28°53 | n.a. | F 2 |
| S 3 | 18 30 20 | 6°35'17 | 7♒25 | 13°15 | 22°17 | 28°24 | 24°25 | 1° 3 | 8°46 | 3°45 | 11°10 | 20°15 | 19°40 | 28°59 | n.a. | S 3 |
| S 4 | 18 34 17 | 7°32'38 | 20° 7 | 15°13 | 23°16 | 29° 2 | 24°28 | 1°10 | 8°45 | 3°46 | 11°10 | 20° 5 | 19°37 | 29° 6 | n.a. | S 4 |
| M 5 | 18 38 13 | 8°30'01 | 3♓ 1 | 17°11 | 24°15 | 29°39 | 24°31 | 1°17 | 8°44 | 3°47 | 11°11 | 19°58 | 19°33 | 29°13 | n.a. | M 5 |
| T 6 | 18 42 10 | 9°27'26 | 16° 8 | 19° 6 | 25°14 | 0♍16 | 24°33 | 1°24 | 8°43 | 3°48 | 11°12 | 19°54 | 19°30 | 29°19 | n.a. | T 6 |
| W 7 | 18 46 6 | 10°24'51 | 29°29 | 21° 0 | 26°13 | 0°54 | 24°36 | 1°31 | 8°43 | 3°49 | 11°13 | 19°53 | 19°27 | 29°26 | n.a. | W 7 |
| T 8 | 18 50 3 | 11°22'18 | 13♈ 8 | 22°53 | 27°11 | 1°31 | 24°38 | 1°37 | 8°42 | 3°50 | 11°14 | 19°52 | 19°24 | 29°33 | n.a. | T 8 |
| F 9 | 18 53 59 | 12°19'47 | 27° 4 | 24°44 | 28° 8 | 2° 9 | 24°40 | 1°44 | 8°41 | 3°52 | 11°14 | 19°52 | 19°21 | 29°39 | n.a. | F 9 |
| S 10 | 18 57 56 | 13°17'17 | 11♉19 | 26°33 | 29° 6 | 2°47 | 24°41 | 1°51 | 8°40 | 3°53 | 11°15 | 19°51 | 19°17 | 29°46 | n.a. | S 10 |
| S 11 | 19 1 53 | 14°14'49 | 25°52 | 28°21 | 0♍ 2 | 3°25 | 24°43 | 1°57 | 8°39 | 3°54 | 11°16 | 19°48 | 19°14 | 29°53 | n.a. | S 11 |
| M12 | 19 5 49 | 15°12'22 | 10♊37 | 0♌ 8 | 0°59 | 4° 3 | 24°44 | 2° 4 | 8°37 | 3°55 | 11°17 | 19°42 | 19°11 | 29°59 | n.a. | M12 |
| T 13 | 19 9 46 | 16° 9'56 | 25°30 | 1°52 | 1°55 | 4°41 | 24°45 | 2°10 | 8°36 | 3°56 | 11°17 | 19°34 | 19° 8 | 0♐ 6 | n.a. | T 13 |
| W14 | 19 13 42 | 17° 7'32 | 10♋22 | 3°36 | 2°50 | 5°19 | 24°46 | 2°17 | 8°35 | 3°57 | 11°18 | 19°23 | 19° 5 | 0°13 | n.a. | W14 |
| T 15 | 19 17 39 | 18° 5'10 | 25° 5 | 5°17 | 3°45 | 5°57 | 24°47 | 2°23 | 8°34 | 3°57 | 11°19 | 19°12 | 19° 2 | 0°20 | n.a. | T 15 |
| F 16 | 19 21 35 | 19° 2'48 | 9♌29 | 6°58 | 4°40 | 6°35 | 24°48 | 2°29 | 8°32 | 3°58 | 11°19 | 19° 1 | 18°58 | 0°26 | n.a. | F 16 |
| S 17 | 19 25 32 | 20° 0'28 | 23°30 | 8°37 | 5°33 | 7°13 | 24°48 | 2°35 | 8°31 | 3°59 | 11°20 | 18°51 | 18°55 | 0°33 | n.a. | S 17 |
| S 18 | 19 29 28 | 20°58'09 | 7♍ 4 | 10°14 | 6°27 | 7°52 | 24°R48 | 2°42 | 8°30 | 4° 0 | 11°20 | 18°44 | 18°52 | 0°40 | n.a. | S 18 |
| M19 | 19 33 25 | 21°55'51 | 20°11 | 11°50 | 7°20 | 8°30 | 24°48 | 2°48 | 8°28 | 4° 1 | 11°21 | 18°40 | 18°49 | 0°46 | n.a. | M19 |
| T 20 | 19 37 22 | 22°53'35 | 2♎54 | 13°24 | 8°12 | 9° 9 | 24°48 | 2°54 | 8°27 | 4° 1 | 11°21 | 18°38 | 18°46 | 0°53 | n.a. | T 20 |
| W21 | 19 41 18 | 23°51'19 | 15°15 | 14°57 | 9° 3 | 9°47 | 24°47 | 3° 0 | 8°25 | 4° 2 | 11°22 | 18°37 | 18°43 | 1° 0 | n.a. | W21 |
| T 22 | 19 45 15 | 24°49'05 | 27°21 | 16°29 | 9°54 | 10°26 | 24°47 | 3° 5 | 8°24 | 4° 3 | 11°23 | 18°37 | 18°39 | 1° 6 | n.a. | T 22 |
| F 23 | 19 49 11 | 25°46'52 | 9♏16 | 17°59 | 10°45 | 11° 5 | 24°46 | 3°11 | 8°22 | 4° 3 | 11°23 | 18°36 | 18°36 | 1°13 | n.a. | F 23 |
| S 24 | 19 53 8 | 26°44'41 | 21° 6 | 19°27 | 11°34 | 11°43 | 24°45 | 3°17 | 8°21 | 4° 4 | 11°23 | 18°34 | 18°33 | 1°20 | n.a. | S 24 |
| S 25 | 19 57 4 | 27°42'31 | 2♐55 | 20°54 | 12°23 | 12°22 | 24°44 | 3°23 | 8°19 | 4° 5 | 11°24 | 18°30 | 18°30 | 1°26 | n.a. | S 25 |
| M26 | 20 1 1 | 28°40'22 | 14°49 | 22°19 | 13°11 | 13° 1 | 24°42 | 3°28 | 8°17 | 4° 5 | 11°24 | 18°23 | 18°27 | 1°33 | n.a. | M26 |
| T 27 | 20 4 57 | 29°38'15 | 26°51 | 23°43 | 13°58 | 13°40 | 24°41 | 3°34 | 8°16 | 4° 6 | 11°25 | 18°13 | 18°23 | 1°40 | n.a. | T 27 |
| W28 | 20 8 54 | 0♌36'09 | 9♑ 3 | 25° 6 | 14°45 | 14°19 | 24°39 | 3°39 | 8°14 | 4° 6 | 11°25 | 18° 2 | 18°20 | 1°46 | n.a. | W28 |
| T 29 | 20 12 51 | 1°34'04 | 21°27 | 26°26 | 15°30 | 14°59 | 24°37 | 3°45 | 8°12 | 4° 7 | 11°26 | 17°49 | 18°17 | 1°53 | n.a. | T 29 |
| F 30 | 20 16 47 | 2°32'02 | 4♒ 3 | 27°45 | 16°15 | 15°38 | 24°35 | 3°50 | 8°10 | 4° 7 | 11°26 | 17°36 | 18°14 | 2° 0 | n.a. | F 30 |
| S 31 | 20 20 44 | 3♌30'01 | 16♒52 | 29♌ 3 | 16♍59 | 16♍17 | 24♓32 | 3♊55 | 8♓ 9 | 4♉ 7 | 11♉26 | 17♎25 | 18♎11 | 2♐ 6 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23n37 | 18s 9 | 4n58 | 25n 9 | 1n47 | 15n28 | 0n37 | 13n24 | 0n52 | 3s39 | 1s30 | 19n 8 | 1s27 | 9s 6 | 0s47 | 11n 7 | 1s53 | 4n17 | 11s37 | 8s 9 | 7s49 | 16s56 | | n.a. |
| F 2 | 23 35 | 16 28 | 5 0 | 25 1 | 1 48 | 15 4 | 0 32 | 13 11 | 0 51 | 3 38 | 1 30 | 19 9 | 1 27 | 9 6 | 0 47 | 11 8 | 1 53 | 4 17 | 11 37 | 8 4 | 7 48 | 16 57 | | n.a. |
| S 3 | 23 32 | 13 59 | 4 48 | 24 51 | 1 49 | 14 40 | 0 27 | 12 57 | 0 51 | 3 37 | 1 30 | 19 11 | 1 27 | 9 6 | 0 48 | 11 8 | 1 53 | 4 17 | 11 37 | 8 0 | 7 46 | 16 58 | | n.a. |
| S 4 | 23 29 | 10 48 | 4 21 | 24 38 | 1 49 | 14 15 | 0 22 | 12 43 | 0 50 | 3 36 | 1 31 | 19 12 | 1 27 | 9 7 | 0 48 | 11 8 | 1 53 | 4 17 | 11 37 | 7 56 | 7 45 | 16 59 | | n.a. |
| M 5 | 23 26 | 7 5 | 3 41 | 24 23 | 1 49 | 13 50 | 0 16 | 12 29 | 0 49 | 3 36 | 1 31 | 19 14 | 1 27 | 9 7 | 0 48 | 11 9 | 1 53 | 4 17 | 11 37 | 7 54 | 7 44 | 17 0 | | n.a. |
| T 6 | 23 22 | 2 57 | 2 49 | 24 6 | 1 48 | 13 25 | 0 11 | 12 15 | 0 48 | 3 35 | 1 31 | 19 15 | 1 27 | 9 7 | 0 48 | 11 9 | 1 53 | 4 18 | 11 38 | 7 52 | 7 43 | 17 0 | | n.a. |
| W 7 | 23 17 | 1n25 | 1 46 | 23 47 | 1 46 | 13 0 | 0 5 | 12 1 | 0 47 | 3 34 | 1 32 | 19 16 | 1 27 | 9 8 | 0 48 | 11 10 | 1 53 | 4 18 | 11 38 | 7 51 | 7 42 | 17 1 | | n.a. |
| T 8 | 23 13 | 5 47 | 0 36 | 23 27 | 1 44 | 12 35 | 0s 1 | 11 47 | 0 47 | 3 34 | 1 32 | 19 18 | 1 27 | 9 8 | 0 48 | 11 10 | 1 53 | 4 18 | 11 38 | 7 51 | 7 40 | 17 2 | | n.a. |
| F 9 | 23 7 | 9 57 | 0s38 | 23 5 | 1 41 | 12 9 | 0 7 | 11 32 | 0 46 | 3 33 | 1 32 | 19 19 | 1 27 | 9 8 | 0 48 | 11 10 | 1 53 | 4 18 | 11 38 | 7 51 | 7 39 | 17 3 | | n.a. |
| S 10 | 23 2 | 13 38 | 1 51 | 22 41 | 1 38 | 11 43 | 0 13 | 11 18 | 0 45 | 3 33 | 1 32 | 19 20 | 1 27 | 9 9 | 0 48 | 11 10 | 1 53 | 4 18 | 11 38 | 7 51 | 7 38 | 17 3 | | n.a. |
| S 11 | 22 56 | 16 33 | 2 58 | 22 16 | 1 34 | 11 17 | 0 19 | 11 3 | 0 44 | 3 32 | 1 33 | 19 22 | 1 27 | 9 9 | 0 48 | 11 11 | 1 53 | 4 18 | 11 38 | 7 50 | 7 37 | 17 4 | | n.a. |
| M12 | 22 50 | 18 25 | 3 54 | 21 49 | 1 30 | 10 51 | 0 25 | 10 49 | 0 44 | 3 32 | 1 33 | 19 23 | 1 27 | 9 10 | 0 48 | 11 11 | 1 53 | 4 18 | 11 39 | 7 47 | 7 35 | 17 5 | | n.a. |
| T 13 | 22 43 | 19 3 | 4 35 | 21 21 | 1 26 | 10 25 | 0 32 | 10 34 | 0 43 | 3 32 | 1 33 | 19 24 | 1 27 | 9 10 | 0 48 | 11 11 | 1 53 | 4 18 | 11 39 | 7 44 | 7 34 | 17 6 | | n.a. |
| W14 | 22 36 | 18 22 | 4 57 | 20 52 | 1 21 | 9 59 | 0 38 | 10 19 | 0 42 | 3 32 | 1 34 | 19 25 | 1 27 | 9 11 | 0 48 | 11 12 | 1 53 | 4 18 | 11 39 | 7 40 | 7 33 | 17 6 | | n.a. |
| T 15 | 22 28 | 16 27 | 4 59 | 20 23 | 1 16 | 9 32 | 0 45 | 10 4 | 0 41 | 3 32 | 1 34 | 19 27 | 1 27 | 9 11 | 0 48 | 11 12 | 1 54 | 4 18 | 11 39 | 7 36 | 7 32 | 17 7 | | n.a. |
| F 16 | 22 20 | 13 33 | 4 42 | 19 52 | 1 10 | 9 6 | 0 52 | 9 49 | 0 40 | 3 32 | 1 34 | 19 28 | 1 27 | 9 12 | 0 48 | 11 12 | 1 54 | 4 18 | 11 39 | 7 32 | 7 31 | 17 8 | | n.a. |
| S 17 | 22 12 | 9 56 | 4 8 | 19 20 | 1 4 | 8 40 | 0 59 | 9 34 | 0 40 | 3 32 | 1 35 | 19 29 | 1 27 | 9 12 | 0 48 | 11 12 | 1 54 | 4 18 | 11 40 | 7 28 | 7 29 | 17 9 | | n.a. |
| S 18 | 22 3 | 5 54 | 3 21 | 18 48 | 0 58 | 8 13 | 1 6 | 9 19 | 0 39 | 3 32 | 1 35 | 19 30 | 1 27 | 9 13 | 0 48 | 11 13 | 1 54 | 4 18 | 11 40 | 7 25 | 7 28 | 17 9 | | n.a. |
| M19 | 21 54 | 1 43 | 2 24 | 18 15 | 0 51 | 7 47 | 1 13 | 9 4 | 0 38 | 3 33 | 1 35 | 19 31 | 1 27 | 9 13 | 0 48 | 11 13 | 1 54 | 4 18 | 11 40 | 7 23 | 7 27 | 17 10 | | n.a. |
| T 20 | 21 44 | 2s25 | 1 22 | 17 41 | 0 44 | 7 20 | 1 21 | 8 48 | 0 37 | 3 33 | 1 36 | 19 32 | 1 27 | 9 14 | 0 48 | 11 13 | 1 54 | 4 18 | 11 40 | 7 23 | 7 26 | 17 11 | | n.a. |
| W21 | 21 34 | 6 21 | 0 18 | 17 7 | 0 37 | 6 54 | 1 28 | 8 33 | 0 37 | 3 33 | 1 36 | 19 33 | 1 27 | 9 15 | 0 48 | 11 13 | 1 54 | 4 18 | 11 40 | 7 22 | 7 25 | 17 11 | | n.a. |
| T 22 | 21 24 | 9 55 | 0n46 | 16 33 | 0 30 | 6 28 | 1 36 | 8 17 | 0 36 | 3 34 | 1 36 | 19 35 | 1 27 | 9 15 | 0 48 | 11 13 | 1 54 | 4 18 | 11 41 | 7 22 | 7 23 | 17 12 | | n.a. |
| F 23 | 21 13 | 13 3 | 1 47 | 15 58 | 0 22 | 6 1 | 1 44 | 8 2 | 0 35 | 3 34 | 1 36 | 19 36 | 1 28 | 9 16 | 0 48 | 11 13 | 1 54 | 4 18 | 11 41 | 7 22 | 7 22 | 17 13 | | n.a. |
| S 24 | 21 2 | 15 37 | 2 43 | 15 22 | 0 14 | 5 35 | 1 52 | 7 46 | 0 34 | 3 35 | 1 37 | 19 37 | 1 28 | 9 16 | 0 48 | 11 14 | 1 54 | 4 18 | 11 41 | 7 21 | 7 21 | 17 14 | | n.a. |
| S 25 | 20 51 | 17 31 | 3 32 | 14 47 | 0 6 | 5 9 | 2 0 | 7 31 | 0 34 | 3 36 | 1 37 | 19 38 | 1 28 | 9 17 | 0 48 | 11 14 | 1 54 | 4 18 | 11 41 | 7 20 | 7 20 | 17 14 | | n.a. |
| M26 | 20 39 | 18 40 | 4 12 | 14 11 | 0s 2 | 4 43 | 2 8 | 7 15 | 0 33 | 3 37 | 1 37 | 19 39 | 1 28 | 9 18 | 0 48 | 11 14 | 1 54 | 4 18 | 11 41 | 7 17 | 7 18 | 17 15 | | n.a. |
| T 27 | 20 27 | 18 59 | 4 41 | 13 36 | 0 11 | 4 17 | 2 16 | 6 59 | 0 32 | 3 38 | 1 38 | 19 40 | 1 28 | 9 18 | 0 48 | 11 14 | 1 54 | 4 17 | 11 42 | 7 13 | 7 17 | 17 16 | | n.a. |
| W28 | 20 15 | 18 27 | 4 57 | 13 0 | 0 19 | 3 51 | 2 25 | 6 43 | 0 31 | 3 39 | 1 38 | 19 41 | 1 28 | 9 19 | 0 48 | 11 14 | 1 54 | 4 17 | 11 42 | 7 9 | 7 16 | 17 16 | | n.a. |
| T 29 | 20 2 | 17 2 | 5 0 | 12 24 | 0 28 | 3 25 | 2 33 | 6 27 | 0 31 | 3 40 | 1 38 | 19 42 | 1 28 | 9 20 | 0 48 | 11 14 | 1 54 | 4 17 | 11 42 | 7 4 | 7 15 | 17 17 | | n.a. |
| F 30 | 19 49 | 14 47 | 4 49 | 11 48 | 0 37 | 3 0 | 2 42 | 6 11 | 0 30 | 3 41 | 1 39 | 19 43 | 1 28 | 9 20 | 0 48 | 11 14 | 1 54 | 4 17 | 11 42 | 6 59 | 7 14 | 17 18 | | n.a. |
| S 31 | 19n35 | 11s47 | 4n23 | 11n13 | 0s46 | 2n34 | 2s51 | 5n55 | 0n29 | 3s42 | 1s39 | 19n44 | 1s28 | 9s21 | 0s48 | 11n14 | 1s55 | 4n17 | 11s42 | 6s55 | 7s12 | 17s19 | | n.a. |

Julian Day Number = 1688731.5, Delta T = 03h11m37s
Ecliptic obliquity = 23°42'12, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°18'02, Lahiri = - 5°11'02 Julian Calendar 1 July 90 BCE == Greg. Calendar 29 June 090 BCE

The year -89 astronomical counting style corresponds to year 090 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 90 BCE
# geocentric

## AUGUST 90 BCE (-89) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 24 40 | 4♌28'01 | 29♒53 | 0♍18 | 17♍42 | 16♍56 | 24°R30 | 4♊ 1 | 8°R 7 | 4♉ 8 | 11♉27 | 17°R15 | 18♎ 8 | 2♐13 | n.a. | S 1 |
| M 2 | 20 28 37 | 5°26'04 | 13♓ 5 | 1°32 | 18°24 | 17°36 | 24♓27 | 4° 6 | 8♓ 5 | 4° 8 | 11°27 | 17♎ 9 | 18° 4 | 2°20 | n.a. | M 2 |
| T 3 | 20 32 33 | 6°24'09 | 26°28 | 2°44 | 19° 5 | 18°15 | 24°24 | 4°11 | 8° 3 | 4° 8 | 11°27 | 17° 5 | 18° 1 | 2°27 | n.a. | T 3 |
| W 4 | 20 36 30 | 7°22'15 | 10♈ 1 | 3°54 | 19°45 | 18°55 | 24°21 | 4°16 | 8° 1 | 4° 9 | 11°27 | 17° 3 | 17°58 | 2°33 | n.a. | W 4 |
| T 5 | 20 40 26 | 8°20'24 | 23°46 | 5° 2 | 20°24 | 19°35 | 24°17 | 4°21 | 7°59 | 4° 9 | 11°28 | 17°D 3 | 17°55 | 2°40 | n.a. | T 5 |
| F 6 | 20 44 23 | 9°18'35 | 7♉41 | 6° 8 | 21° 1 | 20°15 | 24°14 | 4°25 | 7°57 | 4° 9 | 11°28 | 17°R 3 | 17°52 | 2°47 | n.a. | F 6 |
| S 7 | 20 48 20 | 10°16'48 | 21°48 | 7°11 | 21°38 | 20°54 | 24°10 | 4°30 | 7°55 | 4° 9 | 11°28 | 17° 3 | 17°49 | 2°53 | n.a. | S 7 |
| S 8 | 20 52 16 | 11°15'03 | 6♊ 4 | 8°12 | 22°13 | 21°34 | 24° 6 | 4°35 | 7°53 | 4° 9 | 11°28 | 17° 0 | 17°45 | 3° 0 | n.a. | S 8 |
| M 9 | 20 56 13 | 12°13'20 | 20°29 | 9°11 | 22°47 | 22°14 | 24° 2 | 4°39 | 7°51 | 4° 9 | 11°28 | 16°56 | 17°42 | 3° 7 | n.a. | M 9 |
| T 10 | 21 0 9 | 13°11'40 | 4♋58 | 10° 7 | 23°20 | 22°54 | 23°58 | 4°44 | 7°49 | 4° 9 | 11°28 | 16°49 | 17°39 | 3°13 | n.a. | T 10 |
| W11 | 21 4 6 | 14°10'01 | 19°26 | 11° 0 | 23°51 | 23°34 | 23°53 | 4°48 | 7°46 | 4°R 9 | 11°28 | 16°40 | 17°36 | 3°20 | n.a. | W11 |
| T 12 | 21 8 2 | 15° 8'25 | 3♌46 | 11°50 | 24°21 | 24°15 | 23°49 | 4°53 | 7°44 | 4° 9 | 11°29 | 16°30 | 17°33 | 3°27 | n.a. | T 12 |
| F 13 | 21 11 59 | 16° 6'51 | 17°52 | 12°36 | 24°49 | 24°55 | 23°44 | 4°57 | 7°42 | 4° 9 | 11°29 | 16°20 | 17°29 | 3°33 | n.a. | F 13 |
| S 14 | 21 15 55 | 17° 5'18 | 1♍40 | 13°19 | 25°16 | 25°35 | 23°39 | 5° 1 | 7°40 | 4° 9 | 11°29 | 16°12 | 17°26 | 3°40 | n.a. | S 14 |
| S 15 | 21 19 52 | 18° 3'48 | 15° 6 | 13°59 | 25°42 | 26°16 | 23°34 | 5° 5 | 7°38 | 4° 9 | 11°R29 | 16° 6 | 17°23 | 3°47 | n.a. | S 15 |
| M16 | 21 23 49 | 19° 2'19 | 28° 9 | 14°34 | 26° 5 | 26°56 | 23°28 | 5° 9 | 7°35 | 4° 9 | 11°29 | 16° 2 | 17°20 | 3°53 | n.a. | M16 |
| T 17 | 21 27 45 | 20° 0'52 | 10♎50 | 15° 5 | 26°27 | 27°37 | 23°23 | 5°13 | 7°33 | 4° 9 | 11°29 | 16°D 0 | 17°17 | 4° 0 | n.a. | T 17 |
| W18 | 21 31 42 | 20°59'27 | 23°12 | 15°31 | 26°47 | 28°17 | 23°17 | 5°16 | 7°31 | 4° 9 | 11°29 | 16° 0 | 17°14 | 4° 7 | n.a. | W18 |
| T 19 | 21 35 38 | 21°58'04 | 5♏18 | 15°52 | 27° 5 | 28°58 | 23°11 | 5°20 | 7°29 | 4° 8 | 11°28 | 16° 1 | 17°10 | 4°14 | n.a. | T 19 |
| F 20 | 21 39 35 | 22°56'42 | 17°14 | 16° 7 | 27°22 | 29°39 | 23° 6 | 5°24 | 7°26 | 4° 8 | 11°28 | 16°R 2 | 17° 7 | 4°20 | n.a. | F 20 |
| S 21 | 21 43 31 | 23°55'23 | 29° 5 | 16°17 | 27°36 | 0♎20 | 22°59 | 5°27 | 7°24 | 4° 8 | 11°28 | 16° 2 | 17° 4 | 4°27 | n.a. | S 21 |
| S 22 | 21 47 28 | 24°54'05 | 10♐57 | 16°R21 | 27°49 | 1° 1 | 22°53 | 5°30 | 7°22 | 4° 7 | 11°28 | 16° 1 | 17° 1 | 4°34 | n.a. | S 22 |
| M23 | 21 51 24 | 25°52'49 | 22°53 | 16°18 | 27°59 | 1°42 | 22°47 | 5°34 | 7°19 | 4° 7 | 11°28 | 15°57 | 16°58 | 4°40 | n.a. | M23 |
| T 24 | 21 55 21 | 26°51'34 | 4♑58 | 16° 9 | 28° 7 | 2°23 | 22°40 | 5°37 | 7°17 | 4° 7 | 11°28 | 15°51 | 16°55 | 4°47 | n.a. | T 24 |
| W25 | 21 59 17 | 27°50'22 | 17°16 | 15°52 | 28°13 | 3° 4 | 22°34 | 5°40 | 7°14 | 4° 6 | 11°28 | 15°44 | 16°51 | 4°54 | n.a. | W25 |
| T 26 | 22 3 14 | 28°49'12 | 29°50 | 15°29 | 28°17 | 3°45 | 22°27 | 5°43 | 7°12 | 4° 6 | 11°27 | 15°36 | 16°48 | 5° 0 | n.a. | T 26 |
| F 27 | 22 7 11 | 29°48'03 | 12♒40 | 14°58 | 28°R18 | 4°26 | 22°20 | 5°46 | 7°10 | 4° 5 | 11°27 | 15°28 | 16°45 | 5° 7 | n.a. | F 27 |
| S 28 | 22 11 7 | 0♍46'57 | 25°47 | 14°19 | 28°17 | 5° 8 | 22°13 | 5°49 | 7° 7 | 4° 5 | 11°27 | 15°20 | 16°42 | 5°14 | n.a. | S 28 |
| S 29 | 22 15 4 | 1°45'52 | 9♓10 | 13°34 | 28°14 | 5°49 | 22° 6 | 5°51 | 7° 5 | 4° 4 | 11°27 | 15°14 | 16°39 | 5°20 | n.a. | S 29 |
| M30 | 22 19 0 | 2°44'50 | 22°46 | 12°42 | 28° 8 | 6°30 | 21°59 | 5°54 | 7° 2 | 4° 3 | 11°26 | 15°10 | 16°35 | 5°27 | n.a. | M30 |
| T 31 | 22 22 57 | 3♍43'50 | 6♈33 | 11♍44 | 28♍ 0 | 7♎12 | 21♓52 | 5♊56 | 7♓ 0 | 4♉ 3 | 11♉26 | 15♎ 8 | 16♎32 | 5♐34 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| S 1 | 19n21 | 8s10 | 3n43 | 10n38 | 0s55 | 2n 9 | 3s 0 | 5n39 | 0n28 | 3s43 | 1s39 | 19n45 | 1s28 | 9s22 | 0s48 | 11n14 | 1s55 | 4n17 | 11s43 | 6s51 | 7s11 | 17s19 | | | n.a. |
| M 2 | 19 7 | 4 6 | 2 50 | 10 3 | 1 4 | 1 45 | 3 9 | 5 22 | 0 27 | 3 45 | 1 39 | 19 45 | 1 28 | 9 23 | 0 48 | 11 14 | 1 55 | 4 17 | 11 43 | 6 48 | 7 10 | 17 20 | | | n.a. |
| T 3 | 18 53 | 0n13 | 1 47 | 9 28 | 1 14 | 1 20 | 3 18 | 5 6 | 0 27 | 3 46 | 1 40 | 19 46 | 1 28 | 9 23 | 0 48 | 11 14 | 1 55 | 4 17 | 11 43 | 6 47 | 7 9 | 17 21 | | | n.a. |
| W 4 | 18 38 | 4 35 | 0 37 | 8 54 | 1 23 | 0 56 | 3 27 | 4 50 | 0 26 | 3 48 | 1 40 | 19 47 | 1 28 | 9 24 | 0 48 | 11 14 | 1 55 | 4 17 | 11 43 | 6 46 | 7 7 | 17 21 | | | n.a. |
| T 5 | 18 23 | 8 46 | 0s36 | 8 20 | 1 32 | 0 32 | 3 37 | 4 33 | 0 25 | 3 49 | 1 40 | 19 48 | 1 28 | 9 25 | 0 48 | 11 15 | 1 55 | 4 16 | 11 43 | 6 46 | 7 6 | 17 22 | | | n.a. |
| F 6 | 18 7 | 12 32 | 1 48 | 7 47 | 1 42 | 0 8 | 3 46 | 4 17 | 0 25 | 3 51 | 1 40 | 19 49 | 1 28 | 9 26 | 0 48 | 11 15 | 1 55 | 4 16 | 11 44 | 6 46 | 7 5 | 17 23 | | | n.a. |
| S 7 | 17 52 | 15 37 | 2 54 | 7 15 | 1 51 | 0s15 | 3 56 | 4 0 | 0 24 | 3 53 | 1 41 | 19 50 | 1 28 | 9 27 | 0 49 | 11 14 | 1 55 | 4 16 | 11 44 | 6 46 | 7 4 | 17 23 | | | n.a. |
| S 8 | 17 36 | 17 47 | 3 50 | 6 43 | 2 0 | 0 38 | 4 5 | 3 44 | 0 23 | 3 55 | 1 41 | 19 50 | 1 28 | 9 27 | 0 49 | 11 14 | 1 55 | 4 16 | 11 44 | 6 45 | 7 3 | 17 24 | | | n.a. |
| M 9 | 17 19 | 18 50 | 4 32 | 6 13 | 2 10 | 1 0 | 4 15 | 3 27 | 0 22 | 3 56 | 1 41 | 19 51 | 1 28 | 9 28 | 0 49 | 11 14 | 1 55 | 4 16 | 11 44 | 6 43 | 7 1 | 17 25 | | | n.a. |
| T 10 | 17 3 | 18 39 | 4 57 | 5 43 | 2 19 | 1 22 | 4 25 | 3 10 | 0 22 | 3 58 | 1 42 | 19 52 | 1 29 | 9 29 | 0 49 | 11 14 | 1 55 | 4 16 | 11 45 | 6 41 | 7 0 | 17 25 | | | n.a. |
| W11 | 16 46 | 17 16 | 5 3 | 5 15 | 2 28 | 1 44 | 4 35 | 2 54 | 0 21 | 4 0 | 1 42 | 19 53 | 1 29 | 9 30 | 0 49 | 11 14 | 1 55 | 4 16 | 11 45 | 6 37 | 6 59 | 17 26 | | | n.a. |
| T 12 | 16 28 | 14 49 | 4 50 | 4 47 | 2 37 | 2 5 | 4 45 | 2 37 | 0 20 | 4 3 | 1 42 | 19 53 | 1 29 | 9 31 | 0 49 | 11 14 | 1 55 | 4 15 | 11 45 | 6 33 | 6 58 | 17 27 | | | n.a. |
| F 13 | 16 11 | 11 32 | 4 20 | 4 21 | 2 46 | 2 25 | 4 55 | 2 20 | 0 19 | 4 5 | 1 42 | 19 54 | 1 29 | 9 31 | 0 49 | 11 14 | 1 55 | 4 15 | 11 45 | 6 30 | 6 56 | 17 27 | | | n.a. |
| S 14 | 15 53 | 7 40 | 3 34 | 3 57 | 2 54 | 2 45 | 5 5 | 2 3 | 0 19 | 4 7 | 1 42 | 19 55 | 1 29 | 9 32 | 0 49 | 11 14 | 1 55 | 4 15 | 11 45 | 6 26 | 6 55 | 17 28 | | | n.a. |
| S 15 | 15 35 | 3 31 | 2 38 | 3 34 | 3 3 | 3 4 | 5 15 | 1 46 | 0 18 | 4 9 | 1 43 | 19 55 | 1 29 | 9 33 | 0 49 | 11 14 | 1 55 | 4 15 | 11 46 | 6 24 | 6 54 | 17 29 | | | n.a. |
| M16 | 15 17 | 0s42 | 1 34 | 3 13 | 3 11 | 3 23 | 5 25 | 1 30 | 0 17 | 4 11 | 1 43 | 19 56 | 1 29 | 9 34 | 0 49 | 11 14 | 1 56 | 4 15 | 11 46 | 6 22 | 6 53 | 17 29 | | | n.a. |
| T 17 | 14 58 | 4 45 | 0 28 | 2 54 | 3 18 | 3 41 | 5 35 | 1 13 | 0 16 | 4 14 | 1 43 | 19 57 | 1 29 | 9 35 | 0 49 | 11 14 | 1 56 | 4 14 | 11 46 | 6 22 | 6 51 | 17 30 | | | n.a. |
| W18 | 14 39 | 8 31 | 0n39 | 2 37 | 3 25 | 3 58 | 5 45 | 0 56 | 0 16 | 4 16 | 1 43 | 19 57 | 1 29 | 9 36 | 0 49 | 11 14 | 1 56 | 4 14 | 11 46 | 6 22 | 6 50 | 17 30 | | | n.a. |
| T 19 | 14 20 | 11 50 | 1 42 | 2 23 | 3 32 | 4 15 | 5 55 | 0 39 | 0 15 | 4 19 | 1 44 | 19 58 | 1 29 | 9 37 | 0 49 | 11 14 | 1 56 | 4 14 | 11 46 | 6 22 | 6 49 | 17 31 | | | n.a. |
| F 20 | 14 1 | 14 37 | 2 40 | 2 11 | 3 38 | 4 31 | 6 5 | 0 21 | 0 14 | 4 21 | 1 44 | 19 58 | 1 29 | 9 37 | 0 49 | 11 13 | 1 56 | 4 14 | 11 47 | 6 23 | 6 48 | 17 32 | | | n.a. |
| S 21 | 13 42 | 16 45 | 3 31 | 2 2 | 3 44 | 4 45 | 6 15 | 0 4 | 0 13 | 4 24 | 1 44 | 19 59 | 1 29 | 9 38 | 0 49 | 11 13 | 1 56 | 4 13 | 11 47 | 6 23 | 6 47 | 17 32 | | | n.a. |
| S 22 | 13 22 | 18 10 | 4 12 | 1 57 | 3 48 | 4 59 | 6 25 | 0s13 | 0 13 | 4 27 | 1 44 | 20 0 | 1 29 | 9 39 | 0 49 | 11 13 | 1 56 | 4 13 | 11 47 | 6 22 | 6 45 | 17 33 | | | n.a. |
| M23 | 13 2 | 18 48 | 4 43 | 1 55 | 3 52 | 5 12 | 6 34 | 0 30 | 0 12 | 4 29 | 1 44 | 20 0 | 1 30 | 9 40 | 0 49 | 11 13 | 1 56 | 4 13 | 11 47 | 6 21 | 6 44 | 17 34 | | | n.a. |
| T 24 | 12 42 | 18 35 | 5 2 | 1 56 | 3 54 | 5 24 | 6 44 | 0 47 | 0 11 | 4 32 | 1 44 | 20 0 | 1 30 | 9 41 | 0 49 | 11 13 | 1 56 | 4 13 | 11 48 | 6 18 | 6 43 | 17 34 | | | n.a. |
| W25 | 12 21 | 17 29 | 5 8 | 2 1 | 3 55 | 5 35 | 6 53 | 1 4 | 0 11 | 4 35 | 1 45 | 20 1 | 1 30 | 9 42 | 0 49 | 11 12 | 1 56 | 4 12 | 11 48 | 6 16 | 6 42 | 17 35 | | | n.a. |
| T 26 | 12 1 | 15 33 | 4 58 | 2 10 | 3 55 | 5 45 | 7 3 | 1 21 | 0 10 | 4 38 | 1 45 | 20 1 | 1 30 | 9 43 | 0 49 | 11 12 | 1 56 | 4 12 | 11 48 | 6 12 | 6 40 | 17 35 | | | n.a. |
| F 27 | 11 40 | 12 49 | 4 34 | 2 24 | 3 54 | 5 54 | 7 12 | 1 39 | 0 9 | 4 41 | 1 45 | 20 2 | 1 30 | 9 44 | 0 49 | 11 12 | 1 56 | 4 12 | 11 48 | 6 9 | 6 39 | 17 36 | | | n.a. |
| S 28 | 11 19 | 9 23 | 3 55 | 2 42 | 3 51 | 6 2 | 7 20 | 1 56 | 0 8 | 4 44 | 1 45 | 20 2 | 1 30 | 9 45 | 0 49 | 11 12 | 1 56 | 4 12 | 11 48 | 6 6 | 6 38 | 17 37 | | | n.a. |
| S 29 | 10 58 | 5 25 | 3 2 | 3 4 | 3 45 | 6 8 | 7 29 | 2 13 | 0 8 | 4 46 | 1 45 | 20 3 | 1 30 | 9 46 | 0 49 | 11 12 | 1 56 | 4 11 | 11 49 | 6 4 | 6 37 | 17 37 | | | n.a. |
| M30 | 10 36 | 1 6 | 1 58 | 3 30 | 3 39 | 6 13 | 7 37 | 2 30 | 0 7 | 4 49 | 1 45 | 20 3 | 1 30 | 9 46 | 0 49 | 11 11 | 1 56 | 4 11 | 11 49 | 6 2 | 6 35 | 17 38 | | | n.a. |
| T 31 | 10n15 | 3n20 | 0n46 | 4n 1 | 3s30 | 6s17 | 7s45 | 2s48 | 0n 6 | 4s53 | 1s46 | 20n 3 | 1s30 | 9s47 | 0s49 | 11n11 | 1s56 | 4n11 | 11s49 | 6s 1 | 6s34 | 17s38 | | | n.a. |

Julian Day Number = 1688762.5, Delta T = 03h11m36s
Ecliptic obliquity = 23°42'12, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°17'58, Lahiri = - 5°10'57 Julian Calendar 1 Aug. 90 BCE == Greg. Calendar 30 July 090 BCE

The year -89 astronomical counting style corresponds to year 090 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 90 BCE
# geocentric

## SEPTEMBER 90 BCE (-89) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 22 26 53 | 4♍42'52 | 20♈29 | 10°R42 | 27°R49 | 7♎54 | 21°R44 | 5♊59 | 6°R58 | 4°R 2 | 11°R26 | 15°D 8 | 16♎29 | 5♐40 | n.a. | W 1 |
| T 2 | 22 30 50 | 5°41'57 | 4♉31 | 9♍35 | 27♍36 | 8°35 | 21♓37 | 6° 1 | 6♓55 | 4♉ 1 | 11♉25 | 15♎ 9 | 16°26 | 5°47 | n.a. | T 2 |
| F 3 | 22 34 46 | 6°41'04 | 18°38 | 8°27 | 27°21 | 9°17 | 21°29 | 6° 3 | 6°53 | 4° 1 | 11°25 | 15°10 | 16°23 | 5°54 | n.a. | F 3 |
| S 4 | 22 38 43 | 7°40'13 | 2♊47 | 7°18 | 27° 3 | 9°59 | 21°22 | 6° 5 | 6°50 | 4° 0 | 11°24 | 15°R11 | 16°20 | 6° 1 | n.a. | S 4 |
| S 5 | 22 42 40 | 8°39'25 | 16°57 | 6°11 | 26°43 | 10°41 | 21°14 | 6° 7 | 6°48 | 3°59 | 11°24 | 15°11 | 16°16 | 6° 7 | n.a. | S 5 |
| M 6 | 22 46 36 | 9°38'40 | 1♋ 7 | 5° 6 | 26°21 | 11°23 | 21° 6 | 6° 9 | 6°46 | 3°58 | 11°24 | 15° 9 | 16°13 | 6°14 | n.a. | M 6 |
| T 7 | 22 50 33 | 10°37'56 | 15°13 | 4° 7 | 25°57 | 12° 5 | 20°58 | 6°11 | 6°43 | 3°58 | 11°23 | 15° 6 | 16°10 | 6°21 | n.a. | T 7 |
| W 8 | 22 54 29 | 11°37'16 | 29°14 | 3°14 | 25°31 | 12°47 | 20°51 | 6°12 | 6°41 | 3°57 | 11°23 | 15° 1 | 16° 7 | 6°27 | n.a. | W 8 |
| T 9 | 22 58 26 | 12°36'37 | 13♌ 6 | 2°30 | 25° 3 | 13°29 | 20°43 | 6°14 | 6°38 | 3°56 | 11°22 | 14°56 | 16° 4 | 6°34 | n.a. | T 9 |
| F 10 | 23 2 22 | 13°36'01 | 26°46 | 1°55 | 24°33 | 14°11 | 20°35 | 6°15 | 6°36 | 3°55 | 11°22 | 14°51 | 16° 0 | 6°41 | n.a. | F 10 |
| S 11 | 23 6 19 | 14°35'27 | 10♍12 | 1°29 | 24° 2 | 14°53 | 20°27 | 6°16 | 6°34 | 3°54 | 11°21 | 14°47 | 15°57 | 6°47 | n.a. | S 11 |
| S 12 | 23 10 15 | 15°34'55 | 23°20 | 1°15 | 23°29 | 15°36 | 20°18 | 6°18 | 6°31 | 3°53 | 11°20 | 14°43 | 15°54 | 6°54 | n.a. | S 12 |
| M13 | 23 14 12 | 16°34'26 | 6♎11 | 1°D11 | 22°56 | 16°18 | 20°10 | 6°19 | 6°29 | 3°52 | 11°20 | 14°42 | 15°51 | 7° 1 | n.a. | M13 |
| T 14 | 23 18 8 | 17°33'58 | 18°45 | 1°19 | 22°21 | 17° 1 | 20° 2 | 6°20 | 6°26 | 3°51 | 11°19 | 14°D42 | 15°48 | 7° 7 | n.a. | T 14 |
| W15 | 23 22 5 | 18°33'32 | 1♏ 3 | 1°37 | 21°45 | 17°43 | 19°54 | 6°20 | 6°24 | 3°50 | 11°19 | 14°42 | 15°45 | 7°14 | n.a. | W15 |
| T 16 | 23 26 2 | 19°33'08 | 13° 9 | 2° 5 | 21° 9 | 18°26 | 19°46 | 6°21 | 6°22 | 3°49 | 11°18 | 14°44 | 15°41 | 7°21 | n.a. | T 16 |
| F 17 | 23 29 58 | 20°32'47 | 25° 5 | 2°42 | 20°32 | 19° 9 | 19°38 | 6°22 | 6°19 | 3°48 | 11°17 | 14°46 | 15°38 | 7°28 | n.a. | F 17 |
| S 18 | 23 33 55 | 21°32'27 | 6♐56 | 3°28 | 19°56 | 19°51 | 19°30 | 6°22 | 6°17 | 3°46 | 11°17 | 14°47 | 15°35 | 7°34 | n.a. | S 18 |
| S 19 | 23 37 51 | 22°32'09 | 18°47 | 4°22 | 19°19 | 20°34 | 19°22 | 6°23 | 6°15 | 3°45 | 11°16 | 14°R48 | 15°32 | 7°41 | n.a. | S 19 |
| M20 | 23 41 48 | 23°31'52 | 0♑43 | 5°24 | 18°43 | 21°17 | 19°14 | 6°23 | 6°12 | 3°44 | 11°15 | 14°48 | 15°29 | 7°48 | n.a. | M20 |
| T 21 | 23 45 44 | 24°31'38 | 12°48 | 6°31 | 18° 8 | 22° 0 | 19° 6 | 6°23 | 6°10 | 3°43 | 11°15 | 14°47 | 15°26 | 7°54 | n.a. | T 21 |
| W22 | 23 49 41 | 25°31'25 | 25° 8 | 7°44 | 17°34 | 22°43 | 18°58 | 6°R23 | 6° 8 | 3°42 | 11°14 | 14°45 | 15°22 | 8° 1 | n.a. | W22 |
| T 23 | 23 53 37 | 26°31'14 | 7♒44 | 9° 2 | 17° 1 | 23°26 | 18°50 | 6°23 | 6° 6 | 3°40 | 11°13 | 14°42 | 15°19 | 8° 8 | n.a. | T 23 |
| F 24 | 23 57 34 | 27°31'05 | 20°42 | 10°24 | 16°29 | 24° 9 | 18°42 | 6°23 | 6° 3 | 3°39 | 11°12 | 14°40 | 15°16 | 8°14 | n.a. | F 24 |
| S 25 | 0 1 31 | 28°30'58 | 4♓ 0 | 11°50 | 15°58 | 24°52 | 18°34 | 6°22 | 6° 1 | 3°38 | 11°11 | 14°37 | 15°13 | 8°21 | n.a. | S 25 |
| S 26 | 0 5 27 | 29°30'53 | 17°40 | 13°18 | 15°30 | 25°36 | 18°26 | 6°22 | 5°59 | 3°36 | 11°11 | 14°36 | 15°10 | 8°28 | n.a. | S 26 |
| M27 | 0 9 24 | 0♎30'50 | 1♈38 | 14°49 | 15° 3 | 26°19 | 18°18 | 6°22 | 5°57 | 3°35 | 11°10 | 14°34 | 15° 6 | 8°34 | n.a. | M27 |
| T 28 | 0 13 20 | 1°30'48 | 15°52 | 16°22 | 14°38 | 27° 2 | 18°11 | 6°21 | 5°55 | 3°34 | 11° 9 | 14°D34 | 15° 3 | 8°41 | n.a. | T 28 |
| W29 | 0 17 17 | 2°30'49 | 0♉16 | 17°57 | 14°15 | 27°46 | 18° 3 | 6°20 | 5°53 | 3°32 | 11° 8 | 14°34 | 15° 0 | 8°48 | n.a. | W29 |
| T 30 | 0 21 13 | 3♎30'52 | 14♉46 | 19♍32 | 13♍55 | 28♎29 | 17♓55 | 6♊19 | 5♓51 | 3♉31 | 11♉ 7 | 14♎35 | 14♎57 | 8♐55 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 9n53 | 7n38 | 0s29 | 4n35 | 3s19 | 6s20 | 7s52 | 3s 5 | 0n 6 | 4s56 | 1s46 | 20n 4 | 1s30 | 9s48 | 0s49 | 11n11 | 1s56 | 4n10 | 11s49 | 6s 1 | 6s33 | 17s39 | | n.a. |
| T 2 | 9 31 | 11 33 | 1 44 | 5 12 | 3 6 | 6 21 | 7 59 | 3 22 | 0 5 | 4 59 | 1 46 | 20 4 | 1 30 | 9 49 | 0 49 | 11 10 | 1 57 | 4 10 | 11 49 | 6 2 | 6 32 | 17 40 | | n.a. |
| F 3 | 9 9 | 14 48 | 2 52 | 5 51 | 2 51 | 6 20 | 8 5 | 3 39 | 0 4 | 5 2 | 1 46 | 20 4 | 1 30 | 9 50 | 0 49 | 11 10 | 1 57 | 4 10 | 11 50 | 6 2 | 6 31 | 17 40 | | n.a. |
| S 4 | 8 47 | 17 11 | 3 50 | 6 32 | 2 35 | 6 19 | 8 11 | 3 57 | 0 3 | 5 5 | 1 46 | 20 5 | 1 31 | 9 51 | 0 49 | 11 10 | 1 57 | 4 10 | 11 50 | 6 3 | 6 29 | 17 41 | | n.a. |
| S 5 | 8 25 | 18 30 | 4 35 | 7 14 | 2 17 | 6 15 | 8 16 | 4 14 | 0 3 | 5 8 | 1 46 | 20 5 | 1 31 | 9 52 | 0 49 | 11 10 | 1 57 | 4 9 | 11 50 | 6 3 | 6 28 | 17 41 | | n.a. |
| M 6 | 8 2 | 18 40 | 5 2 | 7 55 | 1 58 | 6 11 | 8 21 | 4 31 | 0 2 | 5 11 | 1 46 | 20 5 | 1 31 | 9 53 | 0 49 | 11 9 | 1 57 | 4 9 | 11 50 | 6 2 | 6 27 | 17 42 | | n.a. |
| T 7 | 7 40 | 17 40 | 5 12 | 8 35 | 1 38 | 6 4 | 8 24 | 4 48 | 0 1 | 5 14 | 1 46 | 20 5 | 1 31 | 9 54 | 0 49 | 11 9 | 1 57 | 4 9 | 11 50 | 6 1 | 6 26 | 17 43 | | n.a. |
| W 8 | 7 17 | 15 36 | 5 2 | 9 13 | 1 18 | 5 57 | 8 28 | 5 5 | 0 1 | 5 18 | 1 46 | 20 5 | 1 31 | 9 55 | 0 49 | 11 9 | 1 57 | 4 8 | 11 50 | 5 59 | 6 24 | 17 43 | | n.a. |
| T 9 | 6 54 | 12 40 | 4 35 | 9 48 | 0 58 | 5 48 | 8 30 | 5 23 | 0s 0 | 5 21 | 1 46 | 20 6 | 1 31 | 9 56 | 0 49 | 11 8 | 1 57 | 4 8 | 11 51 | 5 57 | 6 23 | 17 44 | | n.a. |
| F 10 | 6 31 | 9 5 | 3 53 | 10 20 | 0 38 | 5 37 | 8 31 | 5 40 | 0 1 | 5 24 | 1 46 | 20 6 | 1 31 | 9 56 | 0 49 | 11 8 | 1 57 | 4 8 | 11 51 | 5 55 | 6 22 | 17 44 | | n.a. |
| S 11 | 6 8 | 5 5 | 2 58 | 10 47 | 0 18 | 5 25 | 8 32 | 5 57 | 0 1 | 5 27 | 1 46 | 20 6 | 1 31 | 9 57 | 0 49 | 11 7 | 1 57 | 4 7 | 11 51 | 5 53 | 6 21 | 17 45 | | n.a. |
| S 12 | 5 45 | 0 55 | 1 54 | 11 9 | 0n 0 | 5 12 | 8 31 | 6 14 | 0 2 | 5 31 | 1 46 | 20 6 | 1 31 | 9 58 | 0 49 | 11 7 | 1 57 | 4 7 | 11 51 | 5 52 | 6 19 | 17 45 | | n.a. |
| M13 | 5 21 | 3s12 | 0 47 | 11 27 | 0 18 | 4 58 | 8 30 | 6 31 | 0 3 | 5 34 | 1 46 | 20 6 | 1 31 | 9 59 | 0 49 | 11 7 | 1 57 | 4 7 | 11 51 | 5 51 | 6 18 | 17 46 | | n.a. |
| T 14 | 4 58 | 7 5 | 0n22 | 11 39 | 0 34 | 4 42 | 8 28 | 6 49 | 0 4 | 5 37 | 1 46 | 20 6 | 1 31 | 10 0 | 0 49 | 11 6 | 1 57 | 4 6 | 11 52 | 5 51 | 6 17 | 17 46 | | n.a. |
| W15 | 4 34 | 10 35 | 1 29 | 11 47 | 0 49 | 4 25 | 8 25 | 7 6 | 0 4 | 5 40 | 1 46 | 20 6 | 1 31 | 10 1 | 0 49 | 11 6 | 1 57 | 4 6 | 11 52 | 5 51 | 6 16 | 17 47 | | n.a. |
| T 16 | 4 11 | 13 34 | 2 30 | 11 49 | 1 2 | 4 7 | 8 21 | 7 23 | 0 5 | 5 43 | 1 46 | 20 6 | 1 32 | 10 2 | 0 49 | 11 5 | 1 57 | 4 6 | 11 52 | 5 52 | 6 14 | 17 48 | | n.a. |
| F 17 | 3 47 | 15 56 | 3 24 | 11 47 | 1 14 | 3 48 | 8 16 | 7 40 | 0 6 | 5 47 | 1 46 | 20 6 | 1 32 | 10 3 | 0 49 | 11 5 | 1 57 | 4 5 | 11 52 | 5 53 | 6 13 | 17 48 | | n.a. |
| S 18 | 3 23 | 17 37 | 4 9 | 11 39 | 1 25 | 3 28 | 8 10 | 7 57 | 0 6 | 5 50 | 1 46 | 20 6 | 1 32 | 10 3 | 0 49 | 11 5 | 1 57 | 4 5 | 11 52 | 5 53 | 6 12 | 17 49 | | n.a. |
| S 19 | 3 0 | 18 31 | 4 44 | 11 28 | 1 34 | 3 8 | 8 3 | 8 14 | 0 7 | 5 53 | 1 46 | 20 6 | 1 32 | 10 4 | 0 49 | 11 4 | 1 57 | 4 5 | 11 52 | 5 54 | 6 11 | 17 49 | | n.a. |
| M20 | 2 36 | 18 36 | 5 6 | 11 12 | 1 42 | 2 47 | 7 56 | 8 31 | 0 8 | 5 56 | 1 46 | 20 6 | 1 32 | 10 5 | 0 49 | 11 4 | 1 57 | 4 4 | 11 53 | 5 54 | 6 10 | 17 50 | | n.a. |
| T 21 | 2 12 | 17 51 | 5 15 | 10 53 | 1 48 | 2 25 | 7 47 | 8 47 | 0 8 | 5 59 | 1 46 | 20 6 | 1 32 | 10 6 | 0 49 | 11 3 | 1 57 | 4 4 | 11 53 | 5 53 | 6 8 | 17 50 | | n.a. |
| W22 | 1 48 | 16 15 | 5 10 | 10 30 | 1 53 | 2 3 | 7 38 | 9 4 | 0 9 | 6 2 | 1 46 | 20 6 | 1 32 | 10 7 | 0 49 | 11 3 | 1 57 | 4 4 | 11 53 | 5 52 | 6 7 | 17 51 | | n.a. |
| T 23 | 1 24 | 13 51 | 4 51 | 10 4 | 1 57 | 1 41 | 7 28 | 9 21 | 0 10 | 6 6 | 1 46 | 20 6 | 1 32 | 10 8 | 0 49 | 11 2 | 1 57 | 4 3 | 11 53 | 5 51 | 6 6 | 17 51 | | n.a. |
| F 24 | 1 0 | 10 43 | 4 16 | 9 36 | 2 0 | 1 19 | 7 17 | 9 38 | 0 10 | 6 9 | 1 46 | 20 6 | 1 32 | 10 8 | 0 49 | 11 2 | 1 58 | 4 3 | 11 53 | 5 50 | 6 5 | 17 52 | | n.a. |
| S 25 | 0 36 | 6 57 | 3 26 | 9 4 | 2 2 | 0 57 | 7 6 | 9 54 | 0 11 | 6 12 | 1 46 | 20 6 | 1 32 | 10 9 | 0 49 | 11 1 | 1 58 | 4 2 | 11 53 | 5 49 | 6 3 | 17 52 | | n.a. |
| S 26 | 0 12 | 2 44 | 2 24 | 8 31 | 2 3 | 0 35 | 6 54 | 10 11 | 0 12 | 6 15 | 1 46 | 20 6 | 1 32 | 10 10 | 0 49 | 11 1 | 1 58 | 4 2 | 11 53 | 5 49 | 6 2 | 17 53 | | n.a. |
| M27 | 0s12 | 1n45 | 1 11 | 7 56 | 2 3 | 0 13 | 6 42 | 10 27 | 0 12 | 6 18 | 1 46 | 20 5 | 1 32 | 10 11 | 0 49 | 11 0 | 1 58 | 4 2 | 11 54 | 5 48 | 6 1 | 17 53 | | n.a. |
| T 28 | 0 36 | 6 12 | 0s 7 | 7 18 | 2 2 | 0n 8 | 6 29 | 10 44 | 0 13 | 6 21 | 1 46 | 20 5 | 1 32 | 10 12 | 0 48 | 11 0 | 1 58 | 4 1 | 11 54 | 5 48 | 6 0 | 17 54 | | n.a. |
| W29 | 1 1 | 10 21 | 1 26 | 6 40 | 2 1 | 0 29 | 6 16 | 11 0 | 0 14 | 6 24 | 1 46 | 20 5 | 1 33 | 10 12 | 0 48 | 10 59 | 1 58 | 4 1 | 11 54 | 5 48 | 5 58 | 17 54 | | n.a. |
| T 30 | 1s25 | 13n54 | 2s40 | 6n 0 | 1n59 | 0n50 | 6s 2 | 11s17 | 0s14 | 6s26 | 1s46 | 20n 5 | 1s33 | 10s13 | 0s48 | 10n59 | 1s58 | 4n 1 | 11s54 | 5s49 | 5s57 | 17s55 | | n.a. |

Julian Day Number = 1688793.5, Delta T = 03h11m35s
Ecliptic obliquity = 23°42'13, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°17'54, Lahiri = - 5°10'53 Julian Calendar 1 Sept. 90 BCE == Greg. Calendar 30 Aug. 090 BCE

The year -89 astronomical counting style corresponds to year 090 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 90 BCE
# geocentric

## OCTOBER 90 BCE (-89) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 0 25 10 | 4♎30'57 | 29♉15 | 21♍ 9 | 13°R37 | 29♎13 | 17°R48 | 6°R18 | 5°R49 | 3°R29 | 11°R 6 | 14♎36 | 14♎54 | 9♐ 1 | n.a. | F 1 |
| S 2 | 0 29 6 | 5°31'05 | 13♊40 | 22°47 | 13♍21 | 29°57 | 17♓41 | 6♊17 | 5♓47 | 3♉28 | 11♉ 6 | 14°37 | 14°51 | 9° 8 | n.a. | S 2 |
| S 3 | 0 33 3 | 6°31'14 | 27°57 | 24°25 | 13° 8 | 0♏40 | 17°33 | 6°16 | 5°45 | 3°27 | 11° 5 | 14°37 | 14°47 | 9°15 | n.a. | S 3 |
| M 4 | 0 36 59 | 7°31'26 | 12♋ 3 | 26° 3 | 12°57 | 1°24 | 17°26 | 6°15 | 5°43 | 3°25 | 11° 4 | 14°R37 | 14°44 | 9°21 | n.a. | M 4 |
| T 5 | 0 40 56 | 8°31'40 | 25°57 | 27°42 | 12°49 | 2° 8 | 17°19 | 6°13 | 5°41 | 3°24 | 11° 3 | 14°37 | 14°41 | 9°28 | n.a. | T 5 |
| W 6 | 0 44 53 | 9°31'57 | 9♌37 | 29°21 | 12°43 | 2°52 | 17°12 | 6°12 | 5°39 | 3°22 | 11° 2 | 14°37 | 14°38 | 9°35 | n.a. | W 6 |
| T 7 | 0 48 49 | 10°32'15 | 23° 4 | 1♎ 0 | 12°39 | 3°36 | 17° 5 | 6°10 | 5°37 | 3°21 | 11° 1 | 14°36 | 14°35 | 9°41 | n.a. | T 7 |
| F 8 | 0 52 46 | 11°32'35 | 6♍18 | 2°39 | 12°D39 | 4°20 | 16°59 | 6° 8 | 5°35 | 3°19 | 11° 0 | 14°36 | 14°32 | 9°48 | n.a. | F 8 |
| S 9 | 0 56 42 | 12°32'57 | 19°18 | 4°17 | 12°40 | 5° 4 | 16°52 | 6° 7 | 5°33 | 3°17 | 10°59 | 14°35 | 14°28 | 9°55 | n.a. | S 9 |
| S 10 | 1 0 39 | 13°33'22 | 2♎ 5 | 5°56 | 12°44 | 5°48 | 16°46 | 6° 5 | 5°32 | 3°16 | 10°58 | 14°35 | 14°25 | 10° 2 | n.a. | S 10 |
| M11 | 1 4 35 | 14°33'48 | 14°38 | 7°34 | 12°50 | 6°32 | 16°39 | 6° 3 | 5°30 | 3°14 | 10°57 | 14°35 | 14°22 | 10° 8 | n.a. | M11 |
| T 12 | 1 8 32 | 15°34'16 | 27° 0 | 9°12 | 12°59 | 7°16 | 16°33 | 6° 0 | 5°28 | 3°13 | 10°56 | 14°35 | 14°19 | 10°15 | n.a. | T 12 |
| W13 | 1 12 28 | 16°34'45 | 9♏10 | 10°50 | 13° 9 | 8° 1 | 16°27 | 5°58 | 5°26 | 3°11 | 10°55 | 14°35 | 14°16 | 10°22 | n.a. | W13 |
| T 14 | 1 16 25 | 17°35'16 | 21°12 | 12°27 | 13°22 | 8°45 | 16°21 | 5°56 | 5°25 | 3° 9 | 10°54 | 14°35 | 14°12 | 10°28 | n.a. | T 14 |
| F 15 | 1 20 22 | 18°35'49 | 3♐ 6 | 14° 5 | 13°37 | 9°30 | 16°15 | 5°53 | 5°23 | 3° 8 | 10°53 | 14°34 | 14° 9 | 10°35 | n.a. | F 15 |
| S 16 | 1 24 18 | 19°36'23 | 14°57 | 15°42 | 13°54 | 10°14 | 16°10 | 5°51 | 5°22 | 3° 6 | 10°52 | 14°34 | 14° 6 | 10°42 | n.a. | S 16 |
| S 17 | 1 28 15 | 20°36'59 | 26°47 | 17°18 | 14°13 | 10°59 | 16° 4 | 5°48 | 5°20 | 3° 5 | 10°51 | 14°33 | 14° 3 | 10°48 | n.a. | S 17 |
| M18 | 1 32 11 | 21°37'36 | 8♑41 | 18°55 | 14°34 | 11°43 | 15°59 | 5°45 | 5°19 | 3° 3 | 10°50 | 14°33 | 14° 0 | 10°55 | n.a. | M18 |
| T 19 | 1 36 8 | 22°38'14 | 20°44 | 20°31 | 14°57 | 12°28 | 15°54 | 5°42 | 5°17 | 3° 1 | 10°49 | 14°D32 | 13°57 | 11° 2 | n.a. | T 19 |
| W20 | 1 40 4 | 23°38'54 | 2♒59 | 22° 7 | 15°22 | 13°13 | 15°49 | 5°39 | 5°16 | 3° 0 | 10°47 | 14°33 | 13°53 | 11° 9 | n.a. | W20 |
| T 21 | 1 44 1 | 24°39'35 | 15°32 | 23°42 | 15°48 | 13°57 | 15°45 | 5°36 | 5°15 | 2°58 | 10°46 | 14°33 | 13°50 | 11°15 | n.a. | T 21 |
| F 22 | 1 47 57 | 25°40'17 | 28°27 | 25°18 | 16°16 | 14°42 | 15°40 | 5°33 | 5°13 | 2°56 | 10°45 | 14°34 | 13°47 | 11°22 | n.a. | F 22 |
| S 23 | 1 51 54 | 26°41'00 | 11♓46 | 26°53 | 16°46 | 15°27 | 15°36 | 5°30 | 5°12 | 2°54 | 10°44 | 14°35 | 13°44 | 11°29 | n.a. | S 23 |
| S 24 | 1 55 51 | 27°41'44 | 25°30 | 28°28 | 17°18 | 16°12 | 15°32 | 5°27 | 5°11 | 2°53 | 10°43 | 14°36 | 13°41 | 11°35 | n.a. | S 24 |
| M25 | 1 59 47 | 28°42'30 | 9♈40 | 0♏ 2 | 17°50 | 16°57 | 15°28 | 5°23 | 5°10 | 2°51 | 10°42 | 14°R37 | 13°37 | 11°42 | n.a. | M25 |
| T 26 | 2 3 44 | 29°43'17 | 24°12 | 1°37 | 18°25 | 17°42 | 15°24 | 5°20 | 5° 9 | 2°49 | 10°41 | 14°37 | 13°34 | 11°49 | n.a. | T 26 |
| W27 | 2 7 40 | 0♏44'06 | 9♉ 1 | 3°11 | 19° 1 | 18°27 | 15°20 | 5°16 | 5° 7 | 2°48 | 10°40 | 14°36 | 13°31 | 11°55 | n.a. | W27 |
| T 28 | 2 11 37 | 1°44'55 | 23°58 | 4°45 | 19°38 | 19°12 | 15°17 | 5°13 | 5° 6 | 2°46 | 10°39 | 14°34 | 13°28 | 12° 2 | n.a. | T 28 |
| F 29 | 2 15 33 | 2°45'47 | 8♊56 | 6°20 | 20°16 | 19°58 | 15°14 | 5° 9 | 5° 5 | 2°44 | 10°37 | 14°31 | 13°25 | 12° 9 | n.a. | F 29 |
| S 30 | 2 19 30 | 3°46'40 | 23°45 | 7°54 | 20°56 | 20°43 | 15°11 | 5° 5 | 5° 5 | 2°43 | 10°36 | 14°29 | 13°22 | 12°16 | n.a. | S 30 |
| S 31 | 2 23 26 | 4♏47'34 | 8♋20 | 9♏27 | 21♍37 | 21♏28 | 15♓ 8 | 5♊ 1 | 5♓ 4 | 2♉41 | 10♉35 | 14♎27 | 13♎18 | 12♐22 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 1s49 | 16n35 | 3s43 | 5n19 | 1n56 | 1n 9 | 5s49 | 11s33 | 0s15 | 6s29 | 1s45 | 20n 5 | 1s33 | 10s14 | 0s48 | 10n58 | 1s58 | 4n 0 | 11s54 | 5s49 | 5s56 | 17s55 | | n.a. |
| S 2 | 2 13 | 18 11 | 4 32 | 4 37 | 1 53 | 1 28 | 5 35 | 11 49 | 0 16 | 6 32 | 1 45 | 20 4 | 1 33 | 10 15 | 0 48 | 10 58 | 1 58 | 4 0 | 11 54 | 5 49 | 5 55 | 17 56 | | n.a. |
| S 3 | 2 37 | 18 37 | 5 4 | 3 55 | 1 49 | 1 46 | 5 21 | 12 5 | 0 16 | 6 35 | 1 45 | 20 4 | 1 33 | 10 15 | 0 48 | 10 57 | 1 58 | 3 59 | 11 54 | 5 50 | 5 53 | 17 56 | | n.a. |
| M 4 | 3 1 | 17 53 | 5 17 | 3 12 | 1 45 | 2 4 | 5 6 | 12 21 | 0 17 | 6 38 | 1 45 | 20 4 | 1 33 | 10 16 | 0 48 | 10 57 | 1 58 | 3 59 | 11 54 | 5 50 | 5 52 | 17 57 | | n.a. |
| T 5 | 3 25 | 16 6 | 5 11 | 2 28 | 1 41 | 2 20 | 4 52 | 12 37 | 0 18 | 6 40 | 1 45 | 20 4 | 1 33 | 10 17 | 0 48 | 10 56 | 1 58 | 3 59 | 11 54 | 5 49 | 5 51 | 17 57 | | n.a. |
| W 6 | 3 49 | 13 25 | 4 48 | 1 44 | 1 36 | 2 35 | 4 38 | 12 53 | 0 18 | 6 43 | 1 45 | 20 3 | 1 33 | 10 17 | 0 48 | 10 56 | 1 58 | 3 58 | 11 55 | 5 49 | 5 50 | 17 58 | | n.a. |
| T 7 | 4 13 | 10 4 | 4 9 | 1 0 | 1 31 | 2 50 | 4 23 | 13 9 | 0 19 | 6 45 | 1 45 | 20 3 | 1 33 | 10 18 | 0 48 | 10 55 | 1 58 | 3 58 | 11 55 | 5 49 | 5 48 | 17 58 | | n.a. |
| F 8 | 4 37 | 6 15 | 3 17 | 0 15 | 1 26 | 3 3 | 4 9 | 13 25 | 0 20 | 6 48 | 1 44 | 20 2 | 1 33 | 10 19 | 0 48 | 10 55 | 1 58 | 3 58 | 11 55 | 5 49 | 5 47 | 17 59 | | n.a. |
| S 9 | 5 1 | 2 12 | 2 16 | 0s30 | 1 20 | 3 16 | 3 55 | 13 40 | 0 20 | 6 50 | 1 44 | 20 2 | 1 33 | 10 19 | 0 48 | 10 54 | 1 58 | 3 57 | 11 55 | 5 49 | 5 46 | 17 59 | | n.a. |
| S 10 | 5 24 | 1s53 | 1 9 | 1 14 | 1 15 | 3 27 | 3 41 | 13 56 | 0 21 | 6 53 | 1 44 | 20 2 | 1 33 | 10 20 | 0 48 | 10 53 | 1 58 | 3 57 | 11 55 | 5 49 | 5 45 | 18 0 | | n.a. |
| M11 | 5 48 | 5 50 | 0n 0 | 1 59 | 1 9 | 3 37 | 3 27 | 14 11 | 0 21 | 6 55 | 1 44 | 20 1 | 1 33 | 10 21 | 0 48 | 10 53 | 1 58 | 3 56 | 11 55 | 5 49 | 5 43 | 18 0 | | n.a. |
| T 12 | 6 12 | 9 27 | 1 8 | 2 44 | 1 3 | 3 47 | 3 14 | 14 26 | 0 22 | 6 57 | 1 44 | 20 1 | 1 33 | 10 21 | 0 48 | 10 52 | 1 58 | 3 56 | 11 55 | 5 49 | 5 42 | 18 1 | | n.a. |
| W13 | 6 35 | 12 37 | 2 12 | 3 28 | 0 57 | 3 55 | 3 0 | 14 42 | 0 23 | 6 59 | 1 43 | 20 0 | 1 33 | 10 22 | 0 48 | 10 52 | 1 58 | 3 56 | 11 55 | 5 49 | 5 41 | 18 1 | | n.a. |
| T 14 | 6 59 | 15 12 | 3 10 | 4 12 | 0 50 | 4 2 | 2 47 | 14 57 | 0 23 | 7 1 | 1 43 | 20 0 | 1 34 | 10 22 | 0 48 | 10 51 | 1 58 | 3 55 | 11 55 | 5 49 | 5 40 | 18 2 | | n.a. |
| F 15 | 7 22 | 17 7 | 3 58 | 4 56 | 0 44 | 4 8 | 2 34 | 15 12 | 0 24 | 7 3 | 1 43 | 19 59 | 1 34 | 10 23 | 0 48 | 10 51 | 1 58 | 3 55 | 11 55 | 5 48 | 5 38 | 18 2 | | n.a. |
| S 16 | 7 45 | 18 16 | 4 36 | 5 40 | 0 37 | 4 14 | 2 21 | 15 26 | 0 25 | 7 5 | 1 43 | 19 59 | 1 34 | 10 23 | 0 48 | 10 50 | 1 58 | 3 55 | 11 55 | 5 48 | 5 37 | 18 2 | | n.a. |
| S 17 | 8 8 | 18 38 | 5 2 | 6 23 | 0 31 | 4 18 | 2 9 | 15 41 | 0 25 | 7 7 | 1 42 | 19 58 | 1 34 | 10 24 | 0 48 | 10 50 | 1 58 | 3 54 | 11 55 | 5 48 | 5 36 | 18 3 | | n.a. |
| M18 | 8 31 | 18 10 | 5 16 | 7 7 | 0 24 | 4 21 | 1 57 | 15 56 | 0 26 | 7 9 | 1 42 | 19 58 | 1 34 | 10 25 | 0 48 | 10 49 | 1 58 | 3 54 | 11 55 | 5 48 | 5 35 | 18 3 | | n.a. |
| T 19 | 8 54 | 16 53 | 5 15 | 7 49 | 0 18 | 4 23 | 1 45 | 16 10 | 0 26 | 7 11 | 1 42 | 19 57 | 1 34 | 10 25 | 0 48 | 10 48 | 1 58 | 3 53 | 11 56 | 5 48 | 5 34 | 18 4 | | n.a. |
| W20 | 9 17 | 14 49 | 5 1 | 8 32 | 0 11 | 4 24 | 1 33 | 16 24 | 0 27 | 7 13 | 1 42 | 19 57 | 1 34 | 10 25 | 0 48 | 10 48 | 1 58 | 3 53 | 11 56 | 5 48 | 5 32 | 18 4 | | n.a. |
| T 21 | 9 39 | 12 1 | 4 32 | 9 14 | 0 5 | 4 24 | 1 21 | 16 39 | 0 28 | 7 14 | 1 41 | 19 56 | 1 34 | 10 26 | 0 48 | 10 47 | 1 58 | 3 53 | 11 56 | 5 48 | 5 31 | 18 5 | | n.a. |
| F 22 | 10 2 | 8 34 | 3 49 | 9 55 | 0s 2 | 4 24 | 1 10 | 16 53 | 0 28 | 7 16 | 1 41 | 19 56 | 1 34 | 10 26 | 0 48 | 10 47 | 1 58 | 3 52 | 11 56 | 5 48 | 5 30 | 18 5 | | n.a. |
| S 23 | 10 24 | 4 35 | 2 52 | 10 36 | 0 9 | 4 22 | 0 59 | 17 7 | 0 29 | 7 17 | 1 41 | 19 55 | 1 34 | 10 27 | 0 48 | 10 46 | 1 58 | 3 52 | 11 56 | 5 49 | 5 29 | 18 6 | | n.a. |
| S 24 | 10 46 | 0 13 | 1 44 | 11 17 | 0 15 | 4 20 | 0 49 | 17 20 | 0 30 | 7 19 | 1 41 | 19 54 | 1 34 | 10 27 | 0 48 | 10 45 | 1 58 | 3 52 | 11 56 | 5 49 | 5 27 | 18 6 | | n.a. |
| M25 | 11 8 | 4n17 | 0 27 | 11 57 | 0 22 | 4 16 | 0 39 | 17 34 | 0 30 | 7 20 | 1 40 | 19 54 | 1 34 | 10 28 | 0 48 | 10 45 | 1 58 | 3 51 | 11 56 | 5 49 | 5 26 | 18 6 | | n.a. |
| T 26 | 11 30 | 8 40 | 0s53 | 12 36 | 0 28 | 4 12 | 0 28 | 17 47 | 0 31 | 7 21 | 1 40 | 19 53 | 1 34 | 10 28 | 0 48 | 10 44 | 1 58 | 3 51 | 11 56 | 5 49 | 5 25 | 18 7 | | n.a. |
| W27 | 11 51 | 12 35 | 2 11 | 13 15 | 0 34 | 4 7 | 0 19 | 18 1 | 0 31 | 7 22 | 1 40 | 19 53 | 1 34 | 10 28 | 0 48 | 10 44 | 1 58 | 3 51 | 11 56 | 5 49 | 5 24 | 18 7 | | n.a. |
| T 28 | 12 13 | 15 44 | 3 21 | 13 53 | 0 41 | 4 1 | 0 9 | 18 14 | 0 32 | 7 23 | 1 40 | 19 52 | 1 34 | 10 29 | 0 48 | 10 43 | 1 58 | 3 50 | 11 56 | 5 48 | 5 22 | 18 8 | | n.a. |
| F 29 | 12 34 | 17 48 | 4 17 | 14 31 | 0 47 | 3 54 | 0 0 | 18 27 | 0 32 | 7 24 | 1 39 | 19 51 | 1 34 | 10 29 | 0 48 | 10 43 | 1 58 | 3 50 | 11 56 | 5 47 | 5 21 | 18 8 | | n.a. |
| S 30 | 12 55 | 18 38 | 4 55 | 15 8 | 0 53 | 3 46 | 0n 9 | 18 40 | 0 33 | 7 25 | 1 39 | 19 51 | 1 34 | 10 29 | 0 48 | 10 42 | 1 58 | 3 50 | 11 56 | 5 46 | 5 20 | 18 8 | | n.a. |
| S 31 | 13s16 | 18n13 | 5s14 | 15s44 | 0s59 | 3n38 | 0n17 | 18s52 | 0s34 | 7s26 | 1s39 | 19n50 | 1s34 | 10s30 | 0s48 | 10n41 | 1s58 | 3n49 | 11s56 | 5s45 | 5s19 | 18s 9 | | n.a. |

Julian Day Number = 1688823.5, Delta T = 03h11m34s
Ecliptic obliquity = 23°42'13, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°17'50, Lahiri = - 5°10'49 Julian Calendar 1 Oct. 90 BCE == Greg. Calendar 29 Sept. 090 BCE

The year -89 astronomical counting style corresponds to year 090 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 90 BCE
# geocentric

## NOVEMBER 90 BCE (-89) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 2 27 23 | 5♏48'29 | 22♋36 | 11♏ 1 | 22♍19 | 22♏13 | 15°R 5 | 4°R57 | 5°R 3 | 2°R39 | 10°R34 | 14°R25 | 13♎15 | 12♐29 | n.a. | M 1 |
| T 2 | 2 31 20 | 6°49'27 | 6♌31 | 12°35 | 23° 2 | 22°59 | 15♓ 3 | 4♊53 | 5♓ 2 | 2♉38 | 10♉33 | 14°D25 | 13°12 | 12°36 | n.a. | T 2 |
| W 3 | 2 35 16 | 7°50'25 | 20° 3 | 14° 9 | 23°46 | 23°44 | 15° 1 | 4°49 | 5° 1 | 2°36 | 10°32 | 14♎25 | 13° 9 | 12°42 | n.a. | W 3 |
| T 4 | 2 39 13 | 8°51'25 | 3♍16 | 15°42 | 24°32 | 24°30 | 14°59 | 4°45 | 5° 1 | 2°34 | 10°31 | 14°26 | 13° 6 | 12°49 | n.a. | T 4 |
| F 5 | 2 43 9 | 9°52'26 | 16°11 | 17°16 | 25°18 | 25°15 | 14°57 | 4°41 | 5° 0 | 2°32 | 10°29 | 14°28 | 13° 3 | 12°56 | n.a. | F 5 |
| S 6 | 2 47 6 | 10°53'29 | 28°51 | 18°49 | 26° 6 | 26° 1 | 14°55 | 4°36 | 4°59 | 2°31 | 10°28 | 14°30 | 12°59 | 13° 2 | n.a. | S 6 |
| S 7 | 2 51 2 | 11°54'33 | 11♎18 | 20°23 | 26°54 | 26°47 | 14°54 | 4°32 | 4°59 | 2°29 | 10°27 | 14°R30 | 12°56 | 13° 9 | n.a. | S 7 |
| M 8 | 2 54 59 | 12°55'37 | 23°34 | 21°56 | 27°43 | 27°32 | 14°53 | 4°28 | 4°58 | 2°27 | 10°26 | 14°30 | 12°53 | 13°16 | n.a. | M 8 |
| T 9 | 2 58 55 | 13°56'43 | 5♏42 | 23°30 | 28°33 | 28°18 | 14°52 | 4°23 | 4°58 | 2°26 | 10°25 | 14°28 | 12°50 | 13°23 | n.a. | T 9 |
| W10 | 3 2 52 | 14°57'50 | 17°43 | 25° 3 | 29°24 | 29° 4 | 14°51 | 4°19 | 4°57 | 2°24 | 10°24 | 14°25 | 12°47 | 13°29 | n.a. | W10 |
| T 11 | 3 6 49 | 15°58'58 | 29°39 | 26°36 | 0♎15 | 29°50 | 14°50 | 4°14 | 4°57 | 2°22 | 10°23 | 14°20 | 12°43 | 13°36 | n.a. | T 11 |
| F 12 | 3 10 45 | 17° 0'06 | 11♐31 | 28°10 | 1° 8 | 0♐36 | 14°50 | 4° 9 | 4°57 | 2°21 | 10°21 | 14°14 | 12°40 | 13°43 | n.a. | F 12 |
| S 13 | 3 14 42 | 18° 1'15 | 23°22 | 29°43 | 2° 1 | 1°22 | 14°D50 | 4° 5 | 4°57 | 2°19 | 10°20 | 14° 7 | 12°37 | 13°49 | n.a. | S 13 |
| S 14 | 3 18 38 | 19° 2'25 | 5♑13 | 1♐16 | 2°54 | 2° 8 | 14°50 | 4° 0 | 4°56 | 2°18 | 10°19 | 14° 1 | 12°34 | 13°56 | n.a. | S 14 |
| M15 | 3 22 35 | 20° 3'35 | 17° 7 | 2°49 | 3°49 | 2°54 | 14°50 | 3°55 | 4°56 | 2°16 | 10°18 | 13°55 | 12°31 | 14° 3 | n.a. | M15 |
| T 16 | 3 26 31 | 21° 4'46 | 29° 8 | 4°22 | 4°44 | 3°40 | 14°51 | 3°50 | 4°56 | 2°14 | 10°17 | 13°51 | 12°28 | 14°10 | n.a. | T 16 |
| W17 | 3 30 28 | 22° 5'57 | 11♒20 | 5°54 | 5°39 | 4°26 | 14°51 | 3°46 | 4°D56 | 2°13 | 10°16 | 13°49 | 12°24 | 14°16 | n.a. | W17 |
| T 18 | 3 34 24 | 23° 7'08 | 23°46 | 7°27 | 6°36 | 5°12 | 14°52 | 3°41 | 4°56 | 2°11 | 10°15 | 13°D48 | 12°21 | 14°23 | n.a. | T 18 |
| F 19 | 3 38 21 | 24° 8'20 | 6♓33 | 8°58 | 7°33 | 5°58 | 14°53 | 3°36 | 4°56 | 2°10 | 10°13 | 13°49 | 12°18 | 14°30 | n.a. | F 19 |
| S 20 | 3 42 18 | 25° 9'31 | 19°43 | 10°30 | 8°30 | 6°44 | 14°55 | 3°31 | 4°56 | 2° 8 | 10°12 | 13°50 | 12°15 | 14°36 | n.a. | S 20 |
| S 21 | 3 46 14 | 26°10'43 | 3♈20 | 12° 0 | 9°28 | 7°31 | 14°56 | 3°26 | 4°56 | 2° 7 | 10°11 | 13°51 | 12°12 | 14°43 | n.a. | S 21 |
| M22 | 3 50 11 | 27°11'55 | 17°26 | 13°30 | 10°26 | 8°17 | 14°58 | 3°21 | 4°57 | 2° 5 | 10°10 | 13°R52 | 12° 8 | 14°50 | n.a. | M22 |
| T 23 | 3 54 7 | 28°13'08 | 2♉ 0 | 14°59 | 11°25 | 9° 3 | 15° 0 | 3°16 | 4°57 | 2° 4 | 10° 9 | 13°50 | 12° 5 | 14°56 | n.a. | T 23 |
| W24 | 3 58 4 | 29°14'20 | 16°57 | 16°27 | 12°25 | 9°50 | 15° 2 | 3°11 | 4°57 | 2° 2 | 10° 8 | 13°47 | 12° 2 | 15° 3 | n.a. | W24 |
| T 25 | 4 2 0 | 0♐15'33 | 2♊ 9 | 17°54 | 13°25 | 10°36 | 15° 5 | 3° 6 | 4°58 | 2° 1 | 10° 7 | 13°41 | 11°59 | 15°10 | n.a. | T 25 |
| F 26 | 4 5 57 | 1°16'46 | 17°28 | 19°19 | 14°25 | 11°22 | 15° 7 | 3° 1 | 4°58 | 1°59 | 10° 6 | 13°34 | 11°56 | 15°17 | n.a. | F 26 |
| S 27 | 4 9 53 | 2°18'00 | 2♋41 | 20°42 | 15°26 | 12° 9 | 15°10 | 2°56 | 4°59 | 1°58 | 10° 5 | 13°26 | 11°53 | 15°23 | n.a. | S 27 |
| S 28 | 4 13 50 | 3°19'14 | 17°37 | 22° 3 | 16°27 | 12°56 | 15°13 | 2°51 | 4°59 | 1°56 | 10° 4 | 13°19 | 11°49 | 15°30 | n.a. | S 28 |
| M29 | 4 17 47 | 4°20'28 | 2♌11 | 23°21 | 17°29 | 13°42 | 15°16 | 2°46 | 5° 0 | 1°55 | 10° 3 | 13°13 | 11°46 | 15°37 | n.a. | M29 |
| T 30 | 4 21 43 | 5♐21'43 | 16♌17 | 24♐36 | 18♎31 | 14♐29 | 15♓19 | 2♊41 | 5♓ 0 | 1♉54 | 10♉ 2 | 13♎ 9 | 11♎43 | 15♐43 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 13s36 | 16n39 | 5s12 | 16s19 | 1s 5 | 3n29 | 0n26 | 19s 5 | 0s34 | 7s27 | 1s38 | 19n49 | 1s34 | 10s30 | 0s47 | 10n41 | 1s58 | 3n49 | 11s56 | 5s45 | 5s17 | 18s 9 | | n.a. |
| T 2 | 13 57 | 14 8 | 4 52 | 16 54 | 1 10 | 3 19 | 0 34 | 19 17 | 0 35 | 7 28 | 1 38 | 19 48 | 1 34 | 10 30 | 0 47 | 10 40 | 1 58 | 3 49 | 11 56 | 5 44 | 5 16 | 18 10 | | n.a. |
| W 3 | 14 17 | 10 54 | 4 17 | 17 28 | 1 16 | 3 8 | 0 42 | 19 29 | 0 35 | 7 28 | 1 38 | 19 48 | 1 34 | 10 30 | 0 47 | 10 40 | 1 58 | 3 48 | 11 56 | 5 45 | 5 15 | 18 10 | | n.a. |
| T 4 | 14 36 | 7 11 | 3 28 | 18 1 | 1 21 | 2 57 | 0 49 | 19 41 | 0 36 | 7 29 | 1 37 | 19 47 | 1 34 | 10 31 | 0 47 | 10 39 | 1 58 | 3 48 | 11 56 | 5 45 | 5 14 | 18 10 | | n.a. |
| F 5 | 14 56 | 3 13 | 2 30 | 18 33 | 1 27 | 2 45 | 0 57 | 19 53 | 0 36 | 7 29 | 1 37 | 19 46 | 1 34 | 10 31 | 0 47 | 10 38 | 1 58 | 3 48 | 11 56 | 5 46 | 5 12 | 18 11 | | n.a. |
| S 6 | 15 15 | 0s50 | 1 25 | 19 5 | 1 32 | 2 33 | 1 4 | 20 4 | 0 37 | 7 29 | 1 37 | 19 45 | 1 34 | 10 31 | 0 47 | 10 38 | 1 58 | 3 47 | 11 56 | 5 46 | 5 11 | 18 11 | | n.a. |
| S 7 | 15 35 | 4 47 | 0 18 | 19 35 | 1 37 | 2 20 | 1 11 | 20 16 | 0 38 | 7 30 | 1 37 | 19 45 | 1 34 | 10 31 | 0 47 | 10 37 | 1 58 | 3 47 | 11 56 | 5 47 | 5 10 | 18 12 | | n.a. |
| M 8 | 15 53 | 8 29 | 0n50 | 20 5 | 1 41 | 2 6 | 1 17 | 20 27 | 0 38 | 7 30 | 1 36 | 19 44 | 1 34 | 10 31 | 0 47 | 10 37 | 1 58 | 3 47 | 11 56 | 5 47 | 5 9 | 18 12 | | n.a. |
| T 9 | 16 12 | 11 47 | 1 54 | 20 33 | 1 46 | 1 52 | 1 24 | 20 38 | 0 39 | 7 30 | 1 36 | 19 43 | 1 34 | 10 32 | 0 47 | 10 36 | 1 58 | 3 46 | 11 55 | 5 46 | 5 7 | 18 12 | | n.a. |
| W10 | 16 30 | 14 33 | 2 52 | 21 1 | 1 50 | 1 37 | 1 30 | 20 48 | 0 39 | 7 30 | 1 36 | 19 42 | 1 34 | 10 32 | 0 47 | 10 36 | 1 58 | 3 46 | 11 55 | 5 45 | 5 6 | 18 13 | | n.a. |
| T 11 | 16 48 | 16 41 | 3 42 | 21 27 | 1 54 | 1 21 | 1 35 | 20 59 | 0 40 | 7 30 | 1 35 | 19 41 | 1 34 | 10 32 | 0 47 | 10 35 | 1 58 | 3 46 | 11 55 | 5 43 | 5 5 | 18 13 | | n.a. |
| F 12 | 17 6 | 18 5 | 4 22 | 21 53 | 1 57 | 1 5 | 1 41 | 21 9 | 0 40 | 7 30 | 1 35 | 19 41 | 1 34 | 10 32 | 0 47 | 10 35 | 1 58 | 3 46 | 11 55 | 5 40 | 5 4 | 18 14 | | n.a. |
| S 13 | 17 23 | 18 41 | 4 51 | 22 17 | 2 1 | 0 49 | 1 46 | 21 19 | 0 41 | 7 29 | 1 35 | 19 40 | 1 34 | 10 32 | 0 47 | 10 34 | 1 58 | 3 45 | 11 55 | 5 38 | 5 2 | 18 14 | | n.a. |
| S 14 | 17 40 | 18 29 | 5 7 | 22 40 | 2 4 | 0 32 | 1 52 | 21 29 | 0 41 | 7 29 | 1 34 | 19 39 | 1 34 | 10 32 | 0 47 | 10 33 | 1 58 | 3 45 | 11 55 | 5 35 | 5 1 | 18 14 | | n.a. |
| M15 | 17 57 | 17 28 | 5 10 | 23 1 | 2 7 | 0 15 | 1 57 | 21 39 | 0 42 | 7 29 | 1 34 | 19 38 | 1 34 | 10 32 | 0 47 | 10 33 | 1 58 | 3 45 | 11 55 | 5 33 | 5 0 | 18 15 | | n.a. |
| T 16 | 18 14 | 15 40 | 5 0 | 23 22 | 2 9 | 0s 3 | 2 1 | 21 49 | 0 42 | 7 28 | 1 34 | 19 37 | 1 34 | 10 32 | 0 47 | 10 32 | 1 58 | 3 44 | 11 55 | 5 31 | 4 59 | 18 15 | | n.a. |
| W17 | 18 30 | 13 9 | 4 36 | 23 41 | 2 11 | 0 21 | 2 6 | 21 58 | 0 43 | 7 28 | 1 33 | 19 36 | 1 34 | 10 32 | 0 47 | 10 32 | 1 58 | 3 44 | 11 55 | 5 30 | 4 57 | 18 15 | | n.a. |
| T 18 | 18 45 | 9 59 | 3 59 | 23 58 | 2 12 | 0 40 | 2 10 | 22 7 | 0 43 | 7 27 | 1 33 | 19 35 | 1 33 | 10 32 | 0 47 | 10 31 | 1 58 | 3 44 | 11 55 | 5 30 | 4 56 | 18 16 | | n.a. |
| F 19 | 19 1 | 6 17 | 3 9 | 24 14 | 2 14 | 0 59 | 2 14 | 22 16 | 0 44 | 7 26 | 1 33 | 19 35 | 1 33 | 10 32 | 0 47 | 10 31 | 1 58 | 3 44 | 11 55 | 5 30 | 4 55 | 18 16 | | n.a. |
| S 20 | 19 16 | 2 10 | 2 7 | 24 29 | 2 14 | 1 18 | 2 18 | 22 24 | 0 44 | 7 25 | 1 32 | 19 34 | 1 33 | 10 32 | 0 47 | 10 30 | 1 58 | 3 43 | 11 55 | 5 31 | 4 54 | 18 16 | | n.a. |
| S 21 | 19 31 | 2n12 | 0 57 | 24 42 | 2 14 | 1 38 | 2 21 | 22 32 | 0 45 | 7 25 | 1 32 | 19 33 | 1 33 | 10 32 | 0 47 | 10 30 | 1 58 | 3 43 | 11 54 | 5 31 | 4 52 | 18 17 | | n.a. |
| M22 | 19 45 | 6 37 | 0s19 | 24 53 | 2 14 | 1 58 | 2 25 | 22 40 | 0 45 | 7 24 | 1 32 | 19 32 | 1 33 | 10 31 | 0 47 | 10 29 | 1 58 | 3 43 | 11 54 | 5 32 | 4 51 | 18 17 | | n.a. |
| T 23 | 19 59 | 10 47 | 1 37 | 25 3 | 2 13 | 2 18 | 2 28 | 22 48 | 0 46 | 7 23 | 1 31 | 19 31 | 1 33 | 10 31 | 0 47 | 10 29 | 1 58 | 3 43 | 11 54 | 5 31 | 4 50 | 18 17 | | n.a. |
| W24 | 20 13 | 14 23 | 2 49 | 25 11 | 2 11 | 2 38 | 2 31 | 22 56 | 0 46 | 7 21 | 1 31 | 19 30 | 1 33 | 10 31 | 0 47 | 10 28 | 1 58 | 3 43 | 11 54 | 5 30 | 4 49 | 18 18 | | n.a. |
| T 25 | 20 26 | 17 3 | 3 51 | 25 17 | 2 9 | 2 59 | 2 34 | 23 3 | 0 47 | 7 20 | 1 31 | 19 29 | 1 33 | 10 31 | 0 47 | 10 28 | 1 58 | 3 42 | 11 54 | 5 27 | 4 47 | 18 18 | | n.a. |
| F 26 | 20 39 | 18 31 | 4 36 | 25 22 | 2 6 | 3 20 | 2 37 | 23 10 | 0 47 | 7 19 | 1 31 | 19 28 | 1 33 | 10 31 | 0 46 | 10 27 | 1 58 | 3 42 | 11 54 | 5 25 | 4 46 | 18 18 | | n.a. |
| S 27 | 20 51 | 18 39 | 5 2 | 25 25 | 2 2 | 3 42 | 2 39 | 23 17 | 0 48 | 7 17 | 1 30 | 19 28 | 1 33 | 10 31 | 0 46 | 10 27 | 1 58 | 3 42 | 11 54 | 5 22 | 4 45 | 18 19 | | n.a. |
| S 28 | 21 3 | 17 28 | 5 6 | 25 25 | 1 58 | 4 3 | 2 42 | 23 24 | 0 48 | 7 16 | 1 30 | 19 27 | 1 33 | 10 30 | 0 46 | 10 27 | 1 57 | 3 42 | 11 54 | 5 19 | 4 43 | 18 19 | | n.a. |
| M29 | 21 15 | 15 10 | 4 51 | 25 24 | 1 52 | 4 25 | 2 44 | 23 30 | 0 49 | 7 15 | 1 30 | 19 26 | 1 33 | 10 30 | 0 46 | 10 26 | 1 57 | 3 42 | 11 53 | 5 16 | 4 42 | 18 19 | | n.a. |
| T 30 | 21s26 | 12n 2 | 4s18 | 25s22 | 1s46 | 4s47 | 2n46 | 23s36 | 0s49 | 7s13 | 1s29 | 19n25 | 1s32 | 10s30 | 0s46 | 10n26 | 1s57 | 3n41 | 11s53 | 5s15 | 4s41 | 18s20 | | n.a. |

Julian Day Number = 1688854.5, Delta T = 03h11m33s
Ecliptic obliquity = 23°42'12, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°17'45, Lahiri = - 5°10'45 Julian Calendar 1 Nov. 90 BCE == Greg. Calendar 30 Oct. 090 BCE

The year -89 astronomical counting style corresponds to year 090 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 90 BCE
# geocentric

## DECEMBER 90 BCE (-89) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 4 25 40 | 6♐22'58 | 29♌55 | 25♐47 | 19♎33 | 15♐15 | 15♓23 | 2°R36 | 5♓ 1 | 1°R52 | 10°R 1 | 13°R 7 | 11♎40 | 15♐50 | n.a. | W 1 |
| T 2 | 4 29 36 | 7°24'13 | 13♍ 6 | 26°54 | 20°36 | 16° 2 | 15°27 | 2♊31 | 5° 2 | 1♉51 | 10♉ 0 | 13°D 7 | 11°37 | 15°57 | n.a. | T 2 |
| F 3 | 4 33 33 | 8°25'28 | 25°55 | 27°56 | 21°39 | 16°49 | 15°30 | 2°26 | 5° 3 | 1°50 | 9°59 | 13♎ 8 | 11°34 | 16° 4 | n.a. | F 3 |
| S 4 | 4 37 29 | 9°26'44 | 8♎24 | 28°52 | 22°43 | 17°35 | 15°35 | 2°22 | 5° 3 | 1°48 | 9°58 | 13°R 9 | 11°30 | 16°10 | n.a. | S 4 |
| S 5 | 4 41 26 | 10°28'00 | 20°39 | 29°41 | 23°47 | 18°22 | 15°39 | 2°17 | 5° 4 | 1°47 | 9°57 | 13° 9 | 11°27 | 16°17 | n.a. | S 5 |
| M 6 | 4 45 22 | 11°29'16 | 2♏44 | 0♑23 | 24°51 | 19° 9 | 15°43 | 2°12 | 5° 5 | 1°46 | 9°56 | 13° 6 | 11°24 | 16°24 | n.a. | M 6 |
| T 7 | 4 49 19 | 12°30'32 | 14°41 | 0°57 | 25°55 | 19°56 | 15°48 | 2° 7 | 5° 6 | 1°45 | 9°55 | 13° 2 | 11°21 | 16°30 | n.a. | T 7 |
| W 8 | 4 53 16 | 13°31'48 | 26°35 | 1°21 | 27° 0 | 20°43 | 15°53 | 2° 2 | 5° 7 | 1°43 | 9°54 | 12°54 | 11°18 | 16°37 | n.a. | W 8 |
| T 9 | 4 57 12 | 14°33'04 | 8♐26 | 1°35 | 28° 5 | 21°29 | 15°58 | 1°57 | 5° 8 | 1°42 | 9°53 | 12°44 | 11°14 | 16°44 | n.a. | T 9 |
| F 10 | 5 1 9 | 15°34'20 | 20°17 | 1°R39 | 29°10 | 22°16 | 16° 3 | 1°52 | 5° 9 | 1°41 | 9°52 | 12°32 | 11°11 | 16°51 | n.a. | F 10 |
| S 11 | 5 5 5 | 16°35'35 | 2♑ 9 | 1°31 | 0♏16 | 23° 3 | 16° 9 | 1°48 | 5°11 | 1°40 | 9°51 | 12°18 | 11° 8 | 16°57 | n.a. | S 11 |
| S 12 | 5 9 2 | 17°36'50 | 14° 4 | 1°11 | 1°22 | 23°50 | 16°14 | 1°43 | 5°12 | 1°39 | 9°50 | 12° 5 | 11° 5 | 17° 4 | n.a. | S 12 |
| M13 | 5 12 58 | 18°38'04 | 26° 3 | 0°39 | 2°28 | 24°37 | 16°20 | 1°38 | 5°13 | 1°38 | 9°49 | 11°54 | 11° 2 | 17°11 | n.a. | M13 |
| T 14 | 5 16 55 | 19°39'18 | 8♒ 7 | 29♐56 | 3°34 | 25°24 | 16°26 | 1°34 | 5°15 | 1°37 | 9°49 | 11°44 | 10°59 | 17°17 | n.a. | T 14 |
| W15 | 5 20 52 | 20°40'31 | 20°21 | 29° 2 | 4°41 | 26°11 | 16°32 | 1°29 | 5°16 | 1°36 | 9°48 | 11°37 | 10°55 | 17°24 | n.a. | W15 |
| T 16 | 5 24 48 | 21°41'43 | 2♓46 | 27°59 | 5°47 | 26°58 | 16°38 | 1°24 | 5°17 | 1°35 | 9°47 | 11°33 | 10°52 | 17°31 | n.a. | T 16 |
| F 17 | 5 28 45 | 22°42'54 | 15°28 | 26°49 | 6°54 | 27°45 | 16°45 | 1°20 | 5°19 | 1°34 | 9°46 | 11°31 | 10°49 | 17°38 | n.a. | F 17 |
| S 18 | 5 32 41 | 23°44'05 | 28°29 | 25°34 | 8° 1 | 28°33 | 16°51 | 1°16 | 5°20 | 1°33 | 9°45 | 11°D31 | 10°46 | 17°44 | n.a. | S 18 |
| S 19 | 5 36 38 | 24°45'14 | 11♈55 | 24°16 | 9° 9 | 29°20 | 16°58 | 1°11 | 5°22 | 1°32 | 9°44 | 11°R31 | 10°43 | 17°51 | n.a. | S 19 |
| M20 | 5 40 34 | 25°46'23 | 25°48 | 22°58 | 10°16 | 0♑ 7 | 17° 5 | 1° 7 | 5°24 | 1°31 | 9°44 | 11°30 | 10°40 | 17°58 | n.a. | M20 |
| T 21 | 5 44 31 | 26°47'30 | 10♉ 9 | 21°41 | 11°24 | 0°54 | 17°12 | 1° 3 | 5°25 | 1°30 | 9°43 | 11°28 | 10°36 | 18° 4 | n.a. | T 21 |
| W22 | 5 48 27 | 27°48'37 | 24°56 | 20°29 | 12°32 | 1°41 | 17°20 | 0°59 | 5°27 | 1°30 | 9°42 | 11°22 | 10°33 | 18°11 | n.a. | W22 |
| T 23 | 5 52 24 | 28°49'42 | 10♊ 4 | 19°23 | 13°40 | 2°28 | 17°27 | 0°54 | 5°29 | 1°29 | 9°42 | 11°14 | 10°30 | 18°18 | n.a. | T 23 |
| F 24 | 5 56 21 | 29°50'47 | 25°23 | 18°25 | 14°48 | 3°15 | 17°35 | 0°50 | 5°31 | 1°28 | 9°41 | 11° 4 | 10°27 | 18°25 | n.a. | F 24 |
| S 25 | 6 0 17 | 0♑51'51 | 10♋43 | 17°34 | 15°56 | 4° 3 | 17°42 | 0°46 | 5°32 | 1°27 | 9°40 | 10°52 | 10°24 | 18°31 | n.a. | S 25 |
| S 26 | 6 4 14 | 1°52'54 | 25°52 | 16°53 | 17° 5 | 4°50 | 17°50 | 0°43 | 5°34 | 1°27 | 9°40 | 10°41 | 10°20 | 18°38 | n.a. | S 26 |
| M27 | 6 8 10 | 2°53'56 | 10♌40 | 16°20 | 18°13 | 5°37 | 17°58 | 0°39 | 5°36 | 1°26 | 9°39 | 10°31 | 10°17 | 18°45 | n.a. | M27 |
| T 28 | 6 12 7 | 3°54'58 | 24°59 | 15°57 | 19°22 | 6°24 | 18° 6 | 0°35 | 5°38 | 1°26 | 9°38 | 10°24 | 10°14 | 18°51 | n.a. | T 28 |
| W29 | 6 16 3 | 4°55'58 | 8♍48 | 15°43 | 20°31 | 7°12 | 18°15 | 0°31 | 5°40 | 1°25 | 9°38 | 10°20 | 10°11 | 18°58 | n.a. | W29 |
| T 30 | 6 20 0 | 5°56'58 | 22° 7 | 15°D37 | 21°40 | 7°59 | 18°23 | 0°28 | 5°42 | 1°24 | 9°37 | 10°18 | 10° 8 | 19° 5 | n.a. | T 30 |
| F 31 | 6 23 56 | 6♑57'57 | 4♎59 | 15♐39 | 22♏50 | 8♑46 | 18♓32 | 0♊24 | 5♓44 | 1♉24 | 9♉37 | 10♎17 | 10♎ 5 | 19♐12 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| W 1 | 21 s37 | 8n20 | 3 s31 | 25 s17 | 1 s39 | 5 s 9 | 2n47 | 23 s42 | 0 s49 | 7 s11 | 1 s29 | 19n24 | 1 s32 | 10 s30 | 0 s46 | 10n25 | 1 s57 | 3n41 | 11 s53 | 5 s14 | 4 s40 | 18 s20 | | | n.a. |
| T 2 | 21 47 | 4 20 | 2 34 | 25 10 | 1 30 | 5 32 | 2 49 | 23 47 | 0 50 | 7 9 | 1 29 | 19 23 | 1 32 | 10 29 | 0 46 | 10 25 | 1 57 | 3 41 | 11 53 | 5 14 | 4 38 | 18 20 | | | n.a. |
| F 3 | 21 57 | 0 15 | 1 31 | 25 2 | 1 21 | 5 54 | 2 50 | 23 53 | 0 50 | 7 8 | 1 28 | 19 22 | 1 32 | 10 29 | 0 46 | 10 24 | 1 57 | 3 41 | 11 53 | 5 14 | 4 37 | 18 21 | | | n.a. |
| S 4 | 22 7 | 3 s45 | 0 25 | 24 52 | 1 10 | 6 17 | 2 52 | 23 58 | 0 51 | 7 6 | 1 28 | 19 22 | 1 32 | 10 29 | 0 46 | 10 24 | 1 57 | 3 41 | 11 53 | 5 15 | 4 36 | 18 21 | | | n.a. |
| S 5 | 22 16 | 7 32 | 0n40 | 24 41 | 0 58 | 6 39 | 2 53 | 24 2 | 0 51 | 7 4 | 1 28 | 19 21 | 1 32 | 10 28 | 0 46 | 10 24 | 1 57 | 3 41 | 11 53 | 5 15 | 4 35 | 18 21 | | | n.a. |
| M 6 | 22 24 | 10 57 | 1 43 | 24 28 | 0 45 | 7 2 | 2 54 | 24 7 | 0 52 | 7 2 | 1 27 | 19 20 | 1 32 | 10 28 | 0 46 | 10 23 | 1 57 | 3 41 | 11 52 | 5 14 | 4 33 | 18 21 | | | n.a. |
| T 7 | 22 33 | 13 52 | 2 40 | 24 13 | 0 31 | 7 25 | 2 55 | 24 11 | 0 52 | 7 0 | 1 27 | 19 19 | 1 32 | 10 27 | 0 46 | 10 23 | 1 57 | 3 40 | 11 52 | 5 12 | 4 32 | 18 22 | | | n.a. |
| W 8 | 22 40 | 16 12 | 3 30 | 23 58 | 0 16 | 7 48 | 2 55 | 24 15 | 0 52 | 6 57 | 1 27 | 19 18 | 1 31 | 10 27 | 0 46 | 10 23 | 1 57 | 3 40 | 11 52 | 5 9 | 4 31 | 18 22 | | | n.a. |
| T 9 | 22 48 | 17 50 | 4 11 | 23 41 | 0n 1 | 8 11 | 2 56 | 24 18 | 0 53 | 6 55 | 1 26 | 19 17 | 1 31 | 10 26 | 0 46 | 10 22 | 1 57 | 3 40 | 11 52 | 5 5 | 4 30 | 18 22 | | | n.a. |
| F 10 | 22 55 | 18 41 | 4 40 | 23 23 | 0 18 | 8 34 | 2 56 | 24 22 | 0 53 | 6 53 | 1 26 | 19 17 | 1 31 | 10 26 | 0 46 | 10 22 | 1 57 | 3 40 | 11 52 | 5 0 | 4 28 | 18 23 | | | n.a. |
| S 11 | 23 1 | 18 44 | 4 58 | 23 5 | 0 37 | 8 57 | 2 56 | 24 25 | 0 54 | 6 50 | 1 26 | 19 16 | 1 31 | 10 26 | 0 46 | 10 21 | 1 57 | 3 40 | 11 51 | 4 55 | 4 27 | 18 23 | | | n.a. |
| S 12 | 23 7 | 17 57 | 5 2 | 22 46 | 0 56 | 9 19 | 2 56 | 24 27 | 0 54 | 6 48 | 1 26 | 19 15 | 1 31 | 10 25 | 0 46 | 10 21 | 1 57 | 3 40 | 11 51 | 4 50 | 4 26 | 18 23 | | | n.a. |
| M13 | 23 13 | 16 22 | 4 53 | 22 27 | 1 15 | 9 42 | 2 56 | 24 30 | 0 54 | 6 45 | 1 25 | 19 14 | 1 31 | 10 25 | 0 46 | 10 21 | 1 57 | 3 40 | 11 51 | 4 45 | 4 25 | 18 23 | | | n.a. |
| T 14 | 23 18 | 14 4 | 4 31 | 22 7 | 1 35 | 10 5 | 2 56 | 24 32 | 0 55 | 6 43 | 1 25 | 19 13 | 1 31 | 10 24 | 0 46 | 10 21 | 1 57 | 3 40 | 11 51 | 4 41 | 4 23 | 18 24 | | | n.a. |
| W15 | 23 22 | 11 8 | 3 57 | 21 48 | 1 54 | 10 28 | 2 56 | 24 34 | 0 55 | 6 40 | 1 25 | 19 13 | 1 30 | 10 23 | 0 46 | 10 20 | 1 57 | 3 40 | 11 51 | 4 39 | 4 22 | 18 24 | | | n.a. |
| T 16 | 23 26 | 7 39 | 3 10 | 21 29 | 2 12 | 10 51 | 2 55 | 24 36 | 0 56 | 6 37 | 1 24 | 19 12 | 1 30 | 10 23 | 0 46 | 10 20 | 1 57 | 3 40 | 11 50 | 4 37 | 4 21 | 18 24 | | | n.a. |
| F 17 | 23 30 | 3 44 | 2 14 | 21 11 | 2 29 | 11 13 | 2 54 | 24 37 | 0 56 | 6 35 | 1 24 | 19 11 | 1 30 | 10 22 | 0 46 | 10 20 | 1 57 | 3 40 | 11 50 | 4 36 | 4 20 | 18 25 | | | n.a. |
| S 18 | 23 33 | 0n26 | 1 9 | 20 53 | 2 45 | 11 36 | 2 54 | 24 38 | 0 56 | 6 32 | 1 24 | 19 10 | 1 30 | 10 22 | 0 46 | 10 19 | 1 56 | 3 40 | 11 50 | 4 36 | 4 18 | 18 25 | | | n.a. |
| S 19 | 23 36 | 4 44 | 0 s 2 | 20 37 | 2 58 | 11 58 | 2 53 | 24 39 | 0 57 | 6 29 | 1 24 | 19 10 | 1 30 | 10 21 | 0 46 | 10 19 | 1 56 | 3 40 | 11 50 | 4 36 | 4 17 | 18 25 | | | n.a. |
| M20 | 23 38 | 8 55 | 1 15 | 20 22 | 3 9 | 12 20 | 2 52 | 24 39 | 0 57 | 6 26 | 1 23 | 19 9 | 1 30 | 10 20 | 0 46 | 10 19 | 1 56 | 3 40 | 11 50 | 4 36 | 4 16 | 18 25 | | | n.a. |
| T 21 | 23 40 | 12 43 | 2 25 | 20 9 | 3 18 | 12 43 | 2 51 | 24 39 | 0 57 | 6 23 | 1 23 | 19 8 | 1 29 | 10 20 | 0 45 | 10 19 | 1 56 | 3 40 | 11 49 | 4 35 | 4 15 | 18 26 | | | n.a. |
| W22 | 23 41 | 15 51 | 3 28 | 19 58 | 3 24 | 13 5 | 2 50 | 24 39 | 0 58 | 6 20 | 1 23 | 19 7 | 1 29 | 10 19 | 0 45 | 10 18 | 1 56 | 3 40 | 11 49 | 4 33 | 4 13 | 18 26 | | | n.a. |
| T 23 | 23 42 | 17 57 | 4 18 | 19 49 | 3 28 | 13 26 | 2 48 | 24 39 | 0 58 | 6 16 | 1 22 | 19 7 | 1 29 | 10 18 | 0 45 | 10 18 | 1 56 | 3 40 | 11 49 | 4 30 | 4 12 | 18 26 | | | n.a. |
| F 24 | 23 42 | 18 48 | 4 50 | 19 43 | 3 30 | 13 48 | 2 47 | 24 38 | 0 58 | 6 13 | 1 22 | 19 6 | 1 29 | 10 18 | 0 45 | 10 18 | 1 56 | 3 40 | 11 49 | 4 25 | 4 11 | 18 26 | | | n.a. |
| S 25 | 23 42 | 18 16 | 5 1 | 19 39 | 3 29 | 14 9 | 2 45 | 24 37 | 0 59 | 6 10 | 1 22 | 19 5 | 1 29 | 10 17 | 0 45 | 10 18 | 1 56 | 3 40 | 11 48 | 4 21 | 4 10 | 18 27 | | | n.a. |
| S 26 | 23 41 | 16 27 | 4 50 | 19 37 | 3 27 | 14 30 | 2 44 | 24 36 | 0 59 | 6 6 | 1 22 | 19 5 | 1 29 | 10 16 | 0 45 | 10 18 | 1 56 | 3 40 | 11 48 | 4 16 | 4 8 | 18 27 | | | n.a. |
| M27 | 23 40 | 13 35 | 4 21 | 19 38 | 3 23 | 14 51 | 2 42 | 24 34 | 0 59 | 6 3 | 1 21 | 19 4 | 1 28 | 10 16 | 0 45 | 10 18 | 1 56 | 3 40 | 11 48 | 4 13 | 4 7 | 18 27 | | | n.a. |
| T 28 | 23 39 | 9 58 | 3 35 | 19 41 | 3 17 | 15 12 | 2 40 | 24 32 | 0 59 | 6 0 | 1 21 | 19 4 | 1 28 | 10 15 | 0 45 | 10 17 | 1 56 | 3 40 | 11 48 | 4 10 | 4 6 | 18 27 | | | n.a. |
| W29 | 23 37 | 5 55 | 2 38 | 19 46 | 3 10 | 15 32 | 2 38 | 24 30 | 1 0 | 5 56 | 1 21 | 19 3 | 1 28 | 10 14 | 0 45 | 10 17 | 1 56 | 3 40 | 11 48 | 4 8 | 4 5 | 18 27 | | | n.a. |
| T 30 | 23 34 | 1 43 | 1 35 | 19 53 | 3 3 | 15 52 | 2 36 | 24 27 | 1 0 | 5 52 | 1 21 | 19 3 | 1 28 | 10 13 | 0 45 | 10 17 | 1 56 | 3 40 | 11 47 | 4 7 | 4 3 | 18 28 | | | n.a. |
| F 31 | 23 s31 | 2 s26 | 0 s28 | 20 s 2 | 2n54 | 16 s12 | 2n34 | 24 s25 | 1 s 0 | 5 s49 | 1 s20 | 19n 2 | 1 s28 | 10 s12 | 0 s45 | 10n17 | 1 s56 | 3n40 | 11 s47 | 4 s 7 | 4 s 2 | 18 s28 | | | n.a. |

Julian Day Number = 1688884.5, Delta T = 03h11m32s
Ecliptic obliquity = 23°42'12, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°17'41, Lahiri = - 5°10'41 Julian Calendar 1 Dec. 90 BCE == Greg. Calendar 29 Nov. 090 BCE

The year -89 astronomical counting style corresponds to year 090 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 89 BCE
# geocentric

## JANUARY 89 BCE (-88) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 27 53 | 7♑58'55 | 17♎29 | 15♐48 | 23♏59 | 9♑34 | 18♓41 | 0°R21 | 5♓47 | 1°R23 | 9°R36 | 10°R17 | 10♎ 1 | 19♐18 | n.a. | S 1 |
| S 2 | 6 31 50 | 8°59'53 | 29°41 | 16° 4 | 25° 8 | 10°21 | 18°49 | 0♊17 | 5°49 | 1♉23 | 9♉35 | 10♎16 | 9°58 | 19°25 | n.a. | S 2 |
| M 3 | 6 35 46 | 10° 0'49 | 11♏42 | 16°27 | 26°18 | 11° 8 | 18°58 | 0°14 | 5°51 | 1°23 | 9°35 | 10°13 | 9°55 | 19°32 | n.a. | M 3 |
| T 4 | 6 39 43 | 11° 1'45 | 23°35 | 16°55 | 27°28 | 11°56 | 19° 8 | 0°11 | 5°53 | 1°22 | 9°34 | 10° 8 | 9°52 | 19°38 | n.a. | T 4 |
| W 5 | 6 43 39 | 12° 2'39 | 5♐25 | 17°29 | 28°38 | 12°43 | 19°17 | 0° 8 | 5°55 | 1°22 | 9°34 | 9°59 | 9°49 | 19°45 | n.a. | W 5 |
| T 6 | 6 47 36 | 13° 3'33 | 17°15 | 18° 8 | 29°48 | 13°30 | 19°26 | 0° 5 | 5°58 | 1°22 | 9°34 | 9°47 | 9°46 | 19°52 | n.a. | T 6 |
| F 7 | 6 51 32 | 14° 4'25 | 29° 7 | 18°51 | 0♐58 | 14°18 | 19°36 | 0° 2 | 6° 0 | 1°21 | 9°33 | 9°34 | 9°42 | 19°59 | n.a. | F 7 |
| S 8 | 6 55 29 | 15° 5'16 | 11♑ 3 | 19°38 | 2° 8 | 15° 5 | 19°46 | 29♉59 | 6° 3 | 1°21 | 9°33 | 9°19 | 9°39 | 20° 5 | n.a. | S 8 |
| S 9 | 6 59 25 | 16° 6'06 | 23° 4 | 20°29 | 3°18 | 15°52 | 19°55 | 29°57 | 6° 5 | 1°21 | 9°32 | 9° 4 | 9°36 | 20°12 | n.a. | S 9 |
| M10 | 7 3 22 | 17° 6'54 | 5♒12 | 21°24 | 4°28 | 16°40 | 20° 5 | 29°54 | 6° 8 | 1°21 | 9°32 | 8°50 | 9°33 | 20°19 | n.a. | M10 |
| T 11 | 7 7 19 | 18° 7'40 | 17°27 | 22°21 | 5°39 | 17°27 | 20°15 | 29°52 | 6°10 | 1°21 | 9°32 | 8°39 | 9°30 | 20°25 | n.a. | T 11 |
| W12 | 7 11 15 | 19° 8'25 | 29°50 | 23°21 | 6°49 | 18°14 | 20°25 | 29°49 | 6°13 | 1°20 | 9°31 | 8°30 | 9°26 | 20°32 | n.a. | W12 |
| T 13 | 7 15 12 | 20° 9'09 | 12♓24 | 24°24 | 8° 0 | 19° 2 | 20°36 | 29°47 | 6°15 | 1°20 | 9°31 | 8°25 | 9°23 | 20°39 | n.a. | T 13 |
| F 14 | 7 19 8 | 21° 9'50 | 25°11 | 25°29 | 9°11 | 19°49 | 20°46 | 29°45 | 6°18 | 1°D20 | 9°31 | 8°22 | 9°20 | 20°46 | n.a. | F 14 |
| S 15 | 7 23 5 | 22°10'30 | 8♈13 | 26°37 | 10°21 | 20°37 | 20°57 | 29°43 | 6°20 | 1°20 | 9°30 | 8°D22 | 9°17 | 20°52 | n.a. | S 15 |
| S 16 | 7 27 1 | 23°11'08 | 21°34 | 27°46 | 11°32 | 21°24 | 21° 7 | 29°41 | 6°23 | 1°20 | 9°30 | 8°R22 | 9°14 | 20°59 | n.a. | S 16 |
| M17 | 7 30 58 | 24°11'44 | 5♉17 | 28°57 | 12°43 | 22°11 | 21°18 | 29°39 | 6°26 | 1°20 | 9°30 | 8°22 | 9°11 | 21° 6 | n.a. | M17 |
| T 18 | 7 34 54 | 25°12'18 | 19°22 | 0♑11 | 13°54 | 22°59 | 21°29 | 29°37 | 6°29 | 1°21 | 9°30 | 8°19 | 9° 7 | 21°12 | n.a. | T 18 |
| W19 | 7 38 51 | 26°12'50 | 3♊51 | 1°26 | 15° 5 | 23°46 | 21°40 | 29°36 | 6°31 | 1°21 | 9°30 | 8°15 | 9° 4 | 21°19 | n.a. | W19 |
| T 20 | 7 42 48 | 27°13'20 | 18°39 | 2°42 | 16°16 | 24°33 | 21°51 | 29°34 | 6°34 | 1°21 | 9°30 | 8° 8 | 9° 1 | 21°26 | n.a. | T 20 |
| F 21 | 7 46 44 | 28°13'49 | 3♋41 | 4° 0 | 17°27 | 25°21 | 22° 2 | 29°33 | 6°37 | 1°21 | 9°29 | 7°58 | 8°58 | 21°33 | n.a. | F 21 |
| S 22 | 7 50 41 | 29°14'16 | 18°47 | 5°19 | 18°38 | 26° 8 | 22°13 | 29°31 | 6°40 | 1°21 | 9°29 | 7°48 | 8°55 | 21°39 | n.a. | S 22 |
| S 23 | 7 54 37 | 0♒14'40 | 3♌48 | 6°40 | 19°50 | 26°55 | 22°24 | 29°30 | 6°43 | 1°22 | 9°29 | 7°37 | 8°52 | 21°46 | n.a. | S 23 |
| M24 | 7 58 34 | 1°15'03 | 18°34 | 8° 2 | 21° 1 | 27°43 | 22°36 | 29°29 | 6°46 | 1°22 | 9°29 | 7°28 | 8°48 | 21°53 | n.a. | M24 |
| T 25 | 8 2 30 | 2°15'25 | 2♍56 | 9°26 | 22°12 | 28°30 | 22°47 | 29°28 | 6°49 | 1°22 | 9°29 | 7°21 | 8°45 | 21°59 | n.a. | T 25 |
| W26 | 8 6 27 | 3°15'44 | 16°51 | 10°51 | 23°24 | 29°17 | 22°59 | 29°27 | 6°52 | 1°23 | 9°D29 | 7°17 | 8°42 | 22° 6 | n.a. | W26 |
| T 27 | 8 10 23 | 4°16'02 | 0♎17 | 12°16 | 24°35 | 0♒ 5 | 23°10 | 29°26 | 6°55 | 1°23 | 9°29 | 7°15 | 8°39 | 22°13 | n.a. | T 27 |
| F 28 | 8 14 20 | 5°16'18 | 13°16 | 13°43 | 25°47 | 0°52 | 23°22 | 29°26 | 6°58 | 1°24 | 9°29 | 7°D15 | 8°36 | 22°20 | n.a. | F 28 |
| S 29 | 8 18 17 | 6°16'33 | 25°52 | 15°12 | 26°58 | 1°39 | 23°34 | 29°25 | 7° 1 | 1°24 | 9°29 | 7°16 | 8°32 | 22°26 | n.a. | S 29 |
| S 30 | 8 22 13 | 7°16'46 | 8♏ 8 | 16°41 | 28°10 | 2°26 | 23°46 | 29°25 | 7° 4 | 1°25 | 9°29 | 7°R16 | 8°29 | 22°33 | n.a. | S 30 |
| M31 | 8 26 10 | 8♒16'58 | 20♏11 | 18♑11 | 29♐22 | 3♒14 | 23♓58 | 29♉24 | 7♓ 7 | 1♉25 | 9♉29 | 7♎15 | 8♎26 | 22♐40 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23s28 | 6s21 | 0n38 | 20s12 | 2n45 | 16s31 | 2n32 | 24s22 | 1s 1 | 5s45 | 1s20 | 19n 1 | 1s27 | 10s12 | 0s45 | 10n17 | 1s56 | 3n40 | 11s47 | 4s 7 | 4s 1 | 18s28 | | n.a. |
| S 2 | 23 24 | 9 55 | 1 41 | 20 23 | 2 36 | 16 50 | 2 30 | 24 18 | 1 1 | 5 41 | 1 20 | 19 1 | 1 27 | 10 11 | 0 45 | 10 17 | 1 56 | 3 40 | 11 46 | 4 7 | 3 59 | 18 28 | | n.a. |
| M 3 | 23 19 | 13 1 | 2 38 | 20 35 | 2 26 | 17 9 | 2 27 | 24 15 | 1 1 | 5 38 | 1 20 | 19 0 | 1 27 | 10 10 | 0 45 | 10 17 | 1 55 | 3 40 | 11 46 | 4 5 | 3 58 | 18 29 | | n.a. |
| T 4 | 23 14 | 15 32 | 3 27 | 20 48 | 2 16 | 17 28 | 2 25 | 24 11 | 1 1 | 5 34 | 1 19 | 19 0 | 1 27 | 10 9 | 0 45 | 10 17 | 1 55 | 3 40 | 11 46 | 4 3 | 3 57 | 18 29 | | n.a. |
| W 5 | 23 9 | 17 23 | 4 8 | 21 1 | 2 6 | 17 46 | 2 22 | 24 6 | 1 2 | 5 30 | 1 19 | 19 0 | 1 27 | 10 8 | 0 45 | 10 17 | 1 55 | 3 40 | 11 46 | 4 0 | 3 56 | 18 29 | | n.a. |
| T 6 | 23 3 | 18 29 | 4 37 | 21 15 | 1 55 | 18 3 | 2 20 | 24 2 | 1 2 | 5 26 | 1 19 | 18 59 | 1 26 | 10 7 | 0 45 | 10 17 | 1 55 | 3 40 | 11 45 | 3 55 | 3 54 | 18 29 | | n.a. |
| F 7 | 22 57 | 18 48 | 4 54 | 21 29 | 1 45 | 18 20 | 2 17 | 23 57 | 1 2 | 5 22 | 1 19 | 18 59 | 1 26 | 10 6 | 0 45 | 10 17 | 1 55 | 3 41 | 11 45 | 3 50 | 3 53 | 18 29 | | n.a. |
| S 8 | 22 50 | 18 16 | 4 59 | 21 44 | 1 34 | 18 37 | 2 14 | 23 52 | 1 2 | 5 18 | 1 18 | 18 58 | 1 26 | 10 5 | 0 45 | 10 16 | 1 55 | 3 41 | 11 45 | 3 44 | 3 52 | 18 30 | | n.a. |
| S 9 | 22 43 | 16 56 | 4 51 | 21 58 | 1 24 | 18 54 | 2 12 | 23 47 | 1 2 | 5 14 | 1 18 | 18 58 | 1 26 | 10 4 | 0 45 | 10 16 | 1 55 | 3 41 | 11 45 | 3 38 | 3 51 | 18 30 | | n.a. |
| M10 | 22 36 | 14 50 | 4 29 | 22 12 | 1 14 | 19 10 | 2 9 | 23 41 | 1 3 | 5 10 | 1 18 | 18 58 | 1 25 | 10 3 | 0 45 | 10 16 | 1 55 | 3 41 | 11 44 | 3 32 | 3 49 | 18 30 | | n.a. |
| T 11 | 22 28 | 12 3 | 3 54 | 22 25 | 1 3 | 19 25 | 2 6 | 23 35 | 1 3 | 5 5 | 1 18 | 18 57 | 1 25 | 10 2 | 0 45 | 10 16 | 1 55 | 3 41 | 11 44 | 3 28 | 3 48 | 18 30 | | n.a. |
| W12 | 22 19 | 8 43 | 3 9 | 22 39 | 0 53 | 19 40 | 2 3 | 23 29 | 1 3 | 5 1 | 1 17 | 18 57 | 1 25 | 10 1 | 0 45 | 10 17 | 1 55 | 3 41 | 11 44 | 3 24 | 3 47 | 18 30 | | n.a. |
| T 13 | 22 10 | 4 56 | 2 13 | 22 52 | 0 44 | 19 55 | 2 0 | 23 23 | 1 3 | 4 57 | 1 17 | 18 57 | 1 25 | 10 0 | 0 45 | 10 17 | 1 55 | 3 41 | 11 44 | 3 22 | 3 46 | 18 30 | | n.a. |
| F 14 | 22 1 | 0 53 | 1 9 | 23 4 | 0 34 | 20 9 | 1 57 | 23 16 | 1 3 | 4 52 | 1 17 | 18 57 | 1 25 | 9 59 | 0 45 | 10 17 | 1 55 | 3 42 | 11 43 | 3 21 | 3 44 | 18 31 | | n.a. |
| S 15 | 21 51 | 3n18 | 0 1 | 23 15 | 0 24 | 20 22 | 1 54 | 23 9 | 1 4 | 4 48 | 1 17 | 18 56 | 1 24 | 9 58 | 0 45 | 10 17 | 1 55 | 3 42 | 11 43 | 3 21 | 3 43 | 18 31 | | n.a. |
| S 16 | 21 41 | 7 26 | 1s 9 | 23 26 | 0 15 | 20 35 | 1 51 | 23 2 | 1 4 | 4 44 | 1 16 | 18 56 | 1 24 | 9 57 | 0 45 | 10 17 | 1 55 | 3 42 | 11 43 | 3 21 | 3 42 | 18 31 | | n.a. |
| M17 | 21 31 | 11 16 | 2 17 | 23 36 | 0 6 | 20 48 | 1 48 | 22 54 | 1 4 | 4 39 | 1 16 | 18 56 | 1 24 | 9 56 | 0 45 | 10 17 | 1 55 | 3 42 | 11 42 | 3 21 | 3 41 | 18 31 | | n.a. |
| T 18 | 21 20 | 14 34 | 3 19 | 23 45 | 0s 3 | 21 0 | 1 44 | 22 46 | 1 4 | 4 35 | 1 16 | 18 56 | 1 24 | 9 55 | 0 45 | 10 17 | 1 54 | 3 42 | 11 42 | 3 20 | 3 39 | 18 31 | | n.a. |
| W19 | 21 8 | 17 4 | 4 10 | 23 53 | 0 12 | 21 11 | 1 41 | 22 38 | 1 4 | 4 30 | 1 16 | 18 56 | 1 23 | 9 54 | 0 45 | 10 17 | 1 54 | 3 43 | 11 42 | 3 18 | 3 38 | 18 31 | | n.a. |
| T 20 | 20 57 | 18 29 | 4 45 | 24 0 | 0 20 | 21 22 | 1 38 | 22 30 | 1 4 | 4 26 | 1 16 | 18 56 | 1 23 | 9 53 | 0 45 | 10 17 | 1 54 | 3 43 | 11 42 | 3 16 | 3 37 | 18 32 | | n.a. |
| F 21 | 20 45 | 18 38 | 5 1 | 24 7 | 0 28 | 21 32 | 1 35 | 22 22 | 1 4 | 4 21 | 1 15 | 18 56 | 1 23 | 9 52 | 0 45 | 10 17 | 1 54 | 3 43 | 11 41 | 3 12 | 3 35 | 18 32 | | n.a. |
| S 22 | 20 32 | 17 28 | 4 57 | 24 12 | 0 36 | 21 42 | 1 31 | 22 13 | 1 5 | 4 16 | 1 15 | 18 55 | 1 23 | 9 51 | 0 45 | 10 17 | 1 54 | 3 43 | 11 41 | 3 8 | 3 34 | 18 32 | | n.a. |
| S 23 | 20 19 | 15 7 | 4 31 | 24 15 | 0 43 | 21 51 | 1 28 | 22 4 | 1 5 | 4 12 | 1 15 | 18 55 | 1 22 | 9 50 | 0 44 | 10 18 | 1 54 | 3 44 | 11 41 | 3 3 | 3 33 | 18 32 | | n.a. |
| M24 | 20 6 | 11 49 | 3 49 | 24 18 | 0 51 | 21 59 | 1 24 | 21 54 | 1 5 | 4 7 | 1 15 | 18 55 | 1 22 | 9 49 | 0 44 | 10 18 | 1 54 | 3 44 | 11 40 | 3 0 | 3 32 | 18 32 | | n.a. |
| T 25 | 19 52 | 7 52 | 2 52 | 24 19 | 0 58 | 22 7 | 1 21 | 21 45 | 1 5 | 4 2 | 1 15 | 18 55 | 1 22 | 9 48 | 0 44 | 10 18 | 1 54 | 3 44 | 11 40 | 2 57 | 3 30 | 18 32 | | n.a. |
| W26 | 19 39 | 3 37 | 1 46 | 24 20 | 1 4 | 22 15 | 1 18 | 21 35 | 1 5 | 3 57 | 1 14 | 18 56 | 1 22 | 9 47 | 0 44 | 10 18 | 1 54 | 3 44 | 11 40 | 2 55 | 3 29 | 18 32 | | n.a. |
| T 27 | 19 24 | 0s41 | 0 37 | 24 18 | 1 11 | 22 21 | 1 14 | 21 25 | 1 5 | 3 52 | 1 14 | 18 56 | 1 22 | 9 45 | 0 44 | 10 18 | 1 54 | 3 45 | 11 40 | 2 55 | 3 28 | 18 33 | | n.a. |
| F 28 | 19 10 | 4 48 | 0n32 | 24 16 | 1 17 | 22 27 | 1 11 | 21 15 | 1 5 | 3 48 | 1 14 | 18 56 | 1 21 | 9 44 | 0 44 | 10 19 | 1 54 | 3 45 | 11 39 | 2 55 | 3 27 | 18 33 | | n.a. |
| S 29 | 18 55 | 8 35 | 1 38 | 24 12 | 1 23 | 22 33 | 1 7 | 21 4 | 1 5 | 3 43 | 1 14 | 18 56 | 1 21 | 9 43 | 0 44 | 10 19 | 1 54 | 3 45 | 11 39 | 2 55 | 3 25 | 18 33 | | n.a. |
| S 30 | 18 39 | 11 54 | 2 37 | 24 7 | 1 28 | 22 38 | 1 4 | 20 53 | 1 5 | 3 38 | 1 14 | 18 56 | 1 21 | 9 42 | 0 44 | 10 19 | 1 54 | 3 45 | 11 39 | 2 55 | 3 24 | 18 33 | | n.a. |
| M31 | 18s24 | 14s38 | 3n29 | 24s 0 | 1s34 | 22s42 | 1n 0 | 20s43 | 1s 5 | 3s33 | 1s14 | 18n56 | 1s21 | 9s41 | 0s44 | 10n19 | 1s54 | 3n46 | 11s38 | 2s55 | 3s23 | 18s33 | | n.a. |

Julian Day Number = 1688915.5, Delta T = 03h11m31s
Ecliptic obliquity = 23°42'11, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°17'37, Lahiri = - 5°10'37 Julian Calendar 1 Jan. 89 BCE == Greg. Calendar 30 Dec. 090 BCE

The year -88 astronomical counting style corresponds to year 089 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 89 BCE
# geocentric

## FEBRUARY 89 BCE (-88) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 30 6 | 9♒17'08 | 2♐ 5 | 19♑43 | 0♑33 | 4♒ 1 | 24♓10 | 29°R24 | 7♓10 | 1♉26 | 9♉30 | 7°R13 | 8♎23 | 22♐46 | n.a. | T 1 |
| W 2 | 8 34 3 | 10°17'16 | 13°55 | 21°16 | 1°45 | 4°48 | 24°22 | 29°D24 | 7°13 | 1°26 | 9°30 | 7♎ 7 | 8°20 | 22°53 | n.a. | W 2 |
| T 3 | 8 37 59 | 11°17'23 | 25°46 | 22°49 | 2°57 | 5°35 | 24°35 | 29♉24 | 7°16 | 1°27 | 9°30 | 7° 0 | 8°17 | 23° 0 | n.a. | T 3 |
| F 4 | 8 41 56 | 12°17'27 | 7♑41 | 24°24 | 4° 9 | 6°23 | 24°47 | 29°24 | 7°19 | 1°28 | 9°30 | 6°50 | 8°13 | 23° 7 | n.a. | F 4 |
| S 5 | 8 45 52 | 13°17'30 | 19°42 | 26° 0 | 5°21 | 7°10 | 24°59 | 29°25 | 7°23 | 1°28 | 9°30 | 6°40 | 8°10 | 23°13 | n.a. | S 5 |
| S 6 | 8 49 49 | 14°17'31 | 1♒52 | 27°37 | 6°33 | 7°57 | 25°12 | 29°25 | 7°26 | 1°29 | 9°30 | 6°29 | 8° 7 | 23°20 | n.a. | S 6 |
| M 7 | 8 53 46 | 15°17'30 | 14°11 | 29°15 | 7°45 | 8°44 | 25°24 | 29°26 | 7°29 | 1°30 | 9°31 | 6°20 | 8° 4 | 23°27 | n.a. | M 7 |
| T 8 | 8 57 42 | 16°17'27 | 26°41 | 0♒55 | 8°57 | 9°31 | 25°37 | 29°26 | 7°32 | 1°31 | 9°31 | 6°12 | 8° 1 | 23°34 | n.a. | T 8 |
| W 9 | 9 1 39 | 17°17'22 | 9♓21 | 2°35 | 10° 9 | 10°18 | 25°50 | 29°27 | 7°36 | 1°32 | 9°31 | 6° 6 | 7°58 | 23°40 | n.a. | W 9 |
| T 10 | 9 5 35 | 18°17'15 | 22°12 | 4°17 | 11°21 | 11° 5 | 26° 2 | 29°28 | 7°39 | 1°32 | 9°32 | 6° 3 | 7°54 | 23°47 | n.a. | T 10 |
| F 11 | 9 9 32 | 19°17'05 | 5♈15 | 5°59 | 12°33 | 11°52 | 26°15 | 29°29 | 7°42 | 1°33 | 9°32 | 6°D 2 | 7°51 | 23°54 | n.a. | F 11 |
| S 12 | 9 13 28 | 20°16'54 | 18°30 | 7°43 | 13°45 | 12°39 | 26°28 | 29°30 | 7°45 | 1°34 | 9°32 | 6° 3 | 7°48 | 24° 0 | n.a. | S 12 |
| S 13 | 9 17 25 | 21°16'40 | 1♉59 | 9°28 | 14°57 | 13°26 | 26°41 | 29°31 | 7°49 | 1°35 | 9°33 | 6° 4 | 7°45 | 24° 7 | n.a. | S 13 |
| M14 | 9 21 21 | 22°16'23 | 15°43 | 11°14 | 16° 9 | 14°13 | 26°54 | 29°32 | 7°52 | 1°36 | 9°33 | 6°R 5 | 7°42 | 24°14 | n.a. | M14 |
| T 15 | 9 25 18 | 23°16'04 | 29°43 | 13° 2 | 17°22 | 15° 0 | 27° 7 | 29°34 | 7°55 | 1°37 | 9°33 | 6° 5 | 7°38 | 24°21 | n.a. | T 15 |
| W16 | 9 29 15 | 24°15'43 | 13♊57 | 14°50 | 18°34 | 15°47 | 27°20 | 29°35 | 7°59 | 1°38 | 9°34 | 6° 3 | 7°35 | 24°27 | n.a. | W16 |
| T 17 | 9 33 11 | 25°15'20 | 28°24 | 16°40 | 19°46 | 16°34 | 27°33 | 29°37 | 8° 2 | 1°39 | 9°34 | 6° 0 | 7°32 | 24°34 | n.a. | T 17 |
| F 18 | 9 37 8 | 26°14'54 | 13♋ 1 | 18°31 | 20°58 | 17°21 | 27°47 | 29°38 | 8° 5 | 1°41 | 9°35 | 5°55 | 7°29 | 24°41 | n.a. | F 18 |
| S 19 | 9 41 4 | 27°14'25 | 27°41 | 20°23 | 22°11 | 18° 8 | 28° 0 | 29°40 | 8° 9 | 1°42 | 9°35 | 5°49 | 7°26 | 24°47 | n.a. | S 19 |
| S 20 | 9 45 1 | 28°13'55 | 12♌17 | 22°17 | 23°23 | 18°55 | 28°13 | 29°42 | 8°12 | 1°43 | 9°36 | 5°43 | 7°23 | 24°54 | n.a. | S 20 |
| M21 | 9 48 57 | 29°13'22 | 26°43 | 24°12 | 24°35 | 19°42 | 28°27 | 29°44 | 8°16 | 1°44 | 9°36 | 5°38 | 7°19 | 25° 1 | n.a. | M21 |
| T 22 | 9 52 54 | 0♓12'47 | 10♍52 | 26° 7 | 25°48 | 20°28 | 28°40 | 29°46 | 8°19 | 1°45 | 9°37 | 5°34 | 7°16 | 25° 8 | n.a. | T 22 |
| W23 | 9 56 50 | 1°12'09 | 24°40 | 28° 4 | 27° 0 | 21°15 | 28°54 | 29°49 | 8°22 | 1°47 | 9°38 | 5°32 | 7°13 | 25°14 | n.a. | W23 |
| T 24 | 10 0 47 | 2°11'30 | 8♎ 4 | 0♓ 3 | 28°12 | 22° 2 | 29° 7 | 29°51 | 8°26 | 1°48 | 9°38 | 5°D32 | 7°10 | 25°21 | n.a. | T 24 |
| F 25 | 10 4 43 | 3°10'49 | 21° 5 | 2° 2 | 29°25 | 22°48 | 29°21 | 29°53 | 8°29 | 1°49 | 9°39 | 5°32 | 7° 7 | 25°28 | n.a. | F 25 |
| S 26 | 10 8 40 | 4°10'06 | 3♏44 | 4° 2 | 0♒37 | 23°35 | 29°34 | 29°56 | 8°33 | 1°51 | 9°39 | 5°34 | 7° 3 | 25°34 | n.a. | S 26 |
| S 27 | 10 12 37 | 5° 9'21 | 16° 5 | 6° 3 | 1°50 | 24°22 | 29°48 | 29°59 | 8°36 | 1°52 | 9°40 | 5°36 | 7° 0 | 25°41 | n.a. | S 27 |
| M28 | 10 16 33 | 6° 8'34 | 28°12 | 8° 5 | 3° 2 | 25° 8 | 0♈ 2 | 0♊ 2 | 8°39 | 1°53 | 9°41 | 5°37 | 6°57 | 25°48 | n.a. | M28 |
| T 29 | 10 20 30 | 7♓ 7'45 | 10♐ 9 | 10♓ 8 | 4♒15 | 25♒55 | 0♈15 | 0♊ 4 | 8♓43 | 1♉55 | 9♉41 | 5°R37 | 6♎54 | 25♐55 | n.a. | T 29 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 18s 8 | 16s43 | 4n10 | 23s51 | 1s38 | 22s45 | 0n57 | 20s31 | 1s 5 | 3s28 | 1s13 | 18n56 | 1s20 | 9s40 | 0s44 | 10n20 | 1s54 | 3n46 | 11s38 | 2s53 | 3s22 | 18s33 | | n.a. |
| W 2 | 17 51 | 18 5 | 4 41 | 23 42 | 1 43 | 22 48 | 0 53 | 20 20 | 1 5 | 3 23 | 1 13 | 18 56 | 1 20 | 9 38 | 0 44 | 10 20 | 1 53 | 3 46 | 11 38 | 2 51 | 3 20 | 18 33 | | n.a. |
| T 3 | 17 35 | 18 39 | 4 59 | 23 30 | 1 47 | 22 51 | 0 50 | 20 8 | 1 5 | 3 18 | 1 13 | 18 57 | 1 20 | 9 37 | 0 44 | 10 20 | 1 53 | 3 47 | 11 38 | 2 48 | 3 19 | 18 33 | | n.a. |
| F 4 | 17 18 | 18 24 | 5 5 | 23 17 | 1 51 | 22 52 | 0 46 | 19 56 | 1 6 | 3 12 | 1 13 | 18 57 | 1 20 | 9 36 | 0 44 | 10 21 | 1 53 | 3 47 | 11 37 | 2 45 | 3 18 | 18 34 | | n.a. |
| S 5 | 17 1 | 17 20 | 4 57 | 23 3 | 1 54 | 22 53 | 0 43 | 19 44 | 1 6 | 3 7 | 1 13 | 18 57 | 1 19 | 9 35 | 0 44 | 10 21 | 1 53 | 3 47 | 11 37 | 2 40 | 3 17 | 18 34 | | n.a. |
| S 6 | 16 43 | 15 29 | 4 36 | 22 47 | 1 57 | 22 53 | 0 39 | 19 32 | 1 6 | 3 2 | 1 13 | 18 58 | 1 19 | 9 34 | 0 44 | 10 21 | 1 53 | 3 48 | 11 37 | 2 36 | 3 15 | 18 34 | | n.a. |
| M 7 | 16 26 | 12 54 | 4 2 | 22 29 | 2 0 | 22 53 | 0 36 | 19 20 | 1 6 | 2 57 | 1 12 | 18 58 | 1 19 | 9 32 | 0 44 | 10 21 | 1 53 | 3 48 | 11 36 | 2 32 | 3 14 | 18 34 | | n.a. |
| T 8 | 16 8 | 9 42 | 3 15 | 22 10 | 2 2 | 22 52 | 0 32 | 19 7 | 1 6 | 2 52 | 1 12 | 18 58 | 1 19 | 9 31 | 0 44 | 10 22 | 1 53 | 3 48 | 11 36 | 2 29 | 3 13 | 18 34 | | n.a. |
| W 9 | 15 49 | 6 1 | 2 19 | 21 49 | 2 4 | 22 50 | 0 29 | 18 54 | 1 6 | 2 47 | 1 12 | 18 59 | 1 18 | 9 30 | 0 44 | 10 22 | 1 53 | 3 49 | 11 36 | 2 27 | 3 11 | 18 34 | | n.a. |
| T 10 | 15 31 | 2 0 | 1 14 | 21 26 | 2 5 | 22 47 | 0 25 | 18 41 | 1 6 | 2 41 | 1 12 | 18 59 | 1 18 | 9 29 | 0 44 | 10 23 | 1 53 | 3 49 | 11 36 | 2 26 | 3 10 | 18 34 | | n.a. |
| F 11 | 15 12 | 2n10 | 0 4 | 21 1 | 2 6 | 22 44 | 0 22 | 18 28 | 1 6 | 2 36 | 1 12 | 19 0 | 1 18 | 9 27 | 0 44 | 10 23 | 1 53 | 3 50 | 11 35 | 2 25 | 3 9 | 18 34 | | n.a. |
| S 12 | 14 53 | 6 18 | 1s 7 | 20 35 | 2 7 | 22 41 | 0 19 | 18 15 | 1 6 | 2 31 | 1 12 | 19 0 | 1 18 | 9 26 | 0 44 | 10 23 | 1 53 | 3 50 | 11 35 | 2 26 | 3 8 | 18 34 | | n.a. |
| S 13 | 14 34 | 10 11 | 2 16 | 20 7 | 2 7 | 22 36 | 0 15 | 18 1 | 1 5 | 2 25 | 1 11 | 19 0 | 1 17 | 9 25 | 0 44 | 10 24 | 1 53 | 3 50 | 11 35 | 2 26 | 3 6 | 18 34 | | n.a. |
| M14 | 14 14 | 13 34 | 3 18 | 19 38 | 2 7 | 22 31 | 0 12 | 17 47 | 1 5 | 2 20 | 1 11 | 19 1 | 1 17 | 9 24 | 0 44 | 10 24 | 1 53 | 3 51 | 11 35 | 2 26 | 3 5 | 18 35 | | n.a. |
| T 15 | 13 55 | 16 15 | 4 10 | 19 6 | 2 6 | 22 25 | 0 8 | 17 33 | 1 5 | 2 15 | 1 11 | 19 2 | 1 17 | 9 22 | 0 44 | 10 25 | 1 53 | 3 51 | 11 34 | 2 26 | 3 4 | 18 35 | | n.a. |
| W16 | 13 35 | 17 58 | 4 47 | 18 33 | 2 5 | 22 19 | 0 5 | 17 19 | 1 5 | 2 9 | 1 11 | 19 2 | 1 17 | 9 21 | 0 44 | 10 25 | 1 53 | 3 51 | 11 34 | 2 26 | 3 3 | 18 35 | | n.a. |
| T 17 | 13 15 | 18 35 | 5 7 | 17 58 | 2 3 | 22 12 | 0 2 | 17 5 | 1 5 | 2 4 | 1 11 | 19 3 | 1 17 | 9 20 | 0 44 | 10 25 | 1 52 | 3 52 | 11 34 | 2 24 | 3 1 | 18 35 | | n.a. |
| F 18 | 12 54 | 17 58 | 5 7 | 17 21 | 2 1 | 22 4 | 0s 1 | 16 50 | 1 5 | 1 58 | 1 11 | 19 3 | 1 16 | 9 18 | 0 44 | 10 26 | 1 52 | 3 52 | 11 33 | 2 22 | 3 0 | 18 35 | | n.a. |
| S 19 | 12 34 | 16 9 | 4 48 | 16 43 | 1 58 | 21 56 | 0 5 | 16 36 | 1 5 | 1 53 | 1 11 | 19 4 | 1 16 | 9 17 | 0 44 | 10 26 | 1 52 | 3 53 | 11 33 | 2 20 | 2 59 | 18 35 | | n.a. |
| S 20 | 12 13 | 13 19 | 4 9 | 16 2 | 1 54 | 21 47 | 0 8 | 16 21 | 1 5 | 1 47 | 1 11 | 19 5 | 1 16 | 9 16 | 0 44 | 10 27 | 1 52 | 3 53 | 11 33 | 2 18 | 2 57 | 18 35 | | n.a. |
| M21 | 11 52 | 9 41 | 3 15 | 15 20 | 1 51 | 21 37 | 0 11 | 16 6 | 1 5 | 1 42 | 1 10 | 19 5 | 1 16 | 9 15 | 0 44 | 10 27 | 1 52 | 3 54 | 11 33 | 2 16 | 2 56 | 18 35 | | n.a. |
| T 22 | 11 31 | 5 34 | 2 10 | 14 37 | 1 46 | 21 27 | 0 14 | 15 51 | 1 5 | 1 36 | 1 10 | 19 6 | 1 15 | 9 13 | 0 44 | 10 28 | 1 52 | 3 54 | 11 32 | 2 14 | 2 55 | 18 35 | | n.a. |
| W23 | 11 10 | 1 15 | 0 59 | 13 51 | 1 41 | 21 16 | 0 17 | 15 36 | 1 5 | 1 31 | 1 10 | 19 7 | 1 15 | 9 12 | 0 44 | 10 28 | 1 52 | 3 54 | 11 32 | 2 13 | 2 54 | 18 35 | | n.a. |
| T 24 | 10 49 | 3s 1 | 0n14 | 13 4 | 1 36 | 21 5 | 0 20 | 15 20 | 1 5 | 1 25 | 1 10 | 19 7 | 1 15 | 9 11 | 0 44 | 10 29 | 1 52 | 3 55 | 11 32 | 2 13 | 2 52 | 18 35 | | n.a. |
| F 25 | 10 27 | 7 1 | 1 24 | 12 15 | 1 29 | 20 52 | 0 23 | 15 5 | 1 5 | 1 20 | 1 10 | 19 8 | 1 15 | 9 9 | 0 44 | 10 29 | 1 52 | 3 55 | 11 32 | 2 13 | 2 51 | 18 35 | | n.a. |
| S 26 | 10 5 | 10 35 | 2 28 | 11 25 | 1 23 | 20 40 | 0 26 | 14 49 | 1 4 | 1 14 | 1 10 | 19 9 | 1 14 | 9 8 | 0 44 | 10 30 | 1 52 | 3 56 | 11 31 | 2 14 | 2 50 | 18 35 | | n.a. |
| S 27 | 9 43 | 13 35 | 3 24 | 10 34 | 1 16 | 20 26 | 0 29 | 14 33 | 1 4 | 1 9 | 1 10 | 19 10 | 1 14 | 9 7 | 0 44 | 10 30 | 1 52 | 3 56 | 11 31 | 2 15 | 2 49 | 18 35 | | n.a. |
| M28 | 9 21 | 15 56 | 4 9 | 9 40 | 1 8 | 20 12 | 0 32 | 14 17 | 1 4 | 1 3 | 1 10 | 19 10 | 1 14 | 9 6 | 0 44 | 10 31 | 1 52 | 3 57 | 11 31 | 2 15 | 2 47 | 18 35 | | n.a. |
| T 29 | 8s59 | 17s33 | 4n43 | 8s46 | 0s59 | 19s58 | 0s34 | 14s 1 | 1s 4 | 0s57 | 1s 9 | 19n11 | 1s14 | 9s 4 | 0s44 | 10n31 | 1s52 | 3n57 | 11s31 | 2s15 | 2s46 | 18s35 | | n.a. |

Julian Day Number = 1688946.5, Delta T = 03h11m30s
Ecliptic obliquity = 23°42'12, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°17'33, Lahiri = - 5°10'32 Julian Calendar 1 Feb. 89 BCE == Greg. Calendar 30 Jan. 089 BCE

The year -88 astronomical counting style corresponds to year 089 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 89 BCE
# geocentric

## MARCH 89 BCE (-88) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 10 24 26 | 8♓ 6'55 | 22♐ 1 | 12♓11 | 5♒27 | 26♒41 | 0♈29 | 0♊ 7 | 8♓46 | 1♉56 | 9♉42 | 5°R36 | 6♎51 | 26♐ 1 | n.a. | W 1 |
| T 2 | 10 28 23 | 9° 6'03 | 3♑54 | 14°14 | 6°40 | 27°28 | 0°43 | 0°10 | 8°50 | 1°58 | 9°43 | 5♎34 | 6°48 | 26° 8 | n.a. | T 2 |
| F 3 | 10 32 19 | 10° 5'08 | 15°51 | 16°17 | 7°52 | 28°14 | 0°57 | 0°14 | 8°53 | 1°59 | 9°44 | 5°31 | 6°44 | 26°15 | n.a. | F 3 |
| S 4 | 10 36 16 | 11° 4'12 | 27°56 | 18°21 | 9° 5 | 29° 1 | 1°11 | 0°17 | 8°57 | 2° 1 | 9°44 | 5°27 | 6°41 | 26°22 | n.a. | S 4 |
| S 5 | 10 40 12 | 12° 3'14 | 10♒13 | 20°23 | 10°17 | 29°47 | 1°25 | 0°20 | 9° 0 | 2° 3 | 9°45 | 5°23 | 6°38 | 26°28 | n.a. | S 5 |
| M 6 | 10 44 9 | 13° 2'14 | 22°43 | 22°25 | 11°30 | 0♓34 | 1°38 | 0°24 | 9° 3 | 2° 4 | 9°46 | 5°19 | 6°35 | 26°35 | n.a. | M 6 |
| T 7 | 10 48 6 | 14° 1'11 | 5♓27 | 24°26 | 12°43 | 1°20 | 1°52 | 0°27 | 9° 7 | 2° 6 | 9°47 | 5°16 | 6°32 | 26°42 | n.a. | T 7 |
| W 8 | 10 52 2 | 15° 0'07 | 18°26 | 26°25 | 13°55 | 2° 6 | 2° 6 | 0°31 | 9°10 | 2° 7 | 9°48 | 5°15 | 6°29 | 26°48 | n.a. | W 8 |
| T 9 | 10 55 59 | 15°59'00 | 1♈40 | 28°23 | 15° 8 | 2°52 | 2°20 | 0°35 | 9°14 | 2° 9 | 9°49 | 5°D14 | 6°25 | 26°55 | n.a. | T 9 |
| F 10 | 10 59 55 | 16°57'52 | 15° 6 | 0♈18 | 16°21 | 3°39 | 2°34 | 0°39 | 9°17 | 2°11 | 9°49 | 5°14 | 6°22 | 27° 2 | n.a. | F 10 |
| S 11 | 11 3 52 | 17°56'41 | 28°45 | 2°11 | 17°33 | 4°25 | 2°49 | 0°43 | 9°20 | 2°12 | 9°50 | 5°15 | 6°19 | 27° 9 | n.a. | S 11 |
| S 12 | 11 7 48 | 18°55'28 | 12♉35 | 4° 1 | 18°46 | 5°11 | 3° 3 | 0°47 | 9°24 | 2°14 | 9°51 | 5°16 | 6°16 | 27°15 | n.a. | S 12 |
| M13 | 11 11 45 | 19°54'12 | 26°34 | 5°47 | 19°59 | 5°57 | 3°17 | 0°51 | 9°27 | 2°16 | 9°52 | 5°17 | 6°13 | 27°22 | n.a. | M13 |
| T 14 | 11 15 41 | 20°52'54 | 10♊40 | 7°30 | 21°11 | 6°43 | 3°31 | 0°55 | 9°31 | 2°18 | 9°53 | 5°18 | 6° 9 | 27°29 | n.a. | T 14 |
| W15 | 11 19 38 | 21°51'34 | 24°51 | 9° 9 | 22°24 | 7°29 | 3°45 | 0°59 | 9°34 | 2°19 | 9°54 | 5°R18 | 6° 6 | 27°35 | n.a. | W15 |
| T 16 | 11 23 34 | 22°50'12 | 9♋ 6 | 10°44 | 23°37 | 8°15 | 3°59 | 1° 4 | 9°37 | 2°21 | 9°55 | 5°18 | 6° 3 | 27°42 | n.a. | T 16 |
| F 17 | 11 27 31 | 23°48'47 | 23°22 | 12°15 | 24°49 | 9° 1 | 4°13 | 1° 8 | 9°41 | 2°23 | 9°56 | 5°17 | 6° 0 | 27°49 | n.a. | F 17 |
| S 18 | 11 31 28 | 24°47'20 | 7♌35 | 13°41 | 26° 2 | 9°47 | 4°28 | 1°13 | 9°44 | 2°25 | 9°57 | 5°16 | 5°57 | 27°56 | n.a. | S 18 |
| S 19 | 11 35 24 | 25°45'51 | 21°42 | 15° 2 | 27°15 | 10°33 | 4°42 | 1°17 | 9°47 | 2°27 | 9°58 | 5°14 | 5°54 | 28° 2 | n.a. | S 19 |
| M20 | 11 39 21 | 26°44'19 | 5♍39 | 16°18 | 28°28 | 11°18 | 4°56 | 1°22 | 9°51 | 2°29 | 9°59 | 5°13 | 5°50 | 28° 9 | n.a. | M20 |
| T 21 | 11 43 17 | 27°42'45 | 19°24 | 17°29 | 29°40 | 12° 4 | 5°10 | 1°27 | 9°54 | 2°31 | 10° 0 | 5°13 | 5°47 | 28°16 | n.a. | T 21 |
| W22 | 11 47 14 | 28°41'10 | 2♎53 | 18°35 | 0♓53 | 12°50 | 5°24 | 1°32 | 9°57 | 2°33 | 10° 1 | 5°D12 | 5°44 | 28°23 | n.a. | W22 |
| T 23 | 11 51 10 | 29°39'32 | 16° 4 | 19°36 | 2° 6 | 13°35 | 5°39 | 1°37 | 10° 1 | 2°34 | 10° 2 | 5°13 | 5°41 | 28°29 | n.a. | T 23 |
| F 24 | 11 55 7 | 0♈37'52 | 28°57 | 20°31 | 3°19 | 14°21 | 5°53 | 1°42 | 10° 4 | 2°36 | 10° 3 | 5°13 | 5°38 | 28°36 | n.a. | F 24 |
| S 25 | 11 59 3 | 1°36'11 | 11♏33 | 21°21 | 4°31 | 15° 6 | 6° 7 | 1°47 | 10° 7 | 2°38 | 10° 4 | 5°13 | 5°34 | 28°43 | n.a. | S 25 |
| S 26 | 12 3 0 | 2°34'28 | 23°54 | 22° 6 | 5°44 | 15°52 | 6°21 | 1°52 | 10°10 | 2°40 | 10° 6 | 5°14 | 5°31 | 28°49 | n.a. | S 26 |
| M27 | 12 6 56 | 3°32'43 | 6♐ 2 | 22°44 | 6°57 | 16°37 | 6°36 | 1°57 | 10°14 | 2°42 | 10° 7 | 5°14 | 5°28 | 28°56 | n.a. | M27 |
| T 28 | 12 10 53 | 4°30'57 | 18° 1 | 23°18 | 8°10 | 17°23 | 6°50 | 2° 3 | 10°17 | 2°44 | 10° 8 | 5°14 | 5°25 | 29° 3 | n.a. | T 28 |
| W29 | 12 14 50 | 5°29'09 | 29°55 | 23°45 | 9°23 | 18° 8 | 7° 4 | 2° 8 | 10°20 | 2°46 | 10° 9 | 5°14 | 5°22 | 29°10 | n.a. | W29 |
| T 30 | 12 18 46 | 6°27'20 | 11♑48 | 24° 7 | 10°36 | 18°54 | 7°19 | 2°14 | 10°23 | 2°48 | 10°10 | 5°14 | 5°19 | 29°16 | n.a. | T 30 |
| F 31 | 12 22 43 | 7♈25'29 | 23♑46 | 24♈23 | 11♓48 | 19♓39 | 7♈33 | 2♊19 | 10♓26 | 2♉51 | 10♉11 | 5♎14 | 5♎15 | 29♐23 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| W 1 | 8s37 | 18s23 | 5n 5 | 7s51 | 0s51 | 19s43 | 0s37 | 13s45 | 1s 4 | 0s52 | 1s 9 | 19n12 | 1s14 | 9s 3 | 0s44 | 10n32 | 1s52 | 3n57 | 11s30 | 2s15 | 2s45 | 18s35 | | | n.a. |
| T 2 | 8 15 | 18 26 | 5 13 | 6 54 | 0 41 | 19 27 | 0 40 | 13 29 | 1 4 | 0 46 | 1 9 | 19 13 | 1 13 | 9 2 | 0 44 | 10 33 | 1 52 | 3 58 | 11 30 | 2 14 | 2 44 | 18 35 | | | n.a. |
| F 3 | 7 52 | 17 39 | 5 8 | 5 57 | 0 31 | 19 11 | 0 43 | 13 12 | 1 4 | 0 41 | 1 9 | 19 14 | 1 13 | 9 0 | 0 44 | 10 33 | 1 52 | 3 58 | 11 30 | 2 13 | 2 42 | 18 36 | | | n.a. |
| S 4 | 7 30 | 16 4 | 4 50 | 4 59 | 0 21 | 18 54 | 0 45 | 12 56 | 1 3 | 0 35 | 1 9 | 19 15 | 1 13 | 8 59 | 0 44 | 10 34 | 1 52 | 3 59 | 11 30 | 2 11 | 2 41 | 18 36 | | | n.a. |
| S 5 | 7 7 | 13 44 | 4 18 | 4 0 | 0 10 | 18 37 | 0 48 | 12 39 | 1 3 | 0 29 | 1 9 | 19 16 | 1 13 | 8 58 | 0 44 | 10 34 | 1 51 | 3 59 | 11 29 | 2 10 | 2 40 | 18 36 | | | n.a. |
| M 6 | 6 44 | 10 45 | 3 33 | 3 2 | 0n 1 | 18 19 | 0 50 | 12 23 | 1 3 | 0 23 | 1 9 | 19 17 | 1 12 | 8 56 | 0 44 | 10 35 | 1 51 | 4 0 | 11 29 | 2 8 | 2 38 | 18 36 | | | n.a. |
| T 7 | 6 21 | 7 11 | 2 37 | 2 3 | 0 12 | 18 1 | 0 53 | 12 6 | 1 3 | 0 18 | 1 9 | 19 18 | 1 12 | 8 55 | 0 44 | 10 36 | 1 51 | 4 0 | 11 29 | 2 7 | 2 37 | 18 36 | | | n.a. |
| W 8 | 5 58 | 3 14 | 1 31 | 1 5 | 0 24 | 17 42 | 0 55 | 11 49 | 1 3 | 0 12 | 1 9 | 19 19 | 1 12 | 8 54 | 0 44 | 10 36 | 1 51 | 4 1 | 11 29 | 2 6 | 2 36 | 18 36 | | | n.a. |
| T 9 | 5 35 | 0n58 | 0 20 | 0 7 | 0 35 | 17 23 | 0 57 | 11 32 | 1 2 | 0 6 | 1 9 | 19 20 | 1 12 | 8 52 | 0 44 | 10 37 | 1 51 | 4 1 | 11 28 | 2 6 | 2 35 | 18 36 | | | n.a. |
| F 10 | 5 12 | 5 11 | 0s54 | 0n50 | 0 47 | 17 3 | 0 59 | 11 15 | 1 2 | 0 1 | 1 9 | 19 21 | 1 12 | 8 51 | 0 44 | 10 37 | 1 51 | 4 2 | 11 28 | 2 6 | 2 33 | 18 36 | | | n.a. |
| S 11 | 4 49 | 9 11 | 2 6 | 1 46 | 0 59 | 16 43 | 1 2 | 10 58 | 1 2 | 0n 5 | 1 8 | 19 22 | 1 11 | 8 50 | 0 44 | 10 38 | 1 51 | 4 2 | 11 28 | 2 6 | 2 32 | 18 36 | | | n.a. |
| S 12 | 4 26 | 12 44 | 3 12 | 2 41 | 1 10 | 16 22 | 1 4 | 10 40 | 1 2 | 0 11 | 1 8 | 19 23 | 1 11 | 8 49 | 0 44 | 10 39 | 1 51 | 4 3 | 11 28 | 2 7 | 2 31 | 18 36 | | | n.a. |
| M13 | 4 2 | 15 36 | 4 7 | 3 34 | 1 22 | 16 1 | 1 6 | 10 23 | 1 2 | 0 16 | 1 8 | 19 24 | 1 11 | 8 47 | 0 44 | 10 39 | 1 51 | 4 3 | 11 27 | 2 7 | 2 30 | 18 36 | | | n.a. |
| T 14 | 3 39 | 17 33 | 4 48 | 4 26 | 1 33 | 15 40 | 1 8 | 10 5 | 1 1 | 0 22 | 1 8 | 19 25 | 1 11 | 8 46 | 0 44 | 10 40 | 1 51 | 4 4 | 11 27 | 2 8 | 2 28 | 18 36 | | | n.a. |
| W15 | 3 16 | 18 25 | 5 11 | 5 15 | 1 44 | 15 18 | 1 10 | 9 48 | 1 1 | 0 28 | 1 8 | 19 26 | 1 11 | 8 45 | 0 44 | 10 41 | 1 51 | 4 4 | 11 27 | 2 8 | 2 27 | 18 36 | | | n.a. |
| T 16 | 2 52 | 18 8 | 5 16 | 6 3 | 1 54 | 14 55 | 1 11 | 9 30 | 1 1 | 0 34 | 1 8 | 19 27 | 1 10 | 8 44 | 0 44 | 10 41 | 1 51 | 4 5 | 11 27 | 2 8 | 2 26 | 18 36 | | | n.a. |
| F 17 | 2 29 | 16 43 | 5 1 | 6 48 | 2 4 | 14 32 | 1 13 | 9 13 | 1 1 | 0 39 | 1 8 | 19 28 | 1 10 | 8 42 | 0 44 | 10 42 | 1 51 | 4 5 | 11 27 | 2 7 | 2 24 | 18 36 | | | n.a. |
| S 18 | 2 6 | 14 16 | 4 27 | 7 30 | 2 13 | 14 9 | 1 15 | 8 55 | 1 0 | 0 45 | 1 8 | 19 29 | 1 10 | 8 41 | 0 44 | 10 43 | 1 51 | 4 6 | 11 26 | 2 7 | 2 23 | 18 36 | | | n.a. |
| S 19 | 1 42 | 10 59 | 3 38 | 8 10 | 2 22 | 13 46 | 1 17 | 8 37 | 1 0 | 0 51 | 1 8 | 19 30 | 1 10 | 8 40 | 0 44 | 10 43 | 1 51 | 4 6 | 11 26 | 2 6 | 2 22 | 18 36 | | | n.a. |
| M20 | 1 19 | 7 7 | 2 36 | 8 47 | 2 30 | 13 22 | 1 18 | 8 19 | 1 0 | 0 57 | 1 8 | 19 32 | 1 10 | 8 38 | 0 44 | 10 44 | 1 51 | 4 7 | 11 26 | 2 6 | 2 21 | 18 35 | | | n.a. |
| T 21 | 0 55 | 2 55 | 1 27 | 9 21 | 2 37 | 12 57 | 1 20 | 8 1 | 0 59 | 1 2 | 1 8 | 19 33 | 1 9 | 8 37 | 0 44 | 10 45 | 1 51 | 4 7 | 11 26 | 2 6 | 2 19 | 18 35 | | | n.a. |
| W22 | 0 32 | 1s21 | 0 13 | 9 53 | 2 44 | 12 33 | 1 21 | 7 44 | 0 59 | 1 8 | 1 8 | 19 34 | 1 9 | 8 36 | 0 44 | 10 45 | 1 51 | 4 8 | 11 26 | 2 5 | 2 18 | 18 35 | | | n.a. |
| T 23 | 0 8 | 5 28 | 1n 0 | 10 21 | 2 49 | 12 7 | 1 23 | 7 26 | 0 59 | 1 14 | 1 8 | 19 35 | 1 9 | 8 35 | 0 44 | 10 46 | 1 51 | 4 8 | 11 25 | 2 6 | 2 17 | 18 35 | | | n.a. |
| F 24 | 0n15 | 9 14 | 2 8 | 10 47 | 2 54 | 11 42 | 1 24 | 7 8 | 0 59 | 1 20 | 1 8 | 19 36 | 1 9 | 8 33 | 0 44 | 10 47 | 1 51 | 4 9 | 11 25 | 2 6 | 2 16 | 18 35 | | | n.a. |
| S 25 | 0 39 | 12 29 | 3 8 | 11 9 | 2 57 | 11 16 | 1 25 | 6 49 | 0 58 | 1 25 | 1 8 | 19 38 | 1 9 | 8 32 | 0 44 | 10 48 | 1 51 | 4 9 | 11 25 | 2 6 | 2 14 | 18 35 | | | n.a. |
| S 26 | 1 2 | 15 6 | 3 58 | 11 28 | 3 0 | 10 50 | 1 26 | 6 31 | 0 58 | 1 31 | 1 7 | 19 39 | 1 8 | 8 31 | 0 44 | 10 48 | 1 51 | 4 10 | 11 25 | 2 6 | 2 13 | 18 35 | | | n.a. |
| M27 | 1 25 | 17 0 | 4 37 | 11 44 | 3 1 | 10 24 | 1 27 | 6 13 | 0 58 | 1 37 | 1 7 | 19 40 | 1 8 | 8 30 | 0 44 | 10 49 | 1 51 | 4 10 | 11 25 | 2 6 | 2 12 | 18 35 | | | n.a. |
| T 28 | 1 49 | 18 8 | 5 3 | 11 57 | 3 2 | 9 58 | 1 28 | 5 55 | 0 57 | 1 43 | 1 7 | 19 41 | 1 8 | 8 29 | 0 44 | 10 50 | 1 50 | 4 11 | 11 24 | 2 6 | 2 10 | 18 35 | | | n.a. |
| W29 | 2 12 | 18 26 | 5 16 | 12 7 | 3 1 | 9 31 | 1 29 | 5 37 | 0 57 | 1 48 | 1 7 | 19 43 | 1 8 | 8 27 | 0 44 | 10 50 | 1 50 | 4 11 | 11 24 | 2 6 | 2 9 | 18 35 | | | n.a. |
| T 30 | 2 35 | 17 57 | 5 15 | 12 13 | 2 59 | 9 4 | 1 30 | 5 19 | 0 57 | 1 54 | 1 7 | 19 44 | 1 8 | 8 26 | 0 44 | 10 51 | 1 50 | 4 12 | 11 24 | 2 6 | 2 8 | 18 35 | | | n.a. |
| F 31 | 2n59 | 16s39 | 5n 1 | 12n16 | 2n56 | 8s36 | 1s31 | 5s 0 | 0s56 | 2n 0 | 1s 7 | 19n45 | 1s 8 | 8s25 | 0s44 | 10n52 | 1s50 | 4n12 | 11s24 | 2s 6 | 2s 7 | 18s35 | | | n.a. |

Julian Day Number = 1688975.5, Delta T = 03h11m29s
Ecliptic obliquity = 23°42'12, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°17'29, Lahiri = - 5°10'28 Julian Calendar 1 March 89 BCE == Greg. Calendar 28 Feb. 089 BCE

The year -88 astronomical counting style corresponds to year 089 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 89 BCE
# geocentric

## APRIL 89 BCE (-88) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 26 39 | 8♈23'36 | 5♒53 | 24♈34 | 13♓ 1 | 20♓24 | 7♈47 | 2♊25 | 10♓29 | 2♉53 | 10♉13 | 5♎14 | 5♎12 | 29♐30 | n.a. | S 1 |
| S 2 | 12 30 36 | 9°21'42 | 18°13 | 24°R39 | 14°14 | 21° 9 | 8° 1 | 2°30 | 10°33 | 2°55 | 10°14 | 5°15 | 5° 9 | 29°36 | n.a. | S 2 |
| M 3 | 12 34 32 | 10°19'46 | 0♓48 | 24°39 | 15°27 | 21°54 | 8°16 | 2°36 | 10°36 | 2°57 | 10°15 | 5°15 | 5° 6 | 29°43 | n.a. | M 3 |
| T 4 | 12 38 29 | 11°17'49 | 13°43 | 24°34 | 16°40 | 22°39 | 8°30 | 2°42 | 10°39 | 2°59 | 10°16 | 5°16 | 5° 3 | 29°50 | n.a. | T 4 |
| W 5 | 12 42 25 | 12°15'50 | 26°57 | 24°24 | 17°53 | 23°25 | 8°44 | 2°48 | 10°42 | 3° 1 | 10°17 | 5°16 | 5° 0 | 29°57 | n.a. | W 5 |
| T 6 | 12 46 22 | 13°13'50 | 10♈31 | 24° 9 | 19° 6 | 24°10 | 8°58 | 2°54 | 10°45 | 3° 3 | 10°19 | 5°R16 | 4°56 | 0♑ 3 | n.a. | T 6 |
| F 7 | 12 50 19 | 14°11'47 | 24°23 | 23°50 | 20°19 | 24°54 | 9°13 | 3° 0 | 10°48 | 3° 5 | 10°20 | 5°16 | 4°53 | 0°10 | n.a. | F 7 |
| S 8 | 12 54 15 | 15° 9'44 | 8♉29 | 23°26 | 21°32 | 25°39 | 9°27 | 3° 6 | 10°51 | 3° 7 | 10°21 | 5°15 | 4°50 | 0°17 | n.a. | S 8 |
| S 9 | 12 58 12 | 16° 7'38 | 22°46 | 23° 0 | 22°45 | 26°24 | 9°41 | 3°12 | 10°54 | 3°10 | 10°22 | 5°14 | 4°47 | 0°24 | n.a. | S 9 |
| M10 | 13 2 8 | 17° 5'31 | 7♊ 9 | 22°30 | 23°57 | 27° 9 | 9°55 | 3°18 | 10°57 | 3°12 | 10°24 | 5°12 | 4°44 | 0°30 | n.a. | M10 |
| T 11 | 13 6 5 | 18° 3'21 | 21°33 | 21°58 | 25°10 | 27°54 | 10° 9 | 3°25 | 11° 0 | 3°14 | 10°25 | 5°11 | 4°40 | 0°37 | n.a. | T 11 |
| W12 | 13 10 1 | 19° 1'10 | 5♋54 | 21°24 | 26°23 | 28°38 | 10°24 | 3°31 | 11° 2 | 3°16 | 10°26 | 5°10 | 4°37 | 0°44 | n.a. | W12 |
| T 13 | 13 13 58 | 19°58'58 | 20° 9 | 20°49 | 27°36 | 29°23 | 10°38 | 3°37 | 11° 5 | 3°18 | 10°27 | 5°D10 | 4°34 | 0°50 | n.a. | T 13 |
| F 14 | 13 17 54 | 20°56'43 | 4♌14 | 20°13 | 28°49 | 0♈ 8 | 10°52 | 3°44 | 11° 8 | 3°21 | 10°29 | 5°10 | 4°31 | 0°57 | n.a. | F 14 |
| S 15 | 13 21 51 | 21°54'26 | 18° 9 | 19°37 | 0♈ 2 | 0°52 | 11° 6 | 3°50 | 11°11 | 3°23 | 10°30 | 5°11 | 4°28 | 1° 4 | n.a. | S 15 |
| S 16 | 13 25 48 | 22°52'08 | 1♍52 | 19° 2 | 1°15 | 1°36 | 11°20 | 3°57 | 11°14 | 3°25 | 10°31 | 5°12 | 4°25 | 1°11 | n.a. | S 16 |
| M17 | 13 29 44 | 23°49'48 | 15°22 | 18°27 | 2°28 | 2°21 | 11°34 | 4° 4 | 11°16 | 3°27 | 10°33 | 5°14 | 4°21 | 1°17 | n.a. | M17 |
| T 18 | 13 33 41 | 24°47'26 | 28°40 | 17°55 | 3°41 | 3° 5 | 11°48 | 4°10 | 11°19 | 3°29 | 10°34 | 5°R14 | 4°18 | 1°24 | n.a. | T 18 |
| W19 | 13 37 37 | 25°45'03 | 11♎45 | 17°25 | 4°54 | 3°50 | 12° 2 | 4°17 | 11°22 | 3°32 | 10°35 | 5°14 | 4°15 | 1°31 | n.a. | W19 |
| T 20 | 13 41 34 | 26°42'38 | 24°37 | 16°58 | 6° 7 | 4°34 | 12°16 | 4°24 | 11°24 | 3°34 | 10°37 | 5°13 | 4°12 | 1°38 | n.a. | T 20 |
| F 21 | 13 45 30 | 27°40'12 | 7♏16 | 16°34 | 7°20 | 5°18 | 12°30 | 4°30 | 11°27 | 3°36 | 10°38 | 5°11 | 4° 9 | 1°44 | n.a. | F 21 |
| S 22 | 13 49 27 | 28°37'45 | 19°43 | 16°14 | 8°33 | 6° 2 | 12°44 | 4°37 | 11°30 | 3°38 | 10°39 | 5° 8 | 4° 5 | 1°51 | n.a. | S 22 |
| S 23 | 13 53 23 | 29°35'17 | 1♐58 | 15°57 | 9°46 | 6°46 | 12°58 | 4°44 | 11°32 | 3°41 | 10°41 | 5° 4 | 4° 2 | 1°58 | n.a. | S 23 |
| M24 | 13 57 20 | 0♑32'47 | 14° 3 | 15°45 | 10°59 | 7°30 | 13°12 | 4°51 | 11°35 | 3°43 | 10°42 | 5° 0 | 3°59 | 2° 4 | n.a. | M24 |
| T 25 | 14 1 17 | 1°30'17 | 26° 1 | 15°37 | 12°12 | 8°14 | 13°26 | 4°58 | 11°37 | 3°45 | 10°43 | 4°56 | 3°56 | 2°11 | n.a. | T 25 |
| W26 | 14 5 13 | 2°27'46 | 7♑54 | 15°D33 | 13°25 | 8°58 | 13°40 | 5° 5 | 11°40 | 3°47 | 10°45 | 4°53 | 3°53 | 2°18 | n.a. | W26 |
| T 27 | 14 9 10 | 3°25'13 | 19°47 | 15°34 | 14°38 | 9°42 | 13°54 | 5°12 | 11°42 | 3°50 | 10°46 | 4°51 | 3°50 | 2°25 | n.a. | T 27 |
| F 28 | 14 13 6 | 4°22'40 | 1♒44 | 15°39 | 15°51 | 10°26 | 14° 8 | 5°19 | 11°44 | 3°52 | 10°48 | 4°D50 | 3°46 | 2°31 | n.a. | F 28 |
| S 29 | 14 17 3 | 5°20'06 | 13°50 | 15°48 | 17° 4 | 11° 9 | 14°21 | 5°27 | 11°47 | 3°54 | 10°49 | 4°50 | 3°43 | 2°38 | n.a. | S 29 |
| S 30 | 14 20 59 | 6♉17'31 | 26♒ 8 | 16♈ 3 | 18♈17 | 11♈53 | 14♈35 | 5♊34 | 11♓49 | 3♉56 | 10♉50 | 4♎51 | 3♎40 | 2♑45 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 3n22 | 14s36 | 4n33 | 12n16 | 2n51 | 8s 9 | 1s32 | 4s42 | 0s56 | 2n 6 | 1s 7 | 19n46 | 1s 7 | 8s24 | 0s44 | 10n53 | 1s50 | 4n13 | 11s24 | 2s 6 | 2s 5 | 18s35 | | n.a. |
| S 2 | 3 45 | 11 51 | 3 52 | 12 13 | 2 45 | 7 41 | 1 32 | 4 24 | 0 56 | 2 11 | 1 7 | 19 48 | 1 7 | 8 23 | 0 44 | 10 53 | 1 50 | 4 13 | 11 24 | 2 6 | 2 4 | 18 35 | | n.a. |
| M 3 | 4 8 | 8 31 | 3 0 | 12 6 | 2 38 | 7 13 | 1 33 | 4 5 | 0 55 | 2 17 | 1 7 | 19 49 | 1 7 | 8 21 | 0 44 | 10 54 | 1 50 | 4 14 | 11 23 | 2 7 | 2 3 | 18 35 | | n.a. |
| T 4 | 4 31 | 4 41 | 1 57 | 11 56 | 2 30 | 6 45 | 1 33 | 3 47 | 0 55 | 2 23 | 1 7 | 19 50 | 1 7 | 8 20 | 0 44 | 10 55 | 1 50 | 4 14 | 11 23 | 2 7 | 2 2 | 18 35 | | n.a. |
| W 5 | 4 54 | 0 31 | 0 46 | 11 44 | 2 20 | 6 17 | 1 34 | 3 29 | 0 55 | 2 28 | 1 7 | 19 52 | 1 7 | 8 19 | 0 44 | 10 56 | 1 50 | 4 15 | 11 23 | 2 7 | 2 0 | 18 35 | | n.a. |
| T 6 | 5 17 | 3n46 | 0s29 | 11 28 | 2 10 | 5 48 | 1 34 | 3 10 | 0 54 | 2 34 | 1 7 | 19 53 | 1 6 | 8 18 | 0 44 | 10 56 | 1 50 | 4 15 | 11 23 | 2 7 | 1 59 | 18 35 | | n.a. |
| F 7 | 5 39 | 7 57 | 1 44 | 11 10 | 1 58 | 5 19 | 1 34 | 2 52 | 0 54 | 2 40 | 1 7 | 19 54 | 1 6 | 8 17 | 0 44 | 10 57 | 1 50 | 4 16 | 11 23 | 2 7 | 1 58 | 18 35 | | n.a. |
| S 8 | 6 2 | 11 45 | 2 54 | 10 49 | 1 45 | 4 51 | 1 35 | 2 34 | 0 53 | 2 45 | 1 7 | 19 56 | 1 6 | 8 16 | 0 44 | 10 58 | 1 50 | 4 17 | 11 23 | 2 6 | 1 56 | 18 34 | | n.a. |
| S 9 | 6 25 | 14 54 | 3 54 | 10 27 | 1 31 | 4 22 | 1 35 | 2 15 | 0 53 | 2 51 | 1 7 | 19 57 | 1 6 | 8 15 | 0 44 | 10 59 | 1 50 | 4 17 | 11 23 | 2 6 | 1 55 | 18 34 | | n.a. |
| M10 | 6 47 | 17 9 | 4 39 | 10 2 | 1 16 | 3 53 | 1 35 | 1 57 | 0 53 | 2 57 | 1 7 | 19 58 | 1 6 | 8 14 | 0 44 | 10 59 | 1 50 | 4 18 | 11 22 | 2 5 | 1 54 | 18 34 | | n.a. |
| T 11 | 7 9 | 18 19 | 5 7 | 9 35 | 1 1 | 3 23 | 1 35 | 1 39 | 0 52 | 3 2 | 1 7 | 20 0 | 1 6 | 8 12 | 0 44 | 11 0 | 1 50 | 4 18 | 11 22 | 2 5 | 1 53 | 18 34 | | n.a. |
| W12 | 7 32 | 18 18 | 5 16 | 9 7 | 0 44 | 2 54 | 1 35 | 1 20 | 0 52 | 3 8 | 1 7 | 20 1 | 1 5 | 8 11 | 0 44 | 11 1 | 1 50 | 4 19 | 11 22 | 2 5 | 1 51 | 18 34 | | n.a. |
| T 13 | 7 54 | 17 8 | 5 5 | 8 38 | 0 28 | 2 25 | 1 35 | 1 2 | 0 51 | 3 14 | 1 7 | 20 2 | 1 5 | 8 10 | 0 44 | 11 2 | 1 50 | 4 19 | 11 22 | 2 4 | 1 50 | 18 34 | | n.a. |
| F 14 | 8 16 | 14 56 | 4 36 | 8 9 | 0 11 | 1 55 | 1 35 | 0 44 | 0 51 | 3 19 | 1 7 | 20 4 | 1 5 | 8 9 | 0 44 | 11 3 | 1 50 | 4 20 | 11 22 | 2 5 | 1 49 | 18 34 | | n.a. |
| S 15 | 8 38 | 11 53 | 3 52 | 7 39 | 0s 6 | 1 25 | 1 34 | 0 25 | 0 51 | 3 25 | 1 7 | 20 5 | 1 5 | 8 8 | 0 44 | 11 3 | 1 50 | 4 20 | 11 22 | 2 5 | 1 48 | 18 34 | | n.a. |
| S 16 | 8 59 | 8 13 | 2 54 | 7 10 | 0 23 | 0 56 | 1 34 | 0 7 | 0 50 | 3 30 | 1 7 | 20 7 | 1 5 | 8 7 | 0 45 | 11 4 | 1 50 | 4 21 | 11 22 | 2 5 | 1 46 | 18 34 | | n.a. |
| M17 | 9 21 | 4 11 | 1 47 | 6 41 | 0 40 | 0 26 | 1 34 | 0n11 | 0 50 | 3 36 | 1 7 | 20 8 | 1 5 | 8 6 | 0 45 | 11 5 | 1 50 | 4 21 | 11 22 | 2 6 | 1 45 | 18 34 | | n.a. |
| T 18 | 9 42 | 0s 1 | 0 36 | 6 14 | 0 57 | 0n 4 | 1 33 | 0 29 | 0 49 | 3 42 | 1 7 | 20 9 | 1 5 | 8 5 | 0 45 | 11 6 | 1 50 | 4 22 | 11 21 | 2 6 | 1 44 | 18 33 | | n.a. |
| W19 | 10 3 | 4 9 | 0n36 | 5 47 | 1 13 | 0 33 | 1 33 | 0 47 | 0 49 | 3 47 | 1 7 | 20 11 | 1 4 | 8 4 | 0 45 | 11 6 | 1 50 | 4 22 | 11 21 | 2 6 | 1 42 | 18 33 | | n.a. |
| T 20 | 10 25 | 8 1 | 1 45 | 5 22 | 1 29 | 1 3 | 1 32 | 1 6 | 0 48 | 3 53 | 1 7 | 20 12 | 1 4 | 8 3 | 0 45 | 11 7 | 1 50 | 4 23 | 11 21 | 2 6 | 1 41 | 18 33 | | n.a. |
| F 21 | 10 46 | 11 27 | 2 47 | 4 59 | 1 44 | 1 33 | 1 31 | 1 24 | 0 48 | 3 58 | 1 7 | 20 14 | 1 4 | 8 2 | 0 45 | 11 8 | 1 50 | 4 23 | 11 21 | 2 5 | 1 40 | 18 33 | | n.a. |
| S 22 | 11 6 | 14 19 | 3 41 | 4 38 | 1 58 | 2 3 | 1 31 | 1 42 | 0 47 | 4 4 | 1 7 | 20 15 | 1 4 | 8 1 | 0 45 | 11 9 | 1 50 | 4 24 | 11 21 | 2 4 | 1 39 | 18 33 | | n.a. |
| S 23 | 11 27 | 16 29 | 4 23 | 4 20 | 2 11 | 2 32 | 1 30 | 2 0 | 0 47 | 4 9 | 1 7 | 20 16 | 1 4 | 8 0 | 0 45 | 11 9 | 1 50 | 4 24 | 11 21 | 2 2 | 1 37 | 18 33 | | n.a. |
| M24 | 11 47 | 17 54 | 4 53 | 4 3 | 2 24 | 3 2 | 1 29 | 2 18 | 0 47 | 4 15 | 1 7 | 20 18 | 1 4 | 7 59 | 0 45 | 11 10 | 1 50 | 4 24 | 11 21 | 2 1 | 1 36 | 18 33 | | n.a. |
| T 25 | 12 8 | 18 29 | 5 9 | 3 50 | 2 35 | 3 32 | 1 28 | 2 36 | 0 46 | 4 20 | 1 7 | 20 19 | 1 3 | 7 58 | 0 45 | 11 11 | 1 50 | 4 25 | 11 21 | 1 59 | 1 35 | 18 33 | | n.a. |
| W26 | 12 28 | 18 16 | 5 13 | 3 39 | 2 45 | 4 1 | 1 27 | 2 54 | 0 46 | 4 25 | 1 7 | 20 21 | 1 3 | 7 57 | 0 45 | 11 12 | 1 50 | 4 25 | 11 21 | 1 58 | 1 34 | 18 32 | | n.a. |
| T 27 | 12 48 | 17 14 | 5 3 | 3 30 | 2 55 | 4 31 | 1 26 | 3 12 | 0 45 | 4 31 | 1 7 | 20 22 | 1 3 | 7 56 | 0 45 | 11 13 | 1 50 | 4 26 | 11 21 | 1 57 | 1 32 | 18 32 | | n.a. |
| F 28 | 13 7 | 15 27 | 4 39 | 3 25 | 3 3 | 5 0 | 1 25 | 3 29 | 0 45 | 4 36 | 1 7 | 20 23 | 1 3 | 7 56 | 0 45 | 11 13 | 1 50 | 4 26 | 11 21 | 1 56 | 1 31 | 18 32 | | n.a. |
| S 29 | 13 27 | 12 58 | 4 4 | 3 22 | 3 10 | 5 29 | 1 24 | 3 47 | 0 44 | 4 42 | 1 7 | 20 25 | 1 3 | 7 55 | 0 45 | 11 14 | 1 50 | 4 27 | 11 21 | 1 57 | 1 30 | 18 32 | | n.a. |
| S 30 | 13n46 | 9s52 | 3n16 | 3n22 | 3s17 | 5n59 | 1s22 | 4n 5 | 0s44 | 4n47 | 1s 7 | 20n26 | 1s 3 | 7s54 | 0s45 | 11n15 | 1s50 | 4n27 | 11s20 | 1s57 | 1s28 | 18s32 | | n.a. |

Julian Day Number = 1689006.5, Delta T = 03h11m29s
Ecliptic obliquity = 23°42'12, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°17'25, Lahiri = - 5°10'24 Julian Calendar 1 Apr. 89 BCE == Greg. Calendar 30 March 089 BCE


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# ASTRODIENST EPHEMERIS for the year 89 BCE
# geocentric

## MAY 89 BCE (-88) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 14 24 56 | 7♉14'55 | 8♓44 | 16♈21 | 19♈31 | 12♈37 | 14♈49 | 5♊41 | 11♓51 | 3♉59 | 10♉52 | 4♎53 | 3♎37 | 2♑51 | n.a. | M 1 |
| T 2 | 14 28 52 | 8°12'18 | 21°42 | 16°44 | 20°44 | 13°20 | 15° 2 | 5°48 | 11°54 | 4° 1 | 10°53 | 4°55 | 3°34 | 2°58 | n.a. | T 2 |
| W 3 | 14 32 49 | 9° 9'41 | 5♈ 4 | 17°12 | 21°57 | 14° 4 | 15°16 | 5°55 | 11°56 | 4° 3 | 10°54 | 4°R55 | 3°31 | 3° 5 | n.a. | W 3 |
| T 4 | 14 36 45 | 10° 7'03 | 18°50 | 17°43 | 23°10 | 14°47 | 15°30 | 6° 3 | 11°58 | 4° 5 | 10°56 | 4°54 | 3°27 | 3°12 | n.a. | T 4 |
| F 5 | 14 40 42 | 11° 4'23 | 3♉ 0 | 18°19 | 24°23 | 15°31 | 15°43 | 6°10 | 12° 0 | 4° 7 | 10°57 | 4°52 | 3°24 | 3°18 | n.a. | F 5 |
| S 6 | 14 44 39 | 12° 1'44 | 17°30 | 18°59 | 25°36 | 16°14 | 15°57 | 6°18 | 12° 2 | 4°10 | 10°58 | 4°48 | 3°21 | 3°25 | n.a. | S 6 |
| S 7 | 14 48 35 | 12°59'03 | 2♊14 | 19°42 | 26°49 | 16°57 | 16°10 | 6°25 | 12° 4 | 4°12 | 11° 0 | 4°43 | 3°18 | 3°32 | n.a. | S 7 |
| M 8 | 14 52 32 | 13°56'21 | 17° 4 | 20°30 | 28° 2 | 17°41 | 16°24 | 6°32 | 12° 6 | 4°14 | 11° 1 | 4°37 | 3°15 | 3°39 | n.a. | M 8 |
| T 9 | 14 56 28 | 14°53'39 | 1♋52 | 21°21 | 29°16 | 18°24 | 16°37 | 6°40 | 12° 8 | 4°16 | 11° 3 | 4°32 | 3°11 | 3°45 | n.a. | T 9 |
| W10 | 15 0 25 | 15°50'55 | 16°30 | 22°16 | 0♌29 | 19° 7 | 16°50 | 6°47 | 12°10 | 4°19 | 11° 4 | 4°27 | 3° 8 | 3°52 | n.a. | W10 |
| T 11 | 15 4 21 | 16°48'11 | 0♌54 | 23°14 | 1°42 | 19°50 | 17° 3 | 6°55 | 12°12 | 4°21 | 11° 5 | 4°25 | 3° 5 | 3°59 | n.a. | T 11 |
| F 12 | 15 8 18 | 17°45'25 | 15° 0 | 24°16 | 2°55 | 20°33 | 17°17 | 7° 3 | 12°14 | 4°23 | 11° 7 | 4°D23 | 3° 2 | 4° 5 | n.a. | F 12 |
| S 13 | 15 12 15 | 18°42'38 | 28°47 | 25°22 | 4° 8 | 21°16 | 17°30 | 7°10 | 12°16 | 4°25 | 11° 8 | 4°24 | 2°59 | 4°12 | n.a. | S 13 |
| S 14 | 15 16 11 | 19°39'51 | 12♍16 | 26°30 | 5°22 | 21°59 | 17°43 | 7°18 | 12°18 | 4°27 | 11° 9 | 4°25 | 2°56 | 4°19 | n.a. | S 14 |
| M15 | 15 20 8 | 20°37'02 | 25°29 | 27°42 | 6°35 | 22°42 | 17°56 | 7°25 | 12°19 | 4°30 | 11°11 | 4°26 | 2°52 | 4°26 | n.a. | M15 |
| T 16 | 15 24 4 | 21°34'12 | 8♎26 | 28°58 | 7°48 | 23°24 | 18° 9 | 7°33 | 12°21 | 4°32 | 11°12 | 4°R26 | 2°49 | 4°32 | n.a. | T 16 |
| W17 | 15 28 1 | 22°31'22 | 21°10 | 0♏16 | 9° 1 | 24° 7 | 18°22 | 7°41 | 12°23 | 4°34 | 11°14 | 4°25 | 2°46 | 4°39 | n.a. | W17 |
| T 18 | 15 31 57 | 23°28'31 | 3♏43 | 1°38 | 10°15 | 24°50 | 18°35 | 7°48 | 12°24 | 4°36 | 11°15 | 4°21 | 2°43 | 4°46 | n.a. | T 18 |
| F 19 | 15 35 54 | 24°25'40 | 16° 7 | 3° 3 | 11°28 | 25°32 | 18°48 | 7°56 | 12°26 | 4°38 | 11°16 | 4°16 | 2°40 | 4°53 | n.a. | F 19 |
| S 20 | 15 39 50 | 25°22'48 | 28°21 | 4°31 | 12°41 | 26°15 | 19° 0 | 8° 4 | 12°27 | 4°40 | 11°18 | 4° 8 | 2°37 | 4°59 | n.a. | S 20 |
| S 21 | 15 43 47 | 26°19'56 | 10♐28 | 6° 2 | 13°54 | 26°57 | 19°13 | 8°12 | 12°29 | 4°42 | 11°19 | 3°59 | 2°33 | 5° 6 | n.a. | S 21 |
| M22 | 15 47 44 | 27°17'03 | 22°27 | 7°36 | 15° 8 | 27°40 | 19°26 | 8°19 | 12°30 | 4°45 | 11°20 | 3°49 | 2°30 | 5°13 | n.a. | M22 |
| T 23 | 15 51 40 | 28°14'11 | 4♑23 | 9°14 | 16°21 | 28°22 | 19°38 | 8°27 | 12°32 | 4°47 | 11°22 | 3°39 | 2°27 | 5°19 | n.a. | T 23 |
| W24 | 15 55 37 | 29°11'18 | 16°15 | 10°54 | 17°34 | 29° 4 | 19°51 | 8°35 | 12°33 | 4°49 | 11°23 | 3°31 | 2°24 | 5°26 | n.a. | W24 |
| T 25 | 15 59 33 | 0♊ 8'25 | 28° 7 | 12°37 | 18°48 | 29°47 | 20° 3 | 8°43 | 12°34 | 4°51 | 11°24 | 3°24 | 2°21 | 5°33 | n.a. | T 25 |
| F 26 | 16 3 30 | 1° 5'32 | 10♒ 3 | 14°23 | 20° 1 | 0♌29 | 20°16 | 8°50 | 12°35 | 4°53 | 11°26 | 3°20 | 2°17 | 5°40 | n.a. | F 26 |
| S 27 | 16 7 26 | 2° 2'38 | 22° 6 | 16°12 | 21°15 | 1°11 | 20°28 | 8°58 | 12°37 | 4°55 | 11°27 | 3°17 | 2°14 | 5°46 | n.a. | S 27 |
| S 28 | 16 11 23 | 2°59'45 | 4♓22 | 18° 4 | 22°28 | 1°53 | 20°40 | 9° 6 | 12°38 | 4°57 | 11°28 | 3°D17 | 2°11 | 5°53 | n.a. | S 28 |
| M29 | 16 15 19 | 3°56'52 | 16°55 | 19°58 | 23°41 | 2°35 | 20°52 | 9°14 | 12°39 | 4°59 | 11°29 | 3°17 | 2° 8 | 6° 0 | n.a. | M29 |
| T 30 | 16 19 16 | 4°54'00 | 29°50 | 21°55 | 24°55 | 3°17 | 21° 5 | 9°22 | 12°40 | 5° 1 | 11°31 | 3°R18 | 2° 5 | 6° 6 | n.a. | T 30 |
| W31 | 16 23 13 | 5♊51'07 | 13♈11 | 23♉54 | 26♉ 8 | 3♉59 | 21♈17 | 9♊30 | 12♓41 | 5♉ 3 | 11♉32 | 3♎18 | 2♎ 2 | 6♑13 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| M 1 | 14n 5 | 6s15 | 2n18 | 3n24 | 3s22 | 6n28 | 1s21 | 4n23 | 0s43 | 4n52 | 1s 7 | 20n28 | 1s 3 | 7s53 | 0s45 | 11n16 | 1s50 | 4n28 | 11s20 | 1s58 | 1s27 | 18s32 | | | n.a. |
| T 2 | 14 24 | 2 14 | 1 12 | 3 29 | 3 26 | 6 57 | 1 20 | 4 40 | 0 43 | 4 58 | 1 7 | 20 29 | 1 3 | 7 52 | 0 45 | 11 16 | 1 50 | 4 28 | 11 20 | 1 58 | 1 26 | 18 32 | | | n.a. |
| W 3 | 14 42 | 2n 1 | 0s 1 | 3 37 | 3 29 | 7 26 | 1 18 | 4 58 | 0 42 | 5 3 | 1 7 | 20 31 | 1 2 | 7 51 | 0 45 | 11 17 | 1 50 | 4 29 | 11 20 | 1 59 | 1 25 | 18 31 | | | n.a. |
| T 4 | 15 1 | 6 18 | 1 15 | 3 47 | 3 31 | 7 54 | 1 17 | 5 15 | 0 42 | 5 8 | 1 7 | 20 32 | 1 2 | 7 50 | 0 45 | 11 18 | 1 50 | 4 29 | 11 20 | 1 58 | 1 23 | 18 31 | | | n.a. |
| F 5 | 15 19 | 10 21 | 2 27 | 3 59 | 3 33 | 8 23 | 1 16 | 5 32 | 0 41 | 5 13 | 1 7 | 20 33 | 1 2 | 7 50 | 0 45 | 11 19 | 1 50 | 4 30 | 11 20 | 1 57 | 1 22 | 18 31 | | | n.a. |
| S 6 | 15 37 | 13 52 | 3 31 | 4 14 | 3 33 | 8 51 | 1 14 | 5 50 | 0 41 | 5 18 | 1 7 | 20 35 | 1 2 | 7 49 | 0 45 | 11 19 | 1 50 | 4 30 | 11 20 | 1 56 | 1 21 | 18 31 | | | n.a. |
| S 7 | 15 54 | 16 34 | 4 22 | 4 31 | 3 33 | 9 20 | 1 12 | 6 7 | 0 40 | 5 24 | 1 7 | 20 36 | 1 2 | 7 48 | 0 45 | 11 20 | 1 50 | 4 30 | 11 20 | 1 54 | 1 19 | 18 31 | | | n.a. |
| M 8 | 16 12 | 18 10 | 4 55 | 4 50 | 3 31 | 9 48 | 1 11 | 6 24 | 0 40 | 5 29 | 1 7 | 20 38 | 1 2 | 7 47 | 0 45 | 11 21 | 1 50 | 4 31 | 11 20 | 1 51 | 1 18 | 18 31 | | | n.a. |
| T 9 | 16 29 | 18 32 | 5 9 | 5 11 | 3 29 | 10 15 | 1 9 | 6 41 | 0 39 | 5 34 | 1 7 | 20 39 | 1 2 | 7 47 | 0 45 | 11 22 | 1 50 | 4 31 | 11 20 | 1 49 | 1 17 | 18 30 | | | n.a. |
| W10 | 16 46 | 17 40 | 5 3 | 5 34 | 3 26 | 10 43 | 1 7 | 6 58 | 0 38 | 5 39 | 1 7 | 20 40 | 1 2 | 7 46 | 0 45 | 11 22 | 1 50 | 4 32 | 11 20 | 1 47 | 1 16 | 18 30 | | | n.a. |
| T 11 | 17 2 | 15 40 | 4 37 | 5 59 | 3 23 | 11 10 | 1 6 | 7 15 | 0 38 | 5 44 | 1 7 | 20 42 | 1 1 | 7 45 | 0 45 | 11 23 | 1 50 | 4 32 | 11 20 | 1 46 | 1 14 | 18 30 | | | n.a. |
| F 12 | 17 19 | 12 46 | 3 56 | 6 26 | 3 18 | 11 37 | 1 4 | 7 32 | 0 37 | 5 49 | 1 7 | 20 43 | 1 1 | 7 45 | 0 45 | 11 24 | 1 50 | 4 33 | 11 20 | 1 46 | 1 13 | 18 30 | | | n.a. |
| S 13 | 17 35 | 9 12 | 3 1 | 6 55 | 3 13 | 12 4 | 1 2 | 7 49 | 0 37 | 5 54 | 1 8 | 20 44 | 1 1 | 7 44 | 0 45 | 11 25 | 1 50 | 4 33 | 11 20 | 1 46 | 1 12 | 18 30 | | | n.a. |
| S 14 | 17 51 | 5 14 | 1 57 | 7 25 | 3 8 | 12 31 | 1 0 | 8 6 | 0 36 | 5 59 | 1 8 | 20 46 | 1 1 | 7 43 | 0 45 | 11 25 | 1 50 | 4 33 | 11 20 | 1 46 | 1 11 | 18 29 | | | n.a. |
| M15 | 18 6 | 1 5 | 0 48 | 7 57 | 3 1 | 12 57 | 0 58 | 8 22 | 0 36 | 6 4 | 1 8 | 20 47 | 1 1 | 7 43 | 0 45 | 11 26 | 1 50 | 4 34 | 11 20 | 1 47 | 1 9 | 18 29 | | | n.a. |
| T 16 | 18 21 | 3s 3 | 0n22 | 8 31 | 2 54 | 13 23 | 0 56 | 8 39 | 0 35 | 6 9 | 1 8 | 20 49 | 1 1 | 7 42 | 0 45 | 11 27 | 1 50 | 4 34 | 11 20 | 1 47 | 1 8 | 18 29 | | | n.a. |
| W17 | 18 36 | 6 58 | 1 29 | 9 5 | 2 47 | 13 48 | 0 54 | 8 55 | 0 35 | 6 14 | 1 8 | 20 50 | 1 1 | 7 41 | 0 45 | 11 27 | 1 50 | 4 35 | 11 20 | 1 46 | 1 7 | 18 29 | | | n.a. |
| T 18 | 18 51 | 10 32 | 2 31 | 9 41 | 2 39 | 14 14 | 0 52 | 9 12 | 0 34 | 6 19 | 1 8 | 20 51 | 1 1 | 7 41 | 0 45 | 11 28 | 1 50 | 4 35 | 11 20 | 1 45 | 1 5 | 18 29 | | | n.a. |
| F 19 | 19 5 | 13 34 | 3 25 | 10 19 | 2 30 | 14 39 | 0 50 | 9 28 | 0 33 | 6 24 | 1 8 | 20 53 | 1 1 | 7 40 | 0 45 | 11 29 | 1 50 | 4 35 | 11 20 | 1 43 | 1 4 | 18 28 | | | n.a. |
| S 20 | 19 19 | 15 58 | 4 8 | 10 57 | 2 21 | 15 3 | 0 48 | 9 44 | 0 33 | 6 29 | 1 8 | 20 54 | 1 0 | 7 40 | 0 46 | 11 30 | 1 50 | 4 36 | 11 20 | 1 40 | 1 3 | 18 28 | | | n.a. |
| S 21 | 19 33 | 17 38 | 4 40 | 11 37 | 2 12 | 15 28 | 0 46 | 10 0 | 0 32 | 6 33 | 1 8 | 20 55 | 1 0 | 7 39 | 0 46 | 11 30 | 1 50 | 4 36 | 11 20 | 1 36 | 1 2 | 18 28 | | | n.a. |
| M22 | 19 46 | 18 30 | 4 59 | 12 17 | 2 2 | 15 51 | 0 44 | 10 16 | 0 32 | 6 38 | 1 8 | 20 57 | 1 0 | 7 39 | 0 46 | 11 31 | 1 50 | 4 37 | 11 20 | 1 32 | 1 0 | 18 28 | | | n.a. |
| T 23 | 19 59 | 18 33 | 5 5 | 12 58 | 1 52 | 16 15 | 0 41 | 10 32 | 0 31 | 6 43 | 1 8 | 20 58 | 1 0 | 7 38 | 0 46 | 11 32 | 1 50 | 4 37 | 11 20 | 1 28 | 0 59 | 18 28 | | | n.a. |
| W24 | 20 12 | 17 46 | 4 58 | 13 40 | 1 41 | 16 38 | 0 39 | 10 47 | 0 30 | 6 48 | 1 8 | 20 59 | 1 0 | 7 38 | 0 46 | 11 32 | 1 50 | 4 37 | 11 20 | 1 25 | 0 58 | 18 27 | | | n.a. |
| T 25 | 20 24 | 16 14 | 4 38 | 14 22 | 1 30 | 17 1 | 0 37 | 11 3 | 0 30 | 6 52 | 1 8 | 21 1 | 1 0 | 7 37 | 0 46 | 11 33 | 1 50 | 4 38 | 11 20 | 1 22 | 0 57 | 18 27 | | | n.a. |
| F 26 | 20 36 | 13 59 | 4 5 | 15 5 | 1 19 | 17 23 | 0 35 | 11 19 | 0 29 | 6 57 | 1 8 | 21 2 | 1 0 | 7 37 | 0 46 | 11 34 | 1 50 | 4 38 | 11 20 | 1 20 | 0 55 | 18 27 | | | n.a. |
| S 27 | 20 48 | 11 7 | 3 22 | 15 47 | 1 8 | 17 45 | 0 32 | 11 34 | 0 29 | 7 2 | 1 8 | 21 3 | 1 0 | 7 36 | 0 46 | 11 34 | 1 50 | 4 38 | 11 20 | 1 19 | 0 54 | 18 27 | | | n.a. |
| S 28 | 20 59 | 7 43 | 2 28 | 16 30 | 0 56 | 18 6 | 0 30 | 11 49 | 0 28 | 7 6 | 1 8 | 21 5 | 1 0 | 7 36 | 0 46 | 11 35 | 1 50 | 4 39 | 11 20 | 1 19 | 0 53 | 18 26 | | | n.a. |
| M29 | 21 10 | 3 54 | 1 26 | 17 13 | 0 45 | 18 27 | 0 28 | 12 4 | 0 27 | 7 11 | 1 9 | 21 6 | 1 0 | 7 35 | 0 46 | 11 36 | 1 50 | 4 39 | 11 20 | 1 19 | 0 51 | 18 26 | | | n.a. |
| T 30 | 21 21 | 0n13 | 0 19 | 17 55 | 0 33 | 18 48 | 0 26 | 12 19 | 0 27 | 7 15 | 1 9 | 21 7 | 0 59 | 7 35 | 0 46 | 11 36 | 1 50 | 4 39 | 11 21 | 1 20 | 0 50 | 18 26 | | | n.a. |
| W31 | 21n31 | 4n27 | 0s53 | 18n37 | 0s21 | 19n 8 | 0s23 | 12n34 | 0s26 | 7n20 | 1s 9 | 21n 8 | 0s59 | 7s35 | 0s46 | 11n37 | 1s50 | 4n40 | 11s21 | 1s19 | 0s49 | 18s26 | | | n.a. |

Julian Day Number = 1689036.5, Delta T = 03h11m28s
Ecliptic obliquity = 23°42'12, Nutation = - 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°17'21, Lahiri = - 5°10'20 Julian Calendar 1 May 89 BCE == Greg. Calendar 29 Apr. 089 BCE

The year -88 astronomical counting style corresponds to year 089 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 89 BCE
# geocentric

## JUNE 89 BCE (-88) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 27 9 | 6♊48'14 | 27♈ 0 | 25♉56 | 27♉22 | 4♉41 | 21♈29 | 9♊37 | 12♓42 | 5♉ 5 | 11♉33 | 3°R15 | 1♎58 | 6♑20 | n.a. | T 1 |
| F 2 | 16 31 6 | 7°45'22 | 11♉17 | 27°59 | 28°35 | 5°22 | 21°40 | 9°45 | 12°43 | 5° 7 | 11°34 | 3♎11 | 1°55 | 6°27 | n.a. | F 2 |
| S 3 | 16 35 2 | 8°42'30 | 25°59 | 0♊ 4 | 29°49 | 6° 4 | 21°52 | 9°53 | 12°44 | 5° 9 | 11°36 | 3° 4 | 1°52 | 6°33 | n.a. | S 3 |
| S 4 | 16 38 59 | 9°39'38 | 11♊ 0 | 2°11 | 1♊ 2 | 6°46 | 22° 4 | 10° 1 | 12°45 | 5°11 | 11°37 | 2°55 | 1°49 | 6°40 | n.a. | S 4 |
| M 5 | 16 42 55 | 10°36'47 | 26°10 | 4°19 | 2°16 | 7°27 | 22°16 | 10° 9 | 12°45 | 5°13 | 11°38 | 2°46 | 1°46 | 6°47 | n.a. | M 5 |
| T 6 | 16 46 52 | 11°33'55 | 11♋19 | 6°27 | 3°29 | 8° 9 | 22°27 | 10°17 | 12°46 | 5°15 | 11°39 | 2°36 | 1°43 | 6°54 | n.a. | T 6 |
| W 7 | 16 50 48 | 12°31'03 | 26°17 | 8°37 | 4°43 | 8°50 | 22°39 | 10°25 | 12°47 | 5°17 | 11°41 | 2°28 | 1°39 | 7° 0 | n.a. | W 7 |
| T 8 | 16 54 45 | 13°28'11 | 10♌55 | 10°46 | 5°57 | 9°32 | 22°50 | 10°32 | 12°47 | 5°18 | 11°42 | 2°22 | 1°36 | 7° 7 | n.a. | T 8 |
| F 9 | 16 58 42 | 14°25'19 | 25°10 | 12°56 | 7°10 | 10°13 | 23° 1 | 10°40 | 12°48 | 5°20 | 11°43 | 2°19 | 1°33 | 7°14 | n.a. | F 9 |
| S 10 | 17 2 38 | 15°22'27 | 9♍ 0 | 15° 6 | 8°24 | 10°54 | 23°12 | 10°48 | 12°49 | 5°22 | 11°44 | 2°18 | 1°30 | 7°20 | n.a. | S 10 |
| S 11 | 17 6 35 | 16°19'35 | 22°26 | 17°15 | 9°37 | 11°35 | 23°24 | 10°56 | 12°49 | 5°24 | 11°45 | 2°D18 | 1°27 | 7°27 | n.a. | S 11 |
| M12 | 17 10 31 | 17°16'43 | 5♎29 | 19°23 | 10°51 | 12°17 | 23°35 | 11° 4 | 12°50 | 5°26 | 11°47 | 2°R18 | 1°23 | 7°34 | n.a. | M12 |
| T 13 | 17 14 28 | 18°13'51 | 18°15 | 21°31 | 12° 5 | 12°58 | 23°46 | 11°12 | 12°50 | 5°27 | 11°48 | 2°17 | 1°20 | 7°41 | n.a. | T 13 |
| W14 | 17 18 24 | 19°10'59 | 0♏46 | 23°37 | 13°18 | 13°39 | 23°56 | 11°19 | 12°50 | 5°29 | 11°49 | 2°14 | 1°17 | 7°47 | n.a. | W14 |
| T 15 | 17 22 21 | 20° 8'08 | 13° 5 | 25°42 | 14°32 | 14°20 | 24° 7 | 11°27 | 12°51 | 5°31 | 11°50 | 2° 9 | 1°14 | 7°54 | n.a. | T 15 |
| F 16 | 17 26 17 | 21° 5'17 | 25°16 | 27°46 | 15°46 | 15° 0 | 24°18 | 11°35 | 12°51 | 5°33 | 11°51 | 2° 0 | 1°11 | 8° 1 | n.a. | F 16 |
| S 17 | 17 30 14 | 22° 2'26 | 7♐20 | 29°49 | 17° 0 | 15°41 | 24°28 | 11°43 | 12°51 | 5°34 | 11°52 | 1°49 | 1° 8 | 8° 8 | n.a. | S 17 |
| S 18 | 17 34 11 | 22°59'35 | 19°19 | 1♋49 | 18°13 | 16°22 | 24°39 | 11°51 | 12°51 | 5°36 | 11°53 | 1°37 | 1° 4 | 8°14 | n.a. | S 18 |
| M19 | 17 38 7 | 23°56'46 | 1♑14 | 3°49 | 19°27 | 17° 3 | 24°49 | 11°58 | 12°51 | 5°38 | 11°54 | 1°23 | 1° 1 | 8°21 | n.a. | M19 |
| T 20 | 17 42 4 | 24°53'56 | 13° 7 | 5°46 | 20°41 | 17°43 | 24°59 | 12° 6 | 12°51 | 5°39 | 11°55 | 1°10 | 0°58 | 8°28 | n.a. | T 20 |
| W21 | 17 46 0 | 25°51'08 | 24°59 | 7°42 | 21°55 | 18°24 | 25° 9 | 12°14 | 12°R51 | 5°41 | 11°56 | 0°58 | 0°55 | 8°34 | n.a. | W21 |
| T 22 | 17 49 57 | 26°48'20 | 6♒52 | 9°36 | 23° 8 | 19° 4 | 25°19 | 12°21 | 12°51 | 5°42 | 11°57 | 0°48 | 0°52 | 8°41 | n.a. | T 22 |
| F 23 | 17 53 53 | 27°45'33 | 18°49 | 11°29 | 24°22 | 19°45 | 25°29 | 12°29 | 12°51 | 5°44 | 11°58 | 0°41 | 0°49 | 8°48 | n.a. | F 23 |
| S 24 | 17 57 50 | 28°42'47 | 0♓53 | 13°20 | 25°36 | 20°25 | 25°39 | 12°37 | 12°51 | 5°45 | 11°59 | 0°36 | 0°45 | 8°55 | n.a. | S 24 |
| S 25 | 18 1 47 | 29°40'02 | 13° 8 | 15° 8 | 26°50 | 21° 6 | 25°49 | 12°44 | 12°51 | 5°47 | 12° 0 | 0°34 | 0°42 | 9° 1 | n.a. | S 25 |
| M26 | 18 5 43 | 0♋37'18 | 25°39 | 16°56 | 28° 4 | 21°46 | 25°58 | 12°52 | 12°51 | 5°48 | 12° 1 | 0°33 | 0°39 | 9° 8 | n.a. | M26 |
| T 27 | 18 9 40 | 1°34'35 | 8♈30 | 18°41 | 29°18 | 22°26 | 26° 8 | 13° 0 | 12°50 | 5°50 | 12° 2 | 0°33 | 0°36 | 9°15 | n.a. | T 27 |
| W28 | 18 13 36 | 2°31'53 | 21°46 | 20°25 | 0♋32 | 23° 6 | 26°17 | 13° 7 | 12°50 | 5°51 | 12° 3 | 0°33 | 0°33 | 9°21 | n.a. | W28 |
| T 29 | 18 17 33 | 3°29'12 | 5♉30 | 22° 7 | 1°46 | 23°46 | 26°26 | 13°15 | 12°50 | 5°53 | 12° 4 | 0°30 | 0°29 | 9°28 | n.a. | T 29 |
| F 30 | 18 21 29 | 4♋26'33 | 19♉43 | 23♋48 | 3♋ 0 | 24♉26 | 26♈35 | 13♊22 | 12♓49 | 5♉54 | 12♉ 5 | 0♎25 | 0♎26 | 9♑35 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21n41 | 8n36 | 2s 3 | 19n17 | 0s10 | 19n27 | 0s21 | 12n49 | 0s26 | 7n24 | 1s 9 | 21n10 | 0s59 | 7s34 | 0s46 | 11n38 | 1s50 | 4n40 | 11s21 | 1s19 | 0s48 | 18s25 | | n.a. |
| F 2 | 21 51 | 12 24 | 3 8 | 19 57 | 0n 1 | 19 46 | 0 18 | 13 4 | 0 25 | 7 29 | 1 9 | 21 11 | 0 59 | 7 34 | 0 46 | 11 38 | 1 50 | 4 40 | 11 21 | 1 17 | 0 46 | 18 25 | | n.a. |
| S 3 | 22 0 | 15 33 | 4 2 | 20 35 | 0 12 | 20 4 | 0 16 | 13 18 | 0 24 | 7 33 | 1 9 | 21 12 | 0 59 | 7 34 | 0 46 | 11 39 | 1 50 | 4 41 | 11 21 | 1 14 | 0 45 | 18 25 | | n.a. |
| S 4 | 22 9 | 17 42 | 4 41 | 21 12 | 0 23 | 20 22 | 0 14 | 13 33 | 0 24 | 7 37 | 1 9 | 21 13 | 0 59 | 7 33 | 0 46 | 11 40 | 1 50 | 4 41 | 11 21 | 1 10 | 0 44 | 18 25 | | n.a. |
| M 5 | 22 17 | 18 38 | 5 1 | 21 47 | 0 33 | 20 40 | 0 11 | 13 47 | 0 23 | 7 41 | 1 9 | 21 15 | 0 59 | 7 33 | 0 46 | 11 40 | 1 50 | 4 41 | 11 21 | 1 7 | 0 42 | 18 24 | | n.a. |
| T 6 | 22 25 | 18 15 | 4 59 | 22 20 | 0 43 | 20 56 | 0 9 | 14 1 | 0 22 | 7 46 | 1 9 | 21 16 | 0 59 | 7 33 | 0 46 | 11 41 | 1 51 | 4 41 | 11 21 | 1 3 | 0 41 | 18 24 | | n.a. |
| W 7 | 22 33 | 16 36 | 4 37 | 22 50 | 0 52 | 21 12 | 0 7 | 14 15 | 0 22 | 7 50 | 1 9 | 21 17 | 0 59 | 7 33 | 0 46 | 11 41 | 1 51 | 4 42 | 11 21 | 1 0 | 0 40 | 18 24 | | n.a. |
| T 8 | 22 40 | 13 53 | 3 57 | 23 19 | 1 1 | 21 28 | 0 4 | 14 29 | 0 21 | 7 54 | 1 9 | 21 18 | 0 59 | 7 32 | 0 46 | 11 42 | 1 51 | 4 42 | 11 21 | 0 57 | 0 39 | 18 24 | | n.a. |
| F 9 | 22 47 | 10 24 | 3 3 | 23 44 | 1 9 | 21 43 | 0 2 | 14 43 | 0 21 | 7 58 | 1 10 | 21 20 | 0 59 | 7 32 | 0 46 | 11 43 | 1 51 | 4 42 | 11 21 | 0 56 | 0 37 | 18 23 | | n.a. |
| S 10 | 22 53 | 6 26 | 2 0 | 24 7 | 1 16 | 21 58 | 0n 1 | 14 57 | 0 20 | 8 2 | 1 10 | 21 21 | 0 59 | 7 32 | 0 46 | 11 43 | 1 51 | 4 42 | 11 21 | 0 55 | 0 36 | 18 23 | | n.a. |
| S 11 | 23 0 | 2 14 | 0 52 | 24 28 | 1 23 | 22 11 | 0 3 | 15 10 | 0 19 | 8 6 | 1 10 | 21 22 | 0 58 | 7 32 | 0 46 | 11 44 | 1 51 | 4 43 | 11 21 | 0 55 | 0 35 | 18 23 | | n.a. |
| M12 | 23 5 | 1s57 | 0n17 | 24 45 | 1 29 | 22 25 | 0 5 | 15 24 | 0 19 | 8 10 | 1 10 | 21 23 | 0 58 | 7 32 | 0 46 | 11 44 | 1 51 | 4 43 | 11 22 | 0 55 | 0 34 | 18 23 | | n.a. |
| T 13 | 23 11 | 5 57 | 1 24 | 25 0 | 1 34 | 22 37 | 0 8 | 15 37 | 0 18 | 8 14 | 1 10 | 21 24 | 0 58 | 7 32 | 0 46 | 11 45 | 1 51 | 4 43 | 11 22 | 0 55 | 0 32 | 18 22 | | n.a. |
| W14 | 23 15 | 9 37 | 2 25 | 25 12 | 1 39 | 22 49 | 0 10 | 15 50 | 0 17 | 8 18 | 1 10 | 21 25 | 0 58 | 7 32 | 0 46 | 11 45 | 1 51 | 4 43 | 11 22 | 0 54 | 0 31 | 18 22 | | n.a. |
| T 15 | 23 20 | 12 48 | 3 18 | 25 21 | 1 43 | 23 0 | 0 13 | 16 3 | 0 17 | 8 22 | 1 10 | 21 27 | 0 58 | 7 31 | 0 46 | 11 46 | 1 51 | 4 44 | 11 22 | 0 52 | 0 30 | 18 22 | | n.a. |
| F 16 | 23 24 | 15 23 | 4 1 | 25 27 | 1 46 | 23 11 | 0 15 | 16 16 | 0 16 | 8 26 | 1 10 | 21 28 | 0 58 | 7 31 | 0 46 | 11 46 | 1 51 | 4 44 | 11 22 | 0 48 | 0 28 | 18 21 | | n.a. |
| S 17 | 23 28 | 17 17 | 4 33 | 25 31 | 1 49 | 23 21 | 0 17 | 16 28 | 0 15 | 8 30 | 1 10 | 21 29 | 0 58 | 7 31 | 0 47 | 11 47 | 1 51 | 4 44 | 11 22 | 0 44 | 0 27 | 18 21 | | n.a. |
| S 18 | 23 31 | 18 24 | 4 53 | 25 32 | 1 50 | 23 30 | 0 20 | 16 41 | 0 15 | 8 34 | 1 10 | 21 30 | 0 58 | 7 31 | 0 47 | 11 47 | 1 51 | 4 44 | 11 22 | 0 39 | 0 26 | 18 21 | | n.a. |
| M19 | 23 34 | 18 42 | 5 0 | 25 30 | 1 52 | 23 39 | 0 22 | 16 53 | 0 14 | 8 37 | 1 11 | 21 31 | 0 58 | 7 31 | 0 47 | 11 48 | 1 51 | 4 45 | 11 22 | 0 33 | 0 25 | 18 21 | | n.a. |
| T 20 | 23 36 | 18 11 | 4 53 | 25 26 | 1 52 | 23 46 | 0 24 | 17 6 | 0 13 | 8 41 | 1 11 | 21 32 | 0 58 | 7 31 | 0 47 | 11 48 | 1 51 | 4 45 | 11 22 | 0 28 | 0 23 | 18 20 | | n.a. |
| W21 | 23 38 | 16 52 | 4 34 | 25 20 | 1 52 | 23 54 | 0 26 | 17 18 | 0 13 | 8 45 | 1 11 | 21 33 | 0 58 | 7 31 | 0 47 | 11 49 | 1 51 | 4 45 | 11 23 | 0 23 | 0 22 | 18 20 | | n.a. |
| T 22 | 23 40 | 14 50 | 4 3 | 25 12 | 1 51 | 24 0 | 0 29 | 17 30 | 0 12 | 8 48 | 1 11 | 21 34 | 0 58 | 7 31 | 0 47 | 11 49 | 1 51 | 4 45 | 11 23 | 0 19 | 0 21 | 18 20 | | n.a. |
| F 23 | 23 41 | 12 10 | 3 21 | 25 1 | 1 50 | 24 6 | 0 31 | 17 41 | 0 11 | 8 52 | 1 11 | 21 35 | 0 58 | 7 31 | 0 47 | 11 50 | 1 51 | 4 45 | 11 23 | 0 16 | 0 19 | 18 19 | | n.a. |
| S 24 | 23 42 | 8 57 | 2 30 | 24 49 | 1 48 | 24 11 | 0 33 | 17 53 | 0 10 | 8 55 | 1 11 | 21 36 | 0 58 | 7 32 | 0 47 | 11 50 | 1 51 | 4 45 | 11 23 | 0 15 | 0 18 | 18 19 | | n.a. |
| S 25 | 23 42 | 5 18 | 1 31 | 24 34 | 1 45 | 24 15 | 0 35 | 18 4 | 0 10 | 8 59 | 1 11 | 21 37 | 0 58 | 7 32 | 0 47 | 11 51 | 1 51 | 4 46 | 11 23 | 0 14 | 0 17 | 18 19 | | n.a. |
| M26 | 23 42 | 1 21 | 0 26 | 24 18 | 1 42 | 24 19 | 0 37 | 18 16 | 0 9 | 9 2 | 1 11 | 21 38 | 0 58 | 7 32 | 0 47 | 11 51 | 1 51 | 4 46 | 11 23 | 0 13 | 0 16 | 18 18 | | n.a. |
| T 27 | 23 42 | 2n46 | 0s42 | 24 1 | 1 38 | 24 22 | 0 39 | 18 27 | 0 8 | 9 5 | 1 12 | 21 39 | 0 57 | 7 32 | 0 47 | 11 52 | 1 51 | 4 46 | 11 23 | 0 13 | 0 14 | 18 18 | | n.a. |
| W28 | 23 41 | 6 53 | 1 50 | 23 41 | 1 34 | 24 24 | 0 42 | 18 38 | 0 8 | 9 9 | 1 12 | 21 40 | 0 57 | 7 32 | 0 47 | 11 52 | 1 51 | 4 46 | 11 24 | 0 13 | 0 13 | 18 18 | | n.a. |
| T 29 | 23 39 | 10 46 | 2 53 | 23 21 | 1 30 | 24 25 | 0 44 | 18 49 | 0 7 | 9 12 | 1 12 | 21 41 | 0 57 | 7 32 | 0 47 | 11 53 | 1 51 | 4 46 | 11 24 | 0 12 | 0 12 | 18 17 | | n.a. |
| F 30 | 23n38 | 14n11 | 3s49 | 22n58 | 1n25 | 24n26 | 0n46 | 18n59 | 0s 6 | 9n15 | 1s12 | 21n42 | 0s57 | 7s32 | 0s47 | 11n53 | 1s52 | 4n46 | 11s24 | 0s10 | 0s11 | 18s17 | | n.a. |

Julian Day Number = 1689067.5, Delta T = 03h11m27s
Ecliptic obliquity = 23°42'11, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°17'16, Lahiri = - 5°10'16 Julian Calendar 1 June 89 BCE == Greg. Calendar 30 May 089 BCE

The year -88 astronomical counting style corresponds to year 089 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 89 BCE
# geocentric

## JULY 89 BCE (-88) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 25 26 | 5♋23'54 | 4♊23 | 25♋26 | 4♋14 | 25♉ 6 | 26♈44 | 13♊30 | 12°R49 | 5♉55 | 12♉ 6 | 0°R18 | 0♎23 | 9♑42 | n.a. | S 1 |
| S 2 | 18 29 22 | 6°21'17 | 19°26 | 27° 3 | 5°28 | 25°46 | 26°53 | 13°37 | 12♓48 | 5°57 | 12° 7 | 0♎ 8 | 0°20 | 9°48 | n.a. | S 2 |
| M 3 | 18 33 19 | 7°18'41 | 4♋43 | 28°38 | 6°42 | 26°26 | 27° 2 | 13°45 | 12°48 | 5°58 | 12° 8 | 29♏58 | 0°17 | 9°55 | n.a. | M 3 |
| T 4 | 18 37 16 | 8°16'06 | 20° 2 | 0♌12 | 7°56 | 27° 6 | 27°11 | 13°52 | 12°47 | 5°59 | 12° 9 | 29°47 | 0°14 | 10° 2 | n.a. | T 4 |
| W 5 | 18 41 12 | 9°13'32 | 5♌12 | 1°44 | 9°10 | 27°46 | 27°19 | 14° 0 | 12°46 | 6° 1 | 12° 9 | 29°38 | 0°10 | 10° 9 | n.a. | W 5 |
| T 6 | 18 45 9 | 10°10'59 | 20° 3 | 3°14 | 10°24 | 28°25 | 27°27 | 14° 7 | 12°46 | 6° 2 | 12°10 | 29°31 | 0° 7 | 10°15 | n.a. | T 6 |
| F 7 | 18 49 5 | 11° 8'27 | 4♏29 | 4°42 | 11°38 | 29° 5 | 27°36 | 14°14 | 12°45 | 6° 3 | 12°11 | 29°27 | 0° 4 | 10°22 | n.a. | F 7 |
| S 8 | 18 53 2 | 12° 5'55 | 18°26 | 6° 9 | 12°52 | 29°44 | 27°44 | 14°21 | 12°44 | 6° 4 | 12°12 | 29°25 | 0° 1 | 10°29 | n.a. | S 8 |
| S 9 | 18 56 58 | 13° 3'25 | 1♎56 | 7°34 | 14° 6 | 0♊24 | 27°52 | 14°29 | 12°43 | 6° 5 | 12°13 | 29°D25 | 29♏58 | 10°35 | n.a. | S 9 |
| M10 | 19 0 55 | 14° 0'55 | 15° 1 | 8°57 | 15°20 | 1° 3 | 27°59 | 14°36 | 12°42 | 6° 6 | 12°13 | 29°R25 | 29°54 | 10°42 | n.a. | M10 |
| T 11 | 19 4 51 | 14°58'26 | 27°44 | 10°18 | 16°35 | 1°42 | 28° 7 | 14°43 | 12°42 | 6° 7 | 12°14 | 29°24 | 29°51 | 10°49 | n.a. | T 11 |
| W12 | 19 8 48 | 15°55'59 | 10♏ 9 | 11°37 | 17°49 | 2°21 | 28°14 | 14°50 | 12°41 | 6° 8 | 12°15 | 29°22 | 29°48 | 10°56 | n.a. | W12 |
| T 13 | 19 12 45 | 16°53'32 | 22°22 | 12°55 | 19° 3 | 3° 1 | 28°22 | 14°57 | 12°40 | 6° 9 | 12°16 | 29°17 | 29°45 | 11° 2 | n.a. | T 13 |
| F 14 | 19 16 41 | 17°51'07 | 4♐25 | 14°10 | 20°17 | 3°40 | 28°29 | 15° 4 | 12°38 | 6°10 | 12°16 | 29°10 | 29°42 | 11° 9 | n.a. | F 14 |
| S 15 | 19 20 38 | 18°48'42 | 16°22 | 15°24 | 21°31 | 4°19 | 28°36 | 15°11 | 12°37 | 6°11 | 12°17 | 29° 0 | 29°39 | 11°16 | n.a. | S 15 |
| S 16 | 19 24 34 | 19°46'19 | 28°16 | 16°35 | 22°45 | 4°58 | 28°43 | 15°18 | 12°36 | 6°12 | 12°17 | 28°48 | 29°35 | 11°22 | n.a. | S 16 |
| M17 | 19 28 31 | 20°43'57 | 10♑ 9 | 17°44 | 24° 0 | 5°37 | 28°50 | 15°25 | 12°35 | 6°13 | 12°18 | 28°36 | 29°32 | 11°29 | n.a. | M17 |
| T 18 | 19 32 27 | 21°41'37 | 22° 2 | 18°51 | 25°14 | 6°15 | 28°56 | 15°32 | 12°34 | 6°14 | 12°19 | 28°23 | 29°29 | 11°36 | n.a. | T 18 |
| W19 | 19 36 24 | 22°39'18 | 3♒56 | 19°55 | 26°28 | 6°54 | 29° 3 | 15°39 | 12°33 | 6°15 | 12°19 | 28°12 | 29°26 | 11°43 | n.a. | W19 |
| T 20 | 19 40 20 | 23°37'00 | 15°54 | 20°57 | 27°43 | 7°33 | 29° 9 | 15°46 | 12°31 | 6°16 | 12°20 | 28° 3 | 29°23 | 11°49 | n.a. | T 20 |
| F 21 | 19 44 17 | 24°34'45 | 27°57 | 21°57 | 28°57 | 8°11 | 29°15 | 15°53 | 12°30 | 6°16 | 12°20 | 27°57 | 29°20 | 11°56 | n.a. | F 21 |
| S 22 | 19 48 14 | 25°32'30 | 10♓ 7 | 22°53 | 0♌11 | 8°50 | 29°21 | 15°59 | 12°28 | 6°17 | 12°21 | 27°53 | 29°16 | 12° 3 | n.a. | S 22 |
| S 23 | 19 52 10 | 26°30'18 | 22°28 | 23°47 | 1°25 | 9°28 | 29°27 | 16° 6 | 12°27 | 6°18 | 12°21 | 27°D51 | 29°13 | 12°10 | n.a. | S 23 |
| M24 | 19 56 7 | 27°28'07 | 5♈ 2 | 24°38 | 2°40 | 10° 7 | 29°33 | 16°12 | 12°26 | 6°18 | 12°22 | 27°51 | 29°10 | 12°16 | n.a. | M24 |
| T 25 | 20 0 3 | 28°25'58 | 17°53 | 25°26 | 3°54 | 10°45 | 29°38 | 16°19 | 12°24 | 6°19 | 12°22 | 27°52 | 29° 7 | 12°23 | n.a. | T 25 |
| W26 | 20 4 0 | 29°23'51 | 1♉ 6 | 26°10 | 5° 9 | 11°23 | 29°44 | 16°25 | 12°22 | 6°20 | 12°23 | 27°R52 | 29° 4 | 12°30 | n.a. | W26 |
| T 27 | 20 7 56 | 0♌21'46 | 14°43 | 26°50 | 6°23 | 12° 2 | 29°49 | 16°32 | 12°21 | 6°20 | 12°23 | 27°51 | 29° 0 | 12°36 | n.a. | T 27 |
| F 28 | 20 11 53 | 1°19'43 | 28°46 | 27°27 | 7°37 | 12°40 | 29°54 | 16°38 | 12°19 | 6°21 | 12°24 | 27°49 | 28°57 | 12°43 | n.a. | F 28 |
| S 29 | 20 15 49 | 2°17'42 | 13♊15 | 27°59 | 8°52 | 13°18 | 29°58 | 16°45 | 12°18 | 6°21 | 12°24 | 27°44 | 28°54 | 12°50 | n.a. | S 29 |
| S 30 | 20 19 46 | 3°15'42 | 28° 6 | 28°28 | 10° 6 | 13°56 | 0♉ 3 | 16°51 | 12°16 | 6°22 | 12°24 | 27°37 | 28°51 | 12°57 | n.a. | S 30 |
| M31 | 20 23 43 | 4♌13'45 | 13♋12 | 28♌51 | 11♌21 | 14♊34 | 0♉ 8 | 16♊57 | 12♓14 | 6♉22 | 12♉25 | 27♏29 | 28♏48 | 13♑ 3 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23n35 | 16n49 | 4s31 | 22n35 | 1n19 | 24n26 | 0n48 | 19n10 | 0s 6 | 9n18 | 1s12 | 21n43 | 0s57 | 7s33 | 0s47 | 11n53 | 1s52 | 4n46 | 11s24 | 0s 7 | 0s 9 | 18s17 | | n.a. |
| S 2 | 23 33 | 18 22 | 4 55 | 22 11 | 1 14 | 24 25 | 0 49 | 19 20 | 0 5 | 9 21 | 1 12 | 21 44 | 0 57 | 7 33 | 0 47 | 11 54 | 1 52 | 4 46 | 11 24 | 0 3 | 0 8 | 18 16 | | n.a. |
| M 3 | 23 30 | 18 38 | 5 0 | 21 45 | 1 7 | 24 23 | 0 51 | 19 30 | 0 4 | 9 24 | 1 12 | 21 45 | 0 57 | 7 33 | 0 47 | 11 54 | 1 52 | 4 47 | 11 24 | 0n 1 | 0 7 | 18 16 | | n.a. |
| T 4 | 23 26 | 17 32 | 4 42 | 21 19 | 1 1 | 24 21 | 0 53 | 19 40 | 0 3 | 9 27 | 1 13 | 21 46 | 0 57 | 7 33 | 0 47 | 11 55 | 1 52 | 4 47 | 11 24 | 0 5 | 0 5 | 18 16 | | n.a. |
| W 5 | 23 23 | 15 13 | 4 5 | 20 52 | 0 54 | 24 18 | 0 55 | 19 50 | 0 3 | 9 30 | 1 13 | 21 47 | 0 57 | 7 34 | 0 47 | 11 55 | 1 52 | 4 47 | 11 25 | 0 9 | 0 4 | 18 15 | | n.a. |
| T 6 | 23 18 | 11 55 | 3 12 | 20 24 | 0 47 | 24 14 | 0 57 | 20 0 | 0 2 | 9 33 | 1 13 | 21 48 | 0 57 | 7 34 | 0 47 | 11 55 | 1 52 | 4 47 | 11 25 | 0 12 | 0 3 | 18 15 | | n.a. |
| F 7 | 23 14 | 7 59 | 2 8 | 19 56 | 0 39 | 24 10 | 0 59 | 20 9 | 0 1 | 9 36 | 1 13 | 21 49 | 0 57 | 7 34 | 0 47 | 11 56 | 1 52 | 4 47 | 11 25 | 0 13 | 0 2 | 18 15 | | n.a. |
| S 8 | 23 9 | 3 44 | 0 58 | 19 26 | 0 31 | 24 4 | 1 0 | 20 19 | 0 0 | 9 39 | 1 13 | 21 50 | 0 57 | 7 35 | 0 47 | 11 56 | 1 52 | 4 47 | 11 25 | 0 14 | 0 0 | 18 14 | | n.a. |
| S 9 | 23 3 | 0s34 | 0n13 | 18 57 | 0 23 | 23 58 | 1 2 | 20 28 | 0n 0 | 9 41 | 1 13 | 21 51 | 0 57 | 7 35 | 0 47 | 11 56 | 1 52 | 4 47 | 11 25 | 0 14 | 0n 1 | 18 14 | | n.a. |
| M10 | 22 57 | 4 43 | 1 22 | 18 27 | 0 14 | 23 52 | 1 4 | 20 37 | 0 1 | 9 44 | 1 13 | 21 52 | 0 57 | 7 35 | 0 47 | 11 57 | 1 52 | 4 47 | 11 26 | 0 14 | 0 2 | 18 14 | | n.a. |
| T 11 | 22 51 | 8 32 | 2 24 | 17 56 | 0 5 | 23 44 | 1 5 | 20 46 | 0 2 | 9 47 | 1 14 | 21 53 | 0 57 | 7 36 | 0 47 | 11 57 | 1 52 | 4 47 | 11 26 | 0 14 | 0 3 | 18 13 | | n.a. |
| W12 | 22 44 | 11 53 | 3 18 | 17 26 | 0s 4 | 23 36 | 1 7 | 20 54 | 0 2 | 9 49 | 1 14 | 21 53 | 0 57 | 7 36 | 0 47 | 11 57 | 1 52 | 4 47 | 11 26 | 0 15 | 0 5 | 18 13 | | n.a. |
| T 13 | 22 37 | 14 40 | 4 2 | 16 55 | 0 13 | 23 27 | 1 8 | 21 3 | 0 3 | 9 52 | 1 14 | 21 54 | 0 57 | 7 37 | 0 47 | 11 57 | 1 52 | 4 47 | 11 26 | 0 17 | 0 6 | 18 13 | | n.a. |
| F 14 | 22 30 | 16 46 | 4 34 | 16 24 | 0 22 | 23 18 | 1 9 | 21 11 | 0 4 | 9 54 | 1 14 | 21 55 | 0 57 | 7 37 | 0 47 | 11 58 | 1 52 | 4 47 | 11 26 | 0 20 | 0 7 | 18 12 | | n.a. |
| S 15 | 22 22 | 18 7 | 4 55 | 15 53 | 0 32 | 23 8 | 1 11 | 21 19 | 0 5 | 9 56 | 1 14 | 21 56 | 0 57 | 7 38 | 0 48 | 11 58 | 1 52 | 4 47 | 11 26 | 0 24 | 0 9 | 18 12 | | n.a. |
| S 16 | 22 14 | 18 40 | 5 2 | 15 22 | 0 42 | 22 57 | 1 12 | 21 27 | 0 6 | 9 59 | 1 14 | 21 57 | 0 57 | 7 38 | 0 48 | 11 58 | 1 52 | 4 47 | 11 27 | 0 29 | 0 10 | 18 11 | | n.a. |
| M17 | 22 5 | 18 24 | 4 56 | 14 52 | 0 52 | 22 45 | 1 13 | 21 35 | 0 6 | 10 1 | 1 15 | 21 57 | 0 57 | 7 39 | 0 48 | 11 58 | 1 52 | 4 47 | 11 27 | 0 34 | 0 11 | 18 11 | | n.a. |
| T 18 | 21 56 | 17 19 | 4 37 | 14 21 | 1 2 | 22 33 | 1 15 | 21 42 | 0 7 | 10 3 | 1 15 | 21 58 | 0 57 | 7 39 | 0 48 | 11 59 | 1 52 | 4 47 | 11 27 | 0 39 | 0 12 | 18 11 | | n.a. |
| W19 | 21 47 | 15 30 | 4 6 | 13 51 | 1 12 | 22 20 | 1 16 | 21 50 | 0 8 | 10 5 | 1 15 | 21 59 | 0 57 | 7 40 | 0 48 | 11 59 | 1 53 | 4 47 | 11 27 | 0 43 | 0 14 | 18 10 | | n.a. |
| T 20 | 21 37 | 13 0 | 3 24 | 13 22 | 1 23 | 22 6 | 1 17 | 21 57 | 0 9 | 10 7 | 1 15 | 22 0 | 0 57 | 7 40 | 0 48 | 11 59 | 1 53 | 4 47 | 11 27 | 0 47 | 0 15 | 18 10 | | n.a. |
| F 21 | 21 27 | 9 56 | 2 32 | 12 53 | 1 33 | 21 52 | 1 18 | 22 4 | 0 9 | 10 9 | 1 15 | 22 0 | 0 57 | 7 41 | 0 48 | 11 59 | 1 53 | 4 47 | 11 28 | 0 50 | 0 16 | 18 10 | | n.a. |
| S 22 | 21 16 | 6 25 | 1 33 | 12 24 | 1 44 | 21 37 | 1 19 | 22 11 | 0 10 | 10 11 | 1 15 | 22 1 | 0 56 | 7 41 | 0 48 | 11 59 | 1 53 | 4 47 | 11 28 | 0 51 | 0 18 | 18 9 | | n.a. |
| S 23 | 21 5 | 2 35 | 0 29 | 11 56 | 1 55 | 21 21 | 1 20 | 22 18 | 0 11 | 10 13 | 1 16 | 22 2 | 0 56 | 7 42 | 0 48 | 12 0 | 1 53 | 4 47 | 11 28 | 0 52 | 0 19 | 18 9 | | n.a. |
| M24 | 20 54 | 1n26 | 0s38 | 11 29 | 2 5 | 21 5 | 1 20 | 22 24 | 0 12 | 10 15 | 1 16 | 22 3 | 0 56 | 7 42 | 0 48 | 12 0 | 1 53 | 4 47 | 11 28 | 0 52 | 0 20 | 18 8 | | n.a. |
| T 25 | 20 42 | 5 28 | 1 45 | 11 3 | 2 16 | 20 48 | 1 21 | 22 31 | 0 12 | 10 17 | 1 16 | 22 3 | 0 56 | 7 43 | 0 48 | 12 0 | 1 53 | 4 47 | 11 28 | 0 51 | 0 21 | 18 8 | | n.a. |
| W26 | 20 30 | 9 21 | 2 48 | 10 39 | 2 26 | 20 31 | 1 22 | 22 37 | 0 13 | 10 19 | 1 16 | 22 4 | 0 56 | 7 44 | 0 48 | 12 0 | 1 53 | 4 47 | 11 29 | 0 51 | 0 23 | 18 8 | | n.a. |
| T 27 | 20 18 | 12 52 | 3 44 | 10 15 | 2 37 | 20 13 | 1 23 | 22 43 | 0 14 | 10 20 | 1 16 | 22 5 | 0 56 | 7 44 | 0 48 | 12 0 | 1 53 | 4 47 | 11 29 | 0 52 | 0 24 | 18 7 | | n.a. |
| F 28 | 20 5 | 15 45 | 4 28 | 9 53 | 2 47 | 19 54 | 1 23 | 22 49 | 0 15 | 10 22 | 1 16 | 22 5 | 0 56 | 7 45 | 0 48 | 12 0 | 1 53 | 4 47 | 11 29 | 0 53 | 0 25 | 18 7 | | n.a. |
| S 29 | 19 52 | 17 44 | 4 56 | 9 32 | 2 57 | 19 35 | 1 24 | 22 54 | 0 16 | 10 24 | 1 17 | 22 6 | 0 56 | 7 46 | 0 48 | 12 0 | 1 53 | 4 47 | 11 29 | 0 55 | 0 26 | 18 6 | | n.a. |
| S 30 | 19 38 | 18 35 | 5 6 | 9 13 | 3 7 | 19 15 | 1 24 | 23 0 | 0 16 | 10 25 | 1 17 | 22 7 | 0 56 | 7 46 | 0 48 | 12 1 | 1 53 | 4 47 | 11 29 | 0 58 | 0 28 | 18 6 | | n.a. |
| M31 | 19n25 | 18n 9 | 4s55 | 8n55 | 3s17 | 18n55 | 1n25 | 23n 5 | 0n17 | 10n26 | 1s17 | 22n 7 | 0s56 | 7s47 | 0s48 | 12n 1 | 1s53 | 4n47 | 11s30 | 1n 1 | 0n29 | 18s 5 | | n.a. |

Julian Day Number = 1689097.5, Delta T = 03h11m26s
Ecliptic obliquity = 23°42'11, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°17'12, Lahiri = - 5°10'12 Julian Calendar 1 July 89 BCE == Greg. Calendar 29 June 089 BCE

The year -88 astronomical counting style corresponds to year 089 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 89 BCE
# geocentric

## AUGUST 89 BCE (-88) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 27 39 | 5♌11'50 | 28♋25 | 29♌10 | 12♌35 | 15♊12 | 0♉12 | 17♊ 3 | 12°R12 | 6♉23 | 12♉25 | 27°R21 | 28♍45 | 13♏10 | n.a. | T 1 |
| W 2 | 20 31 36 | 6° 9'56 | 13♌33 | 29°24 | 13°50 | 15°49 | 0°16 | 17° 9 | 12♓11 | 6°23 | 12°25 | 27♍14 | 28°41 | 13°17 | n.a. | W 2 |
| T 3 | 20 35 32 | 7° 8'05 | 28°26 | 29°32 | 15° 4 | 16°27 | 0°20 | 17°15 | 12° 9 | 6°23 | 12°26 | 27° 9 | 28°38 | 13°23 | n.a. | T 3 |
| F 4 | 20 39 29 | 8° 6'14 | 12♍58 | 29°R35 | 16°19 | 17° 5 | 0°24 | 17°21 | 12° 7 | 6°24 | 12°26 | 27° 6 | 28°35 | 13°30 | n.a. | F 4 |
| S 5 | 20 43 25 | 9° 4'26 | 27° 2 | 29°31 | 17°33 | 17°42 | 0°27 | 17°27 | 12° 5 | 6°24 | 12°26 | 27°D 5 | 28°32 | 13°37 | n.a. | S 5 |
| S 6 | 20 47 22 | 10° 2'39 | 10♎39 | 29°22 | 18°48 | 18°20 | 0°31 | 17°33 | 12° 3 | 6°24 | 12°26 | 27° 6 | 28°29 | 13°44 | n.a. | S 6 |
| M 7 | 20 51 18 | 11° 0'53 | 23°49 | 29° 6 | 20° 2 | 18°57 | 0°34 | 17°39 | 12° 1 | 6°24 | 12°26 | 27° 7 | 28°26 | 13°50 | n.a. | M 7 |
| T 8 | 20 55 15 | 11°59'09 | 6♏35 | 28°43 | 21°17 | 19°34 | 0°37 | 17°44 | 11°59 | 6°24 | 12°27 | 27°R 8 | 28°22 | 13°57 | n.a. | T 8 |
| W 9 | 20 59 12 | 12°57'27 | 19° 2 | 28°15 | 22°31 | 20°12 | 0°40 | 17°50 | 11°57 | 6°25 | 12°27 | 27° 8 | 28°19 | 14° 4 | n.a. | W 9 |
| T 10 | 21 3 8 | 13°55'47 | 1♐13 | 27°39 | 23°46 | 20°49 | 0°42 | 17°55 | 11°55 | 6°25 | 12°27 | 27° 6 | 28°16 | 14°10 | n.a. | T 10 |
| F 11 | 21 7 5 | 14°54'08 | 13°15 | 26°58 | 25° 0 | 21°26 | 0°45 | 18° 1 | 11°53 | 6°25 | 12°27 | 27° 3 | 28°13 | 14°17 | n.a. | F 11 |
| S 12 | 21 11 1 | 15°52'31 | 25° 9 | 26°11 | 26°15 | 22° 3 | 0°47 | 18° 6 | 11°51 | 6°25 | 12°27 | 26°58 | 28°10 | 14°24 | n.a. | S 12 |
| S 13 | 21 14 58 | 16°50'56 | 7♑ 2 | 25°19 | 27°29 | 22°40 | 0°49 | 18°12 | 11°49 | 6°R25 | 12°27 | 26°51 | 28° 6 | 14°31 | n.a. | S 13 |
| M14 | 21 18 54 | 17°49'22 | 18°54 | 24°23 | 28°44 | 23°16 | 0°51 | 18°17 | 11°47 | 6°25 | 12°27 | 26°44 | 28° 3 | 14°37 | n.a. | M14 |
| T 15 | 21 22 51 | 18°47'51 | 0♒50 | 23°23 | 29°58 | 23°53 | 0°52 | 18°22 | 11°45 | 6°25 | 12°R27 | 26°37 | 28° 0 | 14°44 | n.a. | T 15 |
| W16 | 21 26 47 | 19°46'21 | 12°50 | 22°21 | 1♍13 | 24°30 | 0°54 | 18°27 | 11°42 | 6°25 | 12°27 | 26°30 | 27°57 | 14°51 | n.a. | W16 |
| T 17 | 21 30 44 | 20°44'53 | 24°56 | 21°19 | 2°28 | 25° 6 | 0°55 | 18°32 | 11°40 | 6°24 | 12°27 | 26°25 | 27°54 | 14°58 | n.a. | T 17 |
| F 18 | 21 34 40 | 21°43'27 | 7♓10 | 20°17 | 3°42 | 25°43 | 0°56 | 18°37 | 11°38 | 6°24 | 12°27 | 26°22 | 27°51 | 15° 4 | n.a. | F 18 |
| S 19 | 21 38 37 | 22°42'04 | 19°33 | 19°17 | 4°57 | 26°19 | 0°57 | 18°42 | 11°36 | 6°24 | 12°27 | 26°20 | 27°47 | 15°11 | n.a. | S 19 |
| S 20 | 21 42 34 | 23°40'42 | 2♈ 7 | 18°20 | 6°11 | 26°56 | 0°58 | 18°47 | 11°33 | 6°24 | 12°27 | 26°D20 | 27°44 | 15°18 | n.a. | S 20 |
| M21 | 21 46 30 | 24°39'23 | 14°53 | 17°29 | 7°26 | 27°32 | 0°58 | 18°51 | 11°31 | 6°24 | 12°27 | 26°21 | 27°41 | 15°24 | n.a. | M21 |
| T 22 | 21 50 27 | 25°38'06 | 27°53 | 16°44 | 8°40 | 28° 8 | 0°59 | 18°56 | 11°29 | 6°23 | 12°27 | 26°23 | 27°38 | 15°31 | n.a. | T 22 |
| W23 | 21 54 23 | 26°36'51 | 11♉11 | 16° 7 | 9°55 | 28°44 | 0°R59 | 19° 1 | 11°26 | 6°23 | 12°26 | 26°24 | 27°35 | 15°38 | n.a. | W23 |
| T 24 | 21 58 20 | 27°35'39 | 24°47 | 15°38 | 11°10 | 29°20 | 0°59 | 19° 5 | 11°24 | 6°23 | 12°26 | 26°R25 | 27°32 | 15°45 | n.a. | T 24 |
| F 25 | 22 2 16 | 28°34'29 | 8♊42 | 15°19 | 12°24 | 29°56 | 0°58 | 19° 9 | 11°22 | 6°22 | 12°26 | 26°25 | 27°28 | 15°51 | n.a. | F 25 |
| S 26 | 22 6 13 | 29°33'22 | 22°57 | 15°D 9 | 13°39 | 0♋32 | 0°58 | 19°14 | 11°19 | 6°22 | 12°26 | 26°23 | 27°25 | 15°58 | n.a. | S 26 |
| S 27 | 22 10 9 | 0♍32'17 | 7♋29 | 15° 9 | 14°53 | 1° 8 | 0°57 | 19°18 | 11°17 | 6°21 | 12°26 | 26°20 | 27°22 | 16° 5 | n.a. | S 27 |
| M28 | 22 14 6 | 1°31'14 | 22°14 | 15°20 | 16° 8 | 1°43 | 0°56 | 19°22 | 11°15 | 6°21 | 12°25 | 26°17 | 27°19 | 16°11 | n.a. | M28 |
| T 29 | 22 18 3 | 2°30'14 | 7♌ 5 | 15°40 | 17°23 | 2°19 | 0°55 | 19°26 | 11°12 | 6°20 | 12°25 | 26°14 | 27°16 | 16°18 | n.a. | T 29 |
| W30 | 22 21 59 | 3°29'16 | 21°56 | 16°10 | 18°37 | 2°54 | 0°54 | 19°30 | 11°10 | 6°20 | 12°25 | 26°11 | 27°12 | 16°25 | n.a. | W30 |
| T 31 | 22 25 56 | 4♍28'20 | 6♍37 | 16♌49 | 19♍52 | 3♋30 | 0♉52 | 19♊34 | 11♓ 8 | 6♉19 | 12♉25 | 26♍ 9 | 27♍ 9 | 16♏32 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 19n11 | 16n25 | 4s23 | 8n40 | 3s26 | 18n34 | 1n25 | 23n10 | 0n18 | 10n28 | 1s17 | 22n 8 | 0s56 | 7s48 | 0s48 | 12n 1 | 1s53 | 4n46 | 11s30 | 1n 4 | 0n30 | 18s 5 | | | n.a. |
| W 2 | 18 56 | 13 33 | 3 32 | 8 27 | 3 35 | 18 13 | 1 25 | 23 15 | 0 19 | 10 29 | 1 17 | 22 8 | 0 56 | 7 48 | 0 48 | 12 1 | 1 53 | 4 46 | 11 30 | 1 7 | 0 32 | 18 5 | | | n.a. |
| T 3 | 18 42 | 9 50 | 2 28 | 8 16 | 3 44 | 17 51 | 1 25 | 23 20 | 0 20 | 10 30 | 1 18 | 22 9 | 0 56 | 7 49 | 0 48 | 12 1 | 1 53 | 4 46 | 11 30 | 1 9 | 0 33 | 18 4 | | | n.a. |
| F 4 | 18 26 | 5 36 | 1 15 | 8 8 | 3 51 | 17 29 | 1 26 | 23 24 | 0 20 | 10 31 | 1 18 | 22 10 | 0 56 | 7 50 | 0 48 | 12 1 | 1 54 | 4 46 | 11 30 | 1 10 | 0 34 | 18 4 | | | n.a. |
| S 5 | 18 11 | 1 11 | 0 0 | 8 3 | 3 58 | 17 6 | 1 26 | 23 29 | 0 21 | 10 33 | 1 18 | 22 10 | 0 56 | 7 51 | 0 48 | 12 1 | 1 54 | 4 46 | 11 31 | 1 10 | 0 35 | 18 3 | | | n.a. |
| S 6 | 17 55 | 3s 9 | 1n13 | 8 1 | 4 4 | 16 43 | 1 26 | 23 33 | 0 22 | 10 34 | 1 18 | 22 11 | 0 56 | 7 51 | 0 48 | 12 1 | 1 54 | 4 46 | 11 31 | 1 10 | 0 37 | 18 3 | | | n.a. |
| M 7 | 17 39 | 7 11 | 2 19 | 8 2 | 4 9 | 16 19 | 1 26 | 23 37 | 0 23 | 10 35 | 1 18 | 22 11 | 0 56 | 7 52 | 0 48 | 12 1 | 1 54 | 4 46 | 11 31 | 1 10 | 0 38 | 18 2 | | | n.a. |
| T 8 | 17 23 | 10 46 | 3 17 | 8 6 | 4 13 | 15 55 | 1 25 | 23 41 | 0 24 | 10 35 | 1 18 | 22 12 | 0 56 | 7 53 | 0 48 | 12 1 | 1 54 | 4 45 | 11 31 | 1 9 | 0 39 | 18 2 | | | n.a. |
| W 9 | 17 7 | 13 46 | 4 4 | 8 13 | 4 15 | 15 30 | 1 25 | 23 45 | 0 25 | 10 36 | 1 19 | 22 12 | 0 56 | 7 54 | 0 48 | 12 1 | 1 54 | 4 45 | 11 31 | 1 9 | 0 41 | 18 2 | | | n.a. |
| T 10 | 16 50 | 16 5 | 4 39 | 8 25 | 4 16 | 15 5 | 1 25 | 23 48 | 0 25 | 10 37 | 1 19 | 22 13 | 0 56 | 7 55 | 0 48 | 12 1 | 1 54 | 4 45 | 11 32 | 1 10 | 0 42 | 18 1 | | | n.a. |
| F 11 | 16 33 | 17 40 | 5 1 | 8 39 | 4 16 | 14 39 | 1 25 | 23 52 | 0 26 | 10 38 | 1 19 | 22 13 | 0 56 | 7 55 | 0 48 | 12 1 | 1 54 | 4 45 | 11 32 | 1 11 | 0 43 | 18 1 | | | n.a. |
| S 12 | 16 15 | 18 28 | 5 9 | 8 57 | 4 13 | 14 14 | 1 24 | 23 55 | 0 27 | 10 38 | 1 19 | 22 14 | 0 56 | 7 56 | 0 48 | 12 1 | 1 54 | 4 45 | 11 32 | 1 13 | 0 44 | 18 0 | | | n.a. |
| S 13 | 15 58 | 18 27 | 5 5 | 9 19 | 4 9 | 13 47 | 1 24 | 23 58 | 0 28 | 10 39 | 1 19 | 22 14 | 0 56 | 7 57 | 0 48 | 12 1 | 1 54 | 4 45 | 11 32 | 1 16 | 0 46 | 18 0 | | | n.a. |
| M14 | 15 40 | 17 37 | 4 47 | 9 43 | 4 3 | 13 21 | 1 23 | 24 1 | 0 29 | 10 39 | 1 19 | 22 15 | 0 56 | 7 58 | 0 48 | 12 1 | 1 54 | 4 44 | 11 32 | 1 19 | 0 47 | 17 59 | | | n.a. |
| T 15 | 15 21 | 16 1 | 4 16 | 10 11 | 3 55 | 12 54 | 1 23 | 24 3 | 0 30 | 10 40 | 1 20 | 22 15 | 0 56 | 7 59 | 0 48 | 12 1 | 1 54 | 4 44 | 11 33 | 1 22 | 0 48 | 17 59 | | | n.a. |
| W16 | 15 3 | 13 43 | 3 35 | 10 40 | 3 45 | 12 26 | 1 22 | 24 6 | 0 31 | 10 40 | 1 20 | 22 16 | 0 56 | 8 0 | 0 48 | 12 0 | 1 54 | 4 44 | 11 33 | 1 24 | 0 49 | 17 58 | | | n.a. |
| T 17 | 14 44 | 10 48 | 2 43 | 11 12 | 3 33 | 11 59 | 1 21 | 24 8 | 0 31 | 10 40 | 1 20 | 22 16 | 0 56 | 8 0 | 0 48 | 12 0 | 1 54 | 4 44 | 11 33 | 1 26 | 0 51 | 17 58 | | | n.a. |
| F 18 | 14 25 | 7 23 | 1 43 | 11 45 | 3 19 | 11 31 | 1 21 | 24 10 | 0 32 | 10 41 | 1 20 | 22 17 | 0 56 | 8 1 | 0 48 | 12 0 | 1 54 | 4 44 | 11 33 | 1 28 | 0 52 | 17 57 | | | n.a. |
| S 19 | 14 6 | 3 37 | 0 37 | 12 18 | 3 3 | 11 2 | 1 20 | 24 12 | 0 33 | 10 41 | 1 20 | 22 17 | 0 56 | 8 2 | 0 48 | 12 0 | 1 54 | 4 43 | 11 34 | 1 28 | 0 53 | 17 57 | | | n.a. |
| S 20 | 13 47 | 0n22 | 0s32 | 12 52 | 2 46 | 10 34 | 1 19 | 24 14 | 0 34 | 10 41 | 1 21 | 22 17 | 0 56 | 8 3 | 0 48 | 12 0 | 1 54 | 4 43 | 11 34 | 1 28 | 0 55 | 17 56 | | | n.a. |
| M21 | 13 27 | 4 24 | 1 40 | 13 25 | 2 28 | 10 5 | 1 18 | 24 16 | 0 35 | 10 41 | 1 21 | 22 18 | 0 56 | 8 4 | 0 48 | 12 0 | 1 55 | 4 43 | 11 34 | 1 28 | 0 56 | 17 56 | | | n.a. |
| T 22 | 13 7 | 8 17 | 2 44 | 13 56 | 2 9 | 9 36 | 1 17 | 24 17 | 0 36 | 10 41 | 1 21 | 22 18 | 0 56 | 8 5 | 0 48 | 12 0 | 1 55 | 4 43 | 11 34 | 1 27 | 0 57 | 17 55 | | | n.a. |
| W23 | 12 47 | 11 51 | 3 41 | 14 26 | 1 50 | 9 6 | 1 16 | 24 19 | 0 37 | 10 41 | 1 21 | 22 19 | 0 56 | 8 6 | 0 48 | 12 0 | 1 55 | 4 42 | 11 34 | 1 27 | 0 58 | 17 55 | | | n.a. |
| T 24 | 12 26 | 14 51 | 4 27 | 14 53 | 1 30 | 8 36 | 1 15 | 24 20 | 0 38 | 10 40 | 1 21 | 22 19 | 0 56 | 8 7 | 0 48 | 11 59 | 1 55 | 4 42 | 11 35 | 1 26 | 1 0 | 17 54 | | | n.a. |
| F 25 | 12 6 | 17 4 | 4 59 | 15 18 | 1 11 | 8 7 | 1 13 | 24 21 | 0 39 | 10 40 | 1 21 | 22 19 | 0 56 | 8 8 | 0 48 | 11 59 | 1 55 | 4 42 | 11 35 | 1 27 | 1 1 | 17 54 | | | n.a. |
| S 26 | 11 45 | 18 18 | 5 13 | 15 39 | 0 51 | 7 36 | 1 12 | 24 22 | 0 39 | 10 40 | 1 22 | 22 20 | 0 56 | 8 8 | 0 48 | 11 59 | 1 55 | 4 42 | 11 35 | 1 27 | 1 2 | 17 53 | | | n.a. |
| S 27 | 11 24 | 18 22 | 5 8 | 15 57 | 0 33 | 7 6 | 1 11 | 24 22 | 0 40 | 10 39 | 1 22 | 22 20 | 0 56 | 8 9 | 0 48 | 11 59 | 1 55 | 4 41 | 11 35 | 1 28 | 1 4 | 17 53 | | | n.a. |
| M28 | 11 3 | 17 12 | 4 42 | 16 11 | 0 15 | 6 36 | 1 9 | 24 23 | 0 41 | 10 39 | 1 22 | 22 20 | 0 56 | 8 10 | 0 48 | 11 59 | 1 55 | 4 41 | 11 35 | 1 30 | 1 5 | 17 52 | | | n.a. |
| T 29 | 10 42 | 14 52 | 3 58 | 16 21 | 0n 2 | 6 5 | 1 8 | 24 23 | 0 42 | 10 38 | 1 22 | 22 21 | 0 56 | 8 11 | 0 48 | 11 58 | 1 55 | 4 41 | 11 36 | 1 31 | 1 6 | 17 52 | | | n.a. |
| W30 | 10 20 | 11 34 | 2 57 | 16 27 | 0 18 | 5 34 | 1 7 | 24 23 | 0 43 | 10 38 | 1 22 | 22 21 | 0 56 | 8 12 | 0 48 | 11 58 | 1 55 | 4 41 | 11 36 | 1 32 | 1 7 | 17 51 | | | n.a. |
| T 31 | 9n59 | 7n33 | 1s46 | 16n29 | 0n33 | 5n 3 | 1n 5 | 24n23 | 0n44 | 10n37 | 1s22 | 22n21 | 0s56 | 8s13 | 0s48 | 11n58 | 1s55 | 4n40 | 11s36 | 1n33 | 1n 9 | 17s51 | | | n.a. |

Julian Day Number = 1689128.5, Delta T = 03h11m25s
Ecliptic obliquity = 23°42'11, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°17'08, Lahiri = - 5°10'08 Julian Calendar 1 Aug. 89 BCE == Greg. Calendar 30 July 089 BCE

The year -88 astronomical counting style corresponds to year 089 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 89 BCE
# geocentric

## SEPTEMBER 89 BCE (-88) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 22 29 52 | 5♍27'26 | 21♍ 1 | 17♌37 | 21♍ 7 | 4♋ 5 | 0°R50 | 19♊37 | 11°R 5 | 6°R19 | 12°R24 | 26°D 8 | 27♍ 6 | 16♉38 | n.a. | F 1 |
| S 2 | 22 33 49 | 6°26'35 | 5♎ 4 | 18°33 | 22°21 | 4°40 | 0♉48 | 19°41 | 11♓ 3 | 6♉18 | 12♉24 | 26♍ 8 | 27° 3 | 16°45 | n.a. | S 2 |
| S 3 | 22 37 45 | 7°25'45 | 18°43 | 19°36 | 23°36 | 5°15 | 0°46 | 19°44 | 11° 0 | 6°17 | 12°23 | 26° 9 | 27° 0 | 16°52 | n.a. | S 3 |
| M 4 | 22 41 42 | 8°24'57 | 1♏57 | 20°46 | 24°50 | 5°50 | 0°44 | 19°48 | 10°58 | 6°16 | 12°23 | 26°10 | 26°57 | 16°58 | n.a. | M 4 |
| T 5 | 22 45 38 | 9°24'11 | 14°48 | 22° 1 | 26° 5 | 6°25 | 0°41 | 19°51 | 10°55 | 6°16 | 12°23 | 26°12 | 26°53 | 17° 5 | n.a. | T 5 |
| W 6 | 22 49 35 | 10°23'27 | 27°19 | 23°22 | 27°20 | 6°59 | 0°39 | 19°54 | 10°53 | 6°15 | 12°22 | 26°13 | 26°50 | 17°12 | n.a. | W 6 |
| T 7 | 22 53 31 | 11°22'45 | 9♐33 | 24°48 | 28°34 | 7°34 | 0°36 | 19°58 | 10°51 | 6°14 | 12°22 | 26°R13 | 26°47 | 17°19 | n.a. | T 7 |
| F 8 | 22 57 28 | 12°22'05 | 21°35 | 26°17 | 29°49 | 8° 8 | 0°33 | 20° 1 | 10°48 | 6°13 | 12°21 | 26°13 | 26°44 | 17°25 | n.a. | F 8 |
| S 9 | 23 1 25 | 13°21'27 | 3♑30 | 27°49 | 1♎ 4 | 8°43 | 0°29 | 20° 4 | 10°46 | 6°12 | 12°21 | 26°12 | 26°41 | 17°32 | n.a. | S 9 |
| S 10 | 23 5 21 | 14°20'51 | 15°22 | 29°25 | 2°18 | 9°17 | 0°26 | 20° 6 | 10°43 | 6°12 | 12°20 | 26°11 | 26°37 | 17°39 | n.a. | S 10 |
| M11 | 23 9 18 | 15°20'16 | 27°16 | 1♍ 2 | 3°33 | 9°51 | 0°22 | 20° 9 | 10°41 | 6°11 | 12°20 | 26° 9 | 26°34 | 17°45 | n.a. | M11 |
| T 12 | 23 13 14 | 16°19'44 | 9♒14 | 2°42 | 4°47 | 10°25 | 0°18 | 20°12 | 10°38 | 6°10 | 12°19 | 26° 8 | 26°31 | 17°52 | n.a. | T 12 |
| W13 | 23 17 11 | 17°19'13 | 21°20 | 4°22 | 6° 2 | 10°59 | 0°14 | 20°14 | 10°36 | 6° 9 | 12°18 | 26° 6 | 26°28 | 17°59 | n.a. | W13 |
| T 14 | 23 21 7 | 18°18'44 | 3♓36 | 6° 4 | 7°16 | 11°33 | 0°10 | 20°17 | 10°34 | 6° 8 | 12°18 | 26° 5 | 26°25 | 18° 6 | n.a. | T 14 |
| F 15 | 23 25 4 | 19°18'18 | 16° 5 | 7°47 | 8°31 | 12° 7 | 0° 5 | 20°19 | 10°31 | 6° 7 | 12°17 | 26° 5 | 26°22 | 18°12 | n.a. | F 15 |
| S 16 | 23 29 0 | 20°17'53 | 28°45 | 9°30 | 9°46 | 12°41 | 0° 1 | 20°21 | 10°29 | 6° 6 | 12°17 | 26°D 5 | 26°18 | 18°19 | n.a. | S 16 |
| S 17 | 23 32 57 | 21°17'31 | 11♈40 | 11°13 | 11° 0 | 13°14 | 29♈56 | 20°23 | 10°26 | 6° 5 | 12°16 | 26° 5 | 26°15 | 18°26 | n.a. | S 17 |
| M18 | 23 36 54 | 22°17'11 | 24°47 | 12°57 | 12°15 | 13°47 | 29°51 | 20°25 | 10°24 | 6° 3 | 12°15 | 26° 5 | 26°12 | 18°32 | n.a. | M18 |
| T 19 | 23 40 50 | 23°16'53 | 8♉ 8 | 14°40 | 13°29 | 14°21 | 29°46 | 20°27 | 10°22 | 6° 2 | 12°15 | 26° 6 | 26° 9 | 18°39 | n.a. | T 19 |
| W20 | 23 44 47 | 24°16'38 | 21°41 | 16°24 | 14°44 | 14°54 | 29°41 | 20°29 | 10°19 | 6° 1 | 12°14 | 26° 6 | 26° 6 | 18°46 | n.a. | W20 |
| T 21 | 23 48 43 | 25°16'25 | 5♊27 | 18° 7 | 15°58 | 15°27 | 29°35 | 20°31 | 10°17 | 6° 0 | 12°13 | 26° 6 | 26° 3 | 18°53 | n.a. | T 21 |
| F 22 | 23 52 40 | 26°16'14 | 19°24 | 19°50 | 17°13 | 16° 0 | 29°30 | 20°32 | 10°15 | 5°59 | 12°12 | 26° 6 | 25°59 | 18°59 | n.a. | F 22 |
| S 23 | 23 56 36 | 27°16'06 | 3♋32 | 21°33 | 18°27 | 16°32 | 29°24 | 20°34 | 10°12 | 5°58 | 12°12 | 26° 6 | 25°56 | 19° 6 | n.a. | S 23 |
| S 24 | 0 0 33 | 28°16'00 | 17°48 | 23°15 | 19°42 | 17° 5 | 29°18 | 20°35 | 10°10 | 5°56 | 12°11 | 26° 6 | 25°53 | 19°13 | n.a. | S 24 |
| M25 | 0 4 29 | 29°15'56 | 2♌ 9 | 24°57 | 20°56 | 17°37 | 29°12 | 20°36 | 10° 8 | 5°55 | 12°10 | 26° 6 | 25°50 | 19°19 | n.a. | M25 |
| T 26 | 0 8 26 | 0♎15'55 | 16°33 | 26°38 | 22°11 | 18°10 | 29° 6 | 20°37 | 10° 6 | 5°54 | 12° 9 | 26° 7 | 25°47 | 19°26 | n.a. | T 26 |
| W27 | 0 12 22 | 1°15'56 | 0♍56 | 28°19 | 23°25 | 18°42 | 28°59 | 20°38 | 10° 3 | 5°52 | 12° 9 | 26° 7 | 25°43 | 19°33 | n.a. | W27 |
| T 28 | 0 16 19 | 2°15'59 | 15°11 | 29°59 | 24°40 | 19°14 | 28°53 | 20°39 | 10° 1 | 5°51 | 12° 8 | 26° 7 | 25°40 | 19°40 | n.a. | T 28 |
| F 29 | 0 20 16 | 3°16'04 | 29°16 | 1♎39 | 25°55 | 19°46 | 28°46 | 20°40 | 9°59 | 5°50 | 12° 7 | 26°R 8 | 25°37 | 19°46 | n.a. | F 29 |
| S 30 | 0 24 12 | 4♎16'11 | 13♎ 5 | 3♎18 | 27♎ 9 | 20♋18 | 28♈39 | 20♊41 | 9♓57 | 5♉48 | 12♉ 6 | 26♍ 7 | 25♍34 | 19♑53 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 9n37 | 3n10 | 0s28 | 16n28 | 0n47 | 4n32 | 1n 3 | 24n23 | 0n45 | 10n36 | 1s23 | 22n21 | 0s56 | 8s14 | 0s48 | 11n58 | 1s55 | 4n40 | 11s36 | 1n33 | 1n10 | 17s50 | | n.a. |
| S 2 | 9 15 | 1s17 | 0n49 | 16 22 | 0 59 | 4 1 | 1 2 | 24 23 | 0 46 | 10 35 | 1 23 | 22 22 | 0 56 | 8 15 | 0 48 | 11 57 | 1 55 | 4 40 | 11 36 | 1 33 | 1 11 | 17 50 | | n.a. |
| S 3 | 8 53 | 5 33 | 2 2 | 16 12 | 1 10 | 3 29 | 1 0 | 24 23 | 0 47 | 10 35 | 1 23 | 22 22 | 0 56 | 8 16 | 0 48 | 11 57 | 1 55 | 4 40 | 11 37 | 1 33 | 1 12 | 17 49 | | n.a. |
| M 4 | 8 30 | 9 23 | 3 5 | 15 59 | 1 20 | 2 58 | 0 58 | 24 22 | 0 48 | 10 34 | 1 23 | 22 22 | 0 56 | 8 17 | 0 48 | 11 57 | 1 55 | 4 39 | 11 37 | 1 32 | 1 14 | 17 49 | | n.a. |
| T 5 | 8 8 | 12 40 | 3 58 | 15 43 | 1 28 | 2 26 | 0 56 | 24 22 | 0 49 | 10 33 | 1 23 | 22 23 | 0 56 | 8 18 | 0 48 | 11 56 | 1 55 | 4 39 | 11 37 | 1 32 | 1 15 | 17 48 | | n.a. |
| W 6 | 7 45 | 15 17 | 4 37 | 15 23 | 1 35 | 1 54 | 0 55 | 24 21 | 0 50 | 10 31 | 1 23 | 22 23 | 0 56 | 8 19 | 0 48 | 11 56 | 1 55 | 4 39 | 11 37 | 1 31 | 1 16 | 17 48 | | n.a. |
| T 7 | 7 23 | 17 8 | 5 3 | 14 59 | 1 41 | 1 23 | 0 53 | 24 20 | 0 51 | 10 30 | 1 24 | 22 23 | 0 56 | 8 20 | 0 48 | 11 56 | 1 55 | 4 38 | 11 37 | 1 31 | 1 18 | 17 47 | | n.a. |
| F 8 | 7 0 | 18 11 | 5 15 | 14 34 | 1 46 | 0 51 | 0 51 | 24 19 | 0 52 | 10 29 | 1 24 | 22 23 | 0 56 | 8 20 | 0 48 | 11 56 | 1 56 | 4 38 | 11 37 | 1 31 | 1 19 | 17 47 | | n.a. |
| S 9 | 6 37 | 18 26 | 5 14 | 14 5 | 1 50 | 0 19 | 0 49 | 24 17 | 0 53 | 10 28 | 1 24 | 22 23 | 0 56 | 8 21 | 0 48 | 11 55 | 1 56 | 4 38 | 11 38 | 1 32 | 1 20 | 17 46 | | n.a. |
| S 10 | 6 14 | 17 52 | 4 59 | 13 34 | 1 53 | 0s13 | 0 47 | 24 16 | 0 54 | 10 26 | 1 24 | 22 24 | 0 56 | 8 22 | 0 48 | 11 55 | 1 56 | 4 37 | 11 38 | 1 32 | 1 21 | 17 46 | | n.a. |
| M11 | 5 50 | 16 30 | 4 31 | 13 1 | 1 55 | 0 45 | 0 44 | 24 15 | 0 55 | 10 25 | 1 24 | 22 24 | 0 56 | 8 23 | 0 48 | 11 55 | 1 56 | 4 37 | 11 38 | 1 33 | 1 23 | 17 45 | | n.a. |
| T 12 | 5 27 | 14 25 | 3 51 | 12 26 | 1 56 | 1 17 | 0 42 | 24 13 | 0 56 | 10 23 | 1 24 | 22 24 | 0 56 | 8 24 | 0 48 | 11 54 | 1 56 | 4 37 | 11 38 | 1 33 | 1 24 | 17 45 | | n.a. |
| W13 | 5 4 | 11 41 | 3 1 | 11 49 | 1 57 | 1 48 | 0 40 | 24 11 | 0 57 | 10 22 | 1 24 | 22 24 | 0 56 | 8 25 | 0 48 | 11 54 | 1 56 | 4 36 | 11 38 | 1 34 | 1 25 | 17 44 | | n.a. |
| T 14 | 4 40 | 8 25 | 2 1 | 11 11 | 1 56 | 2 20 | 0 38 | 24 9 | 0 58 | 10 20 | 1 24 | 22 24 | 0 56 | 8 26 | 0 48 | 11 53 | 1 56 | 4 36 | 11 39 | 1 34 | 1 26 | 17 43 | | n.a. |
| F 15 | 4 17 | 4 42 | 0 55 | 10 31 | 1 55 | 2 52 | 0 36 | 24 7 | 0 59 | 10 19 | 1 25 | 22 25 | 0 56 | 8 27 | 0 48 | 11 53 | 1 56 | 4 36 | 11 39 | 1 34 | 1 28 | 17 43 | | n.a. |
| S 16 | 3 53 | 0 44 | 0s15 | 9 51 | 1 53 | 3 24 | 0 33 | 24 5 | 1 0 | 10 17 | 1 25 | 22 25 | 0 56 | 8 28 | 0 48 | 11 53 | 1 56 | 4 35 | 11 39 | 1 35 | 1 29 | 17 42 | | n.a. |
| S 17 | 3 29 | 3n21 | 1 25 | 9 9 | 1 51 | 3 56 | 0 31 | 24 3 | 1 1 | 10 15 | 1 25 | 22 25 | 0 56 | 8 29 | 0 48 | 11 52 | 1 56 | 4 35 | 11 39 | 1 34 | 1 30 | 17 42 | | n.a. |
| M18 | 3 6 | 7 20 | 2 33 | 8 26 | 1 48 | 4 27 | 0 29 | 24 0 | 1 2 | 10 13 | 1 25 | 22 25 | 0 56 | 8 30 | 0 48 | 11 52 | 1 56 | 4 35 | 11 39 | 1 34 | 1 32 | 17 41 | | n.a. |
| T 19 | 2 42 | 11 1 | 3 33 | 7 43 | 1 45 | 4 59 | 0 26 | 23 58 | 1 3 | 10 11 | 1 25 | 22 25 | 0 56 | 8 31 | 0 48 | 11 51 | 1 56 | 4 34 | 11 39 | 1 34 | 1 33 | 17 41 | | n.a. |
| W20 | 2 18 | 14 10 | 4 22 | 6 59 | 1 42 | 5 30 | 0 24 | 23 55 | 1 4 | 10 9 | 1 25 | 22 25 | 0 56 | 8 31 | 0 48 | 11 51 | 1 56 | 4 34 | 11 39 | 1 34 | 1 34 | 17 40 | | n.a. |
| T 21 | 1 54 | 16 35 | 4 57 | 6 14 | 1 37 | 6 1 | 0 21 | 23 52 | 1 5 | 10 7 | 1 25 | 22 25 | 0 56 | 8 32 | 0 48 | 11 51 | 1 56 | 4 34 | 11 40 | 1 34 | 1 35 | 17 40 | | n.a. |
| F 22 | 1 30 | 18 2 | 5 15 | 5 30 | 1 33 | 6 33 | 0 19 | 23 50 | 1 6 | 10 5 | 1 25 | 22 25 | 0 56 | 8 33 | 0 48 | 11 50 | 1 56 | 4 33 | 11 40 | 1 34 | 1 37 | 17 39 | | n.a. |
| S 23 | 1 6 | 18 25 | 5 15 | 4 44 | 1 28 | 7 4 | 0 16 | 23 47 | 1 7 | 10 3 | 1 25 | 22 26 | 0 56 | 8 34 | 0 48 | 11 50 | 1 56 | 4 33 | 11 40 | 1 34 | 1 38 | 17 38 | | n.a. |
| S 24 | 0 42 | 17 38 | 4 55 | 3 59 | 1 23 | 7 35 | 0 14 | 23 44 | 1 8 | 10 1 | 1 25 | 22 26 | 0 56 | 8 35 | 0 48 | 11 49 | 1 56 | 4 33 | 11 40 | 1 34 | 1 39 | 17 38 | | n.a. |
| M25 | 0 18 | 15 44 | 4 17 | 3 13 | 1 18 | 8 5 | 0 11 | 23 40 | 1 9 | 9 59 | 1 25 | 22 26 | 0 56 | 8 36 | 0 48 | 11 49 | 1 56 | 4 32 | 11 40 | 1 34 | 1 41 | 17 37 | | n.a. |
| T 26 | 0s 6 | 12 50 | 3 22 | 2 28 | 1 13 | 8 36 | 0 9 | 23 37 | 1 10 | 9 56 | 1 26 | 22 26 | 0 56 | 8 37 | 0 48 | 11 48 | 1 56 | 4 32 | 11 40 | 1 34 | 1 42 | 17 37 | | n.a. |
| W27 | 0 31 | 9 9 | 2 15 | 1 42 | 1 7 | 9 6 | 0 6 | 23 34 | 1 12 | 9 54 | 1 26 | 22 26 | 0 56 | 8 37 | 0 48 | 11 48 | 1 56 | 4 31 | 11 40 | 1 34 | 1 43 | 17 36 | | n.a. |
| T 28 | 0 55 | 4 58 | 1 0 | 0 56 | 1 1 | 9 36 | 0 3 | 23 30 | 1 13 | 9 52 | 1 26 | 22 26 | 0 56 | 8 38 | 0 48 | 11 47 | 1 56 | 4 31 | 11 41 | 1 33 | 1 44 | 17 35 | | n.a. |
| F 29 | 1 19 | 0 34 | 0n17 | 0 11 | 0 55 | 10 6 | 0 1 | 23 27 | 1 14 | 9 49 | 1 26 | 22 26 | 0 56 | 8 39 | 0 48 | 11 47 | 1 56 | 4 31 | 11 41 | 1 33 | 1 46 | 17 35 | | n.a. |
| S 30 | 1s43 | 3s48 | 1n33 | 0s35 | 0n49 | 10s36 | 0s 2 | 23n23 | 1n15 | 9n47 | 1s26 | 22n26 | 0s56 | 8s40 | 0s48 | 11n46 | 1s56 | 4n30 | 11s41 | 1n34 | 1n47 | 17s34 | | n.a. |

Julian Day Number = 1689159.5, Delta T = 03h11m24s
Ecliptic obliquity = 23°42'12, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°17'04, Lahiri = - 5°10'03 Julian Calendar 1 Sept. 89 BCE == Greg. Calendar 30 Aug. 089 BCE

The year -88 astronomical counting style corresponds to year 089 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 89 BCE
# geocentric

## OCTOBER 89 BCE (-88) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 0 28 9 | 5♎16'20 | 26♎36 | 4♎57 | 28♎24 | 20♋49 | 28°R33 | 20♊41 | 9°R55 | 5°R47 | 12°R 5 | 26°R 6 | 25♍31 | 20♑ 0 | n.a. | S 1 |
| M 2 | 0 32 5 | 6°16'30 | 9♏47 | 6°36 | 29°38 | 21°21 | 28♈26 | 20°42 | 9♓53 | 5♉45 | 12♉ 4 | 26♍ 5 | 25°28 | 20° 6 | n.a. | M 2 |
| T 3 | 0 36 2 | 7°16'43 | 22°38 | 8°13 | 0♏52 | 21°52 | 28°18 | 20°42 | 9°51 | 5°44 | 12° 3 | 26° 4 | 25°24 | 20°13 | n.a. | T 3 |
| W 4 | 0 39 58 | 8°16'57 | 5♐11 | 9°51 | 2° 7 | 22°23 | 28°11 | 20°42 | 9°49 | 5°43 | 12° 2 | 26° 2 | 25°21 | 20°20 | n.a. | W 4 |
| T 5 | 0 43 55 | 9°17'13 | 17°27 | 11°28 | 3°21 | 22°54 | 28° 4 | 20°R42 | 9°47 | 5°41 | 12° 1 | 26° 1 | 25°18 | 20°26 | n.a. | T 5 |
| F 6 | 0 47 51 | 10°17'31 | 29°31 | 13° 4 | 4°36 | 23°25 | 27°56 | 20°42 | 9°45 | 5°40 | 12° 0 | 26° 0 | 25°15 | 20°33 | n.a. | F 6 |
| S 7 | 0 51 48 | 11°17'50 | 11♑26 | 14°40 | 5°50 | 23°56 | 27°49 | 20°42 | 9°43 | 5°38 | 12° 0 | 25°D59 | 25°12 | 20°40 | n.a. | S 7 |
| S 8 | 0 55 45 | 12°18'11 | 23°18 | 16°16 | 7° 5 | 24°26 | 27°41 | 20°42 | 9°41 | 5°37 | 11°59 | 26° 0 | 25° 8 | 20°47 | n.a. | S 8 |
| M 9 | 0 59 41 | 13°18'33 | 5♒12 | 17°51 | 8°19 | 24°56 | 27°34 | 20°42 | 9°39 | 5°35 | 11°58 | 26° 1 | 25° 5 | 20°53 | n.a. | M 9 |
| T 10 | 1 3 38 | 14°18'57 | 17°11 | 19°26 | 9°34 | 25°26 | 27°26 | 20°41 | 9°37 | 5°34 | 11°57 | 26° 2 | 25° 2 | 21° 0 | n.a. | T 10 |
| W11 | 1 7 34 | 15°19'23 | 29°20 | 21° 1 | 10°48 | 25°56 | 27°18 | 20°40 | 9°35 | 5°32 | 11°56 | 26° 4 | 24°59 | 21° 7 | n.a. | W11 |
| T 12 | 1 11 31 | 16°19'49 | 11♓44 | 22°35 | 12° 2 | 26°26 | 27°10 | 20°40 | 9°33 | 5°30 | 11°55 | 26° 5 | 24°56 | 21°13 | n.a. | T 12 |
| F 13 | 1 15 27 | 17°20'18 | 24°24 | 24° 9 | 13°17 | 26°56 | 27° 2 | 20°39 | 9°31 | 5°29 | 11°54 | 26°R 6 | 24°53 | 21°20 | n.a. | F 13 |
| S 14 | 1 19 24 | 18°20'48 | 7♈22 | 25°43 | 14°31 | 27°25 | 26°54 | 20°38 | 9°30 | 5°27 | 11°53 | 26° 5 | 24°49 | 21°27 | n.a. | S 14 |
| S 15 | 1 23 20 | 19°21'19 | 20°38 | 27°16 | 15°45 | 27°54 | 26°46 | 20°37 | 9°28 | 5°26 | 11°51 | 26° 4 | 24°46 | 21°34 | n.a. | S 15 |
| M16 | 1 27 17 | 20°21'53 | 4♉12 | 28°49 | 17° 0 | 28°23 | 26°38 | 20°36 | 9°26 | 5°24 | 11°50 | 26° 1 | 24°43 | 21°40 | n.a. | M16 |
| T 17 | 1 31 13 | 21°22'28 | 18° 1 | 0♏22 | 18°14 | 28°52 | 26°30 | 20°35 | 9°25 | 5°22 | 11°49 | 25°57 | 24°40 | 21°47 | n.a. | T 17 |
| W18 | 1 35 10 | 22°23'05 | 2♊ 1 | 1°54 | 19°28 | 29°21 | 26°22 | 20°33 | 9°23 | 5°21 | 11°48 | 25°53 | 24°37 | 21°54 | n.a. | W18 |
| T 19 | 1 39 7 | 23°23'43 | 16° 9 | 3°26 | 20°42 | 29°49 | 26°14 | 20°32 | 9°21 | 5°19 | 11°47 | 25°49 | 24°34 | 22° 0 | n.a. | T 19 |
| F 20 | 1 43 3 | 24°24'24 | 0♋21 | 4°58 | 21°57 | 0♌17 | 26° 5 | 20°30 | 9°20 | 5°17 | 11°46 | 25°46 | 24°30 | 22° 7 | n.a. | F 20 |
| S 21 | 1 47 0 | 25°25'06 | 14°34 | 6°30 | 23°11 | 0°45 | 25°57 | 20°28 | 9°18 | 5°16 | 11°45 | 25°45 | 24°27 | 22°14 | n.a. | S 21 |
| S 22 | 1 50 56 | 26°25'50 | 28°45 | 8° 2 | 24°25 | 1°13 | 25°49 | 20°27 | 9°17 | 5°14 | 11°44 | 25°D44 | 24°24 | 22°21 | n.a. | S 22 |
| M23 | 1 54 53 | 27°26'36 | 12♌52 | 9°33 | 25°39 | 1°41 | 25°41 | 20°25 | 9°16 | 5°12 | 11°43 | 25°45 | 24°21 | 22°27 | n.a. | M23 |
| T 24 | 1 58 49 | 28°27'23 | 26°53 | 11° 4 | 26°54 | 2° 8 | 25°33 | 20°23 | 9°14 | 5°11 | 11°42 | 25°46 | 24°18 | 22°34 | n.a. | T 24 |
| W25 | 2 2 46 | 29°28'12 | 10♍48 | 12°34 | 28° 8 | 2°35 | 25°25 | 20°21 | 9°13 | 5° 9 | 11°41 | 25°48 | 24°14 | 22°41 | n.a. | W25 |
| T 26 | 2 6 42 | 0♏29'03 | 24°35 | 14° 5 | 29°22 | 3° 2 | 25°16 | 20°18 | 9°12 | 5° 7 | 11°39 | 25°R49 | 24°11 | 22°47 | n.a. | T 26 |
| F 27 | 2 10 39 | 1°29'55 | 8♎12 | 15°35 | 0♐36 | 3°28 | 25° 8 | 20°16 | 9°10 | 5° 6 | 11°38 | 25°48 | 24° 8 | 22°54 | n.a. | F 27 |
| S 28 | 2 14 36 | 2°30'48 | 21°38 | 17° 5 | 1°50 | 3°55 | 25° 0 | 20°14 | 9° 9 | 5° 4 | 11°37 | 25°45 | 24° 5 | 23° 1 | n.a. | S 28 |
| S 29 | 2 18 32 | 3°31'43 | 4♏52 | 18°34 | 3° 4 | 4°21 | 24°52 | 20°11 | 9° 8 | 5° 2 | 11°36 | 25°41 | 24° 2 | 23° 7 | n.a. | S 29 |
| M30 | 2 22 29 | 4°32'40 | 17°50 | 20° 3 | 4°19 | 4°47 | 24°44 | 20° 8 | 9° 7 | 5° 0 | 11°35 | 25°35 | 23°59 | 23°14 | n.a. | M30 |
| T 31 | 2 26 25 | 5♏33'37 | 0♐34 | 21♏32 | 5♐33 | 5♌12 | 24♈36 | 20♊ 6 | 9♓ 6 | 4♉59 | 11♉34 | 25♍27 | 23♍55 | 23♑21 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| S 1 | 2s 7 | 7s52 | 2n41 | 1s20 | 0n43 | 11s 5 | 0s 5 | 23n19 | 1n16 | 9n44 | 1s26 | 22n26 | 0s56 | 8s41 | 0s48 | 11n46 | 1s56 | 4n30 | 11s41 | 1n34 | 1n48 | 17s34 | | | n.a. |
| M 2 | 2 31 | 11 27 | 3 39 | 2 5 | 0 36 | 11 35 | 0 7 | 23 16 | 1 17 | 9 42 | 1 26 | 22 26 | 0 56 | 8 41 | 0 48 | 11 45 | 1 57 | 4 30 | 11 41 | 1 34 | 1 49 | 17 33 | | | n.a. |
| T 3 | 2 55 | 14 22 | 4 24 | 2 50 | 0 30 | 12 4 | 0 10 | 23 12 | 1 18 | 9 39 | 1 26 | 22 26 | 0 57 | 8 42 | 0 48 | 11 45 | 1 57 | 4 29 | 11 41 | 1 35 | 1 51 | 17 32 | | | n.a. |
| W 4 | 3 19 | 16 33 | 4 56 | 3 35 | 0 24 | 12 32 | 0 13 | 23 8 | 1 20 | 9 37 | 1 26 | 22 26 | 0 57 | 8 43 | 0 48 | 11 44 | 1 57 | 4 29 | 11 41 | 1 36 | 1 52 | 17 32 | | | n.a. |
| T 5 | 3 43 | 17 55 | 5 13 | 4 19 | 0 17 | 13 1 | 0 15 | 23 4 | 1 21 | 9 34 | 1 26 | 22 26 | 0 57 | 8 44 | 0 48 | 11 44 | 1 57 | 4 28 | 11 41 | 1 36 | 1 53 | 17 31 | | | n.a. |
| F 6 | 4 7 | 18 26 | 5 16 | 5 3 | 0 10 | 13 29 | 0 18 | 23 0 | 1 22 | 9 31 | 1 26 | 22 26 | 0 57 | 8 44 | 0 48 | 11 43 | 1 57 | 4 28 | 11 41 | 1 37 | 1 55 | 17 31 | | | n.a. |
| S 7 | 4 31 | 18 8 | 5 5 | 5 47 | 0 4 | 13 56 | 0 21 | 22 55 | 1 23 | 9 29 | 1 26 | 22 26 | 0 57 | 8 45 | 0 48 | 11 43 | 1 57 | 4 28 | 11 42 | 1 37 | 1 56 | 17 30 | | | n.a. |
| S 8 | 4 55 | 17 3 | 4 41 | 6 31 | 0s 3 | 14 24 | 0 23 | 22 51 | 1 24 | 9 26 | 1 26 | 22 26 | 0 57 | 8 46 | 0 48 | 11 42 | 1 57 | 4 27 | 11 42 | 1 37 | 1 57 | 17 29 | | | n.a. |
| M 9 | 5 19 | 15 13 | 4 5 | 7 14 | 0 9 | 14 51 | 0 26 | 22 47 | 1 26 | 9 23 | 1 26 | 22 26 | 0 57 | 8 47 | 0 48 | 11 42 | 1 57 | 4 27 | 11 42 | 1 36 | 1 58 | 17 29 | | | n.a. |
| T 10 | 5 42 | 12 42 | 3 19 | 7 56 | 0 16 | 15 17 | 0 29 | 22 42 | 1 27 | 9 20 | 1 26 | 22 26 | 0 57 | 8 47 | 0 48 | 11 41 | 1 57 | 4 27 | 11 42 | 1 36 | 2 0 | 17 28 | | | n.a. |
| W11 | 6 6 | 9 37 | 2 22 | 8 38 | 0 23 | 15 44 | 0 32 | 22 38 | 1 28 | 9 18 | 1 26 | 22 26 | 0 57 | 8 48 | 0 48 | 11 41 | 1 57 | 4 26 | 11 42 | 1 35 | 2 1 | 17 28 | | | n.a. |
| T 12 | 6 29 | 6 2 | 1 18 | 9 20 | 0 29 | 16 9 | 0 34 | 22 33 | 1 29 | 9 15 | 1 26 | 22 26 | 0 57 | 8 49 | 0 48 | 11 40 | 1 57 | 4 26 | 11 42 | 1 34 | 2 2 | 17 27 | | | n.a. |
| F 13 | 6 53 | 2 6 | 0 9 | 10 1 | 0 36 | 16 35 | 0 37 | 22 29 | 1 30 | 9 12 | 1 26 | 22 26 | 0 57 | 8 49 | 0 48 | 11 40 | 1 57 | 4 26 | 11 42 | 1 34 | 2 3 | 17 26 | | | n.a. |
| S 14 | 7 16 | 2n 1 | 1s 2 | 10 42 | 0 42 | 17 0 | 0 40 | 22 24 | 1 32 | 9 9 | 1 26 | 22 26 | 0 57 | 8 50 | 0 48 | 11 39 | 1 57 | 4 25 | 11 42 | 1 34 | 2 5 | 17 26 | | | n.a. |
| S 15 | 7 39 | 6 8 | 2 11 | 11 22 | 0 48 | 17 25 | 0 42 | 22 20 | 1 33 | 9 6 | 1 26 | 22 26 | 0 57 | 8 51 | 0 48 | 11 38 | 1 57 | 4 25 | 11 42 | 1 35 | 2 6 | 17 25 | | | n.a. |
| M16 | 8 3 | 10 1 | 3 14 | 12 1 | 0 55 | 17 49 | 0 45 | 22 15 | 1 34 | 9 3 | 1 26 | 22 26 | 0 57 | 8 51 | 0 48 | 11 38 | 1 57 | 4 24 | 11 42 | 1 36 | 2 7 | 17 24 | | | n.a. |
| T 17 | 8 25 | 13 25 | 4 8 | 12 40 | 1 1 | 18 12 | 0 47 | 22 10 | 1 36 | 9 0 | 1 25 | 22 25 | 0 57 | 8 52 | 0 48 | 11 37 | 1 57 | 4 24 | 11 42 | 1 37 | 2 9 | 17 24 | | | n.a. |
| W18 | 8 48 | 16 7 | 4 47 | 13 18 | 1 7 | 18 36 | 0 50 | 22 5 | 1 37 | 8 58 | 1 25 | 22 25 | 0 57 | 8 52 | 0 48 | 11 37 | 1 57 | 4 24 | 11 42 | 1 39 | 2 10 | 17 23 | | | n.a. |
| T 19 | 9 11 | 17 51 | 5 9 | 13 56 | 1 13 | 18 58 | 0 53 | 22 1 | 1 38 | 8 55 | 1 25 | 22 25 | 0 57 | 8 53 | 0 48 | 11 36 | 1 57 | 4 23 | 11 42 | 1 41 | 2 11 | 17 22 | | | n.a. |
| F 20 | 9 34 | 18 30 | 5 12 | 14 33 | 1 18 | 19 21 | 0 55 | 21 56 | 1 40 | 8 52 | 1 25 | 22 25 | 0 56 | 8 53 | 0 48 | 11 36 | 1 57 | 4 23 | 11 42 | 1 42 | 2 12 | 17 22 | | | n.a. |
| S 21 | 9 56 | 17 59 | 4 57 | 15 9 | 1 24 | 19 42 | 0 58 | 21 51 | 1 41 | 8 49 | 1 25 | 22 25 | 0 56 | 8 54 | 0 48 | 11 35 | 1 57 | 4 23 | 11 42 | 1 43 | 2 14 | 17 21 | | | n.a. |
| S 22 | 10 18 | 16 21 | 4 23 | 15 45 | 1 30 | 20 3 | 1 0 | 21 46 | 1 42 | 8 46 | 1 25 | 22 25 | 0 56 | 8 55 | 0 48 | 11 35 | 1 57 | 4 22 | 11 43 | 1 43 | 2 15 | 17 20 | | | n.a. |
| M23 | 10 41 | 13 44 | 3 33 | 16 20 | 1 35 | 20 24 | 1 3 | 21 41 | 1 44 | 8 43 | 1 25 | 22 25 | 0 56 | 8 55 | 0 48 | 11 34 | 1 57 | 4 22 | 11 43 | 1 42 | 2 16 | 17 20 | | | n.a. |
| T 24 | 11 3 | 10 19 | 2 31 | 16 54 | 1 40 | 20 44 | 1 5 | 21 36 | 1 45 | 8 40 | 1 25 | 22 25 | 0 56 | 8 56 | 0 48 | 11 33 | 1 57 | 4 22 | 11 43 | 1 42 | 2 17 | 17 19 | | | n.a. |
| W25 | 11 24 | 6 21 | 1 21 | 17 27 | 1 45 | 21 4 | 1 8 | 21 32 | 1 46 | 8 37 | 1 25 | 22 25 | 0 56 | 8 56 | 0 47 | 11 33 | 1 57 | 4 21 | 11 43 | 1 41 | 2 19 | 17 18 | | | n.a. |
| T 26 | 11 46 | 2 4 | 0 7 | 17 59 | 1 50 | 21 23 | 1 10 | 21 27 | 1 48 | 8 34 | 1 25 | 22 24 | 0 56 | 8 56 | 0 47 | 11 32 | 1 57 | 4 21 | 11 43 | 1 41 | 2 20 | 17 18 | | | n.a. |
| F 27 | 12 7 | 2s16 | 1n 7 | 18 30 | 1 54 | 21 41 | 1 12 | 21 22 | 1 49 | 8 32 | 1 24 | 22 24 | 0 56 | 8 57 | 0 47 | 11 32 | 1 57 | 4 21 | 11 43 | 1 41 | 2 21 | 17 17 | | | n.a. |
| S 28 | 12 29 | 6 26 | 2 16 | 19 1 | 1 59 | 21 59 | 1 15 | 21 17 | 1 51 | 8 29 | 1 24 | 22 24 | 0 56 | 8 57 | 0 47 | 11 31 | 1 57 | 4 20 | 11 43 | 1 42 | 2 23 | 17 16 | | | n.a. |
| S 29 | 12 50 | 10 12 | 3 16 | 19 30 | 2 3 | 22 16 | 1 17 | 21 12 | 1 52 | 8 26 | 1 24 | 22 24 | 0 56 | 8 58 | 0 47 | 11 31 | 1 57 | 4 20 | 11 43 | 1 44 | 2 24 | 17 16 | | | n.a. |
| M30 | 13 11 | 13 25 | 4 5 | 19 58 | 2 6 | 22 32 | 1 19 | 21 7 | 1 54 | 8 23 | 1 24 | 22 24 | 0 56 | 8 58 | 0 47 | 11 30 | 1 57 | 4 19 | 11 43 | 1 47 | 2 25 | 17 15 | | | n.a. |
| T 31 | 13s31 | 15s55 | 4n41 | 20s26 | 2s10 | 22s48 | 1s21 | 21n 2 | 1n55 | 8n20 | 1s24 | 22n24 | 0s56 | 8s58 | 0s47 | 11n29 | 1s57 | 4n19 | 11s43 | 1n50 | 2n26 | 17s14 | | | n.a. |

Julian Day Number = 1689189.5, Delta T = 03h11m23s
Ecliptic obliquity = 23°42'12, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°17'00, Lahiri = - 5°09'59 Julian Calendar 1 Oct. 89 BCE == Greg. Calendar 29 Sept. 089 BCE

The year -88 astronomical counting style corresponds to year 089 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 89 BCE
# geocentric

## NOVEMBER 89 BCE (-88) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 2 30 22 | 6♏34'36 | 13♐ 2 | 23♏ 0 | 6♐47 | 5♑37 | 24°R28 | 20°R 3 | 9°R 5 | 4°R57 | 11°R33 | 25°R20 | 23♍52 | 23♉28 | n.a. | W 1 |
| T 2 | 2 34 18 | 7°35'35 | 25°17 | 24°28 | 8° 1 | 6° 2 | 24♈21 | 20♊ 0 | 9♓ 4 | 4♉55 | 11♉32 | 25♍12 | 23°49 | 23°34 | n.a. | T 2 |
| F 3 | 2 38 15 | 8°36'35 | 7♉20 | 25°55 | 9°15 | 6°27 | 24°13 | 19°57 | 9° 3 | 4°54 | 11°30 | 25° 6 | 23°46 | 23°41 | n.a. | F 3 |
| S 4 | 2 42 11 | 9°37'37 | 19°15 | 27°21 | 10°29 | 6°52 | 24° 5 | 19°54 | 9° 2 | 4°52 | 11°29 | 25° 2 | 23°43 | 23°48 | n.a. | S 4 |
| S 5 | 2 46 8 | 10°38'39 | 1♒ 6 | 28°46 | 11°43 | 7°16 | 23°58 | 19°51 | 9° 2 | 4°50 | 11°28 | 24°59 | 23°40 | 23°54 | n.a. | S 5 |
| M 6 | 2 50 5 | 11°39'41 | 12°57 | 0♐10 | 12°57 | 7°39 | 23°50 | 19°47 | 9° 1 | 4°49 | 11°27 | 24°D59 | 23°36 | 24° 1 | n.a. | M 6 |
| T 7 | 2 54 1 | 12°40'45 | 24°54 | 1°33 | 14°11 | 8° 3 | 23°43 | 19°44 | 9° 0 | 4°47 | 11°26 | 24°59 | 23°33 | 24° 8 | n.a. | T 7 |
| W 8 | 2 57 58 | 13°41'49 | 7♓ 2 | 2°54 | 15°25 | 8°26 | 23°36 | 19°41 | 8°59 | 4°45 | 11°25 | 25° 1 | 23°30 | 24°15 | n.a. | W 8 |
| T 9 | 3 1 54 | 14°42'54 | 19°26 | 4°14 | 16°39 | 8°49 | 23°29 | 19°37 | 8°59 | 4°44 | 11°23 | 25°R 2 | 23°27 | 24°21 | n.a. | T 9 |
| F 10 | 3 5 51 | 15°43'59 | 2♈11 | 5°31 | 17°53 | 9°12 | 23°22 | 19°33 | 8°58 | 4°42 | 11°22 | 25° 2 | 23°24 | 24°28 | n.a. | F 10 |
| S 11 | 3 9 47 | 16°45'05 | 15°18 | 6°47 | 19° 6 | 9°34 | 23°15 | 19°30 | 8°58 | 4°40 | 11°21 | 25° 0 | 23°20 | 24°35 | n.a. | S 11 |
| S 12 | 3 13 44 | 17°46'11 | 28°51 | 8° 0 | 20°20 | 9°56 | 23° 8 | 19°26 | 8°57 | 4°39 | 11°20 | 24°55 | 23°17 | 24°41 | n.a. | S 12 |
| M13 | 3 17 40 | 18°47'19 | 12♉47 | 9°10 | 21°34 | 10°17 | 23° 1 | 19°22 | 8°57 | 4°37 | 11°19 | 24°49 | 23°14 | 24°48 | n.a. | M13 |
| T 14 | 3 21 37 | 19°48'27 | 27° 3 | 10°16 | 22°48 | 10°39 | 22°55 | 19°18 | 8°57 | 4°35 | 11°18 | 24°40 | 23°11 | 24°55 | n.a. | T 14 |
| W15 | 3 25 34 | 20°49'35 | 11♊33 | 11°18 | 24° 1 | 10°59 | 22°48 | 19°14 | 8°56 | 4°34 | 11°17 | 24°31 | 23° 8 | 25° 1 | n.a. | W15 |
| T 16 | 3 29 30 | 21°50'45 | 26°11 | 12°15 | 25°15 | 11°20 | 22°42 | 19°10 | 8°56 | 4°32 | 11°16 | 24°21 | 23° 5 | 25° 8 | n.a. | T 16 |
| F 17 | 3 33 27 | 22°51'55 | 10♋48 | 13° 7 | 26°29 | 11°40 | 22°36 | 19° 6 | 8°56 | 4°30 | 11°14 | 24°13 | 23° 1 | 25°15 | n.a. | F 17 |
| S 18 | 3 37 23 | 23°53'06 | 25°20 | 13°53 | 27°42 | 12° 0 | 22°30 | 19° 2 | 8°56 | 4°29 | 11°13 | 24° 8 | 22°58 | 25°22 | n.a. | S 18 |
| S 19 | 3 41 20 | 24°54'18 | 9♌40 | 14°32 | 28°56 | 12°19 | 22°24 | 18°58 | 8°55 | 4°27 | 11°12 | 24° 4 | 22°55 | 25°28 | n.a. | S 19 |
| M20 | 3 45 16 | 25°55'31 | 23°47 | 15° 3 | 0♉ 9 | 12°38 | 22°19 | 18°53 | 8°D55 | 4°26 | 11°11 | 24°D 3 | 22°52 | 25°35 | n.a. | M20 |
| T 21 | 3 49 13 | 26°56'44 | 7♍39 | 15°25 | 1°23 | 12°56 | 22°13 | 18°49 | 8°55 | 4°24 | 11°10 | 24° 4 | 22°49 | 25°42 | n.a. | T 21 |
| W22 | 3 53 10 | 27°57'58 | 21°17 | 15°38 | 2°36 | 13°15 | 22° 8 | 18°44 | 8°55 | 4°23 | 11° 9 | 24°R 4 | 22°45 | 25°48 | n.a. | W22 |
| T 23 | 3 57 6 | 28°59'13 | 4♎41 | 15°R40 | 3°50 | 13°32 | 22° 3 | 18°40 | 8°56 | 4°21 | 11° 8 | 24° 4 | 22°42 | 25°55 | n.a. | T 23 |
| F 24 | 4 1 3 | 0♐ 0'28 | 17°54 | 15°31 | 5° 3 | 13°49 | 21°58 | 18°35 | 8°56 | 4°20 | 11° 7 | 24° 1 | 22°39 | 26° 2 | n.a. | F 24 |
| S 25 | 4 4 59 | 1° 1'43 | 0♏56 | 15°10 | 6°17 | 14° 6 | 21°53 | 18°31 | 8°56 | 4°18 | 11° 6 | 23°56 | 22°36 | 26° 8 | n.a. | S 25 |
| S 26 | 4 8 56 | 2° 3'00 | 13°47 | 14°37 | 7°30 | 14°22 | 21°48 | 18°26 | 8°56 | 4°17 | 11° 5 | 23°48 | 22°33 | 26°15 | n.a. | S 26 |
| M27 | 4 12 52 | 3° 4'16 | 26°28 | 13°53 | 8°43 | 14°38 | 21°44 | 18°21 | 8°57 | 4°15 | 11° 3 | 23°36 | 22°30 | 26°22 | n.a. | M27 |
| T 28 | 4 16 49 | 4° 5'33 | 8♐58 | 12°58 | 9°57 | 14°53 | 21°39 | 18°17 | 8°57 | 4°14 | 11° 2 | 23°23 | 22°26 | 26°29 | n.a. | T 28 |
| W29 | 4 20 45 | 5° 6'50 | 21°17 | 11°54 | 11°10 | 15° 8 | 21°35 | 18°12 | 8°57 | 4°12 | 11° 1 | 23°10 | 22°23 | 26°35 | n.a. | W29 |
| T 30 | 4 24 42 | 6♐ 8'06 | 3♉25 | 10♐41 | 12♉23 | 15♑23 | 21♈32 | 18♊ 7 | 8♓58 | 4♉11 | 11♉ 0 | 22♍56 | 22♍20 | 26♉42 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 13s52 | 17s37 | 5n 2 | 20s52 | 2s13 | 23s 3 | 1s23 | 20n57 | 1n57 | 8n18 | 1s24 | 22n23 | 0s56 | 8s59 | 0s47 | 11n29 | 1s57 | 4n19 | 11s43 | 1n53 | 2n28 | 17s14 | | n.a. |
| T 2 | 14 12 | 18 28 | 5 9 | 21 17 | 2 15 | 23 18 | 1 26 | 20 53 | 1 58 | 8 15 | 1 23 | 22 23 | 0 56 | 8 59 | 0 47 | 11 28 | 1 57 | 4 19 | 11 43 | 1 56 | 2 29 | 17 13 | | n.a. |
| F 3 | 14 32 | 18 28 | 5 2 | 21 40 | 2 18 | 23 31 | 1 28 | 20 48 | 2 0 | 8 12 | 1 23 | 22 23 | 0 56 | 8 59 | 0 47 | 11 28 | 1 57 | 4 18 | 11 43 | 1 58 | 2 30 | 17 12 | | n.a. |
| S 4 | 14 51 | 17 39 | 4 42 | 22 3 | 2 19 | 23 45 | 1 30 | 20 43 | 2 1 | 8 10 | 1 23 | 22 23 | 0 56 | 9 0 | 0 47 | 11 27 | 1 57 | 4 18 | 11 43 | 2 0 | 2 31 | 17 12 | | n.a. |
| S 5 | 15 11 | 16 4 | 4 10 | 22 24 | 2 21 | 23 57 | 1 32 | 20 38 | 2 3 | 8 7 | 1 23 | 22 23 | 0 56 | 9 0 | 0 47 | 11 27 | 1 57 | 4 18 | 11 42 | 2 1 | 2 33 | 17 11 | | n.a. |
| M 6 | 15 30 | 13 48 | 3 27 | 22 43 | 2 22 | 24 9 | 1 33 | 20 34 | 2 4 | 8 4 | 1 23 | 22 22 | 0 56 | 9 0 | 0 47 | 11 26 | 1 57 | 4 17 | 11 42 | 2 1 | 2 34 | 17 10 | | n.a. |
| T 7 | 15 49 | 10 56 | 2 35 | 23 1 | 2 22 | 24 20 | 1 35 | 20 29 | 2 6 | 8 2 | 1 22 | 22 22 | 0 56 | 9 0 | 0 47 | 11 25 | 1 57 | 4 17 | 11 42 | 2 1 | 2 35 | 17 9 | | n.a. |
| W 8 | 16 7 | 7 33 | 1 36 | 23 17 | 2 22 | 24 30 | 1 37 | 20 24 | 2 8 | 7 59 | 1 22 | 22 22 | 0 56 | 9 1 | 0 47 | 11 25 | 1 57 | 4 17 | 11 42 | 2 0 | 2 37 | 17 9 | | n.a. |
| T 9 | 16 26 | 3 46 | 0 30 | 23 32 | 2 21 | 24 40 | 1 39 | 20 20 | 2 9 | 7 57 | 1 22 | 22 22 | 0 56 | 9 1 | 0 47 | 11 24 | 1 57 | 4 16 | 11 42 | 2 0 | 2 38 | 17 8 | | n.a. |
| F 10 | 16 44 | 0n17 | 0s38 | 23 45 | 2 20 | 24 49 | 1 40 | 20 15 | 2 11 | 7 54 | 1 22 | 22 21 | 0 56 | 9 1 | 0 47 | 11 24 | 1 57 | 4 16 | 11 42 | 2 0 | 2 39 | 17 7 | | n.a. |
| S 11 | 17 2 | 4 27 | 1 47 | 23 57 | 2 18 | 24 57 | 1 42 | 20 11 | 2 12 | 7 52 | 1 22 | 22 21 | 0 56 | 9 1 | 0 47 | 11 23 | 1 57 | 4 16 | 11 42 | 2 1 | 2 40 | 17 7 | | n.a. |
| S 12 | 17 19 | 8 31 | 2 51 | 24 6 | 2 15 | 25 4 | 1 44 | 20 6 | 2 14 | 7 50 | 1 21 | 22 21 | 0 56 | 9 1 | 0 47 | 11 23 | 1 57 | 4 16 | 11 42 | 2 2 | 2 42 | 17 6 | | n.a. |
| M13 | 17 36 | 12 14 | 3 47 | 24 13 | 2 11 | 25 11 | 1 45 | 20 2 | 2 16 | 7 47 | 1 21 | 22 21 | 0 56 | 9 1 | 0 47 | 11 22 | 1 57 | 4 15 | 11 42 | 2 5 | 2 43 | 17 5 | | n.a. |
| T 14 | 17 53 | 15 19 | 4 31 | 24 19 | 2 6 | 25 17 | 1 46 | 19 58 | 2 18 | 7 45 | 1 21 | 22 20 | 0 56 | 9 2 | 0 47 | 11 22 | 1 57 | 4 15 | 11 42 | 2 8 | 2 44 | 17 4 | | n.a. |
| W15 | 18 9 | 17 31 | 4 57 | 24 22 | 2 1 | 25 22 | 1 48 | 19 54 | 2 19 | 7 43 | 1 21 | 22 20 | 0 56 | 9 2 | 0 47 | 11 21 | 1 57 | 4 15 | 11 42 | 2 12 | 2 45 | 17 4 | | n.a. |
| T 16 | 18 26 | 18 34 | 5 5 | 24 24 | 1 54 | 25 26 | 1 49 | 19 50 | 2 21 | 7 41 | 1 20 | 22 20 | 0 56 | 9 2 | 0 47 | 11 21 | 1 57 | 4 14 | 11 42 | 2 16 | 2 47 | 17 3 | | n.a. |
| F 17 | 18 42 | 18 24 | 4 52 | 24 23 | 1 46 | 25 30 | 1 50 | 19 46 | 2 23 | 7 39 | 1 20 | 22 20 | 0 56 | 9 2 | 0 47 | 11 20 | 1 57 | 4 14 | 11 42 | 2 19 | 2 48 | 17 2 | | n.a. |
| S 18 | 18 57 | 17 2 | 4 21 | 24 19 | 1 37 | 25 32 | 1 51 | 19 42 | 2 25 | 7 37 | 1 20 | 22 19 | 0 56 | 9 2 | 0 47 | 11 20 | 1 57 | 4 14 | 11 42 | 2 21 | 2 49 | 17 2 | | n.a. |
| S 19 | 19 12 | 14 35 | 3 34 | 24 14 | 1 27 | 25 34 | 1 52 | 19 38 | 2 26 | 7 35 | 1 20 | 22 19 | 0 56 | 9 2 | 0 47 | 11 19 | 1 57 | 4 14 | 11 42 | 2 23 | 2 50 | 17 1 | | n.a. |
| M20 | 19 27 | 11 19 | 2 34 | 24 6 | 1 15 | 25 36 | 1 53 | 19 34 | 2 28 | 7 33 | 1 19 | 22 19 | 0 55 | 9 2 | 0 46 | 11 19 | 1 57 | 4 13 | 11 41 | 2 23 | 2 52 | 17 0 | | n.a. |
| T 21 | 19 41 | 7 28 | 1 27 | 23 55 | 1 2 | 25 36 | 1 54 | 19 31 | 2 30 | 7 31 | 1 19 | 22 18 | 0 55 | 9 2 | 0 46 | 11 18 | 1 57 | 4 13 | 11 41 | 2 23 | 2 53 | 16 59 | | n.a. |
| W22 | 19 55 | 3 16 | 0 15 | 23 42 | 0 48 | 25 36 | 1 55 | 19 27 | 2 32 | 7 30 | 1 19 | 22 18 | 0 55 | 9 2 | 0 46 | 11 18 | 1 56 | 4 13 | 11 41 | 2 23 | 2 54 | 16 59 | | n.a. |
| T 23 | 20 9 | 1s 1 | 0n56 | 23 27 | 0 32 | 25 35 | 1 56 | 19 24 | 2 34 | 7 28 | 1 19 | 22 18 | 0 55 | 9 2 | 0 46 | 11 17 | 1 56 | 4 13 | 11 41 | 2 23 | 2 56 | 16 58 | | n.a. |
| F 24 | 20 23 | 5 12 | 2 3 | 23 9 | 0 15 | 25 33 | 1 57 | 19 20 | 2 36 | 7 26 | 1 18 | 22 17 | 0 55 | 9 1 | 0 46 | 11 17 | 1 56 | 4 13 | 11 41 | 2 24 | 2 57 | 16 57 | | n.a. |
| S 25 | 20 35 | 9 5 | 3 3 | 22 49 | 0n 3 | 25 30 | 1 57 | 19 17 | 2 38 | 7 25 | 1 18 | 22 17 | 0 55 | 9 1 | 0 46 | 11 16 | 1 56 | 4 12 | 11 41 | 2 26 | 2 58 | 16 56 | | n.a. |
| S 26 | 20 48 | 12 28 | 3 52 | 22 26 | 0 22 | 25 27 | 1 58 | 19 14 | 2 39 | 7 23 | 1 18 | 22 17 | 0 55 | 9 1 | 0 46 | 11 16 | 1 56 | 4 12 | 11 41 | 2 29 | 2 59 | 16 56 | | n.a. |
| M27 | 21 0 | 15 14 | 4 29 | 22 1 | 0 42 | 25 22 | 1 58 | 19 11 | 2 41 | 7 22 | 1 17 | 22 16 | 0 55 | 9 1 | 0 46 | 11 15 | 1 56 | 4 12 | 11 41 | 2 34 | 3 1 | 16 55 | | n.a. |
| T 28 | 21 12 | 17 14 | 4 52 | 21 35 | 1 2 | 25 18 | 1 58 | 19 9 | 2 43 | 7 21 | 1 17 | 22 16 | 0 55 | 9 1 | 0 46 | 11 15 | 1 56 | 4 12 | 11 41 | 2 39 | 3 2 | 16 54 | | n.a. |
| W29 | 21 23 | 18 25 | 5 1 | 21 6 | 1 22 | 25 12 | 1 59 | 19 6 | 2 45 | 7 19 | 1 17 | 22 16 | 0 55 | 9 1 | 0 46 | 11 14 | 1 56 | 4 12 | 11 40 | 2 45 | 3 3 | 16 53 | | n.a. |
| T 30 | 21s34 | 18s44 | 4n56 | 20s37 | 1n42 | 25s 5 | 1s59 | 19n 4 | 2n47 | 7n18 | 1s16 | 22n15 | 0s55 | 9s 0 | 0s46 | 11n14 | 1s56 | 4n11 | 11s40 | 2n50 | 3n 4 | 16s52 | | n.a. |

Julian Day Number = 1689220.5, Delta T = 03h11m22s
Ecliptic obliquity = 23°42'12, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°16'55, Lahiri = - 5°09'55 Julian Calendar 1 Nov. 89 BCE == Greg. Calendar 30 Oct. 089 BCE

The year -88 astronomical counting style corresponds to year 089 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 89 BCE
# geocentric

## DECEMBER 89 BCE (-88) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 4 28 39 | 7♐ 9'23 | 15♑25 | 9°R23 | 13♑36 | 15♌36 | 21°R28 | 18°R 2 | 8♓58 | 4°R10 | 10°R59 | 22°R44 | 22♍17 | 26♑49 | n.a. | F 1 |
| S 2 | 4 32 35 | 8°10'40 | 27°17 | 8♐ 2 | 14°49 | 15°50 | 21♈24 | 17♊57 | 8°59 | 4♉ 8 | 10♉58 | 22♍35 | 22°14 | 26°55 | n.a. | S 2 |
| S 3 | 4 36 32 | 9°11'56 | 9♒ 6 | 6°41 | 16° 2 | 16° 2 | 21°21 | 17°53 | 9° 0 | 4° 7 | 10°57 | 22°28 | 22°11 | 27° 2 | n.a. | S 3 |
| M 4 | 4 40 28 | 10°13'12 | 20°55 | 5°22 | 17°15 | 16°15 | 21°18 | 17°48 | 9° 0 | 4° 6 | 10°56 | 22°24 | 22° 7 | 27° 9 | n.a. | M 4 |
| T 5 | 4 44 25 | 11°14'27 | 2♓49 | 4° 8 | 18°28 | 16°26 | 21°15 | 17°43 | 9° 1 | 4° 4 | 10°55 | 22°23 | 22° 4 | 27°15 | n.a. | T 5 |
| W 6 | 4 48 21 | 12°15'42 | 14°53 | 3° 0 | 19°41 | 16°37 | 21°12 | 17°38 | 9° 2 | 4° 3 | 10°54 | 22°D22 | 22° 1 | 27°22 | n.a. | W 6 |
| T 7 | 4 52 18 | 13°16'57 | 27°13 | 2° 1 | 20°53 | 16°48 | 21°10 | 17°33 | 9° 3 | 4° 2 | 10°53 | 22°R22 | 21°58 | 27°29 | n.a. | T 7 |
| F 8 | 4 56 14 | 14°18'11 | 9♈54 | 1°10 | 22° 6 | 16°58 | 21° 8 | 17°28 | 9° 3 | 4° 1 | 10°52 | 22°21 | 21°55 | 27°36 | n.a. | F 8 |
| S 9 | 5 0 11 | 15°19'25 | 23° 1 | 0°30 | 23°19 | 17° 7 | 21° 6 | 17°23 | 9° 4 | 3°59 | 10°52 | 22°18 | 21°51 | 27°42 | n.a. | S 9 |
| S 10 | 5 4 8 | 16°20'38 | 6♉36 | 29♏59 | 24°31 | 17°16 | 21° 4 | 17°18 | 9° 5 | 3°58 | 10°51 | 22°13 | 21°48 | 27°49 | n.a. | S 10 |
| M11 | 5 8 4 | 17°21'50 | 20°41 | 29°40 | 25°44 | 17°24 | 21° 2 | 17°13 | 9° 6 | 3°57 | 10°50 | 22° 4 | 21°45 | 27°56 | n.a. | M11 |
| T 12 | 5 12 1 | 18°23'02 | 5♊12 | 29°29 | 26°56 | 17°31 | 21° 0 | 17° 8 | 9° 7 | 3°56 | 10°49 | 21°54 | 21°42 | 28° 2 | n.a. | T 12 |
| W13 | 5 15 57 | 19°24'14 | 20° 3 | 29°D27 | 28° 8 | 17°38 | 20°59 | 17° 3 | 9° 9 | 3°55 | 10°48 | 21°42 | 21°39 | 28° 9 | n.a. | W13 |
| T 14 | 5 19 54 | 20°25'25 | 5♋ 6 | 29°34 | 29°21 | 17°44 | 20°58 | 16°58 | 9°10 | 3°54 | 10°47 | 21°30 | 21°36 | 28°16 | n.a. | T 14 |
| F 15 | 5 23 50 | 21°26'35 | 20°11 | 29°49 | 0♒33 | 17°50 | 20°57 | 16°53 | 9°11 | 3°53 | 10°46 | 21°19 | 21°32 | 28°22 | n.a. | F 15 |
| S 16 | 5 27 47 | 22°27'46 | 5♌ 7 | 0♐10 | 1°45 | 17°55 | 20°57 | 16°48 | 9°12 | 3°52 | 10°45 | 21°11 | 21°29 | 28°29 | n.a. | S 16 |
| S 17 | 5 31 44 | 23°28'56 | 19°47 | 0°39 | 2°57 | 17°59 | 20°56 | 16°43 | 9°14 | 3°51 | 10°45 | 21° 6 | 21°26 | 28°36 | n.a. | S 17 |
| M18 | 5 35 40 | 24°30'05 | 4♍ 7 | 1°13 | 4° 9 | 18° 2 | 20°56 | 16°38 | 9°15 | 3°50 | 10°44 | 21° 4 | 21°23 | 28°43 | n.a. | M18 |
| T 19 | 5 39 37 | 25°31'14 | 18° 5 | 1°53 | 5°21 | 18° 5 | 20°D56 | 16°34 | 9°16 | 3°49 | 10°43 | 21° 3 | 21°20 | 28°49 | n.a. | T 19 |
| W20 | 5 43 33 | 26°32'23 | 1♎41 | 2°37 | 6°32 | 18° 7 | 20°56 | 16°29 | 9°18 | 3°48 | 10°42 | 21° 3 | 21°17 | 28°56 | n.a. | W20 |
| T 21 | 5 47 30 | 27°33'31 | 14°57 | 3°26 | 7°44 | 18° 8 | 20°57 | 16°24 | 9°19 | 3°47 | 10°42 | 21° 2 | 21°13 | 29° 3 | n.a. | T 21 |
| F 22 | 5 51 26 | 28°34'38 | 27°56 | 4°18 | 8°55 | 18°R 9 | 20°57 | 16°19 | 9°21 | 3°46 | 10°41 | 20°59 | 21°10 | 29° 9 | n.a. | F 22 |
| S 23 | 5 55 23 | 29°35'45 | 10♏42 | 5°14 | 10° 7 | 18° 9 | 20°58 | 16°14 | 9°23 | 3°45 | 10°40 | 20°54 | 21° 7 | 29°16 | n.a. | S 23 |
| S 24 | 5 59 19 | 0♑36'52 | 23°15 | 6°14 | 11°18 | 18° 8 | 20°59 | 16°10 | 9°24 | 3°45 | 10°39 | 20°45 | 21° 4 | 29°23 | n.a. | S 24 |
| M25 | 6 3 16 | 1°37'58 | 5♐38 | 7°16 | 12°30 | 18° 6 | 21° 0 | 16° 5 | 9°26 | 3°44 | 10°39 | 20°33 | 21° 1 | 29°29 | n.a. | M25 |
| T 26 | 6 7 13 | 2°39'03 | 17°53 | 8°21 | 13°41 | 18° 4 | 21° 1 | 16° 0 | 9°28 | 3°43 | 10°38 | 20°20 | 20°57 | 29°36 | n.a. | T 26 |
| W27 | 6 11 9 | 3°40'07 | 0♑ 0 | 9°28 | 14°52 | 18° 0 | 21° 3 | 15°56 | 9°30 | 3°42 | 10°37 | 20° 5 | 20°54 | 29°43 | n.a. | W27 |
| T 28 | 6 15 6 | 4°41'10 | 12° 0 | 10°37 | 16° 3 | 17°56 | 21° 5 | 15°51 | 9°31 | 3°42 | 10°37 | 19°51 | 20°51 | 29°49 | n.a. | T 28 |
| F 29 | 6 19 2 | 5°42'12 | 23°55 | 11°48 | 17°14 | 17°51 | 21° 7 | 15°46 | 9°33 | 3°41 | 10°36 | 19°38 | 20°48 | 29°56 | n.a. | F 29 |
| S 30 | 6 22 59 | 6°43'13 | 5♒45 | 13° 1 | 18°24 | 17°46 | 21° 9 | 15°42 | 9°35 | 3°41 | 10°36 | 19°28 | 20°45 | 0♒ 3 | n.a. | S 30 |
| S 31 | 6 26 55 | 7♑44'13 | 17♒33 | 14♐16 | 19♒35 | 17♌39 | 21♈12 | 15♊38 | 9♓37 | 3♉40 | 10♉35 | 19♍20 | 20♍42 | 0♒10 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 21s45 | 18s12 | 4n38 | 20s 8 | 2n 0 | 24s58 | 1s59 | 19n 2 | 2n49 | 7n17 | 1s16 | 22n15 | 0s55 | 9s 0 | 0s46 | 11n13 | 1s56 | 4n11 | 11s40 | 2n55 | 3n 6 | 16s52 | | n.a. |
| S 2 | 21 55 | 16 52 | 4 8 | 19 38 | 2 17 | 24 50 | 1 59 | 18 59 | 2 51 | 7 16 | 1 16 | 22 15 | 0 55 | 9 0 | 0 46 | 11 13 | 1 56 | 4 11 | 11 40 | 2 59 | 3 7 | 16 51 | | n.a. |
| S 3 | 22 4 | 14 50 | 3 28 | 19 10 | 2 32 | 24 41 | 1 59 | 18 57 | 2 53 | 7 15 | 1 16 | 22 14 | 0 55 | 9 0 | 0 46 | 11 13 | 1 56 | 4 11 | 11 40 | 3 1 | 3 8 | 16 50 | | n.a. |
| M 4 | 22 14 | 12 11 | 2 38 | 18 44 | 2 45 | 24 32 | 1 58 | 18 56 | 2 56 | 7 14 | 1 15 | 22 14 | 0 54 | 8 59 | 0 46 | 11 12 | 1 56 | 4 11 | 11 40 | 3 3 | 3 9 | 16 49 | | n.a. |
| T 5 | 22 22 | 9 0 | 1 42 | 18 20 | 2 55 | 24 22 | 1 58 | 18 54 | 2 58 | 7 13 | 1 15 | 22 14 | 0 54 | 8 59 | 0 46 | 11 12 | 1 56 | 4 11 | 11 39 | 3 3 | 3 11 | 16 49 | | n.a. |
| W 6 | 22 31 | 5 24 | 0 40 | 17 59 | 3 4 | 24 11 | 1 58 | 18 53 | 3 0 | 7 13 | 1 15 | 22 13 | 0 54 | 8 59 | 0 46 | 11 11 | 1 56 | 4 11 | 11 39 | 3 3 | 3 12 | 16 48 | | n.a. |
| T 7 | 22 39 | 1 30 | 0s26 | 17 42 | 3 9 | 23 59 | 1 57 | 18 51 | 3 2 | 7 12 | 1 14 | 22 13 | 0 54 | 8 58 | 0 46 | 11 11 | 1 56 | 4 10 | 11 39 | 3 3 | 3 13 | 16 47 | | n.a. |
| F 8 | 22 46 | 2n34 | 1 31 | 17 28 | 3 13 | 23 47 | 1 57 | 18 50 | 3 4 | 7 11 | 1 14 | 22 13 | 0 54 | 8 58 | 0 46 | 11 11 | 1 56 | 4 10 | 11 39 | 3 4 | 3 15 | 16 46 | | n.a. |
| S 9 | 22 53 | 6 39 | 2 35 | 17 19 | 3 14 | 23 34 | 1 56 | 18 50 | 3 6 | 7 11 | 1 14 | 22 12 | 0 54 | 8 58 | 0 46 | 11 10 | 1 56 | 4 10 | 11 39 | 3 5 | 3 16 | 16 45 | | n.a. |
| S 10 | 23 0 | 10 33 | 3 31 | 17 13 | 3 14 | 23 21 | 1 55 | 18 49 | 3 8 | 7 10 | 1 13 | 22 12 | 0 54 | 8 57 | 0 46 | 11 10 | 1 56 | 4 10 | 11 39 | 3 7 | 3 17 | 16 45 | | n.a. |
| M11 | 23 6 | 13 59 | 4 17 | 17 11 | 3 12 | 23 6 | 1 54 | 18 48 | 3 10 | 7 10 | 1 13 | 22 11 | 0 54 | 8 57 | 0 46 | 11 10 | 1 56 | 4 10 | 11 38 | 3 11 | 3 18 | 16 44 | | n.a. |
| T 12 | 23 11 | 16 41 | 4 48 | 17 12 | 3 8 | 22 51 | 1 54 | 18 48 | 3 13 | 7 10 | 1 13 | 22 11 | 0 54 | 8 56 | 0 46 | 11 9 | 1 56 | 4 10 | 11 38 | 3 15 | 3 20 | 16 43 | | n.a. |
| W13 | 23 16 | 18 20 | 5 0 | 17 16 | 3 3 | 22 36 | 1 52 | 18 48 | 3 15 | 7 10 | 1 12 | 22 11 | 0 53 | 8 56 | 0 46 | 11 9 | 1 56 | 4 10 | 11 38 | 3 20 | 3 21 | 16 42 | | n.a. |
| T 14 | 23 21 | 18 45 | 4 52 | 17 23 | 2 58 | 22 20 | 1 51 | 18 48 | 3 17 | 7 10 | 1 12 | 22 10 | 0 53 | 8 55 | 0 46 | 11 9 | 1 56 | 4 10 | 11 38 | 3 25 | 3 22 | 16 41 | | n.a. |
| F 15 | 23 25 | 17 50 | 4 23 | 17 33 | 2 51 | 22 3 | 1 50 | 18 49 | 3 19 | 7 10 | 1 12 | 22 10 | 0 53 | 8 55 | 0 45 | 11 8 | 1 55 | 4 10 | 11 38 | 3 29 | 3 23 | 16 41 | | n.a. |
| S 16 | 23 29 | 15 41 | 3 37 | 17 45 | 2 44 | 21 45 | 1 49 | 18 49 | 3 22 | 7 10 | 1 11 | 22 10 | 0 53 | 8 54 | 0 45 | 11 8 | 1 55 | 4 10 | 11 37 | 3 32 | 3 25 | 16 40 | | n.a. |
| S 17 | 23 32 | 12 33 | 2 37 | 17 58 | 2 36 | 21 27 | 1 47 | 18 50 | 3 24 | 7 10 | 1 11 | 22 9 | 0 53 | 8 54 | 0 45 | 11 8 | 1 55 | 4 10 | 11 37 | 3 34 | 3 26 | 16 39 | | n.a. |
| M18 | 23 35 | 8 44 | 1 28 | 18 13 | 2 28 | 21 9 | 1 46 | 18 51 | 3 26 | 7 10 | 1 11 | 22 9 | 0 53 | 8 53 | 0 45 | 11 8 | 1 55 | 4 10 | 11 37 | 3 35 | 3 27 | 16 38 | | n.a. |
| T 19 | 23 38 | 4 31 | 0 16 | 18 30 | 2 19 | 20 49 | 1 44 | 18 53 | 3 28 | 7 10 | 1 11 | 22 8 | 0 53 | 8 53 | 0 45 | 11 7 | 1 55 | 4 10 | 11 37 | 3 35 | 3 28 | 16 37 | | n.a. |
| W20 | 23 39 | 0 11 | 0n56 | 18 47 | 2 10 | 20 30 | 1 42 | 18 54 | 3 31 | 7 11 | 1 10 | 22 8 | 0 53 | 8 52 | 0 45 | 11 7 | 1 55 | 4 10 | 11 37 | 3 35 | 3 30 | 16 36 | | n.a. |
| T 21 | 23 41 | 4s 4 | 2 3 | 19 5 | 2 1 | 20 9 | 1 41 | 18 56 | 3 33 | 7 11 | 1 10 | 22 8 | 0 53 | 8 51 | 0 45 | 11 7 | 1 55 | 4 10 | 11 36 | 3 35 | 3 31 | 16 36 | | n.a. |
| F 22 | 23 42 | 8 2 | 3 2 | 19 24 | 1 52 | 19 49 | 1 39 | 18 58 | 3 35 | 7 12 | 1 10 | 22 7 | 0 52 | 8 51 | 0 45 | 11 7 | 1 55 | 4 10 | 11 36 | 3 37 | 3 32 | 16 35 | | n.a. |
| S 23 | 23 42 | 11 33 | 3 50 | 19 44 | 1 43 | 19 27 | 1 37 | 19 0 | 3 38 | 7 12 | 1 9 | 22 7 | 0 52 | 8 50 | 0 45 | 11 6 | 1 55 | 4 10 | 11 36 | 3 39 | 3 34 | 16 34 | | n.a. |
| S 24 | 23 42 | 14 29 | 4 27 | 20 3 | 1 33 | 19 5 | 1 34 | 19 3 | 3 40 | 7 13 | 1 9 | 22 7 | 0 52 | 8 50 | 0 45 | 11 6 | 1 55 | 4 10 | 11 36 | 3 42 | 3 35 | 16 33 | | n.a. |
| M25 | 23 42 | 16 43 | 4 50 | 20 23 | 1 24 | 18 43 | 1 32 | 19 5 | 3 42 | 7 14 | 1 9 | 22 6 | 0 52 | 8 49 | 0 45 | 11 6 | 1 55 | 4 10 | 11 35 | 3 47 | 3 36 | 16 32 | | n.a. |
| T 26 | 23 41 | 18 10 | 5 0 | 20 42 | 1 15 | 18 20 | 1 30 | 19 8 | 3 44 | 7 14 | 1 8 | 22 6 | 0 52 | 8 48 | 0 45 | 11 6 | 1 55 | 4 10 | 11 35 | 3 52 | 3 37 | 16 31 | | n.a. |
| W27 | 23 39 | 18 46 | 4 56 | 21 2 | 1 6 | 17 57 | 1 28 | 19 11 | 3 47 | 7 15 | 1 8 | 22 6 | 0 52 | 8 47 | 0 45 | 11 6 | 1 55 | 4 10 | 11 35 | 3 58 | 3 39 | 16 31 | | n.a. |
| T 28 | 23 37 | 18 32 | 4 39 | 21 21 | 0 57 | 17 33 | 1 25 | 19 15 | 3 49 | 7 16 | 1 8 | 22 5 | 0 52 | 8 47 | 0 45 | 11 5 | 1 55 | 4 10 | 11 35 | 4 4 | 3 40 | 16 30 | | n.a. |
| F 29 | 23 35 | 17 28 | 4 9 | 21 40 | 0 48 | 17 9 | 1 22 | 19 18 | 3 51 | 7 17 | 1 7 | 22 5 | 0 51 | 8 46 | 0 45 | 11 5 | 1 55 | 4 10 | 11 34 | 4 9 | 3 41 | 16 29 | | n.a. |
| S 30 | 23 32 | 15 40 | 3 29 | 21 58 | 0 39 | 16 44 | 1 20 | 19 22 | 3 53 | 7 18 | 1 7 | 22 5 | 0 51 | 8 45 | 0 45 | 11 5 | 1 55 | 4 10 | 11 34 | 4 13 | 3 42 | 16 28 | | n.a. |
| S 31 | 23s28 | 13s12 | 2n40 | 22s16 | 0n30 | 16s19 | 1s17 | 19n27 | 3n56 | 7n20 | 1s 7 | 22n 4 | 0s51 | 8s44 | 0s45 | 11n 5 | 1s55 | 4n10 | 11s34 | 4n16 | 3n44 | 16s27 | | n.a. |

Julian Day Number = 1689250.5, Delta T = 03h11m21s
Ecliptic obliquity = 23°42'11, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°16'51, Lahiri = - 5°09'51 Julian Calendar 1 Dec. 89 BCE == Greg. Calendar 29 Nov. 089 BCE

The year -88 astronomical counting style corresponds to year 089 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 88 BCE
# geocentric

## JANUARY 88 BCE (-87) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 6 30 52 | 8♉45'11 | 29♒22 | 15♐32 | 20♒45 | 17°R32 | 21♈14 | 15°R33 | 9♓39 | 3°R40 | 10°R34 | 19°R16 | 20♍38 | 0♒16 | n.a. | M 1 |
| T 2 | 6 34 48 | 9°46'08 | 11♓15 | 16°50 | 21°56 | 17♌24 | 21°17 | 15♊29 | 9°41 | 3♉39 | 10♉34 | 19♍14 | 20°35 | 0°23 | n.a. | T 2 |
| W 3 | 6 38 45 | 10°47'03 | 23°18 | 18° 9 | 23° 6 | 17°15 | 21°20 | 15°25 | 9°43 | 3°39 | 10°33 | 19°D14 | 20°32 | 0°30 | n.a. | W 3 |
| T 4 | 6 42 42 | 11°47'57 | 5♈34 | 19°29 | 24°16 | 17° 5 | 21°23 | 15°20 | 9°45 | 3°38 | 10°33 | 19°R14 | 20°29 | 0°36 | n.a. | T 4 |
| F 5 | 6 46 38 | 12°48'50 | 18°10 | 20°51 | 25°26 | 16°55 | 21°27 | 15°16 | 9°48 | 3°38 | 10°32 | 19°14 | 20°26 | 0°43 | n.a. | F 5 |
| S 6 | 6 50 35 | 13°49'40 | 1♉10 | 22°13 | 26°36 | 16°44 | 21°30 | 15°12 | 9°50 | 3°37 | 10°32 | 19°12 | 20°23 | 0°50 | n.a. | S 6 |
| S 7 | 6 54 31 | 14°50'30 | 14°39 | 23°37 | 27°45 | 16°32 | 21°34 | 15° 8 | 9°52 | 3°37 | 10°32 | 19° 9 | 20°19 | 0°56 | n.a. | S 7 |
| M 8 | 6 58 28 | 15°51'17 | 28°37 | 25° 2 | 28°55 | 16°19 | 21°38 | 15° 4 | 9°54 | 3°37 | 10°31 | 19° 3 | 20°16 | 1° 3 | n.a. | M 8 |
| T 9 | 7 2 24 | 16°52'03 | 13♊ 6 | 26°27 | 0♓ 4 | 16° 6 | 21°42 | 15° 0 | 9°57 | 3°37 | 10°31 | 18°54 | 20°13 | 1°10 | n.a. | T 9 |
| W10 | 7 6 21 | 17°52'48 | 28° 0 | 27°54 | 1°13 | 15°51 | 21°46 | 14°57 | 9°59 | 3°36 | 10°30 | 18°45 | 20°10 | 1°16 | n.a. | W10 |
| T 11 | 7 10 17 | 18°53'31 | 13♋11 | 29°22 | 2°22 | 15°36 | 21°51 | 14°53 | 10° 1 | 3°36 | 10°30 | 18°35 | 20° 7 | 1°23 | n.a. | T 11 |
| F 12 | 7 14 14 | 19°54'12 | 28°30 | 0♉50 | 3°31 | 15°21 | 21°56 | 14°49 | 10° 4 | 3°36 | 10°30 | 18°27 | 20° 3 | 1°30 | n.a. | F 12 |
| S 13 | 7 18 11 | 20°54'52 | 13♌44 | 2°20 | 4°40 | 15° 4 | 22° 0 | 14°46 | 10° 6 | 3°36 | 10°29 | 18°20 | 20° 0 | 1°37 | n.a. | S 13 |
| S 14 | 7 22 7 | 21°55'30 | 28°44 | 3°50 | 5°48 | 14°47 | 22° 6 | 14°42 | 10° 9 | 3°36 | 10°29 | 18°16 | 19°57 | 1°43 | n.a. | S 14 |
| M15 | 7 26 4 | 22°56'07 | 13♍23 | 5°22 | 6°56 | 14°30 | 22°11 | 14°39 | 10°11 | 3°36 | 10°29 | 18°D15 | 19°54 | 1°50 | n.a. | M15 |
| T 16 | 7 30 0 | 23°56'43 | 27°36 | 6°54 | 8° 4 | 14°11 | 22°16 | 14°36 | 10°14 | 3°D36 | 10°29 | 18°15 | 19°51 | 1°57 | n.a. | T 16 |
| W17 | 7 33 57 | 24°57'17 | 11♎22 | 8°27 | 9°12 | 13°53 | 22°22 | 14°33 | 10°17 | 3°36 | 10°28 | 18°16 | 19°48 | 2° 3 | n.a. | W17 |
| T 18 | 7 37 53 | 25°57'50 | 24°42 | 10° 1 | 10°20 | 13°33 | 22°27 | 14°30 | 10°19 | 3°36 | 10°28 | 18°R17 | 19°44 | 2°10 | n.a. | T 18 |
| F 19 | 7 41 50 | 26°58'22 | 7♏41 | 11°36 | 11°27 | 13°13 | 22°33 | 14°27 | 10°22 | 3°36 | 10°28 | 18°16 | 19°41 | 2°17 | n.a. | F 19 |
| S 20 | 7 45 46 | 27°58'52 | 20°20 | 13°12 | 12°35 | 12°52 | 22°39 | 14°24 | 10°25 | 3°36 | 10°28 | 18°13 | 19°38 | 2°23 | n.a. | S 20 |
| S 21 | 7 49 43 | 28°59'21 | 2♐45 | 14°48 | 13°42 | 12°31 | 22°46 | 14°21 | 10°27 | 3°36 | 10°28 | 18° 9 | 19°35 | 2°30 | n.a. | S 21 |
| M22 | 7 53 40 | 29°59'48 | 14°57 | 16°26 | 14°48 | 12°10 | 22°52 | 14°18 | 10°30 | 3°36 | 10°28 | 18° 2 | 19°32 | 2°37 | n.a. | M22 |
| T 23 | 7 57 36 | 1♒ 0'14 | 27° 1 | 18° 5 | 15°55 | 11°48 | 22°59 | 14°16 | 10°33 | 3°37 | 10°28 | 17°53 | 19°29 | 2°43 | n.a. | T 23 |
| W24 | 8 1 33 | 2° 0'38 | 8♉59 | 19°44 | 17° 1 | 11°26 | 23° 5 | 14°13 | 10°36 | 3°37 | 10°28 | 17°44 | 19°25 | 2°50 | n.a. | W24 |
| T 25 | 8 5 29 | 3° 1'01 | 20°52 | 21°25 | 18° 8 | 11° 3 | 23°12 | 14°11 | 10°39 | 3°37 | 10°28 | 17°35 | 19°22 | 2°57 | n.a. | T 25 |
| F 26 | 8 9 26 | 4° 1'21 | 2♒42 | 23° 6 | 19°13 | 10°40 | 23°19 | 14° 8 | 10°42 | 3°37 | 10°D28 | 17°27 | 19°19 | 3° 3 | n.a. | F 26 |
| S 27 | 8 13 22 | 5° 1'40 | 14°32 | 24°49 | 20°19 | 10°17 | 23°26 | 14° 6 | 10°44 | 3°38 | 10°28 | 17°20 | 19°16 | 3°10 | n.a. | S 27 |
| S 28 | 8 17 19 | 6° 1'57 | 26°22 | 26°32 | 21°24 | 9°53 | 23°34 | 14° 4 | 10°47 | 3°38 | 10°28 | 17°16 | 19°13 | 3°17 | n.a. | S 28 |
| M29 | 8 21 15 | 7° 2'12 | 8♓14 | 28°17 | 22°30 | 9°30 | 23°41 | 14° 2 | 10°50 | 3°39 | 10°28 | 17°13 | 19° 9 | 3°24 | n.a. | M29 |
| T 30 | 8 25 12 | 8° 2'25 | 20°13 | 0♒ 2 | 23°34 | 9° 6 | 23°49 | 14° 0 | 10°53 | 3°39 | 10°28 | 17°D13 | 19° 6 | 3°30 | n.a. | T 30 |
| W31 | 8 29 9 | 9♒ 2'35 | 2♈20 | 1♒49 | 24♓39 | 8♌42 | 23♈57 | 13♊58 | 10♓56 | 3♉40 | 10♉28 | 17♍14 | 19♍ 3 | 3♒37 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| M 1 | 23s25 | 10s12 | 1n44 | 22s33 | 0n21 | 15s54 | 1s14 | 19n31 | 3n58 | 7n21 | 1s 6 | 22n 4 | 0s51 | 8s44 | 0s45 | 11n 5 | 1s54 | 4n10 | 11s34 | 4n18 | 3n45 | 16s26 | | | n.a. |
| T 2 | 23 20 | 6 46 | 0 42 | 22 50 | 0 13 | 15 28 | 1 11 | 19 35 | 4 0 | 7 22 | 1 6 | 22 4 | 0 51 | 8 43 | 0 45 | 11 5 | 1 54 | 4 10 | 11 33 | 4 19 | 3 46 | 16 26 | | | n.a. |
| W 3 | 23 16 | 3 1 | 0s22 | 23 6 | 0 4 | 15 2 | 1 8 | 19 40 | 4 2 | 7 24 | 1 6 | 22 3 | 0 51 | 8 42 | 0 45 | 11 5 | 1 54 | 4 10 | 11 33 | 4 19 | 3 47 | 16 25 | | | n.a. |
| T 4 | 23 10 | 0n55 | 1 26 | 23 21 | 0s 4 | 14 36 | 1 5 | 19 45 | 4 4 | 7 25 | 1 5 | 22 3 | 0 51 | 8 41 | 0 45 | 11 5 | 1 54 | 4 10 | 11 33 | 4 18 | 3 49 | 16 24 | | | n.a. |
| F 5 | 23 5 | 4 55 | 2 28 | 23 35 | 0 12 | 14 9 | 1 2 | 19 50 | 4 6 | 7 27 | 1 5 | 22 3 | 0 50 | 8 40 | 0 45 | 11 5 | 1 54 | 4 10 | 11 33 | 4 18 | 3 50 | 16 23 | | | n.a. |
| S 6 | 22 59 | 8 49 | 3 24 | 23 48 | 0 19 | 13 42 | 0 58 | 19 56 | 4 8 | 7 28 | 1 5 | 22 2 | 0 50 | 8 39 | 0 45 | 11 4 | 1 54 | 4 10 | 11 32 | 4 19 | 3 51 | 16 22 | | | n.a. |
| S 7 | 22 52 | 12 24 | 4 11 | 24 0 | 0 27 | 13 14 | 0 55 | 20 1 | 4 10 | 7 30 | 1 5 | 22 2 | 0 50 | 8 38 | 0 45 | 11 4 | 1 54 | 4 11 | 11 32 | 4 20 | 3 52 | 16 21 | | | n.a. |
| M 8 | 22 45 | 15 26 | 4 45 | 24 11 | 0 34 | 12 47 | 0 51 | 20 7 | 4 12 | 7 32 | 1 4 | 22 2 | 0 50 | 8 38 | 0 45 | 11 4 | 1 54 | 4 11 | 11 32 | 4 23 | 3 54 | 16 20 | | | n.a. |
| T 9 | 22 38 | 17 37 | 5 3 | 24 21 | 0 41 | 12 19 | 0 48 | 20 13 | 4 14 | 7 34 | 1 4 | 22 2 | 0 50 | 8 37 | 0 45 | 11 4 | 1 54 | 4 11 | 11 32 | 4 26 | 3 55 | 16 19 | | | n.a. |
| W10 | 22 30 | 18 41 | 5 0 | 24 29 | 0 48 | 11 50 | 0 44 | 20 19 | 4 16 | 7 36 | 1 4 | 22 1 | 0 50 | 8 36 | 0 45 | 11 4 | 1 54 | 4 11 | 11 31 | 4 30 | 3 56 | 16 19 | | | n.a. |
| T 11 | 22 21 | 18 27 | 4 37 | 24 37 | 0 55 | 11 22 | 0 40 | 20 26 | 4 18 | 7 38 | 1 3 | 22 1 | 0 49 | 8 35 | 0 45 | 11 4 | 1 54 | 4 11 | 11 31 | 4 34 | 3 58 | 16 18 | | | n.a. |
| F 12 | 22 13 | 16 53 | 3 54 | 24 43 | 1 1 | 10 53 | 0 36 | 20 32 | 4 19 | 7 40 | 1 3 | 22 1 | 0 49 | 8 34 | 0 44 | 11 4 | 1 54 | 4 11 | 11 31 | 4 37 | 3 59 | 16 17 | | | n.a. |
| S 13 | 22 3 | 14 7 | 2 54 | 24 48 | 1 7 | 10 24 | 0 32 | 20 39 | 4 21 | 7 42 | 1 3 | 22 1 | 0 49 | 8 33 | 0 44 | 11 4 | 1 54 | 4 11 | 11 31 | 4 40 | 4 0 | 16 16 | | | n.a. |
| S 14 | 21 54 | 10 26 | 1 43 | 24 52 | 1 13 | 9 55 | 0 28 | 20 45 | 4 23 | 7 44 | 1 2 | 22 0 | 0 49 | 8 32 | 0 44 | 11 4 | 1 54 | 4 12 | 11 30 | 4 41 | 4 1 | 16 15 | | | n.a. |
| M15 | 21 44 | 6 12 | 0 26 | 24 54 | 1 19 | 9 26 | 0 24 | 20 52 | 4 24 | 7 46 | 1 2 | 22 0 | 0 49 | 8 31 | 0 44 | 11 4 | 1 54 | 4 12 | 11 30 | 4 42 | 4 3 | 16 14 | | | n.a. |
| T 16 | 21 33 | 1 44 | 0n50 | 24 55 | 1 24 | 8 56 | 0 20 | 20 59 | 4 26 | 7 48 | 1 2 | 22 0 | 0 49 | 8 30 | 0 44 | 11 5 | 1 53 | 4 12 | 11 30 | 4 42 | 4 4 | 16 13 | | | n.a. |
| W17 | 21 22 | 2s41 | 2 1 | 24 55 | 1 29 | 8 27 | 0 15 | 21 6 | 4 27 | 7 51 | 1 2 | 22 0 | 0 48 | 8 29 | 0 44 | 11 5 | 1 53 | 4 12 | 11 30 | 4 41 | 4 5 | 16 12 | | | n.a. |
| T 18 | 21 11 | 6 50 | 3 3 | 24 53 | 1 34 | 7 57 | 0 11 | 21 13 | 4 29 | 7 53 | 1 1 | 21 59 | 0 48 | 8 28 | 0 44 | 11 5 | 1 53 | 4 12 | 11 29 | 4 41 | 4 6 | 16 11 | | | n.a. |
| F 19 | 21 0 | 10 32 | 3 54 | 24 49 | 1 38 | 7 27 | 0 6 | 21 20 | 4 30 | 7 56 | 1 1 | 21 59 | 0 48 | 8 27 | 0 44 | 11 5 | 1 53 | 4 13 | 11 29 | 4 41 | 4 8 | 16 10 | | | n.a. |
| S 20 | 20 48 | 13 39 | 4 32 | 24 44 | 1 42 | 6 57 | 0 2 | 21 27 | 4 31 | 7 58 | 1 1 | 21 59 | 0 48 | 8 26 | 0 44 | 11 5 | 1 53 | 4 13 | 11 29 | 4 42 | 4 9 | 16 10 | | | n.a. |
| S 21 | 20 35 | 16 6 | 4 56 | 24 38 | 1 46 | 6 26 | 0n 3 | 21 34 | 4 32 | 8 1 | 1 0 | 21 59 | 0 48 | 8 25 | 0 44 | 11 5 | 1 53 | 4 13 | 11 28 | 4 44 | 4 10 | 16 9 | | | n.a. |
| M22 | 20 22 | 17 46 | 5 7 | 24 30 | 1 50 | 5 56 | 0 7 | 21 42 | 4 33 | 8 3 | 1 0 | 21 59 | 0 48 | 8 23 | 0 44 | 11 5 | 1 53 | 4 13 | 11 28 | 4 47 | 4 11 | 16 8 | | | n.a. |
| T 23 | 20 9 | 18 37 | 5 3 | 24 20 | 1 53 | 5 26 | 0 12 | 21 49 | 4 34 | 8 6 | 1 0 | 21 59 | 0 47 | 8 22 | 0 44 | 11 5 | 1 53 | 4 14 | 11 28 | 4 50 | 4 13 | 16 7 | | | n.a. |
| W24 | 19 56 | 18 38 | 4 47 | 24 8 | 1 55 | 4 55 | 0 17 | 21 56 | 4 34 | 8 9 | 1 0 | 21 59 | 0 47 | 8 21 | 0 44 | 11 5 | 1 53 | 4 14 | 11 28 | 4 54 | 4 14 | 16 6 | | | n.a. |
| T 25 | 19 42 | 17 49 | 4 18 | 23 55 | 1 58 | 4 24 | 0 22 | 22 3 | 4 35 | 8 12 | 0 59 | 21 58 | 0 47 | 8 20 | 0 44 | 11 6 | 1 53 | 4 14 | 11 27 | 4 58 | 4 15 | 16 5 | | | n.a. |
| F 26 | 19 28 | 16 15 | 3 38 | 23 40 | 2 0 | 3 54 | 0 27 | 22 10 | 4 36 | 8 15 | 0 59 | 21 58 | 0 47 | 8 19 | 0 44 | 11 6 | 1 53 | 4 14 | 11 27 | 5 1 | 4 16 | 16 4 | | | n.a. |
| S 27 | 19 13 | 13 59 | 2 48 | 23 23 | 2 1 | 3 23 | 0 32 | 22 17 | 4 36 | 8 18 | 0 59 | 21 58 | 0 47 | 8 18 | 0 44 | 11 6 | 1 53 | 4 15 | 11 27 | 5 3 | 4 18 | 16 3 | | | n.a. |
| S 28 | 18 58 | 11 8 | 1 51 | 23 5 | 2 3 | 2 52 | 0 37 | 22 24 | 4 36 | 8 21 | 0 59 | 21 58 | 0 47 | 8 17 | 0 44 | 11 6 | 1 53 | 4 15 | 11 26 | 5 5 | 4 19 | 16 2 | | | n.a. |
| M29 | 18 43 | 7 49 | 0 49 | 22 45 | 2 3 | 2 22 | 0 42 | 22 31 | 4 37 | 8 24 | 0 58 | 21 58 | 0 46 | 8 16 | 0 44 | 11 6 | 1 53 | 4 15 | 11 26 | 5 6 | 4 20 | 16 1 | | | n.a. |
| T 30 | 18 27 | 4 10 | 0s16 | 22 23 | 2 4 | 1 51 | 0 48 | 22 37 | 4 37 | 8 27 | 0 58 | 21 58 | 0 46 | 8 14 | 0 44 | 11 7 | 1 52 | 4 15 | 11 26 | 5 6 | 4 21 | 16 0 | | | n.a. |
| W31 | 18s12 | 0s18 | 1s22 | 21s59 | 2s 4 | 1s20 | 0n53 | 22n44 | 4n37 | 8n30 | 0s58 | 21n58 | 0s46 | 8s13 | 0s44 | 11n 7 | 1s52 | 4n16 | 11s26 | 5n 6 | 4n23 | 15s59 | | | n.a. |

Julian Day Number = 1689281.5, Delta T = 03h11m20s
Ecliptic obliquity = 23°42'11, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°16'47, Lahiri = - 5°09'47 Julian Calendar 1 Jan. 88 BCE == Greg. Calendar 30 Dec. 089 BCE

The year -87 astronomical counting style corresponds to year 088 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 88 BCE
# geocentric

## FEBRUARY 88 BCE (-87) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 33 5 | 10♒ 2'44 | 14♈39 | 3♒36 | 25♓43 | 8°R18 | 24♈ 5 | 13°R56 | 10♓59 | 3♉40 | 10♉28 | 17♍16 | 19♍ 0 | 3♒44 | n.a. | T 1 |
| F 2 | 8 37 2 | 11° 2'50 | 27°15 | 5°25 | 26°47 | 7♌55 | 24°13 | 13♊55 | 11° 2 | 3°41 | 10°28 | 17°17 | 18°57 | 3°50 | n.a. | F 2 |
| S 3 | 8 40 58 | 12° 2'54 | 10♉12 | 7°14 | 27°51 | 7°31 | 24°21 | 13°53 | 11° 6 | 3°41 | 10°28 | 17°R18 | 18°54 | 3°57 | n.a. | S 3 |
| S 4 | 8 44 55 | 13° 2'56 | 23°32 | 9° 5 | 28°54 | 7° 8 | 24°29 | 13°52 | 11° 9 | 3°42 | 10°28 | 17°17 | 18°50 | 4° 4 | n.a. | S 4 |
| M 5 | 8 48 51 | 14° 2'56 | 7♊20 | 10°57 | 29°57 | 6°44 | 24°38 | 13°51 | 11°12 | 3°43 | 10°29 | 17°15 | 18°47 | 4°10 | n.a. | M 5 |
| T 6 | 8 52 48 | 15° 2'53 | 21°35 | 12°50 | 1♈ 0 | 6°21 | 24°46 | 13°50 | 11°15 | 3°43 | 10°29 | 17°12 | 18°44 | 4°17 | n.a. | T 6 |
| W 7 | 8 56 44 | 16° 2'48 | 6♋16 | 14°44 | 2° 2 | 5°58 | 24°55 | 13°49 | 11°18 | 3°44 | 10°29 | 17° 8 | 18°41 | 4°24 | n.a. | W 7 |
| T 8 | 9 0 41 | 17° 2'41 | 21°17 | 16°38 | 3° 4 | 5°35 | 25° 4 | 13°48 | 11°21 | 3°45 | 10°29 | 17° 3 | 18°38 | 4°30 | n.a. | T 8 |
| F 9 | 9 4 38 | 18° 2'32 | 6♌29 | 18°34 | 4° 5 | 5°13 | 25°13 | 13°47 | 11°24 | 3°46 | 10°30 | 16°59 | 18°35 | 4°37 | n.a. | F 9 |
| S 10 | 9 8 34 | 19° 2'20 | 21°44 | 20°31 | 5° 6 | 4°51 | 25°22 | 13°46 | 11°28 | 3°46 | 10°30 | 16°56 | 18°31 | 4°44 | n.a. | S 10 |
| S 11 | 9 12 31 | 20° 2'07 | 6♍50 | 22°28 | 6° 7 | 4°30 | 25°31 | 13°46 | 11°31 | 3°47 | 10°30 | 16°55 | 18°28 | 4°50 | n.a. | S 11 |
| M12 | 9 16 27 | 21° 1'51 | 21°40 | 24°26 | 7° 7 | 4° 9 | 25°41 | 13°45 | 11°34 | 3°48 | 10°31 | 16°D55 | 18°25 | 4°57 | n.a. | M12 |
| T 13 | 9 20 24 | 22° 1'33 | 6♎ 5 | 26°25 | 8° 7 | 3°48 | 25°50 | 13°45 | 11°37 | 3°49 | 10°31 | 16°55 | 18°22 | 5° 4 | n.a. | T 13 |
| W14 | 9 24 20 | 23° 1'14 | 20° 4 | 28°24 | 9° 6 | 3°28 | 26° 0 | 13°44 | 11°41 | 3°50 | 10°31 | 16°57 | 18°19 | 5°10 | n.a. | W14 |
| T 15 | 9 28 17 | 24° 0'52 | 3♏36 | 0♓23 | 10° 5 | 3° 8 | 26° 9 | 13°44 | 11°44 | 3°51 | 10°32 | 16°58 | 18°15 | 5°17 | n.a. | T 15 |
| F 16 | 9 32 13 | 25° 0'29 | 16°41 | 2°23 | 11° 4 | 2°49 | 26°19 | 13°D44 | 11°47 | 3°52 | 10°32 | 16°59 | 18°12 | 5°24 | n.a. | F 16 |
| S 17 | 9 36 10 | 26° 0'04 | 29°24 | 4°22 | 12° 2 | 2°31 | 26°29 | 13°44 | 11°51 | 3°53 | 10°33 | 17°R 0 | 18° 9 | 5°31 | n.a. | S 17 |
| S 18 | 9 40 6 | 26°59'38 | 11♐49 | 6°20 | 12°59 | 2°13 | 26°39 | 13°45 | 11°54 | 3°54 | 10°33 | 16°59 | 18° 6 | 5°37 | n.a. | S 18 |
| M19 | 9 44 3 | 27°59'09 | 23°59 | 8°18 | 13°56 | 1°56 | 26°49 | 13°45 | 11°57 | 3°55 | 10°34 | 16°57 | 18° 3 | 5°44 | n.a. | M19 |
| T 20 | 9 48 0 | 28°58'39 | 5♑58 | 10°15 | 14°53 | 1°39 | 27° 0 | 13°45 | 12° 1 | 3°56 | 10°34 | 16°55 | 18° 0 | 5°51 | n.a. | T 20 |
| W21 | 9 51 56 | 29°58'06 | 17°51 | 12°10 | 15°49 | 1°24 | 27°10 | 13°46 | 12° 4 | 3°58 | 10°35 | 16°52 | 17°56 | 5°57 | n.a. | W21 |
| T 22 | 9 55 53 | 0♓57'32 | 29°40 | 14° 3 | 16°44 | 1° 8 | 27°20 | 13°46 | 12° 7 | 3°59 | 10°35 | 16°49 | 17°53 | 6° 4 | n.a. | T 22 |
| F 23 | 9 59 49 | 1°56'56 | 11♒29 | 15°54 | 17°39 | 0°54 | 27°31 | 13°47 | 12°11 | 4° 0 | 10°36 | 16°47 | 17°50 | 6°11 | n.a. | F 23 |
| S 24 | 10 3 46 | 2°56'17 | 23°20 | 17°42 | 18°33 | 0°40 | 27°42 | 13°48 | 12°14 | 4° 1 | 10°36 | 16°45 | 17°47 | 6°17 | n.a. | S 24 |
| S 25 | 10 7 42 | 3°55'37 | 5♓15 | 19°27 | 19°26 | 0°28 | 27°52 | 13°49 | 12°18 | 4° 3 | 10°37 | 16°44 | 17°44 | 6°24 | n.a. | S 25 |
| M26 | 10 11 39 | 4°54'54 | 17°16 | 21° 9 | 20°19 | 0°16 | 28° 3 | 13°50 | 12°21 | 4° 4 | 10°38 | 16°D44 | 17°40 | 6°31 | n.a. | M26 |
| T 27 | 10 15 35 | 5°54'09 | 29°25 | 22°46 | 21°11 | 0° 4 | 28°14 | 13°51 | 12°24 | 4° 5 | 10°38 | 16°44 | 17°37 | 6°37 | n.a. | T 27 |
| W28 | 10 19 32 | 6♓53'22 | 11♈44 | 24♓19 | 22♈ 3 | 29♋54 | 28♈25 | 13♊53 | 12♓28 | 4♉ 7 | 10♉39 | 16♍45 | 17♍34 | 6♒44 | n.a. | W28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 17s55 | 3n38 | 2s24 | 21s33 | 2s 3 | 0s50 | 0n58 | 22n50 | 4n37 | 8n33 | 0s57 | 21n58 | 0s46 | 8s12 | 0s44 | 11n 7 | 1s52 | 4n16 | 11s25 | 5n 5 | 4n24 | 15s58 | | n.a. |
| F 2 | 17 39 | 7 29 | 3 21 | 21 6 | 2 2 | 0 19 | 1 4 | 22 56 | 4 36 | 8 36 | 0 57 | 21 58 | 0 46 | 8 11 | 0 44 | 11 7 | 1 52 | 4 16 | 11 25 | 5 5 | 4 25 | 15 57 | | n.a. |
| S 3 | 17 22 | 11 5 | 4 10 | 20 36 | 2 1 | 0n11 | 1 9 | 23 2 | 4 36 | 8 39 | 0 57 | 21 58 | 0 45 | 8 10 | 0 44 | 11 8 | 1 52 | 4 17 | 11 25 | 5 4 | 4 27 | 15 57 | | n.a. |
| S 4 | 17 5 | 14 14 | 4 46 | 20 5 | 1 59 | 0 42 | 1 15 | 23 8 | 4 36 | 8 43 | 0 57 | 21 58 | 0 45 | 8 8 | 0 44 | 11 8 | 1 52 | 4 17 | 11 24 | 5 4 | 4 28 | 15 56 | | n.a. |
| M 5 | 16 48 | 16 43 | 5 8 | 19 32 | 1 56 | 1 12 | 1 20 | 23 13 | 4 35 | 8 46 | 0 56 | 21 58 | 0 45 | 8 7 | 0 44 | 11 8 | 1 52 | 4 17 | 11 24 | 5 5 | 4 29 | 15 55 | | n.a. |
| T 6 | 16 30 | 18 15 | 5 12 | 18 57 | 1 53 | 1 43 | 1 26 | 23 19 | 4 34 | 8 50 | 0 56 | 21 58 | 0 45 | 8 6 | 0 44 | 11 8 | 1 52 | 4 18 | 11 24 | 5 7 | 4 30 | 15 54 | | n.a. |
| W 7 | 16 12 | 18 38 | 4 56 | 18 20 | 1 49 | 2 13 | 1 32 | 23 24 | 4 34 | 8 53 | 0 56 | 21 58 | 0 45 | 8 5 | 0 44 | 11 9 | 1 52 | 4 18 | 11 24 | 5 8 | 4 32 | 15 53 | | n.a. |
| T 8 | 15 54 | 17 44 | 4 19 | 17 41 | 1 45 | 2 43 | 1 37 | 23 29 | 4 33 | 8 57 | 0 56 | 21 58 | 0 45 | 8 4 | 0 44 | 11 9 | 1 52 | 4 18 | 11 23 | 5 10 | 4 33 | 15 52 | | n.a. |
| F 9 | 15 35 | 15 34 | 3 24 | 17 1 | 1 40 | 3 13 | 1 43 | 23 34 | 4 32 | 9 0 | 0 55 | 21 58 | 0 44 | 8 2 | 0 44 | 11 9 | 1 52 | 4 19 | 11 23 | 5 12 | 4 34 | 15 51 | | n.a. |
| S 10 | 15 17 | 12 18 | 2 14 | 16 19 | 1 35 | 3 43 | 1 49 | 23 38 | 4 31 | 9 4 | 0 55 | 21 58 | 0 44 | 8 1 | 0 44 | 11 10 | 1 52 | 4 19 | 11 23 | 5 13 | 4 35 | 15 50 | | n.a. |
| S 11 | 14 58 | 8 15 | 0 55 | 15 35 | 1 29 | 4 12 | 1 55 | 23 42 | 4 30 | 9 7 | 0 55 | 21 58 | 0 44 | 8 0 | 0 44 | 11 10 | 1 52 | 4 19 | 11 22 | 5 13 | 4 37 | 15 49 | | n.a. |
| M12 | 14 39 | 3 45 | 0n26 | 14 49 | 1 23 | 4 42 | 2 0 | 23 46 | 4 28 | 9 11 | 0 55 | 21 59 | 0 44 | 7 59 | 0 44 | 11 11 | 1 52 | 4 20 | 11 22 | 5 13 | 4 38 | 15 48 | | n.a. |
| T 13 | 14 19 | 0s52 | 1 44 | 14 2 | 1 15 | 5 11 | 2 6 | 23 50 | 4 27 | 9 15 | 0 55 | 21 59 | 0 44 | 7 57 | 0 44 | 11 11 | 1 52 | 4 20 | 11 22 | 5 13 | 4 39 | 15 47 | | n.a. |
| W14 | 14 0 | 5 16 | 2 53 | 13 13 | 1 8 | 5 40 | 2 12 | 23 54 | 4 26 | 9 18 | 0 54 | 21 59 | 0 44 | 7 56 | 0 44 | 11 11 | 1 51 | 4 21 | 11 22 | 5 13 | 4 40 | 15 46 | | n.a. |
| T 15 | 13 40 | 9 15 | 3 50 | 12 23 | 0 59 | 6 9 | 2 18 | 23 57 | 4 24 | 9 22 | 0 54 | 21 59 | 0 43 | 7 55 | 0 44 | 11 12 | 1 51 | 4 21 | 11 21 | 5 12 | 4 42 | 15 45 | | n.a. |
| F 16 | 13 20 | 12 39 | 4 33 | 11 32 | 0 50 | 6 38 | 2 24 | 24 0 | 4 22 | 9 26 | 0 54 | 21 59 | 0 43 | 7 53 | 0 44 | 11 12 | 1 51 | 4 21 | 11 21 | 5 12 | 4 43 | 15 44 | | n.a. |
| S 17 | 12 59 | 15 21 | 5 1 | 10 39 | 0 41 | 7 6 | 2 30 | 24 3 | 4 21 | 9 30 | 0 54 | 21 59 | 0 43 | 7 52 | 0 44 | 11 12 | 1 51 | 4 22 | 11 21 | 5 11 | 4 44 | 15 43 | | n.a. |
| S 18 | 12 39 | 17 16 | 5 14 | 9 46 | 0 31 | 7 35 | 2 36 | 24 5 | 4 19 | 9 34 | 0 53 | 22 0 | 0 43 | 7 51 | 0 44 | 11 13 | 1 51 | 4 22 | 11 21 | 5 12 | 4 45 | 15 42 | | n.a. |
| M19 | 12 18 | 18 21 | 5 13 | 8 52 | 0 20 | 8 2 | 2 42 | 24 7 | 4 17 | 9 37 | 0 53 | 22 0 | 0 43 | 7 50 | 0 44 | 11 13 | 1 51 | 4 22 | 11 20 | 5 12 | 4 47 | 15 41 | | n.a. |
| T 20 | 11 57 | 18 36 | 4 58 | 7 57 | 0 9 | 8 30 | 2 48 | 24 9 | 4 15 | 9 41 | 0 53 | 22 0 | 0 42 | 7 48 | 0 44 | 11 14 | 1 51 | 4 23 | 11 20 | 5 13 | 4 48 | 15 40 | | n.a. |
| W21 | 11 36 | 18 1 | 4 31 | 7 2 | 0n 2 | 8 58 | 2 54 | 24 11 | 4 13 | 9 45 | 0 53 | 22 0 | 0 42 | 7 47 | 0 44 | 11 14 | 1 51 | 4 23 | 11 20 | 5 14 | 4 49 | 15 39 | | n.a. |
| T 22 | 11 15 | 16 40 | 3 52 | 6 7 | 0 14 | 9 25 | 3 0 | 24 13 | 4 11 | 9 49 | 0 53 | 22 1 | 0 42 | 7 46 | 0 44 | 11 15 | 1 51 | 4 24 | 11 20 | 5 15 | 4 50 | 15 38 | | n.a. |
| F 23 | 10 54 | 14 36 | 3 3 | 5 13 | 0 26 | 9 52 | 3 6 | 24 14 | 4 9 | 9 53 | 0 52 | 22 1 | 0 42 | 7 44 | 0 44 | 11 15 | 1 51 | 4 24 | 11 19 | 5 16 | 4 52 | 15 37 | | n.a. |
| S 24 | 10 32 | 11 55 | 2 6 | 4 19 | 0 39 | 10 18 | 3 12 | 24 15 | 4 7 | 9 57 | 0 52 | 22 1 | 0 42 | 7 43 | 0 44 | 11 16 | 1 51 | 4 25 | 11 19 | 5 17 | 4 53 | 15 36 | | n.a. |
| S 25 | 10 11 | 8 43 | 1 3 | 3 26 | 0 51 | 10 44 | 3 18 | 24 16 | 4 5 | 10 2 | 0 52 | 22 1 | 0 42 | 7 42 | 0 44 | 11 16 | 1 51 | 4 25 | 11 19 | 5 17 | 4 54 | 15 35 | | n.a. |
| M26 | 9 49 | 5 8 | 0s 3 | 2 34 | 1 4 | 11 10 | 3 24 | 24 16 | 4 3 | 10 6 | 0 52 | 22 2 | 0 41 | 7 40 | 0 44 | 11 17 | 1 51 | 4 25 | 11 18 | 5 18 | 4 55 | 15 34 | | n.a. |
| T 27 | 9 27 | 1 18 | 1 10 | 1 44 | 1 16 | 11 36 | 3 30 | 24 16 | 4 1 | 10 10 | 0 51 | 22 2 | 0 41 | 7 39 | 0 44 | 11 17 | 1 51 | 4 26 | 11 18 | 5 17 | 4 57 | 15 33 | | n.a. |
| W28 | 9s 5 | 2n38 | 2s14 | 0s55 | 1n29 | 12n 1 | 3n36 | 24n17 | 3n58 | 10n14 | 0s51 | 22n 2 | 0s41 | 7s38 | 0s44 | 11n18 | 1s51 | 4n26 | 11s18 | 5n17 | 4n58 | 15s32 | | n.a. |

Julian Day Number = 1689312.5, Delta T = 03h11m19s
Ecliptic obliquity = 23°42'11, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°16'43, Lahiri = - 5°09'42 Julian Calendar 1 Feb. 88 BCE == Greg. Calendar 30 Jan. 088 BCE

The year -87 astronomical counting style corresponds to year 088 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 88 BCE
# geocentric

## MARCH 88 BCE (-87) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 10 23 29 | 7♓52'32 | 24♈15 | 25♓48 | 22♈54 | 29°R44 | 28♈36 | 13♊54 | 12♓31 | 4♉ 8 | 10♉40 | 16♍46 | 17♍31 | 6♒51 | n.a. | T 1 |
| F 2 | 10 27 25 | 8°51'40 | 7♉ 1 | 27°11 | 23°44 | 29♋35 | 28°48 | 13°55 | 12°35 | 4° 9 | 10°40 | 16°47 | 17°28 | 6°57 | n.a. | F 2 |
| S 3 | 10 31 22 | 9°50'46 | 20° 3 | 28°28 | 24°33 | 29°27 | 28°59 | 13°57 | 12°38 | 4°11 | 10°41 | 16°47 | 17°25 | 7° 4 | n.a. | S 3 |
| S 4 | 10 35 18 | 10°49'49 | 3♊24 | 29°40 | 25°21 | 29°19 | 29°10 | 13°59 | 12°41 | 4°12 | 10°42 | 16°48 | 17°21 | 7°11 | n.a. | S 4 |
| M 5 | 10 39 15 | 11°48'50 | 17° 6 | 0♈46 | 26° 9 | 29°13 | 29°22 | 14° 1 | 12°45 | 4°14 | 10°43 | 16°R48 | 17°18 | 7°17 | n.a. | M 5 |
| T 6 | 10 43 11 | 12°47'49 | 1♋ 8 | 1°46 | 26°55 | 29° 7 | 29°33 | 14° 3 | 12°48 | 4°15 | 10°43 | 16°47 | 17°15 | 7°24 | n.a. | T 6 |
| W 7 | 10 47 8 | 13°46'45 | 15°31 | 2°40 | 27°41 | 29° 2 | 29°45 | 14° 5 | 12°52 | 4°17 | 10°44 | 16°47 | 17°12 | 7°31 | n.a. | W 7 |
| T 8 | 10 51 4 | 14°45'39 | 0♌11 | 3°27 | 28°26 | 28°58 | 29°57 | 14° 7 | 12°55 | 4°19 | 10°45 | 16°47 | 17° 9 | 7°37 | n.a. | T 8 |
| F 9 | 10 55 1 | 15°44'31 | 15° 2 | 4° 7 | 29°10 | 28°54 | 0♉ 9 | 14° 9 | 12°59 | 4°20 | 10°46 | 16°47 | 17° 6 | 7°44 | n.a. | F 9 |
| S 10 | 10 58 57 | 16°43'20 | 29°59 | 4°41 | 29°52 | 28°52 | 0°20 | 14°11 | 13° 2 | 4°22 | 10°47 | 16°D47 | 17° 2 | 7°51 | n.a. | S 10 |
| S 11 | 11 2 54 | 17°42'07 | 14♍54 | 5° 8 | 0♉34 | 28°50 | 0°32 | 14°14 | 13° 5 | 4°23 | 10°48 | 16°R47 | 16°59 | 7°57 | n.a. | S 11 |
| M12 | 11 6 51 | 18°40'51 | 29°37 | 5°28 | 1°15 | 28°49 | 0°44 | 14°16 | 13° 9 | 4°25 | 10°49 | 16°47 | 16°56 | 8° 4 | n.a. | M12 |
| T 13 | 11 10 47 | 19°39'34 | 14♎ 4 | 5°42 | 1°54 | 28°D48 | 0°56 | 14°19 | 13°12 | 4°27 | 10°49 | 16°47 | 16°53 | 8°11 | n.a. | T 13 |
| W14 | 11 14 44 | 20°38'15 | 28° 7 | 5°49 | 2°32 | 28°49 | 1° 9 | 14°22 | 13°16 | 4°29 | 10°50 | 16°46 | 16°50 | 8°17 | n.a. | W14 |
| T 15 | 11 18 40 | 21°36'54 | 11♏46 | 5°R49 | 3° 9 | 28°50 | 1°21 | 14°25 | 13°19 | 4°30 | 10°51 | 16°46 | 16°46 | 8°24 | n.a. | T 15 |
| F 16 | 11 22 37 | 22°35'31 | 24°59 | 5°44 | 3°45 | 28°52 | 1°33 | 14°28 | 13°22 | 4°32 | 10°52 | 16°45 | 16°43 | 8°31 | n.a. | F 16 |
| S 17 | 11 26 33 | 23°34'07 | 7♐48 | 5°32 | 4°19 | 28°54 | 1°46 | 14°31 | 13°26 | 4°34 | 10°53 | 16°45 | 16°40 | 8°37 | n.a. | S 17 |
| S 18 | 11 30 30 | 24°32'40 | 20°17 | 5°15 | 4°52 | 28°57 | 1°58 | 14°34 | 13°29 | 4°36 | 10°54 | 16°D44 | 16°37 | 8°44 | n.a. | S 18 |
| M19 | 11 34 26 | 25°31'12 | 2♑28 | 4°53 | 5°24 | 29° 1 | 2°10 | 14°37 | 13°33 | 4°37 | 10°55 | 16°44 | 16°34 | 8°51 | n.a. | M19 |
| T 20 | 11 38 23 | 26°29'43 | 14°28 | 4°26 | 5°54 | 29° 6 | 2°23 | 14°41 | 13°36 | 4°39 | 10°56 | 16°45 | 16°31 | 8°58 | n.a. | T 20 |
| W21 | 11 42 20 | 27°28'11 | 26°20 | 3°55 | 6°22 | 29°11 | 2°36 | 14°44 | 13°39 | 4°41 | 10°57 | 16°46 | 16°27 | 9° 4 | n.a. | W21 |
| T 22 | 11 46 16 | 28°26'38 | 8♒ 8 | 3°21 | 6°49 | 29°17 | 2°48 | 14°48 | 13°43 | 4°43 | 10°58 | 16°47 | 16°24 | 9°11 | n.a. | T 22 |
| F 23 | 11 50 13 | 29°25'03 | 19°58 | 2°44 | 7°15 | 29°24 | 3° 1 | 14°51 | 13°46 | 4°45 | 10°59 | 16°48 | 16°21 | 9°18 | n.a. | F 23 |
| S 24 | 11 54 9 | 0♈23'26 | 1♓53 | 2° 4 | 7°38 | 29°31 | 3°14 | 14°55 | 13°49 | 4°47 | 11° 0 | 16°49 | 16°18 | 9°24 | n.a. | S 24 |
| S 25 | 11 58 6 | 1°21'47 | 13°55 | 1°24 | 8° 0 | 29°39 | 3°27 | 14°59 | 13°53 | 4°49 | 11° 2 | 16°R49 | 16°15 | 9°31 | n.a. | S 25 |
| M26 | 12 2 2 | 2°20'07 | 26° 7 | 0°43 | 8°20 | 29°47 | 3°39 | 15° 3 | 13°56 | 4°51 | 11° 3 | 16°49 | 16°11 | 9°38 | n.a. | M26 |
| T 27 | 12 5 59 | 3°18'24 | 8♈31 | 0° 2 | 8°38 | 29°56 | 3°52 | 15° 7 | 13°59 | 4°53 | 11° 4 | 16°48 | 16° 8 | 9°44 | n.a. | T 27 |
| W28 | 12 9 55 | 4°16'40 | 21° 7 | 29♓22 | 8°54 | 0♌ 6 | 4° 5 | 15°11 | 14° 3 | 4°55 | 11° 5 | 16°46 | 16° 5 | 9°51 | n.a. | W28 |
| T 29 | 12 13 52 | 5°14'54 | 3♉58 | 28°43 | 9° 8 | 0°16 | 4°18 | 15°15 | 14° 6 | 4°57 | 11° 6 | 16°44 | 16° 2 | 9°58 | n.a. | T 29 |
| F 30 | 12 17 48 | 6°13'06 | 17° 3 | 28° 7 | 9°21 | 0°27 | 4°31 | 15°19 | 14° 9 | 4°59 | 11° 7 | 16°41 | 15°59 | 10° 4 | n.a. | F 30 |
| S 31 | 12 21 45 | 7♈11'15 | 0♊21 | 27♓33 | 9♉31 | 0♌39 | 4♉45 | 15♊24 | 14♓12 | 5♉ 1 | 11♉ 8 | 16♍38 | 15♍56 | 10♒11 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 8s42 | 6n30 | 3s14 | 0s 9 | 1n41 | 12n26 | 3n42 | 24n17 | 3n56 | 10n18 | 0s51 | 22n 3 | 0s41 | 7s36 | 0s44 | 11n18 | 1s51 | 4n27 | 11s18 | 5n17 | 4n59 | 15s31 | | | n.a. |
| F 2 | 8 20 | 10 9 | 4 4 | 0n36 | 1 53 | 12 50 | 3 48 | 24 16 | 3 54 | 10 22 | 0 51 | 22 3 | 0 41 | 7 35 | 0 44 | 11 19 | 1 51 | 4 27 | 11 17 | 5 17 | 5 0 | 15 30 | | | n.a. |
| S 3 | 7 58 | 13 24 | 4 44 | 1 17 | 2 5 | 13 14 | 3 54 | 24 16 | 3 52 | 10 27 | 0 51 | 22 3 | 0 41 | 7 34 | 0 44 | 11 19 | 1 50 | 4 28 | 11 17 | 5 16 | 5 2 | 15 29 | | | n.a. |
| S 4 | 7 35 | 16 1 | 5 9 | 1 56 | 2 16 | 13 37 | 4 0 | 24 15 | 3 49 | 10 31 | 0 51 | 22 4 | 0 40 | 7 32 | 0 44 | 11 20 | 1 50 | 4 28 | 11 17 | 5 16 | 5 3 | 15 28 | | | n.a. |
| M 5 | 7 12 | 17 48 | 5 18 | 2 33 | 2 26 | 14 0 | 4 6 | 24 14 | 3 47 | 10 35 | 0 50 | 22 4 | 0 40 | 7 31 | 0 44 | 11 20 | 1 50 | 4 29 | 11 17 | 5 16 | 5 4 | 15 27 | | | n.a. |
| T 6 | 6 50 | 18 34 | 5 8 | 3 6 | 2 36 | 14 23 | 4 11 | 24 13 | 3 44 | 10 39 | 0 50 | 22 5 | 0 40 | 7 30 | 0 44 | 11 21 | 1 50 | 4 29 | 11 16 | 5 16 | 5 5 | 15 26 | | | n.a. |
| W 7 | 6 27 | 18 10 | 4 39 | 3 35 | 2 45 | 14 45 | 4 17 | 24 12 | 3 42 | 10 44 | 0 50 | 22 5 | 0 40 | 7 28 | 0 44 | 11 22 | 1 50 | 4 30 | 11 16 | 5 16 | 5 7 | 15 25 | | | n.a. |
| T 8 | 6 4 | 16 34 | 3 51 | 4 2 | 2 53 | 15 7 | 4 23 | 24 10 | 3 40 | 10 48 | 0 50 | 22 5 | 0 40 | 7 27 | 0 44 | 11 22 | 1 50 | 4 30 | 11 16 | 5 16 | 5 8 | 15 24 | | | n.a. |
| F 9 | 5 41 | 13 50 | 2 47 | 4 25 | 3 1 | 15 28 | 4 28 | 24 9 | 3 37 | 10 52 | 0 50 | 22 6 | 0 39 | 7 26 | 0 44 | 11 23 | 1 50 | 4 31 | 11 16 | 5 16 | 5 9 | 15 23 | | | n.a. |
| S 10 | 5 18 | 10 10 | 1 32 | 4 44 | 3 7 | 15 49 | 4 34 | 24 7 | 3 35 | 10 57 | 0 49 | 22 6 | 0 39 | 7 24 | 0 44 | 11 23 | 1 50 | 4 31 | 11 16 | 5 17 | 5 10 | 15 22 | | | n.a. |
| S 11 | 4 55 | 5 51 | 0 10 | 4 59 | 3 12 | 16 9 | 4 39 | 24 5 | 3 32 | 11 1 | 0 49 | 22 7 | 0 39 | 7 23 | 0 44 | 11 24 | 1 50 | 4 31 | 11 15 | 5 16 | 5 12 | 15 21 | | | n.a. |
| M12 | 4 32 | 1 14 | 1n11 | 5 11 | 3 16 | 16 28 | 4 45 | 24 3 | 3 30 | 11 6 | 0 49 | 22 7 | 0 39 | 7 22 | 0 44 | 11 25 | 1 50 | 4 32 | 11 15 | 5 17 | 5 13 | 15 20 | | | n.a. |
| T 13 | 4 8 | 3s22 | 2 26 | 5 19 | 3 19 | 16 47 | 4 50 | 24 0 | 3 27 | 11 10 | 0 49 | 22 8 | 0 39 | 7 20 | 0 44 | 11 25 | 1 50 | 4 32 | 11 15 | 5 17 | 5 14 | 15 19 | | | n.a. |
| W14 | 3 45 | 7 39 | 3 30 | 5 23 | 3 20 | 17 6 | 4 55 | 23 58 | 3 25 | 11 14 | 0 49 | 22 8 | 0 39 | 7 19 | 0 44 | 11 26 | 1 50 | 4 33 | 11 15 | 5 17 | 5 15 | 15 18 | | | n.a. |
| T 15 | 3 22 | 11 24 | 4 20 | 5 23 | 3 20 | 17 23 | 5 0 | 23 55 | 3 23 | 11 19 | 0 49 | 22 9 | 0 38 | 7 18 | 0 44 | 11 26 | 1 50 | 4 33 | 11 14 | 5 17 | 5 17 | 15 16 | | | n.a. |
| F 16 | 2 58 | 14 27 | 4 55 | 5 20 | 3 19 | 17 40 | 5 5 | 23 53 | 3 20 | 11 23 | 0 48 | 22 9 | 0 38 | 7 16 | 0 44 | 11 27 | 1 50 | 4 34 | 11 14 | 5 17 | 5 18 | 15 15 | | | n.a. |
| S 17 | 2 35 | 16 42 | 5 14 | 5 13 | 3 16 | 17 57 | 5 10 | 23 50 | 3 18 | 11 28 | 0 48 | 22 10 | 0 38 | 7 15 | 0 44 | 11 28 | 1 50 | 4 34 | 11 14 | 5 17 | 5 19 | 15 14 | | | n.a. |
| S 18 | 2 11 | 18 4 | 5 17 | 5 2 | 3 11 | 18 13 | 5 15 | 23 47 | 3 15 | 11 32 | 0 48 | 22 10 | 0 38 | 7 14 | 0 44 | 11 28 | 1 50 | 4 35 | 11 14 | 5 17 | 5 20 | 15 13 | | | n.a. |
| M19 | 1 48 | 18 35 | 5 6 | 4 48 | 3 5 | 18 28 | 5 19 | 23 43 | 3 13 | 11 37 | 0 48 | 22 11 | 0 38 | 7 13 | 0 44 | 11 29 | 1 50 | 4 35 | 11 14 | 5 17 | 5 22 | 15 12 | | | n.a. |
| T 20 | 1 24 | 18 15 | 4 41 | 4 30 | 2 58 | 18 42 | 5 24 | 23 40 | 3 11 | 11 41 | 0 48 | 22 11 | 0 38 | 7 11 | 0 44 | 11 30 | 1 50 | 4 36 | 11 13 | 5 17 | 5 23 | 15 11 | | | n.a. |
| W21 | 1 1 | 17 7 | 4 5 | 4 9 | 2 49 | 18 56 | 5 28 | 23 37 | 3 8 | 11 46 | 0 48 | 22 12 | 0 37 | 7 10 | 0 44 | 11 30 | 1 50 | 4 36 | 11 13 | 5 17 | 5 24 | 15 10 | | | n.a. |
| T 22 | 0 38 | 15 14 | 3 19 | 3 46 | 2 39 | 19 9 | 5 32 | 23 33 | 3 6 | 11 50 | 0 47 | 22 12 | 0 37 | 7 9 | 0 44 | 11 31 | 1 50 | 4 37 | 11 13 | 5 16 | 5 25 | 15 9 | | | n.a. |
| F 23 | 0 14 | 12 43 | 2 23 | 3 21 | 2 27 | 19 21 | 5 36 | 23 29 | 3 3 | 11 55 | 0 47 | 22 13 | 0 37 | 7 7 | 0 44 | 11 32 | 1 50 | 4 37 | 11 13 | 5 16 | 5 27 | 15 8 | | | n.a. |
| S 24 | 0n 9 | 9 39 | 1 22 | 2 53 | 2 15 | 19 32 | 5 39 | 23 26 | 3 1 | 11 59 | 0 47 | 22 14 | 0 37 | 7 6 | 0 44 | 11 32 | 1 49 | 4 38 | 11 13 | 5 16 | 5 28 | 15 7 | | | n.a. |
| S 25 | 0 33 | 6 9 | 0 16 | 2 25 | 2 1 | 19 43 | 5 43 | 23 22 | 2 59 | 12 4 | 0 47 | 22 14 | 0 37 | 7 5 | 0 44 | 11 33 | 1 49 | 4 38 | 11 12 | 5 15 | 5 29 | 15 6 | | | n.a. |
| M26 | 0 56 | 2 21 | 0s51 | 1 55 | 1 46 | 19 53 | 5 46 | 23 17 | 2 56 | 12 9 | 0 47 | 22 15 | 0 37 | 7 4 | 0 44 | 11 34 | 1 49 | 4 39 | 11 12 | 5 16 | 5 30 | 15 5 | | | n.a. |
| T 27 | 1 20 | 1n37 | 1 57 | 1 24 | 1 31 | 20 1 | 5 49 | 23 13 | 2 54 | 12 13 | 0 47 | 22 15 | 0 37 | 7 2 | 0 44 | 11 34 | 1 49 | 4 39 | 11 12 | 5 16 | 5 32 | 15 4 | | | n.a. |
| W28 | 1 43 | 5 35 | 2 58 | 0 53 | 1 15 | 20 9 | 5 51 | 23 9 | 2 52 | 12 18 | 0 46 | 22 16 | 0 36 | 7 1 | 0 44 | 11 35 | 1 49 | 4 40 | 11 12 | 5 17 | 5 33 | 15 3 | | | n.a. |
| T 29 | 2 6 | 9 21 | 3 52 | 0 23 | 0 58 | 20 16 | 5 53 | 23 4 | 2 50 | 12 22 | 0 46 | 22 17 | 0 36 | 7 0 | 0 44 | 11 36 | 1 49 | 4 40 | 11 12 | 5 18 | 5 34 | 15 1 | | | n.a. |
| F 30 | 2 30 | 12 44 | 4 34 | 0s 7 | 0 42 | 20 22 | 5 55 | 23 0 | 2 47 | 12 27 | 0 46 | 22 17 | 0 36 | 6 58 | 0 44 | 11 37 | 1 49 | 4 41 | 11 11 | 5 19 | 5 35 | 15 0 | | | n.a. |
| S 31 | 2n53 | 15n31 | 5s 3 | 0s36 | 0n25 | 20n27 | 5n57 | 22n55 | 2n45 | 12n31 | 0s46 | 22n18 | 0s36 | 6s57 | 0s44 | 11n37 | 1s49 | 4n41 | 11s11 | 5n20 | 5n37 | 14s59 | | | n.a. |

Julian Day Number = 1689340.5, Delta T = 03h11m19s
Ecliptic obliquity = 23°42'12, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°16'39, Lahiri = - 5°09'39 Julian Calendar 1 March 88 BCE == Greg. Calendar 27 Feb. 088 BCE

The year -87 astronomical counting style corresponds to year 088 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 88 BCE
# geocentric

## APRIL 88 BCE (-87) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 25 42 | 8♈ 9'23 | 13♊53 | 27°R 3 | 9♉38 | 0♌51 | 4♉58 | 15♊28 | 14♓15 | 5♉ 3 | 11♉10 | 16°R36 | 15♍52 | 10♒18 | n.a. | S 1 |
| M 2 | 12 29 38 | 9° 7'29 | 27°39 | 26♓37 | 9°44 | 1° 4 | 5°11 | 15°33 | 14°19 | 5° 5 | 11°11 | 16♍35 | 15°49 | 10°24 | n.a. | M 2 |
| T 3 | 12 33 35 | 10° 5'33 | 11♋37 | 26°14 | 9°47 | 1°17 | 5°24 | 15°37 | 14°22 | 5° 7 | 11°12 | 16°D34 | 15°46 | 10°31 | n.a. | T 3 |
| W 4 | 12 37 31 | 11° 3'35 | 25°48 | 25°56 | 9°R48 | 1°30 | 5°37 | 15°42 | 14°25 | 5° 9 | 11°13 | 16°35 | 15°43 | 10°38 | n.a. | W 4 |
| T 5 | 12 41 28 | 12° 1'34 | 10♌ 8 | 25°42 | 9°46 | 1°45 | 5°51 | 15°47 | 14°28 | 5°11 | 11°14 | 16°36 | 15°40 | 10°44 | n.a. | T 5 |
| F 6 | 12 45 24 | 12°59'32 | 24°36 | 25°33 | 9°42 | 1°59 | 6° 4 | 15°52 | 14°31 | 5°13 | 11°16 | 16°38 | 15°37 | 10°51 | n.a. | F 6 |
| S 7 | 12 49 21 | 13°57'28 | 9♍ 7 | 25°D29 | 9°36 | 2°14 | 6°17 | 15°56 | 14°34 | 5°15 | 11°17 | 16°38 | 15°33 | 10°58 | n.a. | S 7 |
| S 8 | 12 53 17 | 14°55'21 | 23°37 | 25°29 | 9°27 | 2°30 | 6°31 | 16° 1 | 14°37 | 5°17 | 11°18 | 16°R38 | 15°30 | 11° 4 | n.a. | S 8 |
| M 9 | 12 57 14 | 15°53'13 | 8♎ 1 | 25°34 | 9°15 | 2°46 | 6°44 | 16° 7 | 14°40 | 5°19 | 11°19 | 16°37 | 15°27 | 11°11 | n.a. | M 9 |
| T 10 | 13 1 11 | 16°51'04 | 22°13 | 25°44 | 9° 2 | 3° 3 | 6°58 | 16°12 | 14°43 | 5°22 | 11°21 | 16°34 | 15°24 | 11°18 | n.a. | T 10 |
| W11 | 13 5 7 | 17°48'52 | 6♏ 8 | 25°58 | 8°45 | 3°20 | 7°11 | 16°17 | 14°46 | 5°24 | 11°22 | 16°30 | 15°21 | 11°24 | n.a. | W11 |
| T 12 | 13 9 4 | 18°46'40 | 19°43 | 26°17 | 8°27 | 3°37 | 7°25 | 16°22 | 14°49 | 5°26 | 11°23 | 16°25 | 15°17 | 11°31 | n.a. | T 12 |
| F 13 | 13 13 0 | 19°44'26 | 2♐56 | 26°41 | 8° 6 | 3°55 | 7°38 | 16°28 | 14°52 | 5°28 | 11°24 | 16°20 | 15°14 | 11°38 | n.a. | F 13 |
| S 14 | 13 16 57 | 20°42'11 | 15°47 | 27° 8 | 7°43 | 4°14 | 7°52 | 16°33 | 14°55 | 5°30 | 11°26 | 16°15 | 15°11 | 11°44 | n.a. | S 14 |
| S 15 | 13 20 53 | 21°39'54 | 28°18 | 27°40 | 7°18 | 4°32 | 8° 6 | 16°39 | 14°58 | 5°32 | 11°27 | 16°12 | 15° 8 | 11°51 | n.a. | S 15 |
| M16 | 13 24 50 | 22°37'36 | 10♑32 | 28°16 | 6°50 | 4°51 | 8°19 | 16°44 | 15° 1 | 5°35 | 11°28 | 16° 9 | 15° 5 | 11°58 | n.a. | M16 |
| T 17 | 13 28 46 | 23°35'17 | 22°33 | 28°56 | 6°21 | 5°11 | 8°33 | 16°50 | 15° 4 | 5°37 | 11°30 | 16°D 9 | 15° 2 | 12° 4 | n.a. | T 17 |
| W18 | 13 32 43 | 24°32'57 | 4♒25 | 29°39 | 5°50 | 5°31 | 8°47 | 16°56 | 15° 7 | 5°39 | 11°31 | 16° 9 | 14°58 | 12°11 | n.a. | W18 |
| T 19 | 13 36 39 | 25°30'36 | 16°15 | 0♈26 | 5°18 | 5°51 | 9° 0 | 17° 1 | 15°10 | 5°41 | 11°32 | 16°10 | 14°55 | 12°18 | n.a. | T 19 |
| F 20 | 13 40 36 | 26°28'13 | 28° 6 | 1°17 | 4°44 | 6°12 | 9°14 | 17° 7 | 15°12 | 5°43 | 11°34 | 16°12 | 14°52 | 12°24 | n.a. | F 20 |
| S 21 | 13 44 33 | 27°25'50 | 10♓ 4 | 2°11 | 4° 9 | 6°33 | 9°28 | 17°13 | 15°15 | 5°46 | 11°35 | 16°R13 | 14°49 | 12°31 | n.a. | S 21 |
| S 22 | 13 48 29 | 28°23'25 | 22°12 | 3° 8 | 3°33 | 6°55 | 9°42 | 17°19 | 15°18 | 5°48 | 11°36 | 16°13 | 14°46 | 12°38 | n.a. | S 22 |
| M23 | 13 52 26 | 29°20'59 | 4♈35 | 4° 8 | 2°56 | 7°16 | 9°55 | 17°25 | 15°21 | 5°50 | 11°38 | 16°11 | 14°42 | 12°44 | n.a. | M23 |
| T 24 | 13 56 22 | 0♉18'32 | 17°14 | 5°12 | 2°18 | 7°39 | 10° 9 | 17°31 | 15°23 | 5°52 | 11°39 | 16° 8 | 14°39 | 12°51 | n.a. | T 24 |
| W25 | 14 0 19 | 1°16'04 | 0♉10 | 6°19 | 1°41 | 8° 1 | 10°23 | 17°37 | 15°26 | 5°55 | 11°40 | 16° 2 | 14°36 | 12°58 | n.a. | W25 |
| T 26 | 14 4 15 | 2°13'35 | 13°23 | 7°28 | 1° 3 | 8°24 | 10°37 | 17°44 | 15°29 | 5°57 | 11°42 | 15°55 | 14°33 | 13° 4 | n.a. | T 26 |
| F 27 | 14 8 12 | 3°11'04 | 26°52 | 8°40 | 0°25 | 8°47 | 10°51 | 17°50 | 15°31 | 5°59 | 11°43 | 15°47 | 14°30 | 13°11 | n.a. | F 27 |
| S 28 | 14 12 8 | 4° 8'32 | 10♊35 | 9°56 | 29♈48 | 9°11 | 11° 5 | 17°56 | 15°34 | 6° 1 | 11°44 | 15°40 | 14°27 | 13°18 | n.a. | S 28 |
| S 29 | 14 16 5 | 5° 5'59 | 24°28 | 11°13 | 29°12 | 9°35 | 11°18 | 18° 3 | 15°36 | 6° 4 | 11°46 | 15°33 | 14°23 | 13°24 | n.a. | S 29 |
| M30 | 14 20 2 | 6♉ 3'25 | 8♋28 | 12♈34 | 28♈36 | 9♌59 | 11♉32 | 18♊ 9 | 15♓39 | 6♉ 6 | 11♉47 | 15♍28 | 14♍20 | 13♒31 | n.a. | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 3n16 | 17n31 | 5s15 | 1s 3 | 0n 8 | 20n31 | 5n58 | 22n50 | 2n43 | 12n36 | 0s46 | 22n19 | 0s36 | 6s56 | 0s44 | 11n38 | 1s49 | 4n42 | 11s11 | 5n21 | 5n38 | 14s58 | | n.a. |
| M 2 | 3 39 | 18 32 | 5 9 | 1 29 | 0s 8 | 20 33 | 5 59 | 22 45 | 2 41 | 12 41 | 0 46 | 22 19 | 0 36 | 6 55 | 0 44 | 11 39 | 1 49 | 4 42 | 11 11 | 5 21 | 5 39 | 14 57 | | n.a. |
| T 3 | 4 2 | 18 27 | 4 46 | 1 53 | 0 24 | 20 35 | 6 0 | 22 40 | 2 39 | 12 45 | 0 46 | 22 20 | 0 35 | 6 54 | 0 44 | 11 39 | 1 49 | 4 43 | 11 11 | 5 21 | 5 40 | 14 56 | | n.a. |
| W 4 | 4 25 | 17 13 | 4 4 | 2 15 | 0 40 | 20 35 | 6 0 | 22 35 | 2 36 | 12 50 | 0 45 | 22 20 | 0 35 | 6 52 | 0 44 | 11 40 | 1 49 | 4 44 | 11 11 | 5 21 | 5 42 | 14 55 | | n.a. |
| T 5 | 4 48 | 14 53 | 3 8 | 2 34 | 0 55 | 20 34 | 6 0 | 22 30 | 2 34 | 12 54 | 0 45 | 22 21 | 0 35 | 6 51 | 0 44 | 11 41 | 1 49 | 4 44 | 11 10 | 5 21 | 5 43 | 14 54 | | n.a. |
| F 6 | 5 11 | 11 37 | 1 58 | 2 51 | 1 9 | 20 32 | 5 59 | 22 24 | 2 32 | 12 59 | 0 45 | 22 22 | 0 35 | 6 50 | 0 44 | 11 42 | 1 49 | 4 45 | 11 10 | 5 20 | 5 44 | 14 53 | | n.a. |
| S 7 | 5 34 | 7 36 | 0 41 | 3 5 | 1 23 | 20 29 | 5 57 | 22 19 | 2 30 | 13 3 | 0 45 | 22 22 | 0 35 | 6 49 | 0 44 | 11 42 | 1 49 | 4 45 | 11 10 | 5 20 | 5 45 | 14 51 | | n.a. |
| S 8 | 5 57 | 3 9 | 0n38 | 3 17 | 1 36 | 20 24 | 5 56 | 22 13 | 2 28 | 13 8 | 0 45 | 22 23 | 0 35 | 6 48 | 0 44 | 11 43 | 1 49 | 4 46 | 11 10 | 5 20 | 5 47 | 14 50 | | n.a. |
| M 9 | 6 19 | 1s28 | 1 55 | 3 26 | 1 48 | 20 18 | 5 53 | 22 7 | 2 26 | 13 13 | 0 45 | 22 24 | 0 35 | 6 46 | 0 44 | 11 44 | 1 49 | 4 46 | 11 10 | 5 20 | 5 48 | 14 49 | | n.a. |
| T 10 | 6 42 | 5 55 | 3 3 | 3 32 | 1 59 | 20 11 | 5 50 | 22 1 | 2 24 | 13 17 | 0 45 | 22 24 | 0 34 | 6 45 | 0 44 | 11 45 | 1 49 | 4 47 | 11 10 | 5 21 | 5 49 | 14 48 | | n.a. |
| W11 | 7 4 | 9 58 | 3 58 | 3 36 | 2 10 | 20 2 | 5 47 | 21 55 | 2 22 | 13 22 | 0 45 | 22 25 | 0 34 | 6 44 | 0 44 | 11 45 | 1 49 | 4 47 | 11 10 | 5 23 | 5 50 | 14 47 | | n.a. |
| T 12 | 7 26 | 13 23 | 4 39 | 3 37 | 2 20 | 19 52 | 5 42 | 21 49 | 2 20 | 13 26 | 0 44 | 22 26 | 0 34 | 6 43 | 0 44 | 11 46 | 1 49 | 4 48 | 11 9 | 5 25 | 5 52 | 14 46 | | n.a. |
| F 13 | 7 48 | 16 1 | 5 4 | 3 36 | 2 28 | 19 40 | 5 38 | 21 43 | 2 18 | 13 31 | 0 44 | 22 27 | 0 34 | 6 42 | 0 44 | 11 47 | 1 49 | 4 48 | 11 9 | 5 27 | 5 53 | 14 45 | | n.a. |
| S 14 | 8 10 | 17 46 | 5 12 | 3 32 | 2 36 | 19 27 | 5 32 | 21 37 | 2 16 | 13 35 | 0 44 | 22 27 | 0 34 | 6 41 | 0 44 | 11 48 | 1 49 | 4 49 | 11 9 | 5 29 | 5 54 | 14 44 | | n.a. |
| S 15 | 8 32 | 18 36 | 5 5 | 3 26 | 2 43 | 19 13 | 5 26 | 21 30 | 2 14 | 13 40 | 0 44 | 22 28 | 0 34 | 6 39 | 0 44 | 11 48 | 1 49 | 4 49 | 11 9 | 5 30 | 5 55 | 14 42 | | n.a. |
| M16 | 8 54 | 18 33 | 4 44 | 3 17 | 2 49 | 18 58 | 5 19 | 21 24 | 2 12 | 13 45 | 0 44 | 22 29 | 0 34 | 6 38 | 0 44 | 11 49 | 1 49 | 4 50 | 11 9 | 5 31 | 5 56 | 14 41 | | n.a. |
| T 17 | 9 15 | 17 40 | 4 12 | 3 6 | 2 55 | 18 41 | 5 12 | 21 17 | 2 10 | 13 49 | 0 44 | 22 29 | 0 33 | 6 37 | 0 44 | 11 50 | 1 49 | 4 50 | 11 9 | 5 32 | 5 58 | 14 40 | | n.a. |
| W18 | 9 37 | 16 0 | 3 28 | 2 53 | 2 59 | 18 22 | 5 4 | 21 10 | 2 8 | 13 54 | 0 44 | 22 30 | 0 33 | 6 36 | 0 44 | 11 51 | 1 49 | 4 51 | 11 9 | 5 31 | 5 59 | 14 39 | | n.a. |
| T 19 | 9 58 | 13 40 | 2 36 | 2 37 | 3 3 | 18 3 | 4 55 | 21 3 | 2 6 | 13 58 | 0 44 | 22 31 | 0 33 | 6 35 | 0 44 | 11 51 | 1 49 | 4 51 | 11 9 | 5 31 | 6 0 | 14 38 | | n.a. |
| F 20 | 10 19 | 10 45 | 1 37 | 2 19 | 3 6 | 17 43 | 4 45 | 20 56 | 2 5 | 14 3 | 0 43 | 22 31 | 0 33 | 6 34 | 0 44 | 11 52 | 1 49 | 4 52 | 11 9 | 5 30 | 6 1 | 14 37 | | n.a. |
| S 21 | 10 40 | 7 22 | 0 33 | 2 0 | 3 8 | 17 21 | 4 35 | 20 49 | 2 3 | 14 7 | 0 43 | 22 32 | 0 33 | 6 33 | 0 44 | 11 53 | 1 49 | 4 52 | 11 8 | 5 30 | 6 3 | 14 36 | | n.a. |
| S 22 | 11 1 | 3 37 | 0s32 | 1 38 | 3 9 | 16 58 | 4 25 | 20 42 | 2 1 | 14 12 | 0 43 | 22 33 | 0 33 | 6 32 | 0 44 | 11 54 | 1 49 | 4 53 | 11 8 | 5 30 | 6 4 | 14 34 | | n.a. |
| M23 | 11 22 | 0n21 | 1 38 | 1 14 | 3 10 | 16 35 | 4 14 | 20 34 | 1 59 | 14 16 | 0 43 | 22 34 | 0 33 | 6 31 | 0 44 | 11 54 | 1 49 | 4 53 | 11 8 | 5 30 | 6 5 | 14 33 | | n.a. |
| T 24 | 11 42 | 4 23 | 2 40 | 0 49 | 3 10 | 16 11 | 4 2 | 20 27 | 1 57 | 14 21 | 0 43 | 22 34 | 0 32 | 6 30 | 0 44 | 11 55 | 1 49 | 4 53 | 11 8 | 5 32 | 6 6 | 14 32 | | n.a. |
| W25 | 12 3 | 8 18 | 3 35 | 0 21 | 3 9 | 15 46 | 3 50 | 20 19 | 1 55 | 14 25 | 0 43 | 22 35 | 0 32 | 6 29 | 0 44 | 11 56 | 1 49 | 4 54 | 11 8 | 5 34 | 6 8 | 14 31 | | n.a. |
| T 26 | 12 23 | 11 54 | 4 20 | 0n 8 | 3 8 | 15 21 | 3 37 | 20 12 | 1 54 | 14 30 | 0 43 | 22 36 | 0 32 | 6 28 | 0 44 | 11 57 | 1 49 | 4 54 | 11 8 | 5 37 | 6 9 | 14 30 | | n.a. |
| F 27 | 12 43 | 14 57 | 4 51 | 0 38 | 3 5 | 14 55 | 3 24 | 20 4 | 1 52 | 14 34 | 0 43 | 22 36 | 0 32 | 6 27 | 0 44 | 11 57 | 1 49 | 4 55 | 11 8 | 5 40 | 6 10 | 14 29 | | n.a. |
| S 28 | 13 2 | 17 14 | 5 6 | 1 11 | 3 3 | 14 30 | 3 11 | 19 56 | 1 50 | 14 38 | 0 43 | 22 37 | 0 32 | 6 26 | 0 44 | 11 58 | 1 49 | 4 55 | 11 8 | 5 43 | 6 11 | 14 27 | | n.a. |
| S 29 | 13 22 | 18 32 | 5 4 | 1 45 | 2 59 | 14 4 | 2 57 | 19 48 | 1 49 | 14 43 | 0 43 | 22 38 | 0 32 | 6 25 | 0 44 | 11 59 | 1 49 | 4 56 | 11 8 | 5 45 | 6 13 | 14 26 | | n.a. |
| M30 | 13n41 | 18n43 | 4s43 | 2n20 | 2s55 | 13n38 | 2n43 | 19n39 | 1n47 | 14n47 | 0s42 | 22n39 | 0s32 | 6s24 | 0s44 | 12n 0 | 1s49 | 4n56 | 11s 8 | 5n47 | 6n14 | 14s25 | | n.a. |

Julian Day Number = 1689371.5, Delta T = 03h11m18s
Ecliptic obliquity = 23°42'12, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°16'35, Lahiri = - 5°09'34 Julian Calendar 1 Apr. 88 BCE == Greg. Calendar 30 March 088 BCE

The year -87 astronomical counting style corresponds to year 088 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 88 BCE
# geocentric

## MAY 88 BCE (-87) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 23 58 | 7♉ 0'49 | 22♋34 | 13♈57 | 28°R 1 | 10♌23 | 11♉46 | 18♊16 | 15♓41 | 6♉ 8 | 11♉48 | 15°R25 | 14♍17 | 13♒38 | n.a. | T 1 |
| W 2 | 14 27 55 | 7°58'13 | 6♌43 | 15°23 | 27♈28 | 10°48 | 12° 0 | 18°22 | 15°43 | 6°10 | 11°50 | 15°D24 | 14°14 | 13°44 | n.a. | W 2 |
| T 3 | 14 31 51 | 8°55'34 | 20°53 | 16°52 | 26°56 | 11°13 | 12°14 | 18°29 | 15°46 | 6°13 | 11°51 | 15♍25 | 14°11 | 13°51 | n.a. | T 3 |
| F 4 | 14 35 48 | 9°52'54 | 5♍ 2 | 18°23 | 26°26 | 11°38 | 12°28 | 18°35 | 15°48 | 6°15 | 11°53 | 15°26 | 14° 8 | 13°58 | n.a. | F 4 |
| S 5 | 14 39 44 | 10°50'14 | 19°10 | 19°57 | 25°58 | 12° 4 | 12°42 | 18°42 | 15°50 | 6°17 | 11°54 | 15°R26 | 14° 4 | 14° 4 | n.a. | S 5 |
| S 6 | 14 43 41 | 11°47'31 | 3♎14 | 21°33 | 25°31 | 12°30 | 12°56 | 18°49 | 15°53 | 6°19 | 11°55 | 15°25 | 14° 1 | 14°11 | n.a. | S 6 |
| M 7 | 14 47 37 | 12°44'48 | 17°13 | 23°12 | 25° 7 | 12°56 | 13°10 | 18°56 | 15°55 | 6°22 | 11°57 | 15°21 | 13°58 | 14°18 | n.a. | M 7 |
| T 8 | 14 51 34 | 13°42'04 | 1♏ 1 | 24°53 | 24°45 | 13°22 | 13°23 | 19° 2 | 15°57 | 6°24 | 11°58 | 15°15 | 13°55 | 14°24 | n.a. | T 8 |
| W 9 | 14 55 31 | 14°39'19 | 14°38 | 26°37 | 24°25 | 13°49 | 13°37 | 19° 9 | 15°59 | 6°26 | 11°59 | 15° 7 | 13°52 | 14°31 | n.a. | W 9 |
| T 10 | 14 59 27 | 15°36'34 | 27°58 | 28°24 | 24° 7 | 14°16 | 13°51 | 19°16 | 16° 1 | 6°28 | 12° 1 | 14°57 | 13°48 | 14°38 | n.a. | T 10 |
| F 11 | 15 3 24 | 16°33'47 | 11♐ 2 | 0♑13 | 23°52 | 14°43 | 14° 5 | 19°23 | 16° 3 | 6°30 | 12° 2 | 14°47 | 13°45 | 14°44 | n.a. | F 11 |
| S 12 | 15 7 20 | 17°31'00 | 23°47 | 2° 4 | 23°39 | 15°11 | 14°19 | 19°30 | 16° 5 | 6°33 | 12° 4 | 14°37 | 13°42 | 14°51 | n.a. | S 12 |
| S 13 | 15 11 17 | 18°28'13 | 6♑15 | 3°58 | 23°29 | 15°38 | 14°33 | 19°37 | 16° 7 | 6°35 | 12° 5 | 14°28 | 13°39 | 14°58 | n.a. | S 13 |
| M14 | 15 15 13 | 19°25'25 | 18°27 | 5°54 | 23°21 | 16° 6 | 14°47 | 19°44 | 16° 9 | 6°37 | 12° 6 | 14°22 | 13°36 | 15° 4 | n.a. | M14 |
| T 15 | 15 19 10 | 20°22'37 | 0♒28 | 7°53 | 23°15 | 16°34 | 15° 0 | 19°52 | 16°11 | 6°39 | 12° 8 | 14°18 | 13°33 | 15°11 | n.a. | T 15 |
| W16 | 15 23 6 | 21°19'48 | 12°20 | 9°53 | 23°12 | 17° 3 | 15°14 | 19°59 | 16°13 | 6°41 | 12° 9 | 14°16 | 13°29 | 15°18 | n.a. | W16 |
| T 17 | 15 27 3 | 22°16'59 | 24° 9 | 11°56 | 23°D12 | 17°31 | 15°28 | 20° 6 | 16°15 | 6°44 | 12°10 | 14°D15 | 13°26 | 15°24 | n.a. | T 17 |
| F 18 | 15 31 0 | 23°14'10 | 6♓ 1 | 14° 0 | 23°13 | 18° 0 | 15°42 | 20°13 | 16°17 | 6°46 | 12°12 | 14°16 | 13°23 | 15°31 | n.a. | F 18 |
| S 19 | 15 34 56 | 24°11'20 | 18° 0 | 16° 6 | 23°17 | 18°29 | 15°56 | 20°20 | 16°19 | 6°48 | 12°13 | 14°R16 | 13°20 | 15°38 | n.a. | S 19 |
| S 20 | 15 38 53 | 25° 8'30 | 0♈13 | 18°14 | 23°23 | 18°58 | 16°10 | 20°28 | 16°20 | 6°50 | 12°14 | 14°15 | 13°17 | 15°44 | n.a. | S 20 |
| M21 | 15 42 49 | 26° 5'40 | 12°42 | 20°23 | 23°31 | 19°28 | 16°23 | 20°35 | 16°22 | 6°52 | 12°16 | 14°12 | 13°14 | 15°51 | n.a. | M21 |
| T 22 | 15 46 46 | 27° 2'50 | 25°32 | 22°32 | 23°42 | 19°58 | 16°37 | 20°42 | 16°24 | 6°54 | 12°17 | 14° 6 | 13°10 | 15°58 | n.a. | T 22 |
| W23 | 15 50 42 | 28° 0'00 | 8♉43 | 24°43 | 23°54 | 20°28 | 16°51 | 20°50 | 16°25 | 6°57 | 12°18 | 13°58 | 13° 7 | 16° 4 | n.a. | W23 |
| T 24 | 15 54 39 | 28°57'09 | 22°17 | 26°54 | 24° 9 | 20°58 | 17° 4 | 20°57 | 16°27 | 6°59 | 12°20 | 13°48 | 13° 4 | 16°11 | n.a. | T 24 |
| F 25 | 15 58 35 | 29°54'19 | 6♊10 | 29° 5 | 24°25 | 21°28 | 17°18 | 21° 5 | 16°28 | 7° 1 | 12°21 | 13°37 | 13° 1 | 16°18 | n.a. | F 25 |
| S 26 | 16 2 32 | 0♊51'28 | 20°19 | 1♊16 | 24°43 | 21°59 | 17°32 | 21°12 | 16°30 | 7° 3 | 12°22 | 13°25 | 12°58 | 16°24 | n.a. | S 26 |
| S 27 | 16 6 29 | 1°48'36 | 4♋38 | 3°27 | 25° 3 | 22°29 | 17°46 | 21°20 | 16°31 | 7° 5 | 12°24 | 13°16 | 12°54 | 16°31 | n.a. | S 27 |
| M28 | 16 10 25 | 2°45'45 | 19° 1 | 5°37 | 25°25 | 23° 0 | 17°59 | 21°27 | 16°32 | 7° 7 | 12°25 | 13° 8 | 12°51 | 16°38 | n.a. | M28 |
| T 29 | 16 14 22 | 3°42'53 | 3♌24 | 7°47 | 25°49 | 23°31 | 18°13 | 21°35 | 16°34 | 7° 9 | 12°26 | 13° 3 | 12°48 | 16°44 | n.a. | T 29 |
| W30 | 16 18 18 | 4°40'00 | 17°41 | 9°55 | 26°14 | 24° 3 | 18°26 | 21°42 | 16°35 | 7°11 | 12°28 | 13° 0 | 12°45 | 16°51 | n.a. | W30 |
| T 31 | 16 22 15 | 5♊37'07 | 1♍52 | 12♊ 2 | 26♈41 | 24♌34 | 18♉40 | 21♊50 | 16♓36 | 7♉13 | 12♉29 | 13♍ 0 | 12♍42 | 16♒58 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 14n 0 | 17n45 | 4s 6 | 2n57 | 2s50 | 13n12 | 2n29 | 19n31 | 1n45 | 14n52 | 0s42 | 22n39 | 0s32 | 6s23 | 0s44 | 12n 0 | 1s49 | 4n57 | 11s 8 | 5n48 | 6n15 | 14s24 | | | n.a. |
| W 2 | 14 19 | 15 41 | 3 13 | 3 35 | 2 45 | 12 47 | 2 15 | 19 23 | 1 44 | 14 56 | 0 42 | 22 40 | 0 31 | 6 22 | 0 44 | 12 1 | 1 49 | 4 57 | 11 8 | 5 49 | 6 16 | 14 23 | | | n.a. |
| T 3 | 14 38 | 12 40 | 2 8 | 4 15 | 2 39 | 12 22 | 2 1 | 19 14 | 1 42 | 15 0 | 0 42 | 22 41 | 0 31 | 6 21 | 0 44 | 12 2 | 1 49 | 4 58 | 11 8 | 5 49 | 6 18 | 14 22 | | | n.a. |
| F 4 | 14 56 | 8 54 | 0 56 | 4 56 | 2 33 | 11 58 | 1 47 | 19 5 | 1 40 | 15 5 | 0 42 | 22 41 | 0 31 | 6 20 | 0 44 | 12 3 | 1 49 | 4 58 | 11 8 | 5 48 | 6 19 | 14 20 | | | n.a. |
| S 5 | 15 14 | 4 38 | 0n20 | 5 38 | 2 26 | 11 35 | 1 33 | 18 56 | 1 39 | 15 9 | 0 42 | 22 42 | 0 31 | 6 19 | 0 44 | 12 3 | 1 49 | 4 59 | 11 8 | 5 48 | 6 20 | 14 19 | | | n.a. |
| S 6 | 15 32 | 0 8 | 1 34 | 6 22 | 2 18 | 11 12 | 1 19 | 18 48 | 1 37 | 15 14 | 0 42 | 22 43 | 0 31 | 6 19 | 0 44 | 12 4 | 1 49 | 4 59 | 11 7 | 5 49 | 6 21 | 14 18 | | | n.a. |
| M 7 | 15 50 | 4s21 | 2 42 | 7 6 | 2 10 | 10 50 | 1 5 | 18 38 | 1 36 | 15 18 | 0 42 | 22 43 | 0 31 | 6 18 | 0 44 | 12 5 | 1 49 | 4 59 | 11 7 | 5 50 | 6 22 | 14 17 | | | n.a. |
| T 8 | 16 8 | 8 32 | 3 39 | 7 51 | 2 2 | 10 29 | 0 52 | 18 29 | 1 34 | 15 22 | 0 42 | 22 44 | 0 31 | 6 17 | 0 45 | 12 5 | 1 49 | 5 0 | 11 7 | 5 52 | 6 24 | 14 16 | | | n.a. |
| W 9 | 16 25 | 12 13 | 4 23 | 8 38 | 1 53 | 10 9 | 0 38 | 18 20 | 1 32 | 15 26 | 0 42 | 22 45 | 0 31 | 6 16 | 0 45 | 12 6 | 1 49 | 5 0 | 11 7 | 5 56 | 6 25 | 14 14 | | | n.a. |
| T 10 | 16 42 | 15 12 | 4 51 | 9 25 | 1 44 | 9 51 | 0 25 | 18 11 | 1 31 | 15 31 | 0 42 | 22 45 | 0 30 | 6 15 | 0 45 | 12 7 | 1 49 | 5 1 | 11 7 | 5 59 | 6 26 | 14 13 | | | n.a. |
| F 11 | 16 58 | 17 20 | 5 3 | 10 12 | 1 34 | 9 33 | 0 12 | 18 1 | 1 29 | 15 35 | 0 41 | 22 46 | 0 30 | 6 15 | 0 45 | 12 8 | 1 49 | 5 1 | 11 7 | 6 3 | 6 27 | 14 12 | | | n.a. |
| S 12 | 17 15 | 18 33 | 5 0 | 11 1 | 1 24 | 9 17 | 0s 0 | 17 52 | 1 28 | 15 39 | 0 41 | 22 47 | 0 30 | 6 14 | 0 45 | 12 8 | 1 49 | 5 2 | 11 7 | 6 7 | 6 29 | 14 11 | | | n.a. |
| S 13 | 17 31 | 18 51 | 4 43 | 11 50 | 1 14 | 9 2 | 0 12 | 17 42 | 1 26 | 15 43 | 0 41 | 22 47 | 0 30 | 6 13 | 0 45 | 12 9 | 1 49 | 5 2 | 11 7 | 6 11 | 6 30 | 14 10 | | | n.a. |
| M14 | 17 47 | 18 15 | 4 12 | 12 39 | 1 3 | 8 48 | 0 24 | 17 32 | 1 25 | 15 48 | 0 41 | 22 48 | 0 30 | 6 12 | 0 45 | 12 10 | 1 49 | 5 2 | 11 7 | 6 13 | 6 31 | 14 8 | | | n.a. |
| T 15 | 18 2 | 16 50 | 3 31 | 13 28 | 0 52 | 8 35 | 0 36 | 17 22 | 1 23 | 15 52 | 0 41 | 22 49 | 0 30 | 6 12 | 0 45 | 12 11 | 1 49 | 5 3 | 11 7 | 6 15 | 6 32 | 14 7 | | | n.a. |
| W16 | 18 18 | 14 42 | 2 42 | 14 17 | 0 41 | 8 23 | 0 47 | 17 12 | 1 22 | 15 56 | 0 41 | 22 49 | 0 30 | 6 11 | 0 45 | 12 11 | 1 49 | 5 3 | 11 7 | 6 16 | 6 34 | 14 6 | | | n.a. |
| T 17 | 18 33 | 11 58 | 1 45 | 15 6 | 0 30 | 8 13 | 0 57 | 17 2 | 1 20 | 16 0 | 0 41 | 22 50 | 0 30 | 6 10 | 0 45 | 12 12 | 1 49 | 5 4 | 11 7 | 6 16 | 6 35 | 14 5 | | | n.a. |
| F 18 | 18 47 | 8 44 | 0 44 | 15 54 | 0 19 | 8 4 | 1 8 | 16 51 | 1 19 | 16 4 | 0 41 | 22 51 | 0 30 | 6 10 | 0 45 | 12 13 | 1 49 | 5 4 | 11 7 | 6 16 | 6 36 | 14 4 | | | n.a. |
| S 19 | 19 2 | 5 6 | 0s20 | 16 42 | 0 8 | 7 57 | 1 18 | 16 41 | 1 18 | 16 8 | 0 41 | 22 51 | 0 29 | 6 9 | 0 45 | 12 13 | 1 49 | 5 4 | 11 7 | 6 16 | 6 37 | 14 2 | | | n.a. |
| S 20 | 19 16 | 1 12 | 1 24 | 17 29 | 0n 2 | 7 50 | 1 27 | 16 30 | 1 16 | 16 12 | 0 41 | 22 52 | 0 29 | 6 8 | 0 45 | 12 14 | 1 49 | 5 5 | 11 7 | 6 16 | 6 39 | 14 1 | | | n.a. |
| M21 | 19 29 | 2n51 | 2 25 | 18 15 | 0 13 | 7 45 | 1 36 | 16 20 | 1 15 | 16 16 | 0 41 | 22 53 | 0 29 | 6 8 | 0 45 | 12 15 | 1 49 | 5 5 | 11 7 | 6 17 | 6 40 | 14 0 | | | n.a. |
| T 22 | 19 43 | 6 52 | 3 21 | 18 59 | 0 24 | 7 40 | 1 45 | 16 9 | 1 13 | 16 20 | 0 41 | 22 53 | 0 29 | 6 7 | 0 45 | 12 15 | 1 49 | 5 6 | 11 7 | 6 19 | 6 41 | 13 59 | | | n.a. |
| W23 | 19 56 | 10 40 | 4 7 | 19 42 | 0 34 | 7 37 | 1 53 | 15 58 | 1 12 | 16 24 | 0 41 | 22 54 | 0 29 | 6 6 | 0 45 | 12 16 | 1 49 | 5 6 | 11 7 | 6 23 | 6 42 | 13 57 | | | n.a. |
| T 24 | 20 9 | 14 1 | 4 41 | 20 23 | 0 43 | 7 35 | 2 1 | 15 47 | 1 11 | 16 28 | 0 40 | 22 55 | 0 29 | 6 6 | 0 45 | 12 17 | 1 49 | 5 6 | 11 7 | 6 26 | 6 43 | 13 56 | | | n.a. |
| F 25 | 20 21 | 16 40 | 4 59 | 21 2 | 0 53 | 7 34 | 2 9 | 15 36 | 1 9 | 16 32 | 0 40 | 22 55 | 0 29 | 6 5 | 0 45 | 12 18 | 1 49 | 5 7 | 11 7 | 6 31 | 6 45 | 13 55 | | | n.a. |
| S 26 | 20 33 | 18 22 | 4 59 | 21 39 | 1 2 | 7 34 | 2 16 | 15 24 | 1 8 | 16 36 | 0 40 | 22 56 | 0 29 | 6 5 | 0 45 | 12 18 | 1 49 | 5 7 | 11 7 | 6 35 | 6 46 | 13 54 | | | n.a. |
| S 27 | 20 45 | 18 56 | 4 41 | 22 13 | 1 10 | 7 35 | 2 23 | 15 13 | 1 7 | 16 40 | 0 40 | 22 56 | 0 29 | 6 4 | 0 45 | 12 19 | 1 49 | 5 7 | 11 7 | 6 39 | 6 47 | 13 52 | | | n.a. |
| M28 | 20 57 | 18 18 | 4 5 | 22 45 | 1 17 | 7 37 | 2 29 | 15 1 | 1 5 | 16 44 | 0 40 | 22 57 | 0 29 | 6 4 | 0 45 | 12 20 | 1 49 | 5 8 | 11 8 | 6 42 | 6 48 | 13 51 | | | n.a. |
| T 29 | 21 8 | 16 29 | 3 13 | 23 14 | 1 24 | 7 40 | 2 36 | 14 50 | 1 4 | 16 48 | 0 40 | 22 58 | 0 28 | 6 3 | 0 45 | 12 20 | 1 49 | 5 8 | 11 8 | 6 44 | 6 50 | 13 50 | | | n.a. |
| W30 | 21 18 | 13 39 | 2 10 | 23 41 | 1 31 | 7 44 | 2 41 | 14 38 | 1 3 | 16 52 | 0 40 | 22 58 | 0 28 | 6 3 | 0 45 | 12 21 | 1 49 | 5 8 | 11 8 | 6 45 | 6 51 | 13 49 | | | n.a. |
| T 31 | 21n29 | 10n 1 | 0s59 | 24n 4 | 1n36 | 7n49 | 2s47 | 14n26 | 1n 1 | 16n56 | 0s40 | 22n59 | 0s28 | 6s 2 | 0s45 | 12n21 | 1s49 | 5n 9 | 11s 8 | 6n45 | 6n52 | 13s47 | | | n.a. |

Julian Day Number = 1689401.5, Delta T = 03h11m17s
Ecliptic obliquity = 23°42'12, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°16'31, Lahiri = - 5°09'30 Julian Calendar 1 May 88 BCE == Greg. Calendar 29 Apr. 088 BCE

The year -87 astronomical counting style corresponds to year 088 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 88 BCE
# geocentric

## JUNE 88 BCE (-87) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 16 26 11 | 6♊34'14 | 15♍54 | 14♊ 8 | 27♈ 9 | 25♌ 6 | 18♉53 | 21♊58 | 16♓37 | 7♉15 | 12♉30 | 13°R 0 | 12♍39 | 17♒ 4 | n.a. | F 1 |
| S 2 | 16 30 8 | 7°31'20 | 29°48 | 16°12 | 27°39 | 25°37 | 19° 7 | 22° 5 | 16°38 | 7°17 | 12°32 | 12♍59 | 12°35 | 17°11 | n.a. | S 2 |
| S 3 | 16 34 5 | 8°28'26 | 13♎32 | 18°14 | 28°10 | 26° 9 | 19°20 | 22°13 | 16°40 | 7°19 | 12°33 | 12°57 | 12°32 | 17°17 | n.a. | S 3 |
| M 4 | 16 38 1 | 9°25'32 | 27° 7 | 20°15 | 28°42 | 26°42 | 19°34 | 22°20 | 16°41 | 7°21 | 12°34 | 12°52 | 12°29 | 17°24 | n.a. | M 4 |
| T 5 | 16 41 58 | 10°22'38 | 10♏32 | 22°14 | 29°16 | 27°14 | 19°47 | 22°28 | 16°42 | 7°23 | 12°35 | 12°44 | 12°26 | 17°31 | n.a. | T 5 |
| W 6 | 16 45 54 | 11°19'44 | 23°45 | 24°11 | 29°51 | 27°46 | 20° 1 | 22°36 | 16°43 | 7°25 | 12°36 | 12°34 | 12°23 | 17°37 | n.a. | W 6 |
| T 7 | 16 49 51 | 12°16'49 | 6♐46 | 26° 7 | 0♉28 | 28°19 | 20°14 | 22°44 | 16°43 | 7°27 | 12°38 | 12°22 | 12°19 | 17°44 | n.a. | T 7 |
| F 8 | 16 53 47 | 13°13'55 | 19°33 | 28° 0 | 1° 5 | 28°52 | 20°27 | 22°51 | 16°44 | 7°29 | 12°39 | 12° 9 | 12°16 | 17°51 | n.a. | F 8 |
| S 9 | 16 57 44 | 14°11'02 | 2♑ 7 | 29°51 | 1°44 | 29°25 | 20°40 | 22°59 | 16°45 | 7°31 | 12°40 | 11°56 | 12°13 | 17°57 | n.a. | S 9 |
| S 10 | 17 1 40 | 15° 8'08 | 14°26 | 1♋41 | 2°24 | 29°58 | 20°54 | 23° 7 | 16°46 | 7°33 | 12°41 | 11°45 | 12°10 | 18° 4 | n.a. | S 10 |
| M11 | 17 5 37 | 16° 5'15 | 26°33 | 3°28 | 3° 4 | 0♍31 | 21° 7 | 23°15 | 16°47 | 7°35 | 12°43 | 11°37 | 12° 7 | 18°11 | n.a. | M11 |
| T 12 | 17 9 34 | 17° 2'23 | 8♒30 | 5°14 | 3°46 | 1° 5 | 21°20 | 23°22 | 16°47 | 7°36 | 12°44 | 11°31 | 12° 4 | 18°17 | n.a. | T 12 |
| W13 | 17 13 30 | 17°59'31 | 20°20 | 6°57 | 4°29 | 1°38 | 21°33 | 23°30 | 16°48 | 7°38 | 12°45 | 11°27 | 12° 0 | 18°24 | n.a. | W13 |
| T 14 | 17 17 27 | 18°56'39 | 2♓ 8 | 8°39 | 5°13 | 2°12 | 21°46 | 23°38 | 16°48 | 7°40 | 12°46 | 11°26 | 11°57 | 18°31 | n.a. | T 14 |
| F 15 | 17 21 23 | 19°53'49 | 13°59 | 10°19 | 5°58 | 2°46 | 21°59 | 23°46 | 16°49 | 7°42 | 12°47 | 11°26 | 11°54 | 18°37 | n.a. | F 15 |
| S 16 | 17 25 20 | 20°50'59 | 25°58 | 11°56 | 6°43 | 3°20 | 22°12 | 23°53 | 16°49 | 7°44 | 12°48 | 11°26 | 11°51 | 18°44 | n.a. | S 16 |
| S 17 | 17 29 16 | 21°48'09 | 8♈10 | 13°32 | 7°30 | 3°54 | 22°25 | 24° 1 | 16°50 | 7°45 | 12°49 | 11°25 | 11°48 | 18°51 | n.a. | S 17 |
| M18 | 17 33 13 | 22°45'21 | 20°41 | 15° 6 | 8°17 | 4°29 | 22°38 | 24° 9 | 16°50 | 7°47 | 12°51 | 11°22 | 11°45 | 18°57 | n.a. | M18 |
| T 19 | 17 37 9 | 23°42'33 | 3♉35 | 16°38 | 9° 5 | 5° 3 | 22°51 | 24°17 | 16°50 | 7°49 | 12°52 | 11°17 | 11°41 | 19° 4 | n.a. | T 19 |
| W20 | 17 41 6 | 24°39'46 | 16°55 | 18° 8 | 9°53 | 5°38 | 23° 3 | 24°25 | 16°51 | 7°50 | 12°53 | 11° 9 | 11°38 | 19°11 | n.a. | W20 |
| T 21 | 17 45 3 | 25°37'00 | 0♊41 | 19°35 | 10°43 | 6°12 | 23°16 | 24°32 | 16°51 | 7°52 | 12°54 | 11° 0 | 11°35 | 19°17 | n.a. | T 21 |
| F 22 | 17 48 59 | 26°34'15 | 14°51 | 21° 1 | 11°33 | 6°47 | 23°29 | 24°40 | 16°51 | 7°54 | 12°55 | 10°49 | 11°32 | 19°24 | n.a. | F 22 |
| S 23 | 17 52 56 | 27°31'30 | 29°21 | 22°25 | 12°24 | 7°22 | 23°41 | 24°48 | 16°51 | 7°55 | 12°56 | 10°38 | 11°29 | 19°31 | n.a. | S 23 |
| S 24 | 17 56 52 | 28°28'46 | 14♋ 3 | 23°47 | 13°15 | 7°58 | 23°54 | 24°56 | 16°51 | 7°57 | 12°57 | 10°29 | 11°25 | 19°37 | n.a. | S 24 |
| M25 | 18 0 49 | 29°26'03 | 28°51 | 25° 6 | 14° 7 | 8°33 | 24° 6 | 25° 4 | 16°R51 | 7°58 | 12°58 | 10°21 | 11°22 | 19°44 | n.a. | M25 |
| T 26 | 18 4 45 | 0♋23'21 | 13♌35 | 26°24 | 15° 0 | 9° 8 | 24°19 | 25°11 | 16°51 | 8° 0 | 12°59 | 10°17 | 11°19 | 19°51 | n.a. | T 26 |
| W27 | 18 8 42 | 1°20'39 | 28°10 | 27°39 | 15°53 | 9°44 | 24°31 | 25°19 | 16°51 | 8° 1 | 13° 0 | 10°14 | 11°16 | 19°57 | n.a. | W27 |
| T 28 | 18 12 39 | 2°17'57 | 12♍32 | 28°52 | 16°47 | 10°20 | 24°43 | 25°27 | 16°51 | 8° 3 | 13° 1 | 10°D14 | 11°13 | 20° 4 | n.a. | T 28 |
| F 29 | 18 16 35 | 3°15'16 | 26°38 | 0♌ 2 | 17°41 | 10°56 | 24°56 | 25°35 | 16°51 | 8° 4 | 13° 2 | 10°R14 | 11°10 | 20°11 | n.a. | F 29 |
| S 30 | 18 20 32 | 4♋12'36 | 10♎28 | 1♌11 | 18♉36 | 11♍32 | 25♉ 8 | 25♊43 | 16♓51 | 8♉ 6 | 13♉ 3 | 10♍14 | 11♍ 6 | 20♒17 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| F 1 | 21n39 | 5n51 | 0n15 | 24n26 | 1n41 | 7n54 | 2s52 | 14n14 | 1n 0 | 16n59 | 0s40 | 22n59 | 0s28 | 6s 2 | 0s45 | 12n22 | 1s49 | 5n 9 | 11s 8 | 6n45 | 6n53 | 13s46 | | n.a. |
| S 2 | 21 48 | 1 25 | 1 28 | 24 44 | 1 46 | 8 0 | 2 57 | 14 2 | 0 59 | 17 3 | 0 40 | 23 0 | 0 28 | 6 1 | 0 45 | 12 23 | 1 49 | 5 9 | 11 8 | 6 45 | 6 55 | 13 45 | | n.a. |
| S 3 | 21 58 | 3s 2 | 2 34 | 24 59 | 1 49 | 8 7 | 3 1 | 13 50 | 0 57 | 17 7 | 0 40 | 23 0 | 0 28 | 6 1 | 0 45 | 12 23 | 1 49 | 5 10 | 11 8 | 6 46 | 6 56 | 13 44 | | n.a. |
| M 4 | 22 6 | 7 17 | 3 31 | 25 12 | 1 52 | 8 15 | 3 5 | 13 38 | 0 56 | 17 11 | 0 40 | 23 1 | 0 28 | 6 1 | 0 45 | 12 24 | 1 49 | 5 10 | 11 8 | 6 48 | 6 57 | 13 42 | | n.a. |
| T 5 | 22 15 | 11 7 | 4 15 | 25 22 | 1 54 | 8 23 | 3 9 | 13 26 | 0 55 | 17 14 | 0 40 | 23 2 | 0 28 | 6 0 | 0 45 | 12 25 | 1 49 | 5 10 | 11 8 | 6 51 | 6 58 | 13 41 | | n.a. |
| W 6 | 22 23 | 14 19 | 4 45 | 25 30 | 1 56 | 8 32 | 3 13 | 13 13 | 0 54 | 17 18 | 0 40 | 23 2 | 0 28 | 6 0 | 0 45 | 12 25 | 1 49 | 5 11 | 11 8 | 6 55 | 6 59 | 13 40 | | n.a. |
| T 7 | 22 31 | 16 46 | 4 59 | 25 35 | 1 56 | 8 42 | 3 16 | 13 0 | 0 52 | 17 22 | 0 40 | 23 3 | 0 28 | 6 0 | 0 46 | 12 26 | 1 49 | 5 11 | 11 8 | 7 0 | 7 1 | 13 39 | | n.a. |
| F 8 | 22 38 | 18 20 | 4 58 | 25 38 | 1 56 | 8 52 | 3 20 | 12 48 | 0 51 | 17 25 | 0 40 | 23 3 | 0 27 | 5 59 | 0 46 | 12 26 | 1 49 | 5 11 | 11 8 | 7 5 | 7 2 | 13 37 | | n.a. |
| S 9 | 22 45 | 18 59 | 4 42 | 25 38 | 1 56 | 9 3 | 3 22 | 12 35 | 0 50 | 17 29 | 0 40 | 23 4 | 0 27 | 5 59 | 0 46 | 12 27 | 1 49 | 5 11 | 11 8 | 7 10 | 7 3 | 13 36 | | n.a. |
| S 10 | 22 52 | 18 43 | 4 14 | 25 36 | 1 55 | 9 14 | 3 25 | 12 22 | 0 49 | 17 33 | 0 39 | 23 4 | 0 27 | 5 59 | 0 46 | 12 28 | 1 49 | 5 12 | 11 8 | 7 14 | 7 4 | 13 35 | | n.a. |
| M11 | 22 58 | 17 35 | 3 34 | 25 32 | 1 53 | 9 26 | 3 27 | 12 9 | 0 48 | 17 36 | 0 39 | 23 5 | 0 27 | 5 59 | 0 46 | 12 28 | 1 49 | 5 12 | 11 8 | 7 17 | 7 6 | 13 34 | | n.a. |
| T 12 | 23 4 | 15 41 | 2 45 | 25 26 | 1 50 | 9 38 | 3 30 | 11 56 | 0 46 | 17 40 | 0 39 | 23 5 | 0 27 | 5 58 | 0 46 | 12 29 | 1 49 | 5 12 | 11 9 | 7 19 | 7 7 | 13 32 | | n.a. |
| W13 | 23 9 | 13 8 | 1 49 | 25 18 | 1 47 | 9 50 | 3 31 | 11 43 | 0 45 | 17 43 | 0 39 | 23 6 | 0 27 | 5 58 | 0 46 | 12 29 | 1 49 | 5 12 | 11 9 | 7 21 | 7 8 | 13 31 | | n.a. |
| T 14 | 23 14 | 10 4 | 0 49 | 25 9 | 1 44 | 10 3 | 3 33 | 11 29 | 0 44 | 17 47 | 0 39 | 23 6 | 0 27 | 5 58 | 0 46 | 12 30 | 1 49 | 5 13 | 11 9 | 7 21 | 7 9 | 13 30 | | n.a. |
| F 15 | 23 19 | 6 35 | 0s14 | 24 57 | 1 40 | 10 17 | 3 35 | 11 16 | 0 43 | 17 50 | 0 39 | 23 7 | 0 27 | 5 58 | 0 46 | 12 30 | 1 49 | 5 13 | 11 9 | 7 21 | 7 10 | 13 28 | | n.a. |
| S 16 | 23 23 | 2 47 | 1 16 | 24 44 | 1 35 | 10 31 | 3 36 | 11 2 | 0 42 | 17 53 | 0 39 | 23 7 | 0 27 | 5 58 | 0 46 | 12 31 | 1 49 | 5 13 | 11 9 | 7 21 | 7 12 | 13 27 | | n.a. |
| S 17 | 23 27 | 1n11 | 2 17 | 24 30 | 1 30 | 10 45 | 3 37 | 10 49 | 0 41 | 17 57 | 0 39 | 23 7 | 0 27 | 5 58 | 0 46 | 12 31 | 1 50 | 5 13 | 11 9 | 7 22 | 7 13 | 13 26 | | n.a. |
| M18 | 23 30 | 5 12 | 3 12 | 24 14 | 1 24 | 10 59 | 3 38 | 10 35 | 0 39 | 18 0 | 0 39 | 23 8 | 0 26 | 5 57 | 0 46 | 12 32 | 1 50 | 5 13 | 11 9 | 7 23 | 7 14 | 13 25 | | n.a. |
| T 19 | 23 33 | 9 6 | 4 0 | 23 57 | 1 18 | 11 14 | 3 38 | 10 21 | 0 38 | 18 3 | 0 39 | 23 8 | 0 26 | 5 57 | 0 46 | 12 32 | 1 50 | 5 14 | 11 9 | 7 25 | 7 15 | 13 23 | | n.a. |
| W20 | 23 36 | 12 40 | 4 36 | 23 39 | 1 12 | 11 29 | 3 39 | 10 7 | 0 37 | 18 7 | 0 39 | 23 9 | 0 26 | 5 57 | 0 46 | 12 33 | 1 50 | 5 14 | 11 9 | 7 28 | 7 17 | 13 22 | | n.a. |
| T 21 | 23 38 | 15 40 | 4 57 | 23 19 | 1 5 | 11 44 | 3 39 | 9 53 | 0 36 | 18 10 | 0 39 | 23 9 | 0 26 | 5 57 | 0 46 | 12 33 | 1 50 | 5 14 | 11 10 | 7 31 | 7 18 | 13 21 | | n.a. |
| F 22 | 23 39 | 17 51 | 5 1 | 22 59 | 0 57 | 11 59 | 3 39 | 9 39 | 0 35 | 18 13 | 0 39 | 23 10 | 0 26 | 5 57 | 0 46 | 12 34 | 1 50 | 5 14 | 11 10 | 7 35 | 7 19 | 13 19 | | n.a. |
| S 23 | 23 41 | 18 56 | 4 46 | 22 38 | 0 50 | 12 15 | 3 39 | 9 25 | 0 34 | 18 16 | 0 39 | 23 10 | 0 26 | 5 57 | 0 46 | 12 34 | 1 50 | 5 14 | 11 10 | 7 39 | 7 20 | 13 18 | | n.a. |
| S 24 | 23 42 | 18 46 | 4 12 | 22 16 | 0 41 | 12 31 | 3 39 | 9 11 | 0 33 | 18 20 | 0 39 | 23 10 | 0 26 | 5 57 | 0 46 | 12 35 | 1 50 | 5 15 | 11 10 | 7 43 | 7 21 | 13 17 | | n.a. |
| M25 | 23 42 | 17 20 | 3 21 | 21 53 | 0 33 | 12 47 | 3 38 | 8 56 | 0 32 | 18 23 | 0 39 | 23 11 | 0 26 | 5 57 | 0 46 | 12 35 | 1 50 | 5 15 | 11 10 | 7 46 | 7 23 | 13 15 | | n.a. |
| T 26 | 23 42 | 14 45 | 2 17 | 21 30 | 0 24 | 13 3 | 3 38 | 8 42 | 0 31 | 18 26 | 0 39 | 23 11 | 0 26 | 5 57 | 0 46 | 12 36 | 1 50 | 5 15 | 11 10 | 7 48 | 7 24 | 13 14 | | n.a. |
| W27 | 23 42 | 11 15 | 1 4 | 21 6 | 0 14 | 13 19 | 3 37 | 8 27 | 0 29 | 18 29 | 0 39 | 23 11 | 0 26 | 5 57 | 0 46 | 12 36 | 1 50 | 5 15 | 11 10 | 7 49 | 7 25 | 13 13 | | n.a. |
| T 28 | 23 41 | 7 7 | 0n12 | 20 41 | 0 5 | 13 35 | 3 36 | 8 13 | 0 28 | 18 32 | 0 39 | 23 12 | 0 26 | 5 57 | 0 46 | 12 37 | 1 50 | 5 15 | 11 10 | 7 49 | 7 26 | 13 11 | | n.a. |
| F 29 | 23 40 | 2 40 | 1 26 | 20 17 | 0s 5 | 13 51 | 3 35 | 7 58 | 0 27 | 18 35 | 0 39 | 23 12 | 0 26 | 5 57 | 0 46 | 12 37 | 1 50 | 5 15 | 11 11 | 7 49 | 7 28 | 13 10 | | n.a. |
| S 30 | 23n38 | 1s50 | 2n34 | 19n52 | 0s16 | 14n 7 | 3s34 | 7n43 | 0n26 | 18n38 | 0s39 | 23n13 | 0s25 | 5s58 | 0s46 | 12n38 | 1s50 | 5n16 | 11s11 | 7n49 | 7n29 | 13s 9 | | n.a. |

Julian Day Number = 1689432.5, Delta T = 03h11m16s
Ecliptic obliquity = 23°42'11, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°16'27, Lahiri = - 5°09'26 Julian Calendar 1 June 88 BCE == Greg. Calendar 30 May 088 BCE

The year -87 astronomical counting style corresponds to year 088 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 88 BCE
# geocentric

## JULY 88 BCE (-87) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 24 28 | 5♋ 9'56 | 24♎ 2 | 2♌16 | 19♉31 | 12♍ 8 | 25♉20 | 25♊50 | 16°R50 | 8♉ 7 | 13♉ 4 | 10°R13 | 11♍ 3 | 20♒24 | n.a. | S 1 |
| M 2 | 18 28 25 | 6° 7'17 | 7♏22 | 3°19 | 20°27 | 12°44 | 25°32 | 25°58 | 16♓50 | 8° 9 | 13° 5 | 10♍ 9 | 11° 0 | 20°31 | n.a. | M 2 |
| T 3 | 18 32 21 | 7° 4'38 | 20°27 | 4°19 | 21°23 | 13°20 | 25°44 | 26° 6 | 16°50 | 8°10 | 13° 5 | 10° 3 | 10°57 | 20°37 | n.a. | T 3 |
| W 4 | 18 36 18 | 8° 2'01 | 3♐21 | 5°17 | 22°20 | 13°57 | 25°56 | 26°13 | 16°49 | 8°11 | 13° 6 | 9°54 | 10°54 | 20°44 | n.a. | W 4 |
| T 5 | 18 40 14 | 8°59'24 | 16° 2 | 6°11 | 23°17 | 14°33 | 26° 8 | 26°21 | 16°49 | 8°13 | 13° 7 | 9°44 | 10°51 | 20°51 | n.a. | T 5 |
| F 6 | 18 44 11 | 9°56'49 | 28°32 | 7° 3 | 24°15 | 15°10 | 26°19 | 26°29 | 16°48 | 8°14 | 13° 8 | 9°33 | 10°47 | 20°57 | n.a. | F 6 |
| S 7 | 18 48 8 | 10°54'14 | 10♑50 | 7°51 | 25°13 | 15°47 | 26°31 | 26°36 | 16°48 | 8°15 | 13° 9 | 9°23 | 10°44 | 21° 4 | n.a. | S 7 |
| S 8 | 18 52 4 | 11°51'41 | 22°59 | 8°35 | 26°12 | 16°24 | 26°43 | 26°44 | 16°47 | 8°16 | 13°10 | 9°14 | 10°41 | 21°11 | n.a. | S 8 |
| M 9 | 18 56 1 | 12°49'09 | 4♒58 | 9°17 | 27°10 | 17° 1 | 26°54 | 26°52 | 16°47 | 8°18 | 13°10 | 9° 7 | 10°38 | 21°17 | n.a. | M 9 |
| T 10 | 18 59 57 | 13°46'38 | 16°50 | 9°54 | 28°10 | 17°38 | 27° 6 | 26°59 | 16°46 | 8°19 | 13°11 | 9° 2 | 10°35 | 21°24 | n.a. | T 10 |
| W11 | 19 3 54 | 14°44'08 | 28°38 | 10°27 | 29° 9 | 18°15 | 27°17 | 27° 7 | 16°45 | 8°20 | 13°12 | 8°59 | 10°31 | 21°30 | n.a. | W11 |
| T 12 | 19 7 50 | 15°41'40 | 10♓25 | 10°57 | 0♊ 9 | 18°53 | 27°28 | 27°14 | 16°44 | 8°21 | 13°13 | 8°D59 | 10°28 | 21°37 | n.a. | T 12 |
| F 13 | 19 11 47 | 16°39'13 | 22°15 | 11°22 | 1°10 | 19°30 | 27°40 | 27°22 | 16°44 | 8°22 | 13°13 | 8°59 | 10°25 | 21°44 | n.a. | F 13 |
| S 14 | 19 15 43 | 17°36'48 | 4♈14 | 11°42 | 2°10 | 20° 8 | 27°51 | 27°29 | 16°43 | 8°23 | 13°14 | 9° 1 | 10°22 | 21°50 | n.a. | S 14 |
| S 15 | 19 19 40 | 18°34'24 | 16°25 | 11°57 | 3°11 | 20°46 | 28° 2 | 27°37 | 16°42 | 8°24 | 13°15 | 9°R 1 | 10°19 | 21°57 | n.a. | S 15 |
| M16 | 19 23 37 | 19°32'02 | 28°54 | 12° 8 | 4°13 | 21°23 | 28°13 | 27°44 | 16°41 | 8°25 | 13°15 | 9° 1 | 10°16 | 22° 4 | n.a. | M16 |
| T 17 | 19 27 33 | 20°29'42 | 11♉47 | 12°R13 | 5°15 | 22° 1 | 28°24 | 27°52 | 16°40 | 8°26 | 13°16 | 8°59 | 10°12 | 22°10 | n.a. | T 17 |
| W18 | 19 31 30 | 21°27'23 | 25° 5 | 12°13 | 6°17 | 22°40 | 28°34 | 27°59 | 16°39 | 8°27 | 13°17 | 8°55 | 10° 9 | 22°17 | n.a. | W18 |
| T 19 | 19 35 26 | 22°25'07 | 8♊52 | 12° 8 | 7°19 | 23°18 | 28°45 | 28° 7 | 16°38 | 8°28 | 13°17 | 8°49 | 10° 6 | 22°24 | n.a. | T 19 |
| F 20 | 19 39 23 | 23°22'52 | 23° 7 | 11°56 | 8°21 | 23°56 | 28°56 | 28°14 | 16°37 | 8°29 | 13°18 | 8°42 | 10° 3 | 22°30 | n.a. | F 20 |
| S 21 | 19 43 19 | 24°20'38 | 7♋46 | 11°39 | 9°24 | 24°34 | 29° 6 | 28°21 | 16°35 | 8°30 | 13°18 | 8°35 | 10° 0 | 22°37 | n.a. | S 21 |
| S 22 | 19 47 16 | 25°18'26 | 22°42 | 11°17 | 10°27 | 25°13 | 29°16 | 28°28 | 16°34 | 8°30 | 13°19 | 8°29 | 9°57 | 22°44 | n.a. | S 22 |
| M23 | 19 51 12 | 26°16'16 | 7♌47 | 10°48 | 11°31 | 25°52 | 29°27 | 28°36 | 16°33 | 8°31 | 13°19 | 8°25 | 9°53 | 22°50 | n.a. | M23 |
| T 24 | 19 55 9 | 27°14'07 | 22°51 | 10°15 | 12°35 | 26°30 | 29°37 | 28°43 | 16°32 | 8°32 | 13°20 | 8°22 | 9°50 | 22°57 | n.a. | T 24 |
| W25 | 19 59 6 | 28°12'00 | 7♍46 | 9°36 | 13°38 | 27° 9 | 29°47 | 28°50 | 16°30 | 8°33 | 13°20 | 8°D21 | 9°47 | 23° 4 | n.a. | W25 |
| T 26 | 20 3 2 | 29° 9'53 | 22°25 | 8°52 | 14°43 | 27°48 | 29°57 | 28°57 | 16°29 | 8°33 | 13°21 | 8°21 | 9°44 | 23°10 | n.a. | T 26 |
| F 27 | 20 6 59 | 0♌ 7'49 | 6♎43 | 8° 5 | 15°47 | 28°27 | 0♊ 7 | 29° 4 | 16°27 | 8°34 | 13°21 | 8°23 | 9°41 | 23°17 | n.a. | F 27 |
| S 28 | 20 10 55 | 1° 5'45 | 20°40 | 7°14 | 16°52 | 29° 6 | 0°17 | 29°11 | 16°26 | 8°35 | 13°22 | 8°24 | 9°37 | 23°24 | n.a. | S 28 |
| S 29 | 20 14 52 | 2° 3'43 | 4♏14 | 6°20 | 17°57 | 29°46 | 0°26 | 29°18 | 16°24 | 8°35 | 13°22 | 8°R24 | 9°34 | 23°30 | n.a. | S 29 |
| M30 | 20 18 48 | 3° 1'43 | 17°28 | 5°25 | 19° 2 | 0♎25 | 0°36 | 29°25 | 16°23 | 8°36 | 13°23 | 8°23 | 9°31 | 23°37 | n.a. | M30 |
| T 31 | 20 22 45 | 3♌59'43 | 0♐24 | 4♌29 | 20♊ 7 | 1♎ 5 | 0♊45 | 29♊32 | 16♓21 | 8♉36 | 13♉23 | 8♍21 | 9♍28 | 23♒44 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| S 1 | 23n36 | 6s 9 | 3n31 | 19n27 | 0s26 | 14n23 | 3s33 | 7n28 | 0n25 | 18n41 | 0s39 | 23n13 | 0s25 | 5s58 | 0s46 | 12n38 | 1s50 | 5n16 | 11s11 | 7n49 | 7n30 | 13s 7 | | | n.a. |
| M 2 | 23 34 | 10 5 | 4 16 | 19 2 | 0 37 | 14 40 | 3 31 | 7 13 | 0 24 | 18 44 | 0 39 | 23 13 | 0 25 | 5 58 | 0 46 | 12 38 | 1 50 | 5 16 | 11 11 | 7 51 | 7 31 | 13 6 | | | n.a. |
| T 3 | 23 31 | 13 27 | 4 47 | 18 37 | 0 48 | 14 56 | 3 30 | 6 58 | 0 23 | 18 47 | 0 39 | 23 13 | 0 25 | 5 58 | 0 46 | 12 39 | 1 50 | 5 16 | 11 11 | 7 53 | 7 32 | 13 5 | | | n.a. |
| W 4 | 23 27 | 16 7 | 5 2 | 18 12 | 0 59 | 15 12 | 3 28 | 6 43 | 0 22 | 18 50 | 0 39 | 23 14 | 0 25 | 5 58 | 0 47 | 12 39 | 1 50 | 5 16 | 11 11 | 7 56 | 7 34 | 13 3 | | | n.a. |
| T 5 | 23 24 | 17 57 | 5 2 | 17 47 | 1 11 | 15 28 | 3 26 | 6 28 | 0 21 | 18 52 | 0 39 | 23 14 | 0 25 | 5 58 | 0 47 | 12 40 | 1 50 | 5 16 | 11 12 | 8 0 | 7 35 | 13 2 | | | n.a. |
| F 6 | 23 20 | 18 54 | 4 48 | 17 23 | 1 23 | 15 44 | 3 25 | 6 13 | 0 20 | 18 55 | 0 38 | 23 14 | 0 25 | 5 59 | 0 47 | 12 40 | 1 50 | 5 16 | 11 12 | 8 4 | 7 36 | 13 1 | | | n.a. |
| S 7 | 23 15 | 18 56 | 4 20 | 16 59 | 1 34 | 16 0 | 3 23 | 5 57 | 0 19 | 18 58 | 0 38 | 23 15 | 0 25 | 5 59 | 0 47 | 12 40 | 1 50 | 5 16 | 11 12 | 8 8 | 7 37 | 12 59 | | | n.a. |
| S 8 | 23 10 | 18 6 | 3 41 | 16 36 | 1 46 | 16 16 | 3 20 | 5 42 | 0 18 | 19 1 | 0 38 | 23 15 | 0 25 | 5 59 | 0 47 | 12 41 | 1 50 | 5 16 | 11 12 | 8 12 | 7 38 | 12 58 | | | n.a. |
| M 9 | 23 5 | 16 27 | 2 52 | 16 14 | 1 59 | 16 32 | 3 18 | 5 27 | 0 17 | 19 3 | 0 38 | 23 15 | 0 25 | 5 59 | 0 47 | 12 41 | 1 51 | 5 16 | 11 12 | 8 14 | 7 40 | 12 57 | | | n.a. |
| T 10 | 22 59 | 14 7 | 1 56 | 15 52 | 2 11 | 16 47 | 3 16 | 5 11 | 0 16 | 19 6 | 0 38 | 23 15 | 0 25 | 6 0 | 0 47 | 12 41 | 1 51 | 5 16 | 11 12 | 8 16 | 7 41 | 12 55 | | | n.a. |
| W11 | 22 53 | 11 13 | 0 55 | 15 31 | 2 23 | 17 3 | 3 13 | 4 55 | 0 15 | 19 9 | 0 38 | 23 16 | 0 25 | 6 0 | 0 47 | 12 42 | 1 51 | 5 17 | 11 13 | 8 17 | 7 42 | 12 54 | | | n.a. |
| T 12 | 22 46 | 7 52 | 0s 8 | 15 12 | 2 35 | 17 18 | 3 11 | 4 40 | 0 14 | 19 11 | 0 38 | 23 16 | 0 25 | 6 0 | 0 47 | 12 42 | 1 51 | 5 17 | 11 13 | 8 17 | 7 43 | 12 53 | | | n.a. |
| F 13 | 22 39 | 4 11 | 1 11 | 14 53 | 2 47 | 17 33 | 3 8 | 4 24 | 0 13 | 19 14 | 0 38 | 23 16 | 0 24 | 6 1 | 0 47 | 12 42 | 1 51 | 5 17 | 11 13 | 8 17 | 7 45 | 12 51 | | | n.a. |
| S 14 | 22 32 | 0 19 | 2 12 | 14 36 | 2 59 | 17 48 | 3 6 | 4 8 | 0 12 | 19 17 | 0 38 | 23 16 | 0 24 | 6 1 | 0 47 | 12 42 | 1 51 | 5 17 | 11 13 | 8 17 | 7 46 | 12 50 | | | n.a. |
| S 15 | 22 24 | 3n38 | 3 8 | 14 21 | 3 10 | 18 2 | 3 3 | 3 52 | 0 11 | 19 19 | 0 38 | 23 17 | 0 24 | 6 2 | 0 47 | 12 43 | 1 51 | 5 17 | 11 13 | 8 16 | 7 47 | 12 49 | | | n.a. |
| M16 | 22 16 | 7 31 | 3 57 | 14 7 | 3 22 | 18 17 | 3 0 | 3 36 | 0 10 | 19 22 | 0 38 | 23 17 | 0 24 | 6 2 | 0 47 | 12 43 | 1 51 | 5 17 | 11 13 | 8 17 | 7 48 | 12 47 | | | n.a. |
| T 17 | 22 7 | 11 10 | 4 35 | 13 55 | 3 33 | 18 31 | 2 57 | 3 20 | 0 9 | 19 24 | 0 38 | 23 17 | 0 24 | 6 2 | 0 47 | 12 43 | 1 51 | 5 17 | 11 14 | 8 17 | 7 49 | 12 46 | | | n.a. |
| W18 | 21 58 | 14 24 | 5 0 | 13 45 | 3 43 | 18 44 | 2 54 | 3 4 | 0 8 | 19 26 | 0 38 | 23 17 | 0 24 | 6 3 | 0 47 | 12 44 | 1 51 | 5 17 | 11 14 | 8 19 | 7 51 | 12 44 | | | n.a. |
| T 19 | 21 49 | 16 56 | 5 9 | 13 37 | 3 53 | 18 58 | 2 51 | 2 48 | 0 7 | 19 29 | 0 38 | 23 17 | 0 24 | 6 3 | 0 47 | 12 44 | 1 51 | 5 17 | 11 14 | 8 21 | 7 52 | 12 43 | | | n.a. |
| F 20 | 21 39 | 18 32 | 4 59 | 13 32 | 4 2 | 19 11 | 2 48 | 2 32 | 0 6 | 19 31 | 0 38 | 23 18 | 0 24 | 6 4 | 0 47 | 12 44 | 1 51 | 5 17 | 11 14 | 8 24 | 7 53 | 12 42 | | | n.a. |
| S 21 | 21 29 | 18 59 | 4 30 | 13 28 | 4 10 | 19 24 | 2 44 | 2 16 | 0 5 | 19 33 | 0 38 | 23 18 | 0 24 | 6 4 | 0 47 | 12 44 | 1 51 | 5 17 | 11 14 | 8 26 | 7 54 | 12 40 | | | n.a. |
| S 22 | 21 19 | 18 7 | 3 42 | 13 28 | 4 17 | 19 36 | 2 41 | 1 59 | 0 4 | 19 36 | 0 38 | 23 18 | 0 24 | 6 5 | 0 47 | 12 44 | 1 51 | 5 17 | 11 15 | 8 29 | 7 55 | 12 39 | | | n.a. |
| M23 | 21 8 | 15 59 | 2 38 | 13 29 | 4 23 | 19 48 | 2 38 | 1 43 | 0 4 | 19 38 | 0 38 | 23 18 | 0 24 | 6 5 | 0 47 | 12 45 | 1 51 | 5 17 | 11 15 | 8 30 | 7 57 | 12 38 | | | n.a. |
| T 24 | 20 57 | 12 44 | 1 23 | 13 34 | 4 28 | 20 0 | 2 34 | 1 27 | 0 3 | 19 40 | 0 38 | 23 18 | 0 24 | 6 6 | 0 47 | 12 45 | 1 51 | 5 17 | 11 15 | 8 31 | 7 58 | 12 36 | | | n.a. |
| W25 | 20 45 | 8 42 | 0 3 | 13 41 | 4 31 | 20 12 | 2 31 | 1 10 | 0 2 | 19 42 | 0 38 | 23 18 | 0 24 | 6 6 | 0 47 | 12 45 | 1 51 | 5 17 | 11 15 | 8 32 | 7 59 | 12 35 | | | n.a. |
| T 26 | 20 33 | 4 12 | 1n16 | 13 51 | 4 33 | 20 23 | 2 27 | 0 54 | 0 1 | 19 45 | 0 38 | 23 18 | 0 23 | 6 7 | 0 47 | 12 45 | 1 51 | 5 16 | 11 15 | 8 32 | 8 0 | 12 33 | | | n.a. |
| F 27 | 20 21 | 0s26 | 2 28 | 14 3 | 4 33 | 20 33 | 2 24 | 0 37 | 0s 0 | 19 47 | 0 38 | 23 19 | 0 23 | 6 8 | 0 47 | 12 45 | 1 52 | 5 16 | 11 15 | 8 31 | 8 2 | 12 32 | | | n.a. |
| S 28 | 20 8 | 4 55 | 3 30 | 14 18 | 4 31 | 20 43 | 2 20 | 0 21 | 0 1 | 19 49 | 0 38 | 23 19 | 0 23 | 6 8 | 0 47 | 12 45 | 1 52 | 5 16 | 11 16 | 8 31 | 8 3 | 12 31 | | | n.a. |
| S 29 | 19 55 | 9 1 | 4 19 | 14 35 | 4 27 | 20 53 | 2 16 | 0 4 | 0 2 | 19 51 | 0 38 | 23 19 | 0 23 | 6 9 | 0 47 | 12 46 | 1 52 | 5 16 | 11 16 | 8 30 | 8 4 | 12 29 | | | n.a. |
| M30 | 19 42 | 12 34 | 4 52 | 14 54 | 4 22 | 21 2 | 2 13 | 0s13 | 0 3 | 19 53 | 0 38 | 23 19 | 0 23 | 6 9 | 0 47 | 12 46 | 1 52 | 5 16 | 11 16 | 8 31 | 8 5 | 12 28 | | | n.a. |
| T 31 | 19n28 | 15s25 | 5n 9 | 15n14 | 4s14 | 21n11 | 2s 9 | 0s29 | 0s 4 | 19n55 | 0s38 | 23n19 | 0s23 | 6s10 | 0s47 | 12n46 | 1s52 | 5n16 | 11s16 | 8n32 | 8n 6 | 12s26 | | | n.a. |

Julian Day Number = 1689462.5, Delta T = 03h11m15s
Ecliptic obliquity = 23°42'11, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°16'22, Lahiri = - 5°09'22 Julian Calendar 1 July 88 BCE == Greg. Calendar 29 June 088 BCE

The year -87 astronomical counting style corresponds to year 088 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 88 BCE
# geocentric

## AUGUST 88 BCE (-87) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 20 26 41 | 4♌57'46 | 13♐ 3 | 3°R34 | 21♊13 | 1♎44 | 0♊54 | 29♊39 | 16°R20 | 8♉37 | 13♉23 | 8°R17 | 9♍25 | 23♒50 | n.a. | W 1 |
| T 2 | 20 30 38 | 5°55'50 | 25°30 | 2♌40 | 22°18 | 2°24 | 1° 4 | 29°46 | 16♓18 | 8°37 | 13°24 | 8♍12 | 9°22 | 23°57 | n.a. | T 2 |
| F 3 | 20 34 35 | 6°53'55 | 7♑45 | 1°50 | 23°24 | 3° 3 | 1°13 | 29°53 | 16°16 | 8°38 | 13°24 | 8° 6 | 9°18 | 24° 3 | n.a. | F 3 |
| S 4 | 20 38 31 | 7°52'03 | 19°51 | 1° 4 | 24°30 | 3°43 | 1°22 | 29°59 | 16°15 | 8°38 | 13°24 | 8° 1 | 9°15 | 24°10 | n.a. | S 4 |
| S 5 | 20 42 28 | 8°50'11 | 1♒49 | 0°23 | 25°37 | 4°23 | 1°31 | 0♋ 6 | 16°13 | 8°38 | 13°24 | 7°57 | 9°12 | 24°17 | n.a. | S 5 |
| M 6 | 20 46 24 | 9°48'22 | 13°41 | 29♋49 | 26°43 | 5° 3 | 1°39 | 0°13 | 16°11 | 8°39 | 13°25 | 7°53 | 9° 9 | 24°23 | n.a. | M 6 |
| T 7 | 20 50 21 | 10°46'35 | 25°30 | 29°21 | 27°50 | 5°43 | 1°48 | 0°19 | 16° 9 | 8°39 | 13°25 | 7°51 | 9° 6 | 24°30 | n.a. | T 7 |
| W 8 | 20 54 17 | 11°44'49 | 7♓17 | 29° 1 | 28°57 | 6°24 | 1°56 | 0°26 | 16° 7 | 8°39 | 13°25 | 7°D50 | 9° 3 | 24°37 | n.a. | W 8 |
| T 9 | 20 58 14 | 12°43'06 | 19° 6 | 28°50 | 0♌ 4 | 7° 4 | 2° 5 | 0°32 | 16° 6 | 8°39 | 13°25 | 7°51 | 8°59 | 24°43 | n.a. | T 9 |
| F 10 | 21 2 10 | 13°41'24 | 0♈58 | 28°D47 | 1°12 | 7°44 | 2°13 | 0°39 | 16° 4 | 8°40 | 13°25 | 7°52 | 8°56 | 24°50 | n.a. | F 10 |
| S 11 | 21 6 7 | 14°39'45 | 12°59 | 28°54 | 2°19 | 8°25 | 2°21 | 0°45 | 16° 2 | 8°40 | 13°26 | 7°54 | 8°53 | 24°57 | n.a. | S 11 |
| S 12 | 21 10 3 | 15°38'07 | 25°11 | 29° 9 | 3°27 | 9° 5 | 2°29 | 0°52 | 16° 0 | 8°40 | 13°26 | 7°55 | 8°50 | 25° 3 | n.a. | S 12 |
| M13 | 21 14 0 | 16°36'32 | 7♉39 | 29°33 | 4°35 | 9°46 | 2°37 | 0°58 | 15°58 | 8°40 | 13°26 | 7°56 | 8°47 | 25°10 | n.a. | M13 |
| T 14 | 21 17 57 | 17°35'00 | 20°28 | 0♌ 7 | 5°43 | 10°27 | 2°44 | 1° 4 | 15°56 | 8°40 | 13°26 | 7°R57 | 8°43 | 25°17 | n.a. | T 14 |
| W15 | 21 21 53 | 18°33'29 | 3♊41 | 0°48 | 6°51 | 11° 8 | 2°52 | 1°10 | 15°54 | 8°R40 | 13°26 | 7°56 | 8°40 | 25°23 | n.a. | W15 |
| T 16 | 21 25 50 | 19°32'01 | 17°21 | 1°38 | 7°59 | 11°49 | 2°59 | 1°16 | 15°51 | 8°40 | 13°26 | 7°55 | 8°37 | 25°30 | n.a. | T 16 |
| F 17 | 21 29 46 | 20°30'35 | 1♋28 | 2°36 | 9° 8 | 12°30 | 3° 6 | 1°22 | 15°49 | 8°40 | 13°R26 | 7°53 | 8°34 | 25°37 | n.a. | F 17 |
| S 18 | 21 33 43 | 21°29'12 | 16° 1 | 3°41 | 10°17 | 13°11 | 3°14 | 1°28 | 15°47 | 8°40 | 13°26 | 7°50 | 8°31 | 25°43 | n.a. | S 18 |
| S 19 | 21 37 39 | 22°27'51 | 0♌56 | 4°52 | 11°26 | 13°52 | 3°21 | 1°34 | 15°45 | 8°40 | 13°26 | 7°48 | 8°28 | 25°50 | n.a. | S 19 |
| M20 | 21 41 36 | 23°26'31 | 16° 4 | 6°10 | 12°35 | 14°34 | 3°27 | 1°40 | 15°43 | 8°40 | 13°26 | 7°47 | 8°24 | 25°57 | n.a. | M20 |
| T 21 | 21 45 32 | 24°25'14 | 1♍17 | 7°33 | 13°44 | 15°15 | 3°34 | 1°46 | 15°41 | 8°39 | 13°26 | 7°D46 | 8°21 | 26° 3 | n.a. | T 21 |
| W22 | 21 49 29 | 25°23'59 | 16°25 | 9° 1 | 14°53 | 15°57 | 3°40 | 1°51 | 15°38 | 8°39 | 13°26 | 7°46 | 8°18 | 26°10 | n.a. | W22 |
| T 23 | 21 53 26 | 26°22'46 | 1♎19 | 10°33 | 16° 3 | 16°38 | 3°47 | 1°57 | 15°36 | 8°39 | 13°25 | 7°47 | 8°15 | 26°16 | n.a. | T 23 |
| F 24 | 21 57 22 | 27°21'34 | 15°52 | 12° 9 | 17°12 | 17°20 | 3°53 | 2° 3 | 15°34 | 8°39 | 13°25 | 7°48 | 8°12 | 26°23 | n.a. | F 24 |
| S 25 | 22 1 19 | 28°20'25 | 0♏ 1 | 13°48 | 18°22 | 18° 2 | 3°59 | 2° 8 | 15°32 | 8°38 | 13°25 | 7°49 | 8° 8 | 26°30 | n.a. | S 25 |
| S 26 | 22 5 15 | 29°19'17 | 13°43 | 15°30 | 19°32 | 18°44 | 4° 5 | 2°13 | 15°29 | 8°38 | 13°25 | 7°49 | 8° 5 | 26°36 | n.a. | S 26 |
| M27 | 22 9 12 | 0♍18'11 | 27° 1 | 17°13 | 20°42 | 19°26 | 4°11 | 2°19 | 15°27 | 8°38 | 13°25 | 7°R50 | 8° 2 | 26°43 | n.a. | M27 |
| T 28 | 22 13 8 | 1°17'08 | 9♐55 | 18°59 | 21°52 | 20° 8 | 4°16 | 2°24 | 15°25 | 8°37 | 13°24 | 7°50 | 7°59 | 26°50 | n.a. | T 28 |
| W29 | 22 17 5 | 2°16'05 | 22°29 | 20°45 | 23° 2 | 20°50 | 4°21 | 2°29 | 15°22 | 8°37 | 13°24 | 7°49 | 7°56 | 26°56 | n.a. | W29 |
| T 30 | 22 21 1 | 3°15'05 | 4♑47 | 22°33 | 24°12 | 21°32 | 4°27 | 2°34 | 15°20 | 8°36 | 13°24 | 7°49 | 7°53 | 27° 3 | n.a. | T 30 |
| F 31 | 22 24 58 | 4♍14'07 | 16♑53 | 24♌21 | 25♋23 | 22♎14 | 4♊32 | 2♋39 | 15♓18 | 8♉36 | 13♉24 | 7♍48 | 7♍49 | 27♒10 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 19n14 | 17s28 | 5n11 | 15n36 | 4s 5 | 21n20 | 2s 5 | 0s46 | 0s 5 | 19n57 | 0s38 | 23n19 | 0s23 | 6s11 | 0s47 | 12n46 | 1s52 | 5n16 | 11s16 | 8n33 | 8n 8 | 12s25 | | n.a. |
| T 2 | 19 0 | 18 39 | 4 58 | 16 0 | 3 53 | 21 28 | 2 1 | 1 3 | 0 5 | 19 59 | 0 38 | 23 19 | 0 23 | 6 11 | 0 47 | 12 46 | 1 52 | 5 16 | 11 17 | 8 35 | 8 9 | 12 24 | | n.a. |
| F 3 | 18 45 | 18 57 | 4 32 | 16 24 | 3 40 | 21 35 | 1 57 | 1 20 | 0 6 | 20 0 | 0 38 | 23 19 | 0 23 | 6 12 | 0 47 | 12 46 | 1 52 | 5 16 | 11 17 | 8 37 | 8 10 | 12 22 | | n.a. |
| S 4 | 18 30 | 18 22 | 3 53 | 16 48 | 3 26 | 21 42 | 1 54 | 1 36 | 0 7 | 20 2 | 0 38 | 23 19 | 0 23 | 6 13 | 0 47 | 12 46 | 1 52 | 5 16 | 11 17 | 8 39 | 8 11 | 12 21 | | n.a. |
| S 5 | 18 15 | 16 58 | 3 5 | 17 12 | 3 10 | 21 48 | 1 50 | 1 53 | 0 8 | 20 4 | 0 38 | 23 19 | 0 23 | 6 13 | 0 47 | 12 46 | 1 52 | 5 16 | 11 17 | 8 41 | 8 12 | 12 19 | | n.a. |
| M 6 | 17 59 | 14 51 | 2 9 | 17 36 | 2 53 | 21 54 | 1 46 | 2 10 | 0 9 | 20 6 | 0 38 | 23 19 | 0 23 | 6 14 | 0 47 | 12 46 | 1 52 | 5 15 | 11 18 | 8 42 | 8 14 | 12 18 | | n.a. |
| T 7 | 17 43 | 12 6 | 1 7 | 17 59 | 2 35 | 21 59 | 1 42 | 2 27 | 0 10 | 20 8 | 0 38 | 23 19 | 0 23 | 6 15 | 0 48 | 12 46 | 1 52 | 5 15 | 11 18 | 8 43 | 8 15 | 12 17 | | n.a. |
| W 8 | 17 27 | 8 53 | 0 3 | 18 21 | 2 17 | 22 4 | 1 38 | 2 44 | 0 11 | 20 9 | 0 38 | 23 20 | 0 23 | 6 16 | 0 48 | 12 46 | 1 52 | 5 15 | 11 18 | 8 43 | 8 16 | 12 15 | | n.a. |
| T 9 | 17 11 | 5 18 | 1s 2 | 18 41 | 1 58 | 22 8 | 1 34 | 3 1 | 0 11 | 20 11 | 0 38 | 23 20 | 0 23 | 6 16 | 0 48 | 12 46 | 1 52 | 5 15 | 11 18 | 8 43 | 8 17 | 12 14 | | n.a. |
| F 10 | 16 54 | 1 30 | 2 4 | 19 0 | 1 40 | 22 12 | 1 30 | 3 17 | 0 12 | 20 13 | 0 38 | 23 20 | 0 22 | 6 17 | 0 48 | 12 46 | 1 52 | 5 15 | 11 18 | 8 43 | 8 18 | 12 12 | | n.a. |
| S 11 | 16 37 | 2n23 | 3 2 | 19 17 | 1 21 | 22 15 | 1 26 | 3 34 | 0 13 | 20 14 | 0 38 | 23 20 | 0 22 | 6 18 | 0 48 | 12 46 | 1 52 | 5 15 | 11 19 | 8 42 | 8 20 | 12 11 | | n.a. |
| S 12 | 16 19 | 6 15 | 3 53 | 19 32 | 1 3 | 22 18 | 1 22 | 3 51 | 0 14 | 20 16 | 0 38 | 23 20 | 0 22 | 6 19 | 0 48 | 12 46 | 1 52 | 5 15 | 11 19 | 8 41 | 8 21 | 12 9 | | n.a. |
| M13 | 16 2 | 9 55 | 4 33 | 19 44 | 0 45 | 22 20 | 1 18 | 4 8 | 0 15 | 20 17 | 0 38 | 23 20 | 0 22 | 6 20 | 0 48 | 12 46 | 1 53 | 5 14 | 11 19 | 8 41 | 8 22 | 12 8 | | n.a. |
| T 14 | 15 44 | 13 13 | 5 2 | 19 54 | 0 28 | 22 21 | 1 14 | 4 25 | 0 16 | 20 19 | 0 38 | 23 20 | 0 22 | 6 20 | 0 48 | 12 46 | 1 53 | 5 14 | 11 19 | 8 41 | 8 23 | 12 7 | | n.a. |
| W15 | 15 26 | 15 57 | 5 15 | 20 1 | 0 12 | 22 22 | 1 10 | 4 42 | 0 16 | 20 20 | 0 38 | 23 20 | 0 22 | 6 21 | 0 48 | 12 46 | 1 53 | 5 14 | 11 19 | 8 41 | 8 24 | 12 5 | | n.a. |
| T 16 | 15 7 | 17 55 | 5 12 | 20 5 | 0n 4 | 22 22 | 1 6 | 4 59 | 0 17 | 20 22 | 0 38 | 23 20 | 0 22 | 6 22 | 0 48 | 12 46 | 1 53 | 5 14 | 11 20 | 8 42 | 8 26 | 12 4 | | n.a. |
| F 17 | 14 49 | 18 52 | 4 50 | 20 6 | 0 18 | 22 21 | 1 2 | 5 16 | 0 18 | 20 23 | 0 38 | 23 20 | 0 22 | 6 23 | 0 48 | 12 46 | 1 53 | 5 14 | 11 20 | 8 42 | 8 27 | 12 2 | | n.a. |
| S 18 | 14 30 | 18 36 | 4 9 | 20 4 | 0 32 | 22 20 | 0 58 | 5 33 | 0 19 | 20 25 | 0 38 | 23 20 | 0 22 | 6 24 | 0 48 | 12 46 | 1 53 | 5 13 | 11 20 | 8 43 | 8 28 | 12 1 | | n.a. |
| S 19 | 14 11 | 17 5 | 3 10 | 19 59 | 0 45 | 22 19 | 0 54 | 5 50 | 0 19 | 20 26 | 0 38 | 23 20 | 0 22 | 6 25 | 0 48 | 12 46 | 1 53 | 5 13 | 11 20 | 8 44 | 8 29 | 11 59 | | n.a. |
| M20 | 13 51 | 14 20 | 1 58 | 19 50 | 0 56 | 22 16 | 0 50 | 6 7 | 0 20 | 20 27 | 0 38 | 23 20 | 0 22 | 6 25 | 0 48 | 12 46 | 1 53 | 5 13 | 11 20 | 8 45 | 8 30 | 11 58 | | n.a. |
| T 21 | 13 32 | 10 35 | 0 36 | 19 39 | 1 6 | 22 13 | 0 46 | 6 24 | 0 21 | 20 29 | 0 38 | 23 20 | 0 22 | 6 26 | 0 48 | 12 46 | 1 53 | 5 13 | 11 21 | 8 45 | 8 32 | 11 56 | | n.a. |
| W22 | 13 12 | 6 9 | 0n48 | 19 25 | 1 15 | 22 10 | 0 42 | 6 40 | 0 22 | 20 30 | 0 38 | 23 20 | 0 22 | 6 27 | 0 48 | 12 46 | 1 53 | 5 13 | 11 21 | 8 45 | 8 33 | 11 55 | | n.a. |
| T 23 | 12 52 | 1 25 | 2 7 | 19 7 | 1 23 | 22 6 | 0 38 | 6 57 | 0 23 | 20 31 | 0 38 | 23 20 | 0 22 | 6 28 | 0 48 | 12 45 | 1 53 | 5 12 | 11 21 | 8 45 | 8 34 | 11 53 | | n.a. |
| F 24 | 12 31 | 3s18 | 3 16 | 18 47 | 1 30 | 22 1 | 0 34 | 7 14 | 0 23 | 20 32 | 0 38 | 23 20 | 0 22 | 6 29 | 0 48 | 12 45 | 1 53 | 5 12 | 11 21 | 8 44 | 8 35 | 11 52 | | n.a. |
| S 25 | 12 11 | 7 41 | 4 11 | 18 24 | 1 36 | 21 56 | 0 30 | 7 31 | 0 24 | 20 33 | 0 38 | 23 20 | 0 22 | 6 30 | 0 48 | 12 45 | 1 53 | 5 12 | 11 21 | 8 44 | 8 36 | 11 51 | | n.a. |
| S 26 | 11 50 | 11 31 | 4 50 | 17 59 | 1 41 | 21 50 | 0 26 | 7 48 | 0 25 | 20 34 | 0 38 | 23 20 | 0 21 | 6 31 | 0 48 | 12 45 | 1 53 | 5 12 | 11 22 | 8 44 | 8 38 | 11 49 | | n.a. |
| M27 | 11 29 | 14 38 | 5 12 | 17 31 | 1 45 | 21 43 | 0 23 | 8 5 | 0 26 | 20 35 | 0 38 | 23 20 | 0 21 | 6 32 | 0 48 | 12 45 | 1 53 | 5 11 | 11 22 | 8 44 | 8 39 | 11 48 | | n.a. |
| T 28 | 11 8 | 16 57 | 5 18 | 17 1 | 1 48 | 21 36 | 0 19 | 8 21 | 0 26 | 20 36 | 0 38 | 23 20 | 0 21 | 6 33 | 0 48 | 12 45 | 1 53 | 5 11 | 11 22 | 8 44 | 8 40 | 11 46 | | n.a. |
| W29 | 10 47 | 18 22 | 5 8 | 16 28 | 1 50 | 21 28 | 0 15 | 8 38 | 0 27 | 20 37 | 0 38 | 23 20 | 0 21 | 6 34 | 0 48 | 12 44 | 1 53 | 5 11 | 11 22 | 8 44 | 8 41 | 11 45 | | n.a. |
| T 30 | 10 25 | 18 54 | 4 43 | 15 54 | 1 52 | 21 19 | 0 11 | 8 55 | 0 28 | 20 38 | 0 38 | 23 19 | 0 21 | 6 35 | 0 48 | 12 44 | 1 54 | 5 11 | 11 22 | 8 44 | 8 42 | 11 43 | | n.a. |
| F 31 | 10n 4 | 18s32 | 4n 7 | 15n19 | 1n52 | 21n10 | 0s 8 | 9s11 | 0s28 | 20n39 | 0s38 | 23n19 | 0s21 | 6s35 | 0s48 | 12n44 | 1s54 | 5n10 | 11s23 | 8n44 | 8n44 | 11s42 | | n.a. |

Julian Day Number = 1689493.5, Delta T = 03h11m14s
Ecliptic obliquity = 23°42'11, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°16'18, Lahiri = - 5°09'18 Julian Calendar 1 Aug. 88 BCE == Greg. Calendar 30 July 088 BCE

The year -87 astronomical counting style corresponds to year 088 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 88 BCE
# geocentric

## SEPTEMBER 88 BCE (-87) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 22 28 54 | 5♍13'10 | 28♉50 | 26♌ 9 | 26♋34 | 22♎57 | 4♊37 | 2♋44 | 15°R15 | 8°R35 | 13°R23 | 7°R48 | 7♍46 | 27♒16 | n.a. | S 1 |
| S 2 | 22 32 51 | 6°12'16 | 10♒41 | 27°58 | 27°44 | 23°39 | 4°41 | 2°49 | 15♓13 | 8♉35 | 13♉23 | 7♍48 | 7°43 | 27°23 | n.a. | S 2 |
| M 3 | 22 36 48 | 7°11'24 | 22°30 | 29°47 | 28°55 | 24°22 | 4°46 | 2°54 | 15°10 | 8°34 | 13°23 | 7°47 | 7°40 | 27°30 | n.a. | M 3 |
| T 4 | 22 40 44 | 8°10'33 | 4♓18 | 1♍35 | 0♌ 6 | 25° 4 | 4°50 | 2°59 | 15° 8 | 8°34 | 13°22 | 7°47 | 7°37 | 27°36 | n.a. | T 4 |
| W 5 | 22 44 41 | 9° 9'45 | 16° 8 | 3°23 | 1°17 | 25°47 | 4°54 | 3° 3 | 15° 6 | 8°33 | 13°22 | 7°47 | 7°34 | 27°43 | n.a. | W 5 |
| T 6 | 22 48 37 | 10° 8'59 | 28° 2 | 5°11 | 2°28 | 26°30 | 4°58 | 3° 8 | 15° 3 | 8°32 | 13°21 | 7°47 | 7°30 | 27°50 | n.a. | T 6 |
| F 7 | 22 52 34 | 11° 8'15 | 10♈ 2 | 6°58 | 3°40 | 27°12 | 5° 2 | 3°12 | 15° 1 | 8°31 | 13°21 | 7°47 | 7°27 | 27°56 | n.a. | F 7 |
| S 8 | 22 56 30 | 12° 7'33 | 22°10 | 8°44 | 4°51 | 27°55 | 5° 6 | 3°17 | 14°58 | 8°31 | 13°20 | 7°47 | 7°24 | 28° 3 | n.a. | S 8 |
| S 9 | 23 0 27 | 13° 6'54 | 4♉30 | 10°30 | 6° 3 | 28°38 | 5° 9 | 3°21 | 14°56 | 8°30 | 13°20 | 7°46 | 7°21 | 28° 9 | n.a. | S 9 |
| M10 | 23 4 23 | 14° 6'17 | 17° 4 | 12°16 | 7°14 | 29°21 | 5°12 | 3°25 | 14°53 | 8°29 | 13°20 | 7°45 | 7°18 | 28°16 | n.a. | M10 |
| T 11 | 23 8 20 | 15° 5'42 | 29°54 | 14° 0 | 8°26 | 0♏ 5 | 5°16 | 3°29 | 14°51 | 8°28 | 13°19 | 7°45 | 7°14 | 28°23 | n.a. | T 11 |
| W12 | 23 12 17 | 16° 5'10 | 13♊ 3 | 15°44 | 9°38 | 0°48 | 5°18 | 3°33 | 14°49 | 8°27 | 13°18 | 7°D44 | 7°11 | 28°29 | n.a. | W12 |
| T 13 | 23 16 13 | 17° 4'41 | 26°34 | 17°27 | 10°50 | 1°31 | 5°21 | 3°37 | 14°46 | 8°26 | 13°18 | 7°44 | 7° 8 | 28°36 | n.a. | T 13 |
| F 14 | 23 20 10 | 18° 4'13 | 10♋29 | 19°10 | 12° 2 | 2°14 | 5°24 | 3°41 | 14°44 | 8°26 | 13°17 | 7°45 | 7° 5 | 28°43 | n.a. | F 14 |
| S 15 | 23 24 6 | 19° 3'49 | 24°46 | 20°52 | 13°14 | 2°58 | 5°26 | 3°45 | 14°41 | 8°25 | 13°17 | 7°46 | 7° 2 | 28°49 | n.a. | S 15 |
| S 16 | 23 28 3 | 20° 3'26 | 9♌25 | 22°33 | 14°27 | 3°41 | 5°28 | 3°48 | 14°39 | 8°24 | 13°16 | 7°47 | 6°59 | 28°56 | n.a. | S 16 |
| M17 | 23 31 59 | 21° 3'06 | 24°20 | 24°13 | 15°39 | 4°25 | 5°30 | 3°52 | 14°36 | 8°23 | 13°15 | 7°48 | 6°55 | 29° 3 | n.a. | M17 |
| T 18 | 23 35 56 | 22° 2'48 | 9♍24 | 25°53 | 16°51 | 5° 9 | 5°32 | 3°55 | 14°34 | 8°22 | 13°15 | 7°R48 | 6°52 | 29° 9 | n.a. | T 18 |
| W19 | 23 39 52 | 23° 2'32 | 24°30 | 27°32 | 18° 4 | 5°53 | 5°33 | 3°59 | 14°32 | 8°20 | 13°14 | 7°47 | 6°49 | 29°16 | n.a. | W19 |
| T 20 | 23 43 49 | 24° 2'19 | 9♎28 | 29°11 | 19°17 | 6°36 | 5°35 | 4° 2 | 14°29 | 8°19 | 13°13 | 7°46 | 6°46 | 29°23 | n.a. | T 20 |
| F 21 | 23 47 45 | 25° 2'07 | 24° 9 | 0♎49 | 20°29 | 7°20 | 5°36 | 4° 5 | 14°27 | 8°18 | 13°13 | 7°44 | 6°43 | 29°29 | n.a. | F 21 |
| S 22 | 23 51 42 | 26° 1'57 | 8♏28 | 2°26 | 21°42 | 8° 4 | 5°37 | 4° 8 | 14°24 | 8°17 | 13°12 | 7°42 | 6°40 | 29°36 | n.a. | S 22 |
| S 23 | 23 55 39 | 27° 1'49 | 22°20 | 4° 3 | 22°55 | 8°48 | 5°37 | 4°11 | 14°22 | 8°16 | 13°11 | 7°39 | 6°36 | 29°42 | n.a. | S 23 |
| M24 | 23 59 35 | 28° 1'43 | 5♐45 | 5°39 | 24° 8 | 9°32 | 5°38 | 4°14 | 14°20 | 8°15 | 13°11 | 7°37 | 6°33 | 29°49 | n.a. | M24 |
| T 25 | 0 3 32 | 29° 1'39 | 18°44 | 7°14 | 25°21 | 10°17 | 5°38 | 4°17 | 14°17 | 8°13 | 13°10 | 7°36 | 6°30 | 29°56 | n.a. | T 25 |
| W26 | 0 7 28 | 0♎ 1'37 | 1♑19 | 8°49 | 26°34 | 11° 1 | 5°R39 | 4°19 | 14°15 | 8°12 | 13° 9 | 7°D35 | 6°27 | 0♓ 2 | n.a. | W26 |
| T 27 | 0 11 25 | 1° 1'36 | 13°36 | 10°23 | 27°47 | 11°45 | 5°38 | 4°22 | 14°13 | 8°11 | 13° 8 | 7°36 | 6°24 | 0° 9 | n.a. | T 27 |
| F 28 | 0 15 21 | 2° 1'37 | 25°38 | 11°57 | 29° 1 | 12°30 | 5°38 | 4°24 | 14°11 | 8°10 | 13° 7 | 7°37 | 6°20 | 0°16 | n.a. | F 28 |
| S 29 | 0 19 18 | 3° 1'40 | 7♒31 | 13°30 | 0♍14 | 13°14 | 5°38 | 4°27 | 14° 8 | 8° 8 | 13° 7 | 7°39 | 6°17 | 0°22 | n.a. | S 29 |
| S 30 | 0 23 14 | 4♎ 1'44 | 19♒19 | 15♎ 3 | 1♍27 | 13♏59 | 5♊37 | 4♋29 | 14♓ 6 | 8♉ 7 | 13♉ 6 | 7♍41 | 6♍14 | 0♓29 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 9n42 | 17s21 | 3n20 | 14n41 | 1n52 | 21n 1 | 0s 4 | 9s28 | 0s29 | 20n40 | 0s38 | 23n19 | 0s21 | 6s36 | 0s48 | 12n44 | 1s54 | 5n10 | 11s23 | 8n44 | 8n45 | 11s40 | | n.a. |
| S 2 | 9 20 | 15 25 | 2 25 | 14 3 | 1 51 | 20 50 | 0 0 | 9 45 | 0 30 | 20 41 | 0 38 | 23 19 | 0 21 | 6 37 | 0 48 | 12 43 | 1 54 | 5 10 | 11 23 | 8 44 | 8 46 | 11 39 | | n.a. |
| M 3 | 8 58 | 12 51 | 1 24 | 13 23 | 1 50 | 20 39 | 0n 3 | 10 1 | 0 31 | 20 42 | 0 38 | 23 19 | 0 21 | 6 38 | 0 48 | 12 43 | 1 54 | 5 9 | 11 23 | 8 44 | 8 47 | 11 37 | | n.a. |
| T 4 | 8 36 | 9 44 | 0 19 | 12 42 | 1 48 | 20 28 | 0 7 | 10 17 | 0 31 | 20 43 | 0 38 | 23 19 | 0 21 | 6 39 | 0 48 | 12 43 | 1 54 | 5 9 | 11 23 | 8 44 | 8 48 | 11 36 | | n.a. |
| W 5 | 8 13 | 6 14 | 0s46 | 12 1 | 1 45 | 20 16 | 0 10 | 10 34 | 0 32 | 20 44 | 0 38 | 23 19 | 0 21 | 6 40 | 0 48 | 12 43 | 1 54 | 5 9 | 11 23 | 8 44 | 8 50 | 11 34 | | n.a. |
| T 6 | 7 51 | 2 29 | 1 50 | 11 18 | 1 42 | 20 3 | 0 14 | 10 50 | 0 33 | 20 44 | 0 38 | 23 19 | 0 21 | 6 41 | 0 48 | 12 42 | 1 54 | 5 9 | 11 24 | 8 44 | 8 51 | 11 33 | | n.a. |
| F 7 | 7 28 | 1n25 | 2 50 | 10 35 | 1 39 | 19 49 | 0 17 | 11 6 | 0 33 | 20 45 | 0 38 | 23 19 | 0 21 | 6 42 | 0 48 | 12 42 | 1 54 | 5 8 | 11 24 | 8 45 | 8 52 | 11 31 | | n.a. |
| S 8 | 7 5 | 5 17 | 3 43 | 9 51 | 1 35 | 19 35 | 0 20 | 11 23 | 0 34 | 20 46 | 0 38 | 23 19 | 0 21 | 6 43 | 0 48 | 12 42 | 1 54 | 5 8 | 11 24 | 8 45 | 8 53 | 11 30 | | n.a. |
| S 9 | 6 42 | 8 59 | 4 26 | 9 7 | 1 31 | 19 21 | 0 24 | 11 39 | 0 35 | 20 46 | 0 38 | 23 19 | 0 21 | 6 44 | 0 48 | 12 42 | 1 54 | 5 8 | 11 24 | 8 45 | 8 54 | 11 28 | | n.a. |
| M10 | 6 19 | 12 22 | 4 57 | 8 22 | 1 27 | 19 6 | 0 27 | 11 55 | 0 35 | 20 47 | 0 38 | 23 19 | 0 21 | 6 45 | 0 48 | 12 41 | 1 54 | 5 7 | 11 24 | 8 45 | 8 56 | 11 27 | | n.a. |
| T 11 | 5 56 | 15 13 | 5 15 | 7 37 | 1 22 | 18 50 | 0 30 | 12 11 | 0 36 | 20 47 | 0 38 | 23 19 | 0 20 | 6 46 | 0 48 | 12 41 | 1 54 | 5 7 | 11 25 | 8 45 | 8 57 | 11 25 | | n.a. |
| W12 | 5 33 | 17 23 | 5 16 | 6 52 | 1 17 | 18 34 | 0 33 | 12 27 | 0 37 | 20 48 | 0 38 | 23 19 | 0 20 | 6 47 | 0 48 | 12 41 | 1 54 | 5 7 | 11 25 | 8 46 | 8 58 | 11 24 | | n.a. |
| T 13 | 5 9 | 18 39 | 5 1 | 6 6 | 1 11 | 18 17 | 0 36 | 12 43 | 0 37 | 20 48 | 0 38 | 23 19 | 0 20 | 6 48 | 0 48 | 12 40 | 1 54 | 5 6 | 11 25 | 8 46 | 8 59 | 11 22 | | n.a. |
| F 14 | 4 46 | 18 50 | 4 27 | 5 20 | 1 6 | 18 0 | 0 39 | 12 59 | 0 38 | 20 49 | 0 38 | 23 19 | 0 20 | 6 49 | 0 48 | 12 40 | 1 54 | 5 6 | 11 25 | 8 45 | 9 0 | 11 21 | | n.a. |
| S 15 | 4 22 | 17 51 | 3 37 | 4 35 | 1 0 | 17 42 | 0 42 | 13 14 | 0 39 | 20 49 | 0 38 | 23 19 | 0 20 | 6 50 | 0 48 | 12 40 | 1 54 | 5 6 | 11 25 | 8 45 | 9 2 | 11 19 | | n.a. |
| S 16 | 3 59 | 15 40 | 2 31 | 3 49 | 0 54 | 17 24 | 0 45 | 13 30 | 0 39 | 20 50 | 0 38 | 23 19 | 0 20 | 6 51 | 0 48 | 12 39 | 1 54 | 5 5 | 11 25 | 8 45 | 9 3 | 11 18 | | n.a. |
| M17 | 3 35 | 12 24 | 1 14 | 3 3 | 0 48 | 17 5 | 0 48 | 13 45 | 0 40 | 20 50 | 0 38 | 23 19 | 0 20 | 6 52 | 0 48 | 12 39 | 1 54 | 5 5 | 11 26 | 8 44 | 9 4 | 11 16 | | n.a. |
| T 18 | 3 11 | 8 16 | 0n 9 | 2 18 | 0 42 | 16 46 | 0 51 | 14 1 | 0 40 | 20 50 | 0 38 | 23 19 | 0 20 | 6 52 | 0 48 | 12 38 | 1 55 | 5 5 | 11 26 | 8 44 | 9 5 | 11 15 | | n.a. |
| W19 | 2 47 | 3 36 | 1 31 | 1 32 | 0 36 | 16 26 | 0 53 | 14 16 | 0 41 | 20 51 | 0 38 | 23 19 | 0 20 | 6 53 | 0 48 | 12 38 | 1 55 | 5 4 | 11 26 | 8 44 | 9 6 | 11 13 | | n.a. |
| T 20 | 2 24 | 1s14 | 2 47 | 0 47 | 0 29 | 16 5 | 0 56 | 14 31 | 0 42 | 20 51 | 0 38 | 23 19 | 0 20 | 6 54 | 0 48 | 12 38 | 1 55 | 5 4 | 11 26 | 8 45 | 9 8 | 11 12 | | n.a. |
| F 21 | 2 0 | 5 55 | 3 49 | 0 1 | 0 23 | 15 45 | 0 59 | 14 47 | 0 42 | 20 51 | 0 38 | 23 19 | 0 20 | 6 55 | 0 48 | 12 37 | 1 55 | 5 4 | 11 26 | 8 46 | 9 9 | 11 10 | | n.a. |
| S 22 | 1 36 | 10 7 | 4 36 | 0s44 | 0 16 | 15 23 | 1 1 | 15 2 | 0 43 | 20 51 | 0 38 | 23 18 | 0 20 | 6 56 | 0 48 | 12 37 | 1 55 | 5 3 | 11 26 | 8 47 | 9 10 | 11 9 | | n.a. |
| S 23 | 1 12 | 13 39 | 5 5 | 1 29 | 0 10 | 15 2 | 1 4 | 15 17 | 0 43 | 20 51 | 0 38 | 23 18 | 0 20 | 6 57 | 0 48 | 12 36 | 1 55 | 5 3 | 11 26 | 8 48 | 9 11 | 11 7 | | n.a. |
| M24 | 0 48 | 16 19 | 5 16 | 2 13 | 0 3 | 14 39 | 1 6 | 15 31 | 0 44 | 20 51 | 0 38 | 23 18 | 0 20 | 6 58 | 0 48 | 12 36 | 1 55 | 5 3 | 11 27 | 8 48 | 9 12 | 11 6 | | n.a. |
| T 25 | 0 23 | 18 4 | 5 10 | 2 57 | 0s 4 | 14 17 | 1 8 | 15 46 | 0 45 | 20 52 | 0 38 | 23 18 | 0 20 | 6 59 | 0 48 | 12 36 | 1 55 | 5 2 | 11 27 | 8 49 | 9 13 | 11 4 | | n.a. |
| W26 | 0s 1 | 18 52 | 4 49 | 3 41 | 0 10 | 13 54 | 1 10 | 16 1 | 0 45 | 20 52 | 0 38 | 23 18 | 0 20 | 7 0 | 0 48 | 12 35 | 1 55 | 5 2 | 11 27 | 8 49 | 9 15 | 11 3 | | n.a. |
| T 27 | 0 25 | 18 45 | 4 16 | 4 25 | 0 17 | 13 30 | 1 13 | 16 15 | 0 46 | 20 52 | 0 38 | 23 18 | 0 19 | 7 1 | 0 48 | 12 35 | 1 55 | 5 2 | 11 27 | 8 49 | 9 16 | 11 1 | | n.a. |
| F 28 | 0 49 | 17 47 | 3 32 | 5 8 | 0 24 | 13 7 | 1 15 | 16 29 | 0 46 | 20 52 | 0 38 | 23 18 | 0 19 | 7 2 | 0 48 | 12 34 | 1 55 | 5 1 | 11 27 | 8 48 | 9 17 | 11 0 | | n.a. |
| S 29 | 1 13 | 16 2 | 2 39 | 5 51 | 0 31 | 12 42 | 1 17 | 16 44 | 0 47 | 20 51 | 0 38 | 23 18 | 0 19 | 7 2 | 0 48 | 12 34 | 1 55 | 5 1 | 11 27 | 8 48 | 9 18 | 10 58 | | n.a. |
| S 30 | 1s37 | 13s37 | 1n40 | 6s34 | 0s37 | 12n18 | 1n19 | 16s58 | 0s47 | 20n51 | 0s38 | 23n18 | 0s19 | 7s 3 | 0s48 | 12n33 | 1s55 | 5n 1 | 11s27 | 8n47 | 9n19 | 10s56 | | n.a. |

Julian Day Number = 1689524.5, Delta T = 03h11m13s
Ecliptic obliquity = 23°42'12, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°16'14, Lahiri = - 5°09'14 Julian Calendar 1 Sept. 88 BCE == Greg. Calendar 30 Aug. 088 BCE

The year -87 astronomical counting style corresponds to year 088 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 88 BCE
# geocentric

## OCTOBER 88 BCE (-87) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 0 27 11 | 5♎ 1'50 | 1♓ 7 | 16♎36 | 2♍41 | 14♏43 | 5°R36 | 4♋31 | 14°R 4 | 8°R 6 | 13°R 5 | 7♍42 | 6♍11 | 0♓36 | n.a. | M 1 |
| T 2 | 0 31 8 | 6° 1'58 | 12°57 | 18° 7 | 3°54 | 15°28 | 5♊35 | 4°33 | 14♓ 2 | 8♉ 4 | 13♉ 4 | 7°R42 | 6° 8 | 0°42 | n.a. | T 2 |
| W 3 | 0 35 4 | 7° 2'08 | 24°52 | 19°39 | 5° 8 | 16°13 | 5°34 | 4°35 | 13°59 | 8° 3 | 13° 3 | 7°41 | 6° 5 | 0°49 | n.a. | W 3 |
| T 4 | 0 39 1 | 8° 2'20 | 6♈55 | 21°10 | 6°22 | 16°57 | 5°32 | 4°37 | 13°57 | 8° 2 | 13° 2 | 7°38 | 6° 1 | 0°56 | n.a. | T 4 |
| F 5 | 0 42 57 | 9° 2'33 | 19° 8 | 22°40 | 7°35 | 17°42 | 5°31 | 4°38 | 13°55 | 8° 0 | 13° 1 | 7°33 | 5°58 | 1° 2 | n.a. | F 5 |
| S 6 | 0 46 54 | 10° 2'48 | 1♉32 | 24°10 | 8°49 | 18°27 | 5°29 | 4°40 | 13°53 | 7°59 | 13° 0 | 7°28 | 5°55 | 1° 9 | n.a. | S 6 |
| S 7 | 0 50 50 | 11° 3'06 | 14° 7 | 25°40 | 10° 3 | 19°12 | 5°27 | 4°41 | 13°51 | 7°57 | 12°59 | 7°22 | 5°52 | 1°16 | n.a. | S 7 |
| M 8 | 0 54 47 | 12° 3'25 | 26°55 | 27° 9 | 11°17 | 19°57 | 5°25 | 4°43 | 13°49 | 7°56 | 12°58 | 7°16 | 5°49 | 1°22 | n.a. | M 8 |
| T 9 | 0 58 43 | 13° 3'47 | 9♊56 | 28°37 | 12°31 | 20°42 | 5°22 | 4°44 | 13°47 | 7°54 | 12°57 | 7°11 | 5°45 | 1°29 | n.a. | T 9 |
| W10 | 1 2 40 | 14° 4'10 | 23°10 | 0♏ 6 | 13°45 | 21°27 | 5°20 | 4°45 | 13°45 | 7°53 | 12°56 | 7° 7 | 5°42 | 1°35 | n.a. | W10 |
| T 11 | 1 6 36 | 15° 4'36 | 6♋40 | 1°33 | 14°59 | 22°12 | 5°17 | 4°46 | 13°43 | 7°51 | 12°55 | 7° 6 | 5°39 | 1°42 | n.a. | T 11 |
| F 12 | 1 10 33 | 16° 5'03 | 20°26 | 3° 0 | 16°13 | 22°58 | 5°14 | 4°47 | 13°41 | 7°50 | 12°54 | 7°D 5 | 5°36 | 1°49 | n.a. | F 12 |
| S 13 | 1 14 30 | 17° 5'33 | 4♌28 | 4°27 | 17°28 | 23°43 | 5°10 | 4°48 | 13°39 | 7°48 | 12°53 | 7° 6 | 5°33 | 1°55 | n.a. | S 13 |
| S 14 | 1 18 26 | 18° 6'05 | 18°46 | 5°52 | 18°42 | 24°28 | 5° 7 | 4°49 | 13°37 | 7°46 | 12°52 | 7° 8 | 5°30 | 2° 2 | n.a. | S 14 |
| M15 | 1 22 23 | 19° 6'38 | 3♍18 | 7°18 | 19°56 | 25°14 | 5° 3 | 4°49 | 13°35 | 7°45 | 12°51 | 7°R 9 | 5°26 | 2° 9 | n.a. | M15 |
| T 16 | 1 26 19 | 20° 7'14 | 18° 1 | 8°42 | 21°11 | 25°59 | 5° 0 | 4°50 | 13°33 | 7°43 | 12°50 | 7° 8 | 5°23 | 2°15 | n.a. | T 16 |
| W17 | 1 30 16 | 21° 7'51 | 2♎47 | 10° 6 | 22°25 | 26°45 | 4°56 | 4°50 | 13°31 | 7°42 | 12°49 | 7° 6 | 5°20 | 2°22 | n.a. | W17 |
| T 18 | 1 34 12 | 22° 8'30 | 17°32 | 11°28 | 23°39 | 27°31 | 4°51 | 4°50 | 13°30 | 7°40 | 12°48 | 7° 1 | 5°17 | 2°29 | n.a. | T 18 |
| F 19 | 1 38 9 | 23° 9'10 | 2♏ 6 | 12°50 | 24°54 | 28°16 | 4°47 | 4°50 | 13°28 | 7°38 | 12°47 | 6°54 | 5°14 | 2°35 | n.a. | F 19 |
| S 20 | 1 42 5 | 24° 9'52 | 16°23 | 14°11 | 26° 9 | 29° 2 | 4°43 | 4°R50 | 13°26 | 7°37 | 12°46 | 6°47 | 5°11 | 2°42 | n.a. | S 20 |
| S 21 | 1 46 2 | 25°10'36 | 0♐18 | 15°30 | 27°23 | 29°48 | 4°38 | 4°50 | 13°25 | 7°35 | 12°45 | 6°38 | 5° 7 | 2°49 | n.a. | S 21 |
| M22 | 1 49 59 | 26°11'21 | 13°47 | 16°48 | 28°38 | 0♐33 | 4°33 | 4°50 | 13°23 | 7°33 | 12°44 | 6°31 | 5° 4 | 2°55 | n.a. | M22 |
| T 23 | 1 53 55 | 27°12'07 | 26°51 | 18° 4 | 29°52 | 1°19 | 4°28 | 4°50 | 13°21 | 7°32 | 12°43 | 6°24 | 5° 1 | 3° 2 | n.a. | T 23 |
| W24 | 1 57 52 | 28°12'54 | 9♑30 | 19°19 | 1♎ 7 | 2° 5 | 4°23 | 4°49 | 13°20 | 7°30 | 12°42 | 6°20 | 4°58 | 3° 8 | n.a. | W24 |
| T 25 | 2 1 48 | 29°13'42 | 21°49 | 20°32 | 2°22 | 2°51 | 4°17 | 4°49 | 13°18 | 7°28 | 12°41 | 6°18 | 4°55 | 3°15 | n.a. | T 25 |
| F 26 | 2 5 45 | 0♏14'32 | 3♒52 | 21°42 | 3°37 | 3°37 | 4°12 | 4°48 | 13°17 | 7°27 | 12°40 | 6°D18 | 4°51 | 3°22 | n.a. | F 26 |
| S 27 | 2 9 41 | 1°15'22 | 15°45 | 22°49 | 4°51 | 4°23 | 4° 6 | 4°47 | 13°16 | 7°25 | 12°38 | 6°19 | 4°48 | 3°28 | n.a. | S 27 |
| S 28 | 2 13 38 | 2°16'14 | 27°32 | 23°54 | 6° 6 | 5° 9 | 4° 0 | 4°46 | 13°14 | 7°23 | 12°37 | 6°20 | 4°45 | 3°35 | n.a. | S 28 |
| M29 | 2 17 34 | 3°17'07 | 9♓20 | 24°55 | 7°21 | 5°56 | 3°54 | 4°45 | 13°13 | 7°22 | 12°36 | 6°R20 | 4°42 | 3°42 | n.a. | M29 |
| T 30 | 2 21 31 | 4°18'00 | 21°12 | 25°52 | 8°36 | 6°42 | 3°48 | 4°44 | 13°12 | 7°20 | 12°35 | 6°19 | 4°39 | 3°48 | n.a. | T 30 |
| W31 | 2 25 28 | 5♏18'55 | 3♈14 | 26♏44 | 9♎51 | 7♐28 | 3♊42 | 4♋43 | 13♓10 | 7♉18 | 12♉34 | 6♍15 | 4♍36 | 3♓55 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| M 1 | 2s 1 | 10s38 | 0n36 | 7s16 | 0s44 | 11n53 | 1n20 | 17s12 | 0s48 | 20n51 | 0s38 | 23n18 | 0s19 | 7s 4 | 0s48 | 12n33 | 1s55 | 5n 0 | 11s28 | 8n47 | 9n21 | 10s55 | | | n.a. |
| T 2 | 2 25 | 7 13 | 0s29 | 7 58 | 0 50 | 11 27 | 1 22 | 17 25 | 0 48 | 20 51 | 0 38 | 23 18 | 0 19 | 7 5 | 0 48 | 12 32 | 1 55 | 5 0 | 11 28 | 8 46 | 9 22 | 10 53 | | | n.a. |
| W 3 | 2 49 | 3 29 | 1 33 | 8 39 | 0 57 | 11 2 | 1 24 | 17 39 | 0 49 | 20 51 | 0 38 | 23 18 | 0 19 | 7 6 | 0 48 | 12 32 | 1 55 | 4 59 | 11 28 | 8 47 | 9 23 | 10 52 | | | n.a. |
| T 4 | 3 13 | 0n26 | 2 33 | 9 19 | 1 3 | 10 36 | 1 25 | 17 53 | 0 50 | 20 51 | 0 38 | 23 18 | 0 19 | 7 7 | 0 48 | 12 31 | 1 55 | 4 59 | 11 28 | 8 48 | 9 24 | 10 50 | | | n.a. |
| F 5 | 3 37 | 4 22 | 3 28 | 9 59 | 1 10 | 10 9 | 1 27 | 18 6 | 0 50 | 20 50 | 0 38 | 23 18 | 0 19 | 7 7 | 0 48 | 12 31 | 1 55 | 4 59 | 11 28 | 8 50 | 9 25 | 10 49 | | | n.a. |
| S 6 | 4 1 | 8 11 | 4 13 | 10 39 | 1 16 | 9 43 | 1 28 | 18 19 | 0 51 | 20 50 | 0 38 | 23 18 | 0 19 | 7 8 | 0 48 | 12 30 | 1 55 | 4 58 | 11 28 | 8 52 | 9 26 | 10 47 | | | n.a. |
| S 7 | 4 25 | 11 42 | 4 47 | 11 18 | 1 22 | 9 16 | 1 30 | 18 32 | 0 51 | 20 50 | 0 38 | 23 18 | 0 19 | 7 9 | 0 48 | 12 30 | 1 55 | 4 58 | 11 28 | 8 54 | 9 28 | 10 46 | | | n.a. |
| M 8 | 4 49 | 14 43 | 5 7 | 11 56 | 1 28 | 8 49 | 1 31 | 18 45 | 0 52 | 20 49 | 0 38 | 23 18 | 0 19 | 7 10 | 0 48 | 12 29 | 1 55 | 4 58 | 11 28 | 8 56 | 9 29 | 10 44 | | | n.a. |
| T 9 | 5 13 | 17 3 | 5 11 | 12 34 | 1 34 | 8 21 | 1 32 | 18 58 | 0 52 | 20 49 | 0 38 | 23 18 | 0 19 | 7 11 | 0 48 | 12 29 | 1 55 | 4 57 | 11 28 | 8 58 | 9 30 | 10 42 | | | n.a. |
| W10 | 5 37 | 18 32 | 4 59 | 13 11 | 1 40 | 7 53 | 1 33 | 19 10 | 0 52 | 20 48 | 0 38 | 23 18 | 0 19 | 7 11 | 0 47 | 12 28 | 1 55 | 4 57 | 11 28 | 8 59 | 9 31 | 10 41 | | | n.a. |
| T 11 | 6 0 | 19 1 | 4 31 | 13 47 | 1 45 | 7 25 | 1 34 | 19 22 | 0 53 | 20 48 | 0 38 | 23 18 | 0 19 | 7 12 | 0 47 | 12 28 | 1 55 | 4 57 | 11 28 | 9 0 | 9 32 | 10 39 | | | n.a. |
| F 12 | 6 24 | 18 23 | 3 47 | 14 22 | 1 50 | 6 57 | 1 35 | 19 35 | 0 53 | 20 47 | 0 38 | 23 18 | 0 19 | 7 13 | 0 47 | 12 27 | 1 55 | 4 56 | 11 29 | 9 0 | 9 34 | 10 38 | | | n.a. |
| S 13 | 6 47 | 16 38 | 2 48 | 14 57 | 1 56 | 6 29 | 1 36 | 19 47 | 0 54 | 20 47 | 0 38 | 23 18 | 0 18 | 7 14 | 0 47 | 12 27 | 1 55 | 4 56 | 11 29 | 9 0 | 9 35 | 10 36 | | | n.a. |
| S 14 | 7 11 | 13 48 | 1 38 | 15 31 | 2 0 | 6 0 | 1 37 | 19 58 | 0 54 | 20 46 | 0 38 | 23 19 | 0 18 | 7 14 | 0 47 | 12 26 | 1 55 | 4 55 | 11 29 | 8 59 | 9 36 | 10 35 | | | n.a. |
| M15 | 7 34 | 10 5 | 0 21 | 16 4 | 2 5 | 5 31 | 1 38 | 20 10 | 0 55 | 20 46 | 0 38 | 23 19 | 0 18 | 7 15 | 0 47 | 12 26 | 1 55 | 4 55 | 11 29 | 8 59 | 9 37 | 10 33 | | | n.a. |
| T 16 | 7 57 | 5 41 | 0n59 | 16 36 | 2 9 | 5 2 | 1 38 | 20 22 | 0 55 | 20 45 | 0 38 | 23 19 | 0 18 | 7 16 | 0 47 | 12 25 | 1 55 | 4 55 | 11 29 | 8 59 | 9 38 | 10 31 | | | n.a. |
| W17 | 8 20 | 0 56 | 2 15 | 17 7 | 2 14 | 4 33 | 1 39 | 20 33 | 0 56 | 20 44 | 0 37 | 23 19 | 0 18 | 7 16 | 0 47 | 12 25 | 1 55 | 4 54 | 11 29 | 9 0 | 9 39 | 10 30 | | | n.a. |
| T 18 | 8 43 | 3s52 | 3 21 | 17 37 | 2 17 | 4 4 | 1 39 | 20 44 | 0 56 | 20 44 | 0 37 | 23 19 | 0 18 | 7 17 | 0 47 | 12 24 | 1 55 | 4 54 | 11 29 | 9 2 | 9 41 | 10 28 | | | n.a. |
| F 19 | 9 6 | 8 22 | 4 13 | 18 6 | 2 21 | 3 34 | 1 40 | 20 55 | 0 57 | 20 43 | 0 37 | 23 19 | 0 18 | 7 18 | 0 47 | 12 24 | 1 55 | 4 54 | 11 29 | 9 4 | 9 42 | 10 27 | | | n.a. |
| S 20 | 9 28 | 12 19 | 4 49 | 18 33 | 2 24 | 3 5 | 1 40 | 21 5 | 0 57 | 20 42 | 0 37 | 23 19 | 0 18 | 7 18 | 0 47 | 12 23 | 1 55 | 4 53 | 11 29 | 9 7 | 9 43 | 10 25 | | | n.a. |
| S 21 | 9 51 | 15 27 | 5 6 | 19 0 | 2 27 | 2 35 | 1 40 | 21 16 | 0 57 | 20 41 | 0 37 | 23 19 | 0 18 | 7 19 | 0 47 | 12 23 | 1 55 | 4 53 | 11 29 | 9 10 | 9 44 | 10 23 | | | n.a. |
| M22 | 10 13 | 17 39 | 5 5 | 19 25 | 2 29 | 2 5 | 1 41 | 21 26 | 0 58 | 20 40 | 0 37 | 23 19 | 0 18 | 7 20 | 0 47 | 12 22 | 1 55 | 4 53 | 11 29 | 9 13 | 9 45 | 10 22 | | | n.a. |
| T 23 | 10 35 | 18 51 | 4 49 | 19 49 | 2 31 | 1 35 | 1 41 | 21 36 | 0 58 | 20 40 | 0 37 | 23 19 | 0 18 | 7 20 | 0 47 | 12 21 | 1 55 | 4 52 | 11 29 | 9 16 | 9 47 | 10 20 | | | n.a. |
| W24 | 10 57 | 19 4 | 4 18 | 20 11 | 2 32 | 1 5 | 1 41 | 21 46 | 0 59 | 20 39 | 0 37 | 23 19 | 0 18 | 7 21 | 0 47 | 12 21 | 1 55 | 4 52 | 11 29 | 9 17 | 9 48 | 10 19 | | | n.a. |
| T 25 | 11 19 | 18 21 | 3 36 | 20 32 | 2 33 | 0 35 | 1 41 | 21 55 | 0 59 | 20 38 | 0 37 | 23 19 | 0 18 | 7 21 | 0 47 | 12 20 | 1 55 | 4 52 | 11 29 | 9 18 | 9 49 | 10 17 | | | n.a. |
| F 26 | 11 41 | 16 49 | 2 46 | 20 51 | 2 33 | 0 5 | 1 40 | 22 5 | 0 59 | 20 37 | 0 37 | 23 19 | 0 18 | 7 22 | 0 47 | 12 20 | 1 55 | 4 51 | 11 29 | 9 18 | 9 50 | 10 15 | | | n.a. |
| S 27 | 12 2 | 14 34 | 1 49 | 21 8 | 2 32 | 0s25 | 1 40 | 22 14 | 1 0 | 20 36 | 0 37 | 23 19 | 0 17 | 7 22 | 0 47 | 12 19 | 1 55 | 4 51 | 11 29 | 9 18 | 9 51 | 10 14 | | | n.a. |
| S 28 | 12 24 | 11 43 | 0 47 | 21 23 | 2 31 | 0 55 | 1 40 | 22 23 | 1 0 | 20 35 | 0 37 | 23 20 | 0 17 | 7 23 | 0 47 | 12 19 | 1 55 | 4 51 | 11 29 | 9 17 | 9 52 | 10 12 | | | n.a. |
| M29 | 12 45 | 8 24 | 0s16 | 21 36 | 2 29 | 1 26 | 1 40 | 22 31 | 1 0 | 20 34 | 0 37 | 23 20 | 0 17 | 7 23 | 0 47 | 12 18 | 1 55 | 4 50 | 11 29 | 9 17 | 9 54 | 10 11 | | | n.a. |
| T 30 | 13 6 | 4 44 | 1 19 | 21 47 | 2 26 | 1 56 | 1 39 | 22 40 | 1 1 | 20 33 | 0 37 | 23 20 | 0 17 | 7 24 | 0 47 | 12 18 | 1 55 | 4 50 | 11 29 | 9 18 | 9 55 | 10 9 | | | n.a. |
| W31 | 13s26 | 0s49 | 2s19 | 21s56 | 2s22 | 2s26 | 1n39 | 22s48 | 1s 1 | 20n31 | 0s37 | 23n20 | 0s17 | 7s24 | 0s47 | 12n17 | 1s55 | 4n50 | 11s29 | 9n19 | 9n56 | 10s 7 | | | n.a. |

Julian Day Number = 1689554.5, Delta T = 03h11m12s
Ecliptic obliquity = 23°42'12, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°16'10, Lahiri = - 5°09'09 Julian Calendar 1 Oct. 88 BCE == Greg. Calendar 29 Sept. 088 BCE

The year -87 astronomical counting style corresponds to year 088 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 88 BCE
# geocentric

## NOVEMBER 88 BCE (-87) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 2 29 24 | 6♏19'50 | 15♈27 | 27♏32 | 11♎ 6 | 8♐14 | 3°R35 | 4°R42 | 13°R 9 | 7°R17 | 12°R33 | 6°R 9 | 4♍32 | 4♓ 2 | n.a. | T 1 |
| F 2 | 2 33 21 | 7°20'47 | 27°54 | 28°13 | 12°21 | 9° 1 | 3♊29 | 4♋40 | 13♓ 8 | 7♉15 | 12♉32 | 6♍ 0 | 4°29 | 4° 8 | n.a. | F 2 |
| S 3 | 2 37 17 | 8°21'45 | 10♉36 | 28°48 | 13°36 | 9°47 | 3°22 | 4°39 | 13° 7 | 7°13 | 12°30 | 5°49 | 4°26 | 4°15 | n.a. | S 3 |
| S 4 | 2 41 14 | 9°22'44 | 23°33 | 29°16 | 14°51 | 10°33 | 3°15 | 4°37 | 13° 6 | 7°12 | 12°29 | 5°38 | 4°23 | 4°22 | n.a. | S 4 |
| M 5 | 2 45 10 | 10°23'44 | 6♊43 | 29°35 | 16° 6 | 11°20 | 3° 8 | 4°35 | 13° 5 | 7°10 | 12°28 | 5°26 | 4°20 | 4°28 | n.a. | M 5 |
| T 6 | 2 49 7 | 11°24'45 | 20° 5 | 29°45 | 17°21 | 12° 6 | 3° 1 | 4°33 | 13° 4 | 7° 8 | 12°27 | 5°16 | 4°16 | 4°35 | n.a. | T 6 |
| W 7 | 2 53 3 | 12°25'48 | 3♋37 | 29°R46 | 18°36 | 12°53 | 2°54 | 4°31 | 13° 3 | 7° 6 | 12°26 | 5° 8 | 4°13 | 4°42 | n.a. | W 7 |
| T 8 | 2 57 0 | 13°26'51 | 17°19 | 29°36 | 19°51 | 13°39 | 2°47 | 4°29 | 13° 2 | 7° 5 | 12°25 | 5° 2 | 4°10 | 4°48 | n.a. | T 8 |
| F 9 | 3 0 57 | 14°27'56 | 1♌ 8 | 29°14 | 21° 6 | 14°26 | 2°40 | 4°27 | 13° 1 | 7° 3 | 12°24 | 4°59 | 4° 7 | 4°55 | n.a. | F 9 |
| S 10 | 3 4 53 | 15°29'02 | 15° 6 | 28°42 | 22°21 | 15°13 | 2°32 | 4°25 | 13° 1 | 7° 1 | 12°22 | 4°D59 | 4° 4 | 5° 1 | n.a. | S 10 |
| S 11 | 3 8 50 | 16°30'09 | 29°10 | 27°58 | 23°36 | 15°59 | 2°25 | 4°22 | 13° 0 | 7° 0 | 12°21 | 4°R59 | 4° 1 | 5° 8 | n.a. | S 11 |
| M12 | 3 12 46 | 17°31'17 | 13♍22 | 27° 3 | 24°52 | 16°46 | 2°17 | 4°20 | 12°59 | 6°58 | 12°20 | 4°59 | 3°57 | 5°15 | n.a. | M12 |
| T 13 | 3 16 43 | 18°32'26 | 27°39 | 25°59 | 26° 7 | 17°33 | 2° 9 | 4°17 | 12°59 | 6°56 | 12°19 | 4°57 | 3°54 | 5°21 | n.a. | T 13 |
| W14 | 3 20 39 | 19°33'37 | 11♎59 | 24°46 | 27°22 | 18°19 | 2° 1 | 4°15 | 12°58 | 6°55 | 12°18 | 4°53 | 3°51 | 5°28 | n.a. | W14 |
| T 15 | 3 24 36 | 20°34'48 | 26°17 | 23°28 | 28°37 | 19° 6 | 1°54 | 4°12 | 12°57 | 6°53 | 12°17 | 4°45 | 3°48 | 5°35 | n.a. | T 15 |
| F 16 | 3 28 32 | 21°35'59 | 10♏30 | 22° 6 | 29°53 | 19°53 | 1°46 | 4° 9 | 12°57 | 6°51 | 12°16 | 4°35 | 3°45 | 5°41 | n.a. | F 16 |
| S 17 | 3 32 29 | 22°37'12 | 24°30 | 20°43 | 1♏ 8 | 20°40 | 1°38 | 4° 6 | 12°57 | 6°50 | 12°14 | 4°23 | 3°42 | 5°48 | n.a. | S 17 |
| S 18 | 3 36 26 | 23°38'25 | 8♐14 | 19°22 | 2°23 | 21°27 | 1°30 | 4° 3 | 12°56 | 6°48 | 12°13 | 4°10 | 3°38 | 5°55 | n.a. | S 18 |
| M19 | 3 40 22 | 24°39'39 | 21°37 | 18° 6 | 3°38 | 22°14 | 1°22 | 4° 0 | 12°56 | 6°47 | 12°12 | 3°57 | 3°35 | 6° 1 | n.a. | M19 |
| T 20 | 3 44 19 | 25°40'53 | 4♑38 | 16°57 | 4°54 | 23° 1 | 1°14 | 3°56 | 12°56 | 6°45 | 12°11 | 3°46 | 3°32 | 6° 8 | n.a. | T 20 |
| W21 | 3 48 15 | 26°42'07 | 17°17 | 15°57 | 6° 9 | 23°48 | 1° 6 | 3°53 | 12°55 | 6°43 | 12°10 | 3°38 | 3°29 | 6°15 | n.a. | W21 |
| T 22 | 3 52 12 | 27°43'21 | 29°37 | 15° 6 | 7°24 | 24°35 | 0°57 | 3°50 | 12°55 | 6°42 | 12° 9 | 3°33 | 3°26 | 6°21 | n.a. | T 22 |
| F 23 | 3 56 8 | 28°44'36 | 11♒42 | 14°26 | 8°39 | 25°22 | 0°49 | 3°46 | 12°55 | 6°40 | 12° 8 | 3°30 | 3°22 | 6°28 | n.a. | F 23 |
| S 24 | 4 0 5 | 29°45'50 | 23°35 | 13°57 | 9°55 | 26° 9 | 0°41 | 3°42 | 12°55 | 6°39 | 12° 7 | 3°29 | 3°19 | 6°34 | n.a. | S 24 |
| S 25 | 4 4 2 | 0♐47'05 | 5♓23 | 13°39 | 11°10 | 26°56 | 0°33 | 3°39 | 12°D55 | 6°37 | 12° 6 | 3°29 | 3°16 | 6°41 | n.a. | S 25 |
| M26 | 4 7 58 | 1°48'20 | 17°11 | 13°D31 | 12°25 | 27°43 | 0°25 | 3°35 | 12°55 | 6°36 | 12° 4 | 3°29 | 3°13 | 6°48 | n.a. | M26 |
| T 27 | 4 11 55 | 2°49'34 | 29° 5 | 13°33 | 13°41 | 28°30 | 0°17 | 3°31 | 12°55 | 6°34 | 12° 3 | 3°27 | 3°10 | 6°54 | n.a. | T 27 |
| W28 | 4 15 51 | 3°50'48 | 11♈ 9 | 13°44 | 14°56 | 29°17 | 0° 8 | 3°27 | 12°55 | 6°33 | 12° 2 | 3°23 | 3° 7 | 7° 1 | n.a. | W28 |
| T 29 | 4 19 48 | 4°52'03 | 23°29 | 14° 3 | 16°11 | 0♑ 5 | 0° 0 | 3°23 | 12°56 | 6°31 | 12° 1 | 3°16 | 3° 3 | 7° 8 | n.a. | T 29 |
| F 30 | 4 23 44 | 5♐53'17 | 6♉ 7 | 14♏29 | 17♏27 | 0♑52 | 29♉52 | 3♋19 | 12♓56 | 6♉30 | 12♉ 0 | 3♍ 6 | 3♍ 0 | 7♓14 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 13 s47 | 3n11 | 3 s13 | 22 s 2 | 2 s17 | 2 s56 | 1n38 | 22 s56 | 1 s 1 | 20n30 | 0 s37 | 23n20 | 0 s17 | 7 s25 | 0 s47 | 12n16 | 1 s55 | 4n49 | 11 s29 | 9n21 | 9n57 | 10 s 6 | | n.a. |
| F 2 | 14 7 | 7 7 | 4 0 | 22 6 | 2 11 | 3 26 | 1 37 | 23 4 | 1 2 | 20 29 | 0 36 | 23 20 | 0 17 | 7 25 | 0 47 | 12 16 | 1 55 | 4 49 | 11 29 | 9 25 | 9 58 | 10 4 | | n.a. |
| S 3 | 14 27 | 10 49 | 4 35 | 22 7 | 2 3 | 3 56 | 1 37 | 23 11 | 1 2 | 20 28 | 0 36 | 23 20 | 0 17 | 7 25 | 0 47 | 12 15 | 1 55 | 4 49 | 11 29 | 9 29 | 9 59 | 10 3 | | n.a. |
| S 4 | 14 47 | 14 5 | 4 56 | 22 5 | 1 55 | 4 27 | 1 36 | 23 18 | 1 2 | 20 27 | 0 36 | 23 20 | 0 17 | 7 26 | 0 47 | 12 15 | 1 55 | 4 48 | 11 29 | 9 33 | 10 1 | 10 1 | | n.a. |
| M 5 | 15 6 | 16 42 | 5 3 | 21 59 | 1 45 | 4 56 | 1 35 | 23 25 | 1 3 | 20 25 | 0 36 | 23 21 | 0 17 | 7 26 | 0 47 | 12 14 | 1 55 | 4 48 | 11 29 | 9 37 | 10 2 | 9 59 | | n.a. |
| T 6 | 15 25 | 18 27 | 4 53 | 21 50 | 1 33 | 5 26 | 1 34 | 23 32 | 1 3 | 20 24 | 0 36 | 23 21 | 0 17 | 7 26 | 0 47 | 12 14 | 1 55 | 4 48 | 11 29 | 9 41 | 10 3 | 9 58 | | n.a. |
| W 7 | 15 44 | 19 12 | 4 27 | 21 38 | 1 20 | 5 56 | 1 33 | 23 38 | 1 3 | 20 23 | 0 36 | 23 21 | 0 17 | 7 27 | 0 47 | 12 13 | 1 55 | 4 47 | 11 29 | 9 44 | 10 4 | 9 56 | | n.a. |
| T 8 | 16 3 | 18 51 | 3 45 | 21 21 | 1 6 | 6 26 | 1 32 | 23 44 | 1 3 | 20 22 | 0 36 | 23 21 | 0 17 | 7 27 | 0 47 | 12 13 | 1 55 | 4 47 | 11 29 | 9 46 | 10 5 | 9 54 | | n.a. |
| F 9 | 16 21 | 17 22 | 2 50 | 21 1 | 0 50 | 6 55 | 1 31 | 23 50 | 1 4 | 20 20 | 0 36 | 23 21 | 0 16 | 7 27 | 0 47 | 12 12 | 1 55 | 4 47 | 11 29 | 9 47 | 10 6 | 9 53 | | n.a. |
| S 10 | 16 39 | 14 50 | 1 44 | 20 37 | 0 32 | 7 25 | 1 30 | 23 56 | 1 4 | 20 19 | 0 36 | 23 21 | 0 16 | 7 28 | 0 46 | 12 12 | 1 55 | 4 46 | 11 29 | 9 47 | 10 8 | 9 51 | | n.a. |
| S 11 | 16 57 | 11 24 | 0 31 | 20 9 | 0 14 | 7 54 | 1 28 | 24 1 | 1 4 | 20 17 | 0 36 | 23 22 | 0 16 | 7 28 | 0 46 | 12 11 | 1 55 | 4 46 | 11 29 | 9 47 | 10 9 | 9 50 | | n.a. |
| M12 | 17 15 | 7 17 | 0n44 | 19 37 | 0n 6 | 8 23 | 1 27 | 24 6 | 1 5 | 20 16 | 0 35 | 23 22 | 0 16 | 7 28 | 0 46 | 12 10 | 1 55 | 4 46 | 11 29 | 9 47 | 10 10 | 9 48 | | n.a. |
| T 13 | 17 32 | 2 44 | 1 57 | 19 3 | 0 26 | 8 52 | 1 26 | 24 11 | 1 5 | 20 15 | 0 35 | 23 22 | 0 16 | 7 28 | 0 46 | 12 10 | 1 55 | 4 46 | 11 29 | 9 48 | 10 11 | 9 46 | | n.a. |
| W14 | 17 49 | 1 s59 | 3 3 | 18 25 | 0 46 | 9 21 | 1 24 | 24 16 | 1 5 | 20 13 | 0 35 | 23 22 | 0 16 | 7 28 | 0 46 | 12 9 | 1 55 | 4 45 | 11 29 | 9 50 | 10 12 | 9 45 | | n.a. |
| T 15 | 18 6 | 6 35 | 3 57 | 17 46 | 1 7 | 9 49 | 1 23 | 24 20 | 1 5 | 20 12 | 0 35 | 23 22 | 0 16 | 7 29 | 0 46 | 12 9 | 1 55 | 4 45 | 11 29 | 9 52 | 10 13 | 9 43 | | n.a. |
| F 16 | 18 22 | 10 47 | 4 35 | 17 6 | 1 26 | 10 17 | 1 21 | 24 24 | 1 5 | 20 10 | 0 35 | 23 22 | 0 16 | 7 29 | 0 46 | 12 8 | 1 55 | 4 45 | 11 29 | 9 56 | 10 15 | 9 41 | | n.a. |
| S 17 | 18 38 | 14 19 | 4 57 | 16 27 | 1 45 | 10 45 | 1 19 | 24 28 | 1 6 | 20 9 | 0 35 | 23 23 | 0 16 | 7 29 | 0 46 | 12 8 | 1 55 | 4 45 | 11 29 | 10 1 | 10 16 | 9 40 | | n.a. |
| S 18 | 18 53 | 16 59 | 5 0 | 15 49 | 2 1 | 11 13 | 1 18 | 24 31 | 1 6 | 20 7 | 0 35 | 23 23 | 0 16 | 7 29 | 0 46 | 12 7 | 1 55 | 4 44 | 11 28 | 10 5 | 10 17 | 9 38 | | n.a. |
| M19 | 19 9 | 18 40 | 4 47 | 15 14 | 2 16 | 11 40 | 1 16 | 24 34 | 1 6 | 20 6 | 0 35 | 23 23 | 0 16 | 7 29 | 0 46 | 12 7 | 1 55 | 4 44 | 11 28 | 10 10 | 10 18 | 9 36 | | n.a. |
| T 20 | 19 23 | 19 18 | 4 19 | 14 43 | 2 28 | 12 8 | 1 14 | 24 37 | 1 6 | 20 4 | 0 34 | 23 23 | 0 16 | 7 29 | 0 46 | 12 6 | 1 55 | 4 44 | 11 28 | 10 14 | 10 19 | 9 35 | | n.a. |
| W21 | 19 38 | 18 57 | 3 39 | 14 16 | 2 39 | 12 35 | 1 13 | 24 40 | 1 6 | 20 3 | 0 34 | 23 23 | 0 15 | 7 29 | 0 46 | 12 6 | 1 55 | 4 44 | 11 28 | 10 17 | 10 20 | 9 33 | | n.a. |
| T 22 | 19 52 | 17 42 | 2 49 | 13 54 | 2 47 | 13 1 | 1 11 | 24 42 | 1 7 | 20 1 | 0 34 | 23 24 | 0 15 | 7 29 | 0 46 | 12 5 | 1 55 | 4 43 | 11 28 | 10 19 | 10 22 | 9 31 | | n.a. |
| F 23 | 20 6 | 15 40 | 1 53 | 13 36 | 2 52 | 13 27 | 1 9 | 24 44 | 1 7 | 20 0 | 0 34 | 23 24 | 0 15 | 7 29 | 0 46 | 12 5 | 1 55 | 4 43 | 11 28 | 10 20 | 10 23 | 9 30 | | n.a. |
| S 24 | 20 19 | 12 59 | 0 52 | 13 24 | 2 56 | 13 53 | 1 7 | 24 46 | 1 7 | 19 58 | 0 34 | 23 24 | 0 15 | 7 29 | 0 46 | 12 4 | 1 55 | 4 43 | 11 28 | 10 20 | 10 24 | 9 28 | | n.a. |
| S 25 | 20 32 | 9 48 | 0 s10 | 13 17 | 2 58 | 14 19 | 1 5 | 24 47 | 1 7 | 19 56 | 0 34 | 23 24 | 0 15 | 7 29 | 0 46 | 12 4 | 1 55 | 4 43 | 11 28 | 10 20 | 10 25 | 9 26 | | n.a. |
| M26 | 20 45 | 6 13 | 1 12 | 13 15 | 2 58 | 14 44 | 1 3 | 24 48 | 1 7 | 19 55 | 0 34 | 23 24 | 0 15 | 7 29 | 0 46 | 12 3 | 1 55 | 4 43 | 11 28 | 10 20 | 10 26 | 9 25 | | n.a. |
| T 27 | 20 57 | 2 22 | 2 11 | 13 16 | 2 56 | 15 9 | 1 1 | 24 49 | 1 7 | 19 53 | 0 33 | 23 24 | 0 15 | 7 29 | 0 46 | 12 3 | 1 55 | 4 42 | 11 27 | 10 21 | 10 27 | 9 23 | | n.a. |
| W28 | 21 9 | 1n37 | 3 5 | 13 22 | 2 54 | 15 34 | 0 59 | 24 50 | 1 8 | 19 52 | 0 33 | 23 25 | 0 15 | 7 29 | 0 46 | 12 3 | 1 55 | 4 42 | 11 27 | 10 23 | 10 29 | 9 21 | | n.a. |
| T 29 | 21 21 | 5 38 | 3 52 | 13 31 | 2 50 | 15 58 | 0 57 | 24 50 | 1 8 | 19 50 | 0 33 | 23 25 | 0 15 | 7 29 | 0 46 | 12 2 | 1 55 | 4 42 | 11 27 | 10 25 | 10 30 | 9 20 | | n.a. |
| F 30 | 21 s32 | 9n29 | 4 s28 | 13 s44 | 2n46 | 16 s21 | 0n54 | 24 s50 | 1 s 8 | 19n49 | 0 s33 | 23n25 | 0 s15 | 7 s29 | 0 s46 | 12n 2 | 1 s55 | 4n42 | 11 s27 | 10n29 | 10n31 | 9 s18 | | n.a. |

Julian Day Number = 1689585.5, Delta T = 03h11m11s
Ecliptic obliquity = 23°42'12, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°16'06, Lahiri = - 5°09'05 Julian Calendar 1 Nov. 88 BCE == Greg. Calendar 30 Oct. 088 BCE

The year -87 astronomical counting style corresponds to year 088 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 88 BCE
# geocentric

## DECEMBER 88 BCE (-87) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 4 27 41 | 6♐54'31 | 19♉ 4 | 15♏ 3 | 18♏42 | 1♑39 | 29°R44 | 3°R15 | 12♓56 | 6°R28 | 11°R59 | 2°R54 | 2♍57 | 7♓21 | n.a. | S 1 |
| S 2 | 4 31 37 | 7°55'45 | 2♊21 | 15°42 | 19°57 | 2°26 | 29♉36 | 3♋11 | 12°56 | 6♉27 | 11♉58 | 2♍40 | 2°54 | 7°28 | n.a. | S 2 |
| M 3 | 4 35 34 | 8°56'59 | 15°55 | 16°27 | 21°13 | 3°13 | 29°28 | 3° 7 | 12°57 | 6°26 | 11°57 | 2°27 | 2°51 | 7°34 | n.a. | M 3 |
| T 4 | 4 39 31 | 9°58'13 | 29°43 | 17°16 | 22°28 | 4° 1 | 29°20 | 3° 3 | 12°57 | 6°24 | 11°56 | 2°15 | 2°48 | 7°41 | n.a. | T 4 |
| W 5 | 4 43 27 | 10°59'27 | 13♋42 | 18°10 | 23°43 | 4°48 | 29°13 | 2°58 | 12°58 | 6°23 | 11°55 | 2° 6 | 2°44 | 7°48 | n.a. | W 5 |
| T 6 | 4 47 24 | 12° 0'42 | 27°47 | 19° 8 | 24°59 | 5°35 | 29° 5 | 2°54 | 12°58 | 6°22 | 11°54 | 1°59 | 2°41 | 7°54 | n.a. | T 6 |
| F 7 | 4 51 20 | 13° 1'56 | 11♌55 | 20° 9 | 26°14 | 6°22 | 28°57 | 2°49 | 12°59 | 6°20 | 11°53 | 1°55 | 2°38 | 8° 1 | n.a. | F 7 |
| S 8 | 4 55 17 | 14° 3'10 | 26° 2 | 21°13 | 27°29 | 7°10 | 28°49 | 2°45 | 13° 0 | 6°19 | 11°52 | 1°54 | 2°35 | 8° 8 | n.a. | S 8 |
| S 9 | 4 59 13 | 15° 4'24 | 10♍ 8 | 22°20 | 28°45 | 7°57 | 28°42 | 2°40 | 13° 0 | 6°18 | 11°51 | 1°54 | 2°32 | 8°14 | n.a. | S 9 |
| M10 | 5 3 10 | 16° 5'38 | 24°12 | 23°30 | 29°59 | 8°44 | 28°34 | 2°36 | 13° 1 | 6°16 | 11°50 | 1°54 | 2°28 | 8°21 | n.a. | M10 |
| T 11 | 5 7 6 | 17° 6'52 | 8♎13 | 24°41 | 1♐15 | 9°32 | 28°27 | 2°31 | 13° 2 | 6°15 | 11°49 | 1°52 | 2°25 | 8°27 | n.a. | T 11 |
| W12 | 5 11 3 | 18° 8'06 | 22°10 | 25°54 | 2°31 | 10°19 | 28°20 | 2°26 | 13° 3 | 6°14 | 11°49 | 1°48 | 2°22 | 8°34 | n.a. | W12 |
| T 13 | 5 15 0 | 19° 9'20 | 6♏ 2 | 27° 9 | 3°46 | 11° 6 | 28°13 | 2°22 | 13° 4 | 6°13 | 11°48 | 1°41 | 2°19 | 8°41 | n.a. | T 13 |
| F 14 | 5 18 56 | 20°10'33 | 19°47 | 28°26 | 5° 1 | 11°54 | 28° 5 | 2°17 | 13° 5 | 6°12 | 11°47 | 1°32 | 2°16 | 8°47 | n.a. | F 14 |
| S 15 | 5 22 53 | 21°11'47 | 3♐21 | 29°44 | 6°16 | 12°41 | 27°59 | 2°12 | 13° 6 | 6°11 | 11°46 | 1°20 | 2°13 | 8°54 | n.a. | S 15 |
| S 16 | 5 26 49 | 22°12'59 | 16°42 | 1♐ 4 | 7°32 | 13°28 | 27°52 | 2° 7 | 13° 7 | 6°10 | 11°45 | 1° 8 | 2° 9 | 9° 1 | n.a. | S 16 |
| M17 | 5 30 46 | 23°14'12 | 29°48 | 2°24 | 8°47 | 14°16 | 27°45 | 2° 2 | 13° 8 | 6° 9 | 11°44 | 0°56 | 2° 6 | 9° 7 | n.a. | M17 |
| T 18 | 5 34 42 | 24°15'23 | 12♑37 | 3°46 | 10° 2 | 15° 3 | 27°38 | 1°58 | 13° 9 | 6° 7 | 11°43 | 0°45 | 2° 3 | 9°14 | n.a. | T 18 |
| W19 | 5 38 39 | 25°16'34 | 25° 9 | 5° 9 | 11°18 | 15°51 | 27°32 | 1°53 | 13°10 | 6° 6 | 11°43 | 0°37 | 2° 0 | 9°21 | n.a. | W19 |
| T 20 | 5 42 35 | 26°17'44 | 7♒25 | 6°32 | 12°33 | 16°38 | 27°26 | 1°48 | 13°12 | 6° 6 | 11°42 | 0°31 | 1°57 | 9°27 | n.a. | T 20 |
| F 21 | 5 46 32 | 27°18'53 | 19°28 | 7°57 | 13°48 | 17°25 | 27°19 | 1°43 | 13°13 | 6° 5 | 11°41 | 0°29 | 1°54 | 9°34 | n.a. | F 21 |
| S 22 | 5 50 29 | 28°20'01 | 1♓21 | 9°22 | 15° 4 | 18°13 | 27°13 | 1°38 | 13°14 | 6° 4 | 11°40 | 0°D28 | 1°50 | 9°41 | n.a. | S 22 |
| S 23 | 5 54 25 | 29°21'08 | 13° 9 | 10°49 | 16°19 | 19° 0 | 27° 8 | 1°33 | 13°16 | 6° 3 | 11°40 | 0°29 | 1°47 | 9°47 | n.a. | S 23 |
| M24 | 5 58 22 | 0♑22'14 | 24°56 | 12°16 | 17°34 | 19°47 | 27° 2 | 1°28 | 13°17 | 6° 2 | 11°39 | 0°R29 | 1°44 | 9°54 | n.a. | M24 |
| T 25 | 6 2 18 | 1°23'19 | 6♈50 | 13°43 | 18°49 | 20°35 | 26°56 | 1°23 | 13°19 | 6° 1 | 11°38 | 0°29 | 1°41 | 10° 1 | n.a. | T 25 |
| W26 | 6 6 15 | 2°24'22 | 18°54 | 15°12 | 20° 5 | 21°22 | 26°51 | 1°18 | 13°20 | 6° 0 | 11°37 | 0°28 | 1°38 | 10° 7 | n.a. | W26 |
| T 27 | 6 10 11 | 3°25'25 | 1♉14 | 16°41 | 21°20 | 22° 9 | 26°46 | 1°13 | 13°22 | 6° 0 | 11°37 | 0°24 | 1°34 | 10°14 | n.a. | T 27 |
| F 28 | 6 14 8 | 4°26'26 | 13°55 | 18°11 | 22°35 | 22°57 | 26°41 | 1° 8 | 13°24 | 5°59 | 11°36 | 0°18 | 1°31 | 10°20 | n.a. | F 28 |
| S 29 | 6 18 4 | 5°27'26 | 26°58 | 19°41 | 23°50 | 23°44 | 26°36 | 1° 3 | 13°25 | 5°58 | 11°35 | 0°10 | 1°28 | 10°27 | n.a. | S 29 |
| S 30 | 6 22 1 | 6°28'24 | 10♊26 | 21°13 | 25° 5 | 24°31 | 26°31 | 0°59 | 13°27 | 5°57 | 11°35 | 0° 0 | 1°25 | 10°34 | n.a. | S 30 |
| M31 | 6 25 58 | 7♑29'22 | 24♊17 | 22♐45 | 26♐21 | 25♑19 | 26♉26 | 0♋54 | 13♓29 | 5♉57 | 11♉34 | 29♌51 | 1♍22 | 10♓40 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21s42 | 13n 0 | 4s52 | 13s59 | 2n40 | 16s45 | 0n52 | 24s49 | 1s 8 | 19n47 | 0s33 | 23n25 | 0s14 | 7s29 | 0s46 | 12n 1 | 1s55 | 4n42 | 11s27 | 10n33 | 10n32 | 9s16 | | n.a. |
| S 2 | 21 52 | 15 57 | 5 0 | 14 16 | 2 34 | 17 7 | 0 50 | 24 49 | 1 8 | 19 45 | 0 33 | 23 25 | 0 14 | 7 28 | 0 46 | 12 1 | 1 55 | 4 41 | 11 27 | 10 38 | 10 33 | 9 15 | | n.a. |
| M 3 | 22 2 | 18 6 | 4 52 | 14 35 | 2 28 | 17 30 | 0 48 | 24 48 | 1 8 | 19 44 | 0 32 | 23 26 | 0 14 | 7 28 | 0 46 | 12 0 | 1 55 | 4 41 | 11 27 | 10 43 | 10 34 | 9 13 | | n.a. |
| T 4 | 22 11 | 19 15 | 4 27 | 14 56 | 2 20 | 17 51 | 0 45 | 24 47 | 1 8 | 19 42 | 0 32 | 23 26 | 0 14 | 7 28 | 0 46 | 12 0 | 1 55 | 4 41 | 11 26 | 10 47 | 10 35 | 9 11 | | n.a. |
| W 5 | 22 20 | 19 15 | 3 46 | 15 18 | 2 13 | 18 13 | 0 43 | 24 45 | 1 8 | 19 41 | 0 32 | 23 26 | 0 14 | 7 28 | 0 45 | 12 0 | 1 55 | 4 41 | 11 26 | 10 51 | 10 37 | 9 10 | | n.a. |
| T 6 | 22 29 | 18 3 | 2 50 | 15 41 | 2 5 | 18 34 | 0 41 | 24 43 | 1 8 | 19 39 | 0 32 | 23 26 | 0 14 | 7 27 | 0 45 | 11 59 | 1 55 | 4 41 | 11 26 | 10 53 | 10 38 | 9 8 | | n.a. |
| F 7 | 22 37 | 15 45 | 1 44 | 16 5 | 1 58 | 18 54 | 0 38 | 24 41 | 1 8 | 19 38 | 0 32 | 23 26 | 0 14 | 7 27 | 0 45 | 11 59 | 1 55 | 4 41 | 11 26 | 10 54 | 10 39 | 9 6 | | n.a. |
| S 8 | 22 44 | 12 29 | 0 31 | 16 30 | 1 49 | 19 14 | 0 36 | 24 39 | 1 8 | 19 36 | 0 32 | 23 27 | 0 14 | 7 27 | 0 45 | 11 58 | 1 55 | 4 41 | 11 26 | 10 55 | 10 40 | 9 5 | | n.a. |
| S 9 | 22 51 | 8 31 | 0n44 | 16 56 | 1 41 | 19 33 | 0 34 | 24 36 | 1 8 | 19 35 | 0 31 | 23 27 | 0 14 | 7 27 | 0 45 | 11 58 | 1 54 | 4 40 | 11 26 | 10 55 | 10 41 | 9 3 | | n.a. |
| M10 | 22 58 | 4 5 | 1 55 | 17 21 | 1 33 | 19 52 | 0 31 | 24 33 | 1 8 | 19 33 | 0 31 | 23 27 | 0 14 | 7 26 | 0 45 | 11 58 | 1 54 | 4 40 | 11 25 | 10 55 | 10 42 | 9 1 | | n.a. |
| T 11 | 23 4 | 0s33 | 3 0 | 17 47 | 1 25 | 20 10 | 0 29 | 24 30 | 1 9 | 19 32 | 0 31 | 23 27 | 0 13 | 7 26 | 0 45 | 11 57 | 1 54 | 4 40 | 11 25 | 10 55 | 10 44 | 8 59 | | n.a. |
| W12 | 23 10 | 5 7 | 3 53 | 18 13 | 1 16 | 20 28 | 0 26 | 24 26 | 1 9 | 19 30 | 0 31 | 23 27 | 0 13 | 7 26 | 0 45 | 11 57 | 1 54 | 4 40 | 11 25 | 10 57 | 10 45 | 8 58 | | n.a. |
| T 13 | 23 15 | 9 24 | 4 33 | 18 38 | 1 8 | 20 45 | 0 24 | 24 22 | 1 9 | 19 29 | 0 31 | 23 28 | 0 13 | 7 25 | 0 45 | 11 57 | 1 54 | 4 40 | 11 25 | 10 59 | 10 46 | 8 56 | | n.a. |
| F 14 | 23 20 | 13 8 | 4 56 | 19 4 | 1 0 | 21 1 | 0 22 | 24 18 | 1 9 | 19 27 | 0 31 | 23 28 | 0 13 | 7 25 | 0 45 | 11 56 | 1 54 | 4 40 | 11 25 | 11 3 | 10 47 | 8 54 | | n.a. |
| S 15 | 23 24 | 16 7 | 5 2 | 19 29 | 0 51 | 21 17 | 0 19 | 24 14 | 1 9 | 19 26 | 0 30 | 23 28 | 0 13 | 7 24 | 0 45 | 11 56 | 1 54 | 4 40 | 11 25 | 11 7 | 10 48 | 8 53 | | n.a. |
| S 16 | 23 28 | 18 12 | 4 51 | 19 54 | 0 43 | 21 32 | 0 17 | 24 9 | 1 9 | 19 25 | 0 30 | 23 28 | 0 13 | 7 24 | 0 45 | 11 56 | 1 54 | 4 40 | 11 24 | 11 12 | 10 49 | 8 51 | | n.a. |
| M17 | 23 32 | 19 17 | 4 25 | 20 18 | 0 35 | 21 47 | 0 14 | 24 4 | 1 9 | 19 23 | 0 30 | 23 28 | 0 13 | 7 23 | 0 45 | 11 55 | 1 54 | 4 40 | 11 24 | 11 16 | 10 50 | 8 49 | | n.a. |
| T 18 | 23 35 | 19 21 | 3 46 | 20 42 | 0 27 | 22 1 | 0 12 | 23 59 | 1 9 | 19 22 | 0 30 | 23 29 | 0 13 | 7 23 | 0 45 | 11 55 | 1 54 | 4 40 | 11 24 | 11 20 | 10 52 | 8 47 | | n.a. |
| W19 | 23 37 | 18 27 | 2 57 | 21 5 | 0 19 | 22 14 | 0 9 | 23 53 | 1 9 | 19 21 | 0 30 | 23 29 | 0 13 | 7 22 | 0 45 | 11 55 | 1 54 | 4 40 | 11 24 | 11 23 | 10 53 | 8 46 | | n.a. |
| T 20 | 23 39 | 16 41 | 2 0 | 21 28 | 0 11 | 22 26 | 0 7 | 23 47 | 1 8 | 19 20 | 0 29 | 23 29 | 0 13 | 7 22 | 0 45 | 11 54 | 1 54 | 4 40 | 11 24 | 11 25 | 10 54 | 8 44 | | n.a. |
| F 21 | 23 41 | 14 13 | 0 59 | 21 49 | 0 3 | 22 38 | 0 4 | 23 41 | 1 8 | 19 18 | 0 29 | 23 29 | 0 12 | 7 21 | 0 45 | 11 54 | 1 54 | 4 40 | 11 23 | 11 26 | 10 55 | 8 42 | | n.a. |
| S 22 | 23 42 | 11 11 | 0s 5 | 22 10 | 0s 4 | 22 50 | 0 2 | 23 35 | 1 8 | 19 17 | 0 29 | 23 29 | 0 12 | 7 21 | 0 45 | 11 54 | 1 54 | 4 40 | 11 23 | 11 26 | 10 56 | 8 41 | | n.a. |
| S 23 | 23 42 | 7 44 | 1 7 | 22 30 | 0 12 | 23 0 | 0s 1 | 23 28 | 1 8 | 19 16 | 0 29 | 23 29 | 0 12 | 7 20 | 0 45 | 11 54 | 1 54 | 4 40 | 11 23 | 11 26 | 10 57 | 8 39 | | n.a. |
| M24 | 23 42 | 3 59 | 2 7 | 22 50 | 0 19 | 23 10 | 0 3 | 23 21 | 1 8 | 19 15 | 0 29 | 23 30 | 0 12 | 7 20 | 0 45 | 11 54 | 1 54 | 4 40 | 11 23 | 11 25 | 10 58 | 8 37 | | n.a. |
| T 25 | 23 42 | 0 3 | 3 2 | 23 8 | 0 26 | 23 19 | 0 6 | 23 14 | 1 8 | 19 14 | 0 28 | 23 30 | 0 12 | 7 19 | 0 45 | 11 53 | 1 54 | 4 40 | 11 22 | 11 25 | 11 0 | 8 35 | | n.a. |
| W26 | 23 41 | 3n57 | 3 50 | 23 25 | 0 33 | 23 28 | 0 8 | 23 6 | 1 8 | 19 13 | 0 28 | 23 30 | 0 12 | 7 18 | 0 45 | 11 53 | 1 54 | 4 40 | 11 22 | 11 26 | 11 1 | 8 34 | | n.a. |
| T 27 | 23 39 | 7 51 | 4 28 | 23 41 | 0 40 | 23 35 | 0 11 | 22 59 | 1 8 | 19 12 | 0 28 | 23 30 | 0 12 | 7 18 | 0 45 | 11 53 | 1 54 | 4 40 | 11 22 | 11 27 | 11 2 | 8 32 | | n.a. |
| F 28 | 23 38 | 11 31 | 4 54 | 23 56 | 0 46 | 23 43 | 0 13 | 22 51 | 1 8 | 19 11 | 0 28 | 23 30 | 0 12 | 7 17 | 0 45 | 11 53 | 1 53 | 4 40 | 11 22 | 11 29 | 11 3 | 8 30 | | n.a. |
| S 29 | 23 35 | 14 44 | 5 6 | 24 10 | 0 53 | 23 49 | 0 15 | 22 42 | 1 8 | 19 10 | 0 28 | 23 30 | 0 12 | 7 16 | 0 45 | 11 53 | 1 53 | 4 40 | 11 21 | 11 32 | 11 4 | 8 28 | | n.a. |
| S 30 | 23 33 | 17 17 | 5 1 | 24 23 | 0 59 | 23 54 | 0 18 | 22 34 | 1 8 | 19 9 | 0 27 | 23 31 | 0 11 | 7 16 | 0 44 | 11 52 | 1 53 | 4 40 | 11 21 | 11 36 | 11 5 | 8 27 | | n.a. |
| M31 | 23s29 | 18n56 | 4s39 | 24s35 | 1s 5 | 23s59 | 0s20 | 22s25 | 1s 8 | 19n 8 | 0s27 | 23n31 | 0s11 | 7s15 | 0s44 | 11n52 | 1s53 | 4n40 | 11s21 | 11n39 | 11n 6 | 8s25 | | n.a. |

Julian Day Number = 1689615.5, Delta T = 03h11m10s
Ecliptic obliquity = 23°42'12, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°16'02, Lahiri = - 5°09'01 Julian Calendar 1 Dec. 88 BCE == Greg. Calendar 29 Nov. 088 BCE

The year -87 astronomical counting style corresponds to year 088 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 87 BCE
# geocentric

## JANUARY 87 BCE (-86) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 29 54 | 8♑30'18 | 8♋27 | 24♐17 | 27♐36 | 26♑ 6 | 26°R22 | 0°R49 | 13♓31 | 5°R56 | 11°R34 | 29°R42 | 1♍19 | 10♓47 | n.a. | T 1 |
| W 2 | 6 33 51 | 9°31'13 | 22°52 | 25°51 | 28°51 | 26°53 | 26♉18 | 0♋44 | 13°32 | 5♉56 | 11♉33 | 29♌36 | 1°15 | 10°54 | n.a. | W 2 |
| T 3 | 6 37 47 | 10°32'07 | 7♌25 | 27°25 | 0♑ 6 | 27°41 | 26°14 | 0°39 | 13°34 | 5°55 | 11°33 | 29°31 | 1°12 | 11° 0 | n.a. | T 3 |
| F 4 | 6 41 44 | 11°33'00 | 22° 0 | 29° 0 | 1°21 | 28°28 | 26°10 | 0°34 | 13°36 | 5°55 | 11°32 | 29°29 | 1° 9 | 11° 7 | n.a. | F 4 |
| S 5 | 6 45 40 | 12°33'51 | 6♍30 | 0♑35 | 2°36 | 29°15 | 26° 6 | 0°29 | 13°38 | 5°54 | 11°32 | 29°D29 | 1° 6 | 11°14 | n.a. | S 5 |
| S 6 | 6 49 37 | 13°34'42 | 20°53 | 2°11 | 3°52 | 0♒ 2 | 26° 3 | 0°25 | 13°40 | 5°54 | 11°31 | 29°30 | 1° 3 | 11°20 | n.a. | S 6 |
| M 7 | 6 53 34 | 14°35'32 | 5♎ 5 | 3°48 | 5° 7 | 0°50 | 26° 0 | 0°20 | 13°42 | 5°53 | 11°31 | 29°32 | 1° 0 | 11°27 | n.a. | M 7 |
| T 8 | 6 57 30 | 15°36'20 | 19° 4 | 5°26 | 6°22 | 1°37 | 25°56 | 0°15 | 13°45 | 5°53 | 11°30 | 29°R32 | 0°56 | 11°34 | n.a. | T 8 |
| W 9 | 7 1 27 | 16°37'08 | 2♏52 | 7° 4 | 7°37 | 2°24 | 25°54 | 0°11 | 13°47 | 5°53 | 11°30 | 29°31 | 0°53 | 11°40 | n.a. | W 9 |
| T 10 | 7 5 23 | 17°37'54 | 16°26 | 8°44 | 8°52 | 3°11 | 25°51 | 0° 6 | 13°49 | 5°52 | 11°29 | 29°27 | 0°50 | 11°47 | n.a. | T 10 |
| F 11 | 7 9 20 | 18°38'39 | 29°48 | 10°24 | 10° 7 | 3°59 | 25°48 | 0° 2 | 13°51 | 5°52 | 11°29 | 29°22 | 0°47 | 11°54 | n.a. | F 11 |
| S 12 | 7 13 16 | 19°39'23 | 12♐58 | 12° 5 | 11°22 | 4°46 | 25°46 | 29♊57 | 13°53 | 5°52 | 11°29 | 29°16 | 0°44 | 12° 0 | n.a. | S 12 |
| S 13 | 7 17 13 | 20°40'06 | 25°54 | 13°46 | 12°37 | 5°33 | 25°44 | 29°53 | 13°56 | 5°51 | 11°28 | 29° 9 | 0°40 | 12° 7 | n.a. | S 13 |
| M14 | 7 21 9 | 21°40'47 | 8♑38 | 15°29 | 13°52 | 6°20 | 25°42 | 29°48 | 13°58 | 5°51 | 11°28 | 29° 2 | 0°37 | 12°13 | n.a. | M14 |
| T 15 | 7 25 6 | 22°41'27 | 21° 9 | 17°12 | 15° 8 | 7° 7 | 25°40 | 29°44 | 14° 1 | 5°51 | 11°28 | 28°56 | 0°34 | 12°20 | n.a. | T 15 |
| W16 | 7 29 3 | 23°42'05 | 3♒28 | 18°56 | 16°23 | 7°54 | 25°39 | 29°39 | 14° 3 | 5°51 | 11°28 | 28°51 | 0°31 | 12°27 | n.a. | W16 |
| T 17 | 7 32 59 | 24°42'42 | 15°35 | 20°42 | 17°38 | 8°41 | 25°38 | 29°35 | 14° 5 | 5°51 | 11°27 | 28°48 | 0°28 | 12°33 | n.a. | T 17 |
| F 18 | 7 36 56 | 25°43'16 | 27°32 | 22°28 | 18°53 | 9°28 | 25°37 | 29°31 | 14° 8 | 5°D51 | 11°27 | 28°D48 | 0°25 | 12°40 | n.a. | F 18 |
| S 19 | 7 40 52 | 26°43'49 | 9♓23 | 24°14 | 20° 8 | 10°15 | 25°36 | 29°27 | 14°11 | 5°51 | 11°27 | 28°48 | 0°21 | 12°47 | n.a. | S 19 |
| S 20 | 7 44 49 | 27°44'20 | 21°10 | 26° 2 | 21°23 | 11° 2 | 25°35 | 29°23 | 14°13 | 5°51 | 11°27 | 28°50 | 0°18 | 12°53 | n.a. | S 20 |
| M21 | 7 48 45 | 28°44'49 | 2♈58 | 27°51 | 22°38 | 11°49 | 25°34 | 29°19 | 14°16 | 5°51 | 11°27 | 28°51 | 0°15 | 13° 0 | n.a. | M21 |
| T 22 | 7 52 42 | 29°45'17 | 14°51 | 29°40 | 23°53 | 12°36 | 25°34 | 29°15 | 14°18 | 5°51 | 11°26 | 28°53 | 0°12 | 13° 7 | n.a. | T 22 |
| W23 | 7 56 38 | 0♒45'42 | 26°53 | 1♒31 | 25° 8 | 13°23 | 25°D34 | 29°11 | 14°21 | 5°51 | 11°26 | 28°R54 | 0° 9 | 13°13 | n.a. | W23 |
| T 24 | 8 0 35 | 1°46'05 | 9♉11 | 3°22 | 26°23 | 14°10 | 25°34 | 29° 7 | 14°24 | 5°52 | 11°26 | 28°54 | 0° 6 | 13°20 | n.a. | T 24 |
| F 25 | 8 4 32 | 2°46'26 | 21°48 | 5°14 | 27°38 | 14°57 | 25°34 | 29° 4 | 14°26 | 5°52 | 11°26 | 28°52 | 0° 2 | 13°27 | n.a. | F 25 |
| S 26 | 8 8 28 | 3°46'45 | 4♊49 | 7° 6 | 28°52 | 15°44 | 25°35 | 29° 0 | 14°29 | 5°52 | 11°26 | 28°50 | 29♌59 | 13°33 | n.a. | S 26 |
| S 27 | 8 12 25 | 4°47'02 | 18°16 | 9° 0 | 0♒ 7 | 16°31 | 25°36 | 28°57 | 14°32 | 5°52 | 11°D26 | 28°47 | 29°56 | 13°40 | n.a. | S 27 |
| M28 | 8 16 21 | 5°47'16 | 2♋ 9 | 10°54 | 1°22 | 17°17 | 25°37 | 28°53 | 14°35 | 5°53 | 11°26 | 28°43 | 29°53 | 13°47 | n.a. | M28 |
| T 29 | 8 20 18 | 6°47'29 | 16°28 | 12°48 | 2°37 | 18° 4 | 25°38 | 28°50 | 14°38 | 5°53 | 11°26 | 28°40 | 29°50 | 13°53 | n.a. | T 29 |
| W30 | 8 24 14 | 7°47'40 | 1♌ 7 | 14°42 | 3°52 | 18°51 | 25°39 | 28°47 | 14°41 | 5°53 | 11°26 | 28°37 | 29°46 | 14° 0 | n.a. | W30 |
| T 31 | 8 28 11 | 8♒47'49 | 16♌ 1 | 16♒37 | 5♒ 7 | 19♒38 | 25♉41 | 28♊43 | 14♓43 | 5♉54 | 11♉26 | 28♌36 | 29♌43 | 14♓ 7 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| T 1 | 23s26 | 19n27 | 4s 0 | 24s45 | 1s10 | 24s 3 | 0s22 | 22s16 | 1s 7 | 19n 7 | 0s27 | 23n31 | 0s11 | 7s14 | 0s44 | 11n52 | 1s53 | 4n40 | 11s21 | 11n42 | 11n 8 | 8s23 | | | n.a. |
| W 2 | 23 21 | 18 43 | 3 4 | 24 54 | 1 16 | 24 7 | 0 25 | 22 7 | 1 7 | 19 6 | 0 27 | 23 31 | 0 11 | 7 13 | 0 44 | 11 52 | 1 53 | 4 40 | 11 21 | 11 44 | 11 9 | 8 21 | | | n.a. |
| T 3 | 23 17 | 16 45 | 1 56 | 25 2 | 1 21 | 24 9 | 0 27 | 21 57 | 1 7 | 19 6 | 0 26 | 23 31 | 0 11 | 7 13 | 0 44 | 11 52 | 1 53 | 4 40 | 11 20 | 11 46 | 11 10 | 8 20 | | | n.a. |
| F 4 | 23 12 | 13 42 | 0 40 | 25 8 | 1 26 | 24 11 | 0 29 | 21 47 | 1 7 | 19 5 | 0 26 | 23 31 | 0 11 | 7 12 | 0 44 | 11 52 | 1 53 | 4 40 | 11 20 | 11 47 | 11 11 | 8 18 | | | n.a. |
| S 5 | 23 6 | 9 49 | 0n38 | 25 13 | 1 31 | 24 12 | 0 32 | 21 37 | 1 7 | 19 4 | 0 26 | 23 31 | 0 11 | 7 11 | 0 44 | 11 52 | 1 53 | 4 40 | 11 20 | 11 47 | 11 12 | 8 16 | | | n.a. |
| S 6 | 23 0 | 5 23 | 1 53 | 25 16 | 1 35 | 24 12 | 0 34 | 21 27 | 1 7 | 19 4 | 0 26 | 23 32 | 0 11 | 7 10 | 0 44 | 11 52 | 1 53 | 4 40 | 11 20 | 11 46 | 11 13 | 8 14 | | | n.a. |
| M 7 | 22 54 | 0 43 | 3 1 | 25 18 | 1 39 | 24 12 | 0 36 | 21 17 | 1 7 | 19 3 | 0 26 | 23 32 | 0 11 | 7 9 | 0 44 | 11 51 | 1 53 | 4 41 | 11 19 | 11 46 | 11 14 | 8 13 | | | n.a. |
| T 8 | 22 47 | 3s55 | 3 56 | 25 18 | 1 43 | 24 11 | 0 38 | 21 6 | 1 6 | 19 2 | 0 25 | 23 32 | 0 10 | 7 8 | 0 44 | 11 51 | 1 53 | 4 41 | 11 19 | 11 46 | 11 16 | 8 11 | | | n.a. |
| W 9 | 22 39 | 8 16 | 4 37 | 25 17 | 1 47 | 24 9 | 0 40 | 20 55 | 1 6 | 19 2 | 0 25 | 23 32 | 0 10 | 7 8 | 0 44 | 11 51 | 1 53 | 4 41 | 11 19 | 11 46 | 11 17 | 8 9 | | | n.a. |
| T 10 | 22 32 | 12 7 | 5 2 | 25 14 | 1 50 | 24 6 | 0 42 | 20 44 | 1 6 | 19 2 | 0 25 | 23 32 | 0 10 | 7 7 | 0 44 | 11 51 | 1 53 | 4 41 | 11 18 | 11 47 | 11 18 | 8 7 | | | n.a. |
| F 11 | 22 23 | 15 17 | 5 10 | 25 10 | 1 53 | 24 3 | 0 44 | 20 32 | 1 6 | 19 1 | 0 25 | 23 32 | 0 10 | 7 6 | 0 44 | 11 51 | 1 53 | 4 41 | 11 18 | 11 49 | 11 19 | 8 6 | | | n.a. |
| S 12 | 22 15 | 17 37 | 5 1 | 25 3 | 1 55 | 23 59 | 0 46 | 20 21 | 1 6 | 19 1 | 0 25 | 23 32 | 0 10 | 7 5 | 0 44 | 11 51 | 1 52 | 4 41 | 11 18 | 11 51 | 11 20 | 8 4 | | | n.a. |
| S 13 | 22 6 | 19 1 | 4 37 | 24 56 | 1 57 | 23 54 | 0 48 | 20 9 | 1 5 | 19 1 | 0 24 | 23 32 | 0 10 | 7 4 | 0 44 | 11 51 | 1 52 | 4 41 | 11 18 | 11 54 | 11 21 | 8 2 | | | n.a. |
| M14 | 21 56 | 19 26 | 4 0 | 24 46 | 1 59 | 23 48 | 0 50 | 19 57 | 1 5 | 19 0 | 0 24 | 23 32 | 0 10 | 7 3 | 0 44 | 11 51 | 1 52 | 4 41 | 11 17 | 11 56 | 11 22 | 8 0 | | | n.a. |
| T 15 | 21 46 | 18 53 | 3 11 | 24 34 | 2 0 | 23 42 | 0 52 | 19 45 | 1 5 | 19 0 | 0 24 | 23 33 | 0 10 | 7 2 | 0 44 | 11 51 | 1 52 | 4 42 | 11 17 | 11 58 | 11 24 | 7 59 | | | n.a. |
| W16 | 21 36 | 17 25 | 2 14 | 24 21 | 2 1 | 23 35 | 0 54 | 19 32 | 1 5 | 19 0 | 0 24 | 23 33 | 0 9 | 7 1 | 0 44 | 11 51 | 1 52 | 4 42 | 11 17 | 12 0 | 11 25 | 7 57 | | | n.a. |
| T 17 | 21 25 | 15 12 | 1 12 | 24 6 | 2 2 | 23 27 | 0 56 | 19 20 | 1 5 | 19 0 | 0 24 | 23 33 | 0 9 | 7 0 | 0 44 | 11 51 | 1 52 | 4 42 | 11 17 | 12 1 | 11 26 | 7 55 | | | n.a. |
| F 18 | 21 14 | 12 21 | 0 7 | 23 49 | 2 2 | 23 18 | 0 58 | 19 7 | 1 4 | 19 0 | 0 23 | 23 33 | 0 9 | 6 59 | 0 44 | 11 51 | 1 52 | 4 42 | 11 16 | 12 1 | 11 27 | 7 53 | | | n.a. |
| S 19 | 21 2 | 9 2 | 0s58 | 23 30 | 2 2 | 23 9 | 0 59 | 18 54 | 1 4 | 19 0 | 0 23 | 23 33 | 0 9 | 6 58 | 0 44 | 11 51 | 1 52 | 4 42 | 11 16 | 12 1 | 11 28 | 7 52 | | | n.a. |
| S 20 | 20 51 | 5 22 | 2 0 | 23 9 | 2 1 | 22 59 | 1 1 | 18 40 | 1 4 | 19 0 | 0 23 | 23 33 | 0 9 | 6 57 | 0 44 | 11 52 | 1 52 | 4 43 | 11 16 | 12 1 | 11 29 | 7 50 | | | n.a. |
| M21 | 20 38 | 1 30 | 2 57 | 22 46 | 2 0 | 22 49 | 1 3 | 18 27 | 1 4 | 19 0 | 0 23 | 23 33 | 0 9 | 6 56 | 0 44 | 11 52 | 1 52 | 4 43 | 11 16 | 12 0 | 11 30 | 7 48 | | | n.a. |
| T 22 | 20 26 | 2n26 | 3 47 | 22 22 | 1 58 | 22 37 | 1 4 | 18 13 | 1 3 | 19 0 | 0 23 | 23 33 | 0 9 | 6 55 | 0 44 | 11 52 | 1 52 | 4 43 | 11 15 | 11 59 | 11 32 | 7 46 | | | n.a. |
| W23 | 20 13 | 6 19 | 4 27 | 21 55 | 1 56 | 22 25 | 1 6 | 18 0 | 1 3 | 19 0 | 0 22 | 23 33 | 0 9 | 6 54 | 0 44 | 11 52 | 1 52 | 4 43 | 11 15 | 11 59 | 11 33 | 7 44 | | | n.a. |
| T 24 | 19 59 | 10 2 | 4 56 | 21 27 | 1 53 | 22 12 | 1 7 | 17 46 | 1 3 | 19 0 | 0 22 | 23 34 | 0 9 | 6 53 | 0 44 | 11 52 | 1 52 | 4 44 | 11 15 | 11 59 | 11 34 | 7 43 | | | n.a. |
| F 25 | 19 45 | 13 23 | 5 12 | 20 56 | 1 49 | 21 59 | 1 9 | 17 32 | 1 3 | 19 1 | 0 22 | 23 34 | 0 8 | 6 52 | 0 44 | 11 52 | 1 52 | 4 44 | 11 14 | 12 0 | 11 35 | 7 41 | | | n.a. |
| S 26 | 19 31 | 16 12 | 5 13 | 20 24 | 1 45 | 21 45 | 1 10 | 17 17 | 1 2 | 19 1 | 0 22 | 23 34 | 0 8 | 6 51 | 0 44 | 11 52 | 1 52 | 4 44 | 11 14 | 12 1 | 11 36 | 7 39 | | | n.a. |
| S 27 | 19 17 | 18 15 | 4 57 | 19 49 | 1 41 | 21 30 | 1 11 | 17 3 | 1 2 | 19 1 | 0 22 | 23 34 | 0 8 | 6 49 | 0 44 | 11 52 | 1 51 | 4 44 | 11 14 | 12 2 | 11 37 | 7 37 | | | n.a. |
| M28 | 19 2 | 19 18 | 4 23 | 19 13 | 1 36 | 21 15 | 1 13 | 16 48 | 1 2 | 19 2 | 0 21 | 23 34 | 0 8 | 6 48 | 0 44 | 11 53 | 1 51 | 4 45 | 11 14 | 12 3 | 11 38 | 7 35 | | | n.a. |
| T 29 | 18 47 | 19 10 | 3 32 | 18 35 | 1 30 | 20 59 | 1 14 | 16 33 | 1 1 | 19 2 | 0 21 | 23 34 | 0 8 | 6 47 | 0 44 | 11 53 | 1 51 | 4 45 | 11 13 | 12 4 | 11 39 | 7 34 | | | n.a. |
| W30 | 18 31 | 17 45 | 2 26 | 17 56 | 1 23 | 20 43 | 1 15 | 16 18 | 1 1 | 19 3 | 0 21 | 23 34 | 0 8 | 6 46 | 0 44 | 11 53 | 1 51 | 4 45 | 11 13 | 12 5 | 11 41 | 7 32 | | | n.a. |
| T 31 | 18s16 | 15n 7 | 1s 9 | 17s14 | 1s16 | 20s26 | 1s16 | 16s 3 | 1s 1 | 19n 3 | 0s21 | 23n34 | 0s 8 | 6s45 | 0s43 | 11n53 | 1s51 | 4n45 | 11s13 | 12n 5 | 11n42 | 7s30 | | | n.a. |

Julian Day Number = 1689646.5, Delta T = 03h11m09s
Ecliptic obliquity = 23°42'11, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°15'57, Lahiri = - 5°08'57 Julian Calendar 1 Jan. 87 BCE == Greg. Calendar 30 Dec. 088 BCE

The year -86 astronomical counting style corresponds to year 087 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 87 BCE
# geocentric

## FEBRUARY 87 BCE (-86) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 8 32 7 | 9♒47'56 | 1♍ 0 | 18♒32 | 6♒22 | 20♒24 | 25♉42 | 28°R40 | 14♓46 | 5♉54 | 11♉26 | 28°D36 | 29♌40 | 14♓13 | n.a. | F 1 |
| S 2 | 8 36 4 | 10°48'01 | 15°56 | 20°26 | 7°36 | 21°11 | 25°44 | 28♊37 | 14°49 | 5°55 | 11°26 | 28♌36 | 29°37 | 14°20 | n.a. | S 2 |
| S 3 | 8 40 1 | 11°48'04 | 0♎43 | 22°20 | 8°51 | 21°57 | 25°46 | 28°34 | 14°52 | 5°55 | 11°27 | 28°37 | 29°34 | 14°26 | n.a. | S 3 |
| M 4 | 8 43 57 | 12°48'05 | 15°14 | 24°13 | 10° 6 | 22°44 | 25°48 | 28°31 | 14°55 | 5°56 | 11°27 | 28°39 | 29°31 | 14°33 | n.a. | M 4 |
| T 5 | 8 47 54 | 13°48'05 | 29°26 | 26° 5 | 11°21 | 23°30 | 25°51 | 28°29 | 14°58 | 5°56 | 11°27 | 28°40 | 29°27 | 14°40 | n.a. | T 5 |
| W 6 | 8 51 50 | 14°48'03 | 13♏17 | 27°55 | 12°36 | 24°17 | 25°54 | 28°26 | 15° 1 | 5°57 | 11°27 | 28°R40 | 29°24 | 14°46 | n.a. | W 6 |
| T 7 | 8 55 47 | 15°47'59 | 26°48 | 29°43 | 13°50 | 25° 3 | 25°56 | 28°24 | 15° 5 | 5°58 | 11°27 | 28°40 | 29°21 | 14°53 | n.a. | T 7 |
| F 8 | 8 59 43 | 16°47'54 | 9♐59 | 1♓29 | 15° 5 | 25°50 | 25°59 | 28°21 | 15° 8 | 5°58 | 11°28 | 28°39 | 29°18 | 15° 0 | n.a. | F 8 |
| S 9 | 9 3 40 | 17°47'47 | 22°53 | 3°11 | 16°20 | 26°36 | 26° 3 | 28°19 | 15°11 | 5°59 | 11°28 | 28°38 | 29°15 | 15° 6 | n.a. | S 9 |
| S 10 | 9 7 36 | 18°47'38 | 5♑31 | 4°51 | 17°35 | 27°23 | 26° 6 | 28°16 | 15°14 | 6° 0 | 11°28 | 28°36 | 29°11 | 15°13 | n.a. | S 10 |
| M11 | 9 11 33 | 19°47'27 | 17°56 | 6°26 | 18°49 | 28° 9 | 26°10 | 28°14 | 15°17 | 6° 0 | 11°28 | 28°35 | 29° 8 | 15°20 | n.a. | M11 |
| T 12 | 9 15 29 | 20°47'15 | 0♒10 | 7°57 | 20° 4 | 28°55 | 26°13 | 28°12 | 15°20 | 6° 1 | 11°29 | 28°34 | 29° 5 | 15°26 | n.a. | T 12 |
| W13 | 9 19 26 | 21°47'00 | 12°14 | 9°23 | 21°19 | 29°41 | 26°17 | 28°10 | 15°23 | 6° 2 | 11°29 | 28°33 | 29° 2 | 15°33 | n.a. | W13 |
| T 14 | 9 23 23 | 22°46'43 | 24°11 | 10°44 | 22°33 | 0♓28 | 26°21 | 28° 9 | 15°27 | 6° 3 | 11°29 | 28°D33 | 28°59 | 15°40 | n.a. | T 14 |
| F 15 | 9 27 19 | 23°46'24 | 6♓ 3 | 11°58 | 23°48 | 1°14 | 26°26 | 28° 7 | 15°30 | 6° 4 | 11°30 | 28°33 | 28°56 | 15°46 | n.a. | F 15 |
| S 16 | 9 31 16 | 24°46'03 | 17°51 | 13° 7 | 25° 3 | 2° 0 | 26°30 | 28° 5 | 15°33 | 6° 5 | 11°30 | 28°33 | 28°52 | 15°53 | n.a. | S 16 |
| S 17 | 9 35 12 | 25°45'39 | 29°38 | 14° 8 | 26°17 | 2°46 | 26°35 | 28° 4 | 15°36 | 6° 6 | 11°31 | 28°33 | 28°49 | 16° 0 | n.a. | S 17 |
| M18 | 9 39 9 | 26°45'14 | 11♈28 | 15° 3 | 27°32 | 3°32 | 26°39 | 28° 2 | 15°40 | 6° 7 | 11°31 | 28°34 | 28°46 | 16° 6 | n.a. | M18 |
| T 19 | 9 43 5 | 27°44'46 | 23°22 | 15°50 | 28°47 | 4°18 | 26°44 | 28° 1 | 15°43 | 6° 8 | 11°32 | 28°34 | 28°43 | 16°13 | n.a. | T 19 |
| W20 | 9 47 2 | 28°44'16 | 5♉26 | 16°29 | 0♓ 1 | 5° 4 | 26°50 | 28° 0 | 15°46 | 6° 9 | 11°32 | 28°R34 | 28°40 | 16°20 | n.a. | W20 |
| T 21 | 9 50 58 | 29°43'43 | 17°42 | 17° 1 | 1°16 | 5°50 | 26°55 | 27°59 | 15°50 | 6°10 | 11°33 | 28°34 | 28°37 | 16°26 | n.a. | T 21 |
| F 22 | 9 54 55 | 0♓43'08 | 0♊16 | 17°24 | 2°30 | 6°36 | 27° 0 | 27°58 | 15°53 | 6°11 | 11°33 | 28°D34 | 28°33 | 16°33 | n.a. | F 22 |
| S 23 | 9 58 52 | 1°42'30 | 13°10 | 17°40 | 3°45 | 7°22 | 27° 6 | 27°57 | 15°56 | 6°12 | 11°34 | 28°34 | 28°30 | 16°39 | n.a. | S 23 |
| S 24 | 10 2 48 | 2°41'51 | 26°29 | 17°48 | 4°59 | 8° 7 | 27°12 | 27°56 | 16° 0 | 6°14 | 11°34 | 28°34 | 28°27 | 16°46 | n.a. | S 24 |
| M25 | 10 6 45 | 3°41'08 | 10♋15 | 17°R48 | 6°14 | 8°53 | 27°18 | 27°55 | 16° 3 | 6°15 | 11°35 | 28°35 | 28°24 | 16°53 | n.a. | M25 |
| T 26 | 10 10 41 | 4°40'24 | 24°28 | 17°41 | 7°28 | 9°39 | 27°24 | 27°55 | 16° 6 | 6°16 | 11°36 | 28°35 | 28°21 | 16°59 | n.a. | T 26 |
| W27 | 10 14 38 | 5°39'37 | 9♌ 6 | 17°26 | 8°42 | 10°24 | 27°30 | 27°54 | 16°10 | 6°17 | 11°36 | 28°36 | 28°17 | 17° 6 | n.a. | W27 |
| T 28 | 10 18 34 | 6♓38'48 | 24♌ 3 | 17♓ 5 | 9♓57 | 11♓10 | 27♉37 | 27♊54 | 16♓13 | 6♉19 | 11♉37 | 28°R36 | 28♌14 | 17♓13 | n.a. | T 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 17s59 | 11n27 | 0n13 | 16s31 | 1s 8 | 20s 8 | 1s17 | 15s48 | 1s 0 | 19n 4 | 0s21 | 23n34 | 0s 8 | 6s44 | 0s43 | 11n53 | 1s51 | 4n46 | 11s12 | 12n 5 | 11n43 | 7s28 | | n.a. |
| S 2 | 17 43 | 7 3 | 1 35 | 15 47 | 1 0 | 19 50 | 1 18 | 15 33 | 1 0 | 19 4 | 0 20 | 23 34 | 0 7 | 6 42 | 0 43 | 11 54 | 1 51 | 4 46 | 11 12 | 12 5 | 11 44 | 7 26 | | n.a. |
| S 3 | 17 26 | 2 17 | 2 49 | 15 1 | 0 51 | 19 31 | 1 19 | 15 17 | 1 0 | 19 5 | 0 20 | 23 34 | 0 7 | 6 41 | 0 43 | 11 54 | 1 51 | 4 46 | 11 12 | 12 5 | 11 45 | 7 25 | | n.a. |
| M 4 | 17 9 | 2s31 | 3 51 | 14 14 | 0 41 | 19 11 | 1 20 | 15 1 | 0 59 | 19 6 | 0 20 | 23 34 | 0 7 | 6 40 | 0 43 | 11 54 | 1 51 | 4 47 | 11 12 | 12 4 | 11 46 | 7 23 | | n.a. |
| T 5 | 16 52 | 7 5 | 4 37 | 13 27 | 0 31 | 18 51 | 1 21 | 14 46 | 0 59 | 19 7 | 0 20 | 23 35 | 0 7 | 6 39 | 0 43 | 11 54 | 1 51 | 4 47 | 11 11 | 12 4 | 11 47 | 7 21 | | n.a. |
| W 6 | 16 34 | 11 8 | 5 6 | 12 38 | 0 20 | 18 31 | 1 21 | 14 30 | 0 59 | 19 7 | 0 20 | 23 35 | 0 7 | 6 38 | 0 43 | 11 55 | 1 51 | 4 47 | 11 11 | 12 4 | 11 48 | 7 19 | | n.a. |
| T 7 | 16 17 | 14 31 | 5 17 | 11 49 | 0 8 | 18 10 | 1 22 | 14 14 | 0 58 | 19 8 | 0 19 | 23 35 | 0 7 | 6 36 | 0 43 | 11 55 | 1 51 | 4 48 | 11 11 | 12 4 | 11 50 | 7 17 | | n.a. |
| F 8 | 15 58 | 17 4 | 5 11 | 11 0 | 0n 4 | 17 48 | 1 23 | 13 57 | 0 58 | 19 9 | 0 19 | 23 35 | 0 7 | 6 35 | 0 43 | 11 55 | 1 51 | 4 48 | 11 11 | 12 4 | 11 51 | 7 16 | | n.a. |
| S 9 | 15 40 | 18 42 | 4 49 | 10 11 | 0 16 | 17 26 | 1 23 | 13 41 | 0 58 | 19 10 | 0 19 | 23 35 | 0 7 | 6 34 | 0 43 | 11 55 | 1 51 | 4 48 | 11 10 | 12 5 | 11 52 | 7 14 | | n.a. |
| S 10 | 15 21 | 19 22 | 4 14 | 9 23 | 0 29 | 17 4 | 1 24 | 13 25 | 0 57 | 19 11 | 0 19 | 23 35 | 0 7 | 6 33 | 0 43 | 11 56 | 1 51 | 4 49 | 11 10 | 12 5 | 11 53 | 7 12 | | n.a. |
| M11 | 15 2 | 19 4 | 3 27 | 8 35 | 0 43 | 16 41 | 1 24 | 13 8 | 0 57 | 19 12 | 0 19 | 23 35 | 0 6 | 6 32 | 0 43 | 11 56 | 1 50 | 4 49 | 11 10 | 12 6 | 11 54 | 7 10 | | n.a. |
| T 12 | 14 43 | 17 53 | 2 31 | 7 49 | 0 56 | 16 17 | 1 24 | 12 52 | 0 57 | 19 13 | 0 18 | 23 35 | 0 6 | 6 30 | 0 43 | 11 56 | 1 50 | 4 49 | 11 9 | 12 6 | 11 55 | 7 8 | | n.a. |
| W13 | 14 24 | 15 53 | 1 29 | 7 3 | 1 10 | 15 53 | 1 25 | 12 35 | 0 56 | 19 14 | 0 18 | 23 35 | 0 6 | 6 29 | 0 43 | 11 57 | 1 50 | 4 50 | 11 9 | 12 6 | 11 56 | 7 6 | | n.a. |
| T 14 | 14 4 | 13 14 | 0 24 | 6 20 | 1 24 | 15 29 | 1 25 | 12 18 | 0 56 | 19 16 | 0 18 | 23 35 | 0 6 | 6 28 | 0 43 | 11 57 | 1 50 | 4 50 | 11 9 | 12 6 | 11 57 | 7 5 | | n.a. |
| F 15 | 13 45 | 10 2 | 0s42 | 5 39 | 1 37 | 15 4 | 1 25 | 12 1 | 0 55 | 19 17 | 0 18 | 23 35 | 0 6 | 6 26 | 0 43 | 11 58 | 1 50 | 4 50 | 11 9 | 12 6 | 11 59 | 7 3 | | n.a. |
| S 16 | 13 25 | 6 28 | 1 45 | 5 0 | 1 51 | 14 39 | 1 25 | 11 44 | 0 55 | 19 18 | 0 18 | 23 36 | 0 6 | 6 25 | 0 43 | 11 58 | 1 50 | 4 51 | 11 8 | 12 6 | 12 0 | 7 1 | | n.a. |
| S 17 | 13 4 | 2 39 | 2 45 | 4 24 | 2 4 | 14 14 | 1 25 | 11 27 | 0 55 | 19 19 | 0 18 | 23 36 | 0 6 | 6 24 | 0 43 | 11 58 | 1 50 | 4 51 | 11 8 | 12 6 | 12 1 | 6 59 | | n.a. |
| M18 | 12 44 | 1n16 | 3 37 | 3 51 | 2 17 | 13 48 | 1 25 | 11 10 | 0 54 | 19 21 | 0 17 | 23 36 | 0 6 | 6 23 | 0 43 | 11 59 | 1 50 | 4 52 | 11 8 | 12 6 | 12 2 | 6 57 | | n.a. |
| T 19 | 12 23 | 5 9 | 4 20 | 3 21 | 2 30 | 13 22 | 1 25 | 10 52 | 0 54 | 19 22 | 0 17 | 23 36 | 0 5 | 6 21 | 0 43 | 11 59 | 1 50 | 4 52 | 11 8 | 12 6 | 12 3 | 6 55 | | n.a. |
| W20 | 12 3 | 8 53 | 4 53 | 2 55 | 2 41 | 12 55 | 1 25 | 10 35 | 0 53 | 19 23 | 0 17 | 23 36 | 0 5 | 6 20 | 0 43 | 11 59 | 1 50 | 4 52 | 11 7 | 12 6 | 12 4 | 6 54 | | n.a. |
| T 21 | 11 42 | 12 18 | 5 12 | 2 33 | 2 52 | 12 28 | 1 25 | 10 18 | 0 53 | 19 25 | 0 17 | 23 36 | 0 5 | 6 19 | 0 43 | 12 0 | 1 50 | 4 53 | 11 7 | 12 6 | 12 5 | 6 52 | | n.a. |
| F 22 | 11 20 | 15 15 | 5 18 | 2 14 | 3 2 | 12 1 | 1 25 | 10 0 | 0 53 | 19 26 | 0 17 | 23 36 | 0 5 | 6 17 | 0 43 | 12 0 | 1 50 | 4 53 | 11 7 | 12 6 | 12 6 | 6 50 | | n.a. |
| S 23 | 10 59 | 17 32 | 5 8 | 2 0 | 3 11 | 11 33 | 1 24 | 9 42 | 0 52 | 19 28 | 0 16 | 23 36 | 0 5 | 6 16 | 0 43 | 12 1 | 1 50 | 4 54 | 11 6 | 12 6 | 12 7 | 6 48 | | n.a. |
| S 24 | 10 38 | 18 58 | 4 41 | 1 50 | 3 19 | 11 5 | 1 24 | 9 25 | 0 52 | 19 29 | 0 16 | 23 36 | 0 5 | 6 15 | 0 43 | 12 1 | 1 50 | 4 54 | 11 6 | 12 6 | 12 9 | 6 46 | | n.a. |
| M25 | 10 16 | 19 21 | 3 58 | 1 44 | 3 25 | 10 37 | 1 24 | 9 7 | 0 51 | 19 31 | 0 16 | 23 36 | 0 5 | 6 13 | 0 43 | 12 2 | 1 50 | 4 54 | 11 6 | 12 6 | 12 10 | 6 44 | | n.a. |
| T 26 | 9 54 | 18 32 | 2 59 | 1 42 | 3 30 | 10 9 | 1 23 | 8 49 | 0 51 | 19 32 | 0 16 | 23 37 | 0 5 | 6 12 | 0 43 | 12 2 | 1 50 | 4 55 | 11 6 | 12 6 | 12 11 | 6 42 | | n.a. |
| W27 | 9 32 | 16 28 | 1 46 | 1 44 | 3 34 | 9 40 | 1 22 | 8 31 | 0 50 | 19 34 | 0 16 | 23 37 | 0 5 | 6 11 | 0 43 | 12 3 | 1 49 | 4 55 | 11 5 | 12 6 | 12 12 | 6 41 | | n.a. |
| T 28 | 9s10 | 13n15 | 0s25 | 1s51 | 3n36 | 9s11 | 1s22 | 8s13 | 0s50 | 19n35 | 0s16 | 23n37 | 0s 4 | 6s 9 | 0s43 | 12n 3 | 1s49 | 4n56 | 11s 5 | 12n 5 | 12n13 | 6s39 | | n.a. |

Julian Day Number = 1689677.5, Delta T = 03h11m09s
Ecliptic obliquity = 23°42'12, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°15'53, Lahiri = - 5°08'53 Julian Calendar 1 Feb. 87 BCE == Greg. Calendar 30 Jan. 087 BCE

The year -86 astronomical counting style corresponds to year 087 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 87 BCE
# geocentric

## MARCH 87 BCE (-86) JC 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 10 22 31 | 7♓37'56 | 9♍13 | 16°R38 | 11♓11 | 11♓56 | 27♉43 | 27°R54 | 16♓16 | 6♉20 | 11♉37 | 28°R36 | 28♌11 | 17♓19 | n.a. | F 1 |
| S 2 | 10 26 27 | 8°37'02 | 24°26 | 16♓ 5 | 12°26 | 12°41 | 27°50 | 27°D54 | 16°20 | 6°21 | 11°38 | 28♌35 | 28° 8 | 17°26 | n.a. | S 2 |
| S 3 | 10 30 24 | 9°36'06 | 9♎32 | 15°27 | 13°40 | 13°26 | 27°57 | 27♊54 | 16°23 | 6°23 | 11°39 | 28°34 | 28° 5 | 17°33 | n.a. | S 3 |
| M 4 | 10 34 20 | 10°35'09 | 24°23 | 14°45 | 14°54 | 14°12 | 28° 4 | 27°54 | 16°27 | 6°24 | 11°40 | 28°33 | 28° 2 | 17°39 | n.a. | M 4 |
| T 5 | 10 38 17 | 11°34'09 | 8♏52 | 14° 0 | 16° 9 | 14°57 | 28°11 | 27°54 | 16°30 | 6°25 | 11°40 | 28°31 | 27°58 | 17°46 | n.a. | T 5 |
| W 6 | 10 42 14 | 12°33'07 | 22°56 | 13°13 | 17°23 | 15°43 | 28°18 | 27°54 | 16°34 | 6°27 | 11°41 | 28°30 | 27°55 | 17°53 | n.a. | W 6 |
| T 7 | 10 46 10 | 13°32'04 | 6♐33 | 12°25 | 18°37 | 16°28 | 28°26 | 27°55 | 16°37 | 6°28 | 11°42 | 28°29 | 27°52 | 17°59 | n.a. | T 7 |
| F 8 | 10 50 7 | 14°30'59 | 19°44 | 11°37 | 19°52 | 17°13 | 28°33 | 27°55 | 16°40 | 6°30 | 11°43 | 28°D29 | 27°49 | 18° 6 | n.a. | F 8 |
| S 9 | 10 54 3 | 15°29'52 | 2♑32 | 10°50 | 21° 6 | 17°58 | 28°41 | 27°56 | 16°44 | 6°31 | 11°44 | 28°30 | 27°46 | 18°13 | n.a. | S 9 |
| S 10 | 10 58 0 | 16°28'44 | 15° 2 | 10° 4 | 22°20 | 18°43 | 28°49 | 27°57 | 16°47 | 6°33 | 11°44 | 28°31 | 27°43 | 18°19 | n.a. | S 10 |
| M11 | 11 1 56 | 17°27'33 | 27°16 | 9°20 | 23°34 | 19°29 | 28°57 | 27°58 | 16°51 | 6°35 | 11°45 | 28°33 | 27°39 | 18°26 | n.a. | M11 |
| T 12 | 11 5 53 | 18°26'21 | 9♒18 | 8°39 | 24°49 | 20°14 | 29° 5 | 27°59 | 16°54 | 6°36 | 11°46 | 28°34 | 27°36 | 18°33 | n.a. | T 12 |
| W13 | 11 9 49 | 19°25'06 | 21°13 | 8° 2 | 26° 3 | 20°59 | 29°13 | 28° 0 | 16°58 | 6°38 | 11°47 | 28°35 | 27°33 | 18°39 | n.a. | W13 |
| T 14 | 11 13 46 | 20°23'50 | 3♓ 2 | 7°30 | 27°17 | 21°44 | 29°21 | 28° 1 | 17° 1 | 6°40 | 11°48 | 28°R35 | 27°30 | 18°46 | n.a. | T 14 |
| F 15 | 11 17 43 | 21°22'31 | 14°50 | 7° 1 | 28°31 | 22°28 | 29°30 | 28° 2 | 17° 4 | 6°41 | 11°49 | 28°34 | 27°27 | 18°53 | n.a. | F 15 |
| S 16 | 11 21 39 | 22°21'11 | 26°38 | 6°38 | 29°45 | 23°13 | 29°38 | 28° 4 | 17° 8 | 6°43 | 11°50 | 28°32 | 27°23 | 18°59 | n.a. | S 16 |
| S 17 | 11 25 36 | 23°19'48 | 8♈28 | 6°20 | 0♈59 | 23°58 | 29°47 | 28° 5 | 17°11 | 6°45 | 11°51 | 28°29 | 27°20 | 19° 6 | n.a. | S 17 |
| M18 | 11 29 32 | 24°18'24 | 20°22 | 6° 7 | 2°13 | 24°43 | 29°56 | 28° 7 | 17°15 | 6°46 | 11°52 | 28°25 | 27°17 | 19°13 | n.a. | M18 |
| T 19 | 11 33 29 | 25°16'57 | 2♉23 | 5°59 | 3°27 | 25°28 | 0♊ 5 | 28° 9 | 17°18 | 6°48 | 11°53 | 28°20 | 27°14 | 19°19 | n.a. | T 19 |
| W20 | 11 37 25 | 26°15'28 | 14°32 | 5°D56 | 4°42 | 26°12 | 0°14 | 28°10 | 17°21 | 6°50 | 11°54 | 28°15 | 27°11 | 19°26 | n.a. | W20 |
| T 21 | 11 41 22 | 27°13'57 | 26°53 | 5°58 | 5°56 | 26°57 | 0°23 | 28°12 | 17°25 | 6°52 | 11°55 | 28°12 | 27° 8 | 19°32 | n.a. | T 21 |
| F 22 | 11 45 18 | 28°12'24 | 9♊28 | 6° 6 | 7°10 | 27°41 | 0°32 | 28°14 | 17°28 | 6°54 | 11°56 | 28° 9 | 27° 4 | 19°39 | n.a. | F 22 |
| S 23 | 11 49 15 | 29°10'49 | 22°20 | 6°18 | 8°24 | 28°26 | 0°42 | 28°17 | 17°32 | 6°55 | 11°57 | 28° 7 | 27° 1 | 19°46 | n.a. | S 23 |
| S 24 | 11 53 11 | 0♈ 9'11 | 5♋33 | 6°35 | 9°38 | 29°10 | 0°51 | 28°19 | 17°35 | 6°57 | 11°58 | 28°D 7 | 26°58 | 19°52 | n.a. | S 24 |
| M25 | 11 57 8 | 1° 7'32 | 19° 9 | 6°57 | 10°51 | 29°55 | 1° 1 | 28°21 | 17°38 | 6°59 | 11°59 | 28° 8 | 26°55 | 19°59 | n.a. | M25 |
| T 26 | 12 1 5 | 2° 5'50 | 3♌ 9 | 7°23 | 12° 5 | 0♈39 | 1°11 | 28°24 | 17°42 | 7° 1 | 12° 0 | 28°10 | 26°52 | 20° 6 | n.a. | T 26 |
| W27 | 12 5 1 | 3° 4'06 | 17°33 | 7°53 | 13°19 | 1°23 | 1°21 | 28°26 | 17°45 | 7° 3 | 12° 1 | 28°11 | 26°48 | 20°12 | n.a. | W27 |
| T 28 | 12 8 58 | 4° 2'19 | 2♍20 | 8°28 | 14°33 | 2° 8 | 1°31 | 28°29 | 17°48 | 7° 5 | 12° 2 | 28°R11 | 26°45 | 20°19 | n.a. | T 28 |
| F 29 | 12 12 54 | 5° 0'31 | 17°23 | 9° 6 | 15°47 | 2°52 | 1°41 | 28°32 | 17°52 | 7° 7 | 12° 3 | 28°10 | 26°42 | 20°26 | n.a. | F 29 |
| S 30 | 12 16 51 | 5°58'40 | 2♎35 | 9°48 | 17° 1 | 3°36 | 1°51 | 28°35 | 17°55 | 7° 9 | 12° 4 | 28° 7 | 26°39 | 20°32 | n.a. | S 30 |
| S 31 | 12 20 47 | 6♈56'48 | 17♎47 | 10♓34 | 18♈15 | 4♈20 | 2♊ 1 | 28♊38 | 17♓58 | 7♉11 | 12♉ 6 | 28♌ 2 | 26♌36 | 20♓39 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 8s48 | 9n 6 | 0n59 | 2s 1 | 3n36 | 8s42 | 1s21 | 7s55 | 0s49 | 19n37 | 0s15 | 23n37 | 0s 4 | 6s 8 | 0s43 | 12n 4 | 1s49 | 4n56 | 11s 5 | 12n 5 | 12n14 | 6s37 | | n.a. |
| S 2 | 8 26 | 4 21 | 2 19 | 2 15 | 3 35 | 8 12 | 1 20 | 7 37 | 0 49 | 19 39 | 0 15 | 23 37 | 0 4 | 6 7 | 0 43 | 12 4 | 1 49 | 4 57 | 11 5 | 12 6 | 12 15 | 6 35 | | n.a. |
| S 3 | 8 3 | 0s38 | 3 28 | 2 33 | 3 32 | 7 43 | 1 20 | 7 19 | 0 48 | 19 40 | 0 15 | 23 37 | 0 4 | 6 5 | 0 43 | 12 5 | 1 49 | 4 57 | 11 4 | 12 6 | 12 16 | 6 33 | | n.a. |
| M 4 | 7 41 | 5 29 | 4 23 | 2 54 | 3 27 | 7 13 | 1 19 | 7 1 | 0 48 | 19 42 | 0 15 | 23 37 | 0 4 | 6 4 | 0 43 | 12 5 | 1 49 | 4 58 | 11 4 | 12 7 | 12 17 | 6 31 | | n.a. |
| T 5 | 7 18 | 9 54 | 4 59 | 3 17 | 3 20 | 6 43 | 1 18 | 6 43 | 0 48 | 19 44 | 0 15 | 23 37 | 0 4 | 6 3 | 0 43 | 12 6 | 1 49 | 4 58 | 11 4 | 12 7 | 12 19 | 6 29 | | n.a. |
| W 6 | 6 55 | 13 37 | 5 16 | 3 43 | 3 12 | 6 13 | 1 17 | 6 25 | 0 47 | 19 46 | 0 15 | 23 37 | 0 4 | 6 1 | 0 43 | 12 6 | 1 49 | 4 58 | 11 4 | 12 7 | 12 20 | 6 28 | | n.a. |
| T 7 | 6 33 | 16 29 | 5 14 | 4 10 | 3 2 | 5 42 | 1 16 | 6 7 | 0 47 | 19 48 | 0 14 | 23 38 | 0 4 | 6 0 | 0 43 | 12 7 | 1 49 | 4 59 | 11 3 | 12 8 | 12 21 | 6 26 | | n.a. |
| F 8 | 6 10 | 18 23 | 4 56 | 4 39 | 2 51 | 5 12 | 1 15 | 5 48 | 0 46 | 19 49 | 0 14 | 23 38 | 0 4 | 5 59 | 0 43 | 12 7 | 1 49 | 4 59 | 11 3 | 12 8 | 12 22 | 6 24 | | n.a. |
| S 9 | 5 47 | 19 18 | 4 23 | 5 9 | 2 39 | 4 41 | 1 13 | 5 30 | 0 46 | 19 51 | 0 14 | 23 38 | 0 3 | 5 57 | 0 43 | 12 8 | 1 49 | 5 0 | 11 3 | 12 8 | 12 23 | 6 22 | | n.a. |
| S 10 | 5 24 | 19 14 | 3 38 | 5 39 | 2 25 | 4 11 | 1 12 | 5 12 | 0 45 | 19 53 | 0 14 | 23 38 | 0 3 | 5 56 | 0 43 | 12 8 | 1 49 | 5 0 | 11 3 | 12 7 | 12 24 | 6 20 | | n.a. |
| M11 | 5 0 | 18 15 | 2 45 | 6 8 | 2 11 | 3 40 | 1 11 | 4 54 | 0 45 | 19 55 | 0 14 | 23 38 | 0 3 | 5 55 | 0 43 | 12 9 | 1 49 | 5 1 | 11 3 | 12 7 | 12 25 | 6 18 | | n.a. |
| T 12 | 4 37 | 16 27 | 1 45 | 6 37 | 1 56 | 3 9 | 1 10 | 4 35 | 0 44 | 19 57 | 0 14 | 23 38 | 0 3 | 5 53 | 0 43 | 12 10 | 1 49 | 5 1 | 11 2 | 12 6 | 12 26 | 6 16 | | n.a. |
| W13 | 4 14 | 13 57 | 0 41 | 7 6 | 1 40 | 2 38 | 1 8 | 4 17 | 0 44 | 19 59 | 0 14 | 23 38 | 0 3 | 5 52 | 0 43 | 12 10 | 1 49 | 5 2 | 11 2 | 12 6 | 12 27 | 6 14 | | n.a. |
| T 14 | 3 51 | 10 53 | 0s25 | 7 33 | 1 25 | 2 7 | 1 7 | 3 59 | 0 43 | 20 1 | 0 13 | 23 38 | 0 3 | 5 50 | 0 43 | 12 11 | 1 49 | 5 2 | 11 2 | 12 6 | 12 29 | 6 13 | | n.a. |
| F 15 | 3 27 | 7 24 | 1 28 | 7 58 | 1 9 | 1 36 | 1 5 | 3 40 | 0 43 | 20 3 | 0 13 | 23 39 | 0 3 | 5 49 | 0 43 | 12 11 | 1 49 | 5 3 | 11 2 | 12 6 | 12 30 | 6 11 | | n.a. |
| S 16 | 3 4 | 3 37 | 2 28 | 8 22 | 0 53 | 1 4 | 1 4 | 3 22 | 0 42 | 20 5 | 0 13 | 23 39 | 0 3 | 5 48 | 0 43 | 12 12 | 1 49 | 5 3 | 11 1 | 12 7 | 12 31 | 6 9 | | n.a. |
| S 17 | 2 41 | 0n18 | 3 22 | 8 43 | 0 37 | 0 33 | 1 2 | 3 3 | 0 42 | 20 7 | 0 13 | 23 39 | 0 3 | 5 46 | 0 43 | 12 13 | 1 48 | 5 4 | 11 1 | 12 8 | 12 32 | 6 7 | | n.a. |
| M18 | 2 17 | 4 14 | 4 7 | 9 3 | 0 21 | 0 2 | 1 1 | 2 45 | 0 41 | 20 9 | 0 13 | 23 39 | 0 3 | 5 45 | 0 43 | 12 13 | 1 48 | 5 4 | 11 1 | 12 9 | 12 33 | 6 5 | | n.a. |
| T 19 | 1 54 | 8 1 | 4 42 | 9 20 | 0 6 | 0n29 | 0 59 | 2 27 | 0 41 | 20 11 | 0 13 | 23 39 | 0 2 | 5 44 | 0 43 | 12 14 | 1 48 | 5 5 | 11 1 | 12 11 | 12 34 | 6 3 | | n.a. |
| W20 | 1 30 | 11 32 | 5 5 | 9 35 | 0s 9 | 1 1 | 0 57 | 2 8 | 0 40 | 20 13 | 0 13 | 23 39 | 0 2 | 5 42 | 0 43 | 12 14 | 1 48 | 5 5 | 11 1 | 12 13 | 12 35 | 6 1 | | n.a. |
| T 21 | 1 7 | 14 36 | 5 13 | 9 47 | 0 23 | 1 32 | 0 55 | 1 50 | 0 39 | 20 15 | 0 12 | 23 39 | 0 2 | 5 41 | 0 43 | 12 15 | 1 48 | 5 6 | 11 0 | 12 14 | 12 36 | 5 59 | | n.a. |
| F 22 | 0 43 | 17 3 | 5 7 | 9 57 | 0 37 | 2 3 | 0 53 | 1 31 | 0 39 | 20 17 | 0 12 | 23 39 | 0 2 | 5 40 | 0 43 | 12 16 | 1 48 | 5 6 | 11 0 | 12 15 | 12 37 | 5 57 | | n.a. |
| S 23 | 0 20 | 18 43 | 4 46 | 10 5 | 0 50 | 2 34 | 0 52 | 1 13 | 0 38 | 20 20 | 0 12 | 23 40 | 0 2 | 5 38 | 0 43 | 12 16 | 1 48 | 5 7 | 11 0 | 12 15 | 12 38 | 5 56 | | n.a. |
| S 24 | 0n 4 | 19 26 | 4 9 | 10 10 | 1 3 | 3 6 | 0 50 | 0 55 | 0 38 | 20 22 | 0 12 | 23 40 | 0 2 | 5 37 | 0 43 | 12 17 | 1 48 | 5 7 | 11 0 | 12 15 | 12 40 | 5 54 | | n.a. |
| M25 | 0 27 | 19 4 | 3 18 | 10 13 | 1 15 | 3 37 | 0 48 | 0 36 | 0 37 | 20 24 | 0 12 | 23 40 | 0 2 | 5 36 | 0 43 | 12 18 | 1 48 | 5 8 | 11 0 | 12 15 | 12 41 | 5 52 | | n.a. |
| T 26 | 0 51 | 17 31 | 2 13 | 10 13 | 1 26 | 4 8 | 0 46 | 0 18 | 0 37 | 20 26 | 0 12 | 23 40 | 0 2 | 5 34 | 0 43 | 12 18 | 1 48 | 5 8 | 10 59 | 12 15 | 12 42 | 5 50 | | n.a. |
| W27 | 1 14 | 14 49 | 0 58 | 10 12 | 1 37 | 4 39 | 0 44 | 0n 0 | 0 36 | 20 28 | 0 12 | 23 40 | 0 2 | 5 33 | 0 43 | 12 19 | 1 48 | 5 9 | 10 59 | 12 14 | 12 43 | 5 48 | | n.a. |
| T 28 | 1 37 | 11 7 | 0n23 | 10 8 | 1 46 | 5 10 | 0 42 | 0 19 | 0 36 | 20 30 | 0 11 | 23 40 | 0 1 | 5 32 | 0 43 | 12 20 | 1 48 | 5 9 | 10 59 | 12 14 | 12 44 | 5 46 | | n.a. |
| F 29 | 2 1 | 6 37 | 1 43 | 10 2 | 1 56 | 5 40 | 0 40 | 0 37 | 0 35 | 20 32 | 0 11 | 23 40 | 0 1 | 5 31 | 0 43 | 12 20 | 1 48 | 5 10 | 10 59 | 12 15 | 12 45 | 5 44 | | n.a. |
| S 30 | 2 24 | 1 39 | 2 57 | 9 53 | 2 4 | 6 11 | 0 37 | 0 55 | 0 35 | 20 35 | 0 11 | 23 40 | 0 1 | 5 29 | 0 43 | 12 21 | 1 48 | 5 10 | 10 59 | 12 16 | 12 46 | 5 42 | | n.a. |
| S 31 | 2n47 | 3s24 | 3n57 | 9s43 | 2s12 | 6n41 | 0s35 | 1n13 | 0s34 | 20n37 | 0s11 | 23n41 | 0s 1 | 5s28 | 0s43 | 12n22 | 1s48 | 5n11 | 10s58 | 12n17 | 12n47 | 5s40 | | n.a. |

Julian Day Number = 1689705.5, Delta T = 03h11m08s
Ecliptic obliquity = 23°42'13, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°15'49, Lahiri = - 5°08'49 Julian Calendar 1 March 87 BCE == Greg. Calendar 27 Feb. 087 BCE

The year -86 astronomical counting style corresponds to year 087 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 87 BCE
# geocentric

## APRIL 87 BCE (-86) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 12 24 44 | 7♈54'54 | 2♏47 | 11♓23 | 19♈28 | 5♈ 4 | 2♊11 | 28♊41 | 18♓ 2 | 7♉13 | 12♉ 7 | 27°R57 | 26♌33 | 20♓46 | n.a. | M 1 |
| T 2 | 12 28 40 | 8°52'59 | 17°27 | 12°16 | 20°42 | 5°48 | 2°22 | 28°44 | 18° 5 | 7°15 | 12° 8 | 27♌51 | 26°29 | 20°52 | n.a. | T 2 |
| W 3 | 12 32 37 | 9°51'01 | 1♐42 | 13°12 | 21°56 | 6°32 | 2°32 | 28°47 | 18° 8 | 7°17 | 12° 9 | 27°45 | 26°26 | 20°59 | n.a. | W 3 |
| T 4 | 12 36 34 | 10°49'03 | 15°28 | 14°10 | 23°10 | 7°16 | 2°43 | 28°50 | 18°11 | 7°19 | 12°10 | 27°41 | 26°23 | 21° 6 | n.a. | T 4 |
| F 5 | 12 40 30 | 11°47'03 | 28°45 | 15°12 | 24°23 | 7°59 | 2°54 | 28°54 | 18°14 | 7°21 | 12°11 | 27°38 | 26°20 | 21°12 | n.a. | F 5 |
| S 6 | 12 44 27 | 12°45'01 | 11♑35 | 16°17 | 25°37 | 8°43 | 3° 4 | 28°57 | 18°18 | 7°23 | 12°13 | 27°D37 | 26°17 | 21°19 | n.a. | S 6 |
| S 7 | 12 48 23 | 13°42'59 | 24° 4 | 17°24 | 26°51 | 9°27 | 3°15 | 29° 1 | 18°21 | 7°25 | 12°14 | 27°38 | 26°14 | 21°26 | n.a. | S 7 |
| M 8 | 12 52 20 | 14°40'54 | 6♒15 | 18°34 | 28° 4 | 10°11 | 3°26 | 29° 5 | 18°24 | 7°27 | 12°15 | 27°39 | 26°10 | 21°32 | n.a. | M 8 |
| T 9 | 12 56 16 | 15°38'49 | 18°13 | 19°47 | 29°18 | 10°54 | 3°37 | 29° 8 | 18°27 | 7°29 | 12°16 | 27°40 | 26° 7 | 21°39 | n.a. | T 9 |
| W10 | 13 0 13 | 16°36'42 | 0♓ 3 | 21° 2 | 0♉32 | 11°38 | 3°48 | 29°12 | 18°30 | 7°31 | 12°18 | 27°R41 | 26° 4 | 21°46 | n.a. | W10 |
| T 11 | 13 4 9 | 17°34'33 | 11°50 | 22°19 | 1°45 | 12°21 | 3°59 | 29°16 | 18°33 | 7°34 | 12°19 | 27°39 | 26° 1 | 21°52 | n.a. | T 11 |
| F 12 | 13 8 6 | 18°32'23 | 23°37 | 23°39 | 2°59 | 13° 5 | 4°11 | 29°20 | 18°36 | 7°36 | 12°20 | 27°36 | 25°58 | 21°59 | n.a. | F 12 |
| S 13 | 13 12 2 | 19°30'12 | 5♈27 | 25° 1 | 4°13 | 13°48 | 4°22 | 29°24 | 18°40 | 7°38 | 12°21 | 27°30 | 25°54 | 22° 6 | n.a. | S 13 |
| S 14 | 13 15 59 | 20°27'59 | 17°22 | 26°26 | 5°26 | 14°32 | 4°33 | 29°29 | 18°43 | 7°40 | 12°23 | 27°23 | 25°51 | 22°12 | n.a. | S 14 |
| M15 | 13 19 56 | 21°25'44 | 29°25 | 27°53 | 6°40 | 15°15 | 4°45 | 29°33 | 18°46 | 7°42 | 12°24 | 27°13 | 25°48 | 22°19 | n.a. | M15 |
| T 16 | 13 23 52 | 22°23'28 | 11♉37 | 29°22 | 7°53 | 15°58 | 4°57 | 29°37 | 18°49 | 7°44 | 12°25 | 27° 3 | 25°45 | 22°26 | n.a. | T 16 |
| W17 | 13 27 49 | 23°21'11 | 23°58 | 0♈53 | 9° 7 | 16°41 | 5° 8 | 29°42 | 18°52 | 7°46 | 12°27 | 26°53 | 25°42 | 22°32 | n.a. | W17 |
| T 18 | 13 31 45 | 24°18'52 | 6♊31 | 2°26 | 10°20 | 17°24 | 5°20 | 29°46 | 18°55 | 7°49 | 12°28 | 26°44 | 25°39 | 22°39 | n.a. | T 18 |
| F 19 | 13 35 42 | 25°16'32 | 19°15 | 4° 2 | 11°34 | 18° 8 | 5°32 | 29°51 | 18°57 | 7°51 | 12°29 | 26°37 | 25°35 | 22°46 | n.a. | F 19 |
| S 20 | 13 39 38 | 26°14'10 | 2♋13 | 5°40 | 12°47 | 18°51 | 5°43 | 29°56 | 19° 0 | 7°53 | 12°31 | 26°32 | 25°32 | 22°52 | n.a. | S 20 |
| S 21 | 13 43 35 | 27°11'46 | 15°27 | 7°20 | 14° 0 | 19°34 | 5°55 | 0♋ 1 | 19° 3 | 7°55 | 12°32 | 26°29 | 25°29 | 22°59 | n.a. | S 21 |
| M22 | 13 47 31 | 28° 9'21 | 28°58 | 9° 2 | 15°14 | 20°16 | 6° 7 | 0° 6 | 19° 6 | 7°58 | 12°33 | 26°D29 | 25°26 | 23° 6 | n.a. | M22 |
| T 23 | 13 51 28 | 29° 6'54 | 12♌48 | 10°46 | 16°27 | 20°59 | 6°19 | 0°11 | 19° 9 | 8° 0 | 12°35 | 26°29 | 25°23 | 23°12 | n.a. | T 23 |
| W24 | 13 55 25 | 0♉ 4'26 | 26°58 | 12°32 | 17°40 | 21°42 | 6°31 | 0°16 | 19°12 | 8° 2 | 12°36 | 26°R30 | 25°19 | 23°19 | n.a. | W24 |
| T 25 | 13 59 21 | 1° 1'56 | 11♍28 | 14°21 | 18°54 | 22°25 | 6°44 | 0°21 | 19°14 | 8° 4 | 12°37 | 26°29 | 25°16 | 23°26 | n.a. | T 25 |
| F 26 | 14 3 18 | 1°59'24 | 26°14 | 16°12 | 20° 7 | 23° 8 | 6°56 | 0°26 | 19°17 | 8° 6 | 12°39 | 26°26 | 25°13 | 23°32 | n.a. | F 26 |
| S 27 | 14 7 14 | 2°56'51 | 11♎10 | 18° 5 | 21°20 | 23°50 | 7° 8 | 0°31 | 19°20 | 8° 9 | 12°40 | 26°20 | 25°10 | 23°39 | n.a. | S 27 |
| S 28 | 14 11 11 | 3°54'17 | 26° 9 | 20° 0 | 22°33 | 24°33 | 7°20 | 0°36 | 19°23 | 8°11 | 12°41 | 26°13 | 25° 7 | 23°46 | n.a. | S 28 |
| M29 | 14 15 7 | 4°51'42 | 11♏ 3 | 21°57 | 23°47 | 25°15 | 7°33 | 0°42 | 19°25 | 8°13 | 12°43 | 26° 3 | 25° 4 | 23°52 | n.a. | M29 |
| T 30 | 14 19 4 | 5♉49'06 | 25♏41 | 23♈56 | 25♉ 0 | 25♈58 | 7♊45 | 0♋47 | 19♓28 | 8♉15 | 12♉44 | 25♌53 | 25♌ 0 | 23♓59 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 3n10 | 8s10 | 4n41 | 9s30 | 2s19 | 7n12 | 0s33 | 1n31 | 0s33 | 20n39 | 0s11 | 23n41 | 0s 1 | 5s27 | 0s43 | 12n22 | 1s48 | 5n11 | 10s58 | 12n19 | 12n48 | 5s38 | | n.a. |
| T 2 | 3 34 | 12 21 | 5 5 | 9 16 | 2 25 | 7 42 | 0 31 | 1 49 | 0 33 | 20 41 | 0 11 | 23 41 | 0 1 | 5 25 | 0 43 | 12 23 | 1 48 | 5 12 | 10 58 | 12 21 | 12 49 | 5 37 | | n.a. |
| W 3 | 3 57 | 15 40 | 5 10 | 8 59 | 2 30 | 8 12 | 0 28 | 2 8 | 0 32 | 20 44 | 0 11 | 23 41 | 0 1 | 5 24 | 0 43 | 12 24 | 1 48 | 5 12 | 10 58 | 12 23 | 12 50 | 5 35 | | n.a. |
| T 4 | 4 20 | 18 0 | 4 56 | 8 41 | 2 35 | 8 42 | 0 26 | 2 26 | 0 32 | 20 46 | 0 10 | 23 41 | 0 1 | 5 23 | 0 43 | 12 24 | 1 48 | 5 13 | 10 58 | 12 25 | 12 52 | 5 33 | | n.a. |
| F 5 | 4 43 | 19 16 | 4 26 | 8 20 | 2 40 | 9 11 | 0 24 | 2 44 | 0 31 | 20 48 | 0 10 | 23 41 | 0 1 | 5 22 | 0 43 | 12 25 | 1 48 | 5 13 | 10 58 | 12 26 | 12 53 | 5 31 | | n.a. |
| S 6 | 5 5 | 19 29 | 3 44 | 7 58 | 2 43 | 9 41 | 0 22 | 3 2 | 0 31 | 20 50 | 0 10 | 23 41 | 0 1 | 5 20 | 0 43 | 12 26 | 1 48 | 5 14 | 10 57 | 12 26 | 12 54 | 5 29 | | n.a. |
| S 7 | 5 28 | 18 43 | 2 52 | 7 34 | 2 46 | 10 10 | 0 19 | 3 19 | 0 30 | 20 52 | 0 10 | 23 42 | 0 0 | 5 19 | 0 43 | 12 27 | 1 48 | 5 14 | 10 57 | 12 26 | 12 55 | 5 27 | | n.a. |
| M 8 | 5 51 | 17 5 | 1 53 | 7 9 | 2 48 | 10 39 | 0 17 | 3 37 | 0 30 | 20 55 | 0 10 | 23 42 | 0 0 | 5 18 | 0 43 | 12 27 | 1 48 | 5 15 | 10 57 | 12 25 | 12 56 | 5 25 | | n.a. |
| T 9 | 6 13 | 14 44 | 0 51 | 6 41 | 2 50 | 11 7 | 0 14 | 3 55 | 0 29 | 20 57 | 0 10 | 23 42 | 0 0 | 5 17 | 0 43 | 12 28 | 1 48 | 5 15 | 10 57 | 12 25 | 12 57 | 5 23 | | n.a. |
| W10 | 6 36 | 11 47 | 0s13 | 6 12 | 2 51 | 11 36 | 0 12 | 4 13 | 0 28 | 20 59 | 0 10 | 23 42 | 0 0 | 5 15 | 0 43 | 12 29 | 1 48 | 5 16 | 10 57 | 12 25 | 12 58 | 5 21 | | n.a. |
| T 11 | 6 58 | 8 22 | 1 16 | 5 42 | 2 51 | 12 4 | 0 9 | 4 31 | 0 28 | 21 1 | 0 9 | 23 42 | 0 0 | 5 14 | 0 43 | 12 29 | 1 48 | 5 16 | 10 57 | 12 25 | 12 59 | 5 19 | | n.a. |
| F 12 | 7 21 | 4 38 | 2 15 | 5 9 | 2 51 | 12 32 | 0 7 | 4 48 | 0 27 | 21 4 | 0 9 | 23 42 | 0n 0 | 5 13 | 0 43 | 12 30 | 1 48 | 5 17 | 10 57 | 12 26 | 13 0 | 5 17 | | n.a. |
| S 13 | 7 43 | 0 42 | 3 9 | 4 36 | 2 50 | 12 59 | 0 5 | 5 6 | 0 27 | 21 6 | 0 9 | 23 42 | 0 0 | 5 12 | 0 43 | 12 31 | 1 48 | 5 17 | 10 57 | 12 28 | 13 1 | 5 15 | | n.a. |
| S 14 | 8 5 | 3n17 | 3 55 | 4 0 | 2 48 | 13 27 | 0 2 | 5 23 | 0 26 | 21 8 | 0 9 | 23 42 | 0 0 | 5 11 | 0 43 | 12 32 | 1 48 | 5 18 | 10 56 | 12 31 | 13 2 | 5 13 | | n.a. |
| M15 | 8 27 | 7 11 | 4 31 | 3 23 | 2 46 | 13 54 | 0n 0 | 5 41 | 0 25 | 21 10 | 0 9 | 23 42 | 0 0 | 5 9 | 0 43 | 12 32 | 1 48 | 5 18 | 10 56 | 12 34 | 13 4 | 5 12 | | n.a. |
| T 16 | 8 49 | 10 49 | 4 54 | 2 45 | 2 44 | 14 20 | 0 3 | 5 58 | 0 25 | 21 13 | 0 9 | 23 43 | 0 0 | 5 8 | 0 43 | 12 33 | 1 47 | 5 19 | 10 56 | 12 38 | 13 5 | 5 10 | | n.a. |
| W17 | 9 10 | 14 3 | 5 5 | 2 5 | 2 40 | 14 47 | 0 5 | 6 15 | 0 24 | 21 15 | 0 9 | 23 43 | 0 0 | 5 7 | 0 43 | 12 34 | 1 47 | 5 19 | 10 56 | 12 41 | 13 6 | 5 8 | | n.a. |
| T 18 | 9 32 | 16 42 | 5 1 | 1 24 | 2 36 | 15 12 | 0 8 | 6 33 | 0 24 | 21 17 | 0 9 | 23 43 | 0 1 | 5 6 | 0 43 | 12 35 | 1 47 | 5 20 | 10 56 | 12 44 | 13 7 | 5 6 | | n.a. |
| F 19 | 9 53 | 18 35 | 4 42 | 0 42 | 2 32 | 15 38 | 0 11 | 6 50 | 0 23 | 21 19 | 0 9 | 23 43 | 0 1 | 5 5 | 0 43 | 12 35 | 1 47 | 5 20 | 10 56 | 12 47 | 13 8 | 5 4 | | n.a. |
| S 20 | 10 14 | 19 33 | 4 8 | 0n 2 | 2 27 | 16 3 | 0 13 | 7 7 | 0 23 | 21 22 | 0 8 | 23 43 | 0 1 | 5 4 | 0 43 | 12 36 | 1 47 | 5 21 | 10 56 | 12 49 | 13 9 | 5 2 | | n.a. |
| S 21 | 10 35 | 19 28 | 3 21 | 0 47 | 2 21 | 16 28 | 0 16 | 7 24 | 0 22 | 21 24 | 0 8 | 23 43 | 0 1 | 5 2 | 0 43 | 12 37 | 1 47 | 5 21 | 10 56 | 12 49 | 13 10 | 5 0 | | n.a. |
| M22 | 10 56 | 18 17 | 2 22 | 1 33 | 2 15 | 16 52 | 0 18 | 7 41 | 0 21 | 21 26 | 0 8 | 23 43 | 0 1 | 5 1 | 0 43 | 12 37 | 1 47 | 5 22 | 10 56 | 12 50 | 13 11 | 4 58 | | n.a. |
| T 23 | 11 17 | 16 0 | 1 13 | 2 20 | 2 9 | 17 16 | 0 21 | 7 58 | 0 21 | 21 28 | 0 8 | 23 43 | 0 1 | 5 0 | 0 43 | 12 38 | 1 47 | 5 22 | 10 55 | 12 49 | 13 12 | 4 56 | | n.a. |
| W24 | 11 37 | 12 42 | 0n 3 | 3 9 | 2 1 | 17 40 | 0 23 | 8 14 | 0 20 | 21 30 | 0 8 | 23 43 | 0 1 | 4 59 | 0 43 | 12 39 | 1 47 | 5 23 | 10 55 | 12 49 | 13 13 | 4 54 | | n.a. |
| T 25 | 11 58 | 8 33 | 1 19 | 3 58 | 1 54 | 18 3 | 0 26 | 8 31 | 0 20 | 21 33 | 0 8 | 23 43 | 0 1 | 4 58 | 0 43 | 12 40 | 1 47 | 5 23 | 10 55 | 12 50 | 13 14 | 4 52 | | n.a. |
| F 26 | 12 18 | 3 50 | 2 32 | 4 49 | 1 46 | 18 25 | 0 28 | 8 48 | 0 19 | 21 35 | 0 8 | 23 43 | 0 1 | 4 57 | 0 43 | 12 40 | 1 47 | 5 23 | 10 55 | 12 51 | 13 15 | 4 50 | | n.a. |
| S 27 | 12 38 | 1s11 | 3 34 | 5 40 | 1 37 | 18 47 | 0 31 | 9 4 | 0 18 | 21 37 | 0 8 | 23 44 | 0 1 | 4 56 | 0 43 | 12 41 | 1 47 | 5 24 | 10 55 | 12 52 | 13 17 | 4 48 | | n.a. |
| S 28 | 12 58 | 6 8 | 4 23 | 6 32 | 1 28 | 19 9 | 0 33 | 9 20 | 0 18 | 21 39 | 0 7 | 23 44 | 0 1 | 4 55 | 0 43 | 12 42 | 1 47 | 5 24 | 10 55 | 12 55 | 13 18 | 4 46 | | n.a. |
| M29 | 13 17 | 10 40 | 4 53 | 7 25 | 1 19 | 19 30 | 0 36 | 9 37 | 0 17 | 21 41 | 0 7 | 23 44 | 0 2 | 4 54 | 0 44 | 12 43 | 1 47 | 5 25 | 10 55 | 12 58 | 13 19 | 4 44 | | n.a. |
| T 30 | 13n36 | 14s29 | 5n 3 | 8n19 | 1s 9 | 19n50 | 0n38 | 9n53 | 0s16 | 21n44 | 0s 7 | 23n44 | 0n 2 | 4s53 | 0s44 | 12n43 | 1s47 | 5n25 | 10s55 | 13n 2 | 13n20 | 4s42 | | n.a. |

Julian Day Number = 1689736.5, Delta T = 03h11m07s
Ecliptic obliquity = 23°42'13, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°15'45, Lahiri = - 5°08'45 Julian Calendar 1 Apr. 87 BCE == Greg. Calendar 30 March 087 BCE

The year -86 astronomical counting style corresponds to year 087 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 87 BCE
# geocentric

## MAY 87 BCE (-86) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 14 23 0 | 6♉46'28 | 9♐56 | 25♈57 | 26♉13 | 26♈40 | 7♊58 | 0♋53 | 19♓30 | 8♉18 | 12♉45 | 25°R43 | 24♌57 | 24♓ 6 | n.a. | W 1 |
| T 2 | 14 26 57 | 7°43'50 | 23°45 | 28° 0 | 27°26 | 27°23 | 8°10 | 0°58 | 19°33 | 8°20 | 12°47 | 25♌35 | 24°54 | 24°12 | n.a. | T 2 |
| F 3 | 14 30 54 | 8°41'12 | 7♑ 6 | 0♉ 4 | 28°39 | 28° 5 | 8°23 | 1° 4 | 19°35 | 8°22 | 12°48 | 25°29 | 24°51 | 24°19 | n.a. | F 3 |
| S 4 | 14 34 50 | 9°38'32 | 20° 0 | 2°10 | 29°52 | 28°47 | 8°35 | 1°10 | 19°38 | 8°24 | 12°50 | 25°25 | 24°48 | 24°26 | n.a. | S 4 |
| S 5 | 14 38 47 | 10°35'52 | 2♒31 | 4°18 | 1♊ 5 | 29°30 | 8°48 | 1°16 | 19°40 | 8°27 | 12°51 | 25°24 | 24°45 | 24°32 | n.a. | S 5 |
| M 6 | 14 42 43 | 11°33'11 | 14°43 | 6°27 | 2°19 | 0♉12 | 9° 1 | 1°21 | 19°43 | 8°29 | 12°52 | 25°D24 | 24°41 | 24°39 | n.a. | M 6 |
| T 7 | 14 46 40 | 12°30'29 | 26°41 | 8°37 | 3°32 | 0°54 | 9°13 | 1°27 | 19°45 | 8°31 | 12°54 | 25°R24 | 24°38 | 24°46 | n.a. | T 7 |
| W 8 | 14 50 36 | 13°27'47 | 8♓32 | 10°48 | 4°45 | 1°36 | 9°26 | 1°33 | 19°48 | 8°33 | 12°55 | 25°23 | 24°35 | 24°52 | n.a. | W 8 |
| T 9 | 14 54 33 | 14°25'04 | 20°19 | 12°59 | 5°58 | 2°18 | 9°39 | 1°39 | 19°50 | 8°36 | 12°56 | 25°21 | 24°32 | 24°59 | n.a. | T 9 |
| F 10 | 14 58 29 | 15°22'21 | 2♈ 8 | 15°11 | 7°11 | 3° 0 | 9°52 | 1°46 | 19°52 | 8°38 | 12°58 | 25°16 | 24°29 | 25° 6 | n.a. | F 10 |
| S 11 | 15 2 26 | 16°19'37 | 14° 3 | 17°23 | 8°23 | 3°42 | 10° 5 | 1°52 | 19°54 | 8°40 | 12°59 | 25° 9 | 24°25 | 25°12 | n.a. | S 11 |
| S 12 | 15 6 23 | 17°16'53 | 26° 6 | 19°35 | 9°36 | 4°24 | 10°18 | 1°58 | 19°57 | 8°42 | 13° 1 | 24°59 | 24°22 | 25°19 | n.a. | S 12 |
| M13 | 15 10 19 | 18°14'08 | 8♉20 | 21°46 | 10°49 | 5° 6 | 10°31 | 2° 4 | 19°59 | 8°44 | 13° 2 | 24°47 | 24°19 | 25°26 | n.a. | M13 |
| T 14 | 15 14 16 | 19°11'22 | 20°45 | 23°56 | 12° 2 | 5°48 | 10°44 | 2°10 | 20° 1 | 8°47 | 13° 3 | 24°34 | 24°16 | 25°32 | n.a. | T 14 |
| W15 | 15 18 12 | 20° 8'36 | 3♊23 | 26° 5 | 13°15 | 6°29 | 10°57 | 2°17 | 20° 3 | 8°49 | 13° 5 | 24°21 | 24°13 | 25°39 | n.a. | W15 |
| T 16 | 15 22 9 | 21° 5'49 | 16°13 | 28°14 | 14°28 | 7°11 | 11°10 | 2°23 | 20° 5 | 8°51 | 13° 6 | 24° 9 | 24°10 | 25°46 | n.a. | T 16 |
| F 17 | 15 26 5 | 22° 3'01 | 29°14 | 0♊20 | 15°41 | 7°53 | 11°23 | 2°30 | 20° 7 | 8°53 | 13° 7 | 23°59 | 24° 6 | 25°52 | n.a. | F 17 |
| S 18 | 15 30 2 | 23° 0'13 | 12♋27 | 2°25 | 16°54 | 8°34 | 11°36 | 2°36 | 20° 9 | 8°56 | 13° 9 | 23°52 | 24° 3 | 25°59 | n.a. | S 18 |
| S 19 | 15 33 58 | 23°57'24 | 25°51 | 4°29 | 18° 6 | 9°16 | 11°49 | 2°43 | 20°11 | 8°58 | 13°10 | 23°48 | 24° 0 | 26° 6 | n.a. | S 19 |
| M20 | 15 37 55 | 24°54'34 | 9♌28 | 6°30 | 19°19 | 9°57 | 12° 2 | 2°50 | 20°13 | 9° 0 | 13°12 | 23°47 | 23°57 | 26°12 | n.a. | M20 |
| T 21 | 15 41 52 | 25°51'44 | 23°17 | 8°30 | 20°32 | 10°39 | 12°15 | 2°56 | 20°15 | 9° 2 | 13°13 | 23°46 | 23°54 | 26°19 | n.a. | T 21 |
| W22 | 15 45 48 | 26°48'53 | 7♍19 | 10°28 | 21°45 | 11°20 | 12°29 | 3° 3 | 20°16 | 9° 4 | 13°14 | 23°46 | 23°51 | 26°26 | n.a. | W22 |
| T 23 | 15 49 45 | 27°46'01 | 21°35 | 12°23 | 22°57 | 12° 1 | 12°42 | 3°10 | 20°18 | 9° 6 | 13°16 | 23°45 | 23°47 | 26°32 | n.a. | T 23 |
| F 24 | 15 53 41 | 28°43'08 | 6♎ 1 | 14°17 | 24°10 | 12°43 | 12°55 | 3°17 | 20°20 | 9° 9 | 13°17 | 23°42 | 23°44 | 26°39 | n.a. | F 24 |
| S 25 | 15 57 38 | 29°40'15 | 20°35 | 16° 8 | 25°22 | 13°24 | 13° 8 | 3°23 | 20°22 | 9°11 | 13°18 | 23°36 | 23°41 | 26°46 | n.a. | S 25 |
| S 26 | 16 1 34 | 0♊37'22 | 5♏12 | 17°57 | 26°35 | 14° 5 | 13°22 | 3°30 | 20°23 | 9°13 | 13°20 | 23°27 | 23°38 | 26°52 | n.a. | S 26 |
| M27 | 16 5 31 | 1°34'28 | 19°45 | 19°44 | 27°48 | 14°46 | 13°35 | 3°37 | 20°25 | 9°15 | 13°21 | 23°17 | 23°35 | 26°59 | n.a. | M27 |
| T 28 | 16 9 28 | 2°31'34 | 4♐ 6 | 21°28 | 29° 0 | 15°27 | 13°48 | 3°44 | 20°26 | 9°17 | 13°22 | 23° 5 | 23°31 | 27° 6 | n.a. | T 28 |
| W29 | 16 13 24 | 3°28'40 | 18°10 | 23°11 | 0♋13 | 16° 8 | 14° 2 | 3°51 | 20°28 | 9°19 | 13°24 | 22°55 | 23°28 | 27°12 | n.a. | W29 |
| T 30 | 16 17 21 | 4°25'45 | 1♑51 | 24°51 | 1°25 | 16°49 | 14°15 | 3°58 | 20°29 | 9°21 | 13°25 | 22°45 | 23°25 | 27°19 | n.a. | T 30 |
| F 31 | 16 21 17 | 5♊22'51 | 15♑ 9 | 26♊29 | 2♋37 | 17♉30 | 14♊29 | 4♋ 5 | 20♓31 | 9♉23 | 13♉26 | 22♌38 | 23♌22 | 27♓26 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| W 1 | 13n56 | 17s21 | 4n54 | 9n12 | 1s 0 | 20n10 | 0n40 | 10n 9 | 0s16 | 21n46 | 0s 7 | 23n44 | 0n 2 | 4s52 | 0s44 | 12n44 | 1s47 | 5n26 | 10s55 | 13n 5 | 13n21 | 4s40 | | | n.a. |
| T 2 | 14 14 | 19 6 | 4 27 | 10 7 | 0 49 | 20 30 | 0 43 | 10 25 | 0 15 | 21 48 | 0 7 | 23 44 | 0 2 | 4 51 | 0 44 | 12 45 | 1 47 | 5 26 | 10 55 | 13 8 | 13 22 | 4 38 | | | n.a. |
| F 3 | 14 33 | 19 44 | 3 47 | 11 1 | 0 39 | 20 49 | 0 45 | 10 41 | 0 15 | 21 50 | 0 7 | 23 44 | 0 2 | 4 50 | 0 44 | 12 46 | 1 47 | 5 27 | 10 55 | 13 10 | 13 23 | 4 36 | | | n.a. |
| S 4 | 14 52 | 19 17 | 2 56 | 11 55 | 0 28 | 21 7 | 0 48 | 10 57 | 0 14 | 21 52 | 0 7 | 23 44 | 0 2 | 4 49 | 0 44 | 12 46 | 1 47 | 5 27 | 10 55 | 13 11 | 13 24 | 4 34 | | | n.a. |
| S 5 | 15 10 | 17 54 | 1 58 | 12 49 | 0 18 | 21 25 | 0 50 | 11 12 | 0 13 | 21 54 | 0 7 | 23 44 | 0 2 | 4 48 | 0 44 | 12 47 | 1 47 | 5 28 | 10 55 | 13 12 | 13 25 | 4 32 | | | n.a. |
| M 6 | 15 28 | 15 42 | 0 56 | 13 43 | 0 7 | 21 42 | 0 52 | 11 28 | 0 13 | 21 56 | 0 7 | 23 44 | 0 2 | 4 47 | 0 44 | 12 48 | 1 47 | 5 28 | 10 55 | 13 12 | 13 26 | 4 30 | | | n.a. |
| T 7 | 15 46 | 12 52 | 0s 7 | 14 35 | 0n 4 | 21 59 | 0 55 | 11 43 | 0 12 | 21 58 | 0 6 | 23 44 | 0 2 | 4 46 | 0 44 | 12 48 | 1 47 | 5 29 | 10 54 | 13 12 | 13 27 | 4 28 | | | n.a. |
| W 8 | 16 3 | 9 32 | 1 9 | 15 27 | 0 14 | 22 15 | 0 57 | 11 59 | 0 12 | 22 0 | 0 6 | 23 44 | 0 2 | 4 45 | 0 44 | 12 49 | 1 47 | 5 29 | 10 54 | 13 12 | 13 28 | 4 27 | | | n.a. |
| T 9 | 16 20 | 5 50 | 2 8 | 16 18 | 0 25 | 22 30 | 0 59 | 12 14 | 0 11 | 22 2 | 0 6 | 23 44 | 0 2 | 4 44 | 0 44 | 12 50 | 1 47 | 5 29 | 10 54 | 13 13 | 13 29 | 4 25 | | | n.a. |
| F 10 | 16 37 | 1 55 | 3 2 | 17 7 | 0 35 | 22 45 | 1 1 | 12 29 | 0 10 | 22 4 | 0 6 | 23 44 | 0 3 | 4 44 | 0 44 | 12 51 | 1 47 | 5 30 | 10 54 | 13 14 | 13 30 | 4 23 | | | n.a. |
| S 11 | 16 54 | 2n 7 | 3 47 | 17 55 | 0 45 | 22 59 | 1 3 | 12 44 | 0 10 | 22 6 | 0 6 | 23 44 | 0 3 | 4 43 | 0 44 | 12 51 | 1 47 | 5 30 | 10 54 | 13 17 | 13 32 | 4 21 | | | n.a. |
| S 12 | 17 11 | 6 6 | 4 24 | 18 41 | 0 54 | 23 13 | 1 5 | 12 59 | 0 9 | 22 9 | 0 6 | 23 44 | 0 3 | 4 42 | 0 44 | 12 52 | 1 47 | 5 31 | 10 54 | 13 20 | 13 33 | 4 19 | | | n.a. |
| M13 | 17 27 | 9 53 | 4 48 | 19 25 | 1 3 | 23 26 | 1 8 | 13 14 | 0 8 | 22 11 | 0 6 | 23 44 | 0 3 | 4 41 | 0 44 | 12 53 | 1 47 | 5 31 | 10 54 | 13 24 | 13 34 | 4 17 | | | n.a. |
| T 14 | 17 43 | 13 19 | 5 0 | 20 7 | 1 11 | 23 38 | 1 10 | 13 28 | 0 8 | 22 12 | 0 6 | 23 44 | 0 3 | 4 40 | 0 44 | 12 53 | 1 47 | 5 31 | 10 54 | 13 29 | 13 35 | 4 15 | | | n.a. |
| W15 | 17 58 | 16 13 | 4 57 | 20 46 | 1 19 | 23 49 | 1 12 | 13 43 | 0 7 | 22 14 | 0 6 | 23 44 | 0 3 | 4 39 | 0 44 | 12 54 | 1 47 | 5 32 | 10 54 | 13 33 | 13 36 | 4 13 | | | n.a. |
| T 16 | 18 14 | 18 22 | 4 39 | 21 24 | 1 27 | 24 0 | 1 14 | 13 57 | 0 7 | 22 16 | 0 5 | 23 44 | 0 3 | 4 39 | 0 44 | 12 55 | 1 47 | 5 32 | 10 54 | 13 37 | 13 37 | 4 11 | | | n.a. |
| F 17 | 18 29 | 19 36 | 4 6 | 21 58 | 1 33 | 24 11 | 1 16 | 14 12 | 0 6 | 22 18 | 0 5 | 23 44 | 0 3 | 4 38 | 0 44 | 12 56 | 1 47 | 5 33 | 10 54 | 13 40 | 13 38 | 4 9 | | | n.a. |
| S 18 | 18 44 | 19 48 | 3 20 | 22 30 | 1 39 | 24 20 | 1 17 | 14 26 | 0 5 | 22 20 | 0 5 | 23 44 | 0 3 | 4 37 | 0 44 | 12 56 | 1 47 | 5 33 | 10 54 | 13 43 | 13 39 | 4 7 | | | n.a. |
| S 19 | 18 58 | 18 53 | 2 22 | 22 59 | 1 45 | 24 29 | 1 19 | 14 40 | 0 5 | 22 22 | 0 5 | 23 44 | 0 3 | 4 36 | 0 44 | 12 57 | 1 47 | 5 33 | 10 54 | 13 44 | 13 40 | 4 5 | | | n.a. |
| M20 | 19 12 | 16 53 | 1 15 | 23 26 | 1 50 | 24 37 | 1 21 | 14 54 | 0 4 | 22 24 | 0 5 | 23 44 | 0 3 | 4 36 | 0 44 | 12 58 | 1 47 | 5 34 | 10 54 | 13 45 | 13 41 | 4 3 | | | n.a. |
| T 21 | 19 26 | 13 52 | 0 3 | 23 50 | 1 53 | 24 44 | 1 23 | 15 7 | 0 4 | 22 26 | 0 5 | 23 44 | 0 4 | 4 35 | 0 44 | 12 58 | 1 47 | 5 34 | 10 54 | 13 45 | 13 42 | 4 1 | | | n.a. |
| W22 | 19 40 | 10 1 | 1n11 | 24 11 | 1 57 | 24 51 | 1 24 | 15 21 | 0 3 | 22 28 | 0 5 | 23 44 | 0 4 | 4 34 | 0 44 | 12 59 | 1 47 | 5 35 | 10 54 | 13 45 | 13 43 | 3 59 | | | n.a. |
| T 23 | 19 53 | 5 32 | 2 21 | 24 30 | 1 59 | 24 57 | 1 26 | 15 35 | 0 2 | 22 30 | 0 5 | 23 44 | 0 4 | 4 33 | 0 44 | 13 0 | 1 47 | 5 35 | 10 54 | 13 45 | 13 44 | 3 57 | | | n.a. |
| F 24 | 20 6 | 0 42 | 3 24 | 24 46 | 2 1 | 25 2 | 1 28 | 15 48 | 0 2 | 22 31 | 0 5 | 23 44 | 0 4 | 4 33 | 0 44 | 13 0 | 1 47 | 5 35 | 10 54 | 13 46 | 13 45 | 3 55 | | | n.a. |
| S 25 | 20 18 | 4s14 | 4 13 | 25 0 | 2 2 | 25 6 | 1 29 | 16 1 | 0 1 | 22 33 | 0 4 | 23 43 | 0 4 | 4 32 | 0 44 | 13 1 | 1 47 | 5 36 | 10 54 | 13 48 | 13 46 | 3 53 | | | n.a. |
| S 26 | 20 30 | 8 54 | 4 46 | 25 11 | 2 3 | 25 10 | 1 31 | 16 14 | 0 0 | 22 35 | 0 4 | 23 43 | 0 4 | 4 32 | 0 44 | 13 2 | 1 47 | 5 36 | 10 54 | 13 51 | 13 47 | 3 51 | | | n.a. |
| M27 | 20 42 | 13 3 | 5 0 | 25 20 | 2 2 | 25 13 | 1 32 | 16 27 | 0n 0 | 22 37 | 0 4 | 23 43 | 0 4 | 4 31 | 0 44 | 13 2 | 1 47 | 5 36 | 10 54 | 13 55 | 13 49 | 3 49 | | | n.a. |
| T 28 | 20 54 | 16 22 | 4 55 | 25 27 | 2 1 | 25 15 | 1 33 | 16 40 | 0 1 | 22 38 | 0 4 | 23 43 | 0 4 | 4 30 | 0 44 | 13 3 | 1 47 | 5 37 | 10 54 | 13 58 | 13 50 | 3 47 | | | n.a. |
| W29 | 21 5 | 18 39 | 4 33 | 25 31 | 2 0 | 25 17 | 1 34 | 16 52 | 0 2 | 22 40 | 0 4 | 23 43 | 0 4 | 4 30 | 0 44 | 13 4 | 1 47 | 5 37 | 10 54 | 14 2 | 13 51 | 3 45 | | | n.a. |
| T 30 | 21 16 | 19 47 | 3 54 | 25 34 | 1 58 | 25 17 | 1 36 | 17 5 | 0 2 | 22 42 | 0 4 | 23 43 | 0 4 | 4 29 | 0 44 | 13 4 | 1 47 | 5 37 | 10 55 | 14 5 | 13 52 | 3 43 | | | n.a. |
| F 31 | 21n26 | 19s47 | 3n 4 | 25n34 | 1n55 | 25n17 | 1n37 | 17n17 | 0n 3 | 22n44 | 0s 4 | 23n43 | 0n 4 | 4s29 | 0s44 | 13n 5 | 1s48 | 5n38 | 10s55 | 14n 7 | 13n53 | 3s41 | | | n.a. |

Julian Day Number = 1689766.5, Delta T = 03h11m06s
Ecliptic obliquity = 23°42'13, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°15'41, Lahiri = - 5°08'40 Julian Calendar 1 May 87 BCE == Greg. Calendar 29 Apr. 087 BCE

The year -86 astronomical counting style corresponds to year 087 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 87 BCE
# geocentric

## JUNE 87 BCE (-86) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 25 14 | 6♊19'57 | 28♋ 2 | 28♊ 4 | 3♋50 | 18♉11 | 14♊42 | 4♋13 | 20♓32 | 9♉25 | 13♉27 | 22°R34 | 23♌19 | 27♓32 | n.a. | S 1 |
| S 2 | 16 29 10 | 7°17'03 | 10♒33 | 29°38 | 5° 2 | 18°52 | 14°55 | 4°20 | 20°34 | 9°27 | 13°29 | 22♌32 | 23°16 | 27°39 | n.a. | S 2 |
| M 3 | 16 33 7 | 8°14'09 | 22°46 | 1♌ 9 | 6°15 | 19°33 | 15° 9 | 4°27 | 20°35 | 9°29 | 13°30 | 22°D31 | 23°12 | 27°46 | n.a. | M 3 |
| T 4 | 16 37 3 | 9°11'16 | 4♓46 | 2°38 | 7°27 | 20°13 | 15°22 | 4°34 | 20°36 | 9°31 | 13°31 | 22°R31 | 23° 9 | 27°52 | n.a. | T 4 |
| W 5 | 16 41 0 | 10° 8'23 | 16°38 | 4° 4 | 8°39 | 20°54 | 15°36 | 4°41 | 20°37 | 9°33 | 13°32 | 22°31 | 23° 6 | 27°59 | n.a. | W 5 |
| T 6 | 16 44 57 | 11° 5'30 | 28°28 | 5°28 | 9°51 | 21°35 | 15°49 | 4°49 | 20°38 | 9°35 | 13°34 | 22°30 | 23° 3 | 28° 6 | n.a. | T 6 |
| F 7 | 16 48 53 | 12° 2'38 | 10♈19 | 6°50 | 11° 4 | 22°15 | 16° 3 | 4°56 | 20°39 | 9°37 | 13°35 | 22°26 | 23° 0 | 28°12 | n.a. | F 7 |
| S 8 | 16 52 50 | 12°59'46 | 22°18 | 8° 9 | 12°16 | 22°56 | 16°16 | 5° 3 | 20°41 | 9°39 | 13°36 | 22°20 | 22°57 | 28°19 | n.a. | S 8 |
| S 9 | 16 56 46 | 13°56'54 | 4♉28 | 9°26 | 13°28 | 23°36 | 16°29 | 5°11 | 20°42 | 9°41 | 13°37 | 22°12 | 22°53 | 28°26 | n.a. | S 9 |
| M10 | 17 0 43 | 14°54'03 | 16°52 | 10°41 | 14°40 | 24°17 | 16°43 | 5°18 | 20°43 | 9°43 | 13°39 | 22° 2 | 22°50 | 28°32 | n.a. | M10 |
| T 11 | 17 4 39 | 15°51'12 | 29°30 | 11°53 | 15°52 | 24°57 | 16°56 | 5°26 | 20°43 | 9°45 | 13°40 | 21°51 | 22°47 | 28°39 | n.a. | T 11 |
| W12 | 17 8 36 | 16°48'22 | 12♊25 | 13° 2 | 17° 4 | 25°38 | 17°10 | 5°33 | 20°44 | 9°47 | 13°41 | 21°40 | 22°44 | 28°46 | n.a. | W12 |
| T 13 | 17 12 32 | 17°45'32 | 25°35 | 14° 9 | 18°16 | 26°18 | 17°23 | 5°41 | 20°45 | 9°49 | 13°42 | 21°30 | 22°41 | 28°52 | n.a. | T 13 |
| F 14 | 17 16 29 | 18°42'43 | 8♋58 | 15°12 | 19°28 | 26°58 | 17°37 | 5°48 | 20°46 | 9°51 | 13°43 | 21°22 | 22°37 | 28°59 | n.a. | F 14 |
| S 15 | 17 20 26 | 19°39'54 | 22°33 | 16°13 | 20°40 | 27°38 | 17°50 | 5°56 | 20°47 | 9°52 | 13°45 | 21°16 | 22°34 | 29° 6 | n.a. | S 15 |
| S 16 | 17 24 22 | 20°37'05 | 6♌18 | 17°11 | 21°52 | 28°18 | 18° 4 | 6° 3 | 20°47 | 9°54 | 13°46 | 21°13 | 22°31 | 29°12 | n.a. | S 16 |
| M17 | 17 28 19 | 21°34'16 | 20°10 | 18° 6 | 23° 4 | 28°59 | 18°17 | 6°11 | 20°48 | 9°56 | 13°47 | 21°D12 | 22°28 | 29°19 | n.a. | M17 |
| T 18 | 17 32 15 | 22°31'27 | 4♍10 | 18°57 | 24°16 | 29°39 | 18°31 | 6°18 | 20°49 | 9°58 | 13°48 | 21°12 | 22°25 | 29°26 | n.a. | T 18 |
| W19 | 17 36 12 | 23°28'39 | 18°14 | 19°45 | 25°28 | 0♊19 | 18°44 | 6°26 | 20°49 | 10° 0 | 13°49 | 21°R13 | 22°22 | 29°32 | n.a. | W19 |
| T 20 | 17 40 8 | 24°25'51 | 2♎24 | 20°30 | 26°40 | 0°59 | 18°58 | 6°33 | 20°50 | 10° 1 | 13°50 | 21°13 | 22°18 | 29°39 | n.a. | T 20 |
| F 21 | 17 44 5 | 25°23'03 | 16°37 | 21°11 | 27°51 | 1°39 | 19°11 | 6°41 | 20°50 | 10° 3 | 13°51 | 21°11 | 22°15 | 29°46 | n.a. | F 21 |
| S 22 | 17 48 1 | 26°20'16 | 0♏51 | 21°48 | 29° 3 | 2°18 | 19°24 | 6°49 | 20°50 | 10° 5 | 13°52 | 21° 7 | 22°12 | 29°52 | n.a. | S 22 |
| S 23 | 17 51 58 | 27°17'29 | 15° 3 | 22°22 | 0♌15 | 2°58 | 19°38 | 6°56 | 20°51 | 10° 6 | 13°53 | 21° 1 | 22° 9 | 29°59 | n.a. | S 23 |
| M24 | 17 55 55 | 28°14'42 | 29°10 | 22°51 | 1°26 | 3°38 | 19°51 | 7° 4 | 20°51 | 10° 8 | 13°54 | 20°53 | 22° 6 | 0♈ 6 | n.a. | M24 |
| T 25 | 17 59 51 | 29°11'56 | 13♐ 5 | 23°16 | 2°38 | 4°18 | 20° 5 | 7°12 | 20°51 | 10°10 | 13°55 | 20°45 | 22° 2 | 0°12 | n.a. | T 25 |
| W26 | 18 3 48 | 0♋ 9'11 | 26°47 | 23°36 | 3°49 | 4°57 | 20°18 | 7°19 | 20°51 | 10°11 | 13°56 | 20°37 | 21°59 | 0°19 | n.a. | W26 |
| T 27 | 18 7 44 | 1° 6'27 | 10♑11 | 23°52 | 5° 1 | 5°37 | 20°31 | 7°27 | 20°52 | 10°13 | 13°57 | 20°30 | 21°56 | 0°26 | n.a. | T 27 |
| F 28 | 18 11 41 | 2° 3'43 | 23°16 | 24° 3 | 6°12 | 6°17 | 20°45 | 7°35 | 20°52 | 10°14 | 13°58 | 20°25 | 21°53 | 0°32 | n.a. | F 28 |
| S 29 | 18 15 37 | 3° 1'01 | 6♒ 2 | 24° 9 | 7°24 | 6°56 | 20°58 | 7°43 | 20°R52 | 10°16 | 13°59 | 20°22 | 21°50 | 0°39 | n.a. | S 29 |
| S 30 | 18 19 34 | 3♋58'19 | 18♒29 | 24°R10 | 8♌35 | 7♊36 | 21♊11 | 7♋50 | 20♓52 | 10♉17 | 14♉ 0 | 20°D21 | 21♌47 | 0♈46 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21n36 | 18s43 | 2n 6 | 25n32 | 1n51 | 25n17 | 1n38 | 17n29 | 0n 3 | 22n45 | 0s 4 | 23n43 | 0n 4 | 4s28 | 0s44 | 13n 6 | 1s48 | 5n38 | 10s55 | 14n 9 | 13n54 | 3s39 | | n.a. |
| S 2 | 21 46 | 16 46 | 1 3 | 25 29 | 1 47 | 25 15 | 1 39 | 17 41 | 0 4 | 22 47 | 0 4 | 23 42 | 0 5 | 4 28 | 0 45 | 13 6 | 1 48 | 5 38 | 10 55 | 14 9 | 13 55 | 3 37 | | n.a. |
| M 3 | 21 55 | 14 6 | 0s 1 | 25 24 | 1 42 | 25 13 | 1 40 | 17 53 | 0 5 | 22 48 | 0 3 | 23 42 | 0 5 | 4 27 | 0 45 | 13 7 | 1 48 | 5 39 | 10 55 | 14 10 | 13 56 | 3 35 | | n.a. |
| T 4 | 22 4 | 10 52 | 1 5 | 25 18 | 1 37 | 25 10 | 1 41 | 18 5 | 0 5 | 22 50 | 0 3 | 23 42 | 0 5 | 4 27 | 0 45 | 13 7 | 1 48 | 5 39 | 10 55 | 14 10 | 13 57 | 3 33 | | n.a. |
| W 5 | 22 13 | 7 14 | 2 5 | 25 9 | 1 31 | 25 6 | 1 41 | 18 16 | 0 6 | 22 52 | 0 3 | 23 42 | 0 5 | 4 26 | 0 45 | 13 8 | 1 48 | 5 39 | 10 55 | 14 10 | 13 58 | 3 31 | | n.a. |
| T 6 | 22 21 | 3 21 | 2 59 | 25 0 | 1 25 | 25 2 | 1 42 | 18 28 | 0 7 | 22 53 | 0 3 | 23 42 | 0 5 | 4 26 | 0 45 | 13 9 | 1 48 | 5 40 | 10 55 | 14 10 | 13 59 | 3 29 | | n.a. |
| F 7 | 22 29 | 0n41 | 3 46 | 24 49 | 1 18 | 24 57 | 1 43 | 18 39 | 0 7 | 22 55 | 0 3 | 23 42 | 0 5 | 4 25 | 0 45 | 13 9 | 1 48 | 5 40 | 10 55 | 14 11 | 14 0 | 3 27 | | n.a. |
| S 8 | 22 36 | 4 43 | 4 23 | 24 37 | 1 10 | 24 51 | 1 43 | 18 50 | 0 8 | 22 56 | 0 3 | 23 41 | 0 5 | 4 25 | 0 45 | 13 10 | 1 48 | 5 40 | 10 55 | 14 13 | 14 1 | 3 25 | | n.a. |
| S 9 | 22 44 | 8 37 | 4 49 | 24 24 | 1 2 | 24 44 | 1 44 | 19 1 | 0 8 | 22 58 | 0 3 | 23 41 | 0 5 | 4 25 | 0 45 | 13 10 | 1 48 | 5 40 | 10 55 | 14 16 | 14 2 | 3 23 | | n.a. |
| M10 | 22 50 | 12 14 | 5 2 | 24 9 | 0 54 | 24 37 | 1 44 | 19 12 | 0 9 | 22 59 | 0 3 | 23 41 | 0 5 | 4 24 | 0 45 | 13 11 | 1 48 | 5 41 | 10 55 | 14 19 | 14 3 | 3 21 | | n.a. |
| T 11 | 22 57 | 15 23 | 5 0 | 23 54 | 0 45 | 24 29 | 1 45 | 19 22 | 0 10 | 23 1 | 0 3 | 23 41 | 0 5 | 4 24 | 0 45 | 13 12 | 1 48 | 5 41 | 10 55 | 14 23 | 14 4 | 3 18 | | n.a. |
| W12 | 23 2 | 17 51 | 4 44 | 23 38 | 0 35 | 24 20 | 1 45 | 19 33 | 0 10 | 23 2 | 0 3 | 23 41 | 0 5 | 4 24 | 0 45 | 13 12 | 1 48 | 5 41 | 10 55 | 14 26 | 14 5 | 3 16 | | n.a. |
| T 13 | 23 8 | 19 26 | 4 12 | 23 22 | 0 25 | 24 11 | 1 45 | 19 43 | 0 11 | 23 3 | 0 2 | 23 40 | 0 6 | 4 23 | 0 45 | 13 13 | 1 48 | 5 42 | 10 55 | 14 30 | 14 6 | 3 14 | | n.a. |
| F 14 | 23 13 | 19 59 | 3 25 | 23 4 | 0 15 | 24 1 | 1 45 | 19 53 | 0 12 | 23 5 | 0 2 | 23 40 | 0 6 | 4 23 | 0 45 | 13 13 | 1 48 | 5 42 | 10 56 | 14 32 | 14 7 | 3 12 | | n.a. |
| S 15 | 23 18 | 19 23 | 2 27 | 22 46 | 0 4 | 23 50 | 1 45 | 20 3 | 0 12 | 23 6 | 0 2 | 23 40 | 0 6 | 4 23 | 0 45 | 13 14 | 1 48 | 5 42 | 10 56 | 14 34 | 14 9 | 3 10 | | n.a. |
| S 16 | 23 22 | 17 38 | 1 19 | 22 28 | 0s 7 | 23 38 | 1 45 | 20 13 | 0 13 | 23 7 | 0 2 | 23 40 | 0 6 | 4 23 | 0 45 | 13 14 | 1 48 | 5 42 | 10 56 | 14 35 | 14 10 | 3 8 | | n.a. |
| M17 | 23 26 | 14 50 | 0 6 | 22 9 | 0 19 | 23 26 | 1 45 | 20 22 | 0 14 | 23 9 | 0 2 | 23 39 | 0 6 | 4 22 | 0 45 | 13 15 | 1 48 | 5 42 | 10 56 | 14 35 | 14 11 | 3 6 | | n.a. |
| T 18 | 23 29 | 11 10 | 1n 9 | 21 50 | 0 31 | 23 13 | 1 45 | 20 32 | 0 14 | 23 10 | 0 2 | 23 39 | 0 6 | 4 22 | 0 45 | 13 15 | 1 48 | 5 43 | 10 56 | 14 35 | 14 12 | 3 4 | | n.a. |
| W19 | 23 32 | 6 50 | 2 20 | 21 31 | 0 43 | 23 0 | 1 45 | 20 41 | 0 15 | 23 11 | 0 2 | 23 39 | 0 6 | 4 22 | 0 45 | 13 16 | 1 48 | 5 43 | 10 56 | 14 35 | 14 13 | 3 2 | | n.a. |
| T 20 | 23 35 | 2 7 | 3 22 | 21 12 | 0 56 | 22 46 | 1 44 | 20 50 | 0 15 | 23 13 | 0 2 | 23 38 | 0 6 | 4 22 | 0 45 | 13 16 | 1 48 | 5 43 | 10 56 | 14 35 | 14 14 | 3 0 | | n.a. |
| F 21 | 23 37 | 2s43 | 4 13 | 20 53 | 1 9 | 22 31 | 1 44 | 20 59 | 0 16 | 23 14 | 0 2 | 23 38 | 0 6 | 4 22 | 0 45 | 13 17 | 1 48 | 5 43 | 10 56 | 14 36 | 14 15 | 2 58 | | n.a. |
| S 22 | 23 39 | 7 25 | 4 47 | 20 34 | 1 22 | 22 15 | 1 43 | 21 7 | 0 17 | 23 15 | 0 2 | 23 38 | 0 6 | 4 22 | 0 45 | 13 17 | 1 48 | 5 44 | 10 56 | 14 37 | 14 16 | 2 56 | | n.a. |
| S 23 | 23 41 | 11 41 | 5 5 | 20 16 | 1 35 | 21 59 | 1 43 | 21 16 | 0 17 | 23 16 | 0 1 | 23 38 | 0 6 | 4 22 | 0 45 | 13 18 | 1 48 | 5 44 | 10 57 | 14 39 | 14 17 | 2 54 | | n.a. |
| M24 | 23 41 | 15 16 | 5 3 | 19 57 | 1 49 | 21 43 | 1 42 | 21 24 | 0 18 | 23 17 | 0 1 | 23 37 | 0 6 | 4 21 | 0 45 | 13 18 | 1 48 | 5 44 | 10 57 | 14 41 | 14 18 | 2 52 | | n.a. |
| T 25 | 23 42 | 17 56 | 4 44 | 19 40 | 2 2 | 21 26 | 1 41 | 21 33 | 0 19 | 23 18 | 0 1 | 23 37 | 0 7 | 4 21 | 0 45 | 13 19 | 1 48 | 5 44 | 10 57 | 14 44 | 14 19 | 2 50 | | n.a. |
| W26 | 23 42 | 19 32 | 4 8 | 19 23 | 2 16 | 21 8 | 1 40 | 21 40 | 0 19 | 23 20 | 0 1 | 23 37 | 0 7 | 4 21 | 0 45 | 13 19 | 1 48 | 5 44 | 10 57 | 14 47 | 14 20 | 2 48 | | n.a. |
| T 27 | 23 42 | 20 0 | 3 19 | 19 7 | 2 30 | 20 50 | 1 39 | 21 48 | 0 20 | 23 21 | 0 1 | 23 36 | 0 7 | 4 21 | 0 45 | 13 20 | 1 48 | 5 44 | 10 57 | 14 49 | 14 21 | 2 46 | | n.a. |
| F 28 | 23 41 | 19 22 | 2 21 | 18 51 | 2 43 | 20 31 | 1 38 | 21 56 | 0 21 | 23 22 | 0 1 | 23 36 | 0 7 | 4 21 | 0 45 | 13 20 | 1 48 | 5 45 | 10 57 | 14 51 | 14 22 | 2 44 | | n.a. |
| S 29 | 23 40 | 17 44 | 1 17 | 18 37 | 2 57 | 20 11 | 1 37 | 22 3 | 0 21 | 23 23 | 0 1 | 23 35 | 0 7 | 4 21 | 0 45 | 13 21 | 1 48 | 5 45 | 10 57 | 14 52 | 14 23 | 2 42 | | n.a. |
| S 30 | 23n39 | 15s18 | 0n10 | 18n24 | 3s10 | 19n51 | 1n36 | 22n11 | 0n22 | 23n24 | 0s 1 | 23n35 | 0n 7 | 4s21 | 0s45 | 13n21 | 1s49 | 5n45 | 10s57 | 14n52 | 14n24 | 2s40 | | n.a. |

Julian Day Number = 1689797.5, Delta T = 03h11m05s
Ecliptic obliquity = 23°42'12, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°15'37, Lahiri = - 5°08'36 Julian Calendar 1 June 87 BCE == Greg. Calendar 30 May 087 BCE

The year -86 astronomical counting style corresponds to year 087 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 87 BCE
# geocentric

## JULY 87 BCE (-86) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 18 23 31 | 4♋55'39 | 0♓40 | 24°R 6 | 9♌46 | 8♊15 | 21♊25 | 7♋58 | 20°R52 | 10♉19 | 14♉ 1 | 20♌21 | 21♌43 | 0♈52 | n.a. | M 1 |
| T 2 | 18 27 27 | 5°52'59 | 12°40 | 23♋57 | 10°57 | 8°55 | 21°38 | 8° 6 | 20♓52 | 10°20 | 14° 2 | 20°23 | 21°40 | 0°59 | n.a. | T 2 |
| W 3 | 18 31 24 | 6°50'21 | 24°33 | 23°43 | 12° 9 | 9°34 | 21°51 | 8°13 | 20°51 | 10°22 | 14° 3 | 20°24 | 21°37 | 1° 6 | n.a. | W 3 |
| T 4 | 18 35 20 | 7°47'44 | 6♈23 | 23°23 | 13°20 | 10°13 | 22° 4 | 8°21 | 20°51 | 10°23 | 14° 4 | 20°R25 | 21°34 | 1°12 | n.a. | T 4 |
| F 5 | 18 39 17 | 8°45'09 | 18°16 | 22°59 | 14°31 | 10°53 | 22°17 | 8°29 | 20°51 | 10°25 | 14° 5 | 20°24 | 21°31 | 1°19 | n.a. | F 5 |
| S 6 | 18 43 13 | 9°42'35 | 0♉17 | 22°30 | 15°42 | 11°32 | 22°30 | 8°37 | 20°51 | 10°26 | 14° 6 | 20°22 | 21°28 | 1°26 | n.a. | S 6 |
| S 7 | 18 47 10 | 10°40'02 | 12°30 | 21°56 | 16°53 | 12°11 | 22°44 | 8°44 | 20°50 | 10°27 | 14° 7 | 20°18 | 21°24 | 1°32 | n.a. | S 7 |
| M 8 | 18 51 6 | 11°37'30 | 24°59 | 21°19 | 18° 4 | 12°50 | 22°57 | 8°52 | 20°50 | 10°28 | 14° 7 | 20°13 | 21°21 | 1°39 | n.a. | M 8 |
| T 9 | 18 55 3 | 12°35'00 | 7♊47 | 20°37 | 19°15 | 13°29 | 23°10 | 9° 0 | 20°49 | 10°30 | 14° 8 | 20° 7 | 21°18 | 1°46 | n.a. | T 9 |
| W10 | 18 59 0 | 13°32'31 | 20°54 | 19°53 | 20°25 | 14° 8 | 23°23 | 9° 8 | 20°49 | 10°31 | 14° 9 | 20° 1 | 21°15 | 1°53 | n.a. | W10 |
| T 11 | 19 2 56 | 14°30'04 | 4♋21 | 19° 7 | 21°36 | 14°47 | 23°36 | 9°15 | 20°48 | 10°32 | 14°10 | 19°55 | 21°12 | 1°59 | n.a. | T 11 |
| F 12 | 19 6 53 | 15°27'38 | 18° 6 | 18°19 | 22°47 | 15°26 | 23°49 | 9°23 | 20°48 | 10°33 | 14°11 | 19°51 | 21° 8 | 2° 6 | n.a. | F 12 |
| S 13 | 19 10 49 | 16°25'13 | 2♌ 6 | 17°30 | 23°58 | 16° 5 | 24° 2 | 9°31 | 20°47 | 10°35 | 14°11 | 19°48 | 21° 5 | 2°13 | n.a. | S 13 |
| S 14 | 19 14 46 | 17°22'50 | 16°16 | 16°42 | 25° 8 | 16°44 | 24°15 | 9°38 | 20°47 | 10°36 | 14°12 | 19°D47 | 21° 2 | 2°19 | n.a. | S 14 |
| M15 | 19 18 42 | 18°20'27 | 0♍33 | 15°54 | 26°19 | 17°23 | 24°27 | 9°46 | 20°46 | 10°37 | 14°13 | 19°48 | 20°59 | 2°26 | n.a. | M15 |
| T 16 | 19 22 39 | 19°18'06 | 14°52 | 15° 9 | 27°29 | 18° 2 | 24°40 | 9°54 | 20°45 | 10°38 | 14°13 | 19°49 | 20°56 | 2°33 | n.a. | T 16 |
| W17 | 19 26 35 | 20°15'45 | 29°11 | 14°27 | 28°40 | 18°40 | 24°53 | 10° 1 | 20°44 | 10°39 | 14°14 | 19°50 | 20°53 | 2°39 | n.a. | W17 |
| T 18 | 19 30 32 | 21°13'26 | 13♎26 | 13°48 | 29°50 | 19°19 | 25° 6 | 10° 9 | 20°43 | 10°40 | 14°15 | 19°51 | 20°49 | 2°46 | n.a. | T 18 |
| F 19 | 19 34 29 | 22°11'08 | 27°36 | 13°15 | 1♏ 0 | 19°58 | 25°18 | 10°17 | 20°43 | 10°41 | 14°15 | 19°R51 | 20°46 | 2°53 | n.a. | F 19 |
| S 20 | 19 38 25 | 23° 8'51 | 11♏38 | 12°47 | 2°10 | 20°36 | 25°31 | 10°24 | 20°42 | 10°42 | 14°16 | 19°50 | 20°43 | 2°59 | n.a. | S 20 |
| S 21 | 19 42 22 | 24° 6'35 | 25°30 | 12°25 | 3°21 | 21°15 | 25°44 | 10°32 | 20°41 | 10°43 | 14°17 | 19°48 | 20°40 | 3° 6 | n.a. | S 21 |
| M22 | 19 46 18 | 25° 4'21 | 9♐12 | 12° 9 | 4°31 | 21°53 | 25°56 | 10°39 | 20°40 | 10°44 | 14°17 | 19°45 | 20°37 | 3°13 | n.a. | M22 |
| T 23 | 19 50 15 | 26° 2'08 | 22°42 | 12° 1 | 5°41 | 22°32 | 26° 9 | 10°47 | 20°38 | 10°44 | 14°18 | 19°41 | 20°34 | 3°19 | n.a. | T 23 |
| W24 | 19 54 11 | 26°59'56 | 5♑58 | 12°D 0 | 6°50 | 23°10 | 26°21 | 10°55 | 20°37 | 10°45 | 14°18 | 19°38 | 20°30 | 3°26 | n.a. | W24 |
| T 25 | 19 58 8 | 27°57'46 | 18°59 | 12° 7 | 8° 0 | 23°49 | 26°34 | 11° 2 | 20°36 | 10°46 | 14°19 | 19°35 | 20°27 | 3°33 | n.a. | T 25 |
| F 26 | 20 2 4 | 28°55'38 | 1♒46 | 12°21 | 9°10 | 24°27 | 26°46 | 11°10 | 20°35 | 10°47 | 14°19 | 19°33 | 20°24 | 3°39 | n.a. | F 26 |
| S 27 | 20 6 1 | 29°53'30 | 14°18 | 12°44 | 10°20 | 25° 5 | 26°58 | 11°17 | 20°34 | 10°48 | 14°20 | 19°D32 | 20°21 | 3°46 | n.a. | S 27 |
| S 28 | 20 9 58 | 0♌51'25 | 26°36 | 13°14 | 11°29 | 25°44 | 27°10 | 11°25 | 20°32 | 10°48 | 14°20 | 19°32 | 20°18 | 3°53 | n.a. | S 28 |
| M29 | 20 13 54 | 1°49'21 | 8♓42 | 13°53 | 12°39 | 26°22 | 27°23 | 11°32 | 20°31 | 10°49 | 14°21 | 19°33 | 20°14 | 3°59 | n.a. | M29 |
| T 30 | 20 17 51 | 2°47'20 | 20°40 | 14°38 | 13°48 | 27° 0 | 27°35 | 11°39 | 20°30 | 10°50 | 14°21 | 19°34 | 20°11 | 4° 6 | n.a. | T 30 |
| W31 | 20 21 47 | 3♌45'20 | 2♈32 | 15♋31 | 14♍57 | 27♊38 | 27♊47 | 11♋47 | 20♓28 | 10♉50 | 14♉21 | 19♌36 | 20♌ 8 | 4♈13 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| M 1 | 23n37 | 12s13 | 0s56 | 18n12 | 3s23 | 19n31 | 1n35 | 22n18 | 0n22 | 23n25 | 0s 1 | 23n35 | 0n 7 | 4s21 | 0s46 | 13n22 | 1s49 | 5n45 | 10s58 | 14n52 | 14n25 | 2s38 | | | n.a. |
| T 2 | 23 34 | 8 41 | 1 58 | 18 1 | 3 35 | 19 10 | 1 33 | 22 25 | 0 23 | 23 26 | 0 1 | 23 34 | 0 7 | 4 21 | 0 46 | 13 22 | 1 49 | 5 45 | 10 58 | 14 51 | 14 26 | 2 36 | | | n.a. |
| W 3 | 23 31 | 4 51 | 2 55 | 17 52 | 3 47 | 18 48 | 1 32 | 22 31 | 0 24 | 23 27 | 0 0 | 23 34 | 0 7 | 4 22 | 0 46 | 13 22 | 1 49 | 5 45 | 10 58 | 14 51 | 14 27 | 2 34 | | | n.a. |
| T 4 | 23 28 | 0 51 | 3 44 | 17 44 | 3 58 | 18 26 | 1 30 | 22 38 | 0 24 | 23 27 | 0 0 | 23 34 | 0 7 | 4 22 | 0 46 | 13 23 | 1 49 | 5 45 | 10 58 | 14 51 | 14 28 | 2 32 | | | n.a. |
| F 5 | 23 25 | 3n11 | 4 23 | 17 38 | 4 8 | 18 4 | 1 28 | 22 44 | 0 25 | 23 28 | 0 0 | 23 33 | 0 7 | 4 22 | 0 46 | 13 23 | 1 49 | 5 45 | 10 58 | 14 51 | 14 29 | 2 29 | | | n.a. |
| S 6 | 23 21 | 7 9 | 4 52 | 17 34 | 4 18 | 17 41 | 1 27 | 22 50 | 0 26 | 23 29 | 0 0 | 23 33 | 0 8 | 4 22 | 0 46 | 13 24 | 1 49 | 5 46 | 10 58 | 14 51 | 14 30 | 2 27 | | | n.a. |
| S 7 | 23 16 | 10 53 | 5 8 | 17 31 | 4 26 | 17 18 | 1 25 | 22 56 | 0 26 | 23 30 | 0 0 | 23 32 | 0 8 | 4 22 | 0 46 | 13 24 | 1 49 | 5 46 | 10 59 | 14 53 | 14 31 | 2 25 | | | n.a. |
| M 8 | 23 11 | 14 13 | 5 9 | 17 31 | 4 32 | 16 54 | 1 23 | 23 2 | 0 27 | 23 31 | 0n 0 | 23 32 | 0 8 | 4 22 | 0 46 | 13 24 | 1 49 | 5 46 | 10 59 | 14 54 | 14 32 | 2 23 | | | n.a. |
| T 9 | 23 6 | 16 59 | 4 56 | 17 32 | 4 38 | 16 30 | 1 21 | 23 8 | 0 28 | 23 32 | 0 0 | 23 31 | 0 8 | 4 23 | 0 46 | 13 25 | 1 49 | 5 46 | 10 59 | 14 56 | 14 33 | 2 21 | | | n.a. |
| W10 | 23 0 | 18 57 | 4 27 | 17 35 | 4 41 | 16 5 | 1 19 | 23 13 | 0 28 | 23 32 | 0 0 | 23 31 | 0 8 | 4 23 | 0 46 | 13 25 | 1 49 | 5 46 | 10 59 | 14 58 | 14 34 | 2 19 | | | n.a. |
| T 11 | 22 54 | 19 55 | 3 43 | 17 39 | 4 43 | 15 40 | 1 17 | 23 18 | 0 29 | 23 33 | 0 0 | 23 31 | 0 8 | 4 23 | 0 46 | 13 25 | 1 49 | 5 46 | 10 59 | 15 0 | 14 35 | 2 17 | | | n.a. |
| F 12 | 22 48 | 19 45 | 2 44 | 17 45 | 4 43 | 15 15 | 1 15 | 23 23 | 0 29 | 23 34 | 0 1 | 23 30 | 0 8 | 4 23 | 0 46 | 13 26 | 1 49 | 5 46 | 10 59 | 15 1 | 14 37 | 2 15 | | | n.a. |
| S 13 | 22 41 | 18 22 | 1 35 | 17 53 | 4 42 | 14 49 | 1 12 | 23 28 | 0 30 | 23 35 | 0 1 | 23 30 | 0 8 | 4 24 | 0 46 | 13 26 | 1 49 | 5 46 | 10 59 | 15 2 | 14 38 | 2 13 | | | n.a. |
| S 14 | 22 34 | 15 50 | 0 19 | 18 3 | 4 38 | 14 23 | 1 10 | 23 33 | 0 31 | 23 35 | 0 1 | 23 29 | 0 8 | 4 24 | 0 46 | 13 26 | 1 49 | 5 46 | 11 0 | 15 3 | 14 39 | 2 11 | | | n.a. |
| M15 | 22 26 | 12 19 | 0n59 | 18 14 | 4 33 | 13 56 | 1 7 | 23 37 | 0 31 | 23 36 | 0 1 | 23 29 | 0 8 | 4 24 | 0 46 | 13 27 | 1 49 | 5 46 | 11 0 | 15 2 | 14 40 | 2 9 | | | n.a. |
| T 16 | 22 18 | 8 4 | 2 13 | 18 26 | 4 26 | 13 29 | 1 5 | 23 41 | 0 32 | 23 37 | 0 1 | 23 28 | 0 8 | 4 24 | 0 46 | 13 27 | 1 49 | 5 46 | 11 0 | 15 2 | 14 41 | 2 7 | | | n.a. |
| W17 | 22 9 | 3 22 | 3 19 | 18 39 | 4 17 | 13 2 | 1 2 | 23 45 | 0 33 | 23 37 | 0 1 | 23 28 | 0 9 | 4 25 | 0 46 | 13 27 | 1 49 | 5 46 | 11 0 | 15 2 | 14 42 | 2 5 | | | n.a. |
| T 18 | 22 0 | 1s29 | 4 13 | 18 54 | 4 6 | 12 35 | 0 59 | 23 49 | 0 33 | 23 38 | 0 1 | 23 27 | 0 9 | 4 25 | 0 46 | 13 27 | 1 49 | 5 46 | 11 0 | 15 1 | 14 43 | 2 3 | | | n.a. |
| F 19 | 21 51 | 6 13 | 4 51 | 19 9 | 3 54 | 12 7 | 0 57 | 23 53 | 0 34 | 23 38 | 0 1 | 23 27 | 0 9 | 4 26 | 0 46 | 13 28 | 1 49 | 5 46 | 11 1 | 15 1 | 14 44 | 2 0 | | | n.a. |
| S 20 | 21 42 | 10 34 | 5 11 | 19 25 | 3 41 | 11 39 | 0 54 | 23 57 | 0 35 | 23 39 | 0 1 | 23 26 | 0 9 | 4 26 | 0 46 | 13 28 | 1 50 | 5 46 | 11 1 | 15 2 | 14 45 | 1 58 | | | n.a. |
| S 21 | 21 32 | 14 18 | 5 12 | 19 41 | 3 27 | 11 11 | 0 51 | 24 0 | 0 35 | 23 39 | 0 1 | 23 26 | 0 9 | 4 26 | 0 46 | 13 28 | 1 50 | 5 46 | 11 1 | 15 2 | 14 46 | 1 56 | | | n.a. |
| M22 | 21 21 | 17 12 | 4 56 | 19 58 | 3 11 | 10 42 | 0 48 | 24 3 | 0 36 | 23 40 | 0 2 | 23 25 | 0 9 | 4 27 | 0 46 | 13 28 | 1 50 | 5 46 | 11 1 | 15 3 | 14 47 | 1 54 | | | n.a. |
| T 23 | 21 10 | 19 7 | 4 24 | 20 15 | 2 55 | 10 13 | 0 44 | 24 6 | 0 37 | 23 40 | 0 2 | 23 25 | 0 9 | 4 27 | 0 46 | 13 28 | 1 50 | 5 46 | 11 1 | 15 4 | 14 48 | 1 52 | | | n.a. |
| W24 | 20 59 | 19 57 | 3 37 | 20 31 | 2 39 | 9 44 | 0 41 | 24 9 | 0 37 | 23 41 | 0 2 | 23 24 | 0 9 | 4 28 | 0 46 | 13 29 | 1 50 | 5 46 | 11 1 | 15 6 | 14 49 | 1 50 | | | n.a. |
| T 25 | 20 48 | 19 42 | 2 41 | 20 48 | 2 22 | 9 15 | 0 38 | 24 11 | 0 38 | 23 41 | 0 2 | 23 24 | 0 9 | 4 28 | 0 46 | 13 29 | 1 50 | 5 46 | 11 2 | 15 6 | 14 50 | 1 48 | | | n.a. |
| F 26 | 20 36 | 18 25 | 1 37 | 21 4 | 2 4 | 8 45 | 0 35 | 24 14 | 0 39 | 23 42 | 0 2 | 23 23 | 0 9 | 4 29 | 0 46 | 13 29 | 1 50 | 5 46 | 11 2 | 15 7 | 14 51 | 1 46 | | | n.a. |
| S 27 | 20 24 | 16 16 | 0 29 | 21 19 | 1 47 | 8 16 | 0 31 | 24 16 | 0 39 | 23 42 | 0 2 | 23 22 | 0 9 | 4 29 | 0 46 | 13 29 | 1 50 | 5 46 | 11 2 | 15 7 | 14 52 | 1 44 | | | n.a. |
| S 28 | 20 11 | 13 24 | 0s39 | 21 33 | 1 30 | 7 46 | 0 28 | 24 18 | 0 40 | 23 43 | 0 2 | 23 22 | 0 10 | 4 30 | 0 46 | 13 29 | 1 50 | 5 46 | 11 2 | 15 7 | 14 53 | 1 42 | | | n.a. |
| M29 | 19 58 | 10 0 | 1 44 | 21 46 | 1 13 | 7 16 | 0 24 | 24 20 | 0 40 | 23 43 | 0 2 | 23 21 | 0 10 | 4 30 | 0 46 | 13 30 | 1 50 | 5 46 | 11 2 | 15 7 | 14 54 | 1 40 | | | n.a. |
| T 30 | 19 45 | 6 15 | 2 44 | 21 58 | 0 56 | 6 45 | 0 21 | 24 21 | 0 41 | 23 43 | 0 2 | 23 21 | 0 10 | 4 31 | 0 46 | 13 30 | 1 50 | 5 46 | 11 3 | 15 7 | 14 55 | 1 38 | | | n.a. |
| W31 | 19n32 | 2s17 | 3s36 | 22n 8 | 0s40 | 6n15 | 0n17 | 24n23 | 0n42 | 23n44 | 0n 3 | 23n20 | 0n10 | 4s32 | 0s46 | 13n30 | 1s50 | 5n46 | 11s 3 | 15n 6 | 14n56 | 1s35 | | | n.a. |

Julian Day Number = 1689827.5, Delta T = 03h11m04s
Ecliptic obliquity = 23°42'12, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°15'33, Lahiri = - 5°08'32 Julian Calendar 1 July 87 BCE == Greg. Calendar 29 June 087 BCE

The year -86 astronomical counting style corresponds to year 087 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 87 BCE
# geocentric

## AUGUST 87 BCE (-86) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 25 44 | 4♌43'22 | 14♈22 | 16♋32 | 16♍ 7 | 28♊16 | 27♊59 | 11♋54 | 20°R27 | 10♉51 | 14♉22 | 19♌37 | 20♌ 5 | 4♈20 | n.a. | T 1 |
| F 2 | 20 29 40 | 5°41'26 | 26°15 | 17°39 | 17°16 | 28°54 | 28°11 | 12° 1 | 20♓25 | 10°51 | 14°22 | 19°38 | 20° 2 | 4°26 | n.a. | F 2 |
| S 3 | 20 33 37 | 6°39'32 | 8♉15 | 18°52 | 18°25 | 29°32 | 28°23 | 12° 9 | 20°24 | 10°52 | 14°22 | 19°R38 | 19°59 | 4°33 | n.a. | S 3 |
| S 4 | 20 37 33 | 7°37'40 | 20°27 | 20°12 | 19°34 | 0♋10 | 28°34 | 12°16 | 20°22 | 10°52 | 14°23 | 19°38 | 19°55 | 4°40 | n.a. | S 4 |
| M 5 | 20 41 30 | 8°35'50 | 2♊56 | 21°36 | 20°43 | 0°48 | 28°46 | 12°23 | 20°21 | 10°53 | 14°23 | 19°37 | 19°52 | 4°46 | n.a. | M 5 |
| T 6 | 20 45 26 | 9°34'03 | 15°45 | 23° 6 | 21°51 | 1°26 | 28°58 | 12°30 | 20°19 | 10°53 | 14°23 | 19°36 | 19°49 | 4°53 | n.a. | T 6 |
| W 7 | 20 49 23 | 10°32'17 | 28°57 | 24°41 | 23° 0 | 2° 4 | 29° 9 | 12°38 | 20°17 | 10°53 | 14°23 | 19°35 | 19°46 | 5° 0 | n.a. | W 7 |
| T 8 | 20 53 20 | 11°30'34 | 12♋33 | 26°19 | 24° 9 | 2°41 | 29°21 | 12°45 | 20°16 | 10°54 | 14°24 | 19°34 | 19°43 | 5° 6 | n.a. | T 8 |
| F 9 | 20 57 16 | 12°28'53 | 26°31 | 28° 1 | 25°17 | 3°19 | 29°32 | 12°52 | 20°14 | 10°54 | 14°24 | 19°33 | 19°40 | 5°13 | n.a. | F 9 |
| S 10 | 21 1 13 | 13°27'13 | 10♌50 | 29°45 | 26°25 | 3°57 | 29°44 | 12°59 | 20°12 | 10°54 | 14°24 | 19°32 | 19°36 | 5°20 | n.a. | S 10 |
| S 11 | 21 5 9 | 14°25'36 | 25°24 | 1♌33 | 27°34 | 4°34 | 29°55 | 13° 6 | 20°10 | 10°55 | 14°24 | 19°D32 | 19°33 | 5°26 | n.a. | S 11 |
| M12 | 21 9 6 | 15°24'00 | 10♍ 8 | 3°22 | 28°42 | 5°12 | 0♋ 6 | 13°13 | 20° 8 | 10°55 | 14°24 | 19°33 | 19°30 | 5°33 | n.a. | M12 |
| T 13 | 21 13 2 | 16°22'26 | 24°53 | 5°13 | 29°50 | 5°49 | 0°18 | 13°20 | 20° 6 | 10°55 | 14°24 | 19°33 | 19°27 | 5°40 | n.a. | T 13 |
| W14 | 21 16 59 | 17°20'54 | 9♎35 | 7° 4 | 0♎58 | 6°27 | 0°29 | 13°27 | 20° 5 | 10°55 | 14°25 | 19°33 | 19°24 | 5°46 | n.a. | W14 |
| T 15 | 21 20 55 | 18°19'23 | 24° 6 | 8°57 | 2° 5 | 7° 4 | 0°40 | 13°33 | 20° 3 | 10°55 | 14°25 | 19°33 | 19°20 | 5°53 | n.a. | T 15 |
| F 16 | 21 24 52 | 19°17'55 | 8♏23 | 10°50 | 3°13 | 7°41 | 0°51 | 13°40 | 20° 1 | 10°55 | 14°25 | 19°33 | 19°17 | 6° 0 | n.a. | F 16 |
| S 17 | 21 28 49 | 20°16'28 | 22°23 | 12°44 | 4°21 | 8°19 | 1° 1 | 13°47 | 19°59 | 10°55 | 14°25 | 19°33 | 19°14 | 6° 6 | n.a. | S 17 |
| S 18 | 21 32 45 | 21°15'02 | 6♐ 6 | 14°38 | 5°28 | 8°56 | 1°12 | 13°54 | 19°57 | 10°R55 | 14°R25 | 19°33 | 19°11 | 6°13 | n.a. | S 18 |
| M19 | 21 36 42 | 22°13'39 | 19°31 | 16°31 | 6°35 | 9°33 | 1°23 | 14° 0 | 19°54 | 10°55 | 14°25 | 19°34 | 19° 8 | 6°20 | n.a. | M19 |
| T 20 | 21 40 38 | 23°12'17 | 2♑40 | 18°24 | 7°42 | 10°10 | 1°33 | 14° 7 | 19°52 | 10°55 | 14°25 | 19°34 | 19° 5 | 6°27 | n.a. | T 20 |
| W21 | 21 44 35 | 24°10'57 | 15°34 | 20°17 | 8°49 | 10°48 | 1°44 | 14°13 | 19°50 | 10°55 | 14°25 | 19°34 | 19° 1 | 6°33 | n.a. | W21 |
| T 22 | 21 48 31 | 25° 9'39 | 28°14 | 22° 9 | 9°56 | 11°25 | 1°54 | 14°20 | 19°48 | 10°55 | 14°25 | 19°35 | 18°58 | 6°40 | n.a. | T 22 |
| F 23 | 21 52 28 | 26° 8'23 | 10♒41 | 24° 0 | 11° 3 | 12° 2 | 2° 4 | 14°26 | 19°46 | 10°55 | 14°24 | 19°35 | 18°55 | 6°47 | n.a. | F 23 |
| S 24 | 21 56 24 | 27° 7'09 | 22°58 | 25°50 | 12° 9 | 12°39 | 2°15 | 14°33 | 19°44 | 10°55 | 14°24 | 19°R35 | 18°52 | 6°53 | n.a. | S 24 |
| S 25 | 22 0 21 | 28° 5'57 | 5♓ 5 | 27°40 | 13°16 | 13°15 | 2°25 | 14°39 | 19°42 | 10°54 | 14°24 | 19°35 | 18°49 | 7° 0 | n.a. | S 25 |
| M26 | 22 4 18 | 29° 4'47 | 17° 5 | 29°29 | 14°22 | 13°52 | 2°35 | 14°45 | 19°39 | 10°54 | 14°24 | 19°34 | 18°46 | 7° 7 | n.a. | M26 |
| T 27 | 22 8 14 | 0♍ 3'39 | 28°59 | 1♍17 | 15°28 | 14°29 | 2°45 | 14°52 | 19°37 | 10°54 | 14°24 | 19°33 | 18°42 | 7°13 | n.a. | T 27 |
| W28 | 22 12 11 | 1° 2'33 | 10♈49 | 3° 4 | 16°34 | 15° 6 | 2°54 | 14°58 | 19°35 | 10°54 | 14°24 | 19°31 | 18°39 | 7°20 | n.a. | W28 |
| T 29 | 22 16 7 | 2° 1'30 | 22°39 | 4°50 | 17°39 | 15°43 | 3° 4 | 15° 4 | 19°33 | 10°53 | 14°23 | 19°29 | 18°36 | 7°27 | n.a. | T 29 |
| F 30 | 22 20 4 | 3° 0'29 | 4♉32 | 6°36 | 18°45 | 16°19 | 3°14 | 15°10 | 19°30 | 10°53 | 14°23 | 19°28 | 18°33 | 7°33 | n.a. | F 30 |
| S 31 | 22 24 0 | 3♍59'30 | 16♉31 | 8♍20 | 19♎50 | 16♋56 | 3♋23 | 15♋16 | 19♓28 | 10♉52 | 14♉23 | 19♌26 | 18♌30 | 7♈40 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| T 1 | 19n18 | 1n45 | 4s19 | 22n16 | 0s24 | 5n44 | 0n13 | 24n24 | 0n42 | 23n44 | 0n 3 | 23n20 | 0n10 | 4s32 | 0s47 | 13n30 | 1s50 | 5n46 | 11s 3 | 15n 6 | 14n57 | 1s33 | | | n.a. |
| F 2 | 19 3 | 5 43 | 4 51 | 22 23 | 0 9 | 5 14 | 0 9 | 24 25 | 0 43 | 23 44 | 0 3 | 23 19 | 0 10 | 4 33 | 0 47 | 13 30 | 1 50 | 5 46 | 11 3 | 15 6 | 14 58 | 1 31 | | | n.a. |
| S 3 | 18 49 | 9 31 | 5 11 | 22 27 | 0n 5 | 4 43 | 0 5 | 24 26 | 0 44 | 23 44 | 0 3 | 23 19 | 0 10 | 4 33 | 0 47 | 13 30 | 1 50 | 5 45 | 11 3 | 15 5 | 14 59 | 1 29 | | | n.a. |
| S 4 | 18 34 | 12 58 | 5 17 | 22 29 | 0 19 | 4 12 | 0 2 | 24 27 | 0 44 | 23 45 | 0 3 | 23 18 | 0 10 | 4 34 | 0 47 | 13 30 | 1 50 | 5 45 | 11 4 | 15 6 | 15 0 | 1 27 | | | n.a. |
| M 5 | 18 19 | 15 56 | 5 8 | 22 28 | 0 31 | 3 41 | 0s 2 | 24 27 | 0 45 | 23 45 | 0 3 | 23 17 | 0 10 | 4 35 | 0 47 | 13 30 | 1 50 | 5 45 | 11 4 | 15 6 | 15 1 | 1 25 | | | n.a. |
| T 6 | 18 3 | 18 13 | 4 45 | 22 24 | 0 43 | 3 10 | 0 7 | 24 27 | 0 46 | 23 45 | 0 3 | 23 17 | 0 10 | 4 35 | 0 47 | 13 30 | 1 50 | 5 45 | 11 4 | 15 6 | 15 2 | 1 23 | | | n.a. |
| W 7 | 17 47 | 19 37 | 4 5 | 22 18 | 0 54 | 2 39 | 0 11 | 24 28 | 0 46 | 23 45 | 0 3 | 23 16 | 0 10 | 4 36 | 0 47 | 13 30 | 1 51 | 5 45 | 11 4 | 15 7 | 15 3 | 1 21 | | | n.a. |
| T 8 | 17 31 | 19 56 | 3 11 | 22 10 | 1 3 | 2 8 | 0 15 | 24 27 | 0 47 | 23 46 | 0 3 | 23 16 | 0 11 | 4 37 | 0 47 | 13 31 | 1 51 | 5 45 | 11 4 | 15 7 | 15 4 | 1 19 | | | n.a. |
| F 9 | 17 15 | 19 3 | 2 4 | 21 58 | 1 12 | 1 36 | 0 19 | 24 27 | 0 48 | 23 46 | 0 4 | 23 15 | 0 11 | 4 38 | 0 47 | 13 31 | 1 51 | 5 45 | 11 5 | 15 7 | 15 5 | 1 17 | | | n.a. |
| S 10 | 16 58 | 16 56 | 0 48 | 21 44 | 1 20 | 1 5 | 0 23 | 24 27 | 0 48 | 23 46 | 0 4 | 23 14 | 0 11 | 4 38 | 0 47 | 13 31 | 1 51 | 5 45 | 11 5 | 15 7 | 15 6 | 1 14 | | | n.a. |
| S 11 | 16 41 | 13 42 | 0n33 | 21 27 | 1 27 | 0 34 | 0 28 | 24 26 | 0 49 | 23 46 | 0 4 | 23 14 | 0 11 | 4 39 | 0 47 | 13 31 | 1 51 | 5 44 | 11 5 | 15 7 | 15 7 | 1 12 | | | n.a. |
| M12 | 16 24 | 9 35 | 1 52 | 21 7 | 1 32 | 0 2 | 0 32 | 24 26 | 0 50 | 23 46 | 0 4 | 23 13 | 0 11 | 4 40 | 0 47 | 13 31 | 1 51 | 5 44 | 11 5 | 15 7 | 15 8 | 1 10 | | | n.a. |
| T 13 | 16 6 | 4 52 | 3 4 | 20 45 | 1 37 | 0s29 | 0 36 | 24 25 | 0 50 | 23 46 | 0 4 | 23 13 | 0 11 | 4 41 | 0 47 | 13 31 | 1 51 | 5 44 | 11 5 | 15 7 | 15 9 | 1 8 | | | n.a. |
| W14 | 15 48 | 0s 6 | 4 4 | 20 20 | 1 41 | 1 0 | 0 41 | 24 24 | 0 51 | 23 46 | 0 4 | 23 12 | 0 11 | 4 41 | 0 47 | 13 31 | 1 51 | 5 44 | 11 6 | 15 7 | 15 10 | 1 6 | | | n.a. |
| T 15 | 15 30 | 5 0 | 4 47 | 19 54 | 1 44 | 1 32 | 0 45 | 24 22 | 0 52 | 23 46 | 0 4 | 23 12 | 0 11 | 4 42 | 0 47 | 13 31 | 1 51 | 5 44 | 11 6 | 15 7 | 15 11 | 1 4 | | | n.a. |
| F 16 | 15 12 | 9 32 | 5 12 | 19 25 | 1 47 | 2 3 | 0 50 | 24 21 | 0 52 | 23 46 | 0 4 | 23 11 | 0 11 | 4 43 | 0 47 | 13 31 | 1 51 | 5 44 | 11 6 | 15 7 | 15 12 | 1 2 | | | n.a. |
| S 17 | 14 53 | 13 27 | 5 17 | 18 54 | 1 48 | 2 34 | 0 54 | 24 19 | 0 53 | 23 46 | 0 4 | 23 10 | 0 11 | 4 44 | 0 47 | 13 31 | 1 51 | 5 43 | 11 6 | 15 7 | 15 13 | 1 0 | | | n.a. |
| S 18 | 14 34 | 16 34 | 5 4 | 18 22 | 1 49 | 3 6 | 0 59 | 24 17 | 0 54 | 23 46 | 0 5 | 23 10 | 0 12 | 4 45 | 0 47 | 13 30 | 1 51 | 5 43 | 11 6 | 15 7 | 15 14 | 0 58 | | | n.a. |
| M19 | 14 15 | 18 43 | 4 35 | 17 48 | 1 49 | 3 37 | 1 3 | 24 15 | 0 54 | 23 47 | 0 5 | 23 9 | 0 12 | 4 45 | 0 47 | 13 30 | 1 51 | 5 43 | 11 7 | 15 7 | 15 15 | 0 55 | | | n.a. |
| T 20 | 13 56 | 19 49 | 3 52 | 17 12 | 1 49 | 4 8 | 1 8 | 24 13 | 0 55 | 23 47 | 0 5 | 23 9 | 0 12 | 4 46 | 0 47 | 13 30 | 1 51 | 5 43 | 11 7 | 15 7 | 15 16 | 0 53 | | | n.a. |
| W21 | 13 36 | 19 50 | 2 58 | 16 35 | 1 47 | 4 39 | 1 13 | 24 11 | 0 56 | 23 46 | 0 5 | 23 8 | 0 12 | 4 47 | 0 47 | 13 30 | 1 51 | 5 43 | 11 7 | 15 7 | 15 17 | 0 51 | | | n.a. |
| T 22 | 13 17 | 18 51 | 1 56 | 15 57 | 1 46 | 5 10 | 1 17 | 24 8 | 0 56 | 23 46 | 0 5 | 23 7 | 0 12 | 4 48 | 0 47 | 13 30 | 1 51 | 5 42 | 11 7 | 15 7 | 15 18 | 0 49 | | | n.a. |
| F 23 | 12 57 | 16 58 | 0 49 | 15 18 | 1 43 | 5 41 | 1 22 | 24 6 | 0 57 | 23 46 | 0 5 | 23 7 | 0 12 | 4 49 | 0 47 | 13 30 | 1 51 | 5 42 | 11 7 | 15 6 | 15 19 | 0 47 | | | n.a. |
| S 24 | 12 36 | 14 18 | 0s19 | 14 37 | 1 41 | 6 11 | 1 27 | 24 3 | 0 58 | 23 46 | 0 5 | 23 6 | 0 12 | 4 50 | 0 47 | 13 30 | 1 52 | 5 42 | 11 8 | 15 6 | 15 20 | 0 45 | | | n.a. |
| S 25 | 12 16 | 11 4 | 1 25 | 13 56 | 1 38 | 6 42 | 1 32 | 24 0 | 0 58 | 23 46 | 0 5 | 23 6 | 0 12 | 4 51 | 0 47 | 13 30 | 1 52 | 5 42 | 11 8 | 15 6 | 15 21 | 0 43 | | | n.a. |
| M26 | 11 55 | 7 24 | 2 27 | 13 15 | 1 34 | 7 12 | 1 36 | 23 57 | 0 59 | 23 46 | 0 6 | 23 5 | 0 12 | 4 51 | 0 47 | 13 30 | 1 52 | 5 42 | 11 8 | 15 7 | 15 22 | 0 41 | | | n.a. |
| T 27 | 11 34 | 3 29 | 3 21 | 12 32 | 1 30 | 7 42 | 1 41 | 23 54 | 1 0 | 23 46 | 0 6 | 23 4 | 0 13 | 4 52 | 0 47 | 13 30 | 1 52 | 5 41 | 11 8 | 15 7 | 15 23 | 0 38 | | | n.a. |
| W28 | 11 13 | 0n33 | 4 7 | 11 49 | 1 26 | 8 12 | 1 46 | 23 50 | 1 0 | 23 46 | 0 6 | 23 4 | 0 13 | 4 53 | 0 47 | 13 29 | 1 52 | 5 41 | 11 8 | 15 8 | 15 24 | 0 36 | | | n.a. |
| T 29 | 10 52 | 4 32 | 4 42 | 11 6 | 1 21 | 8 42 | 1 51 | 23 47 | 1 1 | 23 46 | 0 6 | 23 3 | 0 13 | 4 54 | 0 47 | 13 29 | 1 52 | 5 41 | 11 9 | 15 8 | 15 25 | 0 34 | | | n.a. |
| F 30 | 10 31 | 8 23 | 5 6 | 10 22 | 1 16 | 9 12 | 1 56 | 23 43 | 1 2 | 23 46 | 0 6 | 23 3 | 0 13 | 4 55 | 0 47 | 13 29 | 1 52 | 5 41 | 11 9 | 15 9 | 15 26 | 0 32 | | | n.a. |
| S 31 | 10n 9 | 11n55 | 5s16 | 9n38 | 1n11 | 9s41 | 2s 0 | 23n39 | 1n 2 | 23n46 | 0n 6 | 23n 2 | 0n13 | 4s56 | 0s47 | 13n29 | 1s52 | 5n40 | 11s 9 | 15n 9 | 15n27 | 0s30 | | | n.a. |

Julian Day Number = 1689858.5, Delta T = 03h11m03s
Ecliptic obliquity = 23°42'13, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°15'28, Lahiri = - 5°08'28 Julian Calendar 1 Aug. 87 BCE == Greg. Calendar 30 July 087 BCE

The year -86 astronomical counting style corresponds to year 087 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 87 BCE
# geocentric

## SEPTEMBER 87 BCE (-86) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 22 27 57 | 4♍58'34 | 28♉41 | 10♍ 4 | 20♎55 | 17♋32 | 3♋33 | 15♋22 | 19°R26 | 10°R52 | 14°R23 | 19°R26 | 18♏26 | 7♈47 | n.a. | S 1 |
| M 2 | 22 31 53 | 5°57'40 | 11♊ 6 | 11°46 | 22° 0 | 18° 9 | 3°42 | 15°28 | 19♓23 | 10♉51 | 14♉22 | 19°D26 | 18°23 | 7°54 | n.a. | M 2 |
| T 3 | 22 35 50 | 6°56'49 | 23°50 | 13°28 | 23° 4 | 18°45 | 3°51 | 15°34 | 19°21 | 10°51 | 14°22 | 19♏26 | 18°20 | 8° 0 | n.a. | T 3 |
| W 4 | 22 39 46 | 7°56'00 | 6♋58 | 15° 9 | 24° 9 | 19°22 | 4° 0 | 15°39 | 19°19 | 10°50 | 14°22 | 19°27 | 18°17 | 8° 7 | n.a. | W 4 |
| T 5 | 22 43 43 | 8°55'13 | 20°31 | 16°49 | 25°13 | 19°58 | 4° 9 | 15°45 | 19°16 | 10°50 | 14°21 | 19°29 | 18°14 | 8°14 | n.a. | T 5 |
| F 6 | 22 47 40 | 9°54'29 | 4♏31 | 18°28 | 26°17 | 20°34 | 4°18 | 15°51 | 19°14 | 10°49 | 14°21 | 19°30 | 18°11 | 8°20 | n.a. | F 6 |
| S 7 | 22 51 36 | 10°53'47 | 18°57 | 20° 7 | 27°21 | 21°11 | 4°26 | 15°56 | 19°11 | 10°48 | 14°20 | 19°R30 | 18° 7 | 8°27 | n.a. | S 7 |
| S 8 | 22 55 33 | 11°53'07 | 3♍44 | 21°44 | 28°25 | 21°47 | 4°35 | 16° 2 | 19° 9 | 10°48 | 14°20 | 19°30 | 18° 4 | 8°34 | n.a. | S 8 |
| M 9 | 22 59 29 | 12°52'30 | 18°46 | 23°21 | 29°28 | 22°23 | 4°43 | 16° 7 | 19° 7 | 10°47 | 14°19 | 19°28 | 18° 1 | 8°40 | n.a. | M 9 |
| T 10 | 23 3 26 | 13°51'54 | 3♎55 | 24°57 | 0♏31 | 22°59 | 4°52 | 16°12 | 19° 4 | 10°46 | 14°19 | 19°26 | 17°58 | 8°47 | n.a. | T 10 |
| W11 | 23 7 22 | 14°51'21 | 19° 0 | 26°32 | 1°34 | 23°35 | 5° 0 | 16°17 | 19° 2 | 10°46 | 14°19 | 19°22 | 17°55 | 8°54 | n.a. | W11 |
| T 12 | 23 11 19 | 15°50'50 | 3♏52 | 28° 7 | 2°36 | 24°11 | 5° 8 | 16°23 | 18°59 | 10°45 | 14°18 | 19°19 | 17°51 | 9° 0 | n.a. | T 12 |
| F 13 | 23 15 15 | 16°50'20 | 18°25 | 29°41 | 3°39 | 24°47 | 5°16 | 16°28 | 18°57 | 10°44 | 14°17 | 19°15 | 17°48 | 9° 7 | n.a. | F 13 |
| S 14 | 23 19 12 | 17°49'52 | 2♐34 | 1♎14 | 4°40 | 25°23 | 5°23 | 16°33 | 18°54 | 10°43 | 14°17 | 19°13 | 17°45 | 9°14 | n.a. | S 14 |
| S 15 | 23 23 9 | 18°49'27 | 16°18 | 2°46 | 5°42 | 25°58 | 5°31 | 16°38 | 18°52 | 10°42 | 14°16 | 19°D12 | 17°42 | 9°21 | n.a. | S 15 |
| M16 | 23 27 5 | 19°49'03 | 29°38 | 4°18 | 6°43 | 26°34 | 5°38 | 16°42 | 18°49 | 10°41 | 14°16 | 19°13 | 17°39 | 9°27 | n.a. | M16 |
| T 17 | 23 31 2 | 20°48'41 | 12♑36 | 5°49 | 7°44 | 27°10 | 5°46 | 16°47 | 18°47 | 10°40 | 14°15 | 19°14 | 17°36 | 9°34 | n.a. | T 17 |
| W18 | 23 34 58 | 21°48'20 | 25°16 | 7°20 | 8°45 | 27°45 | 5°53 | 16°52 | 18°45 | 10°39 | 14°15 | 19°16 | 17°32 | 9°41 | n.a. | W18 |
| T 19 | 23 38 55 | 22°48'02 | 7♒40 | 8°49 | 9°45 | 28°21 | 6° 0 | 16°57 | 18°42 | 10°38 | 14°14 | 19°17 | 17°29 | 9°47 | n.a. | T 19 |
| F 20 | 23 42 51 | 23°47'45 | 19°52 | 10°18 | 10°45 | 28°56 | 6° 7 | 17° 1 | 18°40 | 10°37 | 14°13 | 19°R18 | 17°26 | 9°54 | n.a. | F 20 |
| S 21 | 23 46 48 | 24°47'30 | 1♓56 | 11°47 | 11°45 | 29°32 | 6°14 | 17° 5 | 18°37 | 10°36 | 14°13 | 19°17 | 17°23 | 10° 1 | n.a. | S 21 |
| S 22 | 23 50 44 | 25°47'18 | 13°54 | 13°14 | 12°44 | 0♏ 7 | 6°20 | 17°10 | 18°35 | 10°35 | 14°12 | 19°14 | 17°20 | 10° 7 | n.a. | S 22 |
| M23 | 23 54 41 | 26°47'07 | 25°47 | 14°41 | 13°43 | 0°42 | 6°27 | 17°14 | 18°32 | 10°34 | 14°11 | 19°10 | 17°17 | 10°14 | n.a. | M23 |
| T 24 | 23 58 37 | 27°46'58 | 7♈38 | 16° 8 | 14°41 | 1°17 | 6°33 | 17°18 | 18°30 | 10°33 | 14°10 | 19° 3 | 17°13 | 10°21 | n.a. | T 24 |
| W25 | 0 2 34 | 28°46'51 | 19°29 | 17°33 | 15°39 | 1°52 | 6°39 | 17°22 | 18°28 | 10°32 | 14°10 | 18°56 | 17°10 | 10°27 | n.a. | W25 |
| T 26 | 0 6 31 | 29°46'47 | 1♉21 | 18°58 | 16°36 | 2°27 | 6°45 | 17°26 | 18°25 | 10°31 | 14° 9 | 18°48 | 17° 7 | 10°34 | n.a. | T 26 |
| F 27 | 0 10 27 | 0♎46'45 | 13°16 | 20°22 | 17°33 | 3° 2 | 6°51 | 17°30 | 18°23 | 10°29 | 14° 8 | 18°40 | 17° 4 | 10°41 | n.a. | F 27 |
| S 28 | 0 14 24 | 1°46'44 | 25°18 | 21°45 | 18°30 | 3°37 | 6°57 | 17°34 | 18°21 | 10°28 | 14° 7 | 18°34 | 17° 1 | 10°48 | n.a. | S 28 |
| S 29 | 0 18 20 | 2°46'46 | 7♊28 | 23° 7 | 19°26 | 4°12 | 7° 2 | 17°38 | 18°18 | 10°27 | 14° 6 | 18°29 | 16°57 | 10°54 | n.a. | S 29 |
| M30 | 0 22 17 | 3♎46'51 | 19♊50 | 24♎28 | 20♏21 | 4♏47 | 7♋ 8 | 17♋41 | 18♓16 | 10♉26 | 14♉ 6 | 18♏25 | 16♏54 | 11♈ 1 | n.a. | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 9n47 | 15n 1 | 5s12 | 8n53 | 1n 6 | 10s11 | 2s 5 | 23n35 | 1n 3 | 23n46 | 0n 6 | 23n 1 | 0n13 | 4s57 | 0s47 | 13n29 | 1s52 | 5n40 | 11s 9 | 15n 9 | 15n28 | 0s28 | | n.a. |
| M 2 | 9 25 | 17 30 | 4 54 | 8 9 | 1 0 | 10 40 | 2 10 | 23 30 | 1 4 | 23 46 | 0 6 | 23 1 | 0 13 | 4 58 | 0 47 | 13 28 | 1 52 | 5 40 | 11 9 | 15 9 | 15 29 | 0 26 | | n.a. |
| T 3 | 9 3 | 19 13 | 4 21 | 7 24 | 0 54 | 11 9 | 2 15 | 23 26 | 1 4 | 23 45 | 0 7 | 23 0 | 0 13 | 4 59 | 0 47 | 13 28 | 1 52 | 5 39 | 11 9 | 15 9 | 15 30 | 0 24 | | n.a. |
| W 4 | 8 41 | 19 58 | 3 34 | 6 39 | 0 48 | 11 37 | 2 19 | 23 22 | 1 5 | 23 45 | 0 7 | 23 0 | 0 13 | 5 0 | 0 47 | 13 28 | 1 52 | 5 39 | 11 10 | 15 9 | 15 31 | 0 21 | | n.a. |
| T 5 | 8 19 | 19 36 | 2 33 | 5 54 | 0 42 | 12 6 | 2 24 | 23 17 | 1 6 | 23 45 | 0 7 | 22 59 | 0 14 | 5 1 | 0 47 | 13 28 | 1 52 | 5 39 | 11 10 | 15 8 | 15 32 | 0 19 | | n.a. |
| F 6 | 7 56 | 18 1 | 1 22 | 5 9 | 0 36 | 12 34 | 2 29 | 23 12 | 1 6 | 23 45 | 0 7 | 22 59 | 0 14 | 5 2 | 0 47 | 13 28 | 1 52 | 5 39 | 11 10 | 15 8 | 15 33 | 0 17 | | n.a. |
| S 7 | 7 34 | 15 16 | 0 3 | 4 24 | 0 29 | 13 2 | 2 34 | 23 7 | 1 7 | 23 45 | 0 7 | 22 58 | 0 14 | 5 3 | 0 47 | 13 27 | 1 52 | 5 38 | 11 10 | 15 8 | 15 34 | 0 15 | | n.a. |
| S 8 | 7 11 | 11 27 | 1n18 | 3 39 | 0 22 | 13 29 | 2 38 | 23 2 | 1 8 | 23 45 | 0 7 | 22 58 | 0 14 | 5 4 | 0 47 | 13 27 | 1 52 | 5 38 | 11 10 | 15 8 | 15 35 | 0 13 | | n.a. |
| M 9 | 6 48 | 6 51 | 2 34 | 2 55 | 0 16 | 13 56 | 2 43 | 22 57 | 1 8 | 23 44 | 0 7 | 22 57 | 0 14 | 5 5 | 0 47 | 13 27 | 1 52 | 5 38 | 11 11 | 15 9 | 15 36 | 0 11 | | n.a. |
| T 10 | 6 25 | 1 48 | 3 40 | 2 10 | 0 9 | 14 23 | 2 48 | 22 51 | 1 9 | 23 44 | 0 8 | 22 56 | 0 14 | 5 6 | 0 47 | 13 26 | 1 52 | 5 37 | 11 11 | 15 9 | 15 37 | 0 9 | | n.a. |
| W11 | 6 2 | 3s21 | 4 31 | 1 25 | 0 2 | 14 50 | 2 52 | 22 46 | 1 10 | 23 44 | 0 8 | 22 56 | 0 14 | 5 7 | 0 47 | 13 26 | 1 53 | 5 37 | 11 11 | 15 11 | 15 38 | 0 7 | | n.a. |
| T 12 | 5 38 | 8 12 | 5 3 | 0 41 | 0s 5 | 15 16 | 2 57 | 22 40 | 1 11 | 23 44 | 0 8 | 22 55 | 0 14 | 5 7 | 0 47 | 13 26 | 1 53 | 5 37 | 11 11 | 15 12 | 15 39 | 0 4 | | n.a. |
| F 13 | 5 15 | 12 28 | 5 14 | 0s 3 | 0 12 | 15 42 | 3 1 | 22 34 | 1 11 | 23 44 | 0 8 | 22 55 | 0 14 | 5 8 | 0 47 | 13 26 | 1 53 | 5 37 | 11 11 | 15 13 | 15 40 | 0 2 | | n.a. |
| S 14 | 4 52 | 15 55 | 5 5 | 0 47 | 0 18 | 16 8 | 3 6 | 22 29 | 1 12 | 23 44 | 0 8 | 22 54 | 0 15 | 5 9 | 0 47 | 13 25 | 1 53 | 5 36 | 11 11 | 15 13 | 15 41 | 0 0 | | n.a. |
| S 15 | 4 28 | 18 21 | 4 40 | 1 30 | 0 25 | 16 33 | 3 10 | 22 22 | 1 13 | 23 43 | 0 8 | 22 54 | 0 15 | 5 10 | 0 47 | 13 25 | 1 53 | 5 36 | 11 12 | 15 14 | 15 42 | 0n 2 | | n.a. |
| M16 | 4 5 | 19 43 | 3 59 | 2 13 | 0 32 | 16 58 | 3 15 | 22 16 | 1 13 | 23 43 | 0 8 | 22 53 | 0 15 | 5 11 | 0 47 | 13 25 | 1 53 | 5 36 | 11 12 | 15 14 | 15 43 | 0 4 | | n.a. |
| T 17 | 3 41 | 19 59 | 3 7 | 2 56 | 0 39 | 17 22 | 3 19 | 22 10 | 1 14 | 23 43 | 0 8 | 22 53 | 0 15 | 5 12 | 0 47 | 13 24 | 1 53 | 5 35 | 11 12 | 15 13 | 15 44 | 0 6 | | n.a. |
| W18 | 3 17 | 19 14 | 2 8 | 3 39 | 0 46 | 17 46 | 3 23 | 22 4 | 1 15 | 23 43 | 0 9 | 22 52 | 0 15 | 5 13 | 0 47 | 13 24 | 1 53 | 5 35 | 11 12 | 15 13 | 15 45 | 0 9 | | n.a. |
| T 19 | 2 53 | 17 32 | 1 3 | 4 21 | 0 53 | 18 10 | 3 27 | 21 57 | 1 15 | 23 43 | 0 9 | 22 52 | 0 15 | 5 14 | 0 47 | 13 24 | 1 53 | 5 35 | 11 12 | 15 12 | 15 46 | 0 11 | | n.a. |
| F 20 | 2 29 | 15 4 | 0s 3 | 5 3 | 1 0 | 18 33 | 3 32 | 21 50 | 1 16 | 23 43 | 0 9 | 22 52 | 0 15 | 5 15 | 0 47 | 13 23 | 1 53 | 5 34 | 11 12 | 15 12 | 15 47 | 0 13 | | n.a. |
| S 21 | 2 5 | 11 58 | 1 8 | 5 44 | 1 7 | 18 56 | 3 36 | 21 44 | 1 17 | 23 42 | 0 9 | 22 51 | 0 15 | 5 16 | 0 47 | 13 23 | 1 53 | 5 34 | 11 13 | 15 12 | 15 48 | 0 15 | | n.a. |
| S 22 | 1 42 | 8 24 | 2 10 | 6 25 | 1 14 | 19 19 | 3 40 | 21 37 | 1 18 | 23 42 | 0 9 | 22 51 | 0 15 | 5 17 | 0 47 | 13 22 | 1 53 | 5 34 | 11 13 | 15 13 | 15 49 | 0 17 | | n.a. |
| M23 | 1 17 | 4 31 | 3 5 | 7 5 | 1 20 | 19 41 | 3 43 | 21 30 | 1 18 | 23 42 | 0 9 | 22 50 | 0 16 | 5 18 | 0 47 | 13 22 | 1 53 | 5 33 | 11 13 | 15 14 | 15 50 | 0 19 | | n.a. |
| T 24 | 0 53 | 0 29 | 3 53 | 7 45 | 1 27 | 20 2 | 3 47 | 21 23 | 1 19 | 23 42 | 0 9 | 22 50 | 0 16 | 5 19 | 0 47 | 13 22 | 1 53 | 5 33 | 11 13 | 15 16 | 15 51 | 0 21 | | n.a. |
| W25 | 0 29 | 3n33 | 4 29 | 8 24 | 1 33 | 20 23 | 3 51 | 21 15 | 1 20 | 23 42 | 0 10 | 22 49 | 0 16 | 5 20 | 0 47 | 13 21 | 1 53 | 5 33 | 11 13 | 15 19 | 15 52 | 0 24 | | n.a. |
| T 26 | 0 5 | 7 28 | 4 55 | 9 2 | 1 40 | 20 44 | 3 55 | 21 8 | 1 20 | 23 42 | 0 10 | 22 49 | 0 16 | 5 21 | 0 47 | 13 21 | 1 53 | 5 32 | 11 13 | 15 21 | 15 53 | 0 26 | | n.a. |
| F 27 | 0s19 | 11 7 | 5 7 | 9 40 | 1 46 | 21 4 | 3 58 | 21 1 | 1 21 | 23 41 | 0 10 | 22 49 | 0 16 | 5 22 | 0 47 | 13 20 | 1 53 | 5 32 | 11 13 | 15 24 | 15 54 | 0 28 | | n.a. |
| S 28 | 0 43 | 14 20 | 5 7 | 10 17 | 1 52 | 21 23 | 4 2 | 20 53 | 1 22 | 23 41 | 0 10 | 22 48 | 0 16 | 5 23 | 0 47 | 13 20 | 1 53 | 5 32 | 11 13 | 15 26 | 15 55 | 0 30 | | n.a. |
| S 29 | 1 7 | 17 0 | 4 52 | 10 54 | 1 58 | 21 42 | 4 5 | 20 45 | 1 23 | 23 41 | 0 10 | 22 48 | 0 16 | 5 24 | 0 47 | 13 20 | 1 53 | 5 31 | 11 14 | 15 27 | 15 56 | 0 32 | | n.a. |
| M30 | 1s31 | 18n55 | 4s24 | 11s29 | 2s 3 | 22s 1 | 4s 8 | 20n38 | 1n23 | 23n41 | 0n10 | 22n47 | 0n16 | 5s25 | 0s47 | 13n19 | 1s53 | 5n31 | 11s14 | 15n28 | 15n57 | 0n34 | | n.a. |

Julian Day Number = 1689889.5, Delta T = 03h11m02s
Ecliptic obliquity = 23°42'13, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°15'24, Lahiri = - 5°08'24 Julian Calendar 1 Sept. 87 BCE == Greg. Calendar 30 Aug. 087 BCE


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# ASTRODIENST EPHEMERIS for the year 87 BCE
# geocentric

## OCTOBER 87 BCE (-86) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 26 13 | 4♎46'57 | 2♋29 | 25♎48 | 21♏16 | 5♌22 | 7♋13 | 17♋45 | 18°R14 | 10°R24 | 14°R 5 | 18°D24 | 16♌51 | 11♈ 8 | n.a. | T 1 |
| W 2 | 0 30 10 | 5°47'06 | 15°29 | 27° 7 | 22°10 | 5°56 | 7°18 | 17°48 | 18♓11 | 10♉23 | 14♉ 4 | 18♌25 | 16°48 | 11°14 | n.a. | W 2 |
| T 3 | 0 34 6 | 6°47'17 | 28°52 | 28°25 | 23° 4 | 6°31 | 7°23 | 17°52 | 18° 9 | 10°22 | 14° 3 | 18°26 | 16°45 | 11°21 | n.a. | T 3 |
| F 4 | 0 38 3 | 7°47'30 | 12♌42 | 29°41 | 23°57 | 7° 5 | 7°28 | 17°55 | 18° 7 | 10°20 | 14° 2 | 18°R27 | 16°42 | 11°28 | n.a. | F 4 |
| S 5 | 0 42 0 | 8°47'46 | 27° 1 | 0♏56 | 24°50 | 7°40 | 7°32 | 17°58 | 18° 4 | 10°19 | 14° 1 | 18°27 | 16°38 | 11°34 | n.a. | S 5 |
| S 6 | 0 45 56 | 9°48'03 | 11♍45 | 2°10 | 25°42 | 8°14 | 7°37 | 18° 1 | 18° 2 | 10°17 | 14° 0 | 18°24 | 16°35 | 11°41 | n.a. | S 6 |
| M 7 | 0 49 53 | 10°48'22 | 26°50 | 3°21 | 26°33 | 8°48 | 7°41 | 18° 4 | 18° 0 | 10°16 | 13°59 | 18°20 | 16°32 | 11°48 | n.a. | M 7 |
| T 8 | 0 53 49 | 11°48'44 | 12♎ 7 | 4°31 | 27°23 | 9°22 | 7°45 | 18° 7 | 17°58 | 10°15 | 13°58 | 18°13 | 16°29 | 11°55 | n.a. | T 8 |
| W 9 | 0 57 46 | 12°49'07 | 27°25 | 5°39 | 28°13 | 9°56 | 7°49 | 18° 9 | 17°56 | 10°13 | 13°58 | 18° 5 | 16°26 | 12° 1 | n.a. | W 9 |
| T 10 | 1 1 42 | 13°49'32 | 12♏34 | 6°44 | 29° 2 | 10°30 | 7°52 | 18°12 | 17°54 | 10°12 | 13°57 | 17°56 | 16°22 | 12° 8 | n.a. | T 10 |
| F 11 | 1 5 39 | 14°49'58 | 27°24 | 7°46 | 29°50 | 11° 4 | 7°56 | 18°15 | 17°51 | 10°10 | 13°56 | 17°48 | 16°19 | 12°15 | n.a. | F 11 |
| S 12 | 1 9 35 | 15°50'26 | 11♐47 | 8°45 | 0♐38 | 11°38 | 7°59 | 18°17 | 17°49 | 10° 9 | 13°55 | 17°41 | 16°16 | 12°21 | n.a. | S 12 |
| S 13 | 1 13 32 | 16°50'56 | 25°40 | 9°40 | 1°24 | 12°12 | 8° 2 | 18°19 | 17°47 | 10° 7 | 13°54 | 17°37 | 16°13 | 12°28 | n.a. | S 13 |
| M14 | 1 17 29 | 17°51'27 | 9♑ 5 | 10°32 | 2°10 | 12°45 | 8° 5 | 18°22 | 17°45 | 10° 6 | 13°53 | 17°35 | 16°10 | 12°35 | n.a. | M14 |
| T 15 | 1 21 25 | 18°51'59 | 22° 2 | 11°19 | 2°54 | 13°19 | 8° 8 | 18°24 | 17°43 | 10° 4 | 13°52 | 17°D34 | 16° 7 | 12°41 | n.a. | T 15 |
| W16 | 1 25 22 | 19°52'33 | 4♒37 | 12° 1 | 3°38 | 13°52 | 8°10 | 18°26 | 17°41 | 10° 3 | 13°51 | 17°35 | 16° 3 | 12°48 | n.a. | W16 |
| T 17 | 1 29 18 | 20°53'08 | 16°55 | 12°38 | 4°20 | 14°26 | 8°13 | 18°27 | 17°39 | 10° 1 | 13°49 | 17°R35 | 16° 0 | 12°55 | n.a. | T 17 |
| F 18 | 1 33 15 | 21°53'44 | 28°59 | 13° 8 | 5° 2 | 14°59 | 8°15 | 18°29 | 17°37 | 9°59 | 13°48 | 17°35 | 15°57 | 13° 2 | n.a. | F 18 |
| S 19 | 1 37 11 | 22°54'22 | 10♓55 | 13°32 | 5°42 | 15°32 | 8°17 | 18°31 | 17°36 | 9°58 | 13°47 | 17°32 | 15°54 | 13° 8 | n.a. | S 19 |
| S 20 | 1 41 8 | 23°55'01 | 22°47 | 13°48 | 6°21 | 16° 5 | 8°18 | 18°32 | 17°34 | 9°56 | 13°46 | 17°26 | 15°51 | 13°15 | n.a. | S 20 |
| M21 | 1 45 4 | 24°55'41 | 4♈37 | 13°R55 | 6°59 | 16°38 | 8°20 | 18°34 | 17°32 | 9°54 | 13°45 | 17°18 | 15°48 | 13°22 | n.a. | M21 |
| T 22 | 1 49 1 | 25°56'23 | 16°28 | 13°53 | 7°36 | 17°11 | 8°21 | 18°35 | 17°30 | 9°53 | 13°44 | 17° 7 | 15°44 | 13°28 | n.a. | T 22 |
| W23 | 1 52 57 | 26°57'06 | 28°21 | 13°41 | 8°11 | 17°44 | 8°23 | 18°36 | 17°28 | 9°51 | 13°43 | 16°54 | 15°41 | 13°35 | n.a. | W23 |
| T 24 | 1 56 54 | 27°57'51 | 10♉19 | 13°19 | 8°45 | 18°16 | 8°24 | 18°38 | 17°27 | 9°50 | 13°42 | 16°40 | 15°38 | 13°42 | n.a. | T 24 |
| F 25 | 2 0 51 | 28°58'37 | 22°21 | 12°46 | 9°17 | 18°49 | 8°24 | 18°39 | 17°25 | 9°48 | 13°41 | 16°27 | 15°35 | 13°48 | n.a. | F 25 |
| S 26 | 2 4 47 | 29°59'25 | 4♊30 | 12° 3 | 9°48 | 19°21 | 8°25 | 18°39 | 17°23 | 9°46 | 13°40 | 16°15 | 15°32 | 13°55 | n.a. | S 26 |
| S 27 | 2 8 44 | 1♏ 0'14 | 16°47 | 11° 9 | 10°18 | 19°54 | 8°25 | 18°40 | 17°22 | 9°45 | 13°39 | 16° 5 | 15°28 | 14° 2 | n.a. | S 27 |
| M28 | 2 12 40 | 2° 1'05 | 29°14 | 10° 6 | 10°45 | 20°26 | 8°26 | 18°41 | 17°20 | 9°43 | 13°37 | 15°58 | 15°25 | 14° 9 | n.a. | M28 |
| T 29 | 2 16 37 | 3° 1'57 | 11♋54 | 8°55 | 11°12 | 20°58 | 8°R26 | 18°41 | 17°19 | 9°41 | 13°36 | 15°54 | 15°22 | 14°15 | n.a. | T 29 |
| W30 | 2 20 33 | 4° 2'51 | 24°51 | 7°37 | 11°36 | 21°30 | 8°25 | 18°42 | 17°17 | 9°39 | 13°35 | 15°52 | 15°19 | 14°22 | n.a. | W30 |
| T 31 | 2 24 30 | 5♏ 3'46 | 8♌ 6 | 6♏16 | 11♐59 | 22♌ 2 | 8♋25 | 18♋42 | 17♓16 | 9♉38 | 13♉34 | 15♌52 | 15♌16 | 14♈29 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 1s55 | 19n59 | 3s42 | 12s 4 | 2s 9 | 22s19 | 4s11 | 20n30 | 1n24 | 23n41 | 0n11 | 22n47 | 0n17 | 5s25 | 0s47 | 13n19 | 1s53 | 5n30 | 11s14 | 15n29 | 15n57 | 0n37 | | | n.a. |
| W 2 | 2 19 | 20 0 | 2 48 | 12 38 | 2 14 | 22 36 | 4 14 | 20 22 | 1 25 | 23 41 | 0 11 | 22 47 | 0 17 | 5 26 | 0 47 | 13 18 | 1 53 | 5 30 | 11 14 | 15 29 | 15 58 | 0 39 | | | n.a. |
| T 3 | 2 43 | 18 55 | 1 44 | 13 11 | 2 19 | 22 53 | 4 17 | 20 14 | 1 26 | 23 41 | 0 11 | 22 46 | 0 17 | 5 27 | 0 47 | 13 18 | 1 53 | 5 30 | 11 14 | 15 28 | 15 59 | 0 41 | | | n.a. |
| F 4 | 3 7 | 16 41 | 0 31 | 13 43 | 2 23 | 23 10 | 4 20 | 20 6 | 1 26 | 23 40 | 0 11 | 22 46 | 0 17 | 5 28 | 0 47 | 13 17 | 1 53 | 5 29 | 11 14 | 15 28 | 16 0 | 0 43 | | | n.a. |
| S 5 | 3 31 | 13 22 | 0n46 | 14 14 | 2 28 | 23 26 | 4 23 | 19 58 | 1 27 | 23 40 | 0 11 | 22 46 | 0 17 | 5 29 | 0 47 | 13 17 | 1 53 | 5 29 | 11 14 | 15 28 | 16 1 | 0 45 | | | n.a. |
| S 6 | 3 55 | 9 7 | 2 2 | 14 43 | 2 31 | 23 41 | 4 25 | 19 49 | 1 28 | 23 40 | 0 11 | 22 46 | 0 17 | 5 30 | 0 47 | 13 16 | 1 54 | 5 29 | 11 14 | 15 29 | 16 2 | 0 47 | | | n.a. |
| M 7 | 4 19 | 4 12 | 3 11 | 15 12 | 2 35 | 23 56 | 4 27 | 19 41 | 1 29 | 23 40 | 0 11 | 22 45 | 0 17 | 5 31 | 0 47 | 13 16 | 1 54 | 5 28 | 11 14 | 15 30 | 16 3 | 0 49 | | | n.a. |
| T 8 | 4 43 | 1s 3 | 4 7 | 15 39 | 2 38 | 24 10 | 4 30 | 19 32 | 1 29 | 23 40 | 0 12 | 22 45 | 0 17 | 5 32 | 0 47 | 13 15 | 1 54 | 5 28 | 11 15 | 15 32 | 16 4 | 0 52 | | | n.a. |
| W 9 | 5 7 | 6 13 | 4 46 | 16 4 | 2 41 | 24 23 | 4 32 | 19 24 | 1 30 | 23 40 | 0 12 | 22 45 | 0 18 | 5 32 | 0 47 | 13 15 | 1 54 | 5 28 | 11 15 | 15 35 | 16 5 | 0 54 | | | n.a. |
| T 10 | 5 31 | 10 57 | 5 4 | 16 28 | 2 43 | 24 36 | 4 33 | 19 15 | 1 31 | 23 40 | 0 12 | 22 45 | 0 18 | 5 33 | 0 47 | 13 14 | 1 54 | 5 27 | 11 15 | 15 37 | 16 6 | 0 56 | | | n.a. |
| F 11 | 5 54 | 14 54 | 5 1 | 16 51 | 2 45 | 24 49 | 4 35 | 19 7 | 1 32 | 23 40 | 0 12 | 22 44 | 0 18 | 5 34 | 0 47 | 13 14 | 1 54 | 5 27 | 11 15 | 15 40 | 16 7 | 0 58 | | | n.a. |
| S 12 | 6 18 | 17 50 | 4 39 | 17 11 | 2 46 | 25 0 | 4 36 | 18 58 | 1 33 | 23 40 | 0 12 | 22 44 | 0 18 | 5 35 | 0 47 | 13 13 | 1 54 | 5 27 | 11 15 | 15 42 | 16 8 | 1 0 | | | n.a. |
| S 13 | 6 41 | 19 37 | 4 1 | 17 29 | 2 46 | 25 12 | 4 38 | 18 49 | 1 33 | 23 40 | 0 12 | 22 44 | 0 18 | 5 36 | 0 47 | 13 13 | 1 54 | 5 26 | 11 15 | 15 43 | 16 9 | 1 2 | | | n.a. |
| M14 | 7 5 | 20 13 | 3 11 | 17 46 | 2 45 | 25 22 | 4 39 | 18 40 | 1 34 | 23 40 | 0 13 | 22 44 | 0 18 | 5 36 | 0 47 | 13 12 | 1 54 | 5 26 | 11 15 | 15 44 | 16 10 | 1 5 | | | n.a. |
| T 15 | 7 28 | 19 42 | 2 12 | 17 59 | 2 44 | 25 32 | 4 40 | 18 31 | 1 35 | 23 40 | 0 13 | 22 44 | 0 18 | 5 37 | 0 47 | 13 12 | 1 54 | 5 25 | 11 15 | 15 44 | 16 11 | 1 7 | | | n.a. |
| W16 | 7 51 | 18 12 | 1 9 | 18 11 | 2 42 | 25 42 | 4 40 | 18 22 | 1 36 | 23 40 | 0 13 | 22 44 | 0 18 | 5 38 | 0 47 | 13 11 | 1 54 | 5 25 | 11 15 | 15 44 | 16 12 | 1 9 | | | n.a. |
| T 17 | 8 14 | 15 53 | 0 4 | 18 19 | 2 39 | 25 50 | 4 41 | 18 13 | 1 36 | 23 40 | 0 13 | 22 43 | 0 19 | 5 39 | 0 47 | 13 11 | 1 54 | 5 25 | 11 15 | 15 44 | 16 13 | 1 11 | | | n.a. |
| F 18 | 8 37 | 12 54 | 1s 0 | 18 24 | 2 34 | 25 58 | 4 41 | 18 4 | 1 37 | 23 40 | 0 13 | 22 43 | 0 19 | 5 39 | 0 47 | 13 10 | 1 54 | 5 24 | 11 15 | 15 44 | 16 14 | 1 13 | | | n.a. |
| S 19 | 9 0 | 9 25 | 2 1 | 18 26 | 2 29 | 26 6 | 4 41 | 17 55 | 1 38 | 23 40 | 0 13 | 22 43 | 0 19 | 5 40 | 0 47 | 13 10 | 1 54 | 5 24 | 11 15 | 15 45 | 16 15 | 1 16 | | | n.a. |
| S 20 | 9 23 | 5 35 | 2 56 | 18 25 | 2 22 | 26 13 | 4 41 | 17 46 | 1 39 | 23 40 | 0 14 | 22 43 | 0 19 | 5 41 | 0 47 | 13 9 | 1 54 | 5 24 | 11 15 | 15 47 | 16 16 | 1 18 | | | n.a. |
| M21 | 9 45 | 1 33 | 3 43 | 18 19 | 2 14 | 26 19 | 4 40 | 17 36 | 1 40 | 23 40 | 0 14 | 22 43 | 0 19 | 5 41 | 0 46 | 13 9 | 1 54 | 5 23 | 11 15 | 15 49 | 16 17 | 1 20 | | | n.a. |
| T 22 | 10 8 | 2n33 | 4 20 | 18 9 | 2 4 | 26 24 | 4 39 | 17 27 | 1 41 | 23 40 | 0 14 | 22 43 | 0 19 | 5 42 | 0 46 | 13 8 | 1 54 | 5 23 | 11 16 | 15 53 | 16 18 | 1 22 | | | n.a. |
| W23 | 10 30 | 6 34 | 4 46 | 17 55 | 1 53 | 26 29 | 4 38 | 17 18 | 1 41 | 23 40 | 0 14 | 22 43 | 0 19 | 5 43 | 0 46 | 13 8 | 1 54 | 5 23 | 11 16 | 15 57 | 16 19 | 1 24 | | | n.a. |
| T 24 | 10 52 | 10 21 | 4 59 | 17 36 | 1 40 | 26 33 | 4 37 | 17 8 | 1 42 | 23 40 | 0 14 | 22 43 | 0 20 | 5 43 | 0 46 | 13 7 | 1 54 | 5 22 | 11 16 | 16 1 | 16 20 | 1 26 | | | n.a. |
| F 25 | 11 14 | 13 44 | 4 59 | 17 11 | 1 25 | 26 37 | 4 35 | 16 59 | 1 43 | 23 40 | 0 14 | 22 43 | 0 20 | 5 44 | 0 46 | 13 7 | 1 54 | 5 22 | 11 16 | 16 5 | 16 21 | 1 29 | | | n.a. |
| S 26 | 11 36 | 16 35 | 4 46 | 16 43 | 1 9 | 26 40 | 4 33 | 16 49 | 1 44 | 23 41 | 0 15 | 22 43 | 0 20 | 5 45 | 0 46 | 13 6 | 1 54 | 5 22 | 11 16 | 16 9 | 16 21 | 1 31 | | | n.a. |
| S 27 | 11 57 | 18 44 | 4 19 | 16 9 | 0 51 | 26 42 | 4 30 | 16 40 | 1 45 | 23 41 | 0 15 | 22 43 | 0 20 | 5 45 | 0 46 | 13 6 | 1 54 | 5 21 | 11 16 | 16 12 | 16 22 | 1 33 | | | n.a. |
| M28 | 12 18 | 20 2 | 3 40 | 15 31 | 0 32 | 26 43 | 4 28 | 16 30 | 1 46 | 23 41 | 0 15 | 22 43 | 0 20 | 5 46 | 0 46 | 13 5 | 1 54 | 5 21 | 11 16 | 16 14 | 16 23 | 1 35 | | | n.a. |
| T 29 | 12 40 | 20 21 | 2 49 | 14 49 | 0 12 | 26 44 | 4 25 | 16 21 | 1 46 | 23 41 | 0 15 | 22 43 | 0 20 | 5 46 | 0 46 | 13 5 | 1 54 | 5 21 | 11 16 | 16 15 | 16 24 | 1 37 | | | n.a. |
| W30 | 13 0 | 19 37 | 1 49 | 14 4 | 0n 9 | 26 44 | 4 21 | 16 11 | 1 47 | 23 41 | 0 15 | 22 43 | 0 20 | 5 47 | 0 46 | 13 4 | 1 54 | 5 20 | 11 16 | 16 15 | 16 25 | 1 40 | | | n.a. |
| T 31 | 13s21 | 17n47 | 0s41 | 13s18 | 0n29 | 26s43 | 4s17 | 16n 1 | 1n48 | 23n41 | 0n16 | 22n43 | 0n21 | 5s47 | 0s46 | 13n 3 | 1s54 | 5n20 | 11s16 | 16n15 | 16n26 | 1n42 | | | n.a. |

Julian Day Number = 1689919.5, Delta T = 03h11m01s
Ecliptic obliquity = 23°42'14, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°15'20, Lahiri = - 5°08'20 Julian Calendar 1 Oct. 87 BCE == Greg. Calendar 29 Sept. 087 BCE

The year -86 astronomical counting style corresponds to year 087 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 87 BCE
# geocentric

## NOVEMBER 87 BCE (-86) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 2 28 26 | 6♏ 4'43 | 21♌45 | 4°R53 | 12♐19 | 22♌34 | 8°R24 | 18♋42 | 17°R15 | 9°R36 | 13°R33 | 15°R52 | 15♌13 | 14♈35 | n.a. | F 1 |
| S 2 | 2 32 23 | 7° 5'41 | 5♍48 | 3♏33 | 12°38 | 23° 5 | 8♋24 | 18°R43 | 17♓13 | 9♉34 | 13♉32 | 15♌50 | 15° 9 | 14°42 | n.a. | S 2 |
| S 3 | 2 36 20 | 8° 6'41 | 20°16 | 2°16 | 12°55 | 23°37 | 8°23 | 18°43 | 17°12 | 9°33 | 13°31 | 15°47 | 15° 6 | 14°49 | n.a. | S 3 |
| M 4 | 2 40 16 | 9° 7'42 | 5♎ 6 | 1° 6 | 13°10 | 24° 8 | 8°22 | 18°42 | 17°11 | 9°31 | 13°30 | 15°41 | 15° 3 | 14°55 | n.a. | M 4 |
| T 5 | 2 44 13 | 10° 8'44 | 20°13 | 0° 5 | 13°22 | 24°39 | 8°20 | 18°42 | 17° 9 | 9°29 | 13°28 | 15°32 | 15° 0 | 15° 2 | n.a. | T 5 |
| W 6 | 2 48 9 | 11° 9'47 | 5♏26 | 29♎14 | 13°33 | 25°11 | 8°19 | 18°42 | 17° 8 | 9°28 | 13°27 | 15°21 | 14°57 | 15° 9 | n.a. | W 6 |
| T 7 | 2 52 6 | 12°10'52 | 20°36 | 28°34 | 13°41 | 25°42 | 8°17 | 18°41 | 17° 7 | 9°26 | 13°26 | 15° 9 | 14°54 | 15°16 | n.a. | T 7 |
| F 8 | 2 56 2 | 13°11'57 | 5♐30 | 28° 6 | 13°47 | 26°12 | 8°15 | 18°41 | 17° 6 | 9°24 | 13°25 | 14°57 | 14°50 | 15°22 | n.a. | F 8 |
| S 9 | 2 59 59 | 14°13'03 | 20° 1 | 27°48 | 13°51 | 26°43 | 8°13 | 18°40 | 17° 5 | 9°22 | 13°24 | 14°47 | 14°47 | 15°29 | n.a. | S 9 |
| S 10 | 3 3 55 | 15°14'10 | 4♑ 4 | 27°D42 | 13°R52 | 27°14 | 8°10 | 18°39 | 17° 4 | 9°21 | 13°23 | 14°40 | 14°44 | 15°36 | n.a. | S 10 |
| M11 | 3 7 52 | 16°15'18 | 17°36 | 27°46 | 13°51 | 27°44 | 8° 8 | 18°38 | 17° 3 | 9°19 | 13°21 | 14°36 | 14°41 | 15°42 | n.a. | M11 |
| T 12 | 3 11 49 | 17°16'26 | 0♒40 | 28° 0 | 13°47 | 28°14 | 8° 5 | 18°37 | 17° 2 | 9°17 | 13°20 | 14°34 | 14°38 | 15°49 | n.a. | T 12 |
| W13 | 3 15 45 | 18°17'34 | 13°19 | 28°23 | 13°41 | 28°44 | 8° 2 | 18°36 | 17° 2 | 9°16 | 13°19 | 14°34 | 14°34 | 15°56 | n.a. | W13 |
| T 14 | 3 19 42 | 19°18'43 | 25°37 | 28°53 | 13°32 | 29°14 | 7°59 | 18°35 | 17° 1 | 9°14 | 13°18 | 14°34 | 14°31 | 16° 3 | n.a. | T 14 |
| F 15 | 3 23 38 | 20°19'53 | 7♓41 | 29°31 | 13°21 | 29°44 | 7°56 | 18°34 | 17° 0 | 9°12 | 13°17 | 14°33 | 14°28 | 16° 9 | n.a. | F 15 |
| S 16 | 3 27 35 | 21°21'02 | 19°35 | 0♏15 | 13° 7 | 0♍14 | 7°52 | 18°32 | 16°59 | 9°11 | 13°16 | 14°30 | 14°25 | 16°16 | n.a. | S 16 |
| S 17 | 3 31 31 | 22°22'12 | 1♈25 | 1° 5 | 12°51 | 0°43 | 7°48 | 18°31 | 16°59 | 9° 9 | 13°15 | 14°24 | 14°22 | 16°23 | n.a. | S 17 |
| M18 | 3 35 28 | 23°23'23 | 13°15 | 1°59 | 12°32 | 1°12 | 7°44 | 18°29 | 16°58 | 9° 7 | 13°13 | 14°15 | 14°19 | 16°29 | n.a. | M18 |
| T 19 | 3 39 25 | 24°24'33 | 25° 7 | 2°58 | 12°11 | 1°42 | 7°40 | 18°27 | 16°58 | 9° 6 | 13°12 | 14° 4 | 14°15 | 16°36 | n.a. | T 19 |
| W20 | 3 43 21 | 25°25'45 | 7♉ 5 | 4° 1 | 11°48 | 2°11 | 7°36 | 18°25 | 16°57 | 9° 4 | 13°11 | 13°51 | 14°12 | 16°43 | n.a. | W20 |
| T 21 | 3 47 18 | 26°26'56 | 19°10 | 5° 7 | 11°23 | 2°39 | 7°32 | 18°23 | 16°57 | 9° 3 | 13°10 | 13°36 | 14° 9 | 16°49 | n.a. | T 21 |
| F 22 | 3 51 14 | 27°28'08 | 1♊24 | 6°16 | 10°56 | 3° 8 | 7°27 | 18°21 | 16°56 | 9° 1 | 13° 9 | 13°22 | 14° 6 | 16°56 | n.a. | F 22 |
| S 23 | 3 55 11 | 28°29'21 | 13°46 | 7°28 | 10°26 | 3°36 | 7°22 | 18°19 | 16°56 | 8°59 | 13° 8 | 13° 9 | 14° 3 | 17° 3 | n.a. | S 23 |
| S 24 | 3 59 7 | 29°30'33 | 26°18 | 8°41 | 9°55 | 4° 5 | 7°17 | 18°17 | 16°56 | 8°58 | 13° 7 | 12°59 | 13°59 | 17°10 | n.a. | S 24 |
| M25 | 4 3 4 | 0♐31'47 | 8♋59 | 9°57 | 9°23 | 4°33 | 7°12 | 18°14 | 16°55 | 8°56 | 13° 6 | 12°51 | 13°56 | 17°16 | n.a. | M25 |
| T 26 | 4 7 0 | 1°33'01 | 21°51 | 11°15 | 8°49 | 5° 0 | 7° 7 | 18°12 | 16°55 | 8°55 | 13° 5 | 12°47 | 13°53 | 17°23 | n.a. | T 26 |
| W27 | 4 10 57 | 2°34'15 | 4♌56 | 12°34 | 8°14 | 5°28 | 7° 2 | 18° 9 | 16°55 | 8°53 | 13° 3 | 12°45 | 13°50 | 17°30 | n.a. | W27 |
| T 28 | 4 14 54 | 3°35'29 | 18°14 | 13°55 | 7°39 | 5°56 | 6°56 | 18° 7 | 16°55 | 8°52 | 13° 2 | 12°D45 | 13°47 | 17°36 | n.a. | T 28 |
| F 29 | 4 18 50 | 4°36'44 | 1♍49 | 15°16 | 7° 3 | 6°23 | 6°50 | 18° 4 | 16°D55 | 8°50 | 13° 1 | 12°R45 | 13°44 | 17°43 | n.a. | F 29 |
| S 30 | 4 22 47 | 5♐38'00 | 15♍42 | 16♏39 | 6♐26 | 6♍50 | 6♋45 | 18♋ 1 | 16♓55 | 8♉49 | 13♉ 0 | 12♌45 | 13♌40 | 17♈50 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 13 s42 | 14n54 | 0n31 | 12 s31 | 0n49 | 26 s42 | 4 s13 | 15n52 | 1n49 | 23n42 | 0n16 | 22n43 | 0n21 | 5 s48 | 0 s46 | 13n 3 | 1 s54 | 5n20 | 11 s16 | 16n15 | 16n27 | 1n44 | | n.a. |
| S 2 | 14 2 | 11 5 | 1 43 | 11 45 | 1 9 | 26 40 | 4 8 | 15 42 | 1 50 | 23 42 | 0 16 | 22 43 | 0 21 | 5 48 | 0 46 | 13 2 | 1 54 | 5 19 | 11 16 | 16 16 | 16 28 | 1 46 | | n.a. |
| S 3 | 14 22 | 6 31 | 2 51 | 11 2 | 1 27 | 26 37 | 4 3 | 15 32 | 1 51 | 23 42 | 0 16 | 22 44 | 0 21 | 5 49 | 0 46 | 13 2 | 1 54 | 5 19 | 11 16 | 16 17 | 16 29 | 1 48 | | n.a. |
| M 4 | 14 42 | 1 27 | 3 49 | 10 22 | 1 43 | 26 33 | 3 58 | 15 22 | 1 52 | 23 42 | 0 16 | 22 44 | 0 21 | 5 49 | 0 46 | 13 1 | 1 54 | 5 19 | 11 16 | 16 19 | 16 30 | 1 50 | | n.a. |
| T 5 | 15 1 | 3 s48 | 4 32 | 9 48 | 1 58 | 26 29 | 3 52 | 15 13 | 1 52 | 23 43 | 0 16 | 22 44 | 0 21 | 5 50 | 0 46 | 13 1 | 1 54 | 5 18 | 11 16 | 16 21 | 16 31 | 1 53 | | n.a. |
| W 6 | 15 21 | 8 50 | 4 56 | 9 18 | 2 10 | 26 24 | 3 45 | 15 3 | 1 53 | 23 43 | 0 17 | 22 44 | 0 21 | 5 50 | 0 46 | 13 0 | 1 54 | 5 18 | 11 16 | 16 25 | 16 32 | 1 55 | | n.a. |
| T 7 | 15 40 | 13 18 | 4 59 | 8 54 | 2 20 | 26 18 | 3 38 | 14 53 | 1 54 | 23 43 | 0 17 | 22 44 | 0 21 | 5 51 | 0 46 | 13 0 | 1 54 | 5 18 | 11 16 | 16 28 | 16 33 | 1 57 | | n.a. |
| F 8 | 15 58 | 16 51 | 4 41 | 8 36 | 2 28 | 26 11 | 3 31 | 14 43 | 1 55 | 23 44 | 0 17 | 22 45 | 0 22 | 5 51 | 0 46 | 12 59 | 1 54 | 5 17 | 11 16 | 16 32 | 16 34 | 1 59 | | n.a. |
| S 9 | 16 17 | 19 14 | 4 6 | 8 25 | 2 34 | 26 4 | 3 23 | 14 34 | 1 56 | 23 44 | 0 17 | 22 45 | 0 22 | 5 51 | 0 46 | 12 59 | 1 54 | 5 17 | 11 15 | 16 35 | 16 35 | 2 1 | | n.a. |
| S 10 | 16 35 | 20 22 | 3 16 | 8 18 | 2 39 | 25 56 | 3 14 | 14 24 | 1 57 | 23 44 | 0 17 | 22 45 | 0 22 | 5 52 | 0 46 | 12 58 | 1 54 | 5 17 | 11 15 | 16 37 | 16 36 | 2 4 | | n.a. |
| M11 | 16 53 | 20 16 | 2 17 | 8 17 | 2 41 | 25 47 | 3 5 | 14 14 | 1 58 | 23 45 | 0 18 | 22 45 | 0 22 | 5 52 | 0 46 | 12 58 | 1 54 | 5 17 | 11 15 | 16 38 | 16 37 | 2 6 | | n.a. |
| T 12 | 17 11 | 19 3 | 1 13 | 8 21 | 2 42 | 25 37 | 2 56 | 14 4 | 1 59 | 23 45 | 0 18 | 22 46 | 0 22 | 5 52 | 0 46 | 12 57 | 1 54 | 5 16 | 11 15 | 16 39 | 16 37 | 2 8 | | n.a. |
| W13 | 17 28 | 16 54 | 0 7 | 8 30 | 2 42 | 25 26 | 2 46 | 13 55 | 2 0 | 23 45 | 0 18 | 22 46 | 0 22 | 5 53 | 0 46 | 12 57 | 1 54 | 5 16 | 11 15 | 16 39 | 16 38 | 2 10 | | n.a. |
| T 14 | 17 45 | 14 2 | 0 s58 | 8 42 | 2 40 | 25 14 | 2 35 | 13 45 | 2 1 | 23 46 | 0 18 | 22 46 | 0 22 | 5 53 | 0 46 | 12 56 | 1 54 | 5 16 | 11 15 | 16 39 | 16 39 | 2 12 | | n.a. |
| F 15 | 18 2 | 10 37 | 1 59 | 8 58 | 2 38 | 25 2 | 2 24 | 13 35 | 2 2 | 23 46 | 0 18 | 22 46 | 0 23 | 5 53 | 0 46 | 12 56 | 1 54 | 5 15 | 11 15 | 16 39 | 16 40 | 2 15 | | n.a. |
| S 16 | 18 18 | 6 49 | 2 54 | 9 17 | 2 34 | 24 49 | 2 12 | 13 25 | 2 3 | 23 46 | 0 18 | 22 47 | 0 23 | 5 53 | 0 46 | 12 55 | 1 54 | 5 15 | 11 15 | 16 40 | 16 41 | 2 17 | | n.a. |
| S 17 | 18 34 | 2 48 | 3 41 | 9 38 | 2 30 | 24 35 | 2 0 | 13 16 | 2 4 | 23 47 | 0 19 | 22 47 | 0 23 | 5 54 | 0 46 | 12 54 | 1 54 | 5 15 | 11 15 | 16 41 | 16 42 | 2 19 | | n.a. |
| M18 | 18 50 | 1n20 | 4 18 | 10 1 | 2 25 | 24 20 | 1 48 | 13 6 | 2 5 | 23 47 | 0 19 | 22 48 | 0 23 | 5 54 | 0 46 | 12 54 | 1 54 | 5 15 | 11 15 | 16 44 | 16 43 | 2 21 | | n.a. |
| T 19 | 19 5 | 5 25 | 4 44 | 10 27 | 2 20 | 24 4 | 1 35 | 12 56 | 2 5 | 23 48 | 0 19 | 22 48 | 0 23 | 5 54 | 0 45 | 12 53 | 1 54 | 5 14 | 11 15 | 16 47 | 16 44 | 2 23 | | n.a. |
| W20 | 19 20 | 9 20 | 4 58 | 10 54 | 2 14 | 23 47 | 1 21 | 12 47 | 2 6 | 23 48 | 0 19 | 22 48 | 0 23 | 5 54 | 0 45 | 12 53 | 1 54 | 5 14 | 11 15 | 16 51 | 16 45 | 2 26 | | n.a. |
| T 21 | 19 34 | 12 55 | 4 59 | 11 22 | 2 8 | 23 30 | 1 7 | 12 37 | 2 7 | 23 49 | 0 19 | 22 49 | 0 23 | 5 54 | 0 45 | 12 52 | 1 54 | 5 14 | 11 15 | 16 55 | 16 46 | 2 28 | | n.a. |
| F 22 | 19 49 | 16 0 | 4 46 | 11 51 | 2 1 | 23 12 | 0 53 | 12 28 | 2 8 | 23 49 | 0 20 | 22 49 | 0 24 | 5 54 | 0 45 | 12 52 | 1 54 | 5 14 | 11 15 | 17 0 | 16 47 | 2 30 | | n.a. |
| S 23 | 20 3 | 18 25 | 4 19 | 12 21 | 1 54 | 22 53 | 0 38 | 12 18 | 2 9 | 23 49 | 0 20 | 22 50 | 0 24 | 5 55 | 0 45 | 12 52 | 1 54 | 5 14 | 11 14 | 17 3 | 16 48 | 2 32 | | n.a. |
| S 24 | 20 16 | 20 0 | 3 40 | 12 52 | 1 47 | 22 34 | 0 23 | 12 9 | 2 10 | 23 50 | 0 20 | 22 50 | 0 24 | 5 55 | 0 45 | 12 51 | 1 54 | 5 13 | 11 14 | 17 6 | 16 49 | 2 34 | | n.a. |
| M25 | 20 29 | 20 35 | 2 49 | 13 23 | 1 40 | 22 14 | 0 8 | 11 59 | 2 11 | 23 50 | 0 20 | 22 51 | 0 24 | 5 55 | 0 45 | 12 51 | 1 54 | 5 13 | 11 14 | 17 8 | 16 50 | 2 37 | | n.a. |
| T 26 | 20 42 | 20 7 | 1 48 | 13 54 | 1 33 | 21 53 | 0n 8 | 11 50 | 2 12 | 23 51 | 0 20 | 22 51 | 0 24 | 5 55 | 0 45 | 12 50 | 1 53 | 5 13 | 11 14 | 17 10 | 16 51 | 2 39 | | n.a. |
| W27 | 20 54 | 18 34 | 0 41 | 14 26 | 1 25 | 21 32 | 0 23 | 11 40 | 2 13 | 23 51 | 0 20 | 22 52 | 0 24 | 5 55 | 0 45 | 12 50 | 1 53 | 5 13 | 11 14 | 17 10 | 16 51 | 2 41 | | n.a. |
| T 28 | 21 6 | 16 0 | 0n29 | 14 57 | 1 18 | 21 11 | 0 39 | 11 31 | 2 15 | 23 52 | 0 21 | 22 52 | 0 24 | 5 55 | 0 45 | 12 49 | 1 53 | 5 12 | 11 14 | 17 10 | 16 52 | 2 43 | | n.a. |
| F 29 | 21 18 | 12 29 | 1 40 | 15 29 | 1 10 | 20 50 | 0 54 | 11 22 | 2 16 | 23 52 | 0 21 | 22 53 | 0 25 | 5 55 | 0 45 | 12 49 | 1 53 | 5 12 | 11 14 | 17 10 | 16 53 | 2 45 | | n.a. |
| S 30 | 21 s29 | 8n14 | 2n46 | 16 s 0 | 1n 2 | 20 s28 | 1n10 | 11n13 | 2n17 | 23n53 | 0n21 | 22n53 | 0n25 | 5 s55 | 0 s45 | 12n48 | 1 s53 | 5n12 | 11 s14 | 17n10 | 16n54 | 2n48 | | n.a. |

Julian Day Number = 1689950.5, Delta T = 03h11m00s
Ecliptic obliquity = 23°42'14, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°15'16, Lahiri = - 5°08'15 Julian Calendar 1 Nov. 87 BCE == Greg. Calendar 30 Oct. 087 BCE


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# ASTRODIENST EPHEMERIS for the year 87 BCE
# geocentric

## DECEMBER 87 BCE (-86) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 4 26 43 | 6♐39'16 | 29♍54 | 18♏ 3 | 5°R49 | 7♍17 | 6°R39 | 17°R58 | 16♓55 | 8°R47 | 12°R59 | 12°R43 | 13♌37 | 17♈57 | n.a. | S 1 |
| M 2 | 4 30 40 | 7°40'32 | 14♎23 | 19°28 | 5♐13 | 7°43 | 6♋32 | 17♋55 | 16°55 | 8♉46 | 12♉58 | 12♌38 | 13°34 | 18° 3 | n.a. | M 2 |
| T 3 | 4 34 36 | 8°41'48 | 29° 6 | 20°53 | 4°37 | 8°10 | 6°26 | 17°52 | 16°55 | 8°44 | 12°57 | 12°31 | 13°31 | 18°10 | n.a. | T 3 |
| W 4 | 4 38 33 | 9°43'05 | 13♏56 | 22°19 | 4° 2 | 8°36 | 6°20 | 17°48 | 16°56 | 8°43 | 12°56 | 12°21 | 13°28 | 18°17 | n.a. | W 4 |
| T 5 | 4 42 29 | 10°44'21 | 28°46 | 23°46 | 3°27 | 9° 2 | 6°13 | 17°45 | 16°56 | 8°41 | 12°55 | 12°11 | 13°25 | 18°23 | n.a. | T 5 |
| F 6 | 4 46 26 | 11°45'38 | 13♐27 | 25°14 | 2°54 | 9°27 | 6° 7 | 17°42 | 16°56 | 8°40 | 12°54 | 12° 1 | 13°21 | 18°30 | n.a. | F 6 |
| S 7 | 4 50 23 | 12°46'54 | 27°51 | 26°42 | 2°22 | 9°53 | 6° 0 | 17°38 | 16°57 | 8°39 | 12°53 | 11°53 | 13°18 | 18°37 | n.a. | S 7 |
| S 8 | 4 54 19 | 13°48'11 | 11♑52 | 28°10 | 1°52 | 10°18 | 5°53 | 17°35 | 16°57 | 8°37 | 12°52 | 11°46 | 13°15 | 18°44 | n.a. | S 8 |
| M 9 | 4 58 16 | 14°49'26 | 25°27 | 29°39 | 1°23 | 10°43 | 5°46 | 17°31 | 16°58 | 8°36 | 12°51 | 11°43 | 13°12 | 18°50 | n.a. | M 9 |
| T 10 | 5 2 12 | 15°50'42 | 8♒35 | 1♐ 9 | 0°56 | 11° 7 | 5°39 | 17°27 | 16°58 | 8°35 | 12°50 | 11°D41 | 13° 9 | 18°57 | n.a. | T 10 |
| W11 | 5 6 9 | 16°51'56 | 21°19 | 2°39 | 0°31 | 11°32 | 5°31 | 17°23 | 16°59 | 8°34 | 12°49 | 11°42 | 13° 5 | 19° 4 | n.a. | W11 |
| T 12 | 5 10 5 | 17°53'10 | 3♓42 | 4°10 | 0° 9 | 11°56 | 5°24 | 17°20 | 17° 0 | 8°32 | 12°48 | 11°43 | 13° 2 | 19°10 | n.a. | T 12 |
| F 13 | 5 14 2 | 18°54'23 | 15°49 | 5°41 | 29♏48 | 12°19 | 5°17 | 17°16 | 17° 0 | 8°31 | 12°47 | 11°R44 | 12°59 | 19°17 | n.a. | F 13 |
| S 14 | 5 17 58 | 19°55'36 | 27°46 | 7°13 | 29°30 | 12°43 | 5° 9 | 17°12 | 17° 1 | 8°30 | 12°47 | 11°43 | 12°56 | 19°24 | n.a. | S 14 |
| S 15 | 5 21 55 | 20°56'48 | 9♈37 | 8°45 | 29°15 | 13° 6 | 5° 2 | 17° 8 | 17° 2 | 8°29 | 12°46 | 11°41 | 12°53 | 19°31 | n.a. | S 15 |
| M16 | 5 25 52 | 21°57'59 | 21°28 | 10°17 | 29° 2 | 13°29 | 4°54 | 17° 3 | 17° 3 | 8°28 | 12°45 | 11°37 | 12°50 | 19°37 | n.a. | M16 |
| T 17 | 5 29 48 | 22°59'09 | 3♉22 | 11°50 | 28°51 | 13°52 | 4°46 | 16°59 | 17° 4 | 8°26 | 12°44 | 11°30 | 12°46 | 19°44 | n.a. | T 17 |
| W18 | 5 33 45 | 24° 0'18 | 15°25 | 13°24 | 28°43 | 14°14 | 4°39 | 16°55 | 17° 5 | 8°25 | 12°43 | 11°22 | 12°43 | 19°51 | n.a. | W18 |
| T 19 | 5 37 41 | 25° 1'27 | 27°37 | 14°58 | 28°37 | 14°36 | 4°31 | 16°51 | 17° 6 | 8°24 | 12°42 | 11°13 | 12°40 | 19°57 | n.a. | T 19 |
| F 20 | 5 41 38 | 26° 2'35 | 10♊ 1 | 16°33 | 28°34 | 14°57 | 4°23 | 16°46 | 17° 7 | 8°23 | 12°41 | 11° 4 | 12°37 | 20° 4 | n.a. | F 20 |
| S 21 | 5 45 34 | 27° 3'42 | 22°38 | 18° 8 | 28°D33 | 15°19 | 4°15 | 16°42 | 17° 8 | 8°22 | 12°41 | 10°56 | 12°34 | 20°11 | n.a. | S 21 |
| S 22 | 5 49 31 | 28° 4'48 | 5♋28 | 19°43 | 28°34 | 15°40 | 4° 7 | 16°37 | 17° 9 | 8°21 | 12°40 | 10°49 | 12°31 | 20°18 | n.a. | S 22 |
| M23 | 5 53 28 | 29° 5'54 | 18°31 | 21°19 | 28°39 | 16° 0 | 3°59 | 16°33 | 17°10 | 8°20 | 12°39 | 10°45 | 12°27 | 20°24 | n.a. | M23 |
| T 24 | 5 57 24 | 0♌ 6'59 | 1♌45 | 22°56 | 28°45 | 16°21 | 3°51 | 16°28 | 17°11 | 8°19 | 12°38 | 10°43 | 12°24 | 20°31 | n.a. | T 24 |
| W25 | 6 1 21 | 1° 8'03 | 15°10 | 24°34 | 28°54 | 16°40 | 3°43 | 16°24 | 17°13 | 8°18 | 12°38 | 10°D43 | 12°21 | 20°38 | n.a. | W25 |
| T 26 | 6 5 17 | 2° 9'06 | 28°46 | 26°12 | 29° 5 | 17° 0 | 3°35 | 16°19 | 17°14 | 8°18 | 12°37 | 10°44 | 12°18 | 20°44 | n.a. | T 26 |
| F 27 | 6 9 14 | 3°10'09 | 12♍32 | 27°50 | 29°18 | 17°19 | 3°27 | 16°14 | 17°15 | 8°17 | 12°36 | 10°45 | 12°15 | 20°51 | n.a. | F 27 |
| S 28 | 6 13 10 | 4°11'11 | 26°28 | 29°29 | 29°33 | 17°38 | 3°19 | 16°10 | 17°17 | 8°16 | 12°36 | 10°46 | 12°11 | 20°58 | n.a. | S 28 |
| S 29 | 6 17 7 | 5°12'12 | 10♎34 | 1♌ 9 | 29°51 | 17°56 | 3°11 | 16° 5 | 17°18 | 8°15 | 12°35 | 10°R46 | 12° 8 | 21° 5 | n.a. | S 29 |
| M30 | 6 21 3 | 6°13'12 | 24°48 | 2°50 | 0♐10 | 18°14 | 3° 3 | 16° 0 | 17°20 | 8°14 | 12°34 | 10°45 | 12° 5 | 21°11 | n.a. | M30 |
| T 31 | 6 25 0 | 7♌14'12 | 9♏ 8 | 4♌31 | 0♐32 | 18♍32 | 2♋55 | 15♋55 | 17♓22 | 8♉14 | 12♉34 | 10♌42 | 12♌ 2 | 21♈18 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| S 1 | 21 s40 | 3n27 | 3n43 | 16 s31 | 0n55 | 20 s 7 | 1n25 | 11n 4 | 2n18 | 23n53 | 0n21 | 22n54 | 0n25 | 5 s55 | 0 s45 | 12n48 | 1 s53 | 5n12 | 11 s13 | 17n11 | 16n55 | 2n50 | | | n.a. |
| M 2 | 21 50 | 1 s37 | 4 28 | 17 2 | 0 47 | 19 45 | 1 41 | 10 54 | 2 19 | 23 54 | 0 21 | 22 54 | 0 25 | 5 54 | 0 45 | 12 47 | 1 53 | 5 12 | 11 13 | 17 12 | 16 56 | 2 52 | | | n.a. |
| T 3 | 22 0 | 6 41 | 4 55 | 17 32 | 0 39 | 19 24 | 1 56 | 10 45 | 2 20 | 23 54 | 0 22 | 22 55 | 0 25 | 5 54 | 0 45 | 12 47 | 1 53 | 5 12 | 11 13 | 17 14 | 16 57 | 2 54 | | | n.a. |
| W 4 | 22 9 | 11 22 | 5 3 | 18 2 | 0 32 | 19 3 | 2 10 | 10 37 | 2 21 | 23 55 | 0 22 | 22 55 | 0 25 | 5 54 | 0 45 | 12 47 | 1 53 | 5 11 | 11 13 | 17 17 | 16 58 | 2 56 | | | n.a. |
| T 5 | 22 18 | 15 23 | 4 51 | 18 32 | 0 24 | 18 43 | 2 24 | 10 28 | 2 22 | 23 55 | 0 22 | 22 56 | 0 25 | 5 54 | 0 45 | 12 46 | 1 53 | 5 11 | 11 13 | 17 20 | 16 59 | 2 59 | | | n.a. |
| F 6 | 22 27 | 18 22 | 4 19 | 19 1 | 0 17 | 18 23 | 2 38 | 10 19 | 2 23 | 23 56 | 0 22 | 22 56 | 0 26 | 5 54 | 0 45 | 12 46 | 1 53 | 5 11 | 11 13 | 17 23 | 17 0 | 3 1 | | | n.a. |
| S 7 | 22 35 | 20 9 | 3 32 | 19 29 | 0 9 | 18 4 | 2 52 | 10 10 | 2 24 | 23 56 | 0 22 | 22 57 | 0 26 | 5 54 | 0 45 | 12 45 | 1 53 | 5 11 | 11 13 | 17 25 | 17 1 | 3 3 | | | n.a. |
| S 8 | 22 43 | 20 38 | 2 32 | 19 56 | 0 2 | 17 45 | 3 4 | 10 2 | 2 25 | 23 57 | 0 22 | 22 58 | 0 26 | 5 54 | 0 45 | 12 45 | 1 53 | 5 11 | 11 12 | 17 27 | 17 2 | 3 5 | | | n.a. |
| M 9 | 22 50 | 19 53 | 1 26 | 20 23 | 0 s 5 | 17 27 | 3 17 | 9 53 | 2 26 | 23 57 | 0 23 | 22 58 | 0 26 | 5 53 | 0 45 | 12 45 | 1 53 | 5 11 | 11 12 | 17 28 | 17 2 | 3 7 | | | n.a. |
| T 10 | 22 57 | 18 3 | 0 17 | 20 49 | 0 12 | 17 10 | 3 29 | 9 45 | 2 28 | 23 58 | 0 23 | 22 59 | 0 26 | 5 53 | 0 45 | 12 44 | 1 53 | 5 11 | 11 12 | 17 28 | 17 3 | 3 10 | | | n.a. |
| W11 | 23 3 | 15 22 | 0 s51 | 21 14 | 0 19 | 16 54 | 3 40 | 9 36 | 2 29 | 23 58 | 0 23 | 23 0 | 0 26 | 5 53 | 0 45 | 12 44 | 1 53 | 5 11 | 11 12 | 17 28 | 17 4 | 3 12 | | | n.a. |
| T 12 | 23 9 | 12 3 | 1 55 | 21 38 | 0 26 | 16 39 | 3 50 | 9 28 | 2 30 | 23 59 | 0 23 | 23 0 | 0 26 | 5 52 | 0 45 | 12 43 | 1 53 | 5 10 | 11 12 | 17 28 | 17 5 | 3 14 | | | n.a. |
| F 13 | 23 14 | 8 18 | 2 53 | 22 1 | 0 32 | 16 25 | 4 0 | 9 20 | 2 31 | 23 59 | 0 23 | 23 1 | 0 26 | 5 52 | 0 45 | 12 43 | 1 53 | 5 10 | 11 12 | 17 28 | 17 6 | 3 16 | | | n.a. |
| S 14 | 23 19 | 4 17 | 3 42 | 22 24 | 0 39 | 16 12 | 4 9 | 9 12 | 2 32 | 24 0 | 0 23 | 23 1 | 0 27 | 5 52 | 0 44 | 12 43 | 1 53 | 5 10 | 11 11 | 17 28 | 17 7 | 3 19 | | | n.a. |
| S 15 | 23 23 | 0 8 | 4 21 | 22 45 | 0 45 | 16 1 | 4 18 | 9 4 | 2 33 | 24 0 | 0 24 | 23 2 | 0 27 | 5 51 | 0 44 | 12 42 | 1 53 | 5 10 | 11 11 | 17 28 | 17 8 | 3 21 | | | n.a. |
| M16 | 23 27 | 4n 0 | 4 49 | 23 5 | 0 51 | 15 50 | 4 26 | 8 56 | 2 34 | 24 0 | 0 24 | 23 3 | 0 27 | 5 51 | 0 44 | 12 42 | 1 53 | 5 10 | 11 11 | 17 30 | 17 9 | 3 23 | | | n.a. |
| T 17 | 23 31 | 8 1 | 5 4 | 23 24 | 0 57 | 15 40 | 4 34 | 8 48 | 2 36 | 24 1 | 0 24 | 23 3 | 0 27 | 5 51 | 0 44 | 12 42 | 1 53 | 5 10 | 11 11 | 17 31 | 17 10 | 3 25 | | | n.a. |
| W18 | 23 34 | 11 45 | 5 6 | 23 42 | 1 3 | 15 32 | 4 41 | 8 41 | 2 37 | 24 1 | 0 24 | 23 4 | 0 27 | 5 50 | 0 44 | 12 42 | 1 53 | 5 10 | 11 11 | 17 34 | 17 11 | 3 27 | | | n.a. |
| T 19 | 23 37 | 15 3 | 4 55 | 23 59 | 1 9 | 15 25 | 4 47 | 8 33 | 2 38 | 24 2 | 0 24 | 23 5 | 0 27 | 5 50 | 0 44 | 12 41 | 1 53 | 5 10 | 11 10 | 17 36 | 17 12 | 3 30 | | | n.a. |
| F 20 | 23 39 | 17 45 | 4 29 | 24 15 | 1 14 | 15 18 | 4 52 | 8 26 | 2 39 | 24 2 | 0 24 | 23 5 | 0 27 | 5 49 | 0 44 | 12 41 | 1 52 | 5 10 | 11 10 | 17 39 | 17 12 | 3 32 | | | n.a. |
| S 21 | 23 40 | 19 40 | 3 50 | 24 29 | 1 19 | 15 13 | 4 58 | 8 19 | 2 41 | 24 3 | 0 25 | 23 6 | 0 28 | 5 49 | 0 44 | 12 41 | 1 52 | 5 10 | 11 10 | 17 41 | 17 13 | 3 34 | | | n.a. |
| S 22 | 23 41 | 20 37 | 2 59 | 24 42 | 1 24 | 15 9 | 5 2 | 8 12 | 2 42 | 24 3 | 0 25 | 23 7 | 0 28 | 5 48 | 0 44 | 12 40 | 1 52 | 5 10 | 11 10 | 17 43 | 17 14 | 3 36 | | | n.a. |
| M23 | 23 42 | 20 28 | 1 57 | 24 54 | 1 29 | 15 6 | 5 6 | 8 5 | 2 43 | 24 3 | 0 25 | 23 7 | 0 28 | 5 48 | 0 44 | 12 40 | 1 52 | 5 10 | 11 10 | 17 44 | 17 15 | 3 38 | | | n.a. |
| T 24 | 23 42 | 19 12 | 0 48 | 25 4 | 1 33 | 15 4 | 5 10 | 7 58 | 2 44 | 24 4 | 0 25 | 23 8 | 0 28 | 5 47 | 0 44 | 12 40 | 1 52 | 5 10 | 11 9 | 17 44 | 17 16 | 3 41 | | | n.a. |
| W25 | 23 42 | 16 51 | 0n24 | 25 13 | 1 37 | 15 3 | 5 13 | 7 51 | 2 45 | 24 4 | 0 25 | 23 9 | 0 28 | 5 47 | 0 44 | 12 40 | 1 52 | 5 10 | 11 9 | 17 45 | 17 17 | 3 43 | | | n.a. |
| T 26 | 23 41 | 13 32 | 1 37 | 25 20 | 1 41 | 15 3 | 5 15 | 7 45 | 2 47 | 24 5 | 0 25 | 23 10 | 0 28 | 5 46 | 0 44 | 12 39 | 1 52 | 5 10 | 11 9 | 17 44 | 17 18 | 3 45 | | | n.a. |
| F 27 | 23 40 | 9 28 | 2 44 | 25 26 | 1 45 | 15 3 | 5 17 | 7 38 | 2 48 | 24 5 | 0 25 | 23 10 | 0 28 | 5 46 | 0 44 | 12 39 | 1 52 | 5 10 | 11 9 | 17 44 | 17 19 | 3 47 | | | n.a. |
| S 28 | 23 38 | 4 50 | 3 43 | 25 30 | 1 48 | 15 5 | 5 19 | 7 32 | 2 49 | 24 5 | 0 26 | 23 11 | 0 28 | 5 45 | 0 44 | 12 39 | 1 52 | 5 10 | 11 8 | 17 43 | 17 20 | 3 50 | | | n.a. |
| S 29 | 23 36 | 0 s 6 | 4 30 | 25 33 | 1 51 | 15 7 | 5 20 | 7 26 | 2 51 | 24 6 | 0 26 | 23 12 | 0 28 | 5 44 | 0 44 | 12 39 | 1 52 | 5 10 | 11 8 | 17 43 | 17 21 | 3 52 | | | n.a. |
| M30 | 23 33 | 5 4 | 5 0 | 25 34 | 1 54 | 15 10 | 5 21 | 7 20 | 2 52 | 24 6 | 0 26 | 23 12 | 0 29 | 5 44 | 0 44 | 12 39 | 1 52 | 5 10 | 11 8 | 17 44 | 17 22 | 3 54 | | | n.a. |
| T 31 | 23 s30 | 9 s46 | 5n12 | 25 s34 | 1 s56 | 15 s14 | 5n22 | 7n14 | 2n53 | 24n 6 | 0n26 | 23n13 | 0n29 | 5 s43 | 0 s44 | 12n38 | 1 s52 | 5n10 | 11 s 8 | 17n45 | 17n22 | 3n56 | | | n.a. |

Julian Day Number = 1689980.5, Delta T = 03h11m00s
Ecliptic obliquity = 23°42'13, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°15'12, Lahiri = - 5°08'11 Julian Calendar 1 Dec. 87 BCE == Greg. Calendar 29 Nov. 087 BCE

The year -86 astronomical counting style corresponds to year 087 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 86 BCE
# geocentric

## JANUARY 86 BCE (-85) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 6 28 57 | 8♑15'11 | 23♏30 | 6♑13 | 0♐55 | 18♍49 | 2°R47 | 15°R51 | 17♓23 | 8°R13 | 12°R33 | 10°R38 | 11♌59 | 21♈25 | n.a. | W 1 |
| T 2 | 6 32 53 | 9°16'09 | 7♐51 | 7°55 | 1°20 | 19° 5 | 2♋39 | 15♋46 | 17°25 | 8♉12 | 12♉33 | 10♌33 | 11°56 | 21°31 | n.a. | T 2 |
| F 3 | 6 36 50 | 10°17'06 | 22° 4 | 9°38 | 1°47 | 19°22 | 2°31 | 15°41 | 17°27 | 8°12 | 12°32 | 10°28 | 11°52 | 21°38 | n.a. | F 3 |
| S 4 | 6 40 46 | 11°18'02 | 6♑ 5 | 11°22 | 2°15 | 19°37 | 2°23 | 15°36 | 17°28 | 8°11 | 12°31 | 10°24 | 11°49 | 21°45 | n.a. | S 4 |
| S 5 | 6 44 43 | 12°18'57 | 19°49 | 13° 7 | 2°45 | 19°53 | 2°15 | 15°31 | 17°30 | 8°11 | 12°31 | 10°21 | 11°46 | 21°52 | n.a. | S 5 |
| M 6 | 6 48 39 | 13°19'50 | 3♒13 | 14°52 | 3°17 | 20° 7 | 2° 8 | 15°26 | 17°32 | 8°10 | 12°30 | 10°19 | 11°43 | 21°58 | n.a. | M 6 |
| T 7 | 6 52 36 | 14°20'42 | 16°17 | 16°38 | 3°50 | 20°22 | 2° 0 | 15°21 | 17°34 | 8°10 | 12°30 | 10°D19 | 11°40 | 22° 5 | n.a. | T 7 |
| W 8 | 6 56 32 | 15°21'32 | 29° 0 | 18°25 | 4°24 | 20°36 | 1°52 | 15°16 | 17°36 | 8° 9 | 12°30 | 10°20 | 11°37 | 22°12 | n.a. | W 8 |
| T 9 | 7 0 29 | 16°22'21 | 11♓25 | 20°12 | 5° 0 | 20°49 | 1°45 | 15°12 | 17°38 | 8° 9 | 12°29 | 10°22 | 11°33 | 22°18 | n.a. | T 9 |
| F 10 | 7 4 26 | 17°23'08 | 23°35 | 22° 0 | 5°37 | 21° 2 | 1°37 | 15° 7 | 17°40 | 8° 8 | 12°29 | 10°24 | 11°30 | 22°25 | n.a. | F 10 |
| S 11 | 7 8 22 | 18°23'54 | 5♈35 | 23°49 | 6°15 | 21°14 | 1°30 | 15° 2 | 17°42 | 8° 8 | 12°28 | 10°25 | 11°27 | 22°32 | n.a. | S 11 |
| S 12 | 7 12 19 | 19°24'37 | 17°28 | 25°37 | 6°55 | 21°25 | 1°22 | 14°57 | 17°44 | 8° 8 | 12°28 | 10°R26 | 11°24 | 22°39 | n.a. | S 12 |
| M13 | 7 16 15 | 20°25'19 | 29°20 | 27°27 | 7°35 | 21°37 | 1°15 | 14°52 | 17°46 | 8° 7 | 12°28 | 10°25 | 11°21 | 22°45 | n.a. | M13 |
| T 14 | 7 20 12 | 21°26'00 | 11♉16 | 29°16 | 8°17 | 21°47 | 1° 8 | 14°47 | 17°49 | 8° 7 | 12°27 | 10°24 | 11°17 | 22°52 | n.a. | T 14 |
| W15 | 7 24 8 | 22°26'38 | 23°19 | 1♒ 6 | 9° 0 | 21°57 | 1° 1 | 14°42 | 17°51 | 8° 7 | 12°27 | 10°22 | 11°14 | 22°59 | n.a. | W15 |
| T 16 | 7 28 5 | 23°27'15 | 5♊35 | 2°56 | 9°44 | 22° 7 | 0°54 | 14°37 | 17°53 | 8° 7 | 12°27 | 10°20 | 11°11 | 23° 5 | n.a. | T 16 |
| F 17 | 7 32 1 | 24°27'50 | 18° 5 | 4°45 | 10°29 | 22°16 | 0°47 | 14°33 | 17°55 | 8° 6 | 12°26 | 10°17 | 11° 8 | 23°12 | n.a. | F 17 |
| S 18 | 7 35 58 | 25°28'23 | 0♋53 | 6°34 | 11°15 | 22°24 | 0°40 | 14°28 | 17°58 | 8° 6 | 12°26 | 10°15 | 11° 5 | 23°19 | n.a. | S 18 |
| S 19 | 7 39 55 | 26°28'54 | 13°59 | 8°23 | 12° 1 | 22°31 | 0°34 | 14°23 | 18° 0 | 8° 6 | 12°26 | 10°13 | 11° 2 | 23°26 | n.a. | S 19 |
| M20 | 7 43 51 | 27°29'24 | 27°22 | 10°10 | 12°49 | 22°38 | 0°27 | 14°19 | 18° 3 | 8° 6 | 12°26 | 10°12 | 10°58 | 23°32 | n.a. | M20 |
| T 21 | 7 47 48 | 28°29'52 | 11♌ 1 | 11°56 | 13°37 | 22°45 | 0°21 | 14°14 | 18° 5 | 8°D 6 | 12°25 | 10°D12 | 10°55 | 23°39 | n.a. | T 21 |
| W22 | 7 51 44 | 29°30'18 | 24°54 | 13°41 | 14°27 | 22°51 | 0°15 | 14° 9 | 18° 7 | 8° 6 | 12°25 | 10°12 | 10°52 | 23°46 | n.a. | W22 |
| T 23 | 7 55 41 | 0♒30'42 | 8♍57 | 15°23 | 15°17 | 22°56 | 0° 9 | 14° 5 | 18°10 | 8° 6 | 12°25 | 10°13 | 10°49 | 23°52 | n.a. | T 23 |
| F 24 | 7 59 37 | 1°31'05 | 23° 8 | 17° 3 | 16° 8 | 23° 0 | 0° 3 | 14° 0 | 18°13 | 8° 6 | 12°25 | 10°14 | 10°46 | 23°59 | n.a. | F 24 |
| S 25 | 8 3 34 | 2°31'27 | 7♎22 | 18°39 | 16°59 | 23° 4 | 29♊57 | 13°56 | 18°15 | 8° 6 | 12°25 | 10°14 | 10°43 | 24° 6 | n.a. | S 25 |
| S 26 | 8 7 30 | 3°31'46 | 21°36 | 20°12 | 17°51 | 23° 7 | 29°51 | 13°51 | 18°18 | 8° 7 | 12°25 | 10°15 | 10°39 | 24°13 | n.a. | S 26 |
| M27 | 8 11 27 | 4°32'05 | 5♏49 | 21°41 | 18°44 | 23° 9 | 29°46 | 13°47 | 18°20 | 8° 7 | 12°25 | 10°R15 | 10°36 | 24°19 | n.a. | M27 |
| T 28 | 8 15 24 | 5°32'22 | 19°57 | 23° 4 | 19°38 | 23°11 | 29°41 | 13°42 | 18°23 | 8° 7 | 12°25 | 10°15 | 10°33 | 24°26 | n.a. | T 28 |
| W29 | 8 19 20 | 6°32'37 | 4♐ 0 | 24°23 | 20°32 | 23°12 | 29°35 | 13°38 | 18°26 | 8° 7 | 12°D25 | 10°14 | 10°30 | 24°33 | n.a. | W29 |
| T 30 | 8 23 17 | 7°32'51 | 17°53 | 25°35 | 21°27 | 23°R12 | 29°30 | 13°34 | 18°29 | 8° 8 | 12°25 | 10°14 | 10°27 | 24°39 | n.a. | T 30 |
| F 31 | 8 27 13 | 8♒33'03 | 1♑37 | 26♒40 | 22♐22 | 23♍11 | 29♊25 | 13♋29 | 18♓31 | 8♉ 8 | 12♉25 | 10♌14 | 10♌23 | 24♈46 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| W 1 | 23 s27 | 13 s57 | 5n 4 | 25 s31 | 1 s58 | 15 s19 | 5n22 | 7n 9 | 2n54 | 24n 7 | 0n26 | 23n14 | 0n29 | 5 s42 | 0 s44 | 12n38 | 1 s52 | 5n10 | 11 s 8 | 17n46 | 17n23 | 3n58 | | | n.a. |
| T 2 | 23 23 | 17 18 | 4 37 | 25 27 | 2 0 | 15 24 | 5 22 | 7 3 | 2 56 | 24 7 | 0 26 | 23 14 | 0 29 | 5 42 | 0 44 | 12 38 | 1 52 | 5 10 | 11 7 | 17 47 | 17 24 | 4 1 | | | n.a. |
| F 3 | 23 18 | 19 34 | 3 54 | 25 21 | 2 1 | 15 30 | 5 22 | 6 58 | 2 57 | 24 7 | 0 26 | 23 15 | 0 29 | 5 41 | 0 44 | 12 38 | 1 52 | 5 10 | 11 7 | 17 49 | 17 25 | 4 3 | | | n.a. |
| S 4 | 23 13 | 20 37 | 2 57 | 25 14 | 2 2 | 15 36 | 5 21 | 6 53 | 2 58 | 24 7 | 0 27 | 23 16 | 0 29 | 5 40 | 0 44 | 12 38 | 1 52 | 5 10 | 11 7 | 17 50 | 17 26 | 4 5 | | | n.a. |
| S 5 | 23 8 | 20 24 | 1 50 | 25 4 | 2 2 | 15 43 | 5 20 | 6 48 | 3 0 | 24 8 | 0 27 | 23 16 | 0 29 | 5 39 | 0 44 | 12 38 | 1 52 | 5 10 | 11 7 | 17 50 | 17 27 | 4 7 | | | n.a. |
| M 6 | 23 2 | 19 1 | 0 39 | 24 53 | 2 2 | 15 50 | 5 18 | 6 43 | 3 1 | 24 8 | 0 27 | 23 17 | 0 29 | 5 39 | 0 44 | 12 38 | 1 51 | 5 10 | 11 6 | 17 51 | 17 28 | 4 10 | | | n.a. |
| T 7 | 22 55 | 16 39 | 0 s33 | 24 40 | 2 1 | 15 58 | 5 17 | 6 39 | 3 2 | 24 8 | 0 27 | 23 18 | 0 30 | 5 38 | 0 44 | 12 38 | 1 51 | 5 11 | 11 6 | 17 51 | 17 29 | 4 12 | | | n.a. |
| W 8 | 22 48 | 13 31 | 1 41 | 24 24 | 2 0 | 16 6 | 5 15 | 6 35 | 3 4 | 24 8 | 0 27 | 23 19 | 0 30 | 5 37 | 0 43 | 12 37 | 1 51 | 5 11 | 11 6 | 17 51 | 17 30 | 4 14 | | | n.a. |
| T 9 | 22 41 | 9 52 | 2 43 | 24 7 | 1 59 | 16 14 | 5 13 | 6 31 | 3 5 | 24 9 | 0 27 | 23 19 | 0 30 | 5 36 | 0 43 | 12 37 | 1 51 | 5 11 | 11 6 | 17 50 | 17 30 | 4 16 | | | n.a. |
| F 10 | 22 34 | 5 52 | 3 36 | 23 48 | 1 57 | 16 23 | 5 11 | 6 27 | 3 6 | 24 9 | 0 27 | 23 20 | 0 30 | 5 35 | 0 43 | 12 37 | 1 51 | 5 11 | 11 5 | 17 50 | 17 31 | 4 18 | | | n.a. |
| S 11 | 22 25 | 1 43 | 4 19 | 23 27 | 1 54 | 16 32 | 5 8 | 6 23 | 3 8 | 24 9 | 0 27 | 23 21 | 0 30 | 5 35 | 0 43 | 12 37 | 1 51 | 5 11 | 11 5 | 17 49 | 17 32 | 4 21 | | | n.a. |
| S 12 | 22 17 | 2n28 | 4 50 | 23 4 | 1 51 | 16 41 | 5 6 | 6 20 | 3 9 | 24 9 | 0 28 | 23 21 | 0 30 | 5 34 | 0 43 | 12 37 | 1 51 | 5 11 | 11 5 | 17 49 | 17 33 | 4 23 | | | n.a. |
| M13 | 22 8 | 6 32 | 5 9 | 22 39 | 1 47 | 16 50 | 5 3 | 6 16 | 3 11 | 24 9 | 0 28 | 23 22 | 0 30 | 5 33 | 0 43 | 12 37 | 1 51 | 5 11 | 11 5 | 17 49 | 17 34 | 4 25 | | | n.a. |
| T 14 | 21 59 | 10 23 | 5 15 | 22 12 | 1 42 | 17 0 | 5 0 | 6 13 | 3 12 | 24 10 | 0 28 | 23 22 | 0 30 | 5 32 | 0 43 | 12 37 | 1 51 | 5 11 | 11 4 | 17 50 | 17 35 | 4 27 | | | n.a. |
| W15 | 21 49 | 13 51 | 5 7 | 21 43 | 1 37 | 17 10 | 4 56 | 6 11 | 3 13 | 24 10 | 0 28 | 23 23 | 0 30 | 5 31 | 0 43 | 12 37 | 1 51 | 5 12 | 11 4 | 17 50 | 17 36 | 4 30 | | | n.a. |
| T 16 | 21 38 | 16 47 | 4 45 | 21 12 | 1 31 | 17 19 | 4 53 | 6 8 | 3 15 | 24 10 | 0 28 | 23 24 | 0 30 | 5 30 | 0 43 | 12 37 | 1 51 | 5 12 | 11 4 | 17 51 | 17 37 | 4 32 | | | n.a. |
| F 17 | 21 28 | 19 1 | 4 10 | 20 40 | 1 25 | 17 29 | 4 50 | 6 6 | 3 16 | 24 10 | 0 28 | 23 24 | 0 31 | 5 29 | 0 43 | 12 37 | 1 51 | 5 12 | 11 3 | 17 51 | 17 38 | 4 34 | | | n.a. |
| S 18 | 21 17 | 20 21 | 3 21 | 20 5 | 1 18 | 17 39 | 4 46 | 6 4 | 3 17 | 24 10 | 0 28 | 23 25 | 0 31 | 5 28 | 0 43 | 12 37 | 1 51 | 5 12 | 11 3 | 17 52 | 17 38 | 4 36 | | | n.a. |
| S 19 | 21 5 | 20 38 | 2 20 | 19 30 | 1 10 | 17 49 | 4 42 | 6 2 | 3 19 | 24 10 | 0 28 | 23 26 | 0 31 | 5 27 | 0 43 | 12 37 | 1 51 | 5 12 | 11 3 | 17 53 | 17 39 | 4 39 | | | n.a. |
| M20 | 20 54 | 19 46 | 1 10 | 18 52 | 1 1 | 17 59 | 4 38 | 6 0 | 3 20 | 24 10 | 0 28 | 23 26 | 0 31 | 5 26 | 0 43 | 12 37 | 1 51 | 5 13 | 11 3 | 17 53 | 17 40 | 4 41 | | | n.a. |
| T 21 | 20 41 | 17 44 | 0n 5 | 18 14 | 0 52 | 18 9 | 4 34 | 5 59 | 3 21 | 24 11 | 0 28 | 23 27 | 0 31 | 5 25 | 0 43 | 12 37 | 1 50 | 5 13 | 11 2 | 17 53 | 17 41 | 4 43 | | | n.a. |
| W22 | 20 29 | 14 38 | 1 21 | 17 34 | 0 42 | 18 19 | 4 30 | 5 58 | 3 23 | 24 11 | 0 29 | 23 27 | 0 31 | 5 24 | 0 43 | 12 37 | 1 50 | 5 13 | 11 2 | 17 53 | 17 42 | 4 45 | | | n.a. |
| T 23 | 20 16 | 10 39 | 2 33 | 16 54 | 0 31 | 18 29 | 4 26 | 5 57 | 3 24 | 24 11 | 0 29 | 23 28 | 0 31 | 5 23 | 0 43 | 12 38 | 1 50 | 5 13 | 11 2 | 17 53 | 17 43 | 4 47 | | | n.a. |
| F 24 | 20 2 | 6 3 | 3 36 | 16 12 | 0 19 | 18 39 | 4 21 | 5 57 | 3 25 | 24 11 | 0 29 | 23 29 | 0 31 | 5 22 | 0 43 | 12 38 | 1 50 | 5 13 | 11 2 | 17 52 | 17 44 | 4 50 | | | n.a. |
| S 25 | 19 49 | 1 7 | 4 26 | 15 31 | 0 7 | 18 48 | 4 17 | 5 56 | 3 27 | 24 11 | 0 29 | 23 29 | 0 31 | 5 21 | 0 43 | 12 38 | 1 50 | 5 14 | 11 1 | 17 52 | 17 45 | 4 52 | | | n.a. |
| S 26 | 19 35 | 3 s52 | 5 0 | 14 49 | 0n 6 | 18 57 | 4 12 | 5 56 | 3 28 | 24 11 | 0 29 | 23 30 | 0 31 | 5 20 | 0 43 | 12 38 | 1 50 | 5 14 | 11 1 | 17 52 | 17 45 | 4 54 | | | n.a. |
| M27 | 19 20 | 8 38 | 5 16 | 14 8 | 0 19 | 19 7 | 4 7 | 5 57 | 3 29 | 24 11 | 0 29 | 23 30 | 0 31 | 5 19 | 0 43 | 12 38 | 1 50 | 5 14 | 11 1 | 17 52 | 17 46 | 4 56 | | | n.a. |
| T 28 | 19 6 | 12 54 | 5 13 | 13 27 | 0 33 | 19 16 | 4 3 | 5 57 | 3 31 | 24 11 | 0 29 | 23 31 | 0 32 | 5 18 | 0 43 | 12 38 | 1 50 | 5 14 | 11 0 | 17 52 | 17 47 | 4 59 | | | n.a. |
| W29 | 18 51 | 16 26 | 4 50 | 12 48 | 0 48 | 19 24 | 3 58 | 5 58 | 3 32 | 24 11 | 0 29 | 23 31 | 0 32 | 5 17 | 0 43 | 12 38 | 1 50 | 5 15 | 11 0 | 17 52 | 17 48 | 5 1 | | | n.a. |
| T 30 | 18 35 | 18 58 | 4 11 | 12 9 | 1 2 | 19 33 | 3 53 | 5 59 | 3 33 | 24 11 | 0 29 | 23 32 | 0 32 | 5 16 | 0 43 | 12 38 | 1 50 | 5 15 | 11 0 | 17 52 | 17 49 | 5 3 | | | n.a. |
| F 31 | 18 s19 | 20 s23 | 3n18 | 11 s33 | 1n17 | 19 s41 | 3n48 | 6n 0 | 3n34 | 24n11 | 0n29 | 23n32 | 0n32 | 5 s15 | 0 s43 | 12n39 | 1 s50 | 5n15 | 11 s 0 | 17n52 | 17n50 | 5n 5 | | | n.a. |

Julian Day Number = 1690011.5, Delta T = 03h10m59s
Ecliptic obliquity = 23°42'13, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°15'08, Lahiri = - 5°08'07 Julian Calendar 1 Jan. 86 BCE == Greg. Calendar 30 Dec. 087 BCE

The year -85 astronomical counting style corresponds to year 086 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 86 BCE
# geocentric

## FEBRUARY 86 BCE (-85) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 31 10 | 9♒33'13 | 15♉ 9 | 27♒38 | 23♐18 | 23°R10 | 29°R21 | 13°R25 | 18♓34 | 8♉ 8 | 12♉25 | 10°R14 | 10♌20 | 24♈53 | n.a. | S 1 |
| S 2 | 8 35 6 | 10°33'21 | 28°27 | 28°28 | 24°14 | 23♍ 8 | 29♊16 | 13♋21 | 18°37 | 8° 9 | 12°25 | 10°D14 | 10°17 | 25° 0 | n.a. | S 2 |
| M 3 | 8 39 3 | 11°33'28 | 11♒32 | 29°10 | 25°11 | 23° 5 | 29°12 | 13°17 | 18°40 | 8° 9 | 12°25 | 10°R14 | 10°14 | 25° 6 | n.a. | M 3 |
| T 4 | 8 42 59 | 12°33'33 | 24°21 | 29°43 | 26° 8 | 23° 1 | 29° 8 | 13°13 | 18°43 | 8°10 | 12°25 | 10♌14 | 10°11 | 25°13 | n.a. | T 4 |
| W 5 | 8 46 56 | 13°33'35 | 6♓55 | 0♓ 8 | 27° 6 | 22°57 | 29° 4 | 13° 9 | 18°46 | 8°10 | 12°25 | 10°13 | 10° 8 | 25°20 | n.a. | W 5 |
| T 6 | 8 50 53 | 14°33'35 | 19°16 | 0°23 | 28° 4 | 22°52 | 29° 0 | 13° 6 | 18°49 | 8°11 | 12°26 | 10°13 | 10° 4 | 25°26 | n.a. | T 6 |
| F 7 | 8 54 49 | 15°33'34 | 1♈25 | 0°R29 | 29° 3 | 22°46 | 28°56 | 13° 2 | 18°52 | 8°11 | 12°26 | 10°12 | 10° 1 | 25°33 | n.a. | F 7 |
| S 8 | 8 58 46 | 16°33'29 | 13°24 | 0°26 | 0♉ 2 | 22°39 | 28°53 | 12°58 | 18°55 | 8°12 | 12°26 | 10°12 | 9°58 | 25°40 | n.a. | S 8 |
| S 9 | 9 2 42 | 17°33'23 | 25°18 | 0°14 | 1° 2 | 22°31 | 28°49 | 12°55 | 18°58 | 8°12 | 12°26 | 10°11 | 9°55 | 25°47 | n.a. | S 9 |
| M10 | 9 6 39 | 18°33'14 | 7♉10 | 29♒54 | 2° 1 | 22°23 | 28°46 | 12°51 | 19° 1 | 8°13 | 12°26 | 10°10 | 9°52 | 25°53 | n.a. | M10 |
| T 11 | 9 10 35 | 19°33'04 | 19° 5 | 29°26 | 3° 2 | 22°14 | 28°43 | 12°48 | 19° 4 | 8°14 | 12°27 | 10°D10 | 9°49 | 26° 0 | n.a. | T 11 |
| W12 | 9 14 32 | 20°32'50 | 1♊ 8 | 28°51 | 4° 2 | 22° 4 | 28°41 | 12°44 | 19° 7 | 8°15 | 12°27 | 10°10 | 9°45 | 26° 7 | n.a. | W12 |
| T 13 | 9 18 28 | 21°32'35 | 13°22 | 28° 9 | 5° 3 | 21°53 | 28°38 | 12°41 | 19°10 | 8°15 | 12°27 | 10°11 | 9°42 | 26°14 | n.a. | T 13 |
| F 14 | 9 22 25 | 22°32'17 | 25°53 | 27°23 | 6° 4 | 21°42 | 28°36 | 12°38 | 19°13 | 8°16 | 12°28 | 10°12 | 9°39 | 26°20 | n.a. | F 14 |
| S 15 | 9 26 22 | 23°31'57 | 8♋43 | 26°32 | 7° 6 | 21°30 | 28°34 | 12°35 | 19°16 | 8°17 | 12°28 | 10°13 | 9°36 | 26°27 | n.a. | S 15 |
| S 16 | 9 30 18 | 24°31'34 | 21°56 | 25°38 | 8° 8 | 21°17 | 28°32 | 12°32 | 19°20 | 8°18 | 12°28 | 10°14 | 9°33 | 26°34 | n.a. | S 16 |
| M17 | 9 34 15 | 25°31'09 | 5♌32 | 24°42 | 9°10 | 21° 4 | 28°30 | 12°29 | 19°23 | 8°19 | 12°29 | 10°R15 | 9°29 | 26°40 | n.a. | M17 |
| T 18 | 9 38 11 | 26°30'42 | 19°31 | 23°46 | 10°12 | 20°49 | 28°28 | 12°26 | 19°26 | 8°20 | 12°29 | 10°15 | 9°26 | 26°47 | n.a. | T 18 |
| W19 | 9 42 8 | 27°30'13 | 3♍48 | 22°51 | 11°15 | 20°34 | 28°27 | 12°23 | 19°29 | 8°21 | 12°30 | 10°14 | 9°23 | 26°54 | n.a. | W19 |
| T 20 | 9 46 4 | 28°29'42 | 18°20 | 21°57 | 12°18 | 20°19 | 28°26 | 12°21 | 19°32 | 8°22 | 12°30 | 10°12 | 9°20 | 27° 1 | n.a. | T 20 |
| F 21 | 9 50 1 | 29°29'08 | 3♎ 0 | 21° 6 | 13°21 | 20° 2 | 28°25 | 12°18 | 19°36 | 8°23 | 12°31 | 10° 9 | 9°17 | 27° 7 | n.a. | F 21 |
| S 22 | 9 53 57 | 0♓28'33 | 17°41 | 20°19 | 14°25 | 19°45 | 28°24 | 12°16 | 19°39 | 8°24 | 12°31 | 10° 7 | 9°14 | 27°14 | n.a. | S 22 |
| S 23 | 9 57 54 | 1°27'56 | 2♏16 | 19°36 | 15°28 | 19°28 | 28°23 | 12°13 | 19°42 | 8°25 | 12°32 | 10° 4 | 9°10 | 27°21 | n.a. | S 23 |
| M24 | 10 1 50 | 2°27'16 | 16°41 | 18°58 | 16°32 | 19°10 | 28°23 | 12°11 | 19°46 | 8°26 | 12°32 | 10° 3 | 9° 7 | 27°27 | n.a. | M24 |
| T 25 | 10 5 47 | 3°26'36 | 0♐52 | 18°26 | 17°37 | 18°51 | 28°23 | 12° 9 | 19°49 | 8°27 | 12°33 | 10°D 2 | 9° 4 | 27°34 | n.a. | T 25 |
| W26 | 10 9 44 | 4°25'53 | 14°46 | 17°59 | 18°41 | 18°32 | 28°D23 | 12° 7 | 19°52 | 8°28 | 12°33 | 10° 2 | 9° 1 | 27°41 | n.a. | W26 |
| T 27 | 10 13 40 | 5°25'08 | 28°24 | 17°38 | 19°46 | 18°12 | 28°23 | 12° 5 | 19°56 | 8°29 | 12°34 | 10° 3 | 8°58 | 27°48 | n.a. | T 27 |
| F 28 | 10 17 37 | 6♓24'22 | 11♑47 | 17♒22 | 20♑51 | 17♍51 | 28♊23 | 12♋ 3 | 19♓59 | 8♉31 | 12♉35 | 10♌ 5 | 8♌54 | 27♈54 | n.a. | F 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 18s 3 | 20s36 | 2n15 | 10s59 | 1n33 | 19s49 | 3n43 | 6n 2 | 3n35 | 24n11 | 0n29 | 23n33 | 0n32 | 5s13 | 0s43 | 12n39 | 1s50 | 5n15 | 10s59 | 17n52 | 17n51 | 5n 8 | | n.a. |
| S 2 | 17 47 | 19 38 | 1 5 | 10 27 | 1 48 | 19 57 | 3 38 | 6 4 | 3 37 | 24 11 | 0 29 | 23 33 | 0 32 | 5 12 | 0 43 | 12 39 | 1 50 | 5 16 | 10 59 | 17 52 | 17 52 | 5 10 | | n.a. |
| M 3 | 17 30 | 17 38 | 0s 7 | 9 59 | 2 3 | 20 4 | 3 33 | 6 6 | 3 38 | 24 11 | 0 29 | 23 34 | 0 32 | 5 11 | 0 43 | 12 39 | 1 50 | 5 16 | 10 59 | 17 52 | 17 52 | 5 12 | | n.a. |
| T 4 | 17 13 | 14 46 | 1 18 | 9 33 | 2 17 | 20 11 | 3 28 | 6 9 | 3 39 | 24 12 | 0 29 | 23 34 | 0 32 | 5 10 | 0 43 | 12 39 | 1 50 | 5 16 | 10 59 | 17 52 | 17 53 | 5 14 | | n.a. |
| W 5 | 16 56 | 11 16 | 2 23 | 9 11 | 2 31 | 20 18 | 3 23 | 6 11 | 3 40 | 24 12 | 0 30 | 23 35 | 0 32 | 5 9 | 0 43 | 12 40 | 1 49 | 5 17 | 10 58 | 17 52 | 17 54 | 5 16 | | n.a. |
| T 6 | 16 39 | 7 21 | 3 20 | 8 53 | 2 45 | 20 24 | 3 18 | 6 14 | 3 41 | 24 12 | 0 30 | 23 35 | 0 32 | 5 8 | 0 43 | 12 40 | 1 49 | 5 17 | 10 58 | 17 53 | 17 55 | 5 19 | | n.a. |
| F 7 | 16 21 | 3 12 | 4 7 | 8 39 | 2 58 | 20 30 | 3 12 | 6 18 | 3 42 | 24 12 | 0 30 | 23 36 | 0 32 | 5 6 | 0 43 | 12 40 | 1 49 | 5 17 | 10 58 | 17 53 | 17 56 | 5 21 | | n.a. |
| S 8 | 16 3 | 1n 0 | 4 43 | 8 30 | 3 9 | 20 35 | 3 7 | 6 21 | 3 43 | 24 12 | 0 30 | 23 36 | 0 32 | 5 5 | 0 43 | 12 40 | 1 49 | 5 18 | 10 57 | 17 53 | 17 57 | 5 23 | | n.a. |
| S 9 | 15 45 | 5 9 | 5 6 | 8 24 | 3 19 | 20 40 | 3 2 | 6 25 | 3 44 | 24 12 | 0 30 | 23 36 | 0 32 | 5 4 | 0 43 | 12 41 | 1 49 | 5 18 | 10 57 | 17 53 | 17 58 | 5 25 | | n.a. |
| M10 | 15 26 | 9 4 | 5 16 | 8 23 | 3 28 | 20 45 | 2 56 | 6 29 | 3 45 | 24 12 | 0 30 | 23 37 | 0 33 | 5 3 | 0 43 | 12 41 | 1 49 | 5 18 | 10 57 | 17 53 | 17 58 | 5 28 | | n.a. |
| T 11 | 15 7 | 12 40 | 5 13 | 8 26 | 3 36 | 20 49 | 2 51 | 6 34 | 3 46 | 24 12 | 0 30 | 23 37 | 0 33 | 5 1 | 0 43 | 12 41 | 1 49 | 5 19 | 10 57 | 17 53 | 17 59 | 5 30 | | n.a. |
| W12 | 14 48 | 15 47 | 4 56 | 8 33 | 3 41 | 20 53 | 2 46 | 6 38 | 3 46 | 24 12 | 0 30 | 23 38 | 0 33 | 5 0 | 0 43 | 12 41 | 1 49 | 5 19 | 10 56 | 17 53 | 18 0 | 5 32 | | n.a. |
| T 13 | 14 29 | 18 16 | 4 25 | 8 44 | 3 45 | 20 56 | 2 40 | 6 43 | 3 47 | 24 12 | 0 30 | 23 38 | 0 33 | 4 59 | 0 42 | 12 42 | 1 49 | 5 19 | 10 56 | 17 53 | 18 1 | 5 34 | | n.a. |
| F 14 | 14 9 | 19 57 | 3 42 | 8 58 | 3 47 | 20 59 | 2 35 | 6 48 | 3 48 | 24 12 | 0 30 | 23 38 | 0 33 | 4 58 | 0 42 | 12 42 | 1 49 | 5 20 | 10 56 | 17 53 | 18 2 | 5 37 | | n.a. |
| S 15 | 13 49 | 20 39 | 2 46 | 9 15 | 3 47 | 21 1 | 2 30 | 6 54 | 3 48 | 24 12 | 0 30 | 23 39 | 0 33 | 4 56 | 0 42 | 12 42 | 1 49 | 5 20 | 10 56 | 17 53 | 18 3 | 5 39 | | n.a. |
| S 16 | 13 29 | 20 15 | 1 40 | 9 36 | 3 45 | 21 3 | 2 24 | 6 59 | 3 49 | 24 12 | 0 30 | 23 39 | 0 33 | 4 55 | 0 42 | 12 43 | 1 49 | 5 20 | 10 55 | 17 52 | 18 4 | 5 41 | | n.a. |
| M17 | 13 9 | 18 40 | 0 26 | 9 58 | 3 41 | 21 4 | 2 19 | 7 5 | 3 49 | 24 12 | 0 30 | 23 39 | 0 33 | 4 54 | 0 42 | 12 43 | 1 49 | 5 21 | 10 55 | 17 52 | 18 4 | 5 43 | | n.a. |
| T 18 | 12 49 | 15 56 | 0n51 | 10 22 | 3 35 | 21 5 | 2 14 | 7 11 | 3 50 | 24 12 | 0 30 | 23 40 | 0 33 | 4 53 | 0 42 | 12 43 | 1 49 | 5 21 | 10 55 | 17 52 | 18 5 | 5 46 | | n.a. |
| W19 | 12 28 | 12 11 | 2 6 | 10 48 | 3 27 | 21 6 | 2 8 | 7 18 | 3 50 | 24 12 | 0 30 | 23 40 | 0 33 | 4 51 | 0 42 | 12 44 | 1 49 | 5 22 | 10 54 | 17 52 | 18 6 | 5 48 | | n.a. |
| T 20 | 12 8 | 7 39 | 3 15 | 11 14 | 3 18 | 21 5 | 2 3 | 7 24 | 3 50 | 24 12 | 0 30 | 23 40 | 0 33 | 4 50 | 0 42 | 12 44 | 1 48 | 5 22 | 10 54 | 17 53 | 18 7 | 5 50 | | n.a. |
| F 21 | 11 47 | 2 38 | 4 11 | 11 40 | 3 7 | 21 5 | 1 58 | 7 31 | 3 51 | 24 12 | 0 30 | 23 41 | 0 33 | 4 49 | 0 42 | 12 45 | 1 48 | 5 22 | 10 54 | 17 54 | 18 8 | 5 52 | | n.a. |
| S 22 | 11 26 | 2s32 | 4 51 | 12 6 | 2 55 | 21 3 | 1 52 | 7 38 | 3 51 | 24 12 | 0 30 | 23 41 | 0 33 | 4 47 | 0 42 | 12 45 | 1 48 | 5 23 | 10 54 | 17 54 | 18 9 | 5 54 | | n.a. |
| S 23 | 11 4 | 7 31 | 5 12 | 12 32 | 2 42 | 21 1 | 1 47 | 7 45 | 3 51 | 24 12 | 0 30 | 23 41 | 0 33 | 4 46 | 0 42 | 12 45 | 1 48 | 5 23 | 10 53 | 17 55 | 18 10 | 5 57 | | n.a. |
| M24 | 10 43 | 12 1 | 5 13 | 12 57 | 2 29 | 20 59 | 1 42 | 7 52 | 3 51 | 24 12 | 0 30 | 23 42 | 0 33 | 4 45 | 0 42 | 12 46 | 1 48 | 5 24 | 10 53 | 17 55 | 18 10 | 5 59 | | n.a. |
| T 25 | 10 21 | 15 45 | 4 54 | 13 21 | 2 14 | 20 56 | 1 36 | 7 59 | 3 51 | 24 12 | 0 30 | 23 42 | 0 33 | 4 43 | 0 42 | 12 46 | 1 48 | 5 24 | 10 53 | 17 56 | 18 11 | 6 1 | | n.a. |
| W26 | 9 59 | 18 32 | 4 19 | 13 43 | 2 0 | 20 53 | 1 31 | 8 7 | 3 50 | 24 12 | 0 30 | 23 42 | 0 33 | 4 42 | 0 42 | 12 47 | 1 48 | 5 24 | 10 53 | 17 56 | 18 12 | 6 3 | | n.a. |
| T 27 | 9 38 | 20 12 | 3 29 | 14 3 | 1 45 | 20 49 | 1 26 | 8 14 | 3 50 | 24 12 | 0 31 | 23 42 | 0 34 | 4 41 | 0 42 | 12 47 | 1 48 | 5 25 | 10 52 | 17 55 | 18 13 | 6 6 | | n.a. |
| F 28 | 9s16 | 20s42 | 2n29 | 14s22 | 1n30 | 20s44 | 1n21 | 8n22 | 3n50 | 24n12 | 0n31 | 23n42 | 0n34 | 4s39 | 0s42 | 12n48 | 1s48 | 5n25 | 10s52 | 17n55 | 18n14 | 6n 8 | | n.a. |

Julian Day Number = 1690042.5, Delta T = 03h10m58s
Ecliptic obliquity = 23°42'14, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°15'03, Lahiri = - 5°08'03 Julian Calendar 1 Feb. 86 BCE == Greg. Calendar 30 Jan. 086 BCE

The year -85 astronomical counting style corresponds to year 086 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 86 BCE
# geocentric

## MARCH 86 BCE (-85) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 21 33 | 7♓23'34 | 24♉55 | 17°R13 | 21♉56 | 17°R31 | 28♊24 | 12°R 1 | 20♓ 2 | 8♉32 | 12♉35 | 10♌ 6 | 8♌51 | 28♈ 1 | n.a. | S 1 |
| S 2 | 10 25 30 | 8°22'43 | 7♒49 | 17°D 9 | 23° 1 | 17♍10 | 28°24 | 12♋ 0 | 20° 6 | 8°33 | 12°36 | 10°R 7 | 8°48 | 28° 8 | n.a. | S 2 |
| M 3 | 10 29 26 | 9°21'51 | 20°31 | 17♒11 | 24° 7 | 16°48 | 28°25 | 11°58 | 20° 9 | 8°34 | 12°37 | 10° 7 | 8°45 | 28°15 | n.a. | M 3 |
| T 4 | 10 33 23 | 10°20'57 | 3♓ 2 | 17°19 | 25°12 | 16°26 | 28°26 | 11°57 | 20°12 | 8°36 | 12°37 | 10° 5 | 8°42 | 28°21 | n.a. | T 4 |
| W 5 | 10 37 19 | 11°20'00 | 15°23 | 17°31 | 26°18 | 16° 4 | 28°28 | 11°55 | 20°16 | 8°37 | 12°38 | 10° 1 | 8°39 | 28°28 | n.a. | W 5 |
| T 6 | 10 41 16 | 12°19'01 | 27°34 | 17°49 | 27°24 | 15°42 | 28°29 | 11°54 | 20°19 | 8°39 | 12°39 | 9°56 | 8°35 | 28°35 | n.a. | T 6 |
| F 7 | 10 45 13 | 13°18'00 | 9♈37 | 18°11 | 28°30 | 15°19 | 28°31 | 11°53 | 20°23 | 8°40 | 12°40 | 9°50 | 8°32 | 28°41 | n.a. | F 7 |
| S 8 | 10 49 9 | 14°16'57 | 21°34 | 18°39 | 29°36 | 14°56 | 28°33 | 11°52 | 20°26 | 8°41 | 12°40 | 9°44 | 8°29 | 28°48 | n.a. | S 8 |
| S 9 | 10 53 6 | 15°15'52 | 3♉27 | 19°10 | 0♒43 | 14°33 | 28°35 | 11°51 | 20°29 | 8°43 | 12°41 | 9°38 | 8°26 | 28°55 | n.a. | S 9 |
| M10 | 10 57 2 | 16°14'44 | 15°19 | 19°46 | 1°49 | 14°10 | 28°37 | 11°50 | 20°33 | 8°44 | 12°42 | 9°33 | 8°23 | 29° 2 | n.a. | M10 |
| T 11 | 11 0 59 | 17°13'34 | 27°13 | 20°25 | 2°56 | 13°47 | 28°39 | 11°49 | 20°36 | 8°46 | 12°43 | 9°29 | 8°20 | 29° 8 | n.a. | T 11 |
| W12 | 11 4 55 | 18°12'22 | 9♊13 | 21° 9 | 4° 3 | 13°24 | 28°42 | 11°49 | 20°40 | 8°47 | 12°44 | 9°27 | 8°16 | 29°15 | n.a. | W12 |
| T 13 | 11 8 52 | 19°11'08 | 21°24 | 21°55 | 5°10 | 13° 2 | 28°45 | 11°48 | 20°43 | 8°49 | 12°45 | 9°D27 | 8°13 | 29°22 | n.a. | T 13 |
| F 14 | 11 12 48 | 20° 9'51 | 3♋51 | 22°46 | 6°17 | 12°39 | 28°48 | 11°48 | 20°47 | 8°51 | 12°46 | 9°27 | 8°10 | 29°28 | n.a. | F 14 |
| S 15 | 11 16 45 | 21° 8'31 | 16°38 | 23°39 | 7°24 | 12°16 | 28°51 | 11°48 | 20°50 | 8°52 | 12°46 | 9°29 | 8° 7 | 29°35 | n.a. | S 15 |
| S 16 | 11 20 41 | 22° 7'10 | 29°49 | 24°36 | 8°32 | 11°54 | 28°54 | 11°48 | 20°53 | 8°54 | 12°47 | 9°30 | 8° 4 | 29°42 | n.a. | S 16 |
| M17 | 11 24 38 | 23° 5'46 | 13♌28 | 25°35 | 9°39 | 11°32 | 28°57 | 11°D48 | 20°57 | 8°56 | 12°48 | 9°R30 | 8° 0 | 29°49 | n.a. | M17 |
| T 18 | 11 28 35 | 24° 4'20 | 27°33 | 26°37 | 10°47 | 11°10 | 29° 1 | 11°48 | 21° 0 | 8°57 | 12°49 | 9°29 | 7°57 | 29°55 | n.a. | T 18 |
| W19 | 11 32 31 | 25° 2'52 | 12♍ 4 | 27°42 | 11°55 | 10°49 | 29° 5 | 11°48 | 21° 4 | 8°59 | 12°50 | 9°26 | 7°54 | 0♉ 2 | n.a. | W19 |
| T 20 | 11 36 28 | 26° 1'21 | 26°56 | 28°49 | 13° 3 | 10°28 | 29° 9 | 11°48 | 21° 7 | 9° 1 | 12°51 | 9°20 | 7°51 | 0° 9 | n.a. | T 20 |
| F 21 | 11 40 24 | 26°59'49 | 11♎59 | 29°59 | 14°10 | 10° 7 | 29°13 | 11°48 | 21°11 | 9° 2 | 12°52 | 9°14 | 7°48 | 0°16 | n.a. | F 21 |
| S 22 | 11 44 21 | 27°58'14 | 27° 5 | 1♓11 | 15°19 | 9°47 | 29°17 | 11°49 | 21°14 | 9° 4 | 12°53 | 9° 6 | 7°45 | 0°22 | n.a. | S 22 |
| S 23 | 11 48 17 | 28°56'38 | 12♏ 4 | 2°26 | 16°27 | 9°27 | 29°22 | 11°50 | 21°17 | 9° 6 | 12°54 | 8°59 | 7°41 | 0°29 | n.a. | S 23 |
| M24 | 11 52 14 | 29°55'00 | 26°48 | 3°43 | 17°35 | 9° 8 | 29°26 | 11°50 | 21°21 | 9° 8 | 12°55 | 8°54 | 7°38 | 0°36 | n.a. | M24 |
| T 25 | 11 56 10 | 0♈53'21 | 11♐11 | 5° 1 | 18°43 | 8°49 | 29°31 | 11°51 | 21°24 | 9°10 | 12°56 | 8°50 | 7°35 | 0°42 | n.a. | T 25 |
| W26 | 12 0 7 | 1°51'40 | 25°10 | 6°22 | 19°52 | 8°31 | 29°36 | 11°52 | 21°28 | 9°11 | 12°57 | 8°48 | 7°32 | 0°49 | n.a. | W26 |
| T 27 | 12 4 4 | 2°49'57 | 8♑45 | 7°45 | 21° 1 | 8°13 | 29°41 | 11°53 | 21°31 | 9°13 | 12°58 | 8°D48 | 7°29 | 0°56 | n.a. | T 27 |
| F 28 | 12 8 0 | 3°48'13 | 21°58 | 9°10 | 22° 9 | 7°56 | 29°47 | 11°54 | 21°34 | 9°15 | 13° 0 | 8°49 | 7°25 | 1° 3 | n.a. | F 28 |
| S 29 | 12 11 57 | 4°46'27 | 4♒52 | 10°37 | 23°18 | 7°40 | 29°52 | 11°55 | 21°38 | 9°17 | 13° 1 | 8°R50 | 7°22 | 1° 9 | n.a. | S 29 |
| S 30 | 12 15 53 | 5°44'40 | 17°31 | 12° 6 | 24°27 | 7°24 | 29°58 | 11°57 | 21°41 | 9°19 | 13° 2 | 8°49 | 7°19 | 1°16 | n.a. | S 30 |
| M31 | 12 19 50 | 6♈42'51 | 29♒56 | 13♓37 | 25♒36 | 7♍ 9 | 0♋ 3 | 11♋58 | 21♓44 | 9♉21 | 13♉ 3 | 8♌47 | 7♌16 | 1♉23 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 8s53 | 20s 2 | 1n23 | 14s40 | 1n15 | 20s39 | 1n16 | 8n30 | 3n49 | 24n12 | 0n31 | 23n43 | 0n34 | 4s38 | 0s42 | 12n48 | 1s48 | 5n26 | 10s52 | 17n54 | 18n15 | 6n10 | | n.a. |
| S 2 | 8 31 | 18 19 | 0 13 | 14 55 | 1 0 | 20 33 | 1 11 | 8 38 | 3 49 | 24 12 | 0 31 | 23 43 | 0 34 | 4 37 | 0 42 | 12 49 | 1 48 | 5 26 | 10 52 | 17 54 | 18 15 | 6 12 | | n.a. |
| M 3 | 8 9 | 15 42 | 0s57 | 15 8 | 0 45 | 20 27 | 1 6 | 8 45 | 3 48 | 24 12 | 0 31 | 23 43 | 0 34 | 4 35 | 0 42 | 12 49 | 1 48 | 5 27 | 10 51 | 17 54 | 18 16 | 6 15 | | n.a. |
| T 4 | 7 46 | 12 24 | 2 2 | 15 20 | 0 31 | 20 20 | 1 1 | 8 53 | 3 47 | 24 12 | 0 31 | 23 43 | 0 34 | 4 34 | 0 42 | 12 49 | 1 48 | 5 27 | 10 51 | 17 55 | 18 17 | 6 17 | | n.a. |
| W 5 | 7 24 | 8 36 | 3 1 | 15 29 | 0 17 | 20 13 | 0 56 | 9 1 | 3 46 | 24 12 | 0 31 | 23 43 | 0 34 | 4 33 | 0 42 | 12 50 | 1 48 | 5 27 | 10 51 | 17 56 | 18 18 | 6 19 | | n.a. |
| T 6 | 7 1 | 4 30 | 3 50 | 15 36 | 0 3 | 20 5 | 0 51 | 9 9 | 3 45 | 24 12 | 0 31 | 23 44 | 0 34 | 4 31 | 0 42 | 12 50 | 1 48 | 5 28 | 10 51 | 17 57 | 18 19 | 6 21 | | n.a. |
| F 7 | 6 38 | 0 16 | 4 29 | 15 42 | 0s10 | 19 56 | 0 46 | 9 17 | 3 44 | 24 12 | 0 31 | 23 44 | 0 34 | 4 30 | 0 42 | 12 51 | 1 48 | 5 28 | 10 50 | 17 59 | 18 20 | 6 23 | | n.a. |
| S 8 | 6 15 | 3n56 | 4 55 | 15 45 | 0 22 | 19 47 | 0 41 | 9 25 | 3 43 | 24 13 | 0 31 | 23 44 | 0 34 | 4 29 | 0 42 | 12 52 | 1 48 | 5 29 | 10 50 | 18 1 | 18 21 | 6 26 | | n.a. |
| S 9 | 5 52 | 7 58 | 5 9 | 15 47 | 0 34 | 19 38 | 0 36 | 9 33 | 3 42 | 24 13 | 0 31 | 23 44 | 0 34 | 4 27 | 0 42 | 12 52 | 1 47 | 5 29 | 10 50 | 18 2 | 18 21 | 6 28 | | n.a. |
| M10 | 5 29 | 11 41 | 5 9 | 15 46 | 0 46 | 19 28 | 0 32 | 9 41 | 3 40 | 24 13 | 0 31 | 23 44 | 0 34 | 4 26 | 0 42 | 12 53 | 1 47 | 5 30 | 10 50 | 18 4 | 18 22 | 6 30 | | n.a. |
| T 11 | 5 6 | 14 57 | 4 56 | 15 44 | 0 57 | 19 17 | 0 27 | 9 48 | 3 39 | 24 13 | 0 31 | 23 44 | 0 34 | 4 24 | 0 42 | 12 53 | 1 47 | 5 30 | 10 49 | 18 5 | 18 23 | 6 32 | | n.a. |
| W12 | 4 43 | 17 38 | 4 30 | 15 40 | 1 7 | 19 6 | 0 22 | 9 56 | 3 37 | 24 13 | 0 31 | 23 44 | 0 34 | 4 23 | 0 42 | 12 54 | 1 47 | 5 31 | 10 49 | 18 5 | 18 24 | 6 35 | | n.a. |
| T 13 | 4 20 | 19 34 | 3 51 | 15 34 | 1 17 | 18 54 | 0 18 | 10 3 | 3 36 | 24 13 | 0 31 | 23 44 | 0 34 | 4 22 | 0 42 | 12 54 | 1 47 | 5 31 | 10 49 | 18 5 | 18 25 | 6 37 | | n.a. |
| F 14 | 3 56 | 20 38 | 3 1 | 15 26 | 1 26 | 18 42 | 0 13 | 10 10 | 3 34 | 24 13 | 0 31 | 23 44 | 0 34 | 4 20 | 0 42 | 12 55 | 1 47 | 5 32 | 10 49 | 18 5 | 18 26 | 6 39 | | n.a. |
| S 15 | 3 33 | 20 39 | 2 1 | 15 17 | 1 35 | 18 29 | 0 9 | 10 17 | 3 32 | 24 13 | 0 31 | 23 45 | 0 34 | 4 19 | 0 42 | 12 55 | 1 47 | 5 32 | 10 49 | 18 5 | 18 26 | 6 41 | | n.a. |
| S 16 | 3 10 | 19 34 | 0 52 | 15 5 | 1 43 | 18 15 | 0 5 | 10 24 | 3 30 | 24 13 | 0 31 | 23 45 | 0 34 | 4 18 | 0 42 | 12 56 | 1 47 | 5 33 | 10 48 | 18 4 | 18 27 | 6 44 | | n.a. |
| M17 | 2 46 | 17 18 | 0n21 | 14 52 | 1 51 | 18 1 | 0 0 | 10 31 | 3 28 | 24 13 | 0 31 | 23 45 | 0 34 | 4 16 | 0 42 | 12 56 | 1 47 | 5 33 | 10 48 | 18 4 | 18 28 | 6 46 | | n.a. |
| T 18 | 2 23 | 13 57 | 1 36 | 14 37 | 1 57 | 17 47 | 0s 4 | 10 38 | 3 26 | 24 13 | 0 31 | 23 45 | 0 34 | 4 15 | 0 42 | 12 57 | 1 47 | 5 33 | 10 48 | 18 5 | 18 29 | 6 48 | | n.a. |
| W19 | 1 59 | 9 40 | 2 47 | 14 20 | 2 4 | 17 32 | 0 8 | 10 44 | 3 24 | 24 13 | 0 31 | 23 45 | 0 34 | 4 14 | 0 42 | 12 58 | 1 47 | 5 34 | 10 48 | 18 5 | 18 30 | 6 50 | | n.a. |
| T 20 | 1 36 | 4 42 | 3 48 | 14 2 | 2 10 | 17 17 | 0 12 | 10 50 | 3 22 | 24 13 | 0 31 | 23 45 | 0 34 | 4 12 | 0 42 | 12 58 | 1 47 | 5 34 | 10 48 | 18 7 | 18 31 | 6 53 | | n.a. |
| F 21 | 1 12 | 0s36 | 4 33 | 13 42 | 2 15 | 17 1 | 0 16 | 10 56 | 3 20 | 24 13 | 0 31 | 23 45 | 0 34 | 4 11 | 0 42 | 12 59 | 1 47 | 5 35 | 10 47 | 18 9 | 18 31 | 6 55 | | n.a. |
| S 22 | 0 49 | 5 53 | 5 0 | 13 20 | 2 19 | 16 44 | 0 20 | 11 1 | 3 17 | 24 13 | 0 31 | 23 45 | 0 34 | 4 9 | 0 42 | 12 59 | 1 47 | 5 35 | 10 47 | 18 11 | 18 32 | 6 57 | | n.a. |
| S 23 | 0 25 | 10 46 | 5 7 | 12 57 | 2 24 | 16 28 | 0 24 | 11 7 | 3 15 | 24 13 | 0 31 | 23 45 | 0 35 | 4 8 | 0 42 | 13 0 | 1 47 | 5 36 | 10 47 | 18 13 | 18 33 | 6 59 | | n.a. |
| M24 | 0 2 | 14 55 | 4 52 | 12 32 | 2 27 | 16 10 | 0 28 | 11 12 | 3 12 | 24 13 | 0 31 | 23 45 | 0 35 | 4 7 | 0 42 | 13 1 | 1 47 | 5 36 | 10 47 | 18 14 | 18 34 | 7 1 | | n.a. |
| T 25 | 0n21 | 18 5 | 4 20 | 12 6 | 2 30 | 15 53 | 0 31 | 11 17 | 3 10 | 24 13 | 0 31 | 23 45 | 0 35 | 4 5 | 0 42 | 13 1 | 1 47 | 5 37 | 10 47 | 18 15 | 18 35 | 7 4 | | n.a. |
| W26 | 0 45 | 20 5 | 3 32 | 11 38 | 2 32 | 15 34 | 0 35 | 11 21 | 3 7 | 24 13 | 0 31 | 23 45 | 0 35 | 4 4 | 0 42 | 13 2 | 1 47 | 5 37 | 10 46 | 18 15 | 18 35 | 7 6 | | n.a. |
| T 27 | 1 8 | 20 51 | 2 34 | 11 8 | 2 34 | 15 16 | 0 39 | 11 26 | 3 5 | 24 13 | 0 31 | 23 44 | 0 35 | 4 3 | 0 42 | 13 3 | 1 47 | 5 38 | 10 46 | 18 15 | 18 36 | 7 8 | | n.a. |
| F 28 | 1 32 | 20 25 | 1 29 | 10 37 | 2 35 | 14 57 | 0 42 | 11 29 | 3 2 | 24 13 | 0 31 | 23 44 | 0 35 | 4 1 | 0 42 | 13 3 | 1 47 | 5 38 | 10 46 | 18 15 | 18 37 | 7 10 | | n.a. |
| S 29 | 1 55 | 18 55 | 0 21 | 10 4 | 2 36 | 14 37 | 0 45 | 11 33 | 2 59 | 24 13 | 0 31 | 23 44 | 0 35 | 4 0 | 0 42 | 13 4 | 1 47 | 5 39 | 10 46 | 18 15 | 18 38 | 7 13 | | n.a. |
| S 30 | 2 18 | 16 29 | 0s46 | 9 30 | 2 36 | 14 17 | 0 49 | 11 37 | 2 56 | 24 13 | 0 31 | 23 44 | 0 35 | 3 59 | 0 42 | 13 5 | 1 46 | 5 39 | 10 46 | 18 15 | 18 39 | 7 15 | | n.a. |
| M31 | 2n42 | 13s20 | 1s51 | 8s54 | 2s36 | 13s57 | 0s52 | 11n40 | 2n54 | 24n13 | 0n31 | 23n44 | 0n35 | 3s57 | 0s42 | 13n 5 | 1s46 | 5n40 | 10s45 | 18n16 | 18n40 | 7n17 | | n.a. |

Julian Day Number = 1690070.5, Delta T = 03h10m57s
Ecliptic obliquity = 23°42'14, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°14'59, Lahiri = - 5°07'59 Julian Calendar 1 March 86 BCE == Greg. Calendar 27 Feb. 086 BCE

The year -85 astronomical counting style corresponds to year 086 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 86 BCE
# geocentric

## APRIL 86 BCE (-85) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 23 46 | 7♈41'00 | 12♓12 | 15♓10 | 26♒45 | 6°R55 | 0♋ 9 | 12♋ 0 | 21♓48 | 9♉23 | 13♉ 4 | 8°R42 | 7♌13 | 1♉29 | n.a. | T 1 |
| W 2 | 12 27 43 | 8°39'08 | 24°19 | 16°45 | 27°54 | 6♍42 | 0°15 | 12° 1 | 21°51 | 9°25 | 13° 5 | 8♌35 | 7°10 | 1°36 | n.a. | W 2 |
| T 3 | 12 31 39 | 9°37'13 | 6♈21 | 18°21 | 29° 3 | 6°29 | 0°21 | 12° 3 | 21°54 | 9°27 | 13° 6 | 8°26 | 7° 6 | 1°43 | n.a. | T 3 |
| F 4 | 12 35 36 | 10°35'17 | 18°18 | 20° 0 | 0♓12 | 6°17 | 0°28 | 12° 5 | 21°58 | 9°29 | 13° 8 | 8°14 | 7° 3 | 1°50 | n.a. | F 4 |
| S 5 | 12 39 32 | 11°33'20 | 0♉11 | 21°40 | 1°22 | 6° 6 | 0°34 | 12° 7 | 22° 1 | 9°31 | 13° 9 | 8° 2 | 7° 0 | 1°56 | n.a. | S 5 |
| S 6 | 12 43 29 | 12°31'20 | 12° 3 | 23°22 | 2°31 | 5°55 | 0°41 | 12° 9 | 22° 4 | 9°33 | 13°10 | 7°50 | 6°57 | 2° 3 | n.a. | S 6 |
| M 7 | 12 47 26 | 13°29'19 | 23°55 | 25° 6 | 3°41 | 5°46 | 0°48 | 12°11 | 22° 7 | 9°35 | 13°11 | 7°40 | 6°54 | 2°10 | n.a. | M 7 |
| T 8 | 12 51 22 | 14°27'16 | 5♊49 | 26°52 | 4°50 | 5°37 | 0°55 | 12°13 | 22°11 | 9°37 | 13°12 | 7°32 | 6°51 | 2°17 | n.a. | T 8 |
| W 9 | 12 55 19 | 15°25'11 | 17°50 | 28°40 | 6° 0 | 5°29 | 1° 2 | 12°16 | 22°14 | 9°39 | 13°14 | 7°26 | 6°47 | 2°23 | n.a. | W 9 |
| T 10 | 12 59 15 | 16°23'04 | 29°59 | 0♈30 | 7° 9 | 5°22 | 1° 9 | 12°18 | 22°17 | 9°41 | 13°15 | 7°22 | 6°44 | 2°30 | n.a. | T 10 |
| F 11 | 13 3 12 | 17°20'55 | 12♋23 | 2°21 | 8°19 | 5°16 | 1°16 | 12°21 | 22°20 | 9°43 | 13°16 | 7°D21 | 6°41 | 2°37 | n.a. | F 11 |
| S 12 | 13 7 8 | 18°18'45 | 25° 6 | 4°15 | 9°29 | 5°10 | 1°23 | 12°24 | 22°23 | 9°45 | 13°17 | 7°21 | 6°38 | 2°43 | n.a. | S 12 |
| S 13 | 13 11 5 | 19°16'32 | 8♌11 | 6°10 | 10°39 | 5° 6 | 1°31 | 12°26 | 22°27 | 9°48 | 13°19 | 7°R21 | 6°35 | 2°50 | n.a. | S 13 |
| M14 | 13 15 1 | 20°14'18 | 21°44 | 8° 7 | 11°49 | 5° 2 | 1°39 | 12°29 | 22°30 | 9°50 | 13°20 | 7°21 | 6°31 | 2°57 | n.a. | M14 |
| T 15 | 13 18 58 | 21°12'02 | 5♍46 | 10° 6 | 12°59 | 4°59 | 1°47 | 12°32 | 22°33 | 9°52 | 13°21 | 7°18 | 6°28 | 3° 4 | n.a. | T 15 |
| W16 | 13 22 55 | 22° 9'44 | 20°16 | 12° 7 | 14° 9 | 4°56 | 1°54 | 12°35 | 22°36 | 9°54 | 13°23 | 7°13 | 6°25 | 3°10 | n.a. | W16 |
| T 17 | 13 26 51 | 23° 7'25 | 5♎12 | 14° 9 | 15°19 | 4°55 | 2° 3 | 12°38 | 22°39 | 9°56 | 13°24 | 7° 5 | 6°22 | 3°17 | n.a. | T 17 |
| F 18 | 13 30 48 | 24° 5'04 | 20°24 | 16°13 | 16°29 | 4°D54 | 2°11 | 12°42 | 22°42 | 9°58 | 13°25 | 6°56 | 6°19 | 3°24 | n.a. | F 18 |
| S 19 | 13 34 44 | 25° 2'42 | 5♏44 | 18°19 | 17°39 | 4°54 | 2°19 | 12°45 | 22°45 | 10° 0 | 13°26 | 6°45 | 6°16 | 3°30 | n.a. | S 19 |
| S 20 | 13 38 41 | 26° 0'18 | 20°59 | 20°26 | 18°49 | 4°55 | 2°27 | 12°48 | 22°48 | 10° 3 | 13°28 | 6°35 | 6°12 | 3°37 | n.a. | S 20 |
| M21 | 13 42 37 | 26°57'53 | 5♐59 | 22°34 | 19°59 | 4°57 | 2°36 | 12°52 | 22°51 | 10° 5 | 13°29 | 6°27 | 6° 9 | 3°44 | n.a. | M21 |
| T 22 | 13 46 34 | 27°55'27 | 20°36 | 24°43 | 21°10 | 4°59 | 2°45 | 12°55 | 22°54 | 10° 7 | 13°30 | 6°20 | 6° 6 | 3°51 | n.a. | T 22 |
| W23 | 13 50 30 | 28°53'00 | 4♑45 | 26°54 | 22°20 | 5° 2 | 2°53 | 12°59 | 22°57 | 10° 9 | 13°32 | 6°17 | 6° 3 | 3°57 | n.a. | W23 |
| T 24 | 13 54 27 | 29°50'32 | 18°26 | 29° 5 | 23°31 | 5° 6 | 3° 2 | 13° 3 | 23° 0 | 10°11 | 13°33 | 6°15 | 6° 0 | 4° 4 | n.a. | T 24 |
| F 25 | 13 58 24 | 0♉48'04 | 1♒40 | 1♉16 | 24°41 | 5°10 | 3°11 | 13° 7 | 23° 3 | 10°14 | 13°34 | 6°15 | 5°57 | 4°11 | n.a. | F 25 |
| S 26 | 14 2 20 | 1°45'34 | 14°31 | 3°27 | 25°52 | 5°16 | 3°20 | 13°11 | 23° 6 | 10°16 | 13°36 | 6°15 | 5°53 | 4°18 | n.a. | S 26 |
| S 27 | 14 6 17 | 2°43'03 | 27° 3 | 5°39 | 27° 2 | 5°22 | 3°30 | 13°15 | 23° 9 | 10°18 | 13°37 | 6°14 | 5°50 | 4°24 | n.a. | S 27 |
| M28 | 14 10 13 | 3°40'31 | 9♓20 | 7°50 | 28°13 | 5°28 | 3°39 | 13°19 | 23°11 | 10°20 | 13°39 | 6°10 | 5°47 | 4°31 | n.a. | M28 |
| T 29 | 14 14 10 | 4°37'58 | 21°27 | 10° 0 | 29°24 | 5°36 | 3°48 | 13°23 | 23°14 | 10°23 | 13°40 | 6° 5 | 5°44 | 4°38 | n.a. | T 29 |
| W30 | 14 18 6 | 5♉35'25 | 3♈26 | 12♉10 | 0♈34 | 5♍44 | 3♋58 | 13♋27 | 23♓17 | 10♉25 | 13♉41 | 5♌56 | 5♌41 | 4♉44 | n.a. | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3n 5 | 9s39 | 2s48 | 8s17 | 2s35 | 13s36 | 0s55 | 11n42 | 2n51 | 24n14 | 0n31 | 23n44 | 0n35 | 3s56 | 0s42 | 13n 6 | 1s46 | 5n40 | 10s45 | 18n17 | 18n40 | 7n19 | | n.a. |
| W 2 | 3 28 | 5 36 | 3 38 | 7 38 | 2 33 | 13 15 | 0 58 | 11 45 | 2 48 | 24 14 | 0 31 | 23 44 | 0 35 | 3 55 | 0 42 | 13 7 | 1 46 | 5 41 | 10 45 | 18 19 | 18 41 | 7 22 | | n.a. |
| T 3 | 3 51 | 1 23 | 4 17 | 6 58 | 2 31 | 12 53 | 1 1 | 11 47 | 2 45 | 24 14 | 0 31 | 23 44 | 0 35 | 3 53 | 0 42 | 13 7 | 1 46 | 5 41 | 10 45 | 18 21 | 18 42 | 7 24 | | n.a. |
| F 4 | 4 14 | 2n52 | 4 45 | 6 17 | 2 28 | 12 31 | 1 4 | 11 49 | 2 42 | 24 14 | 0 31 | 23 44 | 0 35 | 3 52 | 0 42 | 13 8 | 1 46 | 5 42 | 10 45 | 18 24 | 18 43 | 7 26 | | n.a. |
| S 5 | 4 37 | 6 59 | 5 0 | 5 34 | 2 25 | 12 9 | 1 7 | 11 50 | 2 39 | 24 14 | 0 31 | 23 44 | 0 35 | 3 51 | 0 42 | 13 9 | 1 46 | 5 42 | 10 45 | 18 28 | 18 44 | 7 28 | | n.a. |
| S 6 | 5 0 | 10 50 | 5 2 | 4 49 | 2 21 | 11 46 | 1 10 | 11 51 | 2 36 | 24 13 | 0 31 | 23 43 | 0 35 | 3 49 | 0 42 | 13 9 | 1 46 | 5 43 | 10 44 | 18 31 | 18 44 | 7 30 | | n.a. |
| M 7 | 5 23 | 14 16 | 4 51 | 4 4 | 2 17 | 11 23 | 1 12 | 11 52 | 2 34 | 24 13 | 0 31 | 23 43 | 0 35 | 3 48 | 0 42 | 13 10 | 1 46 | 5 43 | 10 44 | 18 33 | 18 45 | 7 33 | | n.a. |
| T 8 | 5 46 | 17 8 | 4 27 | 3 17 | 2 12 | 11 0 | 1 15 | 11 53 | 2 31 | 24 13 | 0 31 | 23 43 | 0 35 | 3 47 | 0 42 | 13 11 | 1 46 | 5 44 | 10 44 | 18 36 | 18 46 | 7 35 | | n.a. |
| W 9 | 6 8 | 19 18 | 3 51 | 2 28 | 2 7 | 10 37 | 1 17 | 11 53 | 2 28 | 24 13 | 0 31 | 23 43 | 0 35 | 3 46 | 0 42 | 13 11 | 1 46 | 5 44 | 10 44 | 18 37 | 18 47 | 7 37 | | n.a. |
| T 10 | 6 31 | 20 38 | 3 5 | 1 39 | 2 1 | 10 13 | 1 20 | 11 53 | 2 25 | 24 13 | 0 31 | 23 43 | 0 35 | 3 44 | 0 42 | 13 12 | 1 46 | 5 45 | 10 44 | 18 38 | 18 48 | 7 39 | | n.a. |
| F 11 | 6 53 | 20 59 | 2 9 | 0 48 | 1 55 | 9 48 | 1 22 | 11 53 | 2 22 | 24 13 | 0 31 | 23 42 | 0 35 | 3 43 | 0 42 | 13 13 | 1 46 | 5 45 | 10 44 | 18 38 | 18 48 | 7 42 | | n.a. |
| S 12 | 7 15 | 20 17 | 1 5 | 0n 4 | 1 48 | 9 24 | 1 24 | 11 52 | 2 19 | 24 13 | 0 31 | 23 42 | 0 35 | 3 42 | 0 42 | 13 13 | 1 46 | 5 46 | 10 44 | 18 38 | 18 49 | 7 44 | | n.a. |
| S 13 | 7 38 | 18 29 | 0n 4 | 0 57 | 1 40 | 8 59 | 1 26 | 11 51 | 2 16 | 24 13 | 0 31 | 23 42 | 0 35 | 3 41 | 0 42 | 13 14 | 1 46 | 5 46 | 10 43 | 18 38 | 18 50 | 7 46 | | n.a. |
| M14 | 8 0 | 15 36 | 1 16 | 1 50 | 1 32 | 8 34 | 1 28 | 11 50 | 2 13 | 24 13 | 0 32 | 23 42 | 0 35 | 3 39 | 0 42 | 13 15 | 1 46 | 5 47 | 10 43 | 18 38 | 18 51 | 7 48 | | n.a. |
| T 15 | 8 22 | 11 44 | 2 24 | 2 45 | 1 24 | 8 9 | 1 30 | 11 48 | 2 10 | 24 13 | 0 32 | 23 41 | 0 35 | 3 38 | 0 42 | 13 15 | 1 46 | 5 47 | 10 43 | 18 39 | 18 52 | 7 51 | | n.a. |
| W16 | 8 43 | 7 3 | 3 26 | 3 41 | 1 15 | 7 43 | 1 32 | 11 47 | 2 7 | 24 13 | 0 32 | 23 41 | 0 35 | 3 37 | 0 42 | 13 16 | 1 46 | 5 48 | 10 43 | 18 40 | 18 52 | 7 53 | | n.a. |
| T 17 | 9 5 | 1 49 | 4 16 | 4 38 | 1 6 | 7 18 | 1 34 | 11 45 | 2 5 | 24 13 | 0 32 | 23 41 | 0 35 | 3 36 | 0 42 | 13 17 | 1 46 | 5 48 | 10 43 | 18 42 | 18 53 | 7 55 | | n.a. |
| F 18 | 9 27 | 3s36 | 4 49 | 5 35 | 0 57 | 6 52 | 1 36 | 11 42 | 2 2 | 24 13 | 0 32 | 23 41 | 0 35 | 3 34 | 0 42 | 13 18 | 1 46 | 5 49 | 10 43 | 18 45 | 18 54 | 7 57 | | n.a. |
| S 19 | 9 48 | 8 51 | 5 1 | 6 32 | 0 47 | 6 25 | 1 37 | 11 39 | 1 59 | 24 13 | 0 32 | 23 40 | 0 35 | 3 33 | 0 42 | 13 18 | 1 46 | 5 49 | 10 43 | 18 47 | 18 55 | 7 59 | | n.a. |
| S 20 | 10 9 | 13 31 | 4 52 | 7 30 | 0 37 | 5 59 | 1 39 | 11 37 | 1 56 | 24 12 | 0 32 | 23 40 | 0 35 | 3 32 | 0 42 | 13 19 | 1 46 | 5 50 | 10 43 | 18 50 | 18 56 | 8 2 | | n.a. |
| M21 | 10 30 | 17 14 | 4 22 | 8 28 | 0 27 | 5 32 | 1 40 | 11 33 | 1 53 | 24 12 | 0 32 | 23 40 | 0 35 | 3 31 | 0 42 | 13 20 | 1 46 | 5 50 | 10 43 | 18 52 | 18 56 | 8 4 | | n.a. |
| T 22 | 10 51 | 19 46 | 3 36 | 9 26 | 0 16 | 5 5 | 1 41 | 11 30 | 1 51 | 24 12 | 0 32 | 23 39 | 0 36 | 3 30 | 0 42 | 13 20 | 1 46 | 5 51 | 10 42 | 18 54 | 18 57 | 8 6 | | n.a. |
| W23 | 11 12 | 20 59 | 2 38 | 10 23 | 0 6 | 4 39 | 1 43 | 11 26 | 1 48 | 24 12 | 0 32 | 23 39 | 0 36 | 3 29 | 0 42 | 13 21 | 1 46 | 5 51 | 10 42 | 18 55 | 18 58 | 8 8 | | n.a. |
| T 24 | 11 32 | 20 53 | 1 33 | 11 21 | 0n 5 | 4 11 | 1 44 | 11 22 | 1 45 | 24 12 | 0 32 | 23 39 | 0 36 | 3 27 | 0 42 | 13 22 | 1 46 | 5 52 | 10 42 | 18 55 | 18 59 | 8 11 | | n.a. |
| F 25 | 11 53 | 19 37 | 0 24 | 12 17 | 0 16 | 3 44 | 1 45 | 11 18 | 1 42 | 24 12 | 0 32 | 23 38 | 0 36 | 3 26 | 0 42 | 13 23 | 1 46 | 5 52 | 10 42 | 18 55 | 19 0 | 8 13 | | n.a. |
| S 26 | 12 13 | 17 21 | 0s44 | 13 13 | 0 26 | 3 17 | 1 46 | 11 14 | 1 40 | 24 11 | 0 32 | 23 38 | 0 36 | 3 25 | 0 43 | 13 23 | 1 46 | 5 53 | 10 42 | 18 55 | 19 0 | 8 15 | | n.a. |
| S 27 | 12 33 | 14 19 | 1 48 | 14 7 | 0 36 | 2 49 | 1 47 | 11 9 | 1 37 | 24 11 | 0 32 | 23 38 | 0 36 | 3 24 | 0 43 | 13 24 | 1 46 | 5 53 | 10 42 | 18 55 | 19 1 | 8 17 | | n.a. |
| M28 | 12 53 | 10 42 | 2 45 | 15 0 | 0 46 | 2 21 | 1 47 | 11 4 | 1 34 | 24 11 | 0 32 | 23 37 | 0 36 | 3 23 | 0 43 | 13 25 | 1 46 | 5 54 | 10 42 | 18 56 | 19 2 | 8 19 | | n.a. |
| T 29 | 13 12 | 6 42 | 3 34 | 15 52 | 0 56 | 1 54 | 1 48 | 10 59 | 1 32 | 24 11 | 0 32 | 23 37 | 0 36 | 3 22 | 0 43 | 13 25 | 1 46 | 5 54 | 10 42 | 18 58 | 19 3 | 8 22 | | n.a. |
| W30 | 13n32 | 2s29 | 4s13 | 16n41 | 1n 5 | 1s26 | 1s49 | 10n54 | 1n29 | 24n11 | 0n32 | 23n36 | 0n36 | 3s21 | 0s43 | 13n26 | 1s46 | 5n54 | 10s42 | 19n 0 | 19n 4 | 8n24 | | n.a. |

Julian Day Number = 1690101.5, Delta T = 03h10m56s
Ecliptic obliquity = 23°42'15, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°14'55, Lahiri = - 5°07'55 Julian Calendar 1 Apr. 86 BCE == Greg. Calendar 30 March 086 BCE

The year -85 astronomical counting style corresponds to year 086 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 86 BCE
# geocentric

## MAY 86 BCE (-85) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 22 3 | 6♉32'50 | 15♈21 | 14♉18 | 1♈45 | 5♍52 | 4♋ 7 | 13♋32 | 23♓20 | 10♉27 | 13♉43 | 5°R45 | 5♌37 | 4♉51 | n.a. | T 1 |
| F 2 | 14 25 59 | 7°30'15 | 27°13 | 16°25 | 2°56 | 6° 2 | 4°17 | 13°36 | 23°22 | 10°29 | 13°44 | 5♌32 | 5°34 | 4°58 | n.a. | F 2 |
| S 3 | 14 29 56 | 8°27'38 | 9♉ 5 | 18°30 | 4° 7 | 6°12 | 4°27 | 13°41 | 23°25 | 10°32 | 13°45 | 5°18 | 5°31 | 5° 5 | n.a. | S 3 |
| S 4 | 14 33 53 | 9°25'01 | 20°58 | 20°34 | 5°18 | 6°23 | 4°37 | 13°45 | 23°28 | 10°34 | 13°47 | 5° 4 | 5°28 | 5°11 | n.a. | S 4 |
| M 5 | 14 37 49 | 10°22'22 | 2♊53 | 22°35 | 6°29 | 6°34 | 4°47 | 13°50 | 23°30 | 10°36 | 13°48 | 4°51 | 5°25 | 5°18 | n.a. | M 5 |
| T 6 | 14 41 46 | 11°19'43 | 14°51 | 24°35 | 7°40 | 6°46 | 4°57 | 13°55 | 23°33 | 10°38 | 13°49 | 4°41 | 5°22 | 5°25 | n.a. | T 6 |
| W 7 | 14 45 42 | 12°17'03 | 26°56 | 26°32 | 8°51 | 6°58 | 5° 7 | 14° 0 | 23°35 | 10°41 | 13°51 | 4°34 | 5°18 | 5°32 | n.a. | W 7 |
| T 8 | 14 49 39 | 13°14'21 | 9♋ 9 | 28°27 | 10° 2 | 7°11 | 5°17 | 14° 5 | 23°38 | 10°43 | 13°52 | 4°29 | 5°15 | 5°38 | n.a. | T 8 |
| F 9 | 14 53 35 | 14°11'39 | 21°35 | 0♊19 | 11°13 | 7°25 | 5°28 | 14°10 | 23°40 | 10°45 | 13°54 | 4°27 | 5°12 | 5°45 | n.a. | F 9 |
| S 10 | 14 57 32 | 15° 8'55 | 4♌17 | 2° 9 | 12°24 | 7°39 | 5°38 | 14°15 | 23°43 | 10°47 | 13°55 | 4°D27 | 5° 9 | 5°52 | n.a. | S 10 |
| S 11 | 15 1 28 | 16° 6'11 | 17°20 | 3°57 | 13°35 | 7°54 | 5°49 | 14°20 | 23°45 | 10°50 | 13°56 | 4°R27 | 5° 6 | 5°58 | n.a. | S 11 |
| M12 | 15 5 25 | 17° 3'25 | 0♍46 | 5°42 | 14°47 | 8°10 | 5°59 | 14°25 | 23°47 | 10°52 | 13°58 | 4°26 | 5° 2 | 6° 5 | n.a. | M12 |
| T 13 | 15 9 22 | 18° 0'38 | 14°40 | 7°24 | 15°58 | 8°26 | 6°10 | 14°30 | 23°50 | 10°54 | 13°59 | 4°24 | 4°59 | 6°12 | n.a. | T 13 |
| W14 | 15 13 18 | 18°57'51 | 29° 1 | 9° 4 | 17° 9 | 8°42 | 6°21 | 14°36 | 23°52 | 10°56 | 14° 1 | 4°19 | 4°56 | 6°19 | n.a. | W14 |
| T 15 | 15 17 15 | 19°55'02 | 13♎47 | 10°42 | 18°21 | 8°59 | 6°32 | 14°41 | 23°54 | 10°58 | 14° 2 | 4°12 | 4°53 | 6°25 | n.a. | T 15 |
| F 16 | 15 21 11 | 20°52'13 | 28°53 | 12°16 | 19°32 | 9°17 | 6°42 | 14°46 | 23°56 | 11° 1 | 14° 3 | 4° 4 | 4°50 | 6°32 | n.a. | F 16 |
| S 17 | 15 25 8 | 21°49'23 | 14♏ 9 | 13°49 | 20°43 | 9°35 | 6°53 | 14°52 | 23°59 | 11° 3 | 14° 5 | 3°54 | 4°47 | 6°39 | n.a. | S 17 |
| S 18 | 15 29 4 | 22°46'32 | 29°25 | 15°18 | 21°55 | 9°53 | 7° 4 | 14°58 | 24° 1 | 11° 5 | 14° 6 | 3°44 | 4°43 | 6°45 | n.a. | S 18 |
| M19 | 15 33 1 | 23°43'41 | 14♐30 | 16°45 | 23° 6 | 10°12 | 7°16 | 15° 3 | 24° 3 | 11° 7 | 14° 7 | 3°36 | 4°40 | 6°52 | n.a. | M19 |
| T 20 | 15 36 57 | 24°40'50 | 29°13 | 18° 9 | 24°18 | 10°32 | 7°27 | 15° 9 | 24° 5 | 11° 9 | 14° 9 | 3°29 | 4°37 | 6°59 | n.a. | T 20 |
| W21 | 15 40 54 | 25°37'58 | 13♑31 | 19°30 | 25°29 | 10°51 | 7°38 | 15°15 | 24° 7 | 11°12 | 14°10 | 3°26 | 4°34 | 7° 6 | n.a. | W21 |
| T 22 | 15 44 51 | 26°35'06 | 27°19 | 20°49 | 26°41 | 11°12 | 7°49 | 15°21 | 24° 9 | 11°14 | 14°11 | 3°D24 | 4°31 | 7°12 | n.a. | T 22 |
| F 23 | 15 48 47 | 27°32'15 | 10♒39 | 22° 5 | 27°53 | 11°32 | 8° 1 | 15°27 | 24°11 | 11°16 | 14°13 | 3°24 | 4°28 | 7°19 | n.a. | F 23 |
| S 24 | 15 52 44 | 28°29'23 | 23°33 | 23°17 | 29° 4 | 11°54 | 8°12 | 15°33 | 24°13 | 11°18 | 14°14 | 3°R25 | 4°24 | 7°26 | n.a. | S 24 |
| S 25 | 15 56 40 | 29°26'31 | 6♓ 6 | 24°27 | 0♉16 | 12°15 | 8°24 | 15°39 | 24°15 | 11°20 | 14°16 | 3°25 | 4°21 | 7°33 | n.a. | S 25 |
| M26 | 16 0 37 | 0♊23'38 | 18°22 | 25°34 | 1°28 | 12°37 | 8°35 | 15°45 | 24°17 | 11°23 | 14°17 | 3°23 | 4°18 | 7°39 | n.a. | M26 |
| T 27 | 16 4 33 | 1°20'46 | 0♈26 | 26°38 | 2°40 | 13° 0 | 8°47 | 15°51 | 24°18 | 11°25 | 14°18 | 3°19 | 4°15 | 7°46 | n.a. | T 27 |
| W28 | 16 8 30 | 2°17'54 | 12°22 | 27°39 | 3°51 | 13°23 | 8°59 | 15°57 | 24°20 | 11°27 | 14°19 | 3°13 | 4°12 | 7°53 | n.a. | W28 |
| T 29 | 16 12 26 | 3°15'02 | 24°14 | 28°37 | 5° 3 | 13°46 | 9°11 | 16° 3 | 24°22 | 11°29 | 14°21 | 3° 5 | 4° 8 | 7°59 | n.a. | T 29 |
| F 30 | 16 16 23 | 4°12'10 | 6♉ 6 | 29°31 | 6°15 | 14°10 | 9°22 | 16°10 | 24°23 | 11°31 | 14°22 | 2°55 | 4° 5 | 8° 6 | n.a. | F 30 |
| S 31 | 16 20 20 | 5♊ 9'18 | 17♉58 | 0♋22 | 7♉27 | 14♍34 | 9♋34 | 16♋16 | 24♓25 | 11♉33 | 14♉23 | 2♌44 | 4♌ 2 | 8♉13 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 13n51 | 1n48 | 4s41 | 17n29 | 1n14 | 0s58 | 1s49 | 10n48 | 1n27 | 24n10 | 0n32 | 23n36 | 0n36 | 3s20 | 0s43 | 13n27 | 1s46 | 5n55 | 10s42 | 19n 3 | 19n 4 | 8n26 | | | n.a. |
| F 2 | 14 10 | 5 59 | 4 56 | 18 15 | 1 22 | 0 30 | 1 50 | 10 42 | 1 24 | 24 10 | 0 32 | 23 36 | 0 36 | 3 19 | 0 43 | 13 28 | 1 46 | 5 55 | 10 42 | 19 6 | 19 5 | 8 28 | | | n.a. |
| S 3 | 14 29 | 9 58 | 4 59 | 18 58 | 1 30 | 0 2 | 1 50 | 10 36 | 1 22 | 24 10 | 0 32 | 23 35 | 0 36 | 3 18 | 0 43 | 13 28 | 1 46 | 5 56 | 10 42 | 19 9 | 19 6 | 8 31 | | | n.a. |
| S 4 | 14 47 | 13 34 | 4 48 | 19 39 | 1 37 | 0n26 | 1 50 | 10 30 | 1 19 | 24 9 | 0 32 | 23 35 | 0 36 | 3 17 | 0 43 | 13 29 | 1 46 | 5 56 | 10 41 | 19 13 | 19 7 | 8 33 | | | n.a. |
| M 5 | 15 6 | 16 38 | 4 25 | 20 17 | 1 44 | 0 55 | 1 51 | 10 23 | 1 17 | 24 9 | 0 32 | 23 34 | 0 36 | 3 16 | 0 43 | 13 30 | 1 46 | 5 57 | 10 41 | 19 16 | 19 8 | 8 35 | | | n.a. |
| T 6 | 15 24 | 19 1 | 3 50 | 20 54 | 1 50 | 1 23 | 1 51 | 10 16 | 1 14 | 24 9 | 0 32 | 23 34 | 0 36 | 3 15 | 0 43 | 13 30 | 1 46 | 5 57 | 10 41 | 19 18 | 19 8 | 8 37 | | | n.a. |
| W 7 | 15 42 | 20 36 | 3 4 | 21 27 | 1 55 | 1 51 | 1 51 | 10 10 | 1 12 | 24 8 | 0 32 | 23 33 | 0 36 | 3 14 | 0 43 | 13 31 | 1 46 | 5 58 | 10 41 | 19 20 | 19 9 | 8 39 | | | n.a. |
| T 8 | 15 59 | 21 14 | 2 9 | 21 58 | 1 59 | 2 19 | 1 51 | 10 2 | 1 10 | 24 8 | 0 32 | 23 33 | 0 36 | 3 13 | 0 43 | 13 32 | 1 46 | 5 58 | 10 41 | 19 21 | 19 10 | 8 42 | | | n.a. |
| F 9 | 16 16 | 20 50 | 1 8 | 22 27 | 2 3 | 2 48 | 1 50 | 9 55 | 1 7 | 24 7 | 0 32 | 23 32 | 0 36 | 3 12 | 0 43 | 13 32 | 1 46 | 5 58 | 10 41 | 19 22 | 19 11 | 8 44 | | | n.a. |
| S 10 | 16 34 | 19 23 | 0 1 | 22 53 | 2 6 | 3 16 | 1 50 | 9 48 | 1 5 | 24 7 | 0 32 | 23 32 | 0 36 | 3 11 | 0 43 | 13 33 | 1 46 | 5 59 | 10 41 | 19 22 | 19 11 | 8 46 | | | n.a. |
| S 11 | 16 50 | 16 53 | 1n 8 | 23 16 | 2 8 | 3 44 | 1 50 | 9 40 | 1 3 | 24 7 | 0 32 | 23 31 | 0 36 | 3 10 | 0 43 | 13 34 | 1 46 | 5 59 | 10 41 | 19 22 | 19 12 | 8 48 | | | n.a. |
| M12 | 17 7 | 13 25 | 2 15 | 23 37 | 2 10 | 4 12 | 1 50 | 9 32 | 1 0 | 24 6 | 0 32 | 23 31 | 0 36 | 3 9 | 0 43 | 13 35 | 1 46 | 6 0 | 10 41 | 19 22 | 19 13 | 8 51 | | | n.a. |
| T 13 | 17 23 | 9 6 | 3 16 | 23 56 | 2 11 | 4 40 | 1 49 | 9 24 | 0 58 | 24 6 | 0 32 | 23 30 | 0 36 | 3 8 | 0 43 | 13 35 | 1 46 | 6 0 | 10 41 | 19 22 | 19 14 | 8 53 | | | n.a. |
| W14 | 17 39 | 4 10 | 4 7 | 24 12 | 2 11 | 5 8 | 1 49 | 9 16 | 0 56 | 24 5 | 0 32 | 23 30 | 0 36 | 3 7 | 0 43 | 13 36 | 1 46 | 6 1 | 10 41 | 19 23 | 19 15 | 8 55 | | | n.a. |
| T 15 | 17 55 | 1s 9 | 4 43 | 24 27 | 2 10 | 5 36 | 1 48 | 9 7 | 0 54 | 24 5 | 0 32 | 23 29 | 0 36 | 3 6 | 0 43 | 13 37 | 1 46 | 6 1 | 10 41 | 19 25 | 19 15 | 8 57 | | | n.a. |
| F 16 | 18 10 | 6 31 | 5 0 | 24 38 | 2 9 | 6 4 | 1 47 | 8 59 | 0 52 | 24 4 | 0 32 | 23 29 | 0 36 | 3 5 | 0 43 | 13 37 | 1 46 | 6 1 | 10 41 | 19 27 | 19 16 | 8 59 | | | n.a. |
| S 17 | 18 25 | 11 32 | 4 57 | 24 48 | 2 7 | 6 32 | 1 47 | 8 50 | 0 50 | 24 4 | 0 32 | 23 28 | 0 36 | 3 4 | 0 43 | 13 38 | 1 46 | 6 2 | 10 41 | 19 30 | 19 17 | 9 2 | | | n.a. |
| S 18 | 18 40 | 15 49 | 4 32 | 24 56 | 2 4 | 7 0 | 1 46 | 8 41 | 0 48 | 24 3 | 0 32 | 23 27 | 0 36 | 3 4 | 0 43 | 13 39 | 1 46 | 6 2 | 10 41 | 19 32 | 19 18 | 9 4 | | | n.a. |
| M19 | 18 55 | 19 0 | 3 49 | 25 2 | 2 0 | 7 27 | 1 45 | 8 32 | 0 45 | 24 3 | 0 32 | 23 27 | 0 36 | 3 3 | 0 43 | 13 39 | 1 46 | 6 3 | 10 41 | 19 34 | 19 18 | 9 6 | | | n.a. |
| T 20 | 19 9 | 20 51 | 2 51 | 25 6 | 1 56 | 7 55 | 1 44 | 8 22 | 0 43 | 24 2 | 0 33 | 23 26 | 0 37 | 3 2 | 0 43 | 13 40 | 1 46 | 6 3 | 10 41 | 19 35 | 19 19 | 9 8 | | | n.a. |
| W21 | 19 23 | 21 17 | 1 44 | 25 8 | 1 51 | 8 22 | 1 43 | 8 13 | 0 41 | 24 1 | 0 33 | 23 26 | 0 37 | 3 1 | 0 43 | 13 41 | 1 46 | 6 3 | 10 41 | 19 36 | 19 20 | 9 11 | | | n.a. |
| T 22 | 19 36 | 20 24 | 0 32 | 25 8 | 1 46 | 8 49 | 1 42 | 8 3 | 0 39 | 24 1 | 0 33 | 23 25 | 0 37 | 3 0 | 0 43 | 13 41 | 1 46 | 6 4 | 10 41 | 19 37 | 19 21 | 9 13 | | | n.a. |
| F 23 | 19 50 | 18 23 | 0s38 | 25 7 | 1 39 | 9 16 | 1 41 | 7 53 | 0 37 | 24 0 | 0 33 | 23 24 | 0 37 | 3 0 | 0 43 | 13 42 | 1 46 | 6 4 | 10 41 | 19 37 | 19 21 | 9 15 | | | n.a. |
| S 24 | 20 3 | 15 28 | 1 45 | 25 4 | 1 33 | 9 43 | 1 39 | 7 43 | 0 35 | 23 59 | 0 33 | 23 24 | 0 37 | 2 59 | 0 43 | 13 43 | 1 46 | 6 4 | 10 41 | 19 36 | 19 22 | 9 17 | | | n.a. |
| S 25 | 20 15 | 11 55 | 2 45 | 25 0 | 1 25 | 10 10 | 1 38 | 7 33 | 0 34 | 23 59 | 0 33 | 23 23 | 0 37 | 2 58 | 0 43 | 13 43 | 1 46 | 6 5 | 10 41 | 19 36 | 19 23 | 9 19 | | | n.a. |
| M26 | 20 27 | 7 57 | 3 36 | 24 55 | 1 17 | 10 36 | 1 37 | 7 23 | 0 32 | 23 58 | 0 33 | 23 22 | 0 37 | 2 58 | 0 43 | 13 44 | 1 46 | 6 5 | 10 41 | 19 37 | 19 24 | 9 22 | | | n.a. |
| T 27 | 20 39 | 3 44 | 4 16 | 24 48 | 1 8 | 11 2 | 1 35 | 7 13 | 0 30 | 23 57 | 0 33 | 23 22 | 0 37 | 2 57 | 0 43 | 13 45 | 1 46 | 6 6 | 10 41 | 19 38 | 19 25 | 9 24 | | | n.a. |
| W28 | 20 51 | 0n35 | 4 44 | 24 40 | 0 59 | 11 28 | 1 34 | 7 2 | 0 28 | 23 56 | 0 33 | 23 21 | 0 37 | 2 56 | 0 43 | 13 45 | 1 46 | 6 6 | 10 41 | 19 39 | 19 25 | 9 26 | | | n.a. |
| T 29 | 21 2 | 4 51 | 5 0 | 24 30 | 0 49 | 11 54 | 1 32 | 6 51 | 0 26 | 23 56 | 0 33 | 23 20 | 0 37 | 2 55 | 0 43 | 13 46 | 1 46 | 6 6 | 10 41 | 19 41 | 19 26 | 9 28 | | | n.a. |
| F 30 | 21 13 | 8 56 | 5 3 | 24 20 | 0 38 | 12 20 | 1 31 | 6 40 | 0 24 | 23 55 | 0 33 | 23 19 | 0 37 | 2 55 | 0 43 | 13 47 | 1 46 | 6 7 | 10 41 | 19 43 | 19 27 | 9 30 | | | n.a. |
| S 31 | 21n24 | 12n41 | 4s53 | 24n 9 | 0n27 | 12n45 | 1s29 | 6n29 | 0n23 | 23n54 | 0n33 | 23n19 | 0n37 | 2s54 | 0s43 | 13n47 | 1s46 | 6n 7 | 10s41 | 19n46 | 19n28 | 9n33 | | | n.a. |

Julian Day Number = 1690131.5, Delta T = 03h10m55s
Ecliptic obliquity = 23°42'15, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°14'51, Lahiri = - 5°07'51 Julian Calendar 1 May 86 BCE == Greg. Calendar 29 Apr. 086 BCE

The year -85 astronomical counting style corresponds to year 086 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 86 BCE
# geocentric

## JUNE 86 BCE (-85) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 24 16 | 6♊ 6'26 | 29♉54 | 1♋ 9 | 8♉39 | 14♍58 | 9♋46 | 16♋23 | 24♓27 | 11♉35 | 14♉25 | 2°R33 | 3♌59 | 8♉20 | n.a. | S 1 |
| M 2 | 16 28 13 | 7° 3'34 | 11♊55 | 1°52 | 9°51 | 15°23 | 9°58 | 16°29 | 24°28 | 11°37 | 14°26 | 2♌24 | 3°56 | 8°26 | n.a. | M 2 |
| T 3 | 16 32 9 | 8° 0'42 | 24° 3 | 2°32 | 11° 3 | 15°48 | 10°10 | 16°36 | 24°30 | 11°39 | 14°27 | 2°16 | 3°53 | 8°33 | n.a. | T 3 |
| W 4 | 16 36 6 | 8°57'50 | 6♋17 | 3° 8 | 12°15 | 16°13 | 10°23 | 16°42 | 24°31 | 11°41 | 14°29 | 2°10 | 3°49 | 8°40 | n.a. | W 4 |
| T 5 | 16 40 2 | 9°54'58 | 18°42 | 3°40 | 13°28 | 16°39 | 10°35 | 16°49 | 24°32 | 11°43 | 14°30 | 2° 7 | 3°46 | 8°47 | n.a. | T 5 |
| F 6 | 16 43 59 | 10°52'06 | 1♌17 | 4° 7 | 14°40 | 17° 6 | 10°47 | 16°55 | 24°34 | 11°45 | 14°31 | 2°D 6 | 3°43 | 8°53 | n.a. | F 6 |
| S 7 | 16 47 56 | 11°49'14 | 14° 7 | 4°31 | 15°52 | 17°32 | 10°59 | 17° 2 | 24°35 | 11°47 | 14°32 | 2° 7 | 3°40 | 9° 0 | n.a. | S 7 |
| S 8 | 16 51 52 | 12°46'22 | 27°13 | 4°50 | 17° 4 | 17°59 | 11°11 | 17° 9 | 24°36 | 11°49 | 14°34 | 2° 8 | 3°37 | 9° 7 | n.a. | S 8 |
| M 9 | 16 55 49 | 13°43'29 | 10♍40 | 5° 4 | 18°16 | 18°26 | 11°24 | 17°16 | 24°38 | 11°51 | 14°35 | 2°R 9 | 3°34 | 9°13 | n.a. | M 9 |
| T 10 | 16 59 45 | 14°40'37 | 24°27 | 5°14 | 19°29 | 18°54 | 11°36 | 17°22 | 24°39 | 11°53 | 14°36 | 2° 8 | 3°30 | 9°20 | n.a. | T 10 |
| W11 | 17 3 42 | 15°37'44 | 8♎37 | 5°19 | 20°41 | 19°21 | 11°49 | 17°29 | 24°40 | 11°55 | 14°37 | 2° 6 | 3°27 | 9°27 | n.a. | W11 |
| T 12 | 17 7 38 | 16°34'51 | 23° 8 | 5°R19 | 21°53 | 19°50 | 12° 1 | 17°36 | 24°41 | 11°57 | 14°39 | 2° 2 | 3°24 | 9°34 | n.a. | T 12 |
| F 13 | 17 11 35 | 17°31'59 | 7♏56 | 5°15 | 23° 6 | 20°18 | 12°14 | 17°43 | 24°42 | 11°59 | 14°40 | 1°57 | 3°21 | 9°40 | n.a. | F 13 |
| S 14 | 17 15 31 | 18°29'06 | 22°55 | 5° 5 | 24°18 | 20°47 | 12°26 | 17°50 | 24°43 | 12° 1 | 14°41 | 1°51 | 3°18 | 9°47 | n.a. | S 14 |
| S 15 | 17 19 28 | 19°26'14 | 7♐56 | 4°52 | 25°31 | 21°16 | 12°39 | 17°57 | 24°44 | 12° 3 | 14°42 | 1°45 | 3°14 | 9°54 | n.a. | S 15 |
| M16 | 17 23 25 | 20°23'23 | 22°50 | 4°33 | 26°43 | 21°45 | 12°51 | 18° 4 | 24°45 | 12° 5 | 14°43 | 1°39 | 3°11 | 10° 0 | n.a. | M16 |
| T 17 | 17 27 21 | 21°20'32 | 7♑28 | 4°10 | 27°56 | 22°15 | 13° 4 | 18°11 | 24°46 | 12° 7 | 14°44 | 1°36 | 3° 8 | 10° 7 | n.a. | T 17 |
| W18 | 17 31 18 | 22°17'41 | 21°44 | 3°43 | 29° 8 | 22°44 | 13°17 | 18°18 | 24°46 | 12° 8 | 14°46 | 1°34 | 3° 5 | 10°14 | n.a. | W18 |
| T 19 | 17 35 14 | 23°14'51 | 5♒34 | 3°13 | 0♊21 | 23°14 | 13°29 | 18°26 | 24°47 | 12°10 | 14°47 | 1°D33 | 3° 2 | 10°21 | n.a. | T 19 |
| F 20 | 17 39 11 | 24°12'02 | 18°58 | 2°39 | 1°34 | 23°45 | 13°42 | 18°33 | 24°48 | 12°12 | 14°48 | 1°34 | 2°59 | 10°27 | n.a. | F 20 |
| S 21 | 17 43 7 | 25° 9'14 | 1♓57 | 2° 2 | 2°46 | 24°15 | 13°55 | 18°40 | 24°49 | 12°14 | 14°49 | 1°36 | 2°55 | 10°34 | n.a. | S 21 |
| S 22 | 17 47 4 | 26° 6'26 | 14°33 | 1°23 | 3°59 | 24°46 | 14° 8 | 18°47 | 24°49 | 12°16 | 14°50 | 1°37 | 2°52 | 10°41 | n.a. | S 22 |
| M23 | 17 51 0 | 27° 3'40 | 26°52 | 0°42 | 5°12 | 25°17 | 14°21 | 18°55 | 24°50 | 12°17 | 14°51 | 1°R38 | 2°49 | 10°48 | n.a. | M23 |
| T 24 | 17 54 57 | 28° 0'54 | 8♈57 | 0° 0 | 6°25 | 25°49 | 14°34 | 19° 2 | 24°50 | 12°19 | 14°52 | 1°37 | 2°46 | 10°54 | n.a. | T 24 |
| W25 | 17 58 54 | 28°58'09 | 20°54 | 29♊18 | 7°37 | 26°20 | 14°46 | 19° 9 | 24°51 | 12°21 | 14°53 | 1°35 | 2°43 | 11° 1 | n.a. | W25 |
| T 26 | 18 2 50 | 29°55'25 | 2♉47 | 28°36 | 8°50 | 26°52 | 14°59 | 19°17 | 24°51 | 12°22 | 14°54 | 1°31 | 2°40 | 11° 8 | n.a. | T 26 |
| F 27 | 18 6 47 | 0♋52'43 | 14°39 | 27°56 | 10° 3 | 27°24 | 15°12 | 19°24 | 24°51 | 12°24 | 14°55 | 1°27 | 2°36 | 11°14 | n.a. | F 27 |
| S 28 | 18 10 43 | 1°50'01 | 26°34 | 27°17 | 11°16 | 27°57 | 15°25 | 19°31 | 24°52 | 12°26 | 14°56 | 1°22 | 2°33 | 11°21 | n.a. | S 28 |
| S 29 | 18 14 40 | 2°47'21 | 8♊36 | 26°41 | 12°29 | 28°29 | 15°38 | 19°39 | 24°52 | 12°27 | 14°57 | 1°17 | 2°30 | 11°28 | n.a. | S 29 |
| M30 | 18 18 36 | 3♋44'41 | 20♊45 | 26♊ 8 | 13♊42 | 29♍ 2 | 15♋51 | 19♋46 | 24♓52 | 12♉29 | 14♉58 | 1♌13 | 2♌27 | 11♉35 | n.a. | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21n34 | 15n57 | 4s30 | 23n57 | 0n15 | 13n10 | 1s27 | 6n18 | 0n21 | 23n53 | 0n33 | 23n18 | 0n37 | 2s54 | 0s43 | 13n48 | 1s46 | 6n 7 | 10s41 | 19n48 | 19n28 | 9n35 | | n.a. |
| M 2 | 21 44 | 18 35 | 3 55 | 23 44 | 0 3 | 13 35 | 1 25 | 6 7 | 0 19 | 23 52 | 0 33 | 23 17 | 0 37 | 2 53 | 0 43 | 13 49 | 1 46 | 6 8 | 10 41 | 19 51 | 19 29 | 9 37 | | n.a. |
| T 3 | 21 53 | 20 25 | 3 9 | 23 31 | 0s10 | 13 59 | 1 24 | 5 56 | 0 17 | 23 52 | 0 33 | 23 16 | 0 37 | 2 52 | 0 43 | 13 49 | 1 46 | 6 8 | 10 41 | 19 52 | 19 30 | 9 39 | | n.a. |
| W 4 | 22 2 | 21 19 | 2 14 | 23 17 | 0 23 | 14 23 | 1 22 | 5 44 | 0 16 | 23 51 | 0 33 | 23 16 | 0 37 | 2 52 | 0 44 | 13 50 | 1 46 | 6 8 | 10 41 | 19 54 | 19 31 | 9 41 | | n.a. |
| T 5 | 22 11 | 21 12 | 1 12 | 23 2 | 0 37 | 14 47 | 1 20 | 5 32 | 0 14 | 23 50 | 0 33 | 23 15 | 0 37 | 2 51 | 0 44 | 13 50 | 1 46 | 6 9 | 10 42 | 19 54 | 19 31 | 9 44 | | n.a. |
| F 6 | 22 19 | 20 1 | 0 4 | 22 48 | 0 51 | 15 11 | 1 18 | 5 20 | 0 12 | 23 49 | 0 33 | 23 14 | 0 37 | 2 51 | 0 44 | 13 51 | 1 46 | 6 9 | 10 42 | 19 55 | 19 32 | 9 46 | | n.a. |
| S 7 | 22 27 | 17 48 | 1n 4 | 22 32 | 1 5 | 15 34 | 1 16 | 5 8 | 0 11 | 23 48 | 0 33 | 23 13 | 0 37 | 2 50 | 0 44 | 13 52 | 1 46 | 6 9 | 10 42 | 19 54 | 19 33 | 9 48 | | n.a. |
| S 8 | 22 35 | 14 37 | 2 11 | 22 17 | 1 20 | 15 56 | 1 14 | 4 56 | 0 9 | 23 47 | 0 33 | 23 12 | 0 37 | 2 50 | 0 44 | 13 52 | 1 46 | 6 9 | 10 42 | 19 54 | 19 34 | 9 50 | | n.a. |
| M 9 | 22 42 | 10 37 | 3 13 | 22 2 | 1 35 | 16 19 | 1 12 | 4 44 | 0 7 | 23 46 | 0 33 | 23 12 | 0 37 | 2 49 | 0 44 | 13 53 | 1 46 | 6 10 | 10 42 | 19 54 | 19 34 | 9 52 | | n.a. |
| T 10 | 22 49 | 5 58 | 4 5 | 21 46 | 1 50 | 16 41 | 1 10 | 4 32 | 0 6 | 23 45 | 0 33 | 23 11 | 0 37 | 2 49 | 0 44 | 13 53 | 1 46 | 6 10 | 10 42 | 19 54 | 19 35 | 9 55 | | n.a. |
| W11 | 22 55 | 0 53 | 4 43 | 21 31 | 2 5 | 17 2 | 1 7 | 4 19 | 0 4 | 23 44 | 0 33 | 23 10 | 0 38 | 2 49 | 0 44 | 13 54 | 1 46 | 6 10 | 10 42 | 19 55 | 19 36 | 9 57 | | n.a. |
| T 12 | 23 1 | 4s22 | 5 5 | 21 16 | 2 20 | 17 23 | 1 5 | 4 7 | 0 3 | 23 43 | 0 34 | 23 9 | 0 38 | 2 48 | 0 44 | 13 54 | 1 46 | 6 10 | 10 42 | 19 55 | 19 37 | 9 59 | | n.a. |
| F 13 | 23 7 | 9 28 | 5 7 | 21 1 | 2 35 | 17 44 | 1 3 | 3 54 | 0 1 | 23 42 | 0 34 | 23 8 | 0 38 | 2 48 | 0 44 | 13 55 | 1 46 | 6 11 | 10 42 | 19 57 | 19 37 | 10 1 | | n.a. |
| S 14 | 23 12 | 14 4 | 4 48 | 20 46 | 2 50 | 18 5 | 1 1 | 3 41 | 0s 0 | 23 40 | 0 34 | 23 7 | 0 38 | 2 47 | 0 44 | 13 56 | 1 46 | 6 11 | 10 42 | 19 58 | 19 38 | 10 3 | | n.a. |
| S 15 | 23 17 | 17 46 | 4 10 | 20 32 | 3 5 | 18 24 | 0 58 | 3 28 | 0 2 | 23 39 | 0 34 | 23 6 | 0 38 | 2 47 | 0 44 | 13 56 | 1 46 | 6 11 | 10 42 | 19 59 | 19 39 | 10 6 | | n.a. |
| M16 | 23 21 | 20 16 | 3 14 | 20 19 | 3 19 | 18 44 | 0 56 | 3 15 | 0 3 | 23 38 | 0 34 | 23 6 | 0 38 | 2 47 | 0 44 | 13 57 | 1 46 | 6 11 | 10 42 | 20 1 | 19 40 | 10 8 | | n.a. |
| T 17 | 23 25 | 21 23 | 2 7 | 20 6 | 3 32 | 19 3 | 0 54 | 3 2 | 0 5 | 23 37 | 0 34 | 23 5 | 0 38 | 2 46 | 0 44 | 13 57 | 1 46 | 6 12 | 10 42 | 20 2 | 19 40 | 10 10 | | n.a. |
| W18 | 23 29 | 21 3 | 0 53 | 19 54 | 3 45 | 19 21 | 0 51 | 2 49 | 0 6 | 23 36 | 0 34 | 23 4 | 0 38 | 2 46 | 0 44 | 13 58 | 1 46 | 6 12 | 10 43 | 20 2 | 19 41 | 10 12 | | n.a. |
| T 19 | 23 32 | 19 26 | 0s22 | 19 43 | 3 57 | 19 39 | 0 49 | 2 36 | 0 8 | 23 34 | 0 34 | 23 3 | 0 38 | 2 46 | 0 44 | 13 58 | 1 46 | 6 12 | 10 43 | 20 2 | 19 42 | 10 14 | | n.a. |
| F 20 | 23 35 | 16 47 | 1 33 | 19 33 | 4 8 | 19 57 | 0 46 | 2 22 | 0 9 | 23 33 | 0 34 | 23 2 | 0 38 | 2 46 | 0 44 | 13 59 | 1 46 | 6 12 | 10 43 | 20 2 | 19 43 | 10 17 | | n.a. |
| S 21 | 23 37 | 13 21 | 2 38 | 19 24 | 4 17 | 20 14 | 0 44 | 2 9 | 0 10 | 23 32 | 0 34 | 23 1 | 0 38 | 2 45 | 0 44 | 13 59 | 1 46 | 6 13 | 10 43 | 20 1 | 19 43 | 10 19 | | n.a. |
| S 22 | 23 39 | 9 25 | 3 33 | 19 16 | 4 26 | 20 30 | 0 41 | 1 55 | 0 12 | 23 31 | 0 34 | 23 0 | 0 38 | 2 45 | 0 44 | 14 0 | 1 46 | 6 13 | 10 43 | 20 1 | 19 44 | 10 21 | | n.a. |
| M23 | 23 40 | 5 10 | 4 17 | 19 10 | 4 32 | 20 46 | 0 39 | 1 42 | 0 13 | 23 29 | 0 34 | 22 59 | 0 38 | 2 45 | 0 44 | 14 0 | 1 47 | 6 13 | 10 43 | 20 1 | 19 45 | 10 23 | | n.a. |
| T 24 | 23 41 | 0 49 | 4 48 | 19 5 | 4 38 | 21 1 | 0 36 | 1 28 | 0 14 | 23 28 | 0 34 | 22 58 | 0 38 | 2 45 | 0 44 | 14 1 | 1 47 | 6 13 | 10 43 | 20 1 | 19 45 | 10 25 | | n.a. |
| W25 | 23 42 | 3n31 | 5 7 | 19 1 | 4 41 | 21 16 | 0 34 | 1 14 | 0 16 | 23 27 | 0 34 | 22 57 | 0 38 | 2 45 | 0 44 | 14 1 | 1 47 | 6 13 | 10 43 | 20 2 | 19 46 | 10 28 | | n.a. |
| T 26 | 23 42 | 7 41 | 5 12 | 18 59 | 4 43 | 21 30 | 0 31 | 1 0 | 0 17 | 23 25 | 0 34 | 22 56 | 0 38 | 2 45 | 0 44 | 14 2 | 1 47 | 6 14 | 10 43 | 20 2 | 19 47 | 10 30 | | n.a. |
| F 27 | 23 42 | 11 34 | 5 4 | 18 58 | 4 44 | 21 44 | 0 29 | 0 46 | 0 18 | 23 24 | 0 34 | 22 55 | 0 38 | 2 44 | 0 44 | 14 2 | 1 47 | 6 14 | 10 44 | 20 3 | 19 48 | 10 32 | | n.a. |
| S 28 | 23 41 | 15 1 | 4 43 | 18 59 | 4 42 | 21 57 | 0 26 | 0 32 | 0 20 | 23 22 | 0 35 | 22 54 | 0 39 | 2 44 | 0 44 | 14 3 | 1 47 | 6 14 | 10 44 | 20 5 | 19 48 | 10 34 | | n.a. |
| S 29 | 23 40 | 17 53 | 4 9 | 19 1 | 4 39 | 22 9 | 0 24 | 0 17 | 0 21 | 23 21 | 0 35 | 22 53 | 0 39 | 2 44 | 0 44 | 14 3 | 1 47 | 6 14 | 10 44 | 20 6 | 19 49 | 10 36 | | n.a. |
| M30 | 23n39 | 20n 0 | 3s23 | 19n 5 | 4s34 | 22n21 | 0s21 | 0n 3 | 0s22 | 23n19 | 0n35 | 22n52 | 0n39 | 2s44 | 0s44 | 14n 4 | 1s47 | 6n14 | 10s44 | 20n 7 | 19n50 | 10n38 | | n.a. |

Julian Day Number = 1690162.5, Delta T = 03h10m54s
Ecliptic obliquity = 23°42'14, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°14'47, Lahiri = - 5°07'46 Julian Calendar 1 June 86 BCE == Greg. Calendar 30 May 086 BCE

The year -85 astronomical counting style corresponds to year 086 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 86 BCE
# geocentric

## JULY 86 BCE (-85) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 22 33 | 4♋42'02 | 3♋ 4 | 25°R40 | 14♊55 | 29♍35 | 16♋ 4 | 19♋54 | 24♓52 | 12♉30 | 14♉59 | 1°R 9 | 2♌24 | 11♉41 | n.a. | T 1 |
| W 2 | 18 26 29 | 5°39'25 | 15°33 | 25♊16 | 16° 9 | 0♎ 8 | 16°17 | 20° 1 | 24°52 | 12°32 | 15° 0 | 1♌ 7 | 2°20 | 11°48 | n.a. | W 2 |
| T 3 | 18 30 26 | 6°36'48 | 28°14 | 24°57 | 17°22 | 0°42 | 16°30 | 20° 9 | 24°53 | 12°33 | 15° 1 | 1°D 6 | 2°17 | 11°55 | n.a. | T 3 |
| F 4 | 18 34 23 | 7°34'12 | 11♌ 8 | 24°43 | 18°35 | 1°15 | 16°43 | 20°16 | 24°R53 | 12°35 | 15° 2 | 1° 6 | 2°14 | 12° 2 | n.a. | F 4 |
| S 5 | 18 38 19 | 8°31'37 | 24°14 | 24°36 | 19°48 | 1°49 | 16°57 | 20°24 | 24°53 | 12°36 | 15° 3 | 1° 7 | 2°11 | 12° 8 | n.a. | S 5 |
| S 6 | 18 42 16 | 9°29'03 | 7♍35 | 24°D34 | 21° 1 | 2°23 | 17°10 | 20°31 | 24°52 | 12°38 | 15° 4 | 1° 9 | 2° 8 | 12°15 | n.a. | S 6 |
| M 7 | 18 46 12 | 10°26'29 | 21°10 | 24°39 | 22°15 | 2°58 | 17°23 | 20°39 | 24°52 | 12°39 | 15° 5 | 1°10 | 2° 5 | 12°22 | n.a. | M 7 |
| T 8 | 18 50 9 | 11°23'57 | 5♎ 0 | 24°50 | 23°28 | 3°32 | 17°36 | 20°46 | 24°52 | 12°40 | 15° 5 | 1°R11 | 2° 1 | 12°28 | n.a. | T 8 |
| W 9 | 18 54 5 | 12°21'25 | 19° 5 | 25° 8 | 24°41 | 4° 7 | 17°49 | 20°54 | 24°52 | 12°42 | 15° 6 | 1°11 | 1°58 | 12°35 | n.a. | W 9 |
| T 10 | 18 58 2 | 13°18'54 | 3♏23 | 25°33 | 25°55 | 4°42 | 18° 2 | 21° 2 | 24°52 | 12°43 | 15° 7 | 1°10 | 1°55 | 12°42 | n.a. | T 10 |
| F 11 | 19 1 58 | 14°16'24 | 17°51 | 26° 5 | 27° 8 | 5°17 | 18°15 | 21° 9 | 24°51 | 12°44 | 15° 8 | 1° 9 | 1°52 | 12°49 | n.a. | F 11 |
| S 12 | 19 5 55 | 15°13'55 | 2♐26 | 26°43 | 28°22 | 5°52 | 18°28 | 21°17 | 24°51 | 12°45 | 15° 9 | 1° 7 | 1°49 | 12°55 | n.a. | S 12 |
| S 13 | 19 9 52 | 16°11'28 | 17° 2 | 27°28 | 29°35 | 6°28 | 18°42 | 21°24 | 24°51 | 12°47 | 15° 9 | 1° 5 | 1°46 | 13° 2 | n.a. | S 13 |
| M14 | 19 13 48 | 17° 9'01 | 1♑32 | 28°19 | 0♋49 | 7° 3 | 18°55 | 21°32 | 24°50 | 12°48 | 15°10 | 1° 3 | 1°42 | 13° 9 | n.a. | M14 |
| T 15 | 19 17 45 | 18° 6'36 | 15°51 | 29°17 | 2° 2 | 7°39 | 19° 8 | 21°40 | 24°50 | 12°49 | 15°11 | 1° 2 | 1°39 | 13°15 | n.a. | T 15 |
| W16 | 19 21 41 | 19° 4'12 | 29°54 | 0♋21 | 3°16 | 8°15 | 19°21 | 21°47 | 24°49 | 12°50 | 15°12 | 1°D 2 | 1°36 | 13°22 | n.a. | W16 |
| T 17 | 19 25 38 | 20° 1'49 | 13♒36 | 1°31 | 4°30 | 8°51 | 19°34 | 21°55 | 24°48 | 12°51 | 15°12 | 1° 2 | 1°33 | 13°29 | n.a. | T 17 |
| F 18 | 19 29 34 | 20°59'28 | 26°57 | 2°46 | 5°43 | 9°28 | 19°47 | 22° 3 | 24°48 | 12°52 | 15°13 | 1° 3 | 1°30 | 13°36 | n.a. | F 18 |
| S 19 | 19 33 31 | 21°57'08 | 9♓56 | 4° 8 | 6°57 | 10° 4 | 20° 1 | 22°10 | 24°47 | 12°53 | 15°14 | 1° 4 | 1°26 | 13°42 | n.a. | S 19 |
| S 20 | 19 37 28 | 22°54'50 | 22°34 | 5°34 | 8°11 | 10°41 | 20°14 | 22°18 | 24°46 | 12°54 | 15°14 | 1° 4 | 1°23 | 13°49 | n.a. | S 20 |
| M21 | 19 41 24 | 23°52'33 | 4♈56 | 7° 5 | 9°25 | 11°18 | 20°27 | 22°26 | 24°45 | 12°55 | 15°15 | 1° 5 | 1°20 | 13°56 | n.a. | M21 |
| T 22 | 19 45 21 | 24°50'19 | 17° 3 | 8°41 | 10°38 | 11°55 | 20°40 | 22°33 | 24°45 | 12°56 | 15°15 | 1° 5 | 1°17 | 14° 3 | n.a. | T 22 |
| W23 | 19 49 17 | 25°48'06 | 29° 2 | 10°21 | 11°52 | 12°32 | 20°53 | 22°41 | 24°44 | 12°57 | 15°16 | 1°R 5 | 1°14 | 14° 9 | n.a. | W23 |
| T 24 | 19 53 14 | 26°45'55 | 10♉55 | 12° 5 | 13° 6 | 13° 9 | 21° 6 | 22°49 | 24°43 | 12°58 | 15°17 | 1° 5 | 1°11 | 14°16 | n.a. | T 24 |
| F 25 | 19 57 10 | 27°43'46 | 22°48 | 13°52 | 14°20 | 13°47 | 21°19 | 22°56 | 24°42 | 12°59 | 15°17 | 1° 5 | 1° 7 | 14°23 | n.a. | F 25 |
| S 26 | 20 1 7 | 28°41'39 | 4♊46 | 15°41 | 15°34 | 14°24 | 21°33 | 23° 4 | 24°41 | 13° 0 | 15°18 | 1° 5 | 1° 4 | 14°29 | n.a. | S 26 |
| S 27 | 20 5 3 | 29°39'33 | 16°51 | 17°33 | 16°48 | 15° 2 | 21°46 | 23°11 | 24°40 | 13° 1 | 15°18 | 1° 4 | 1° 1 | 14°36 | n.a. | S 27 |
| M28 | 20 9 0 | 0♌37'30 | 29° 8 | 19°27 | 18° 2 | 15°40 | 21°59 | 23°19 | 24°39 | 13° 2 | 15°19 | 1°D 4 | 0°58 | 14°43 | n.a. | M28 |
| T 29 | 20 12 57 | 1°35'28 | 11♋38 | 21°23 | 19°16 | 16°18 | 22°12 | 23°27 | 24°37 | 13° 2 | 15°19 | 1° 4 | 0°55 | 14°50 | n.a. | T 29 |
| W30 | 20 16 53 | 2°33'28 | 24°23 | 23°20 | 20°31 | 16°57 | 22°25 | 23°34 | 24°36 | 13° 3 | 15°20 | 1° 4 | 0°52 | 14°56 | n.a. | W30 |
| T 31 | 20 20 50 | 3♌31'30 | 7♌24 | 25♋17 | 21♋45 | 17♎35 | 22♋38 | 23♋42 | 24♓35 | 13♉ 4 | 15♉20 | 1°R 4 | 0♌48 | 15♉ 3 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 23n37 | 21n12 | 2s28 | 19n10 | 4s28 | 22n32 | 0s19 | 0s11 | 0s23 | 23n18 | 0n35 | 22n51 | 0n39 | 2s44 | 0s44 | 14n 4 | 1s47 | 6n14 | 10s44 | 20n 7 | 19n51 | 10n41 | | | n.a. |
| W 2 | 23 35 | 21 23 | 1 24 | 19 17 | 4 20 | 22 43 | 0 16 | 0 26 | 0 24 | 23 16 | 0 35 | 22 50 | 0 39 | 2 44 | 0 44 | 14 4 | 1 47 | 6 14 | 10 44 | 20 8 | 19 51 | 10 43 | | | n.a. |
| T 3 | 23 32 | 20 29 | 0 16 | 19 26 | 4 11 | 22 52 | 0 13 | 0 40 | 0 26 | 23 15 | 0 35 | 22 49 | 0 39 | 2 44 | 0 44 | 14 5 | 1 47 | 6 15 | 10 44 | 20 8 | 19 52 | 10 45 | | | n.a. |
| F 4 | 23 29 | 18 30 | 0n55 | 19 36 | 4 0 | 23 2 | 0 11 | 0 55 | 0 27 | 23 13 | 0 35 | 22 48 | 0 39 | 2 44 | 0 45 | 14 5 | 1 47 | 6 15 | 10 45 | 20 8 | 19 53 | 10 47 | | | n.a. |
| S 5 | 23 26 | 15 32 | 2 4 | 19 47 | 3 49 | 23 10 | 0 8 | 1 10 | 0 28 | 23 12 | 0 35 | 22 47 | 0 39 | 2 44 | 0 45 | 14 6 | 1 47 | 6 15 | 10 45 | 20 8 | 19 54 | 10 49 | | | n.a. |
| S 6 | 23 22 | 11 43 | 3 8 | 19 59 | 3 36 | 23 18 | 0 6 | 1 24 | 0 29 | 23 10 | 0 35 | 22 46 | 0 39 | 2 44 | 0 45 | 14 6 | 1 47 | 6 15 | 10 45 | 20 7 | 19 54 | 10 52 | | | n.a. |
| M 7 | 23 17 | 7 14 | 4 2 | 20 13 | 3 23 | 23 25 | 0 3 | 1 39 | 0 30 | 23 8 | 0 35 | 22 45 | 0 39 | 2 44 | 0 45 | 14 6 | 1 47 | 6 15 | 10 45 | 20 7 | 19 55 | 10 54 | | | n.a. |
| T 8 | 23 13 | 2 19 | 4 43 | 20 28 | 3 9 | 23 32 | 0 1 | 1 54 | 0 31 | 23 7 | 0 35 | 22 43 | 0 39 | 2 45 | 0 45 | 14 7 | 1 47 | 6 15 | 10 45 | 20 7 | 19 56 | 10 56 | | | n.a. |
| W 9 | 23 7 | 2s48 | 5 8 | 20 43 | 2 54 | 23 38 | 0n 2 | 2 9 | 0 32 | 23 5 | 0 35 | 22 42 | 0 39 | 2 45 | 0 45 | 14 7 | 1 47 | 6 15 | 10 45 | 20 7 | 19 56 | 10 58 | | | n.a. |
| T 10 | 23 2 | 7 51 | 5 15 | 20 59 | 2 39 | 23 43 | 0 5 | 2 24 | 0 34 | 23 3 | 0 35 | 22 41 | 0 39 | 2 45 | 0 45 | 14 7 | 1 47 | 6 15 | 10 45 | 20 7 | 19 57 | 11 0 | | | n.a. |
| F 11 | 22 56 | 12 30 | 5 2 | 21 15 | 2 23 | 23 47 | 0 7 | 2 39 | 0 35 | 23 2 | 0 35 | 22 40 | 0 39 | 2 45 | 0 45 | 14 8 | 1 47 | 6 15 | 10 46 | 20 8 | 19 58 | 11 2 | | | n.a. |
| S 12 | 22 49 | 16 28 | 4 30 | 21 32 | 2 8 | 23 51 | 0 10 | 2 54 | 0 36 | 23 0 | 0 36 | 22 39 | 0 40 | 2 45 | 0 45 | 14 8 | 1 47 | 6 15 | 10 46 | 20 8 | 19 59 | 11 5 | | | n.a. |
| S 13 | 22 43 | 19 25 | 3 40 | 21 49 | 1 52 | 23 54 | 0 12 | 3 9 | 0 37 | 22 58 | 0 36 | 22 38 | 0 40 | 2 45 | 0 45 | 14 8 | 1 47 | 6 15 | 10 46 | 20 8 | 19 59 | 11 7 | | | n.a. |
| M14 | 22 35 | 21 6 | 2 36 | 22 6 | 1 36 | 23 57 | 0 15 | 3 25 | 0 38 | 22 57 | 0 36 | 22 37 | 0 40 | 2 46 | 0 45 | 14 9 | 1 47 | 6 16 | 10 46 | 20 9 | 20 0 | 11 9 | | | n.a. |
| T 15 | 22 28 | 21 23 | 1 23 | 22 22 | 1 20 | 23 58 | 0 17 | 3 40 | 0 39 | 22 55 | 0 36 | 22 36 | 0 40 | 2 46 | 0 45 | 14 9 | 1 47 | 6 16 | 10 46 | 20 9 | 20 1 | 11 11 | | | n.a. |
| W16 | 22 20 | 20 18 | 0 6 | 22 37 | 1 5 | 23 59 | 0 19 | 3 55 | 0 40 | 22 53 | 0 36 | 22 34 | 0 40 | 2 46 | 0 45 | 14 9 | 1 48 | 6 16 | 10 46 | 20 9 | 20 1 | 11 13 | | | n.a. |
| T 17 | 22 11 | 18 2 | 1s 9 | 22 52 | 0 50 | 23 59 | 0 22 | 4 10 | 0 41 | 22 51 | 0 36 | 22 33 | 0 40 | 2 46 | 0 45 | 14 10 | 1 48 | 6 16 | 10 47 | 20 9 | 20 2 | 11 15 | | | n.a. |
| F 18 | 22 3 | 14 50 | 2 19 | 23 6 | 0 35 | 23 59 | 0 24 | 4 26 | 0 42 | 22 49 | 0 36 | 22 32 | 0 40 | 2 47 | 0 45 | 14 10 | 1 48 | 6 16 | 10 47 | 20 9 | 20 3 | 11 18 | | | n.a. |
| S 19 | 21 54 | 11 0 | 3 19 | 23 18 | 0 20 | 23 58 | 0 27 | 4 41 | 0 43 | 22 47 | 0 36 | 22 31 | 0 40 | 2 47 | 0 45 | 14 10 | 1 48 | 6 16 | 10 47 | 20 9 | 20 4 | 11 20 | | | n.a. |
| S 20 | 21 44 | 6 46 | 4 8 | 23 28 | 0 7 | 23 56 | 0 29 | 4 57 | 0 44 | 22 46 | 0 36 | 22 30 | 0 40 | 2 47 | 0 45 | 14 10 | 1 48 | 6 16 | 10 47 | 20 8 | 20 4 | 11 22 | | | n.a. |
| M21 | 21 34 | 2 22 | 4 45 | 23 37 | 0n 7 | 23 53 | 0 31 | 5 12 | 0 45 | 22 44 | 0 36 | 22 29 | 0 40 | 2 48 | 0 45 | 14 11 | 1 48 | 6 16 | 10 47 | 20 8 | 20 5 | 11 24 | | | n.a. |
| T 22 | 21 24 | 2n 3 | 5 7 | 23 44 | 0 19 | 23 50 | 0 33 | 5 28 | 0 46 | 22 42 | 0 36 | 22 27 | 0 40 | 2 48 | 0 45 | 14 11 | 1 48 | 6 16 | 10 47 | 20 8 | 20 6 | 11 26 | | | n.a. |
| W23 | 21 13 | 6 19 | 5 17 | 23 48 | 0 31 | 23 46 | 0 36 | 5 43 | 0 47 | 22 40 | 0 37 | 22 26 | 0 40 | 2 48 | 0 45 | 14 11 | 1 48 | 6 16 | 10 48 | 20 8 | 20 6 | 11 28 | | | n.a. |
| T 24 | 21 2 | 10 19 | 5 12 | 23 51 | 0 42 | 23 41 | 0 38 | 5 59 | 0 48 | 22 38 | 0 37 | 22 25 | 0 41 | 2 49 | 0 45 | 14 11 | 1 48 | 6 16 | 10 48 | 20 8 | 20 7 | 11 31 | | | n.a. |
| F 25 | 20 51 | 13 56 | 4 54 | 23 50 | 0 52 | 23 35 | 0 40 | 6 14 | 0 49 | 22 36 | 0 37 | 22 24 | 0 41 | 2 49 | 0 45 | 14 12 | 1 48 | 6 16 | 10 48 | 20 8 | 20 8 | 11 33 | | | n.a. |
| S 26 | 20 39 | 17 0 | 4 24 | 23 47 | 1 1 | 23 29 | 0 42 | 6 30 | 0 49 | 22 34 | 0 37 | 22 23 | 0 41 | 2 50 | 0 45 | 14 12 | 1 48 | 6 16 | 10 48 | 20 8 | 20 8 | 11 35 | | | n.a. |
| S 27 | 20 27 | 19 22 | 3 41 | 23 41 | 1 10 | 23 22 | 0 44 | 6 45 | 0 50 | 22 32 | 0 37 | 22 21 | 0 41 | 2 50 | 0 45 | 14 12 | 1 48 | 6 16 | 10 48 | 20 8 | 20 9 | 11 37 | | | n.a. |
| M28 | 20 14 | 20 54 | 2 48 | 23 33 | 1 17 | 23 14 | 0 46 | 7 1 | 0 51 | 22 30 | 0 37 | 22 20 | 0 41 | 2 51 | 0 45 | 14 12 | 1 48 | 6 16 | 10 49 | 20 8 | 20 10 | 11 39 | | | n.a. |
| T 29 | 20 2 | 21 26 | 1 46 | 23 22 | 1 24 | 23 6 | 0 48 | 7 17 | 0 52 | 22 28 | 0 37 | 22 19 | 0 41 | 2 51 | 0 45 | 14 12 | 1 48 | 6 15 | 10 49 | 20 8 | 20 11 | 11 41 | | | n.a. |
| W30 | 19 48 | 20 52 | 0 37 | 23 8 | 1 30 | 22 57 | 0 50 | 7 32 | 0 53 | 22 26 | 0 37 | 22 18 | 0 41 | 2 52 | 0 45 | 14 13 | 1 48 | 6 15 | 10 49 | 20 8 | 20 11 | 11 43 | | | n.a. |
| T 31 | 19n35 | 19n11 | 0n35 | 22n52 | 1n35 | 22n47 | 0n52 | 7s48 | 0s54 | 22n24 | 0n37 | 22n17 | 0n41 | 2s52 | 0s45 | 14n13 | 1s48 | 6n15 | 10s49 | 20n 8 | 20n12 | 11n46 | | | n.a. |

Julian Day Number = 1690192.5, Delta T = 03h10m53s
Ecliptic obliquity = 23°42'14, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°14'43, Lahiri = - 5°07'42 Julian Calendar 1 July 86 BCE == Greg. Calendar 29 June 086 BCE

The year -85 astronomical counting style corresponds to year 086 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 86 BCE
# geocentric

## AUGUST 86 BCE (-85) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 20 24 46 | 4♌29'33 | 20♌41 | 27♋15 | 22♋59 | 18♎14 | 22♋51 | 23♋49 | 24°R34 | 13♉ 4 | 15♉20 | 1°R 4 | 0♌45 | 15♉10 | n.a. | F 1 |
| S 2 | 20 28 43 | 5°27'38 | 4♍12 | 29°13 | 24°13 | 18°52 | 23° 4 | 23°57 | 24♓32 | 13° 5 | 15°21 | 1♌ 4 | 0°42 | 15°16 | n.a. | S 2 |
| S 3 | 20 32 39 | 6°25'45 | 17°56 | 1♌11 | 25°27 | 19°31 | 23°17 | 24° 5 | 24°31 | 13° 6 | 15°21 | 1° 3 | 0°39 | 15°23 | n.a. | S 3 |
| M 4 | 20 36 36 | 7°23'53 | 1♎51 | 3° 9 | 26°42 | 20°10 | 23°30 | 24°12 | 24°30 | 13° 6 | 15°21 | 1° 3 | 0°36 | 15°30 | n.a. | M 4 |
| T 5 | 20 40 32 | 8°22'02 | 15°54 | 5° 7 | 27°56 | 20°49 | 23°43 | 24°20 | 24°28 | 13° 7 | 15°22 | 1° 2 | 0°32 | 15°37 | n.a. | T 5 |
| W 6 | 20 44 29 | 9°20'14 | 0♏ 4 | 7° 4 | 29°10 | 21°29 | 23°56 | 24°27 | 24°27 | 13° 7 | 15°22 | 1° 2 | 0°29 | 15°43 | n.a. | W 6 |
| T 7 | 20 48 25 | 10°18'27 | 14°17 | 9° 0 | 0♌25 | 22° 8 | 24° 9 | 24°34 | 24°25 | 13° 8 | 15°22 | 1°D 2 | 0°26 | 15°50 | n.a. | T 7 |
| F 8 | 20 52 22 | 11°16'41 | 28°31 | 10°55 | 1°39 | 22°48 | 24°22 | 24°42 | 24°24 | 13° 8 | 15°22 | 1° 2 | 0°23 | 15°57 | n.a. | F 8 |
| S 9 | 20 56 19 | 12°14'57 | 12♐44 | 12°50 | 2°54 | 23°27 | 24°34 | 24°49 | 24°22 | 13° 8 | 15°23 | 1° 3 | 0°20 | 16° 3 | n.a. | S 9 |
| S 10 | 21 0 15 | 13°13'15 | 26°53 | 14°43 | 4° 8 | 24° 7 | 24°47 | 24°57 | 24°20 | 13° 9 | 15°23 | 1° 4 | 0°17 | 16°10 | n.a. | S 10 |
| M11 | 21 4 12 | 14°11'34 | 10♑55 | 16°35 | 5°22 | 24°47 | 25° 0 | 25° 4 | 24°19 | 13° 9 | 15°23 | 1° 5 | 0°13 | 16°17 | n.a. | M11 |
| T 12 | 21 8 8 | 15° 9'55 | 24°48 | 18°27 | 6°37 | 25°27 | 25°13 | 25°12 | 24°17 | 13° 9 | 15°23 | 1°R 5 | 0°10 | 16°24 | n.a. | T 12 |
| W13 | 21 12 5 | 16° 8'18 | 8♒28 | 20°17 | 7°52 | 26° 7 | 25°26 | 25°19 | 24°15 | 13°10 | 15°23 | 1° 5 | 0° 7 | 16°30 | n.a. | W13 |
| T 14 | 21 16 1 | 17° 6'43 | 21°53 | 22° 6 | 9° 6 | 26°48 | 25°38 | 25°26 | 24°13 | 13°10 | 15°24 | 1° 4 | 0° 4 | 16°37 | n.a. | T 14 |
| F 15 | 21 19 58 | 18° 5'10 | 5♓ 2 | 23°54 | 10°21 | 27°28 | 25°51 | 25°33 | 24°12 | 13°10 | 15°24 | 1° 3 | 0° 1 | 16°44 | n.a. | F 15 |
| S 16 | 21 23 54 | 19° 3'39 | 17°54 | 25°41 | 11°35 | 28° 9 | 26° 4 | 25°41 | 24°10 | 13°10 | 15°24 | 1° 0 | 29♋57 | 16°51 | n.a. | S 16 |
| S 17 | 21 27 51 | 20° 2'10 | 0♈29 | 27°27 | 12°50 | 28°50 | 26°16 | 25°48 | 24° 8 | 13°10 | 15°24 | 0°57 | 29°54 | 16°57 | n.a. | S 17 |
| M18 | 21 31 48 | 21° 0'43 | 12°49 | 29°12 | 14° 5 | 29°30 | 26°29 | 25°55 | 24° 6 | 13°10 | 15°24 | 0°54 | 29°51 | 17° 4 | n.a. | M18 |
| T 19 | 21 35 44 | 21°59'18 | 24°57 | 0♍56 | 15°19 | 0♏11 | 26°41 | 26° 2 | 24° 4 | 13°10 | 15°R24 | 0°52 | 29°48 | 17°11 | n.a. | T 19 |
| W20 | 21 39 41 | 22°57'56 | 6♉55 | 2°38 | 16°34 | 0°52 | 26°54 | 26° 9 | 24° 2 | 13°R10 | 15°24 | 0°50 | 29°45 | 17°17 | n.a. | W20 |
| T 21 | 21 43 37 | 23°56'36 | 18°49 | 4°20 | 17°49 | 1°33 | 27° 6 | 26°16 | 24° 0 | 13°10 | 15°24 | 0°D49 | 29°42 | 17°24 | n.a. | T 21 |
| F 22 | 21 47 34 | 24°55'18 | 0♊42 | 6° 1 | 19° 4 | 2°15 | 27°18 | 26°24 | 23°58 | 13°10 | 15°24 | 0°49 | 29°38 | 17°31 | n.a. | F 22 |
| S 23 | 21 51 30 | 25°54'03 | 12°39 | 7°40 | 20°18 | 2°56 | 27°31 | 26°31 | 23°56 | 13°10 | 15°24 | 0°50 | 29°35 | 17°38 | n.a. | S 23 |
| S 24 | 21 55 27 | 26°52'50 | 24°45 | 9°19 | 21°33 | 3°38 | 27°43 | 26°38 | 23°54 | 13°10 | 15°24 | 0°51 | 29°32 | 17°44 | n.a. | S 24 |
| M25 | 21 59 23 | 27°51'39 | 7♋ 4 | 10°57 | 22°48 | 4°19 | 27°55 | 26°44 | 23°52 | 13°10 | 15°23 | 0°53 | 29°29 | 17°51 | n.a. | M25 |
| T 26 | 22 3 20 | 28°50'31 | 19°41 | 12°33 | 24° 3 | 5° 1 | 28° 7 | 26°51 | 23°50 | 13°10 | 15°23 | 0°54 | 29°26 | 17°58 | n.a. | T 26 |
| W27 | 22 7 17 | 29°49'25 | 2♌38 | 14° 9 | 25°18 | 5°43 | 28°20 | 26°58 | 23°47 | 13°10 | 15°23 | 0°R55 | 29°23 | 18° 4 | n.a. | W27 |
| T 28 | 22 11 13 | 0♍48'21 | 15°56 | 15°44 | 26°33 | 6°25 | 28°32 | 27° 5 | 23°45 | 13° 9 | 15°23 | 0°54 | 29°19 | 18°11 | n.a. | T 28 |
| F 29 | 22 15 10 | 1°47'19 | 29°35 | 17°18 | 27°48 | 7° 7 | 28°44 | 27°12 | 23°43 | 13° 9 | 15°23 | 0°52 | 29°16 | 18°18 | n.a. | F 29 |
| S 30 | 22 19 6 | 2°46'19 | 13♍33 | 18°51 | 29° 3 | 7°49 | 28°56 | 27°19 | 23°41 | 13° 9 | 15°23 | 0°48 | 29°13 | 18°25 | n.a. | S 30 |
| S 31 | 22 23 3 | 3♍45'22 | 27♍46 | 20♍23 | 0♍18 | 8♏31 | 29♋ 8 | 27♋25 | 23♓39 | 13♉ 8 | 15♉22 | 0♌43 | 29♋10 | 18♉31 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 19n21 | 16n26 | 1n47 | 22n33 | 1n39 | 22n37 | 0n54 | 8s 4 | 0s55 | 22n22 | 0n37 | 22n15 | 0n41 | 2s53 | 0s45 | 14n13 | 1s48 | 6n15 | 10s49 | 20n 8 | 20n13 | 11n48 | | n.a. |
| S 2 | 19 7 | 12 46 | 2 53 | 22 12 | 1 42 | 22 25 | 0 56 | 8 19 | 0 55 | 22 19 | 0 38 | 22 14 | 0 41 | 2 53 | 0 45 | 14 13 | 1 48 | 6 15 | 10 49 | 20 9 | 20 13 | 11 50 | | n.a. |
| S 3 | 18 52 | 8 22 | 3 51 | 21 49 | 1 45 | 22 14 | 0 58 | 8 35 | 0 56 | 22 17 | 0 38 | 22 13 | 0 41 | 2 54 | 0 45 | 14 13 | 1 49 | 6 15 | 10 50 | 20 9 | 20 14 | 11 52 | | n.a. |
| M 4 | 18 38 | 3 29 | 4 37 | 21 23 | 1 46 | 22 1 | 0 59 | 8 51 | 0 57 | 22 15 | 0 38 | 22 12 | 0 42 | 2 54 | 0 45 | 14 13 | 1 49 | 6 15 | 10 50 | 20 9 | 20 15 | 11 54 | | n.a. |
| T 5 | 18 22 | 1s38 | 5 6 | 20 56 | 1 47 | 21 48 | 1 1 | 9 6 | 0 58 | 22 13 | 0 38 | 22 10 | 0 42 | 2 55 | 0 46 | 14 13 | 1 49 | 6 15 | 10 50 | 20 9 | 20 15 | 11 56 | | n.a. |
| W 6 | 18 7 | 6 41 | 5 17 | 20 27 | 1 48 | 21 34 | 1 3 | 9 22 | 0 59 | 22 11 | 0 38 | 22 9 | 0 42 | 2 56 | 0 46 | 14 13 | 1 49 | 6 15 | 10 50 | 20 9 | 20 16 | 11 59 | | n.a. |
| T 7 | 17 51 | 11 24 | 5 8 | 19 56 | 1 47 | 21 20 | 1 4 | 9 38 | 0 59 | 22 9 | 0 38 | 22 8 | 0 42 | 2 56 | 0 46 | 14 13 | 1 49 | 6 15 | 10 50 | 20 9 | 20 17 | 12 1 | | n.a. |
| F 8 | 17 35 | 15 29 | 4 41 | 19 23 | 1 46 | 21 5 | 1 6 | 9 53 | 1 0 | 22 7 | 0 38 | 22 7 | 0 42 | 2 57 | 0 46 | 14 14 | 1 49 | 6 15 | 10 51 | 20 9 | 20 18 | 12 3 | | n.a. |
| S 9 | 17 19 | 18 40 | 3 57 | 18 49 | 1 45 | 20 49 | 1 7 | 10 9 | 1 1 | 22 4 | 0 38 | 22 5 | 0 42 | 2 58 | 0 46 | 14 14 | 1 49 | 6 14 | 10 51 | 20 9 | 20 18 | 12 5 | | n.a. |
| S 10 | 17 2 | 20 42 | 2 58 | 18 14 | 1 43 | 20 33 | 1 9 | 10 24 | 1 1 | 22 2 | 0 38 | 22 4 | 0 42 | 2 58 | 0 46 | 14 14 | 1 49 | 6 14 | 10 51 | 20 9 | 20 19 | 12 7 | | n.a. |
| M11 | 16 45 | 21 26 | 1 49 | 17 38 | 1 40 | 20 16 | 1 10 | 10 40 | 1 2 | 22 0 | 0 39 | 22 3 | 0 42 | 2 59 | 0 46 | 14 14 | 1 49 | 6 14 | 10 51 | 20 8 | 20 20 | 12 9 | | n.a. |
| T 12 | 16 28 | 20 50 | 0 35 | 17 0 | 1 37 | 19 59 | 1 11 | 10 55 | 1 3 | 21 58 | 0 39 | 22 2 | 0 42 | 3 0 | 0 46 | 14 14 | 1 49 | 6 14 | 10 51 | 20 8 | 20 20 | 12 11 | | n.a. |
| W13 | 16 10 | 19 0 | 0s41 | 16 22 | 1 34 | 19 40 | 1 13 | 11 11 | 1 4 | 21 55 | 0 39 | 22 0 | 0 42 | 3 0 | 0 46 | 14 14 | 1 49 | 6 14 | 10 52 | 20 8 | 20 21 | 12 14 | | n.a. |
| T 14 | 15 53 | 16 8 | 1 52 | 15 43 | 1 30 | 19 22 | 1 14 | 11 26 | 1 4 | 21 53 | 0 39 | 21 59 | 0 43 | 3 1 | 0 46 | 14 14 | 1 49 | 6 14 | 10 52 | 20 8 | 20 22 | 12 16 | | n.a. |
| F 15 | 15 35 | 12 30 | 2 57 | 15 3 | 1 26 | 19 3 | 1 15 | 11 42 | 1 5 | 21 51 | 0 39 | 21 58 | 0 43 | 3 2 | 0 46 | 14 14 | 1 49 | 6 14 | 10 52 | 20 9 | 20 22 | 12 18 | | n.a. |
| S 16 | 15 16 | 8 21 | 3 50 | 14 22 | 1 21 | 18 43 | 1 16 | 11 57 | 1 6 | 21 49 | 0 39 | 21 57 | 0 43 | 3 3 | 0 46 | 14 14 | 1 49 | 6 13 | 10 52 | 20 9 | 20 23 | 12 20 | | n.a. |
| S 17 | 14 58 | 3 57 | 4 31 | 13 41 | 1 17 | 18 23 | 1 17 | 12 12 | 1 6 | 21 46 | 0 39 | 21 55 | 0 43 | 3 3 | 0 46 | 14 14 | 1 49 | 6 13 | 10 52 | 20 10 | 20 24 | 12 22 | | n.a. |
| M18 | 14 39 | 0n32 | 4 59 | 13 0 | 1 11 | 18 2 | 1 18 | 12 28 | 1 7 | 21 44 | 0 39 | 21 54 | 0 43 | 3 4 | 0 46 | 14 14 | 1 49 | 6 13 | 10 53 | 20 11 | 20 24 | 12 24 | | n.a. |
| T 19 | 14 20 | 4 55 | 5 13 | 12 18 | 1 6 | 17 40 | 1 19 | 12 43 | 1 7 | 21 42 | 0 40 | 21 53 | 0 43 | 3 5 | 0 46 | 14 14 | 1 49 | 6 13 | 10 53 | 20 11 | 20 25 | 12 26 | | n.a. |
| W20 | 14 1 | 9 3 | 5 13 | 11 35 | 1 0 | 17 19 | 1 20 | 12 58 | 1 8 | 21 40 | 0 40 | 21 52 | 0 43 | 3 6 | 0 46 | 14 14 | 1 49 | 6 13 | 10 53 | 20 12 | 20 26 | 12 28 | | n.a. |
| T 21 | 13 41 | 12 49 | 4 59 | 10 52 | 0 55 | 16 56 | 1 21 | 13 13 | 1 9 | 21 37 | 0 40 | 21 50 | 0 43 | 3 7 | 0 46 | 14 14 | 1 50 | 6 13 | 10 53 | 20 12 | 20 26 | 12 31 | | n.a. |
| F 22 | 13 21 | 16 4 | 4 33 | 10 9 | 0 48 | 16 33 | 1 21 | 13 28 | 1 9 | 21 35 | 0 40 | 21 49 | 0 44 | 3 7 | 0 46 | 14 14 | 1 50 | 6 12 | 10 53 | 20 12 | 20 27 | 12 33 | | n.a. |
| S 23 | 13 2 | 18 41 | 3 55 | 9 26 | 0 42 | 16 10 | 1 22 | 13 43 | 1 10 | 21 33 | 0 40 | 21 48 | 0 44 | 3 8 | 0 46 | 14 13 | 1 50 | 6 12 | 10 54 | 20 12 | 20 28 | 12 35 | | n.a. |
| S 24 | 12 41 | 20 30 | 3 6 | 8 43 | 0 36 | 15 46 | 1 22 | 13 58 | 1 10 | 21 30 | 0 40 | 21 47 | 0 44 | 3 9 | 0 46 | 14 13 | 1 50 | 6 12 | 10 54 | 20 11 | 20 28 | 12 37 | | n.a. |
| M25 | 12 21 | 21 24 | 2 7 | 7 59 | 0 29 | 15 22 | 1 23 | 14 13 | 1 11 | 21 28 | 0 40 | 21 45 | 0 44 | 3 10 | 0 46 | 14 13 | 1 50 | 6 12 | 10 54 | 20 11 | 20 29 | 12 39 | | n.a. |
| T 26 | 12 0 | 21 14 | 1 1 | 7 16 | 0 22 | 14 58 | 1 23 | 14 28 | 1 12 | 21 26 | 0 40 | 21 44 | 0 44 | 3 11 | 0 46 | 14 13 | 1 50 | 6 11 | 10 54 | 20 11 | 20 30 | 12 41 | | n.a. |
| W27 | 11 40 | 19 57 | 0n 9 | 6 32 | 0 15 | 14 33 | 1 24 | 14 42 | 1 12 | 21 23 | 0 41 | 21 43 | 0 44 | 3 12 | 0 46 | 14 13 | 1 50 | 6 11 | 10 54 | 20 11 | 20 30 | 12 43 | | n.a. |
| T 28 | 11 19 | 17 32 | 1 21 | 5 49 | 0 9 | 14 7 | 1 24 | 14 57 | 1 13 | 21 21 | 0 41 | 21 42 | 0 44 | 3 13 | 0 46 | 14 13 | 1 50 | 6 11 | 10 54 | 20 11 | 20 31 | 12 45 | | n.a. |
| F 29 | 10 57 | 14 5 | 2 30 | 5 6 | 0 1 | 13 41 | 1 24 | 15 11 | 1 13 | 21 19 | 0 41 | 21 41 | 0 44 | 3 13 | 0 46 | 14 13 | 1 50 | 6 11 | 10 55 | 20 11 | 20 32 | 12 47 | | n.a. |
| S 30 | 10 36 | 9 47 | 3 32 | 4 22 | 0s 6 | 13 15 | 1 25 | 15 26 | 1 14 | 21 16 | 0 41 | 21 39 | 0 44 | 3 14 | 0 46 | 14 13 | 1 50 | 6 11 | 10 55 | 20 12 | 20 32 | 12 50 | | n.a. |
| S 31 | 10n14 | 4n53 | 4n21 | 3n39 | 0s13 | 12n49 | 1n25 | 15s40 | 1s14 | 21n14 | 0n41 | 21n38 | 0n45 | 3s15 | 0s46 | 14n12 | 1s50 | 6n10 | 10s55 | 20n13 | 20n33 | 12n52 | | n.a. |

Julian Day Number = 1690223.5, Delta T = 03h10m52s
Ecliptic obliquity = 23°42'15, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°14'39, Lahiri = - 5°07'38 Julian Calendar 1 Aug. 86 BCE == Greg. Calendar 30 July 086 BCE

The year -85 astronomical counting style corresponds to year 086 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 86 BCE
# geocentric

## SEPTEMBER 86 BCE (-85) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ⚸ | ☊ | ⚷ | ⚵ | ⚶ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 22 26 59 | 4♍44'26 | 12♎ 8 | 21♍54 | 1♍33 | 9♏14 | 29♋19 | 27♋32 | 23°R36 | 13°R 8 | 15°R22 | 0°R38 | 29♋ 7 | 18♉38 | n.a. | n.a. | M 1 |
| T 2 | 22 30 56 | 5°43'32 | 26°35 | 23°25 | 2°48 | 9°56 | 29°31 | 27°38 | 23♓34 | 13♉ 8 | 15♉22 | 0♌33 | 29° 3 | 18°45 | n.a. | n.a. | T 2 |
| W 3 | 22 34 52 | 6°42'41 | 11♏ 0 | 24°54 | 4° 3 | 10°39 | 29°43 | 27°45 | 23°32 | 13° 7 | 15°21 | 0°29 | 29° 0 | 18°51 | n.a. | n.a. | W 3 |
| T 4 | 22 38 49 | 7°41'51 | 25°20 | 26°23 | 5°18 | 11°21 | 29°55 | 27°51 | 23°29 | 13° 7 | 15°21 | 0°27 | 28°57 | 18°58 | n.a. | n.a. | T 4 |
| F 5 | 22 42 45 | 8°41'03 | 9♐31 | 27°50 | 6°33 | 12° 4 | 0♌ 6 | 27°58 | 23°27 | 13° 6 | 15°21 | 0°D26 | 28°54 | 19° 5 | n.a. | n.a. | F 5 |
| S 6 | 22 46 42 | 9°40'17 | 23°31 | 29°17 | 7°48 | 12°47 | 0°18 | 28° 4 | 23°25 | 13° 6 | 15°20 | 0°27 | 28°51 | 19°12 | n.a. | n.a. | S 6 |
| S 7 | 22 50 39 | 10°39'33 | 7♑21 | 0♎43 | 9° 3 | 13°30 | 0°29 | 28°11 | 23°22 | 13° 5 | 15°20 | 0°28 | 28°48 | 19°18 | n.a. | n.a. | S 7 |
| M 8 | 22 54 35 | 11°38'50 | 20°58 | 2° 7 | 10°18 | 14°13 | 0°41 | 28°17 | 23°20 | 13° 5 | 15°20 | 0°30 | 28°44 | 19°25 | n.a. | n.a. | M 8 |
| T 9 | 22 58 32 | 12°38'10 | 4♒24 | 3°31 | 11°33 | 14°56 | 0°52 | 28°23 | 23°18 | 13° 4 | 15°19 | 0°R30 | 28°41 | 19°32 | n.a. | n.a. | T 9 |
| W10 | 23 2 28 | 13°37'31 | 17°39 | 4°54 | 12°49 | 15°39 | 1° 3 | 28°29 | 23°15 | 13° 3 | 15°19 | 0°28 | 28°38 | 19°38 | n.a. | n.a. | W10 |
| T 11 | 23 6 25 | 14°36'54 | 0♓42 | 6°16 | 14° 4 | 16°23 | 1°14 | 28°35 | 23°13 | 13° 3 | 15°18 | 0°25 | 28°35 | 19°45 | n.a. | n.a. | T 11 |
| F 12 | 23 10 21 | 15°36'20 | 13°34 | 7°36 | 15°19 | 17° 6 | 1°25 | 28°41 | 23°10 | 13° 2 | 15°18 | 0°19 | 28°32 | 19°52 | n.a. | n.a. | F 12 |
| S 13 | 23 14 18 | 16°35'47 | 26°12 | 8°56 | 16°34 | 17°49 | 1°36 | 28°47 | 23° 8 | 13° 1 | 15°17 | 0°12 | 28°29 | 19°59 | n.a. | n.a. | S 13 |
| S 14 | 23 18 14 | 17°35'17 | 8♈39 | 10°14 | 17°49 | 18°33 | 1°47 | 28°53 | 23° 6 | 13° 0 | 15°17 | 0° 3 | 28°25 | 20° 5 | n.a. | n.a. | S 14 |
| M15 | 23 22 11 | 18°34'49 | 20°54 | 11°31 | 19° 4 | 19°17 | 1°58 | 28°59 | 23° 3 | 12°59 | 15°16 | 29♋54 | 28°22 | 20°12 | n.a. | n.a. | M15 |
| T 16 | 23 26 8 | 19°34'23 | 2♉58 | 12°47 | 20°20 | 20° 0 | 2° 9 | 29° 5 | 23° 1 | 12°59 | 15°16 | 29°45 | 28°19 | 20°19 | n.a. | n.a. | T 16 |
| W17 | 23 30 4 | 20°33'59 | 14°55 | 14° 1 | 21°35 | 20°44 | 2°20 | 29°11 | 22°58 | 12°58 | 15°15 | 29°38 | 28°16 | 20°25 | n.a. | n.a. | W17 |
| T 18 | 23 34 1 | 21°33'38 | 26°46 | 15°14 | 22°50 | 21°28 | 2°30 | 29°16 | 22°56 | 12°57 | 15°14 | 29°32 | 28°13 | 20°32 | n.a. | n.a. | T 18 |
| F 19 | 23 37 57 | 22°33'19 | 8♊37 | 16°24 | 24° 5 | 22°12 | 2°41 | 29°22 | 22°53 | 12°56 | 15°14 | 29°29 | 28° 9 | 20°39 | n.a. | n.a. | F 19 |
| S 20 | 23 41 54 | 23°33'03 | 20°31 | 17°34 | 25°20 | 22°56 | 2°51 | 29°27 | 22°51 | 12°55 | 15°13 | 29°D28 | 28° 6 | 20°46 | n.a. | n.a. | S 20 |
| S 21 | 23 45 50 | 24°32'49 | 2♋35 | 18°41 | 26°36 | 23°40 | 3° 2 | 29°33 | 22°48 | 12°54 | 15°12 | 29°28 | 28° 3 | 20°52 | n.a. | n.a. | S 21 |
| M22 | 23 49 47 | 25°32'37 | 14°52 | 19°45 | 27°51 | 24°24 | 3°12 | 29°38 | 22°46 | 12°53 | 15°12 | 29°29 | 28° 0 | 20°59 | n.a. | n.a. | M22 |
| T 23 | 23 53 43 | 26°32'28 | 27°28 | 20°48 | 29° 6 | 25° 9 | 3°22 | 29°44 | 22°44 | 12°52 | 15°11 | 29°R30 | 27°57 | 21° 6 | n.a. | n.a. | T 23 |
| W24 | 23 57 40 | 27°32'21 | 10♌28 | 21°48 | 0♎22 | 25°53 | 3°32 | 29°49 | 22°41 | 12°51 | 15°10 | 29°29 | 27°54 | 21°12 | n.a. | n.a. | W24 |
| T 25 | 0 1 36 | 28°32'16 | 23°54 | 22°45 | 1°37 | 26°38 | 3°42 | 29°54 | 22°39 | 12°50 | 15°10 | 29°26 | 27°50 | 21°19 | n.a. | n.a. | T 25 |
| F 26 | 0 5 33 | 29°32'13 | 7♍46 | 23°38 | 2°52 | 27°22 | 3°52 | 29°59 | 22°36 | 12°49 | 15° 9 | 29°21 | 27°47 | 21°26 | n.a. | n.a. | F 26 |
| S 27 | 0 9 30 | 0♎32'12 | 22° 4 | 24°28 | 4° 8 | 28° 7 | 4° 2 | 0♌ 4 | 22°34 | 12°47 | 15° 8 | 29°14 | 27°44 | 21°33 | n.a. | n.a. | S 27 |
| S 28 | 0 13 26 | 1°32'14 | 6♎42 | 25°14 | 5°23 | 28°51 | 4°12 | 0° 9 | 22°31 | 12°46 | 15° 7 | 29° 4 | 27°41 | 21°39 | n.a. | n.a. | S 28 |
| M29 | 0 17 23 | 2°32'17 | 21°32 | 25°56 | 6°38 | 29°36 | 4°21 | 0°14 | 22°29 | 12°45 | 15° 6 | 28°54 | 27°38 | 21°46 | n.a. | n.a. | M29 |
| T 30 | 0 21 19 | 3♎32'22 | 6♏26 | 26♎33 | 7♎53 | 0♐21 | 4♌31 | 0♌19 | 22♓27 | 12♉44 | 15♉ 6 | 28♋45 | 27♋34 | 21♉53 | n.a. | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ⚸ | ☊ | ⚷ | | ⚵ | ⚶ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 9n53 | 0s20 | 4n55 | 2n56 | 0s20 | 12n22 | 1n25 | 15s54 | 1s15 | 21n11 | 0n41 | 21n37 | 0n45 | 3s16 | 0s46 | 14n12 | 1s50 | 6n10 | 10s55 | 20n14 | 20n34 | 12n54 | | n.a. |
| T 2 | 9 31 | 5 33 | 5 10 | 2 13 | 0 28 | 11 54 | 1 25 | 16 8 | 1 15 | 21 9 | 0 41 | 21 36 | 0 45 | 3 17 | 0 46 | 14 12 | 1 50 | 6 10 | 10 55 | 20 15 | 20 34 | 12 56 | | n.a. |
| W 3 | 9 9 | 10 27 | 5 6 | 1 31 | 0 35 | 11 27 | 1 25 | 16 22 | 1 16 | 21 7 | 0 42 | 21 35 | 0 45 | 3 18 | 0 46 | 14 12 | 1 50 | 6 10 | 10 56 | 20 16 | 20 35 | 12 58 | | n.a. |
| T 4 | 8 47 | 14 44 | 4 42 | 0 49 | 0 42 | 10 59 | 1 25 | 16 36 | 1 16 | 21 4 | 0 42 | 21 33 | 0 45 | 3 19 | 0 46 | 14 12 | 1 50 | 6 9 | 10 56 | 20 17 | 20 36 | 13 0 | | n.a. |
| F 5 | 8 24 | 18 8 | 4 2 | 0 7 | 0 50 | 10 31 | 1 24 | 16 50 | 1 16 | 21 2 | 0 42 | 21 32 | 0 45 | 3 20 | 0 46 | 14 12 | 1 50 | 6 9 | 10 56 | 20 17 | 20 36 | 13 2 | | n.a. |
| S 6 | 8 2 | 20 26 | 3 7 | 0s35 | 0 57 | 10 2 | 1 24 | 17 4 | 1 17 | 21 0 | 0 42 | 21 31 | 0 45 | 3 21 | 0 46 | 14 11 | 1 50 | 6 9 | 10 56 | 20 17 | 20 37 | 13 4 | | n.a. |
| S 7 | 7 39 | 21 28 | 2 2 | 1 16 | 1 4 | 9 33 | 1 24 | 17 18 | 1 17 | 20 57 | 0 42 | 21 30 | 0 46 | 3 22 | 0 46 | 14 11 | 1 50 | 6 8 | 10 56 | 20 16 | 20 38 | 13 6 | | n.a. |
| M 8 | 7 16 | 21 12 | 0 51 | 1 57 | 1 12 | 9 4 | 1 23 | 17 31 | 1 18 | 20 55 | 0 42 | 21 29 | 0 46 | 3 23 | 0 46 | 14 11 | 1 51 | 6 8 | 10 57 | 20 16 | 20 38 | 13 9 | | n.a. |
| T 9 | 6 53 | 19 43 | 0s21 | 2 37 | 1 19 | 8 35 | 1 23 | 17 44 | 1 18 | 20 53 | 0 43 | 21 28 | 0 46 | 3 24 | 0 46 | 14 11 | 1 51 | 6 8 | 10 57 | 20 16 | 20 39 | 13 11 | | n.a. |
| W10 | 6 30 | 17 10 | 1 32 | 3 17 | 1 26 | 8 5 | 1 22 | 17 58 | 1 18 | 20 50 | 0 43 | 21 26 | 0 46 | 3 25 | 0 46 | 14 10 | 1 51 | 6 8 | 10 57 | 20 16 | 20 40 | 13 13 | | n.a. |
| T 11 | 6 7 | 13 46 | 2 36 | 3 56 | 1 33 | 7 36 | 1 22 | 18 11 | 1 19 | 20 48 | 0 43 | 21 25 | 0 46 | 3 26 | 0 46 | 14 10 | 1 51 | 6 7 | 10 57 | 20 17 | 20 40 | 13 15 | | n.a. |
| F 12 | 5 44 | 9 46 | 3 31 | 4 35 | 1 40 | 7 6 | 1 21 | 18 24 | 1 19 | 20 46 | 0 43 | 21 24 | 0 46 | 3 27 | 0 46 | 14 10 | 1 51 | 6 7 | 10 57 | 20 18 | 20 41 | 13 17 | | n.a. |
| S 13 | 5 21 | 5 25 | 4 15 | 5 13 | 1 47 | 6 36 | 1 21 | 18 36 | 1 20 | 20 43 | 0 43 | 21 23 | 0 46 | 3 28 | 0 46 | 14 10 | 1 51 | 6 7 | 10 57 | 20 20 | 20 42 | 13 19 | | n.a. |
| S 14 | 4 57 | 0 54 | 4 46 | 5 50 | 1 54 | 6 5 | 1 20 | 18 49 | 1 20 | 20 41 | 0 43 | 21 22 | 0 47 | 3 29 | 0 46 | 14 9 | 1 51 | 6 6 | 10 58 | 20 22 | 20 42 | 13 21 | | n.a. |
| M15 | 4 34 | 3n34 | 5 3 | 6 27 | 2 0 | 5 35 | 1 19 | 19 2 | 1 20 | 20 39 | 0 44 | 21 21 | 0 47 | 3 29 | 0 46 | 14 9 | 1 51 | 6 6 | 10 58 | 20 24 | 20 43 | 13 23 | | n.a. |
| T 16 | 4 10 | 7 51 | 5 6 | 7 3 | 2 7 | 5 4 | 1 18 | 19 14 | 1 21 | 20 37 | 0 44 | 21 20 | 0 47 | 3 30 | 0 46 | 14 9 | 1 51 | 6 6 | 10 58 | 20 26 | 20 44 | 13 25 | | n.a. |
| W17 | 3 47 | 11 47 | 4 56 | 7 38 | 2 13 | 4 33 | 1 17 | 19 26 | 1 21 | 20 34 | 0 44 | 21 19 | 0 47 | 3 31 | 0 46 | 14 8 | 1 51 | 6 5 | 10 58 | 20 27 | 20 44 | 13 27 | | n.a. |
| T 18 | 3 23 | 15 13 | 4 33 | 8 12 | 2 19 | 4 2 | 1 16 | 19 38 | 1 21 | 20 32 | 0 44 | 21 18 | 0 47 | 3 32 | 0 46 | 14 8 | 1 51 | 6 5 | 10 58 | 20 28 | 20 45 | 13 29 | | n.a. |
| F 19 | 2 59 | 18 4 | 3 58 | 8 45 | 2 25 | 3 31 | 1 15 | 19 50 | 1 22 | 20 30 | 0 44 | 21 17 | 0 47 | 3 33 | 0 46 | 14 8 | 1 51 | 6 5 | 10 58 | 20 29 | 20 46 | 13 32 | | n.a. |
| S 20 | 2 35 | 20 9 | 3 13 | 9 17 | 2 30 | 3 0 | 1 14 | 20 2 | 1 22 | 20 27 | 0 44 | 21 16 | 0 47 | 3 34 | 0 46 | 14 7 | 1 51 | 6 4 | 10 58 | 20 29 | 20 46 | 13 34 | | n.a. |
| S 21 | 2 11 | 21 22 | 2 19 | 9 47 | 2 36 | 2 29 | 1 13 | 20 13 | 1 22 | 20 25 | 0 45 | 21 15 | 0 48 | 3 35 | 0 46 | 14 7 | 1 51 | 6 4 | 10 59 | 20 29 | 20 47 | 13 36 | | n.a. |
| M22 | 1 47 | 21 35 | 1 18 | 10 17 | 2 41 | 1 57 | 1 12 | 20 25 | 1 22 | 20 23 | 0 45 | 21 14 | 0 48 | 3 36 | 0 46 | 14 7 | 1 51 | 6 4 | 10 59 | 20 29 | 20 47 | 13 38 | | n.a. |
| T 23 | 1 23 | 20 43 | 0 11 | 10 45 | 2 45 | 1 26 | 1 10 | 20 36 | 1 23 | 20 21 | 0 45 | 21 13 | 0 48 | 3 37 | 0 46 | 14 6 | 1 51 | 6 3 | 10 59 | 20 29 | 20 48 | 13 40 | | n.a. |
| W24 | 0 59 | 18 45 | 0n58 | 11 12 | 2 49 | 0 54 | 1 9 | 20 47 | 1 23 | 20 19 | 0 45 | 21 12 | 0 48 | 3 38 | 0 46 | 14 6 | 1 51 | 6 3 | 10 59 | 20 29 | 20 49 | 13 42 | | n.a. |
| T 25 | 0 35 | 15 41 | 2 7 | 11 37 | 2 53 | 0 23 | 1 8 | 20 58 | 1 23 | 20 16 | 0 45 | 21 11 | 0 48 | 3 39 | 0 46 | 14 6 | 1 51 | 6 3 | 10 59 | 20 30 | 20 49 | 13 44 | | n.a. |
| F 26 | 0 11 | 11 40 | 3 9 | 12 0 | 2 56 | 0s 9 | 1 6 | 21 8 | 1 23 | 20 14 | 0 46 | 21 10 | 0 48 | 3 40 | 0 46 | 14 5 | 1 51 | 6 2 | 10 59 | 20 31 | 20 50 | 13 46 | | n.a. |
| S 27 | 0s13 | 6 53 | 4 2 | 12 21 | 2 59 | 0 40 | 1 5 | 21 19 | 1 24 | 20 12 | 0 46 | 21 9 | 0 49 | 3 41 | 0 46 | 14 5 | 1 51 | 6 2 | 10 59 | 20 32 | 20 51 | 13 48 | | n.a. |
| S 28 | 0 37 | 1 36 | 4 40 | 12 40 | 3 1 | 1 12 | 1 3 | 21 29 | 1 24 | 20 10 | 0 46 | 21 8 | 0 49 | 3 42 | 0 46 | 14 4 | 1 51 | 6 2 | 11 0 | 20 34 | 20 51 | 13 50 | | n.a. |
| M29 | 1 1 | 3s51 | 5 1 | 12 57 | 3 2 | 1 43 | 1 1 | 21 39 | 1 24 | 20 8 | 0 46 | 21 7 | 0 49 | 3 43 | 0 46 | 14 4 | 1 51 | 6 1 | 11 0 | 20 36 | 20 52 | 13 52 | | n.a. |
| T 30 | 1s25 | 9s 5 | 5n 0 | 13s10 | 3s 2 | 2s15 | 1n 0 | 21s49 | 1s24 | 20n 6 | 0n46 | 21n 6 | 0n49 | 3s44 | 0s46 | 14n 4 | 1s51 | 6n 1 | 11s 0 | 20n38 | 20n53 | 13n54 | | n.a. |

Julian Day Number = 1690254.5, Delta T = 03h10m51s
Ecliptic obliquity = 23°42'16, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°14'34, Lahiri = - 5°07'34 Julian Calendar 1 Sept. 86 BCE == Greg. Calendar 30 Aug. 086 BCE


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# ASTRODIENST EPHEMERIS for the year 86 BCE
# geocentric

## OCTOBER 86 BCE (-85) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 0 25 16 | 4♎32'29 | 21♏15 | 27♎ 4 | 9♎ 9 | 1♐ 6 | 4♌40 | 0♌23 | 22°R24 | 12°R43 | 15°R 5 | 28°R36 | 27♋31 | 21♉59 | n.a. | W 1 |
| T 2 | 0 29 12 | 5°32'38 | 5♐53 | 27°29 | 10°24 | 1°51 | 4°49 | 0°28 | 22♓22 | 12♉41 | 15♉ 4 | 28♋31 | 27°28 | 22° 6 | n.a. | T 2 |
| F 3 | 0 33 9 | 6°32'49 | 20°13 | 27°48 | 11°39 | 2°36 | 4°58 | 0°33 | 22°19 | 12°40 | 15° 3 | 28°27 | 27°25 | 22°13 | n.a. | F 3 |
| S 4 | 0 37 5 | 7°33'01 | 4♑14 | 27°59 | 12°55 | 3°21 | 5° 7 | 0°37 | 22°17 | 12°39 | 15° 2 | 28°D26 | 27°22 | 22°19 | n.a. | S 4 |
| S 5 | 0 41 2 | 8°33'15 | 17°55 | 28°R 2 | 14°10 | 4° 6 | 5°16 | 0°41 | 22°15 | 12°37 | 15° 1 | 28°26 | 27°19 | 22°26 | n.a. | S 5 |
| M 6 | 0 44 59 | 9°33'30 | 1♒19 | 27°57 | 15°25 | 4°51 | 5°25 | 0°46 | 22°12 | 12°36 | 15° 0 | 28°R27 | 27°15 | 22°33 | n.a. | M 6 |
| T 7 | 0 48 55 | 10°33'47 | 14°27 | 27°43 | 16°41 | 5°36 | 5°34 | 0°50 | 22°10 | 12°35 | 15° 0 | 28°26 | 27°12 | 22°40 | n.a. | T 7 |
| W 8 | 0 52 52 | 11°34'06 | 27°22 | 27°19 | 17°56 | 6°21 | 5°42 | 0°54 | 22° 8 | 12°33 | 14°59 | 28°22 | 27° 9 | 22°46 | n.a. | W 8 |
| T 9 | 0 56 48 | 12°34'26 | 10♓ 4 | 26°46 | 19°11 | 7° 7 | 5°51 | 0°58 | 22° 6 | 12°32 | 14°58 | 28°16 | 27° 6 | 22°53 | n.a. | T 9 |
| F 10 | 1 0 45 | 13°34'47 | 22°37 | 26° 3 | 20°27 | 7°52 | 5°59 | 1° 2 | 22° 3 | 12°30 | 14°57 | 28° 7 | 27° 3 | 23° 0 | n.a. | F 10 |
| S 11 | 1 4 41 | 14°35'10 | 5♈ 0 | 25°10 | 21°42 | 8°38 | 6° 7 | 1° 6 | 22° 1 | 12°29 | 14°56 | 27°55 | 27° 0 | 23° 6 | n.a. | S 11 |
| S 12 | 1 8 38 | 15°35'35 | 17°15 | 24° 8 | 22°57 | 9°23 | 6°15 | 1° 9 | 21°59 | 12°28 | 14°55 | 27°41 | 26°56 | 23°13 | n.a. | S 12 |
| M13 | 1 12 34 | 16°36'02 | 29°21 | 22°59 | 24°13 | 10° 9 | 6°23 | 1°13 | 21°57 | 12°26 | 14°54 | 27°27 | 26°53 | 23°20 | n.a. | M13 |
| T 14 | 1 16 31 | 17°36'31 | 11♉20 | 21°44 | 25°28 | 10°54 | 6°31 | 1°17 | 21°55 | 12°25 | 14°53 | 27°13 | 26°50 | 23°27 | n.a. | T 14 |
| W15 | 1 20 27 | 18°37'01 | 23°14 | 20°25 | 26°43 | 11°40 | 6°39 | 1°20 | 21°53 | 12°23 | 14°52 | 27° 1 | 26°47 | 23°33 | n.a. | W15 |
| T 16 | 1 24 24 | 19°37'33 | 5♊ 4 | 19° 4 | 27°59 | 12°26 | 6°46 | 1°23 | 21°50 | 12°22 | 14°51 | 26°51 | 26°44 | 23°40 | n.a. | T 16 |
| F 17 | 1 28 21 | 20°38'07 | 16°53 | 17°45 | 29°14 | 13°11 | 6°54 | 1°27 | 21°48 | 12°20 | 14°50 | 26°44 | 26°40 | 23°47 | n.a. | F 17 |
| S 18 | 1 32 17 | 21°38'43 | 28°46 | 16°29 | 0♏29 | 13°57 | 7° 1 | 1°30 | 21°46 | 12°18 | 14°49 | 26°40 | 26°37 | 23°53 | n.a. | S 18 |
| S 19 | 1 36 14 | 22°39'21 | 10♋46 | 15°20 | 1°45 | 14°43 | 7° 8 | 1°33 | 21°44 | 12°17 | 14°48 | 26°39 | 26°34 | 24° 0 | n.a. | S 19 |
| M20 | 1 40 10 | 23°40'01 | 22°59 | 14°19 | 3° 0 | 15°29 | 7°15 | 1°36 | 21°42 | 12°15 | 14°47 | 26°38 | 26°31 | 24° 7 | n.a. | M20 |
| T 21 | 1 44 7 | 24°40'42 | 5♌30 | 13°28 | 4°15 | 16°15 | 7°22 | 1°39 | 21°40 | 12°14 | 14°46 | 26°38 | 26°28 | 24°14 | n.a. | T 21 |
| W22 | 1 48 3 | 25°41'25 | 18°25 | 12°48 | 5°31 | 17° 1 | 7°28 | 1°41 | 21°39 | 12°12 | 14°44 | 26°37 | 26°25 | 24°20 | n.a. | W22 |
| T 23 | 1 52 0 | 26°42'10 | 1♍47 | 12°19 | 6°46 | 17°47 | 7°35 | 1°44 | 21°37 | 12°10 | 14°43 | 26°34 | 26°21 | 24°27 | n.a. | T 23 |
| F 24 | 1 55 56 | 27°42'57 | 15°39 | 12° 3 | 8° 1 | 18°33 | 7°41 | 1°47 | 21°35 | 12° 9 | 14°42 | 26°28 | 26°18 | 24°34 | n.a. | F 24 |
| S 25 | 1 59 53 | 28°43'45 | 0♎ 1 | 11°D57 | 9°17 | 19°19 | 7°48 | 1°49 | 21°33 | 12° 7 | 14°41 | 26°19 | 26°15 | 24°40 | n.a. | S 25 |
| S 26 | 2 3 50 | 29°44'35 | 14°49 | 12° 3 | 10°32 | 20° 5 | 7°54 | 1°51 | 21°31 | 12° 5 | 14°40 | 26° 9 | 26°12 | 24°47 | n.a. | S 26 |
| M27 | 2 7 46 | 0♏45'26 | 29°56 | 12°19 | 11°47 | 20°51 | 8° 0 | 1°54 | 21°29 | 12° 4 | 14°39 | 25°57 | 26° 9 | 24°54 | n.a. | M27 |
| T 28 | 2 11 43 | 1°46'18 | 15♏11 | 12°44 | 13° 3 | 21°38 | 8° 5 | 1°56 | 21°28 | 12° 2 | 14°38 | 25°45 | 26° 5 | 25° 0 | n.a. | T 28 |
| W29 | 2 15 39 | 2°47'12 | 0♐23 | 13°18 | 14°18 | 22°24 | 8°11 | 1°58 | 21°26 | 12° 0 | 14°37 | 25°35 | 26° 2 | 25° 7 | n.a. | W29 |
| T 30 | 2 19 36 | 3°48'07 | 15°21 | 13°59 | 15°33 | 23°10 | 8°16 | 2° 0 | 21°24 | 11°59 | 14°36 | 25°28 | 25°59 | 25°14 | n.a. | T 30 |
| F 31 | 2 23 32 | 4♏49'03 | 29♐59 | 14♎47 | 16♏48 | 23♐57 | 8♌22 | 2♌ 2 | 21♓23 | 11♉57 | 14♉34 | 25♋23 | 25♋56 | 25♉21 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 1 s49 | 13 s46 | 4n40 | 13 s22 | 3 s 2 | 2 s47 | 0n58 | 21 s59 | 1 s24 | 20n 4 | 0n47 | 21n 5 | 0n49 | 3 s45 | 0 s46 | 14n 3 | 1 s52 | 6n 1 | 11 s 0 | 20n40 | 20n53 | 13n56 | | n.a. |
| T 2 | 2 14 | 17 34 | 4 1 | 13 30 | 3 0 | 3 18 | 0 56 | 22 8 | 1 24 | 20 2 | 0 47 | 21 5 | 0 49 | 3 46 | 0 46 | 14 3 | 1 52 | 6 0 | 11 0 | 20 41 | 20 54 | 13 58 | | n.a. |
| F 3 | 2 38 | 20 13 | 3 8 | 13 34 | 2 58 | 3 49 | 0 55 | 22 18 | 1 25 | 20 0 | 0 47 | 21 4 | 0 49 | 3 47 | 0 46 | 14 2 | 1 52 | 6 0 | 11 0 | 20 42 | 20 54 | 14 0 | | n.a. |
| S 4 | 3 2 | 21 33 | 2 5 | 13 35 | 2 54 | 4 21 | 0 53 | 22 27 | 1 25 | 19 57 | 0 47 | 21 3 | 0 50 | 3 48 | 0 46 | 14 2 | 1 52 | 6 0 | 11 0 | 20 42 | 20 55 | 14 3 | | n.a. |
| S 5 | 3 26 | 21 34 | 0 56 | 13 31 | 2 49 | 4 52 | 0 51 | 22 35 | 1 25 | 19 55 | 0 47 | 21 2 | 0 50 | 3 49 | 0 46 | 14 2 | 1 52 | 5 59 | 11 0 | 20 42 | 20 56 | 14 5 | | n.a. |
| M 6 | 3 50 | 20 20 | 0 s15 | 13 23 | 2 43 | 5 23 | 0 49 | 22 44 | 1 25 | 19 54 | 0 48 | 21 1 | 0 50 | 3 50 | 0 46 | 14 1 | 1 52 | 5 59 | 11 0 | 20 42 | 20 56 | 14 7 | | n.a. |
| T 7 | 4 14 | 18 1 | 1 24 | 13 11 | 2 34 | 5 54 | 0 47 | 22 52 | 1 25 | 19 52 | 0 48 | 21 1 | 0 50 | 3 50 | 0 46 | 14 1 | 1 52 | 5 59 | 11 1 | 20 42 | 20 57 | 14 9 | | n.a. |
| W 8 | 4 37 | 14 49 | 2 27 | 12 53 | 2 25 | 6 25 | 0 45 | 23 1 | 1 25 | 19 50 | 0 48 | 21 0 | 0 50 | 3 51 | 0 46 | 14 0 | 1 52 | 5 58 | 11 1 | 20 43 | 20 58 | 14 11 | | n.a. |
| T 9 | 5 1 | 10 58 | 3 21 | 12 30 | 2 13 | 6 56 | 0 43 | 23 8 | 1 25 | 19 48 | 0 48 | 20 59 | 0 51 | 3 52 | 0 46 | 14 0 | 1 52 | 5 58 | 11 1 | 20 44 | 20 58 | 14 13 | | n.a. |
| F 10 | 5 25 | 6 42 | 4 5 | 12 2 | 2 0 | 7 27 | 0 41 | 23 16 | 1 25 | 19 46 | 0 48 | 20 58 | 0 51 | 3 53 | 0 46 | 13 59 | 1 52 | 5 58 | 11 1 | 20 46 | 20 59 | 14 15 | | n.a. |
| S 11 | 5 49 | 2 13 | 4 37 | 11 28 | 1 45 | 7 57 | 0 39 | 23 24 | 1 26 | 19 44 | 0 49 | 20 58 | 0 51 | 3 54 | 0 46 | 13 59 | 1 52 | 5 57 | 11 1 | 20 48 | 20 59 | 14 17 | | n.a. |
| S 12 | 6 12 | 2n18 | 4 55 | 10 50 | 1 28 | 8 27 | 0 37 | 23 31 | 1 26 | 19 42 | 0 49 | 20 57 | 0 51 | 3 55 | 0 46 | 13 58 | 1 52 | 5 57 | 11 1 | 20 51 | 21 0 | 14 19 | | n.a. |
| M13 | 6 36 | 6 42 | 5 0 | 10 7 | 1 10 | 8 57 | 0 35 | 23 38 | 1 26 | 19 40 | 0 49 | 20 56 | 0 51 | 3 56 | 0 46 | 13 58 | 1 52 | 5 57 | 11 1 | 20 54 | 21 1 | 14 21 | | n.a. |
| T 14 | 6 59 | 10 47 | 4 51 | 9 20 | 0 51 | 9 27 | 0 32 | 23 44 | 1 26 | 19 39 | 0 49 | 20 56 | 0 51 | 3 57 | 0 46 | 13 57 | 1 52 | 5 56 | 11 1 | 20 57 | 21 1 | 14 23 | | n.a. |
| W15 | 7 22 | 14 26 | 4 30 | 8 32 | 0 30 | 9 57 | 0 30 | 23 51 | 1 26 | 19 37 | 0 49 | 20 55 | 0 52 | 3 57 | 0 46 | 13 57 | 1 52 | 5 56 | 11 1 | 20 59 | 21 2 | 14 25 | | n.a. |
| T 16 | 7 46 | 17 30 | 3 57 | 7 42 | 0 10 | 10 26 | 0 28 | 23 57 | 1 26 | 19 35 | 0 50 | 20 55 | 0 52 | 3 58 | 0 46 | 13 56 | 1 52 | 5 55 | 11 1 | 21 1 | 21 3 | 14 27 | | n.a. |
| F 17 | 8 9 | 19 50 | 3 14 | 6 52 | 0n11 | 10 55 | 0 26 | 24 3 | 1 26 | 19 34 | 0 50 | 20 54 | 0 52 | 3 59 | 0 46 | 13 56 | 1 52 | 5 55 | 11 1 | 21 2 | 21 3 | 14 29 | | n.a. |
| S 18 | 8 32 | 21 20 | 2 22 | 6 4 | 0 31 | 11 24 | 0 23 | 24 9 | 1 26 | 19 32 | 0 50 | 20 54 | 0 52 | 4 0 | 0 46 | 13 55 | 1 52 | 5 55 | 11 1 | 21 3 | 21 4 | 14 31 | | n.a. |
| S 19 | 8 55 | 21 53 | 1 23 | 5 20 | 0 50 | 11 53 | 0 21 | 24 14 | 1 26 | 19 30 | 0 50 | 20 53 | 0 52 | 4 1 | 0 46 | 13 55 | 1 52 | 5 54 | 11 2 | 21 4 | 21 4 | 14 33 | | n.a. |
| M20 | 9 17 | 21 24 | 0 19 | 4 40 | 1 8 | 12 21 | 0 19 | 24 19 | 1 26 | 19 29 | 0 51 | 20 53 | 0 52 | 4 1 | 0 46 | 13 54 | 1 52 | 5 54 | 11 2 | 21 4 | 21 5 | 14 35 | | n.a. |
| T 21 | 9 40 | 19 52 | 0n47 | 4 5 | 1 24 | 12 49 | 0 16 | 24 24 | 1 26 | 19 27 | 0 51 | 20 52 | 0 53 | 4 2 | 0 46 | 13 54 | 1 52 | 5 54 | 11 2 | 21 4 | 21 6 | 14 37 | | n.a. |
| W22 | 10 2 | 17 15 | 1 52 | 3 36 | 1 39 | 13 17 | 0 14 | 24 29 | 1 26 | 19 26 | 0 51 | 20 52 | 0 53 | 4 3 | 0 46 | 13 53 | 1 52 | 5 53 | 11 2 | 21 4 | 21 6 | 14 39 | | n.a. |
| T 23 | 10 24 | 13 40 | 2 54 | 3 13 | 1 51 | 13 44 | 0 12 | 24 33 | 1 26 | 19 24 | 0 51 | 20 51 | 0 53 | 4 4 | 0 46 | 13 53 | 1 52 | 5 53 | 11 2 | 21 4 | 21 7 | 14 41 | | n.a. |
| F 24 | 10 47 | 9 13 | 3 48 | 2 57 | 2 2 | 14 12 | 0 9 | 24 38 | 1 26 | 19 23 | 0 52 | 20 51 | 0 53 | 4 4 | 0 45 | 13 52 | 1 52 | 5 53 | 11 2 | 21 6 | 21 7 | 14 43 | | n.a. |
| S 25 | 11 9 | 4 6 | 4 30 | 2 47 | 2 10 | 14 38 | 0 7 | 24 41 | 1 26 | 19 21 | 0 52 | 20 50 | 0 53 | 4 5 | 0 45 | 13 52 | 1 52 | 5 52 | 11 2 | 21 7 | 21 8 | 14 45 | | n.a. |
| S 26 | 11 30 | 1 s23 | 4 54 | 2 43 | 2 17 | 15 5 | 0 4 | 24 45 | 1 25 | 19 20 | 0 52 | 20 50 | 0 54 | 4 6 | 0 45 | 13 51 | 1 52 | 5 52 | 11 2 | 21 9 | 21 9 | 14 47 | | n.a. |
| M27 | 11 52 | 6 54 | 4 59 | 2 45 | 2 22 | 15 30 | 0 2 | 24 48 | 1 25 | 19 19 | 0 52 | 20 50 | 0 54 | 4 6 | 0 45 | 13 51 | 1 52 | 5 52 | 11 2 | 21 12 | 21 9 | 14 49 | | n.a. |
| T 28 | 12 13 | 12 3 | 4 43 | 2 51 | 2 25 | 15 56 | 0 s 1 | 24 51 | 1 25 | 19 17 | 0 53 | 20 50 | 0 54 | 4 7 | 0 45 | 13 50 | 1 52 | 5 51 | 11 2 | 21 14 | 21 10 | 14 51 | | n.a. |
| W29 | 12 34 | 16 26 | 4 7 | 3 3 | 2 27 | 16 21 | 0 3 | 24 54 | 1 25 | 19 16 | 0 53 | 20 49 | 0 54 | 4 8 | 0 45 | 13 50 | 1 52 | 5 51 | 11 2 | 21 16 | 21 10 | 14 53 | | n.a. |
| T 30 | 12 55 | 19 40 | 3 14 | 3 18 | 2 28 | 16 46 | 0 5 | 24 57 | 1 25 | 19 15 | 0 53 | 20 49 | 0 54 | 4 8 | 0 45 | 13 49 | 1 52 | 5 51 | 11 2 | 21 17 | 21 11 | 14 55 | | n.a. |
| F 31 | 13 s16 | 21 s32 | 2n10 | 3 s37 | 2n28 | 17 s10 | 0 s 8 | 24 s59 | 1 s25 | 19n14 | 0n53 | 20n49 | 0n55 | 4 s 9 | 0 s45 | 13n49 | 1 s52 | 5n50 | 11 s 2 | 21n18 | 21n12 | 14n57 | | n.a. |

Julian Day Number = 1690284.5, Delta T = 03h10m51s
Ecliptic obliquity = 23°42'16, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°14'30, Lahiri = - 5°07'30 Julian Calendar 1 Oct. 86 BCE == Greg. Calendar 29 Sept. 086 BCE

The year -85 astronomical counting style corresponds to year 086 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 86 BCE
# geocentric

## NOVEMBER 86 BCE (-85) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 27 29 | 5♏50'00 | 14♑12 | 15♐41 | 18♏ 4 | 24♐43 | 8♌27 | 2♌ 3 | 21°R21 | 11°R55 | 14°R33 | 25°R21 | 25♋53 | 25♉27 | n.a. | S 1 |
| S 2 | 2 31 26 | 6°50'58 | 27°59 | 16°40 | 19°19 | 25°29 | 8°32 | 2° 5 | 21♓20 | 11♉54 | 14♉32 | 25°D21 | 25°50 | 25°34 | n.a. | S 2 |
| M 3 | 2 35 22 | 7°51'57 | 11♒23 | 17°44 | 20°34 | 26°16 | 8°36 | 2° 6 | 21°18 | 11°52 | 14°31 | 25°R21 | 25°46 | 25°41 | n.a. | M 3 |
| T 4 | 2 39 19 | 8°52'56 | 24°25 | 18°52 | 21°50 | 27° 2 | 8°41 | 2° 8 | 21°17 | 11°50 | 14°30 | 25♋20 | 25°43 | 25°47 | n.a. | T 4 |
| W 5 | 2 43 15 | 9°53'56 | 7♓ 9 | 20° 3 | 23° 5 | 27°49 | 8°46 | 2° 9 | 21°15 | 11°49 | 14°29 | 25°17 | 25°40 | 25°54 | n.a. | W 5 |
| T 6 | 2 47 12 | 10°54'57 | 19°39 | 21°17 | 24°20 | 28°35 | 8°50 | 2°10 | 21°14 | 11°47 | 14°28 | 25°12 | 25°37 | 26° 1 | n.a. | T 6 |
| F 7 | 2 51 8 | 11°55'59 | 1♈57 | 22°33 | 25°35 | 29°22 | 8°54 | 2°11 | 21°13 | 11°45 | 14°26 | 25° 3 | 25°34 | 26° 8 | n.a. | F 7 |
| S 8 | 2 55 5 | 12°57'01 | 14° 8 | 23°52 | 26°51 | 0♑ 8 | 8°58 | 2°12 | 21°12 | 11°44 | 14°25 | 24°52 | 25°31 | 26°14 | n.a. | S 8 |
| S 9 | 2 59 1 | 13°58'04 | 26°11 | 25°12 | 28° 6 | 0°55 | 9° 2 | 2°13 | 21°10 | 11°42 | 14°24 | 24°39 | 25°27 | 26°21 | n.a. | S 9 |
| M10 | 3 2 58 | 14°59'08 | 8♉ 9 | 26°34 | 29°21 | 1°41 | 9° 5 | 2°14 | 21° 9 | 11°40 | 14°23 | 24°25 | 25°24 | 26°28 | n.a. | M10 |
| T 11 | 3 6 54 | 16° 0'13 | 20° 3 | 27°58 | 0♐36 | 2°28 | 9° 9 | 2°14 | 21° 8 | 11°38 | 14°22 | 24°11 | 25°21 | 26°34 | n.a. | T 11 |
| W12 | 3 10 51 | 17° 1'19 | 1♊55 | 29°22 | 1°51 | 3°15 | 9°12 | 2°15 | 21° 7 | 11°37 | 14°21 | 23°59 | 25°18 | 26°41 | n.a. | W12 |
| T 13 | 3 14 48 | 18° 2'26 | 13°45 | 0♏48 | 3° 7 | 4° 1 | 9°15 | 2°15 | 21° 6 | 11°35 | 14°19 | 23°50 | 25°15 | 26°48 | n.a. | T 13 |
| F 14 | 3 18 44 | 19° 3'33 | 25°36 | 2°15 | 4°22 | 4°48 | 9°18 | 2°15 | 21° 5 | 11°33 | 14°18 | 23°43 | 25°11 | 26°54 | n.a. | F 14 |
| S 15 | 3 22 41 | 20° 4'42 | 7♋30 | 3°42 | 5°37 | 5°35 | 9°20 | 2°16 | 21° 4 | 11°32 | 14°17 | 23°39 | 25° 8 | 27° 1 | n.a. | S 15 |
| S 16 | 3 26 37 | 21° 5'51 | 19°32 | 5°10 | 6°52 | 6°21 | 9°23 | 2°R16 | 21° 3 | 11°30 | 14°16 | 23°D38 | 25° 5 | 27° 8 | n.a. | S 16 |
| M17 | 3 30 34 | 22° 7'01 | 1♌44 | 6°39 | 8° 7 | 7° 8 | 9°25 | 2°16 | 21° 2 | 11°28 | 14°15 | 23°38 | 25° 2 | 27°15 | n.a. | M17 |
| T 18 | 3 34 30 | 23° 8'12 | 14°13 | 8° 8 | 9°23 | 7°55 | 9°27 | 2°15 | 21° 1 | 11°27 | 14°14 | 23°39 | 24°59 | 27°21 | n.a. | T 18 |
| W19 | 3 38 27 | 24° 9'24 | 27° 2 | 9°37 | 10°38 | 8°42 | 9°29 | 2°15 | 21° 1 | 11°25 | 14°13 | 23°R39 | 24°56 | 27°28 | n.a. | W19 |
| T 20 | 3 42 24 | 25°10'37 | 10♍16 | 11° 7 | 11°53 | 9°28 | 9°31 | 2°15 | 21° 0 | 11°23 | 14°11 | 23°38 | 24°52 | 27°35 | n.a. | T 20 |
| F 21 | 3 46 20 | 26°11'50 | 23°58 | 12°37 | 13° 8 | 10°15 | 9°32 | 2°14 | 20°59 | 11°22 | 14°10 | 23°34 | 24°49 | 27°41 | n.a. | F 21 |
| S 22 | 3 50 17 | 27°13'04 | 8♎10 | 14° 8 | 14°23 | 11° 2 | 9°34 | 2°14 | 20°59 | 11°20 | 14° 9 | 23°29 | 24°46 | 27°48 | n.a. | S 22 |
| S 23 | 3 54 13 | 28°14'19 | 22°51 | 15°39 | 15°38 | 11°49 | 9°35 | 2°13 | 20°58 | 11°18 | 14° 8 | 23°21 | 24°43 | 27°55 | n.a. | S 23 |
| M24 | 3 58 10 | 29°15'34 | 7♏53 | 17°10 | 16°53 | 12°35 | 9°36 | 2°12 | 20°58 | 11°17 | 14° 7 | 23°12 | 24°40 | 28° 1 | n.a. | M24 |
| T 25 | 4 2 6 | 0♐16'50 | 23°10 | 18°42 | 18° 8 | 13°22 | 9°36 | 2°11 | 20°57 | 11°15 | 14° 6 | 23° 4 | 24°37 | 28° 8 | n.a. | T 25 |
| W26 | 4 6 3 | 1°18'06 | 8♐30 | 20°14 | 19°24 | 14° 9 | 9°37 | 2°10 | 20°57 | 11°14 | 14° 5 | 22°56 | 24°33 | 28°15 | n.a. | W26 |
| T 27 | 4 9 59 | 2°19'22 | 23°41 | 21°46 | 20°39 | 14°56 | 9°37 | 2° 9 | 20°56 | 11°12 | 14° 4 | 22°51 | 24°30 | 28°22 | n.a. | T 27 |
| F 28 | 4 13 56 | 3°20'39 | 8♑35 | 23°18 | 21°54 | 15°43 | 9°R38 | 2° 7 | 20°56 | 11°11 | 14° 3 | 22°48 | 24°27 | 28°28 | n.a. | F 28 |
| S 29 | 4 17 53 | 4°21'55 | 23° 3 | 24°51 | 23° 9 | 16°30 | 9°38 | 2° 6 | 20°56 | 11° 9 | 14° 2 | 22°D47 | 24°24 | 28°35 | n.a. | S 29 |
| S 30 | 4 21 49 | 5♐23'11 | 7♒ 4 | 26♏24 | 24♐24 | 17♑16 | 9♌37 | 2♌ 5 | 20♓56 | 11♉ 7 | 14♉ 0 | 22♋48 | 24♋21 | 28♉42 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 13s37 | 21s58 | 0n59 | 3s59 | 2n27 | 17s34 | 0s10 | 25s 1 | 1s25 | 19n13 | 0n54 | 20n49 | 0n55 | 4s 9 | 0s45 | 13n48 | 1s52 | 5n50 | 11s 2 | 21n18 | 21n12 | 14n59 | | n.a. |
| S 2 | 13 57 | 21 1 | 0s14 | 4 24 | 2 24 | 17 57 | 0 13 | 25 2 | 1 25 | 19 12 | 0 54 | 20 48 | 0 55 | 4 10 | 0 45 | 13 48 | 1 52 | 5 50 | 11 2 | 21 18 | 21 13 | 15 1 | | n.a. |
| M 3 | 14 17 | 18 54 | 1 24 | 4 51 | 2 21 | 18 20 | 0 15 | 25 4 | 1 25 | 19 11 | 0 54 | 20 48 | 0 55 | 4 11 | 0 45 | 13 47 | 1 52 | 5 49 | 11 2 | 21 18 | 21 13 | 15 3 | | n.a. |
| T 4 | 14 37 | 15 51 | 2 27 | 5 21 | 2 18 | 18 42 | 0 18 | 25 5 | 1 24 | 19 10 | 0 54 | 20 48 | 0 55 | 4 11 | 0 45 | 13 47 | 1 52 | 5 49 | 11 2 | 21 18 | 21 14 | 15 5 | | n.a. |
| W 5 | 14 57 | 12 6 | 3 22 | 5 52 | 2 14 | 19 4 | 0 20 | 25 5 | 1 24 | 19 9 | 0 55 | 20 48 | 0 55 | 4 12 | 0 45 | 13 46 | 1 52 | 5 49 | 11 2 | 21 19 | 21 15 | 15 7 | | n.a. |
| T 6 | 15 16 | 7 54 | 4 6 | 6 24 | 2 9 | 19 26 | 0 22 | 25 6 | 1 24 | 19 8 | 0 55 | 20 48 | 0 56 | 4 12 | 0 45 | 13 46 | 1 52 | 5 48 | 11 2 | 21 20 | 21 15 | 15 9 | | n.a. |
| F 7 | 15 35 | 3 27 | 4 37 | 6 58 | 2 4 | 19 46 | 0 25 | 25 6 | 1 24 | 19 7 | 0 55 | 20 48 | 0 56 | 4 13 | 0 45 | 13 45 | 1 52 | 5 48 | 11 2 | 21 22 | 21 16 | 15 11 | | n.a. |
| S 8 | 15 54 | 1n 5 | 4 56 | 7 32 | 1 58 | 20 7 | 0 27 | 25 6 | 1 24 | 19 6 | 0 55 | 20 48 | 0 56 | 4 13 | 0 45 | 13 45 | 1 52 | 5 48 | 11 2 | 21 24 | 21 16 | 15 13 | | n.a. |
| S 9 | 16 12 | 5 33 | 5 1 | 8 7 | 1 52 | 20 26 | 0 30 | 25 6 | 1 24 | 19 6 | 0 56 | 20 48 | 0 56 | 4 14 | 0 45 | 13 44 | 1 52 | 5 48 | 11 2 | 21 26 | 21 17 | 15 15 | | n.a. |
| M10 | 16 31 | 9 46 | 4 53 | 8 43 | 1 46 | 20 45 | 0 32 | 25 5 | 1 23 | 19 5 | 0 56 | 20 48 | 0 56 | 4 14 | 0 45 | 13 44 | 1 52 | 5 47 | 11 2 | 21 28 | 21 18 | 15 17 | | n.a. |
| T 11 | 16 49 | 13 36 | 4 32 | 9 19 | 1 40 | 21 4 | 0 34 | 25 4 | 1 23 | 19 4 | 0 56 | 20 48 | 0 57 | 4 14 | 0 45 | 13 43 | 1 52 | 5 47 | 11 2 | 21 31 | 21 18 | 15 19 | | n.a. |
| W12 | 17 6 | 16 53 | 3 59 | 9 56 | 1 33 | 21 22 | 0 37 | 25 3 | 1 23 | 19 4 | 0 56 | 20 48 | 0 57 | 4 15 | 0 45 | 13 43 | 1 52 | 5 47 | 11 2 | 21 33 | 21 19 | 15 21 | | n.a. |
| T 13 | 17 24 | 19 28 | 3 15 | 10 32 | 1 26 | 21 39 | 0 39 | 25 1 | 1 23 | 19 3 | 0 57 | 20 48 | 0 57 | 4 15 | 0 45 | 13 42 | 1 52 | 5 46 | 11 2 | 21 35 | 21 19 | 15 23 | | n.a. |
| F 14 | 17 41 | 21 14 | 2 24 | 11 9 | 1 19 | 21 56 | 0 41 | 24 59 | 1 23 | 19 2 | 0 57 | 20 48 | 0 57 | 4 16 | 0 45 | 13 42 | 1 52 | 5 46 | 11 1 | 21 36 | 21 20 | 15 25 | | n.a. |
| S 15 | 17 57 | 22 5 | 1 25 | 11 45 | 1 12 | 22 12 | 0 44 | 24 57 | 1 22 | 19 2 | 0 57 | 20 48 | 0 57 | 4 16 | 0 45 | 13 41 | 1 52 | 5 46 | 11 1 | 21 36 | 21 21 | 15 27 | | n.a. |
| S 16 | 18 14 | 21 54 | 0 22 | 12 22 | 1 5 | 22 27 | 0 46 | 24 55 | 1 22 | 19 2 | 0 57 | 20 49 | 0 58 | 4 16 | 0 45 | 13 40 | 1 52 | 5 46 | 11 1 | 21 37 | 21 21 | 15 29 | | n.a. |
| M17 | 18 30 | 20 42 | 0n43 | 12 58 | 0 58 | 22 42 | 0 48 | 24 52 | 1 22 | 19 1 | 0 58 | 20 49 | 0 58 | 4 16 | 0 45 | 13 40 | 1 52 | 5 45 | 11 1 | 21 37 | 21 22 | 15 31 | | n.a. |
| T 18 | 18 46 | 18 28 | 1 48 | 13 34 | 0 51 | 22 56 | 0 50 | 24 49 | 1 22 | 19 1 | 0 58 | 20 49 | 0 58 | 4 17 | 0 45 | 13 39 | 1 52 | 5 45 | 11 1 | 21 37 | 21 22 | 15 33 | | n.a. |
| W19 | 19 1 | 15 17 | 2 49 | 14 10 | 0 44 | 23 9 | 0 52 | 24 46 | 1 21 | 19 1 | 0 58 | 20 49 | 0 58 | 4 17 | 0 45 | 13 39 | 1 52 | 5 45 | 11 1 | 21 36 | 21 23 | 15 35 | | n.a. |
| T 20 | 19 16 | 11 14 | 3 43 | 14 45 | 0 37 | 23 22 | 0 55 | 24 43 | 1 21 | 19 1 | 0 59 | 20 50 | 0 58 | 4 17 | 0 45 | 13 39 | 1 52 | 5 45 | 11 1 | 21 37 | 21 23 | 15 37 | | n.a. |
| F 21 | 19 31 | 6 29 | 4 26 | 15 20 | 0 29 | 23 34 | 0 57 | 24 39 | 1 21 | 19 0 | 0 59 | 20 50 | 0 59 | 4 17 | 0 45 | 13 38 | 1 52 | 5 44 | 11 1 | 21 37 | 21 24 | 15 39 | | n.a. |
| S 22 | 19 45 | 1 14 | 4 55 | 15 54 | 0 22 | 23 45 | 0 59 | 24 35 | 1 20 | 19 0 | 0 59 | 20 50 | 0 59 | 4 18 | 0 45 | 13 38 | 1 52 | 5 44 | 11 1 | 21 38 | 21 25 | 15 41 | | n.a. |
| S 23 | 19 59 | 4s15 | 5 6 | 16 28 | 0 15 | 23 56 | 1 1 | 24 30 | 1 20 | 19 0 | 0 59 | 20 51 | 0 59 | 4 18 | 0 44 | 13 37 | 1 52 | 5 44 | 11 1 | 21 40 | 21 25 | 15 43 | | n.a. |
| M24 | 20 13 | 9 38 | 4 56 | 17 1 | 0 8 | 24 5 | 1 3 | 24 26 | 1 20 | 19 0 | 1 0 | 20 51 | 0 59 | 4 18 | 0 44 | 13 37 | 1 52 | 5 44 | 11 1 | 21 41 | 21 26 | 15 45 | | n.a. |
| T 25 | 20 26 | 14 30 | 4 25 | 17 34 | 0 1 | 24 15 | 1 5 | 24 21 | 1 20 | 19 0 | 1 0 | 20 51 | 0 59 | 4 18 | 0 44 | 13 36 | 1 52 | 5 44 | 11 1 | 21 43 | 21 26 | 15 47 | | n.a. |
| W26 | 20 39 | 18 26 | 3 35 | 18 5 | 0s 6 | 24 23 | 1 7 | 24 15 | 1 19 | 19 0 | 1 0 | 20 52 | 1 0 | 4 18 | 0 44 | 13 36 | 1 52 | 5 43 | 11 0 | 21 44 | 21 27 | 15 49 | | n.a. |
| T 27 | 20 51 | 21 3 | 2 30 | 18 37 | 0 12 | 24 31 | 1 9 | 24 10 | 1 19 | 19 1 | 1 1 | 20 52 | 1 0 | 4 18 | 0 44 | 13 35 | 1 52 | 5 43 | 11 0 | 21 45 | 21 27 | 15 51 | | n.a. |
| F 28 | 21 3 | 22 10 | 1 16 | 19 7 | 0 19 | 24 37 | 1 10 | 24 4 | 1 19 | 19 1 | 1 1 | 20 53 | 1 0 | 4 18 | 0 44 | 13 35 | 1 52 | 5 43 | 11 0 | 21 45 | 21 28 | 15 53 | | n.a. |
| S 29 | 21 15 | 21 44 | 0s 1 | 19 36 | 0 26 | 24 43 | 1 12 | 23 58 | 1 18 | 19 1 | 1 1 | 20 53 | 1 0 | 4 19 | 0 44 | 13 34 | 1 52 | 5 43 | 11 0 | 21 45 | 21 29 | 15 55 | | n.a. |
| S 30 | 21s26 | 19s56 | 1s16 | 20s 5 | 0s32 | 24s49 | 1s14 | 23s52 | 1s18 | 19n 1 | 1n 1 | 20n54 | 1n 0 | 4s19 | 0s44 | 13n34 | 1s52 | 5n43 | 11s 0 | 21n45 | 21n29 | 15n56 | | n.a. |

Julian Day Number = 1690315.5, Delta T = 03h10m50s
Ecliptic obliquity = 23°42'16, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°14'26, Lahiri = - 5°07'26 Julian Calendar 1 Nov. 86 BCE == Greg. Calendar 30 Oct. 086 BCE

The year -85 astronomical counting style corresponds to year 086 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 86 BCE
# geocentric

## DECEMBER 86 BCE (-85) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 4 25 46 | 6♐24'27 | 20♒37 | 27♏57 | 25♐39 | 18♑ 3 | 9°R37 | 2°R 3 | 20°R56 | 11°R 6 | 13°R59 | 22♋49 | 24♋17 | 28♉48 | n.a. | M 1 |
| T 2 | 4 29 42 | 7°25'43 | 3♓44 | 29°31 | 26°54 | 18°50 | 9♎36 | 2♎ 1 | 20♓56 | 11♉ 4 | 13♉58 | 22°R50 | 24°14 | 28°55 | n.a. | T 2 |
| W 3 | 4 33 39 | 8°26'59 | 16°29 | 1♐ 4 | 28° 9 | 19°37 | 9°35 | 1°59 | 20°D56 | 11° 3 | 13°57 | 22°49 | 24°11 | 29° 2 | n.a. | W 3 |
| T 4 | 4 37 35 | 9°28'14 | 28°56 | 2°38 | 29°24 | 20°24 | 9°34 | 1°58 | 20°56 | 11° 1 | 13°56 | 22°47 | 24° 8 | 29° 8 | n.a. | T 4 |
| F 5 | 4 41 32 | 10°29'28 | 11♈ 9 | 4°13 | 0♑39 | 21°11 | 9°33 | 1°56 | 20°56 | 11° 0 | 13°55 | 22°43 | 24° 5 | 29°15 | n.a. | F 5 |
| S 6 | 4 45 28 | 11°30'43 | 23°12 | 5°48 | 1°54 | 21°57 | 9°32 | 1°53 | 20°56 | 10°59 | 13°54 | 22°37 | 24° 2 | 29°22 | n.a. | S 6 |
| S 7 | 4 49 25 | 12°31'57 | 5♉ 8 | 7°23 | 3° 9 | 22°44 | 9°30 | 1°51 | 20°56 | 10°57 | 13°53 | 22°30 | 23°58 | 29°29 | n.a. | S 7 |
| M 8 | 4 53 22 | 13°33'10 | 17° 1 | 8°58 | 4°24 | 23°31 | 9°29 | 1°49 | 20°56 | 10°56 | 13°52 | 22°22 | 23°55 | 29°35 | n.a. | M 8 |
| T 9 | 4 57 18 | 14°34'24 | 28°52 | 10°34 | 5°39 | 24°18 | 9°27 | 1°46 | 20°56 | 10°54 | 13°51 | 22°14 | 23°52 | 29°42 | n.a. | T 9 |
| W10 | 5 1 15 | 15°35'37 | 10♊43 | 12°10 | 6°53 | 25° 5 | 9°24 | 1°44 | 20°57 | 10°53 | 13°50 | 22° 8 | 23°49 | 29°49 | n.a. | W10 |
| T 11 | 5 5 11 | 16°36'49 | 22°36 | 13°47 | 8° 8 | 25°51 | 9°22 | 1°41 | 20°57 | 10°52 | 13°49 | 22° 3 | 23°46 | 29°55 | n.a. | T 11 |
| F 12 | 5 9 8 | 17°38'02 | 4♋33 | 15°24 | 9°23 | 26°38 | 9°20 | 1°39 | 20°58 | 10°51 | 13°48 | 21°59 | 23°43 | 0♊ 2 | n.a. | F 12 |
| S 13 | 5 13 4 | 18°39'14 | 16°36 | 17° 1 | 10°38 | 27°25 | 9°17 | 1°36 | 20°58 | 10°49 | 13°47 | 21°D58 | 23°39 | 0° 9 | n.a. | S 13 |
| S 14 | 5 17 1 | 19°40'26 | 28°46 | 18°39 | 11°53 | 28°12 | 9°14 | 1°33 | 20°59 | 10°48 | 13°47 | 21°58 | 23°36 | 0°15 | n.a. | S 14 |
| M15 | 5 20 58 | 20°41'37 | 11♎ 7 | 20°18 | 13° 7 | 28°58 | 9°11 | 1°30 | 20°59 | 10°47 | 13°46 | 21°59 | 23°33 | 0°22 | n.a. | M15 |
| T 16 | 5 24 54 | 21°42'48 | 23°41 | 21°57 | 14°22 | 29°45 | 9° 8 | 1°27 | 21° 0 | 10°46 | 13°45 | 22° 1 | 23°30 | 0°29 | n.a. | T 16 |
| W17 | 5 28 51 | 22°43'59 | 6♏32 | 23°36 | 15°37 | 0♒32 | 9° 4 | 1°24 | 21° 1 | 10°44 | 13°44 | 22° 2 | 23°27 | 0°36 | n.a. | W17 |
| T 18 | 5 32 47 | 23°45'09 | 19°43 | 25°16 | 16°52 | 1°18 | 9° 0 | 1°20 | 21° 1 | 10°43 | 13°43 | 22°R 3 | 23°23 | 0°42 | n.a. | T 18 |
| F 19 | 5 36 44 | 24°46'19 | 3♐17 | 26°57 | 18° 6 | 2° 5 | 8°57 | 1°17 | 21° 2 | 10°42 | 13°42 | 22° 3 | 23°20 | 0°49 | n.a. | F 19 |
| S 20 | 5 40 40 | 25°47'29 | 17°15 | 28°37 | 19°21 | 2°52 | 8°53 | 1°14 | 21° 3 | 10°41 | 13°41 | 22° 1 | 23°17 | 0°56 | n.a. | S 20 |
| S 21 | 5 44 37 | 26°48'38 | 1♏37 | 0♑19 | 20°36 | 3°38 | 8°48 | 1°10 | 21° 4 | 10°40 | 13°41 | 21°59 | 23°14 | 1° 2 | n.a. | S 21 |
| M22 | 5 48 33 | 27°49'47 | 16°21 | 2° 1 | 21°50 | 4°25 | 8°44 | 1° 7 | 21° 5 | 10°39 | 13°40 | 21°56 | 23°11 | 1° 9 | n.a. | M22 |
| T 23 | 5 52 30 | 28°50'55 | 1♐20 | 3°43 | 23° 5 | 5°12 | 8°40 | 1° 3 | 21° 6 | 10°38 | 13°39 | 21°52 | 23° 8 | 1°16 | n.a. | T 23 |
| W24 | 5 56 27 | 29°52'03 | 16°27 | 5°26 | 24°20 | 5°58 | 8°35 | 0°59 | 21° 7 | 10°37 | 13°38 | 21°49 | 23° 4 | 1°22 | n.a. | W24 |
| T 25 | 6 0 23 | 0♑53'10 | 1♑32 | 7° 9 | 25°34 | 6°45 | 8°30 | 0°55 | 21° 8 | 10°36 | 13°37 | 21°47 | 23° 1 | 1°29 | n.a. | T 25 |
| F 26 | 6 4 20 | 1°54'16 | 16°26 | 8°53 | 26°49 | 7°31 | 8°25 | 0°52 | 21° 9 | 10°35 | 13°37 | 21°D46 | 22°58 | 1°36 | n.a. | F 26 |
| S 27 | 6 8 16 | 2°55'21 | 1♒ 1 | 10°37 | 28° 3 | 8°18 | 8°20 | 0°48 | 21°10 | 10°34 | 13°36 | 21°46 | 22°55 | 1°42 | n.a. | S 27 |
| S 28 | 6 12 13 | 3°56'25 | 15°11 | 12°21 | 29°18 | 9° 5 | 8°14 | 0°44 | 21°12 | 10°33 | 13°35 | 21°47 | 22°52 | 1°49 | n.a. | S 28 |
| M29 | 6 16 9 | 4°57'28 | 28°55 | 14° 6 | 0♒32 | 9°51 | 8° 9 | 0°40 | 21°13 | 10°32 | 13°35 | 21°49 | 22°49 | 1°56 | n.a. | M29 |
| T 30 | 6 20 6 | 5°58'29 | 12♓12 | 15°50 | 1°47 | 10°37 | 8° 3 | 0°35 | 21°14 | 10°31 | 13°34 | 21°50 | 22°45 | 2° 3 | n.a. | T 30 |
| W31 | 6 24 2 | 6♑59'29 | 25♓ 4 | 17♑35 | 3♒ 1 | 11♒24 | 7♎58 | 0♎31 | 21♓16 | 10♉31 | 13♉33 | 21♋51 | 22♋42 | 2♊ 9 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| M 1 | 21s37 | 17s 4 | 2s25 | 20s33 | 0s39 | 24s53 | 1s16 | 23s45 | 1s18 | 19n 2 | 1n 2 | 20n54 | 1n 1 | 4s19 | 0s44 | 13n33 | 1s52 | 5n42 | 11s 0 | 21n45 | 21n30 | 15n58 | | | n.a. |
| T 2 | 21 47 | 13 24 | 3 23 | 21 0 | 0 45 | 24 57 | 1 17 | 23 38 | 1 17 | 19 2 | 1 2 | 20 55 | 1 1 | 4 19 | 0 44 | 13 33 | 1 52 | 5 42 | 11 0 | 21 45 | 21 30 | 16 0 | | | n.a. |
| W 3 | 21 57 | 9 13 | 4 10 | 21 26 | 0 51 | 25 0 | 1 19 | 23 31 | 1 17 | 19 3 | 1 2 | 20 55 | 1 1 | 4 19 | 0 44 | 13 33 | 1 52 | 5 42 | 11 0 | 21 45 | 21 31 | 16 2 | | | n.a. |
| T 4 | 22 7 | 4 45 | 4 43 | 21 51 | 0 57 | 25 2 | 1 20 | 23 24 | 1 16 | 19 3 | 1 2 | 20 56 | 1 1 | 4 19 | 0 44 | 13 32 | 1 52 | 5 42 | 10 59 | 21 45 | 21 31 | 16 4 | | | n.a. |
| F 5 | 22 16 | 0 11 | 5 3 | 22 15 | 1 2 | 25 4 | 1 22 | 23 16 | 1 16 | 19 4 | 1 3 | 20 57 | 1 1 | 4 18 | 0 44 | 13 32 | 1 51 | 5 42 | 10 59 | 21 46 | 21 32 | 16 6 | | | n.a. |
| S 6 | 22 25 | 4n20 | 5 9 | 22 37 | 1 8 | 25 5 | 1 23 | 23 8 | 1 16 | 19 4 | 1 3 | 20 57 | 1 1 | 4 18 | 0 44 | 13 31 | 1 51 | 5 42 | 10 59 | 21 47 | 21 33 | 16 8 | | | n.a. |
| S 7 | 22 33 | 8 38 | 5 2 | 22 59 | 1 13 | 25 5 | 1 25 | 23 0 | 1 15 | 19 5 | 1 3 | 20 58 | 1 2 | 4 18 | 0 44 | 13 31 | 1 51 | 5 41 | 10 59 | 21 48 | 21 33 | 16 10 | | | n.a. |
| M 8 | 22 41 | 12 36 | 4 41 | 23 20 | 1 18 | 25 4 | 1 26 | 22 52 | 1 15 | 19 6 | 1 4 | 20 59 | 1 2 | 4 18 | 0 44 | 13 30 | 1 51 | 5 41 | 10 59 | 21 49 | 21 34 | 16 12 | | | n.a. |
| T 9 | 22 48 | 16 5 | 4 9 | 23 39 | 1 23 | 25 2 | 1 27 | 22 43 | 1 14 | 19 7 | 1 4 | 21 0 | 1 2 | 4 18 | 0 44 | 13 30 | 1 51 | 5 41 | 10 59 | 21 51 | 21 34 | 16 14 | | | n.a. |
| W10 | 22 55 | 18 54 | 3 26 | 23 57 | 1 28 | 25 0 | 1 28 | 22 34 | 1 14 | 19 8 | 1 4 | 21 0 | 1 2 | 4 18 | 0 44 | 13 30 | 1 51 | 5 41 | 10 58 | 21 52 | 21 35 | 16 16 | | | n.a. |
| T 11 | 23 1 | 20 57 | 2 33 | 24 14 | 1 33 | 24 56 | 1 29 | 22 25 | 1 14 | 19 8 | 1 4 | 21 1 | 1 2 | 4 18 | 0 44 | 13 29 | 1 51 | 5 41 | 10 58 | 21 53 | 21 35 | 16 18 | | | n.a. |
| F 12 | 23 7 | 22 4 | 1 34 | 24 30 | 1 37 | 24 52 | 1 31 | 22 15 | 1 13 | 19 9 | 1 5 | 21 2 | 1 3 | 4 17 | 0 44 | 13 29 | 1 51 | 5 41 | 10 58 | 21 53 | 21 36 | 16 20 | | | n.a. |
| S 13 | 23 13 | 22 11 | 0 29 | 24 44 | 1 41 | 24 48 | 1 32 | 22 6 | 1 13 | 19 10 | 1 5 | 21 3 | 1 3 | 4 17 | 0 44 | 13 29 | 1 51 | 5 41 | 10 58 | 21 53 | 21 36 | 16 21 | | | n.a. |
| S 14 | 23 18 | 21 14 | 0n37 | 24 57 | 1 44 | 24 42 | 1 32 | 21 56 | 1 12 | 19 11 | 1 5 | 21 3 | 1 3 | 4 17 | 0 44 | 13 28 | 1 51 | 5 41 | 10 58 | 21 53 | 21 37 | 16 23 | | | n.a. |
| M15 | 23 22 | 19 17 | 1 43 | 25 8 | 1 48 | 24 36 | 1 33 | 21 46 | 1 12 | 19 13 | 1 6 | 21 4 | 1 3 | 4 17 | 0 44 | 13 28 | 1 51 | 5 41 | 10 58 | 21 53 | 21 38 | 16 25 | | | n.a. |
| T 16 | 23 27 | 16 22 | 2 45 | 25 18 | 1 51 | 24 29 | 1 34 | 21 35 | 1 11 | 19 14 | 1 6 | 21 5 | 1 3 | 4 16 | 0 44 | 13 28 | 1 51 | 5 40 | 10 57 | 21 53 | 21 38 | 16 27 | | | n.a. |
| W17 | 23 30 | 12 37 | 3 41 | 25 27 | 1 54 | 24 21 | 1 35 | 21 25 | 1 11 | 19 15 | 1 6 | 21 6 | 1 4 | 4 16 | 0 43 | 13 27 | 1 51 | 5 40 | 10 57 | 21 53 | 21 39 | 16 29 | | | n.a. |
| T 18 | 23 33 | 8 11 | 4 26 | 25 33 | 1 56 | 24 12 | 1 36 | 21 14 | 1 10 | 19 16 | 1 6 | 21 7 | 1 4 | 4 16 | 0 43 | 13 27 | 1 51 | 5 40 | 10 57 | 21 53 | 21 39 | 16 31 | | | n.a. |
| F 19 | 23 36 | 3 14 | 4 58 | 25 38 | 1 58 | 24 3 | 1 36 | 21 3 | 1 10 | 19 17 | 1 7 | 21 8 | 1 4 | 4 15 | 0 43 | 13 27 | 1 51 | 5 40 | 10 57 | 21 53 | 21 40 | 16 33 | | | n.a. |
| S 20 | 23 38 | 2s 2 | 5 13 | 25 42 | 2 0 | 23 53 | 1 37 | 20 52 | 1 10 | 19 19 | 1 7 | 21 9 | 1 4 | 4 15 | 0 43 | 13 26 | 1 51 | 5 40 | 10 57 | 21 53 | 21 40 | 16 35 | | | n.a. |
| S 21 | 23 40 | 7 20 | 5 10 | 25 44 | 2 2 | 23 42 | 1 37 | 20 40 | 1 9 | 19 20 | 1 7 | 21 10 | 1 4 | 4 15 | 0 43 | 13 26 | 1 51 | 5 40 | 10 56 | 21 53 | 21 41 | 16 37 | | | n.a. |
| M22 | 23 41 | 12 20 | 4 46 | 25 44 | 2 3 | 23 31 | 1 38 | 20 29 | 1 9 | 19 21 | 1 7 | 21 11 | 1 4 | 4 14 | 0 43 | 13 26 | 1 51 | 5 40 | 10 56 | 21 54 | 21 41 | 16 39 | | | n.a. |
| T 23 | 23 42 | 16 41 | 4 3 | 25 42 | 2 3 | 23 19 | 1 38 | 20 17 | 1 8 | 19 23 | 1 8 | 21 12 | 1 5 | 4 14 | 0 43 | 13 26 | 1 51 | 5 40 | 10 56 | 21 54 | 21 42 | 16 40 | | | n.a. |
| W24 | 23 42 | 19 59 | 3 3 | 25 39 | 2 3 | 23 6 | 1 38 | 20 5 | 1 8 | 19 24 | 1 8 | 21 13 | 1 5 | 4 13 | 0 43 | 13 25 | 1 51 | 5 40 | 10 56 | 21 55 | 21 42 | 16 42 | | | n.a. |
| T 25 | 23 42 | 21 52 | 1 49 | 25 33 | 2 3 | 22 52 | 1 38 | 19 52 | 1 7 | 19 26 | 1 8 | 21 14 | 1 5 | 4 13 | 0 43 | 13 25 | 1 51 | 5 40 | 10 56 | 21 55 | 21 43 | 16 44 | | | n.a. |
| F 26 | 23 41 | 22 12 | 0 29 | 25 26 | 2 2 | 22 38 | 1 39 | 19 40 | 1 7 | 19 28 | 1 8 | 21 15 | 1 5 | 4 12 | 0 43 | 13 25 | 1 50 | 5 40 | 10 55 | 21 55 | 21 43 | 16 46 | | | n.a. |
| S 27 | 23 40 | 20 59 | 0s51 | 25 17 | 2 1 | 22 23 | 1 39 | 19 27 | 1 6 | 19 29 | 1 9 | 21 16 | 1 5 | 4 12 | 0 43 | 13 25 | 1 50 | 5 40 | 10 55 | 21 55 | 21 44 | 16 48 | | | n.a. |
| S 28 | 23 39 | 18 28 | 2 6 | 25 6 | 1 59 | 22 8 | 1 39 | 19 14 | 1 6 | 19 31 | 1 9 | 21 17 | 1 5 | 4 11 | 0 43 | 13 24 | 1 50 | 5 40 | 10 55 | 21 55 | 21 45 | 16 50 | | | n.a. |
| M29 | 23 37 | 14 58 | 3 11 | 24 52 | 1 56 | 21 52 | 1 39 | 19 1 | 1 5 | 19 32 | 1 9 | 21 18 | 1 5 | 4 11 | 0 43 | 13 24 | 1 50 | 5 40 | 10 55 | 21 55 | 21 45 | 16 52 | | | n.a. |
| T 30 | 23 34 | 10 49 | 4 4 | 24 37 | 1 53 | 21 35 | 1 38 | 18 48 | 1 5 | 19 34 | 1 9 | 21 19 | 1 6 | 4 10 | 0 43 | 13 24 | 1 50 | 5 40 | 10 55 | 21 55 | 21 46 | 16 54 | | | n.a. |
| W31 | 23s31 | 6s18 | 4s43 | 24s21 | 1s49 | 21s17 | 1s38 | 18s35 | 1s 4 | 19n36 | 1n10 | 21n20 | 1n 6 | 4s10 | 0s43 | 13n24 | 1s50 | 5n40 | 10s54 | 21n55 | 21n46 | 16n55 | | | n.a. |

Julian Day Number = 1690345.5, Delta T = 03h10m49s
Ecliptic obliquity = 23°42'15, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°14'22, Lahiri = - 5°07'21 Julian Calendar 1 Dec. 86 BCE == Greg. Calendar 29 Nov. 086 BCE

The year -85 astronomical counting style corresponds to year 086 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 85 BCE
# geocentric

## JANUARY 85 BCE (-84) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 27 59 | 8♉ 0'28 | 7♈35 | 19♉19 | 4♒15 | 12♒10 | 7°R52 | 0°R27 | 21♓17 | 10°R30 | 13°R33 | 21°R51 | 22♋39 | 2♊16 | n.a. | T 1 |
| F 2 | 6 31 56 | 9° 1'25 | 19°50 | 21° 3 | 5°30 | 12°57 | 7♌46 | 0♌23 | 21°19 | 10♉29 | 13♉32 | 21♋51 | 22°36 | 2°23 | n.a. | F 2 |
| S 3 | 6 35 52 | 10° 2'20 | 1♉52 | 22°47 | 6°44 | 13°43 | 7°39 | 0°18 | 21°20 | 10°28 | 13°32 | 21°50 | 22°33 | 2°29 | n.a. | S 3 |
| S 4 | 6 39 49 | 11° 3'15 | 13°46 | 24°29 | 7°58 | 14°29 | 7°33 | 0°14 | 21°22 | 10°28 | 13°31 | 21°49 | 22°29 | 2°36 | n.a. | S 4 |
| M 5 | 6 43 45 | 12° 4'07 | 25°36 | 26°10 | 9°12 | 15°16 | 7°27 | 0°10 | 21°23 | 10°27 | 13°30 | 21°47 | 22°26 | 2°43 | n.a. | M 5 |
| T 6 | 6 47 42 | 13° 4'59 | 7♊26 | 27°50 | 10°27 | 16° 2 | 7°20 | 0° 5 | 21°25 | 10°27 | 13°30 | 21°46 | 22°23 | 2°49 | n.a. | T 6 |
| W 7 | 6 51 38 | 14° 5'49 | 19°19 | 29°28 | 11°41 | 16°48 | 7°14 | 0° 1 | 21°27 | 10°26 | 13°29 | 21°45 | 22°20 | 2°56 | n.a. | W 7 |
| T 8 | 6 55 35 | 15° 6'37 | 1♋18 | 1♒ 4 | 12°55 | 17°34 | 7° 7 | 29♋56 | 21°28 | 10°25 | 13°29 | 21°44 | 22°17 | 3° 3 | n.a. | T 8 |
| F 9 | 6 59 31 | 16° 7'24 | 13°24 | 2°37 | 14° 9 | 18°21 | 7° 0 | 29°51 | 21°30 | 10°25 | 13°28 | 21°44 | 22°14 | 3°10 | n.a. | F 9 |
| S 10 | 7 3 28 | 17° 8'10 | 25°39 | 4° 7 | 15°23 | 19° 7 | 6°53 | 29°47 | 21°32 | 10°24 | 13°28 | 21°D43 | 22°10 | 3°16 | n.a. | S 10 |
| S 11 | 7 7 25 | 18° 8'54 | 8♌ 5 | 5°32 | 16°37 | 19°53 | 6°46 | 29°42 | 21°34 | 10°24 | 13°28 | 21°44 | 22° 7 | 3°23 | n.a. | S 11 |
| M12 | 7 11 21 | 19° 9'37 | 20°43 | 6°53 | 17°51 | 20°39 | 6°39 | 29°37 | 21°36 | 10°24 | 13°27 | 21°44 | 22° 4 | 3°30 | n.a. | M12 |
| T 13 | 7 15 18 | 20°10'19 | 3♍33 | 8° 9 | 19° 5 | 21°25 | 6°31 | 29°33 | 21°38 | 10°23 | 13°27 | 21°44 | 22° 1 | 3°36 | n.a. | T 13 |
| W14 | 7 19 14 | 21°10'59 | 16°38 | 9°18 | 20°18 | 22°11 | 6°24 | 29°28 | 21°40 | 10°23 | 13°26 | 21°44 | 21°58 | 3°43 | n.a. | W14 |
| T 15 | 7 23 11 | 22°11'38 | 29°58 | 10°21 | 21°32 | 22°57 | 6°17 | 29°23 | 21°42 | 10°23 | 13°26 | 21°R44 | 21°55 | 3°50 | n.a. | T 15 |
| F 16 | 7 27 7 | 23°12'15 | 13♎33 | 11°16 | 22°46 | 23°43 | 6° 9 | 29°18 | 21°44 | 10°22 | 13°26 | 21°44 | 21°51 | 3°56 | n.a. | F 16 |
| S 17 | 7 31 4 | 24°12'52 | 27°25 | 12° 3 | 24° 0 | 24°29 | 6° 2 | 29°14 | 21°46 | 10°22 | 13°26 | 21°D44 | 21°48 | 4° 3 | n.a. | S 17 |
| S 18 | 7 35 0 | 25°13'27 | 11♏33 | 12°42 | 25°13 | 25°15 | 5°54 | 29° 9 | 21°49 | 10°22 | 13°25 | 21°44 | 21°45 | 4°10 | n.a. | S 18 |
| M19 | 7 38 57 | 26°14'00 | 25°56 | 13°11 | 26°27 | 26° 1 | 5°46 | 29° 4 | 21°51 | 10°22 | 13°25 | 21°45 | 21°42 | 4°16 | n.a. | M19 |
| T 20 | 7 42 54 | 27°14'33 | 10♐30 | 13°30 | 27°40 | 26°47 | 5°39 | 28°59 | 21°53 | 10°22 | 13°25 | 21°45 | 21°39 | 4°23 | n.a. | T 20 |
| W21 | 7 46 50 | 28°15'04 | 25°10 | 13°R39 | 28°54 | 27°32 | 5°31 | 28°54 | 21°55 | 10°21 | 13°25 | 21°46 | 21°35 | 4°30 | n.a. | W21 |
| T 22 | 7 50 47 | 29°15'33 | 9♑52 | 13°37 | 0♓ 7 | 28°18 | 5°23 | 28°49 | 21°58 | 10°21 | 13°24 | 21°46 | 21°32 | 4°36 | n.a. | T 22 |
| F 23 | 7 54 43 | 0♒16'01 | 24°28 | 13°26 | 1°21 | 29° 4 | 5°15 | 28°45 | 22° 0 | 10°D21 | 13°24 | 21°R46 | 21°29 | 4°43 | n.a. | F 23 |
| S 24 | 7 58 40 | 1°16'27 | 8♒51 | 13° 5 | 2°34 | 29°49 | 5° 8 | 28°40 | 22° 2 | 10°21 | 13°24 | 21°46 | 21°26 | 4°50 | n.a. | S 24 |
| S 25 | 8 2 36 | 2°16'51 | 22°58 | 12°34 | 3°47 | 0♓35 | 5° 0 | 28°35 | 22° 5 | 10°21 | 13°24 | 21°45 | 21°23 | 4°57 | n.a. | S 25 |
| M26 | 8 6 33 | 3°17'14 | 6♓42 | 11°55 | 5° 1 | 1°21 | 4°52 | 28°30 | 22° 7 | 10°21 | 13°24 | 21°44 | 21°20 | 5° 3 | n.a. | M26 |
| T 27 | 8 10 30 | 4°17'34 | 20° 4 | 11° 8 | 6°14 | 2° 6 | 4°44 | 28°25 | 22°10 | 10°22 | 13°24 | 21°42 | 21°16 | 5°10 | n.a. | T 27 |
| W28 | 8 14 26 | 5°17'52 | 3♈ 1 | 10°15 | 7°27 | 2°52 | 4°36 | 28°20 | 22°13 | 10°22 | 13°24 | 21°40 | 21°13 | 5°17 | n.a. | W28 |
| T 29 | 8 18 23 | 6°18'08 | 15°38 | 9°17 | 8°40 | 3°37 | 4°28 | 28°16 | 22°15 | 10°22 | 13°24 | 21°39 | 21°10 | 5°23 | n.a. | T 29 |
| F 30 | 8 22 19 | 7°18'22 | 27°56 | 8°16 | 9°53 | 4°23 | 4°20 | 28°11 | 22°18 | 10°22 | 13°D24 | 21°38 | 21° 7 | 5°30 | n.a. | F 30 |
| S 31 | 8 26 16 | 8♒18'33 | 10♉ 1 | 7♒13 | 11♓ 6 | 5♓ 8 | 4♌12 | 28♋ 6 | 22♓20 | 10♉22 | 13♉24 | 21°D37 | 21♋ 4 | 5♊37 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 23s28 | 1s39 | 5s 7 | 24s 2 | 1s45 | 20s59 | 1s38 | 18s21 | 1s 4 | 19n38 | 1n10 | 21n21 | 1n 6 | 4s 9 | 0s43 | 13n24 | 1s50 | 5n40 | 10s54 | 21n55 | 21n47 | 16n57 | | | n.a. |
| F 2 | 23 24 | 2n58 | 5 16 | 23 41 | 1 40 | 20 41 | 1 37 | 18 7 | 1 3 | 19 39 | 1 10 | 21 22 | 1 6 | 4 8 | 0 43 | 13 23 | 1 50 | 5 40 | 10 54 | 21 55 | 21 47 | 16 59 | | | n.a. |
| S 3 | 23 19 | 7 23 | 5 12 | 23 18 | 1 34 | 20 21 | 1 37 | 17 53 | 1 2 | 19 41 | 1 10 | 21 23 | 1 6 | 4 8 | 0 43 | 13 23 | 1 50 | 5 40 | 10 54 | 21 55 | 21 48 | 17 1 | | | n.a. |
| S 4 | 23 14 | 11 28 | 4 54 | 22 54 | 1 28 | 20 2 | 1 36 | 17 39 | 1 2 | 19 43 | 1 10 | 21 24 | 1 6 | 4 7 | 0 43 | 13 23 | 1 50 | 5 40 | 10 53 | 21 55 | 21 48 | 17 3 | | | n.a. |
| M 5 | 23 9 | 15 7 | 4 23 | 22 28 | 1 20 | 19 41 | 1 36 | 17 25 | 1 1 | 19 45 | 1 11 | 21 25 | 1 7 | 4 6 | 0 43 | 13 23 | 1 50 | 5 40 | 10 53 | 21 55 | 21 49 | 17 5 | | | n.a. |
| T 6 | 23 3 | 18 9 | 3 42 | 22 0 | 1 12 | 19 20 | 1 35 | 17 10 | 1 1 | 19 47 | 1 11 | 21 26 | 1 7 | 4 6 | 0 43 | 13 23 | 1 50 | 5 41 | 10 53 | 21 55 | 21 49 | 17 7 | | | n.a. |
| W 7 | 22 57 | 20 26 | 2 50 | 21 31 | 1 3 | 18 59 | 1 34 | 16 56 | 1 0 | 19 49 | 1 11 | 21 28 | 1 7 | 4 5 | 0 43 | 13 23 | 1 50 | 5 41 | 10 53 | 21 56 | 21 50 | 17 8 | | | n.a. |
| T 8 | 22 50 | 21 51 | 1 51 | 21 1 | 0 53 | 18 37 | 1 33 | 16 41 | 1 0 | 19 51 | 1 11 | 21 29 | 1 7 | 4 4 | 0 43 | 13 23 | 1 50 | 5 41 | 10 52 | 21 56 | 21 50 | 17 10 | | | n.a. |
| F 9 | 22 43 | 22 15 | 0 46 | 20 29 | 0 43 | 18 14 | 1 33 | 16 26 | 0 59 | 19 53 | 1 11 | 21 30 | 1 7 | 4 3 | 0 43 | 13 22 | 1 50 | 5 41 | 10 52 | 21 56 | 21 51 | 17 12 | | | n.a. |
| S 10 | 22 36 | 21 36 | 0n22 | 19 57 | 0 31 | 17 51 | 1 31 | 16 11 | 0 59 | 19 55 | 1 12 | 21 31 | 1 7 | 4 3 | 0 43 | 13 22 | 1 50 | 5 41 | 10 52 | 21 56 | 21 51 | 17 14 | | | n.a. |
| S 11 | 22 28 | 19 53 | 1 30 | 19 24 | 0 19 | 17 28 | 1 30 | 15 56 | 0 58 | 19 57 | 1 12 | 21 32 | 1 7 | 4 2 | 0 43 | 13 22 | 1 50 | 5 41 | 10 52 | 21 56 | 21 52 | 17 16 | | | n.a. |
| M12 | 22 19 | 17 11 | 2 34 | 18 51 | 0 6 | 17 4 | 1 29 | 15 40 | 0 57 | 19 59 | 1 12 | 21 33 | 1 7 | 4 1 | 0 42 | 13 22 | 1 49 | 5 41 | 10 51 | 21 56 | 21 52 | 17 18 | | | n.a. |
| T 13 | 22 10 | 13 36 | 3 32 | 18 18 | 0n 8 | 16 40 | 1 28 | 15 25 | 0 57 | 20 1 | 1 12 | 21 34 | 1 8 | 4 0 | 0 42 | 13 22 | 1 49 | 5 41 | 10 51 | 21 56 | 21 53 | 17 19 | | | n.a. |
| W14 | 22 1 | 9 19 | 4 20 | 17 46 | 0 23 | 16 15 | 1 27 | 15 9 | 0 56 | 20 3 | 1 12 | 21 35 | 1 8 | 3 59 | 0 42 | 13 22 | 1 49 | 5 42 | 10 51 | 21 56 | 21 53 | 17 21 | | | n.a. |
| T 15 | 21 51 | 4 31 | 4 55 | 17 14 | 0 38 | 15 50 | 1 25 | 14 54 | 0 56 | 20 5 | 1 13 | 21 37 | 1 8 | 3 58 | 0 42 | 13 22 | 1 49 | 5 42 | 10 51 | 21 56 | 21 54 | 17 23 | | | n.a. |
| F 16 | 21 41 | 0s35 | 5 14 | 16 44 | 0 54 | 15 24 | 1 24 | 14 38 | 0 55 | 20 7 | 1 13 | 21 38 | 1 8 | 3 58 | 0 42 | 13 22 | 1 49 | 5 42 | 10 50 | 21 56 | 21 54 | 17 25 | | | n.a. |
| S 17 | 21 31 | 5 45 | 5 16 | 16 15 | 1 10 | 14 58 | 1 22 | 14 22 | 0 55 | 20 9 | 1 13 | 21 39 | 1 8 | 3 57 | 0 42 | 13 22 | 1 49 | 5 42 | 10 50 | 21 56 | 21 55 | 17 27 | | | n.a. |
| S 18 | 21 20 | 10 44 | 4 59 | 15 48 | 1 26 | 14 31 | 1 21 | 14 6 | 0 54 | 20 11 | 1 13 | 21 40 | 1 8 | 3 56 | 0 42 | 13 22 | 1 49 | 5 42 | 10 50 | 21 56 | 21 56 | 17 29 | | | n.a. |
| M19 | 21 8 | 15 12 | 4 23 | 15 24 | 1 43 | 14 5 | 1 19 | 13 49 | 0 53 | 20 13 | 1 13 | 21 41 | 1 8 | 3 55 | 0 42 | 13 22 | 1 49 | 5 42 | 10 50 | 21 56 | 21 56 | 17 30 | | | n.a. |
| T 20 | 20 57 | 18 49 | 3 30 | 15 3 | 1 59 | 13 37 | 1 17 | 13 33 | 0 53 | 20 15 | 1 13 | 21 42 | 1 8 | 3 54 | 0 42 | 13 22 | 1 49 | 5 43 | 10 49 | 21 55 | 21 57 | 17 32 | | | n.a. |
| W21 | 20 44 | 21 15 | 2 22 | 14 45 | 2 16 | 13 10 | 1 16 | 13 17 | 0 52 | 20 17 | 1 13 | 21 43 | 1 8 | 3 53 | 0 42 | 13 22 | 1 49 | 5 43 | 10 49 | 21 55 | 21 57 | 17 34 | | | n.a. |
| T 22 | 20 32 | 22 15 | 1 6 | 14 30 | 2 31 | 12 42 | 1 14 | 13 0 | 0 52 | 20 19 | 1 14 | 21 44 | 1 9 | 3 52 | 0 42 | 13 22 | 1 49 | 5 43 | 10 49 | 21 55 | 21 58 | 17 36 | | | n.a. |
| F 23 | 20 19 | 21 43 | 0s15 | 14 19 | 2 46 | 12 14 | 1 12 | 12 43 | 0 51 | 20 21 | 1 14 | 21 46 | 1 9 | 3 51 | 0 42 | 13 22 | 1 49 | 5 43 | 10 48 | 21 55 | 21 58 | 17 38 | | | n.a. |
| S 24 | 20 6 | 19 45 | 1 33 | 14 12 | 3 0 | 11 45 | 1 10 | 12 27 | 0 50 | 20 23 | 1 14 | 21 47 | 1 9 | 3 50 | 0 42 | 13 22 | 1 49 | 5 43 | 10 48 | 21 55 | 21 59 | 17 39 | | | n.a. |
| S 25 | 19 52 | 16 36 | 2 45 | 14 8 | 3 13 | 11 17 | 1 8 | 12 10 | 0 50 | 20 25 | 1 14 | 21 48 | 1 9 | 3 49 | 0 42 | 13 22 | 1 49 | 5 44 | 10 48 | 21 56 | 21 59 | 17 41 | | | n.a. |
| M26 | 19 38 | 12 37 | 3 44 | 14 8 | 3 24 | 10 47 | 1 5 | 11 53 | 0 49 | 20 27 | 1 14 | 21 49 | 1 9 | 3 48 | 0 42 | 13 22 | 1 49 | 5 44 | 10 48 | 21 56 | 22 0 | 17 43 | | | n.a. |
| T 27 | 19 24 | 8 6 | 4 30 | 14 12 | 3 34 | 10 18 | 1 3 | 11 36 | 0 49 | 20 30 | 1 14 | 21 50 | 1 9 | 3 47 | 0 42 | 13 22 | 1 48 | 5 44 | 10 47 | 21 56 | 22 0 | 17 45 | | | n.a. |
| W28 | 19 9 | 3 22 | 5 0 | 14 19 | 3 41 | 9 49 | 1 1 | 11 19 | 0 48 | 20 32 | 1 14 | 21 51 | 1 9 | 3 46 | 0 42 | 13 23 | 1 48 | 5 44 | 10 47 | 21 56 | 22 1 | 17 46 | | | n.a. |
| T 29 | 18 54 | 1n23 | 5 15 | 14 29 | 3 46 | 9 19 | 0 59 | 11 1 | 0 47 | 20 34 | 1 14 | 21 52 | 1 9 | 3 45 | 0 42 | 13 23 | 1 48 | 5 45 | 10 47 | 21 57 | 22 1 | 17 48 | | | n.a. |
| F 30 | 18 39 | 5 58 | 5 15 | 14 42 | 3 50 | 8 49 | 0 56 | 10 44 | 0 47 | 20 36 | 1 14 | 21 53 | 1 9 | 3 44 | 0 42 | 13 23 | 1 48 | 5 45 | 10 47 | 21 57 | 22 2 | 17 50 | | | n.a. |
| S 31 | 18s23 | 10n14 | 5s 0 | 14s57 | 3n51 | 8s19 | 0s54 | 10s27 | 0s46 | 20n38 | 1n15 | 21n54 | 1n 9 | 3s43 | 0s42 | 13n23 | 1s48 | 5n45 | 10s46 | 21n57 | 22n 2 | 17n52 | | | n.a. |

Julian Day Number = 1690376.5, Delta T = 03h10m48s
Ecliptic obliquity = 23°42'15, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°14'18, Lahiri = - 5°07'17 Julian Calendar 1 Jan. 85 BCE == Greg. Calendar 30 Dec. 086 BCE

The year -84 astronomical counting style corresponds to year 085 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 85 BCE
# geocentric

## FEBRUARY 85 BCE (-84) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 30 12 | 9♒18'43 | 21♉55 | 6°R 9 | 12♓19 | 5♓53 | 4°R 5 | 28°R 2 | 22♓23 | 10♉23 | 13♉24 | 21♋38 | 21♋ 0 | 5♊43 | n.a. | S 1 |
| M 2 | 8 34 9 | 10°18'50 | 3♊46 | 5♒ 7 | 13°32 | 6°39 | 3♌57 | 27♋57 | 22°26 | 10°23 | 13°24 | 21°39 | 20°57 | 5°50 | n.a. | M 2 |
| T 3 | 8 38 5 | 11°18'55 | 15°36 | 4° 7 | 14°44 | 7°24 | 3°49 | 27°52 | 22°29 | 10°23 | 13°24 | 21°41 | 20°54 | 5°57 | n.a. | T 3 |
| W 4 | 8 42 2 | 12°18'58 | 27°31 | 3°11 | 15°57 | 8° 9 | 3°41 | 27°48 | 22°31 | 10°24 | 13°24 | 21°42 | 20°51 | 6° 3 | n.a. | W 4 |
| T 5 | 8 45 58 | 13°18'59 | 9♋35 | 2°19 | 17° 9 | 8°54 | 3°34 | 27°43 | 22°34 | 10°24 | 13°24 | 21°44 | 20°48 | 6°10 | n.a. | T 5 |
| F 6 | 8 49 55 | 14°18'58 | 21°50 | 1°33 | 18°22 | 9°39 | 3°26 | 27°38 | 22°37 | 10°24 | 13°24 | 21°R44 | 20°45 | 6°17 | n.a. | F 6 |
| S 7 | 8 53 52 | 15°18'54 | 4♌19 | 0°53 | 19°34 | 10°25 | 3°18 | 27°34 | 22°40 | 10°25 | 13°24 | 21°44 | 20°41 | 6°23 | n.a. | S 7 |
| S 8 | 8 57 48 | 16°18'49 | 17° 3 | 0°20 | 20°47 | 11°10 | 3°11 | 27°30 | 22°43 | 10°25 | 13°25 | 21°42 | 20°38 | 6°30 | n.a. | S 8 |
| M 9 | 9 1 45 | 17°18'41 | 0♍ 2 | 29♎53 | 21°59 | 11°55 | 3° 3 | 27°25 | 22°46 | 10°26 | 13°25 | 21°39 | 20°35 | 6°37 | n.a. | M 9 |
| T 10 | 9 5 41 | 18°18'32 | 13°17 | 29°32 | 23°11 | 12°39 | 2°56 | 27°21 | 22°49 | 10°27 | 13°25 | 21°35 | 20°32 | 6°43 | n.a. | T 10 |
| W11 | 9 9 38 | 19°18'20 | 26°46 | 29°18 | 24°23 | 13°24 | 2°49 | 27°16 | 22°52 | 10°27 | 13°25 | 21°30 | 20°29 | 6°50 | n.a. | W11 |
| T 12 | 9 13 34 | 20°18'07 | 10♎26 | 29°11 | 25°35 | 14° 9 | 2°41 | 27°12 | 22°55 | 10°28 | 13°26 | 21°26 | 20°26 | 6°57 | n.a. | T 12 |
| F 13 | 9 17 31 | 21°17'51 | 24°17 | 29°D10 | 26°47 | 14°54 | 2°34 | 27° 8 | 22°58 | 10°29 | 13°26 | 21°23 | 20°22 | 7° 4 | n.a. | F 13 |
| S 14 | 9 21 27 | 22°17'34 | 8♏16 | 29°15 | 27°59 | 15°39 | 2°27 | 27° 4 | 23° 1 | 10°29 | 13°26 | 21°21 | 20°19 | 7°10 | n.a. | S 14 |
| S 15 | 9 25 24 | 23°17'15 | 22°22 | 29°26 | 29°11 | 16°23 | 2°20 | 27° 0 | 23° 4 | 10°30 | 13°26 | 21°D20 | 20°16 | 7°17 | n.a. | S 15 |
| M16 | 9 29 21 | 24°16'55 | 6♐32 | 29°42 | 0♈22 | 17° 8 | 2°13 | 26°56 | 23° 7 | 10°31 | 13°27 | 21°20 | 20°13 | 7°24 | n.a. | M16 |
| T 17 | 9 33 17 | 25°16'32 | 20°46 | 0♒ 4 | 1°34 | 17°53 | 2° 6 | 26°52 | 23°10 | 10°32 | 13°27 | 21°22 | 20°10 | 7°30 | n.a. | T 17 |
| W18 | 9 37 14 | 26°16'08 | 5♑ 0 | 0°30 | 2°46 | 18°37 | 2° 0 | 26°48 | 23°13 | 10°32 | 13°28 | 21°23 | 20° 6 | 7°37 | n.a. | W18 |
| T 19 | 9 41 10 | 27°15'42 | 19°13 | 1° 1 | 3°57 | 19°22 | 1°53 | 26°44 | 23°16 | 10°33 | 13°28 | 21°R24 | 20° 3 | 7°44 | n.a. | T 19 |
| F 20 | 9 45 7 | 28°15'14 | 3♒21 | 1°37 | 5° 8 | 20° 6 | 1°47 | 26°40 | 23°19 | 10°34 | 13°29 | 21°23 | 20° 0 | 7°50 | n.a. | F 20 |
| S 21 | 9 49 3 | 29°14'44 | 17°21 | 2°16 | 6°19 | 20°51 | 1°40 | 26°37 | 23°23 | 10°35 | 13°29 | 21°21 | 19°57 | 7°57 | n.a. | S 21 |
| S 22 | 9 53 0 | 0♓14'12 | 1♓ 9 | 2°59 | 7°31 | 21°35 | 1°34 | 26°33 | 23°26 | 10°36 | 13°29 | 21°17 | 19°54 | 8° 4 | n.a. | S 22 |
| M23 | 9 56 56 | 1°13'37 | 14°41 | 3°46 | 8°42 | 22°20 | 1°28 | 26°29 | 23°29 | 10°37 | 13°30 | 21°11 | 19°51 | 8°10 | n.a. | M23 |
| T 24 | 10 0 53 | 2°13'01 | 27°56 | 4°36 | 9°53 | 23° 4 | 1°22 | 26°26 | 23°32 | 10°38 | 13°31 | 21° 3 | 19°47 | 8°17 | n.a. | T 24 |
| W25 | 10 4 50 | 3°12'22 | 10♈51 | 5°30 | 11° 3 | 23°48 | 1°16 | 26°23 | 23°36 | 10°39 | 13°31 | 20°56 | 19°44 | 8°24 | n.a. | W25 |
| T 26 | 10 8 46 | 4°11'40 | 23°27 | 6°26 | 12°14 | 24°32 | 1°11 | 26°19 | 23°39 | 10°40 | 13°32 | 20°49 | 19°41 | 8°30 | n.a. | T 26 |
| F 27 | 10 12 43 | 5°10'57 | 5♉47 | 7°25 | 13°25 | 25°17 | 1° 5 | 26°16 | 23°42 | 10°41 | 13°32 | 20°44 | 19°38 | 8°37 | n.a. | F 27 |
| S 28 | 10 16 39 | 6°10'11 | 17°52 | 8°27 | 14°35 | 26° 1 | 1° 0 | 26°13 | 23°45 | 10°43 | 13°33 | 20°40 | 19°35 | 8°44 | n.a. | S 28 |
| S 29 | 10 20 36 | 7♓ 9'23 | 29♉47 | 9♒32 | 15♈46 | 26♓45 | 0♌55 | 26♋10 | 23♓49 | 10♉44 | 13♉33 | 20♋38 | 19♋32 | 8♊50 | n.a. | S 29 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 18s 7 | 14n 3 | 4s33 | 15s14 | 3n49 | 7s48 | 0s51 | 10s 9 | 0s46 | 20n39 | 1n15 | 21n55 | 1n 9 | 3s42 | 0s42 | 13n23 | 1s48 | 5n45 | 10s46 | 21n57 | 22n 3 | 17n54 | | n.a. |
| M 2 | 17 51 | 17 17 | 3 55 | 15 33 | 3 46 | 7 18 | 0 49 | 9 52 | 0 45 | 20 41 | 1 15 | 21 56 | 1 9 | 3 41 | 0 42 | 13 23 | 1 48 | 5 46 | 10 46 | 21 56 | 22 3 | 17 55 | | n.a. |
| T 3 | 17 34 | 19 50 | 3 7 | 15 52 | 3 41 | 6 47 | 0 46 | 9 34 | 0 44 | 20 43 | 1 15 | 21 57 | 1 10 | 3 39 | 0 42 | 13 23 | 1 48 | 5 46 | 10 45 | 21 56 | 22 4 | 17 57 | | n.a. |
| W 4 | 17 18 | 21 31 | 2 10 | 16 12 | 3 34 | 6 16 | 0 43 | 9 17 | 0 44 | 20 45 | 1 15 | 21 58 | 1 10 | 3 38 | 0 42 | 13 24 | 1 48 | 5 46 | 10 45 | 21 56 | 22 4 | 17 59 | | n.a. |
| T 5 | 17 0 | 22 15 | 1 7 | 16 32 | 3 25 | 5 45 | 0 40 | 8 59 | 0 43 | 20 47 | 1 15 | 21 59 | 1 10 | 3 37 | 0 42 | 13 24 | 1 48 | 5 46 | 10 45 | 21 56 | 22 5 | 18 1 | | n.a. |
| F 6 | 16 43 | 21 55 | 0n 1 | 16 51 | 3 16 | 5 13 | 0 38 | 8 41 | 0 42 | 20 49 | 1 15 | 22 0 | 1 10 | 3 36 | 0 42 | 13 24 | 1 48 | 5 47 | 10 45 | 21 56 | 22 5 | 18 2 | | n.a. |
| S 7 | 16 25 | 20 30 | 1 9 | 17 11 | 3 4 | 4 42 | 0 35 | 8 23 | 0 42 | 20 51 | 1 15 | 22 1 | 1 10 | 3 35 | 0 42 | 13 24 | 1 48 | 5 47 | 10 44 | 21 56 | 22 6 | 18 4 | | n.a. |
| S 8 | 16 7 | 18 2 | 2 15 | 17 30 | 2 53 | 4 11 | 0 32 | 8 6 | 0 41 | 20 53 | 1 15 | 22 2 | 1 10 | 3 34 | 0 42 | 13 24 | 1 48 | 5 47 | 10 44 | 21 56 | 22 6 | 18 6 | | n.a. |
| M 9 | 15 49 | 14 37 | 3 15 | 17 48 | 2 40 | 3 39 | 0 29 | 7 48 | 0 41 | 20 54 | 1 15 | 22 3 | 1 10 | 3 32 | 0 42 | 13 25 | 1 48 | 5 48 | 10 44 | 21 57 | 22 6 | 18 8 | | n.a. |
| T 10 | 15 31 | 10 25 | 4 6 | 18 5 | 2 27 | 3 8 | 0 26 | 7 30 | 0 40 | 20 56 | 1 15 | 22 4 | 1 10 | 3 31 | 0 42 | 13 25 | 1 48 | 5 48 | 10 44 | 21 57 | 22 7 | 18 9 | | n.a. |
| W11 | 15 12 | 5 39 | 4 44 | 18 21 | 2 13 | 2 36 | 0 23 | 7 12 | 0 39 | 20 58 | 1 15 | 22 5 | 1 10 | 3 30 | 0 42 | 13 25 | 1 47 | 5 48 | 10 43 | 21 58 | 22 7 | 18 11 | | n.a. |
| T 12 | 14 53 | 0 32 | 5 7 | 18 36 | 1 59 | 2 4 | 0 19 | 6 54 | 0 39 | 21 0 | 1 15 | 22 6 | 1 10 | 3 29 | 0 42 | 13 26 | 1 47 | 5 49 | 10 43 | 21 59 | 22 8 | 18 13 | | n.a. |
| F 13 | 14 34 | 4s41 | 5 13 | 18 50 | 1 46 | 1 32 | 0 16 | 6 36 | 0 38 | 21 1 | 1 15 | 22 7 | 1 10 | 3 28 | 0 42 | 13 26 | 1 47 | 5 49 | 10 43 | 21 59 | 22 8 | 18 15 | | n.a. |
| S 14 | 14 14 | 9 42 | 4 59 | 19 2 | 1 32 | 1 1 | 0 13 | 6 18 | 0 37 | 21 3 | 1 15 | 22 7 | 1 10 | 3 26 | 0 42 | 13 26 | 1 47 | 5 49 | 10 43 | 21 59 | 22 9 | 18 16 | | n.a. |
| S 15 | 13 54 | 14 14 | 4 28 | 19 13 | 1 18 | 0 29 | 0 10 | 5 59 | 0 37 | 21 5 | 1 15 | 22 8 | 1 10 | 3 25 | 0 42 | 13 26 | 1 47 | 5 50 | 10 42 | 22 0 | 22 9 | 18 18 | | n.a. |
| M16 | 13 34 | 18 1 | 3 41 | 19 23 | 1 5 | 0n 3 | 0 6 | 5 41 | 0 36 | 21 6 | 1 15 | 22 9 | 1 10 | 3 24 | 0 41 | 13 27 | 1 47 | 5 50 | 10 42 | 21 59 | 22 10 | 18 20 | | n.a. |
| T 17 | 13 14 | 20 44 | 2 40 | 19 31 | 0 51 | 0 35 | 0 3 | 5 23 | 0 35 | 21 8 | 1 15 | 22 10 | 1 10 | 3 23 | 0 41 | 13 27 | 1 47 | 5 50 | 10 42 | 21 59 | 22 10 | 18 22 | | n.a. |
| W18 | 12 54 | 22 8 | 1 28 | 19 38 | 0 38 | 1 7 | 0n 0 | 5 5 | 0 35 | 21 9 | 1 15 | 22 11 | 1 10 | 3 21 | 0 41 | 13 27 | 1 47 | 5 51 | 10 41 | 21 59 | 22 11 | 18 23 | | n.a. |
| T 19 | 12 33 | 22 7 | 0 12 | 19 44 | 0 26 | 1 39 | 0 4 | 4 47 | 0 34 | 21 11 | 1 15 | 22 11 | 1 10 | 3 20 | 0 41 | 13 28 | 1 47 | 5 51 | 10 41 | 21 59 | 22 11 | 18 25 | | n.a. |
| F 20 | 12 13 | 20 40 | 1s 5 | 19 48 | 0 13 | 2 10 | 0 7 | 4 28 | 0 34 | 21 12 | 1 15 | 22 12 | 1 10 | 3 19 | 0 41 | 13 28 | 1 47 | 5 52 | 10 41 | 21 59 | 22 12 | 18 27 | | n.a. |
| S 21 | 11 52 | 17 58 | 2 17 | 19 51 | 0 2 | 2 42 | 0 11 | 4 10 | 0 33 | 21 14 | 1 15 | 22 13 | 1 10 | 3 17 | 0 41 | 13 28 | 1 47 | 5 52 | 10 41 | 21 59 | 22 12 | 18 28 | | n.a. |
| S 22 | 11 31 | 14 17 | 3 19 | 19 52 | 0s10 | 3 14 | 0 14 | 3 52 | 0 32 | 21 15 | 1 15 | 22 14 | 1 10 | 3 16 | 0 41 | 13 29 | 1 47 | 5 52 | 10 40 | 22 0 | 22 13 | 18 30 | | n.a. |
| M23 | 11 9 | 9 55 | 4 9 | 19 52 | 0 21 | 3 45 | 0 18 | 3 34 | 0 32 | 21 16 | 1 15 | 22 14 | 1 10 | 3 15 | 0 41 | 13 29 | 1 47 | 5 53 | 10 40 | 22 1 | 22 13 | 18 32 | | n.a. |
| T 24 | 10 48 | 5 11 | 4 45 | 19 50 | 0 32 | 4 17 | 0 21 | 3 15 | 0 31 | 21 18 | 1 15 | 22 15 | 1 10 | 3 14 | 0 41 | 13 29 | 1 47 | 5 53 | 10 40 | 22 2 | 22 14 | 18 34 | | n.a. |
| W25 | 10 26 | 0 19 | 5 4 | 19 47 | 0 42 | 4 48 | 0 25 | 2 57 | 0 30 | 21 19 | 1 15 | 22 16 | 1 10 | 3 12 | 0 41 | 13 30 | 1 47 | 5 54 | 10 40 | 22 3 | 22 14 | 18 35 | | n.a. |
| T 26 | 10 5 | 4n26 | 5 9 | 19 42 | 0 51 | 5 19 | 0 29 | 2 39 | 0 30 | 21 20 | 1 15 | 22 16 | 1 10 | 3 11 | 0 41 | 13 30 | 1 47 | 5 54 | 10 39 | 22 4 | 22 15 | 18 37 | | n.a. |
| F 27 | 9 43 | 8 54 | 4 59 | 19 36 | 1 1 | 5 51 | 0 32 | 2 20 | 0 29 | 21 21 | 1 15 | 22 17 | 1 10 | 3 10 | 0 41 | 13 31 | 1 46 | 5 54 | 10 39 | 22 5 | 22 15 | 18 39 | | n.a. |
| S 28 | 9 21 | 12 56 | 4 35 | 19 28 | 1 9 | 6 22 | 0 36 | 2 2 | 0 28 | 21 22 | 1 15 | 22 18 | 1 10 | 3 8 | 0 41 | 13 31 | 1 46 | 5 55 | 10 39 | 22 6 | 22 15 | 18 40 | | n.a. |
| S 29 | 8s59 | 16n25 | 4s 0 | 19s19 | 1s18 | 6n53 | 0n39 | 1s44 | 0s28 | 21n24 | 1n15 | 22n18 | 1n10 | 3s 7 | 0s41 | 13n32 | 1s46 | 5n55 | 10s39 | 22n 6 | 22n16 | 18n42 | | n.a. |

Julian Day Number = 1690407.5, Delta T = 03h10m47s
Ecliptic obliquity = 23°42'16, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°14'13, Lahiri = - 5°07'13 Julian Calendar 1 Feb. 85 BCE == Greg. Calendar 30 Jan. 085 BCE

The year -84 astronomical counting style corresponds to year 085 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 85 BCE
# geocentric

## MARCH 85 BCE (-84) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 10 24 32 | 8♓ 8'32 | 11♊38 | 10♒39 | 16♈56 | 27♓29 | 0°R50 | 26°R 7 | 23♓52 | 10♉45 | 13♉34 | 20°D38 | 19♋28 | 8♊57 | n.a. | M 1 |
| T 2 | 10 28 29 | 9° 7'39 | 23°28 | 11°48 | 18° 6 | 28°13 | 0♌45 | 26♋ 4 | 23°55 | 10°46 | 13°35 | 20♋39 | 19°25 | 9° 4 | n.a. | T 2 |
| W 3 | 10 32 25 | 10° 6'43 | 5♋24 | 12°59 | 19°16 | 28°57 | 0°40 | 26° 1 | 23°59 | 10°47 | 13°35 | 20°40 | 19°22 | 9°10 | n.a. | W 3 |
| T 4 | 10 36 22 | 11° 5'46 | 17°30 | 14°13 | 20°26 | 29°40 | 0°35 | 25°58 | 24° 2 | 10°49 | 13°36 | 20°R41 | 19°19 | 9°17 | n.a. | T 4 |
| F 5 | 10 40 18 | 12° 4'46 | 29°51 | 15°29 | 21°36 | 0♈24 | 0°31 | 25°56 | 24° 5 | 10°50 | 13°37 | 20°40 | 19°16 | 9°24 | n.a. | F 5 |
| S 6 | 10 44 15 | 13° 3'43 | 12♌30 | 16°46 | 22°46 | 1° 8 | 0°27 | 25°53 | 24° 9 | 10°51 | 13°38 | 20°38 | 19°12 | 9°30 | n.a. | S 6 |
| S 7 | 10 48 12 | 14° 2'38 | 25°29 | 18° 6 | 23°55 | 1°52 | 0°23 | 25°51 | 24°12 | 10°53 | 13°38 | 20°33 | 19° 9 | 9°37 | n.a. | S 7 |
| M 8 | 10 52 8 | 15° 1'31 | 8♍49 | 19°27 | 25° 4 | 2°35 | 0°19 | 25°49 | 24°16 | 10°54 | 13°39 | 20°27 | 19° 6 | 9°44 | n.a. | M 8 |
| T 9 | 10 56 5 | 16° 0'22 | 22°28 | 20°50 | 26°14 | 3°19 | 0°15 | 25°46 | 24°19 | 10°56 | 13°40 | 20°18 | 19° 3 | 9°51 | n.a. | T 9 |
| W10 | 11 0 1 | 16°59'11 | 6♎24 | 22°15 | 27°23 | 4° 3 | 0°11 | 25°44 | 24°22 | 10°57 | 13°41 | 20° 9 | 19° 0 | 9°57 | n.a. | W10 |
| T 11 | 11 3 58 | 17°57'57 | 20°32 | 23°42 | 28°32 | 4°46 | 0° 8 | 25°42 | 24°26 | 10°59 | 13°42 | 20° 0 | 18°57 | 10° 4 | n.a. | T 11 |
| F 12 | 11 7 54 | 18°56'42 | 4♏48 | 25°10 | 29°41 | 5°30 | 0° 5 | 25°40 | 24°29 | 11° 0 | 13°42 | 19°52 | 18°53 | 10°11 | n.a. | F 12 |
| S 13 | 11 11 51 | 19°55'25 | 19° 5 | 26°40 | 0♉49 | 6°13 | 0° 2 | 25°38 | 24°33 | 11° 2 | 13°43 | 19°46 | 18°50 | 10°17 | n.a. | S 13 |
| S 14 | 11 15 47 | 20°54'06 | 3♐22 | 28°12 | 1°58 | 6°56 | 29♋59 | 25°37 | 24°36 | 11° 3 | 13°44 | 19°42 | 18°47 | 10°24 | n.a. | S 14 |
| M15 | 11 19 44 | 21°52'46 | 17°33 | 29°46 | 3° 6 | 7°40 | 29°56 | 25°35 | 24°40 | 11° 5 | 13°45 | 19°D41 | 18°44 | 10°31 | n.a. | M15 |
| T 16 | 11 23 41 | 22°51'24 | 1♑39 | 1♓21 | 4°14 | 8°23 | 29°54 | 25°33 | 24°43 | 11° 6 | 13°46 | 19°41 | 18°41 | 10°37 | n.a. | T 16 |
| W17 | 11 27 37 | 23°50'00 | 15°37 | 2°57 | 5°23 | 9° 6 | 29°51 | 25°32 | 24°46 | 11° 8 | 13°47 | 19°R42 | 18°37 | 10°44 | n.a. | W17 |
| T 18 | 11 31 34 | 24°48'34 | 29°28 | 4°36 | 6°30 | 9°49 | 29°49 | 25°31 | 24°50 | 11°10 | 13°48 | 19°41 | 18°34 | 10°51 | n.a. | T 18 |
| F 19 | 11 35 30 | 25°47'07 | 13♒11 | 6°16 | 7°38 | 10°32 | 29°47 | 25°29 | 24°53 | 11°11 | 13°49 | 19°39 | 18°31 | 10°57 | n.a. | F 19 |
| S 20 | 11 39 27 | 26°45'37 | 26°45 | 7°57 | 8°46 | 11°15 | 29°45 | 25°28 | 24°57 | 11°13 | 13°50 | 19°34 | 18°28 | 11° 4 | n.a. | S 20 |
| S 21 | 11 43 23 | 27°44'06 | 10♓ 8 | 9°40 | 9°53 | 11°59 | 29°44 | 25°27 | 25° 0 | 11°15 | 13°51 | 19°27 | 18°25 | 11°11 | n.a. | S 21 |
| M22 | 11 47 20 | 28°42'33 | 23°20 | 11°25 | 11° 1 | 12°42 | 29°42 | 25°26 | 25° 4 | 11°17 | 13°52 | 19°17 | 18°22 | 11°17 | n.a. | M22 |
| T 23 | 11 51 16 | 29°40'58 | 6♈18 | 13°12 | 12° 8 | 13°24 | 29°41 | 25°25 | 25° 7 | 11°18 | 13°53 | 19° 5 | 18°18 | 11°24 | n.a. | T 23 |
| W24 | 11 55 13 | 0♈39'21 | 19° 1 | 15° 0 | 13°15 | 14° 7 | 29°40 | 25°25 | 25°10 | 11°20 | 13°54 | 18°53 | 18°15 | 11°31 | n.a. | W24 |
| T 25 | 11 59 9 | 1°37'42 | 1♉30 | 16°50 | 14°21 | 14°50 | 29°39 | 25°24 | 25°14 | 11°22 | 13°55 | 18°41 | 18°12 | 11°37 | n.a. | T 25 |
| F 26 | 12 3 6 | 2°36'01 | 13°45 | 18°41 | 15°28 | 15°33 | 29°39 | 25°24 | 25°17 | 11°24 | 13°56 | 18°30 | 18° 9 | 11°44 | n.a. | F 26 |
| S 27 | 12 7 3 | 3°34'18 | 25°48 | 20°34 | 16°34 | 16°16 | 29°38 | 25°23 | 25°21 | 11°26 | 13°57 | 18°22 | 18° 6 | 11°51 | n.a. | S 27 |
| S 28 | 12 10 59 | 4°32'33 | 7♊42 | 22°29 | 17°40 | 16°58 | 29°38 | 25°23 | 25°24 | 11°27 | 13°58 | 18°17 | 18° 3 | 11°57 | n.a. | S 28 |
| M29 | 12 14 56 | 5°30'45 | 19°31 | 24°26 | 18°46 | 17°41 | 29°D38 | 25°23 | 25°27 | 11°29 | 13°59 | 18°14 | 17°59 | 12° 4 | n.a. | M29 |
| T 30 | 12 18 52 | 6°28'56 | 1♋21 | 26°24 | 19°52 | 18°24 | 29°38 | 25°D23 | 25°31 | 11°31 | 14° 0 | 18°13 | 17°56 | 12°11 | n.a. | T 30 |
| W31 | 12 22 49 | 7♈27'05 | 13♋15 | 28♓24 | 20♉58 | 19♈ 6 | 29♋38 | 25♋23 | 25♓34 | 11♉33 | 14♉ 2 | 18♋13 | 17♋53 | 12♊17 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| M 1 | 8s36 | 19n12 | 3s15 | 19s 8 | 1s26 | 7n23 | 0n43 | 1s26 | 0s27 | 21n25 | 1n15 | 22n19 | 1n10 | 3s 6 | 0s41 | 13n32 | 1s46 | 5n56 | 10s38 | 22n 6 | 22n16 | 18n44 | | | n.a. |
| T 2 | 8 14 | 21 11 | 2 22 | 18 56 | 1 33 | 7 54 | 0 47 | 1 7 | 0 26 | 21 26 | 1 15 | 22 19 | 1 10 | 3 4 | 0 41 | 13 32 | 1 46 | 5 56 | 10 38 | 22 6 | 22 17 | 18 45 | | | n.a. |
| W 3 | 7 52 | 22 14 | 1 22 | 18 42 | 1 40 | 8 24 | 0 51 | 0 49 | 0 26 | 21 27 | 1 15 | 22 20 | 1 10 | 3 3 | 0 41 | 13 33 | 1 46 | 5 56 | 10 38 | 22 6 | 22 17 | 18 47 | | | n.a. |
| T 4 | 7 29 | 22 16 | 0 17 | 18 26 | 1 46 | 8 54 | 0 54 | 0 31 | 0 25 | 21 28 | 1 15 | 22 20 | 1 10 | 3 1 | 0 41 | 13 33 | 1 46 | 5 57 | 10 38 | 22 6 | 22 18 | 18 49 | | | n.a. |
| F 5 | 7 6 | 21 13 | 0n49 | 18 9 | 1 52 | 9 24 | 0 58 | 0 13 | 0 24 | 21 28 | 1 14 | 22 21 | 1 10 | 3 0 | 0 41 | 13 34 | 1 46 | 5 57 | 10 37 | 22 6 | 22 18 | 18 50 | | | n.a. |
| S 6 | 6 44 | 19 4 | 1 55 | 17 51 | 1 58 | 9 54 | 1 2 | 0n 6 | 0 24 | 21 29 | 1 14 | 22 21 | 1 10 | 2 59 | 0 41 | 13 34 | 1 46 | 5 58 | 10 37 | 22 6 | 22 19 | 18 52 | | | n.a. |
| S 7 | 6 21 | 15 55 | 2 56 | 17 31 | 2 2 | 10 24 | 1 5 | 0 24 | 0 23 | 21 30 | 1 14 | 22 22 | 1 10 | 2 57 | 0 41 | 13 35 | 1 46 | 5 58 | 10 37 | 22 7 | 22 19 | 18 54 | | | n.a. |
| M 8 | 5 58 | 11 53 | 3 49 | 17 9 | 2 7 | 10 53 | 1 9 | 0 42 | 0 23 | 21 31 | 1 14 | 22 22 | 1 10 | 2 56 | 0 41 | 13 35 | 1 46 | 5 59 | 10 37 | 22 8 | 22 20 | 18 55 | | | n.a. |
| T 9 | 5 35 | 7 9 | 4 30 | 16 46 | 2 11 | 11 22 | 1 13 | 1 0 | 0 22 | 21 32 | 1 14 | 22 23 | 1 10 | 2 55 | 0 41 | 13 36 | 1 46 | 5 59 | 10 36 | 22 9 | 22 20 | 18 57 | | | n.a. |
| W10 | 5 12 | 1 57 | 4 56 | 16 22 | 2 14 | 11 51 | 1 17 | 1 18 | 0 21 | 21 32 | 1 14 | 22 23 | 1 10 | 2 53 | 0 41 | 13 36 | 1 46 | 6 0 | 10 36 | 22 10 | 22 21 | 18 59 | | | n.a. |
| T 11 | 4 48 | 3s24 | 5 5 | 15 56 | 2 17 | 12 19 | 1 20 | 1 36 | 0 21 | 21 33 | 1 14 | 22 23 | 1 10 | 2 52 | 0 41 | 13 37 | 1 46 | 6 0 | 10 36 | 22 12 | 22 21 | 19 0 | | | n.a. |
| F 12 | 4 25 | 8 38 | 4 55 | 15 28 | 2 20 | 12 47 | 1 24 | 1 54 | 0 20 | 21 34 | 1 14 | 22 24 | 1 10 | 2 51 | 0 41 | 13 37 | 1 46 | 6 1 | 10 36 | 22 13 | 22 21 | 19 2 | | | n.a. |
| S 13 | 4 2 | 13 25 | 4 26 | 14 59 | 2 22 | 13 15 | 1 28 | 2 12 | 0 19 | 21 34 | 1 14 | 22 24 | 1 10 | 2 49 | 0 41 | 13 38 | 1 46 | 6 1 | 10 36 | 22 14 | 22 22 | 19 4 | | | n.a. |
| S 14 | 3 39 | 17 26 | 3 41 | 14 28 | 2 23 | 13 43 | 1 31 | 2 30 | 0 19 | 21 35 | 1 14 | 22 24 | 1 10 | 2 48 | 0 41 | 13 38 | 1 46 | 6 1 | 10 35 | 22 14 | 22 22 | 19 5 | | | n.a. |
| M15 | 3 15 | 20 25 | 2 43 | 13 56 | 2 24 | 14 10 | 1 35 | 2 48 | 0 18 | 21 35 | 1 14 | 22 25 | 1 10 | 2 46 | 0 41 | 13 39 | 1 45 | 6 2 | 10 35 | 22 15 | 22 23 | 19 7 | | | n.a. |
| T 16 | 2 52 | 22 7 | 1 35 | 13 22 | 2 25 | 14 37 | 1 38 | 3 6 | 0 17 | 21 36 | 1 13 | 22 25 | 1 10 | 2 45 | 0 41 | 13 39 | 1 45 | 6 2 | 10 35 | 22 15 | 22 23 | 19 9 | | | n.a. |
| W17 | 2 29 | 22 25 | 0 22 | 12 47 | 2 25 | 15 4 | 1 42 | 3 23 | 0 17 | 21 36 | 1 13 | 22 25 | 1 10 | 2 44 | 0 41 | 13 40 | 1 45 | 6 3 | 10 35 | 22 14 | 22 24 | 19 10 | | | n.a. |
| T 18 | 2 5 | 21 20 | 0s52 | 12 10 | 2 24 | 15 30 | 1 46 | 3 41 | 0 16 | 21 36 | 1 13 | 22 25 | 1 10 | 2 42 | 0 41 | 13 41 | 1 45 | 6 3 | 10 34 | 22 15 | 22 24 | 19 12 | | | n.a. |
| F 19 | 1 42 | 18 59 | 2 2 | 11 32 | 2 23 | 15 56 | 1 49 | 3 59 | 0 15 | 21 37 | 1 13 | 22 26 | 1 10 | 2 41 | 0 41 | 13 41 | 1 45 | 6 4 | 10 34 | 22 15 | 22 25 | 19 13 | | | n.a. |
| S 20 | 1 18 | 15 36 | 3 4 | 10 52 | 2 21 | 16 21 | 1 53 | 4 16 | 0 15 | 21 37 | 1 13 | 22 26 | 1 10 | 2 39 | 0 41 | 13 42 | 1 45 | 6 4 | 10 34 | 22 16 | 22 25 | 19 15 | | | n.a. |
| S 21 | 0 55 | 11 28 | 3 54 | 10 10 | 2 19 | 16 46 | 1 56 | 4 34 | 0 14 | 21 37 | 1 13 | 22 26 | 1 10 | 2 38 | 0 41 | 13 42 | 1 45 | 6 5 | 10 34 | 22 17 | 22 25 | 19 17 | | | n.a. |
| M22 | 0 31 | 6 50 | 4 32 | 9 28 | 2 17 | 17 11 | 2 0 | 4 52 | 0 14 | 21 37 | 1 13 | 22 26 | 1 10 | 2 37 | 0 41 | 13 43 | 1 45 | 6 5 | 10 34 | 22 18 | 22 26 | 19 18 | | | n.a. |
| T 23 | 0 8 | 1 58 | 4 54 | 8 43 | 2 13 | 17 35 | 2 3 | 5 9 | 0 13 | 21 37 | 1 13 | 22 26 | 1 10 | 2 35 | 0 41 | 13 43 | 1 45 | 6 6 | 10 33 | 22 20 | 22 26 | 19 20 | | | n.a. |
| W24 | 0n16 | 2n53 | 5 2 | 7 58 | 2 10 | 17 59 | 2 6 | 5 26 | 0 12 | 21 38 | 1 13 | 22 26 | 1 10 | 2 34 | 0 41 | 13 44 | 1 45 | 6 6 | 10 33 | 22 22 | 22 27 | 19 21 | | | n.a. |
| T 25 | 0 39 | 7 32 | 4 54 | 7 11 | 2 5 | 18 23 | 2 10 | 5 44 | 0 12 | 21 38 | 1 12 | 22 27 | 1 10 | 2 33 | 0 41 | 13 45 | 1 45 | 6 7 | 10 33 | 22 23 | 22 27 | 19 23 | | | n.a. |
| F 26 | 1 3 | 11 48 | 4 33 | 6 22 | 2 1 | 18 46 | 2 13 | 6 1 | 0 11 | 21 38 | 1 12 | 22 27 | 1 10 | 2 31 | 0 41 | 13 45 | 1 45 | 6 7 | 10 33 | 22 25 | 22 28 | 19 25 | | | n.a. |
| S 27 | 1 26 | 15 32 | 4 0 | 5 32 | 1 55 | 19 9 | 2 16 | 6 18 | 0 10 | 21 38 | 1 12 | 22 27 | 1 10 | 2 30 | 0 41 | 13 46 | 1 45 | 6 8 | 10 33 | 22 26 | 22 28 | 19 26 | | | n.a. |
| S 28 | 1 49 | 18 35 | 3 17 | 4 41 | 1 49 | 19 31 | 2 19 | 6 35 | 0 10 | 21 38 | 1 12 | 22 27 | 1 10 | 2 29 | 0 41 | 13 46 | 1 45 | 6 8 | 10 33 | 22 26 | 22 28 | 19 28 | | | n.a. |
| M29 | 2 13 | 20 52 | 2 26 | 3 49 | 1 43 | 19 53 | 2 22 | 6 52 | 0 9 | 21 37 | 1 12 | 22 27 | 1 10 | 2 27 | 0 41 | 13 47 | 1 45 | 6 9 | 10 32 | 22 27 | 22 29 | 19 29 | | | n.a. |
| T 30 | 2 36 | 22 14 | 1 28 | 2 55 | 1 36 | 20 14 | 2 25 | 7 9 | 0 8 | 21 37 | 1 12 | 22 27 | 1 10 | 2 26 | 0 41 | 13 48 | 1 45 | 6 9 | 10 32 | 22 27 | 22 29 | 19 31 | | | n.a. |
| W31 | 2n59 | 22n36 | 0s26 | 2s 0 | 1s29 | 20n34 | 2n28 | 7n26 | 0s 8 | 21n37 | 1n12 | 22n27 | 1n10 | 2s24 | 0s41 | 13n48 | 1s45 | 6n10 | 10s32 | 22n27 | 22n30 | 19n33 | | | n.a. |

Julian Day Number = 1690436.5, Delta T = 03h10m46s
Ecliptic obliquity = 23°42'17, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°14'10, Lahiri = - 5°07'09 Julian Calendar 1 March 85 BCE == Greg. Calendar 28 Feb. 085 BCE

The year -84 astronomical counting style corresponds to year 085 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 85 BCE
# geocentric

## APRIL 85 BCE (-84) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 26 45 | 8♈25'11 | 25♋21 | 0♈25 | 22♉ 3 | 19♈49 | 29♋38 | 25♋23 | 25♓38 | 11♉35 | 14♉ 3 | 18°R13 | 17♋50 | 12♊24 | n.a. | T 1 |
| F 2 | 12 30 42 | 9°23'16 | 7♌43 | 2°28 | 23° 8 | 20°31 | 29°39 | 25°23 | 25°41 | 11°37 | 14° 4 | 18♋12 | 17°47 | 12°31 | n.a. | F 2 |
| S 3 | 12 34 38 | 10°21'18 | 20°26 | 4°32 | 24°13 | 21°13 | 29°40 | 25°23 | 25°44 | 11°39 | 14° 5 | 18° 8 | 17°43 | 12°37 | n.a. | S 3 |
| S 4 | 12 38 35 | 11°19'19 | 3♍33 | 6°37 | 25°17 | 21°56 | 29°41 | 25°24 | 25°48 | 11°41 | 14° 6 | 18° 3 | 17°40 | 12°44 | n.a. | S 4 |
| M 5 | 12 42 32 | 12°17'17 | 17° 5 | 8°44 | 26°22 | 22°38 | 29°42 | 25°24 | 25°51 | 11°43 | 14° 7 | 17°54 | 17°37 | 12°51 | n.a. | M 5 |
| T 6 | 12 46 28 | 13°15'14 | 1♎ 2 | 10°52 | 27°26 | 23°20 | 29°43 | 25°25 | 25°54 | 11°45 | 14° 9 | 17°44 | 17°34 | 12°57 | n.a. | T 6 |
| W 7 | 12 50 25 | 14°13'09 | 15°21 | 13° 1 | 28°29 | 24° 2 | 29°45 | 25°26 | 25°58 | 11°47 | 14°10 | 17°32 | 17°31 | 13° 4 | n.a. | W 7 |
| T 8 | 12 54 21 | 15°11'02 | 29°55 | 15°10 | 29°33 | 24°45 | 29°47 | 25°27 | 26° 1 | 11°49 | 14°11 | 17°21 | 17°28 | 13°11 | n.a. | T 8 |
| F 9 | 12 58 18 | 16° 8'54 | 14♏36 | 17°20 | 0♊36 | 25°27 | 29°49 | 25°28 | 26° 4 | 11°51 | 14°12 | 17°11 | 17°24 | 13°17 | n.a. | F 9 |
| S 10 | 13 2 14 | 17° 6'44 | 29°19 | 19°31 | 1°39 | 26° 9 | 29°51 | 25°29 | 26° 7 | 11°53 | 14°14 | 17° 3 | 17°21 | 13°24 | n.a. | S 10 |
| S 11 | 13 6 11 | 18° 4'33 | 13♐54 | 21°41 | 2°42 | 26°51 | 29°53 | 25°30 | 26°11 | 11°55 | 14°15 | 16°58 | 17°18 | 13°31 | n.a. | S 11 |
| M12 | 13 10 7 | 19° 2'21 | 28°18 | 23°51 | 3°44 | 27°33 | 29°55 | 25°31 | 26°14 | 11°57 | 14°16 | 16°56 | 17°15 | 13°37 | n.a. | M12 |
| T 13 | 13 14 4 | 20° 0'07 | 12♑29 | 26° 0 | 4°46 | 28°15 | 29°58 | 25°33 | 26°17 | 11°59 | 14°17 | 16°55 | 17°12 | 13°44 | n.a. | T 13 |
| W14 | 13 18 1 | 20°57'52 | 26°24 | 28° 9 | 5°48 | 28°57 | 0♌ 1 | 25°34 | 26°20 | 12° 1 | 14°19 | 16°55 | 17° 9 | 13°51 | n.a. | W14 |
| T 15 | 13 21 57 | 21°55'36 | 10♒ 4 | 0♉17 | 6°50 | 29°38 | 0° 4 | 25°36 | 26°23 | 12° 4 | 14°20 | 16°55 | 17° 5 | 13°57 | n.a. | T 15 |
| F 16 | 13 25 54 | 22°53'19 | 23°31 | 2°23 | 7°51 | 0♉20 | 0° 7 | 25°37 | 26°27 | 12° 6 | 14°21 | 16°52 | 17° 2 | 14° 4 | n.a. | F 16 |
| S 17 | 13 29 50 | 23°51'01 | 6♓45 | 4°27 | 8°52 | 1° 2 | 0°10 | 25°39 | 26°30 | 12° 8 | 14°22 | 16°47 | 16°59 | 14°11 | n.a. | S 17 |
| S 18 | 13 33 47 | 24°48'41 | 19°47 | 6°30 | 9°52 | 1°44 | 0°13 | 25°41 | 26°33 | 12°10 | 14°24 | 16°39 | 16°56 | 14°17 | n.a. | S 18 |
| M19 | 13 37 43 | 25°46'20 | 2♈37 | 8°30 | 10°52 | 2°25 | 0°17 | 25°43 | 26°36 | 12°12 | 14°25 | 16°28 | 16°53 | 14°24 | n.a. | M19 |
| T 20 | 13 41 40 | 26°43'58 | 15°16 | 10°29 | 11°52 | 3° 7 | 0°21 | 25°45 | 26°39 | 12°14 | 14°26 | 16°16 | 16°49 | 14°31 | n.a. | T 20 |
| W21 | 13 45 36 | 27°41'35 | 27°44 | 12°24 | 12°51 | 3°48 | 0°25 | 25°47 | 26°42 | 12°17 | 14°28 | 16° 3 | 16°46 | 14°37 | n.a. | W21 |
| T 22 | 13 49 33 | 28°39'10 | 10♉ 0 | 14°18 | 13°50 | 4°30 | 0°29 | 25°50 | 26°45 | 12°19 | 14°29 | 15°50 | 16°43 | 14°44 | n.a. | T 22 |
| F 23 | 13 53 29 | 29°36'44 | 22° 6 | 16° 8 | 14°49 | 5°11 | 0°33 | 25°52 | 26°48 | 12°21 | 14°30 | 15°39 | 16°40 | 14°51 | n.a. | F 23 |
| S 24 | 13 57 26 | 0♉34'16 | 4♊ 4 | 17°56 | 15°47 | 5°53 | 0°38 | 25°55 | 26°51 | 12°23 | 14°32 | 15°30 | 16°37 | 14°57 | n.a. | S 24 |
| S 25 | 14 1 23 | 1°31'48 | 15°54 | 19°41 | 16°45 | 6°34 | 0°42 | 25°57 | 26°54 | 12°25 | 14°33 | 15°24 | 16°34 | 15° 4 | n.a. | S 25 |
| M26 | 14 5 19 | 2°29'18 | 27°42 | 21°23 | 17°42 | 7°15 | 0°47 | 26° 0 | 26°57 | 12°28 | 14°34 | 15°20 | 16°30 | 15°11 | n.a. | M26 |
| T 27 | 14 9 16 | 3°26'46 | 9♋30 | 23° 2 | 18°39 | 7°57 | 0°52 | 26° 3 | 27° 0 | 12°30 | 14°36 | 15°19 | 16°27 | 15°17 | n.a. | T 27 |
| W28 | 14 13 12 | 4°24'13 | 21°24 | 24°38 | 19°35 | 8°38 | 0°57 | 26° 6 | 27° 3 | 12°32 | 14°37 | 15°D19 | 16°24 | 15°24 | n.a. | W28 |
| T 29 | 14 17 9 | 5°21'39 | 3♌28 | 26°11 | 20°31 | 9°19 | 1° 2 | 26° 9 | 27° 6 | 12°34 | 14°39 | 15°R19 | 16°21 | 15°31 | n.a. | T 29 |
| F 30 | 14 21 5 | 6♉19'04 | 15♌49 | 27♉41 | 21♊27 | 10♉ 0 | 1♌ 7 | 26♋12 | 27♓ 9 | 12♉36 | 14♉40 | 15♋19 | 16♋18 | 15♊37 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| T 1 | 3n22 | 21n55 | 0n38 | 1s 4 | 1s21 | 20n55 | 2n31 | 7n43 | 0s 7 | 21n37 | 1n11 | 22n27 | 1n10 | 2s23 | 0s41 | 13n49 | 1s45 | 6n10 | 10s32 | 22n27 | 22n30 | 19n34 | | n.a. | T 1 |
| F 2 | 3 46 | 20 10 | 1 41 | 0 7 | 1 13 | 21 15 | 2 34 | 8 0 | 0 7 | 21 37 | 1 11 | 22 26 | 1 10 | 2 22 | 0 41 | 13 50 | 1 45 | 6 11 | 10 32 | 22 27 | 22 31 | 19 36 | | n.a. | F 2 |
| S 3 | 4 9 | 17 23 | 2 42 | 0n51 | 1 4 | 21 34 | 2 37 | 8 17 | 0 6 | 21 36 | 1 11 | 22 26 | 1 10 | 2 20 | 0 41 | 13 50 | 1 45 | 6 11 | 10 31 | 22 28 | 22 31 | 19 37 | | n.a. | S 3 |
| S 4 | 4 32 | 13 39 | 3 35 | 1 49 | 0 55 | 21 52 | 2 39 | 8 33 | 0 5 | 21 36 | 1 11 | 22 26 | 1 10 | 2 19 | 0 41 | 13 51 | 1 45 | 6 12 | 10 31 | 22 28 | 22 31 | 19 39 | | n.a. | S 4 |
| M 5 | 4 55 | 9 7 | 4 19 | 2 49 | 0 45 | 22 11 | 2 42 | 8 50 | 0 5 | 21 36 | 1 11 | 22 26 | 1 10 | 2 18 | 0 41 | 13 52 | 1 45 | 6 12 | 10 31 | 22 30 | 22 32 | 19 40 | | n.a. | M 5 |
| T 6 | 5 17 | 3 59 | 4 48 | 3 48 | 0 35 | 22 28 | 2 45 | 9 6 | 0 4 | 21 35 | 1 11 | 22 26 | 1 10 | 2 16 | 0 41 | 13 52 | 1 45 | 6 13 | 10 31 | 22 31 | 22 32 | 19 42 | | n.a. | T 6 |
| W 7 | 5 40 | 1s30 | 5 0 | 4 49 | 0 25 | 22 45 | 2 47 | 9 22 | 0 3 | 21 35 | 1 11 | 22 26 | 1 10 | 2 15 | 0 41 | 13 53 | 1 45 | 6 13 | 10 31 | 22 32 | 22 33 | 19 44 | | n.a. | W 7 |
| T 8 | 6 3 | 6 59 | 4 53 | 5 49 | 0 15 | 23 2 | 2 49 | 9 39 | 0 3 | 21 34 | 1 11 | 22 26 | 1 10 | 2 14 | 0 41 | 13 54 | 1 45 | 6 14 | 10 31 | 22 34 | 22 33 | 19 45 | | n.a. | T 8 |
| F 9 | 6 25 | 12 9 | 4 27 | 6 49 | 0 4 | 23 18 | 2 52 | 9 55 | 0 2 | 21 34 | 1 10 | 22 25 | 1 10 | 2 12 | 0 41 | 13 54 | 1 44 | 6 14 | 10 31 | 22 35 | 22 33 | 19 47 | | n.a. | F 9 |
| S 10 | 6 48 | 16 35 | 3 43 | 7 49 | 0n 6 | 23 33 | 2 54 | 10 11 | 0 2 | 21 33 | 1 10 | 22 25 | 1 10 | 2 11 | 0 41 | 13 55 | 1 44 | 6 15 | 10 30 | 22 36 | 22 34 | 19 48 | | n.a. | S 10 |
| S 11 | 7 10 | 19 59 | 2 45 | 8 48 | 0 17 | 23 48 | 2 56 | 10 27 | 0 1 | 21 33 | 1 10 | 22 25 | 1 10 | 2 10 | 0 41 | 13 56 | 1 44 | 6 15 | 10 30 | 22 37 | 22 34 | 19 50 | | n.a. | S 11 |
| M12 | 7 32 | 22 5 | 1 37 | 9 47 | 0 28 | 24 3 | 2 58 | 10 43 | 0 0 | 21 32 | 1 10 | 22 25 | 1 9 | 2 9 | 0 41 | 13 56 | 1 44 | 6 16 | 10 30 | 22 37 | 22 35 | 19 51 | | n.a. | M12 |
| T 13 | 7 54 | 22 43 | 0 24 | 10 45 | 0 38 | 24 16 | 3 0 | 10 58 | 0n 0 | 21 31 | 1 10 | 22 24 | 1 9 | 2 7 | 0 41 | 13 57 | 1 44 | 6 16 | 10 30 | 22 37 | 22 35 | 19 53 | | n.a. | T 13 |
| W14 | 8 16 | 21 55 | 0s50 | 11 41 | 0 48 | 24 30 | 3 2 | 11 14 | 0 1 | 21 30 | 1 10 | 22 24 | 1 9 | 2 6 | 0 41 | 13 58 | 1 44 | 6 16 | 10 30 | 22 37 | 22 36 | 19 54 | | n.a. | W14 |
| T 15 | 8 38 | 19 50 | 1 59 | 12 36 | 0 58 | 24 42 | 3 3 | 11 29 | 0 2 | 21 30 | 1 10 | 22 24 | 1 9 | 2 5 | 0 41 | 13 58 | 1 44 | 6 17 | 10 30 | 22 37 | 22 36 | 19 56 | | n.a. | T 15 |
| F 16 | 9 0 | 16 40 | 3 1 | 13 30 | 1 8 | 24 54 | 3 5 | 11 45 | 0 2 | 21 29 | 1 10 | 22 23 | 1 9 | 2 3 | 0 41 | 13 59 | 1 44 | 6 17 | 10 30 | 22 38 | 22 36 | 19 57 | | n.a. | F 16 |
| S 17 | 9 21 | 12 42 | 3 51 | 14 22 | 1 17 | 25 6 | 3 7 | 12 0 | 0 3 | 21 28 | 1 9 | 22 23 | 1 9 | 2 2 | 0 41 | 14 0 | 1 44 | 6 18 | 10 30 | 22 38 | 22 37 | 19 59 | | n.a. | S 17 |
| S 18 | 9 43 | 8 12 | 4 29 | 15 11 | 1 26 | 25 16 | 3 8 | 12 15 | 0 3 | 21 27 | 1 9 | 22 23 | 1 9 | 2 1 | 0 41 | 14 0 | 1 44 | 6 18 | 10 29 | 22 39 | 22 37 | 20 0 | | n.a. | S 18 |
| M19 | 10 4 | 3 24 | 4 52 | 15 59 | 1 35 | 25 27 | 3 9 | 12 31 | 0 4 | 21 26 | 1 9 | 22 22 | 1 9 | 2 0 | 0 41 | 14 1 | 1 44 | 6 19 | 10 29 | 22 41 | 22 38 | 20 2 | | n.a. | M19 |
| T 20 | 10 25 | 1n28 | 5 0 | 16 45 | 1 42 | 25 36 | 3 10 | 12 46 | 0 5 | 21 25 | 1 9 | 22 22 | 1 9 | 1 59 | 0 41 | 14 2 | 1 44 | 6 19 | 10 29 | 22 42 | 22 38 | 20 3 | | n.a. | T 20 |
| W21 | 10 46 | 6 12 | 4 54 | 17 28 | 1 49 | 25 45 | 3 11 | 13 0 | 0 5 | 21 24 | 1 9 | 22 21 | 1 9 | 1 57 | 0 41 | 14 2 | 1 44 | 6 20 | 10 29 | 22 44 | 22 38 | 20 5 | | n.a. | W21 |
| T 22 | 11 7 | 10 38 | 4 35 | 18 9 | 1 56 | 25 53 | 3 12 | 13 15 | 0 6 | 21 23 | 1 9 | 22 21 | 1 9 | 1 56 | 0 41 | 14 3 | 1 44 | 6 20 | 10 29 | 22 45 | 22 39 | 20 6 | | n.a. | T 22 |
| F 23 | 11 27 | 14 35 | 4 3 | 18 47 | 2 2 | 26 1 | 3 13 | 13 30 | 0 6 | 21 22 | 1 9 | 22 20 | 1 9 | 1 55 | 0 41 | 14 4 | 1 44 | 6 21 | 10 29 | 22 47 | 22 39 | 20 8 | | n.a. | F 23 |
| S 24 | 11 48 | 17 55 | 3 20 | 19 23 | 2 7 | 26 8 | 3 13 | 13 44 | 0 7 | 21 21 | 1 8 | 22 20 | 1 9 | 1 54 | 0 41 | 14 4 | 1 44 | 6 21 | 10 29 | 22 48 | 22 40 | 20 9 | | n.a. | S 24 |
| S 25 | 12 8 | 20 28 | 2 29 | 19 57 | 2 11 | 26 15 | 3 14 | 13 59 | 0 8 | 21 20 | 1 8 | 22 19 | 1 9 | 1 53 | 0 41 | 14 5 | 1 44 | 6 22 | 10 29 | 22 48 | 22 40 | 20 11 | | n.a. | S 25 |
| M26 | 12 28 | 22 9 | 1 32 | 20 28 | 2 15 | 26 21 | 3 14 | 14 13 | 0 8 | 21 19 | 1 8 | 22 19 | 1 9 | 1 51 | 0 41 | 14 6 | 1 44 | 6 22 | 10 29 | 22 49 | 22 40 | 20 12 | | n.a. | M26 |
| T 27 | 12 48 | 22 51 | 0 31 | 20 57 | 2 18 | 26 26 | 3 14 | 14 27 | 0 9 | 21 18 | 1 8 | 22 18 | 1 9 | 1 50 | 0 41 | 14 6 | 1 44 | 6 23 | 10 29 | 22 49 | 22 41 | 20 14 | | n.a. | T 27 |
| W28 | 13 8 | 22 31 | 0n32 | 21 23 | 2 20 | 26 31 | 3 14 | 14 41 | 0 9 | 21 16 | 1 8 | 22 18 | 1 9 | 1 49 | 0 41 | 14 7 | 1 44 | 6 23 | 10 28 | 22 49 | 22 41 | 20 15 | | n.a. | W28 |
| T 29 | 13 27 | 21 8 | 1 35 | 21 47 | 2 21 | 26 35 | 3 14 | 14 55 | 0 10 | 21 15 | 1 8 | 22 17 | 1 9 | 1 48 | 0 41 | 14 8 | 1 44 | 6 24 | 10 28 | 22 49 | 22 41 | 20 17 | | n.a. | T 29 |
| F 30 | 13n46 | 18n44 | 2n35 | 22n 9 | 2n21 | 26n39 | 3n14 | 15n 9 | 0n11 | 21n14 | 1n 8 | 22n16 | 1n 9 | 1s47 | 0s41 | 14n 9 | 1s44 | 6n24 | 10s28 | 22n49 | 22n42 | 20n18 | | n.a. | F 30 |

Julian Day Number = 1690467.5, Delta T = 03h10m45s
Ecliptic obliquity = 23°42'17, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°14'05, Lahiri = - 5°07'05 Julian Calendar 1 Apr. 85 BCE == Greg. Calendar 30 March 085 BCE

The year -84 astronomical counting style corresponds to year 085 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 85 BCE
# geocentric

## MAY 85 BCE (-84) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 14 25 2 | 7♉16'27 | 28♌31 | 29♉ 7 | 22♊21 | 10♉41 | 1♌13 | 26♋15 | 27♓12 | 12♉39 | 14♉41 | 15°R17 | 16♋14 | 15♊44 | n.a. | S 1 |
| S 2 | 14 28 58 | 8°13'48 | 11♍38 | 0♊31 | 23°16 | 11°22 | 1°19 | 26°18 | 27°14 | 12°41 | 14°43 | 15♋13 | 16°11 | 15°51 | n.a. | S 2 |
| M 3 | 14 32 55 | 9°11'09 | 25°13 | 1°51 | 24° 9 | 12° 3 | 1°24 | 26°21 | 27°17 | 12°43 | 14°44 | 15° 6 | 16° 8 | 15°57 | n.a. | M 3 |
| T 4 | 14 36 52 | 10° 8'28 | 9♎16 | 3° 8 | 25° 2 | 12°44 | 1°30 | 26°25 | 27°20 | 12°45 | 14°45 | 14°58 | 16° 5 | 16° 4 | n.a. | T 4 |
| W 5 | 14 40 48 | 11° 5'46 | 23°46 | 4°22 | 25°55 | 13°25 | 1°36 | 26°28 | 27°22 | 12°48 | 14°47 | 14°49 | 16° 2 | 16°11 | n.a. | W 5 |
| T 6 | 14 44 45 | 12° 3'03 | 8♏35 | 5°32 | 26°47 | 14° 6 | 1°43 | 26°32 | 27°25 | 12°50 | 14°48 | 14°39 | 15°59 | 16°17 | n.a. | T 6 |
| F 7 | 14 48 41 | 13° 0'20 | 23°36 | 6°39 | 27°38 | 14°47 | 1°49 | 26°36 | 27°28 | 12°52 | 14°50 | 14°31 | 15°55 | 16°24 | n.a. | F 7 |
| S 8 | 14 52 38 | 13°57'35 | 8♐39 | 7°43 | 28°28 | 15°28 | 1°56 | 26°39 | 27°30 | 12°54 | 14°51 | 14°25 | 15°52 | 16°31 | n.a. | S 8 |
| S 9 | 14 56 34 | 14°54'50 | 23°36 | 8°43 | 29°18 | 16° 9 | 2° 2 | 26°43 | 27°33 | 12°57 | 14°52 | 14°21 | 15°49 | 16°37 | n.a. | S 9 |
| M10 | 15 0 31 | 15°52'05 | 8♑18 | 9°39 | 0♋ 7 | 16°49 | 2° 9 | 26°47 | 27°36 | 12°59 | 14°54 | 14°D19 | 15°46 | 16°44 | n.a. | M10 |
| T 11 | 15 4 28 | 16°49'19 | 22°42 | 10°32 | 0°56 | 17°30 | 2°16 | 26°51 | 27°38 | 13° 1 | 14°55 | 14°19 | 15°43 | 16°51 | n.a. | T 11 |
| W12 | 15 8 24 | 17°46'32 | 6♒44 | 11°21 | 1°43 | 18°11 | 2°23 | 26°55 | 27°41 | 13° 3 | 14°56 | 14°20 | 15°40 | 16°57 | n.a. | W12 |
| T 13 | 15 12 21 | 18°43'45 | 20°25 | 12° 6 | 2°30 | 18°51 | 2°30 | 27° 0 | 27°43 | 13° 6 | 14°58 | 14°R20 | 15°36 | 17° 4 | n.a. | T 13 |
| F 14 | 15 16 17 | 19°40'58 | 3♓46 | 12°48 | 3°16 | 19°32 | 2°37 | 27° 4 | 27°45 | 13° 8 | 14°59 | 14°19 | 15°33 | 17°11 | n.a. | F 14 |
| S 15 | 15 20 14 | 20°38'11 | 16°50 | 13°25 | 4° 1 | 20°12 | 2°45 | 27° 8 | 27°48 | 13°10 | 15° 1 | 14°16 | 15°30 | 17°17 | n.a. | S 15 |
| S 16 | 15 24 10 | 21°35'22 | 29°38 | 13°58 | 4°45 | 20°53 | 2°52 | 27°13 | 27°50 | 13°12 | 15° 2 | 14°11 | 15°27 | 17°24 | n.a. | S 16 |
| M17 | 15 28 7 | 22°32'34 | 12♈13 | 14°26 | 5°29 | 21°33 | 3° 0 | 27°17 | 27°52 | 13°14 | 15° 3 | 14° 4 | 15°24 | 17°31 | n.a. | M17 |
| T 18 | 15 32 3 | 23°29'45 | 24°36 | 14°51 | 6°11 | 22°14 | 3° 8 | 27°22 | 27°55 | 13°17 | 15° 5 | 13°56 | 15°20 | 17°37 | n.a. | T 18 |
| W19 | 15 36 0 | 24°26'56 | 6♉49 | 15°11 | 6°52 | 22°54 | 3°16 | 27°26 | 27°57 | 13°19 | 15° 6 | 13°46 | 15°17 | 17°44 | n.a. | W19 |
| T 20 | 15 39 57 | 25°24'07 | 18°53 | 15°26 | 7°32 | 23°34 | 3°24 | 27°31 | 27°59 | 13°21 | 15° 7 | 13°38 | 15°14 | 17°51 | n.a. | T 20 |
| F 21 | 15 43 53 | 26°21'17 | 0♊50 | 15°37 | 8°12 | 24°15 | 3°32 | 27°36 | 28° 1 | 13°23 | 15° 9 | 13°30 | 15°11 | 17°57 | n.a. | F 21 |
| S 22 | 15 47 50 | 27°18'27 | 12°42 | 15°44 | 8°50 | 24°55 | 3°40 | 27°41 | 28° 3 | 13°25 | 15°10 | 13°24 | 15° 8 | 18° 4 | n.a. | S 22 |
| S 23 | 15 51 46 | 28°15'37 | 24°30 | 15°R46 | 9°27 | 25°35 | 3°49 | 27°46 | 28° 6 | 13°28 | 15°12 | 13°20 | 15° 5 | 18°11 | n.a. | S 23 |
| M24 | 15 55 43 | 29°12'46 | 6♋17 | 15°43 | 10° 2 | 26°15 | 3°57 | 27°51 | 28° 8 | 13°30 | 15°13 | 13°18 | 15° 1 | 18°17 | n.a. | M24 |
| T 25 | 15 59 39 | 0♊ 9'54 | 18° 6 | 15°36 | 10°37 | 26°55 | 4° 6 | 27°56 | 28°10 | 13°32 | 15°14 | 13°D18 | 14°58 | 18°24 | n.a. | T 25 |
| W26 | 16 3 36 | 1° 7'02 | 0♌ 0 | 15°24 | 11°10 | 27°36 | 4°15 | 28° 1 | 28°12 | 13°34 | 15°16 | 13°19 | 14°55 | 18°31 | n.a. | W26 |
| T 27 | 16 7 32 | 2° 4'10 | 12° 6 | 15° 8 | 11°42 | 28°16 | 4°23 | 28° 6 | 28°14 | 13°36 | 15°17 | 13°20 | 14°52 | 18°37 | n.a. | T 27 |
| F 28 | 16 11 29 | 3° 1'17 | 24°26 | 14°49 | 12°12 | 28°56 | 4°32 | 28°12 | 28°15 | 13°39 | 15°18 | 13°22 | 14°49 | 18°44 | n.a. | F 28 |
| S 29 | 16 15 26 | 3°58'24 | 7♍ 5 | 14°25 | 12°41 | 29°36 | 4°41 | 28°17 | 28°17 | 13°41 | 15°20 | 13°R22 | 14°46 | 18°51 | n.a. | S 29 |
| S 30 | 16 19 22 | 4°55'31 | 20° 9 | 13°59 | 13° 8 | 0♊16 | 4°50 | 28°23 | 28°19 | 13°43 | 15°21 | 13°21 | 14°42 | 18°57 | n.a. | S 30 |
| M31 | 16 23 19 | 5♊52'36 | 3♎39 | 13♊29 | 13♋34 | 0♊55 | 5♌ 0 | 28♋28 | 28♓21 | 13♉45 | 15♉22 | 13♋18 | 14♋39 | 19♊ 4 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| S 1 | 14n 6 | 15n23 | 3n29 | 22n29 | 2n21 | 26n42 | 3n13 | 15n22 | 0n11 | 21n12 | 1n 8 | 22n16 | 1n 9 | 1s46 | 0s41 | 14n 9 | 1s44 | 6n25 | 10s28 | 22n49 | 22n42 | 20n20 | | n.a. | S 1 |
| S 2 | 14 24 | 11 11 | 4 14 | 22 46 | 2 20 | 26 44 | 3 13 | 15 36 | 0 12 | 21 11 | 1 7 | 22 15 | 1 9 | 1 45 | 0 41 | 14 10 | 1 44 | 6 25 | 10 28 | 22 50 | 22 43 | 20 21 | | n.a. | S 2 |
| M 3 | 14 43 | 6 17 | 4 46 | 23 1 | 2 18 | 26 46 | 3 12 | 15 49 | 0 12 | 21 10 | 1 7 | 22 14 | 1 9 | 1 43 | 0 41 | 14 11 | 1 44 | 6 25 | 10 28 | 22 50 | 22 43 | 20 23 | | n.a. | M 3 |
| T 4 | 15 1 | 0 55 | 5 2 | 23 14 | 2 15 | 26 48 | 3 11 | 16 2 | 0 13 | 21 8 | 1 7 | 22 14 | 1 9 | 1 42 | 0 42 | 14 11 | 1 44 | 6 26 | 10 28 | 22 51 | 22 43 | 20 24 | | n.a. | T 4 |
| W 5 | 15 19 | 4s41 | 5 0 | 23 25 | 2 12 | 26 48 | 3 10 | 16 15 | 0 14 | 21 7 | 1 7 | 22 13 | 1 9 | 1 41 | 0 42 | 14 12 | 1 44 | 6 26 | 10 28 | 22 52 | 22 44 | 20 26 | | n.a. | W 5 |
| T 6 | 15 37 | 10 8 | 4 38 | 23 33 | 2 8 | 26 48 | 3 9 | 16 28 | 0 14 | 21 5 | 1 7 | 22 12 | 1 9 | 1 40 | 0 42 | 14 13 | 1 44 | 6 27 | 10 28 | 22 53 | 22 44 | 20 27 | | n.a. | T 6 |
| F 7 | 15 55 | 15 4 | 3 57 | 23 40 | 2 2 | 26 48 | 3 7 | 16 41 | 0 15 | 21 4 | 1 7 | 22 11 | 1 9 | 1 39 | 0 42 | 14 13 | 1 44 | 6 27 | 10 28 | 22 54 | 22 45 | 20 28 | | n.a. | F 7 |
| S 8 | 16 12 | 19 3 | 2 59 | 23 45 | 1 57 | 26 47 | 3 5 | 16 54 | 0 15 | 21 2 | 1 7 | 22 11 | 1 9 | 1 38 | 0 42 | 14 14 | 1 44 | 6 28 | 10 28 | 22 55 | 22 45 | 20 30 | | n.a. | S 8 |
| S 9 | 16 29 | 21 44 | 1 49 | 23 48 | 1 50 | 26 46 | 3 3 | 17 6 | 0 16 | 21 0 | 1 7 | 22 10 | 1 9 | 1 37 | 0 42 | 14 15 | 1 44 | 6 28 | 10 28 | 22 55 | 22 45 | 20 31 | | n.a. | S 9 |
| M10 | 16 46 | 22 54 | 0 32 | 23 50 | 1 42 | 26 44 | 3 1 | 17 19 | 0 16 | 20 59 | 1 6 | 22 9 | 1 8 | 1 36 | 0 42 | 14 15 | 1 44 | 6 28 | 10 28 | 22 56 | 22 46 | 20 33 | | n.a. | M10 |
| T 11 | 17 3 | 22 30 | 0s45 | 23 50 | 1 34 | 26 41 | 2 59 | 17 31 | 0 17 | 20 57 | 1 6 | 22 8 | 1 8 | 1 35 | 0 42 | 14 16 | 1 44 | 6 29 | 10 28 | 22 56 | 22 46 | 20 34 | | n.a. | T 11 |
| W12 | 17 19 | 20 41 | 1 57 | 23 48 | 1 25 | 26 38 | 2 56 | 17 43 | 0 18 | 20 55 | 1 6 | 22 7 | 1 8 | 1 34 | 0 42 | 14 17 | 1 44 | 6 29 | 10 28 | 22 55 | 22 46 | 20 36 | | n.a. | W12 |
| T 13 | 17 35 | 17 42 | 3 1 | 23 44 | 1 15 | 26 34 | 2 54 | 17 55 | 0 18 | 20 54 | 1 6 | 22 7 | 1 8 | 1 33 | 0 42 | 14 17 | 1 44 | 6 30 | 10 28 | 22 55 | 22 47 | 20 37 | | n.a. | T 13 |
| F 14 | 17 51 | 13 51 | 3 53 | 23 39 | 1 5 | 26 30 | 2 51 | 18 7 | 0 19 | 20 52 | 1 6 | 22 6 | 1 8 | 1 32 | 0 42 | 14 18 | 1 44 | 6 30 | 10 28 | 22 55 | 22 47 | 20 38 | | n.a. | F 14 |
| S 15 | 18 7 | 9 26 | 4 32 | 23 33 | 0 53 | 26 26 | 2 47 | 18 18 | 0 19 | 20 50 | 1 6 | 22 5 | 1 8 | 1 31 | 0 42 | 14 19 | 1 44 | 6 31 | 10 28 | 22 56 | 22 48 | 20 40 | | n.a. | S 15 |
| S 16 | 18 22 | 4 41 | 4 57 | 23 25 | 0 41 | 26 21 | 2 44 | 18 30 | 0 20 | 20 48 | 1 6 | 22 4 | 1 8 | 1 30 | 0 42 | 14 19 | 1 44 | 6 31 | 10 28 | 22 56 | 22 48 | 20 41 | | n.a. | S 16 |
| M17 | 18 37 | 0n11 | 5 6 | 23 16 | 0 29 | 26 15 | 2 40 | 18 41 | 0 20 | 20 46 | 1 6 | 22 3 | 1 8 | 1 30 | 0 42 | 14 20 | 1 44 | 6 31 | 10 28 | 22 57 | 22 48 | 20 43 | | n.a. | M17 |
| T 18 | 18 51 | 4 58 | 5 1 | 23 5 | 0 15 | 26 10 | 2 36 | 18 52 | 0 21 | 20 44 | 1 6 | 22 2 | 1 8 | 1 29 | 0 42 | 14 21 | 1 44 | 6 32 | 10 28 | 22 58 | 22 49 | 20 44 | | n.a. | T 18 |
| W19 | 19 6 | 9 30 | 4 42 | 22 54 | 0 2 | 26 3 | 2 32 | 19 3 | 0 22 | 20 42 | 1 5 | 22 1 | 1 8 | 1 28 | 0 42 | 14 21 | 1 44 | 6 32 | 10 28 | 22 59 | 22 49 | 20 45 | | n.a. | W19 |
| T 20 | 19 19 | 13 36 | 4 11 | 22 41 | 0s13 | 25 56 | 2 28 | 19 14 | 0 22 | 20 40 | 1 5 | 22 0 | 1 8 | 1 27 | 0 42 | 14 22 | 1 44 | 6 33 | 10 28 | 23 0 | 22 49 | 20 47 | | n.a. | T 20 |
| F 21 | 19 33 | 17 9 | 3 29 | 22 27 | 0 28 | 25 49 | 2 23 | 19 24 | 0 23 | 20 38 | 1 5 | 21 59 | 1 8 | 1 26 | 0 42 | 14 23 | 1 44 | 6 33 | 10 28 | 23 1 | 22 50 | 20 48 | | n.a. | F 21 |
| S 22 | 19 47 | 19 58 | 2 38 | 22 13 | 0 43 | 25 42 | 2 18 | 19 35 | 0 23 | 20 36 | 1 5 | 21 58 | 1 8 | 1 25 | 0 42 | 14 23 | 1 44 | 6 33 | 10 28 | 23 1 | 22 50 | 20 50 | | n.a. | S 22 |
| S 23 | 20 0 | 21 55 | 1 40 | 21 57 | 0 59 | 25 34 | 2 12 | 19 45 | 0 24 | 20 34 | 1 5 | 21 57 | 1 8 | 1 24 | 0 42 | 14 24 | 1 44 | 6 34 | 10 28 | 23 2 | 22 50 | 20 51 | | n.a. | S 23 |
| M24 | 20 12 | 22 55 | 0 38 | 21 41 | 1 15 | 25 26 | 2 7 | 19 55 | 0 24 | 20 32 | 1 5 | 21 56 | 1 8 | 1 24 | 0 42 | 14 25 | 1 44 | 6 34 | 10 28 | 23 2 | 22 51 | 20 52 | | n.a. | M24 |
| T 25 | 20 25 | 22 54 | 0n26 | 21 24 | 1 32 | 25 17 | 2 1 | 20 5 | 0 25 | 20 30 | 1 5 | 21 55 | 1 8 | 1 23 | 0 42 | 14 25 | 1 44 | 6 34 | 10 28 | 23 2 | 22 51 | 20 54 | | n.a. | T 25 |
| W26 | 20 37 | 21 50 | 1 30 | 21 6 | 1 48 | 25 8 | 1 55 | 20 15 | 0 25 | 20 28 | 1 5 | 21 54 | 1 8 | 1 22 | 0 42 | 14 26 | 1 44 | 6 35 | 10 28 | 23 2 | 22 52 | 20 55 | | n.a. | W26 |
| T 27 | 20 48 | 19 45 | 2 30 | 20 48 | 2 4 | 24 59 | 1 48 | 20 25 | 0 26 | 20 25 | 1 5 | 21 53 | 1 8 | 1 21 | 0 42 | 14 27 | 1 44 | 6 35 | 10 28 | 23 2 | 22 52 | 20 56 | | n.a. | T 27 |
| F 28 | 21 0 | 16 45 | 3 25 | 20 30 | 2 20 | 24 50 | 1 42 | 20 34 | 0 27 | 20 23 | 1 5 | 21 52 | 1 8 | 1 21 | 0 42 | 14 27 | 1 44 | 6 35 | 10 28 | 23 2 | 22 52 | 20 58 | | n.a. | F 28 |
| S 29 | 21 11 | 12 53 | 4 12 | 20 12 | 2 36 | 24 40 | 1 35 | 20 44 | 0 27 | 20 21 | 1 5 | 21 51 | 1 8 | 1 20 | 0 42 | 14 28 | 1 44 | 6 36 | 10 28 | 23 2 | 22 53 | 20 59 | | n.a. | S 29 |
| S 30 | 21 21 | 8 20 | 4 47 | 19 53 | 2 52 | 24 30 | 1 27 | 20 53 | 0 28 | 20 18 | 1 4 | 21 50 | 1 8 | 1 19 | 0 42 | 14 29 | 1 44 | 6 36 | 10 28 | 23 2 | 22 53 | 21 0 | | n.a. | S 30 |
| M31 | 21n32 | 3n13 | 5n 7 | 19n35 | 3s 6 | 24n19 | 1n19 | 21n 2 | 0n28 | 20n16 | 1n 4 | 21n48 | 1n 8 | 1s18 | 0s42 | 14n29 | 1s44 | 6n36 | 10s28 | 23n 2 | 22n53 | 21n 2 | | n.a. | M31 |

Julian Day Number = 1690497.5, Delta T = 03h10m44s
Ecliptic obliquity = 23°42'17, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°14'01, Lahiri = - 5°07'01 Julian Calendar 1 May 85 BCE == Greg. Calendar 29 Apr. 085 BCE

The year -84 astronomical counting style corresponds to year 085 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 85 BCE
# geocentric

## JUNE 85 BCE (-84) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 27 15 | 6♊49'42 | 17♎39 | 12°R57 | 13♋58 | 1♊35 | 5♌ 9 | 28♋34 | 28♓23 | 13♉47 | 15♉23 | 13°R14 | 14♋36 | 19♊11 | n.a. | T 1 |
| W 2 | 16 31 12 | 7°46'47 | 2♏ 6 | 12♊22 | 14°20 | 2°15 | 5°19 | 28°39 | 28°24 | 13°49 | 15°25 | 13♋ 9 | 14°33 | 19°17 | n.a. | W 2 |
| T 3 | 16 35 8 | 8°43'53 | 16°56 | 11°46 | 14°41 | 2°55 | 5°28 | 28°45 | 28°26 | 13°51 | 15°26 | 13° 4 | 14°30 | 19°24 | n.a. | T 3 |
| F 4 | 16 39 5 | 9°40'58 | 2♐ 2 | 11°10 | 15° 0 | 3°35 | 5°38 | 28°51 | 28°27 | 13°53 | 15°27 | 13° 0 | 14°26 | 19°31 | n.a. | F 4 |
| S 5 | 16 43 1 | 10°38'03 | 17°16 | 10°33 | 15°16 | 4°14 | 5°47 | 28°57 | 28°29 | 13°55 | 15°29 | 12°57 | 14°23 | 19°37 | n.a. | S 5 |
| S 6 | 16 46 58 | 11°35'09 | 2♑26 | 9°56 | 15°31 | 4°54 | 5°57 | 29° 2 | 28°30 | 13°57 | 15°30 | 12°55 | 14°20 | 19°44 | n.a. | S 6 |
| M 7 | 16 50 55 | 12°32'15 | 17°24 | 9°21 | 15°44 | 5°34 | 6° 7 | 29° 8 | 28°32 | 13°59 | 15°31 | 12°D55 | 14°17 | 19°51 | n.a. | M 7 |
| T 8 | 16 54 51 | 13°29'21 | 2♒ 2 | 8°47 | 15°55 | 6°13 | 6°17 | 29°14 | 28°33 | 14° 1 | 15°32 | 12°56 | 14°14 | 19°57 | n.a. | T 8 |
| W 9 | 16 58 48 | 14°26'28 | 16°17 | 8°15 | 16° 4 | 6°53 | 6°27 | 29°20 | 28°35 | 14° 3 | 15°34 | 12°57 | 14°11 | 20° 4 | n.a. | W 9 |
| T 10 | 17 2 44 | 15°23'35 | 0♓ 6 | 7°47 | 16°11 | 7°33 | 6°37 | 29°27 | 28°36 | 14° 5 | 15°35 | 12°58 | 14° 7 | 20°11 | n.a. | T 10 |
| F 11 | 17 6 41 | 16°20'42 | 13°31 | 7°21 | 16°15 | 8°12 | 6°48 | 29°33 | 28°37 | 14° 7 | 15°36 | 12°R59 | 14° 4 | 20°17 | n.a. | F 11 |
| S 12 | 17 10 37 | 17°17'50 | 26°33 | 6°59 | 16°R17 | 8°52 | 6°58 | 29°39 | 28°39 | 14° 9 | 15°37 | 12°59 | 14° 1 | 20°24 | n.a. | S 12 |
| S 13 | 17 14 34 | 18°14'59 | 9♈16 | 6°42 | 16°17 | 9°31 | 7° 8 | 29°45 | 28°40 | 14°11 | 15°39 | 12°57 | 13°58 | 20°31 | n.a. | S 13 |
| M14 | 17 18 30 | 19°12'09 | 21°42 | 6°29 | 16°15 | 10°10 | 7°19 | 29°51 | 28°41 | 14°13 | 15°40 | 12°55 | 13°55 | 20°37 | n.a. | M14 |
| T 15 | 17 22 27 | 20° 9'19 | 3♉55 | 6°21 | 16°10 | 10°50 | 7°30 | 29°58 | 28°42 | 14°15 | 15°41 | 12°52 | 13°52 | 20°44 | n.a. | T 15 |
| W16 | 17 26 24 | 21° 6'30 | 15°58 | 6°D18 | 16° 3 | 11°29 | 7°40 | 0♌ 4 | 28°43 | 14°17 | 15°42 | 12°48 | 13°48 | 20°50 | n.a. | W16 |
| T 17 | 17 30 20 | 22° 3'41 | 27°54 | 6°20 | 15°54 | 12° 9 | 7°51 | 0°11 | 28°44 | 14°19 | 15°43 | 12°45 | 13°45 | 20°57 | n.a. | T 17 |
| F 18 | 17 34 17 | 23° 0'53 | 9♊44 | 6°28 | 15°42 | 12°48 | 8° 2 | 0°17 | 28°45 | 14°21 | 15°44 | 12°42 | 13°42 | 21° 4 | n.a. | F 18 |
| S 19 | 17 38 13 | 23°58'06 | 21°32 | 6°41 | 15°28 | 13°27 | 8°13 | 0°24 | 28°46 | 14°22 | 15°45 | 12°40 | 13°39 | 21°10 | n.a. | S 19 |
| S 20 | 17 42 10 | 24°55'19 | 3♋20 | 7° 0 | 15°11 | 14° 6 | 8°24 | 0°30 | 28°47 | 14°24 | 15°47 | 12°39 | 13°36 | 21°17 | n.a. | S 20 |
| M21 | 17 46 6 | 25°52'33 | 15° 9 | 7°25 | 14°53 | 14°46 | 8°35 | 0°37 | 28°48 | 14°26 | 15°48 | 12°D38 | 13°32 | 21°24 | n.a. | M21 |
| T 22 | 17 50 3 | 26°49'48 | 27° 3 | 7°55 | 14°32 | 15°25 | 8°46 | 0°44 | 28°48 | 14°28 | 15°49 | 12°39 | 13°29 | 21°30 | n.a. | T 22 |
| W23 | 17 54 0 | 27°47'03 | 9♌ 4 | 8°31 | 14° 8 | 16° 4 | 8°57 | 0°50 | 28°49 | 14°30 | 15°50 | 12°40 | 13°26 | 21°37 | n.a. | W23 |
| T 24 | 17 57 56 | 28°44'18 | 21°15 | 9°13 | 13°43 | 16°43 | 9° 8 | 0°57 | 28°50 | 14°31 | 15°51 | 12°41 | 13°23 | 21°44 | n.a. | T 24 |
| F 25 | 18 1 53 | 29°41'34 | 3♍39 | 10° 0 | 13°16 | 17°22 | 9°20 | 1° 4 | 28°50 | 14°33 | 15°52 | 12°42 | 13°20 | 21°50 | n.a. | F 25 |
| S 26 | 18 5 49 | 0♋38'51 | 16°20 | 10°52 | 12°47 | 18° 1 | 9°31 | 1°11 | 28°51 | 14°35 | 15°53 | 12°43 | 13°17 | 21°57 | n.a. | S 26 |
| S 27 | 18 9 46 | 1°36'08 | 29°22 | 11°50 | 12°16 | 18°40 | 9°42 | 1°18 | 28°52 | 14°36 | 15°54 | 12°R44 | 13°13 | 22° 4 | n.a. | S 27 |
| M28 | 18 13 42 | 2°33'26 | 12♎47 | 12°54 | 11°44 | 19°19 | 9°54 | 1°25 | 28°52 | 14°38 | 15°55 | 12°43 | 13°10 | 22°10 | n.a. | M28 |
| T 29 | 18 17 39 | 3°30'44 | 26°37 | 14° 3 | 11°10 | 19°58 | 10° 6 | 1°32 | 28°52 | 14°40 | 15°56 | 12°43 | 13° 7 | 22°17 | n.a. | T 29 |
| W30 | 18 21 35 | 4♋28'03 | 10♏53 | 15♊16 | 10♋35 | 20♊37 | 10♌17 | 1♌39 | 28♓53 | 14♉41 | 15♉57 | 12♋42 | 13♋ 4 | 22♊24 | n.a. | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21n41 | 2s13 | 5n11 | 19n17 | 3s20 | 24n 9 | 1n11 | 21n11 | 0n29 | 20n14 | 1n 4 | 21n47 | 1n 8 | 1s18 | 0s42 | 14n30 | 1s44 | 6n37 | 10s28 | 23n 2 | 22n54 | 21n 3 | | n.a. |
| W 2 | 21 51 | 7 43 | 4 55 | 19 0 | 3 34 | 23 58 | 1 3 | 21 19 | 0 29 | 20 11 | 1 4 | 21 46 | 1 8 | 1 17 | 0 42 | 14 30 | 1 44 | 6 37 | 10 28 | 23 3 | 22 54 | 21 4 | | n.a. |
| T 3 | 22 0 | 12 56 | 4 19 | 18 43 | 3 46 | 23 47 | 0 54 | 21 28 | 0 30 | 20 9 | 1 4 | 21 45 | 1 8 | 1 17 | 0 42 | 14 31 | 1 44 | 6 37 | 10 28 | 23 3 | 22 54 | 21 6 | | n.a. |
| F 4 | 22 9 | 17 27 | 3 25 | 18 28 | 3 56 | 23 36 | 0 45 | 21 36 | 0 30 | 20 6 | 1 4 | 21 44 | 1 8 | 1 16 | 0 42 | 14 32 | 1 44 | 6 38 | 10 28 | 23 4 | 22 55 | 21 7 | | n.a. |
| S 5 | 22 17 | 20 50 | 2 16 | 18 13 | 4 6 | 23 25 | 0 36 | 21 44 | 0 31 | 20 4 | 1 4 | 21 42 | 1 8 | 1 15 | 0 42 | 14 32 | 1 44 | 6 38 | 10 28 | 23 4 | 22 55 | 21 8 | | n.a. |
| S 6 | 22 25 | 22 44 | 0 57 | 18 0 | 4 14 | 23 13 | 0 26 | 21 52 | 0 31 | 20 1 | 1 4 | 21 41 | 1 8 | 1 15 | 0 42 | 14 33 | 1 44 | 6 38 | 10 28 | 23 4 | 22 55 | 21 10 | | n.a. |
| M 7 | 22 33 | 22 58 | 0s25 | 17 48 | 4 21 | 23 1 | 0 16 | 22 0 | 0 32 | 19 59 | 1 4 | 21 40 | 1 8 | 1 14 | 0 42 | 14 33 | 1 44 | 6 39 | 10 28 | 23 4 | 22 56 | 21 11 | | n.a. |
| T 8 | 22 40 | 21 36 | 1 43 | 17 37 | 4 26 | 22 50 | 0 5 | 22 7 | 0 32 | 19 56 | 1 4 | 21 39 | 1 8 | 1 14 | 0 42 | 14 34 | 1 44 | 6 39 | 10 28 | 23 4 | 22 56 | 21 12 | | n.a. |
| W 9 | 22 47 | 18 53 | 2 53 | 17 29 | 4 30 | 22 38 | 0s 6 | 22 14 | 0 33 | 19 54 | 1 4 | 21 37 | 1 8 | 1 13 | 0 42 | 14 35 | 1 44 | 6 39 | 10 28 | 23 4 | 22 56 | 21 14 | | n.a. |
| T 10 | 22 54 | 15 9 | 3 51 | 17 22 | 4 32 | 22 26 | 0 17 | 22 22 | 0 33 | 19 51 | 1 4 | 21 36 | 1 8 | 1 13 | 0 42 | 14 35 | 1 44 | 6 39 | 10 28 | 23 4 | 22 57 | 21 15 | | n.a. |
| F 11 | 23 0 | 10 45 | 4 34 | 17 18 | 4 33 | 22 14 | 0 28 | 22 29 | 0 34 | 19 48 | 1 4 | 21 35 | 1 8 | 1 12 | 0 43 | 14 36 | 1 44 | 6 40 | 10 28 | 23 4 | 22 57 | 21 16 | | n.a. |
| S 12 | 23 5 | 5 59 | 5 2 | 17 15 | 4 32 | 22 2 | 0 40 | 22 35 | 0 35 | 19 45 | 1 3 | 21 33 | 1 8 | 1 12 | 0 43 | 14 36 | 1 44 | 6 40 | 10 28 | 23 4 | 22 57 | 21 18 | | n.a. |
| S 13 | 23 11 | 1 5 | 5 14 | 17 14 | 4 30 | 21 50 | 0 53 | 22 42 | 0 35 | 19 43 | 1 3 | 21 32 | 1 8 | 1 11 | 0 43 | 14 37 | 1 44 | 6 40 | 10 29 | 23 4 | 22 58 | 21 19 | | n.a. |
| M14 | 23 16 | 3n45 | 5 11 | 17 16 | 4 26 | 21 38 | 1 5 | 22 48 | 0 36 | 19 40 | 1 3 | 21 31 | 1 8 | 1 11 | 0 43 | 14 37 | 1 44 | 6 41 | 10 29 | 23 4 | 22 58 | 21 20 | | n.a. |
| T 15 | 23 20 | 8 22 | 4 54 | 17 20 | 4 21 | 21 25 | 1 18 | 22 55 | 0 36 | 19 37 | 1 3 | 21 29 | 1 8 | 1 10 | 0 43 | 14 38 | 1 44 | 6 41 | 10 29 | 23 4 | 22 58 | 21 21 | | n.a. |
| W16 | 23 24 | 12 36 | 4 24 | 17 25 | 4 14 | 21 13 | 1 31 | 23 1 | 0 37 | 19 34 | 1 3 | 21 28 | 1 8 | 1 10 | 0 43 | 14 38 | 1 44 | 6 41 | 10 29 | 23 5 | 22 59 | 21 23 | | n.a. |
| T 17 | 23 28 | 16 18 | 3 42 | 17 33 | 4 7 | 21 1 | 1 44 | 23 7 | 0 37 | 19 31 | 1 3 | 21 27 | 1 8 | 1 10 | 0 43 | 14 39 | 1 44 | 6 41 | 10 29 | 23 5 | 22 59 | 21 24 | | n.a. |
| F 18 | 23 31 | 19 19 | 2 52 | 17 43 | 3 59 | 20 49 | 1 58 | 23 12 | 0 38 | 19 29 | 1 3 | 21 25 | 1 8 | 1 9 | 0 43 | 14 39 | 1 45 | 6 41 | 10 29 | 23 5 | 22 59 | 21 25 | | n.a. |
| S 19 | 23 34 | 21 32 | 1 54 | 17 54 | 3 49 | 20 37 | 2 12 | 23 18 | 0 38 | 19 26 | 1 3 | 21 24 | 1 8 | 1 9 | 0 43 | 14 40 | 1 45 | 6 42 | 10 29 | 23 6 | 23 0 | 21 26 | | n.a. |
| S 20 | 23 36 | 22 48 | 0 51 | 18 8 | 3 39 | 20 25 | 2 26 | 23 23 | 0 39 | 19 23 | 1 3 | 21 22 | 1 8 | 1 9 | 0 43 | 14 40 | 1 45 | 6 42 | 10 29 | 23 6 | 23 0 | 21 28 | | n.a. |
| M21 | 23 38 | 23 4 | 0n14 | 18 23 | 3 28 | 20 13 | 2 40 | 23 28 | 0 39 | 19 20 | 1 3 | 21 21 | 1 8 | 1 8 | 0 43 | 14 41 | 1 45 | 6 42 | 10 29 | 23 6 | 23 0 | 21 29 | | n.a. |
| T 22 | 23 40 | 22 16 | 1 19 | 18 39 | 3 16 | 20 1 | 2 54 | 23 33 | 0 40 | 19 17 | 1 3 | 21 19 | 1 8 | 1 8 | 0 43 | 14 41 | 1 45 | 6 42 | 10 29 | 23 6 | 23 1 | 21 30 | | n.a. |
| W23 | 23 41 | 20 27 | 2 21 | 18 57 | 3 3 | 19 50 | 3 8 | 23 38 | 0 40 | 19 14 | 1 3 | 21 18 | 1 8 | 1 8 | 0 43 | 14 42 | 1 45 | 6 43 | 10 29 | 23 6 | 23 1 | 21 31 | | n.a. |
| T 24 | 23 42 | 17 42 | 3 18 | 19 16 | 2 50 | 19 38 | 3 22 | 23 42 | 0 41 | 19 11 | 1 3 | 21 17 | 1 8 | 1 8 | 0 43 | 14 42 | 1 45 | 6 43 | 10 30 | 23 6 | 23 1 | 21 33 | | n.a. |
| F 25 | 23 42 | 14 6 | 4 7 | 19 36 | 2 37 | 19 27 | 3 36 | 23 47 | 0 41 | 19 7 | 1 3 | 21 15 | 1 8 | 1 7 | 0 43 | 14 43 | 1 45 | 6 43 | 10 30 | 23 5 | 23 2 | 21 34 | | n.a. |
| S 26 | 23 42 | 9 48 | 4 44 | 19 57 | 2 23 | 19 16 | 3 50 | 23 51 | 0 42 | 19 4 | 1 3 | 21 13 | 1 8 | 1 7 | 0 43 | 14 43 | 1 45 | 6 43 | 10 30 | 23 5 | 23 2 | 21 35 | | n.a. |
| S 27 | 23 42 | 4 58 | 5 9 | 20 19 | 2 9 | 19 5 | 4 4 | 23 55 | 0 42 | 19 1 | 1 3 | 21 12 | 1 8 | 1 7 | 0 43 | 14 44 | 1 45 | 6 43 | 10 30 | 23 5 | 23 2 | 21 36 | | n.a. |
| M28 | 23 41 | 0s14 | 5 17 | 20 41 | 1 55 | 18 54 | 4 18 | 23 59 | 0 43 | 18 58 | 1 3 | 21 10 | 1 8 | 1 7 | 0 43 | 14 44 | 1 45 | 6 43 | 10 30 | 23 5 | 23 3 | 21 38 | | n.a. |
| T 29 | 23 39 | 5 36 | 5 8 | 21 4 | 1 41 | 18 43 | 4 31 | 24 2 | 0 43 | 18 55 | 1 3 | 21 9 | 1 8 | 1 7 | 0 43 | 14 45 | 1 45 | 6 44 | 10 30 | 23 5 | 23 3 | 21 39 | | n.a. |
| W30 | 23n38 | 10s49 | 4n40 | 21n27 | 1s27 | 18n33 | 4s44 | 24n 6 | 0n44 | 18n52 | 1n 3 | 21n 7 | 1n 8 | 1s 7 | 0s43 | 14n45 | 1s45 | 6n44 | 10s30 | 23n 5 | 23n 3 | 21n40 | | n.a. |

Julian Day Number = 1690528.5, Delta T = 03h10m43s
Ecliptic obliquity = 23°42'17, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°13'57, Lahiri = - 5°06'57 Julian Calendar 1 June 85 BCE == Greg. Calendar 30 May 085 BCE

The year -84 astronomical counting style corresponds to year 085 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 85 BCE
# geocentric

## JULY 85 BCE (-84) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 25 32 | 5♋25'22 | 25♏31 | 16♊35 | 10°R 0 | 21♊16 | 10♌29 | 1♌46 | 28♓53 | 14♉43 | 15♉58 | 12°R41 | 13♋ 1 | 22♊30 | n.a. | T 1 |
| F 2 | 18 29 29 | 6°22'43 | 10♐28 | 17°59 | 9♋23 | 21°55 | 10°41 | 1°53 | 28°53 | 14°44 | 15°59 | 12♋40 | 12°58 | 22°37 | n.a. | F 2 |
| S 3 | 18 33 25 | 7°20'04 | 25°36 | 19°27 | 8°46 | 22°34 | 10°52 | 2° 0 | 28°54 | 14°46 | 16° 0 | 12°40 | 12°54 | 22°44 | n.a. | S 3 |
| S 4 | 18 37 22 | 8°17'26 | 10♑46 | 21° 0 | 8° 9 | 23°12 | 11° 4 | 2° 7 | 28°54 | 14°47 | 16° 1 | 12°D40 | 12°51 | 22°50 | n.a. | S 4 |
| M 5 | 18 41 18 | 9°14'50 | 25°48 | 22°37 | 7°31 | 23°51 | 11°16 | 2°14 | 28°54 | 14°49 | 16° 2 | 12°40 | 12°48 | 22°57 | n.a. | M 5 |
| T 6 | 18 45 15 | 10°12'14 | 10♒35 | 24°18 | 6°54 | 24°30 | 11°28 | 2°21 | 28°54 | 14°50 | 16° 3 | 12°40 | 12°45 | 23° 4 | n.a. | T 6 |
| W 7 | 18 49 11 | 11° 9'40 | 25° 0 | 26° 3 | 6°18 | 25° 9 | 11°40 | 2°29 | 28°R54 | 14°52 | 16° 4 | 12°40 | 12°42 | 23°10 | n.a. | W 7 |
| T 8 | 18 53 8 | 12° 7'07 | 8♓59 | 27°51 | 5°42 | 25°47 | 11°52 | 2°36 | 28°54 | 14°53 | 16° 4 | 12°40 | 12°38 | 23°17 | n.a. | T 8 |
| F 9 | 18 57 4 | 13° 4'35 | 22°31 | 29°42 | 5° 7 | 26°26 | 12° 4 | 2°43 | 28°54 | 14°55 | 16° 5 | 12°R40 | 12°35 | 23°24 | n.a. | F 9 |
| S 10 | 19 1 1 | 14° 2'05 | 5♈38 | 1♋36 | 4°33 | 27° 5 | 12°16 | 2°50 | 28°54 | 14°56 | 16° 6 | 12°40 | 12°32 | 23°30 | n.a. | S 10 |
| S 11 | 19 4 58 | 14°59'36 | 18°22 | 3°32 | 4° 1 | 27°43 | 12°29 | 2°58 | 28°54 | 14°57 | 16° 7 | 12°D40 | 12°29 | 23°37 | n.a. | S 11 |
| M12 | 19 8 54 | 15°57'09 | 0♉46 | 5°30 | 3°30 | 28°22 | 12°41 | 3° 5 | 28°54 | 14°59 | 16° 8 | 12°40 | 12°26 | 23°44 | n.a. | M12 |
| T 13 | 19 12 51 | 16°54'44 | 12°55 | 7°30 | 3° 1 | 29° 1 | 12°53 | 3°12 | 28°53 | 15° 0 | 16° 8 | 12°41 | 12°23 | 23°50 | n.a. | T 13 |
| W14 | 19 16 47 | 17°52'20 | 24°53 | 9°31 | 2°33 | 29°39 | 13° 5 | 3°20 | 28°53 | 15° 1 | 16° 9 | 12°41 | 12°19 | 23°57 | n.a. | W14 |
| T 15 | 19 20 44 | 18°49'57 | 6♊44 | 11°32 | 2° 8 | 0♋18 | 13°18 | 3°27 | 28°53 | 15° 2 | 16°10 | 12°42 | 12°16 | 24° 4 | n.a. | T 15 |
| F 16 | 19 24 40 | 19°47'37 | 18°31 | 13°34 | 1°45 | 0°56 | 13°30 | 3°34 | 28°52 | 15° 3 | 16°11 | 12°43 | 12°13 | 24°10 | n.a. | F 16 |
| S 17 | 19 28 37 | 20°45'17 | 0♋19 | 15°37 | 1°23 | 1°35 | 13°43 | 3°42 | 28°52 | 15° 5 | 16°11 | 12°43 | 12°10 | 24°17 | n.a. | S 17 |
| S 18 | 19 32 33 | 21°43'00 | 12°10 | 17°39 | 1° 5 | 2°13 | 13°55 | 3°49 | 28°51 | 15° 6 | 16°12 | 12°R43 | 12° 7 | 24°23 | n.a. | S 18 |
| M19 | 19 36 30 | 22°40'43 | 24° 6 | 19°41 | 0°48 | 2°52 | 14° 8 | 3°57 | 28°51 | 15° 7 | 16°13 | 12°43 | 12° 4 | 24°30 | n.a. | M19 |
| T 20 | 19 40 27 | 23°38'29 | 6♌ 9 | 21°42 | 0°34 | 3°30 | 14°20 | 4° 4 | 28°50 | 15° 8 | 16°13 | 12°42 | 12° 0 | 24°37 | n.a. | T 20 |
| W21 | 19 44 23 | 24°36'15 | 18°21 | 23°43 | 0°22 | 4° 8 | 14°33 | 4°12 | 28°49 | 15° 9 | 16°14 | 12°41 | 11°57 | 24°43 | n.a. | W21 |
| T 22 | 19 48 20 | 25°34'03 | 0♍44 | 25°43 | 0°12 | 4°47 | 14°45 | 4°19 | 28°49 | 15°10 | 16°14 | 12°39 | 11°54 | 24°50 | n.a. | T 22 |
| F 23 | 19 52 16 | 26°31'53 | 13°20 | 27°42 | 0° 5 | 5°25 | 14°58 | 4°27 | 28°48 | 15°11 | 16°15 | 12°37 | 11°51 | 24°57 | n.a. | F 23 |
| S 24 | 19 56 13 | 27°29'43 | 26°11 | 29°40 | 0° 0 | 6° 3 | 15°11 | 4°34 | 28°47 | 15°12 | 16°16 | 12°36 | 11°48 | 25° 3 | n.a. | S 24 |
| S 25 | 20 0 9 | 28°27'35 | 9♎17 | 1♌37 | 29♊58 | 6°41 | 15°23 | 4°42 | 28°46 | 15°13 | 16°16 | 12°34 | 11°44 | 25°10 | n.a. | S 25 |
| M26 | 20 4 6 | 29°25'29 | 22°42 | 3°33 | 29°D58 | 7°20 | 15°36 | 4°49 | 28°46 | 15°14 | 16°17 | 12°33 | 11°41 | 25°17 | n.a. | M26 |
| T 27 | 20 8 2 | 0♌23'23 | 6♏25 | 5°28 | 29°59 | 7°58 | 15°49 | 4°57 | 28°45 | 15°15 | 16°17 | 12°D33 | 11°38 | 25°23 | n.a. | T 27 |
| W28 | 20 11 59 | 1°21'20 | 20°28 | 7°21 | 0♋ 4 | 8°36 | 16° 2 | 5° 4 | 28°44 | 15°15 | 16°18 | 12°34 | 11°35 | 25°30 | n.a. | W28 |
| T 29 | 20 15 56 | 2°19'17 | 4♐50 | 9°13 | 0°11 | 9°14 | 16°14 | 5°12 | 28°43 | 15°16 | 16°18 | 12°35 | 11°32 | 25°37 | n.a. | T 29 |
| F 30 | 20 19 52 | 3°17'16 | 19°27 | 11° 4 | 0°20 | 9°52 | 16°27 | 5°20 | 28°42 | 15°17 | 16°19 | 12°37 | 11°29 | 25°43 | n.a. | F 30 |
| S 31 | 20 23 49 | 4♌15'17 | 4♑16 | 12♌54 | 0♋31 | 10♋31 | 16♌40 | 5♌27 | 28♓40 | 15♉18 | 16♉19 | 12♋37 | 11♋25 | 25♊50 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| T 1 | 23n36 | 15s35 | 3n53 | 21n49 | 1s12 | 18n23 | 4s57 | 24n 9 | 0n44 | 18n48 | 1n 2 | 21n 6 | 1n 8 | 1s 6 | 0s43 | 14n46 | 1s45 | 6n44 | 10s30 | 23n 6 | 23n 4 | 21n41 | | | n.a. |
| F 2 | 23 33 | 19 28 | 2 50 | 22 11 | 0 58 | 18 14 | 5 9 | 24 12 | 0 45 | 18 45 | 1 2 | 21 4 | 1 8 | 1 6 | 0 43 | 14 46 | 1 45 | 6 44 | 10 31 | 23 6 | 23 4 | 21 42 | | | n.a. |
| S 3 | 23 30 | 22 4 | 1 33 | 22 33 | 0 44 | 18 4 | 5 21 | 24 15 | 0 45 | 18 42 | 1 2 | 21 3 | 1 8 | 1 6 | 0 43 | 14 46 | 1 45 | 6 44 | 10 31 | 23 6 | 23 4 | 21 44 | | | n.a. |
| S 4 | 23 27 | 23 5 | 0 11 | 22 53 | 0 31 | 17 56 | 5 32 | 24 17 | 0 46 | 18 38 | 1 2 | 21 1 | 1 8 | 1 6 | 0 43 | 14 47 | 1 45 | 6 44 | 10 31 | 23 6 | 23 5 | 21 45 | | | n.a. |
| M 5 | 23 23 | 22 24 | 1s12 | 23 12 | 0 18 | 17 47 | 5 43 | 24 20 | 0 46 | 18 35 | 1 2 | 20 59 | 1 8 | 1 6 | 0 43 | 14 47 | 1 45 | 6 44 | 10 31 | 23 6 | 23 5 | 21 46 | | | n.a. |
| T 6 | 23 18 | 20 10 | 2 29 | 23 30 | 0 5 | 17 39 | 5 52 | 24 22 | 0 47 | 18 32 | 1 2 | 20 58 | 1 8 | 1 6 | 0 43 | 14 48 | 1 45 | 6 44 | 10 31 | 23 6 | 23 5 | 21 47 | | | n.a. |
| W 7 | 23 14 | 16 41 | 3 34 | 23 46 | 0n 8 | 17 32 | 6 2 | 24 24 | 0 47 | 18 28 | 1 2 | 20 56 | 1 8 | 1 6 | 0 43 | 14 48 | 1 45 | 6 45 | 10 31 | 23 6 | 23 5 | 21 48 | | | n.a. |
| T 8 | 23 9 | 12 22 | 4 25 | 24 1 | 0 19 | 17 25 | 6 10 | 24 26 | 0 48 | 18 25 | 1 2 | 20 55 | 1 9 | 1 6 | 0 43 | 14 48 | 1 45 | 6 45 | 10 31 | 23 6 | 23 6 | 21 49 | | | n.a. |
| F 9 | 23 3 | 7 33 | 4 58 | 24 13 | 0 31 | 17 19 | 6 18 | 24 27 | 0 48 | 18 22 | 1 2 | 20 53 | 1 9 | 1 6 | 0 43 | 14 49 | 1 45 | 6 45 | 10 32 | 23 6 | 23 6 | 21 51 | | | n.a. |
| S 10 | 22 57 | 2 33 | 5 15 | 24 23 | 0 41 | 17 13 | 6 25 | 24 29 | 0 48 | 18 18 | 1 2 | 20 51 | 1 9 | 1 6 | 0 43 | 14 49 | 1 45 | 6 45 | 10 32 | 23 6 | 23 6 | 21 52 | | | n.a. |
| S 11 | 22 51 | 2n24 | 5 16 | 24 30 | 0 51 | 17 7 | 6 31 | 24 30 | 0 49 | 18 15 | 1 2 | 20 50 | 1 9 | 1 6 | 0 43 | 14 49 | 1 45 | 6 45 | 10 32 | 23 6 | 23 7 | 21 53 | | | n.a. |
| M12 | 22 44 | 7 9 | 5 2 | 24 35 | 1 0 | 17 3 | 6 37 | 24 31 | 0 49 | 18 11 | 1 2 | 20 48 | 1 9 | 1 7 | 0 44 | 14 50 | 1 45 | 6 45 | 10 32 | 23 6 | 23 7 | 21 54 | | | n.a. |
| T 13 | 22 37 | 11 31 | 4 35 | 24 38 | 1 8 | 16 59 | 6 42 | 24 32 | 0 50 | 18 7 | 1 2 | 20 46 | 1 9 | 1 7 | 0 44 | 14 50 | 1 46 | 6 45 | 10 32 | 23 6 | 23 7 | 21 55 | | | n.a. |
| W14 | 22 30 | 15 23 | 3 56 | 24 37 | 1 16 | 16 55 | 6 46 | 24 33 | 0 50 | 18 4 | 1 2 | 20 45 | 1 9 | 1 7 | 0 44 | 14 50 | 1 46 | 6 45 | 10 32 | 23 6 | 23 8 | 21 56 | | | n.a. |
| T 15 | 22 22 | 18 36 | 3 7 | 24 34 | 1 22 | 16 52 | 6 49 | 24 33 | 0 51 | 18 0 | 1 2 | 20 43 | 1 9 | 1 7 | 0 44 | 14 51 | 1 46 | 6 45 | 10 33 | 23 5 | 23 8 | 21 58 | | | n.a. |
| F 16 | 22 14 | 21 2 | 2 10 | 24 28 | 1 28 | 16 50 | 6 52 | 24 33 | 0 51 | 17 57 | 1 2 | 20 41 | 1 9 | 1 7 | 0 44 | 14 51 | 1 46 | 6 45 | 10 33 | 23 5 | 23 8 | 21 59 | | | n.a. |
| S 17 | 22 5 | 22 34 | 1 8 | 24 19 | 1 33 | 16 48 | 6 54 | 24 33 | 0 52 | 17 53 | 1 2 | 20 39 | 1 9 | 1 7 | 0 44 | 14 51 | 1 46 | 6 45 | 10 33 | 23 5 | 23 8 | 22 0 | | | n.a. |
| S 18 | 21 56 | 23 5 | 0 3 | 24 8 | 1 37 | 16 47 | 6 55 | 24 33 | 0 52 | 17 49 | 1 2 | 20 38 | 1 9 | 1 8 | 0 44 | 14 52 | 1 46 | 6 45 | 10 33 | 23 5 | 23 9 | 22 1 | | | n.a. |
| M19 | 21 46 | 22 34 | 1n 3 | 23 54 | 1 41 | 16 46 | 6 56 | 24 33 | 0 53 | 17 46 | 1 2 | 20 36 | 1 9 | 1 8 | 0 44 | 14 52 | 1 46 | 6 45 | 10 33 | 23 5 | 23 9 | 22 2 | | | n.a. |
| T 20 | 21 37 | 20 59 | 2 6 | 23 38 | 1 43 | 16 46 | 6 56 | 24 33 | 0 53 | 17 42 | 1 2 | 20 34 | 1 9 | 1 8 | 0 44 | 14 52 | 1 46 | 6 45 | 10 33 | 23 5 | 23 9 | 22 3 | | | n.a. |
| W21 | 21 26 | 18 25 | 3 5 | 23 19 | 1 45 | 16 47 | 6 55 | 24 32 | 0 54 | 17 38 | 1 2 | 20 32 | 1 9 | 1 8 | 0 44 | 14 52 | 1 46 | 6 45 | 10 34 | 23 6 | 23 10 | 22 4 | | | n.a. |
| T 22 | 21 16 | 15 0 | 3 56 | 22 59 | 1 47 | 16 48 | 6 54 | 24 31 | 0 54 | 17 35 | 1 2 | 20 31 | 1 9 | 1 9 | 0 44 | 14 53 | 1 46 | 6 45 | 10 34 | 23 6 | 23 10 | 22 5 | | | n.a. |
| F 23 | 21 5 | 10 51 | 4 36 | 22 36 | 1 47 | 16 50 | 6 53 | 24 30 | 0 55 | 17 31 | 1 2 | 20 29 | 1 9 | 1 9 | 0 44 | 14 53 | 1 46 | 6 45 | 10 34 | 23 6 | 23 10 | 22 7 | | | n.a. |
| S 24 | 20 54 | 6 10 | 5 3 | 22 11 | 1 47 | 16 52 | 6 51 | 24 29 | 0 55 | 17 27 | 1 2 | 20 27 | 1 9 | 1 9 | 0 44 | 14 53 | 1 46 | 6 45 | 10 34 | 23 6 | 23 10 | 22 8 | | | n.a. |
| S 25 | 20 42 | 1 6 | 5 16 | 21 45 | 1 46 | 16 54 | 6 48 | 24 27 | 0 55 | 17 23 | 1 2 | 20 25 | 1 9 | 1 10 | 0 44 | 14 53 | 1 46 | 6 45 | 10 34 | 23 6 | 23 11 | 22 9 | | | n.a. |
| M26 | 20 30 | 4s 7 | 5 11 | 21 17 | 1 45 | 16 57 | 6 45 | 24 26 | 0 56 | 17 19 | 1 2 | 20 24 | 1 9 | 1 10 | 0 44 | 14 54 | 1 46 | 6 45 | 10 34 | 23 6 | 23 11 | 22 10 | | | n.a. |
| T 27 | 20 17 | 9 16 | 4 49 | 20 47 | 1 43 | 17 0 | 6 42 | 24 24 | 0 56 | 17 16 | 1 2 | 20 22 | 1 10 | 1 11 | 0 44 | 14 54 | 1 46 | 6 45 | 10 35 | 23 6 | 23 11 | 22 11 | | | n.a. |
| W28 | 20 5 | 14 3 | 4 10 | 20 16 | 1 41 | 17 4 | 6 38 | 24 22 | 0 57 | 17 12 | 1 2 | 20 20 | 1 10 | 1 11 | 0 44 | 14 54 | 1 46 | 6 45 | 10 35 | 23 6 | 23 12 | 22 12 | | | n.a. |
| T 29 | 19 52 | 18 10 | 3 14 | 19 43 | 1 38 | 17 8 | 6 34 | 24 20 | 0 57 | 17 8 | 1 2 | 20 18 | 1 10 | 1 11 | 0 44 | 14 54 | 1 46 | 6 45 | 10 35 | 23 6 | 23 12 | 22 13 | | | n.a. |
| F 30 | 19 38 | 21 13 | 2 5 | 19 10 | 1 35 | 17 12 | 6 30 | 24 18 | 0 58 | 17 4 | 1 2 | 20 16 | 1 10 | 1 12 | 0 44 | 14 54 | 1 46 | 6 45 | 10 35 | 23 6 | 23 12 | 22 14 | | | n.a. |
| S 31 | 19n24 | 22s52 | 0n46 | 18n35 | 1n31 | 17n17 | 6s26 | 24n15 | 0n58 | 17n 0 | 1n 2 | 20n15 | 1n10 | 1s12 | 0s44 | 14n54 | 1s46 | 6n45 | 10s35 | 23n 6 | 23n12 | 22n15 | | | n.a. |

Julian Day Number = 1690558.5, Delta T = 03h10m42s
Ecliptic obliquity = 23°42'17, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°13'53, Lahiri = - 5°06'52 Julian Calendar 1 July 85 BCE == Greg. Calendar 29 June 085 BCE

The year -84 astronomical counting style corresponds to year 085 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 85 BCE
# geocentric

## AUGUST 85 BCE (-84) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 27 45 | 5♌13'19 | 19♉11 | 14♌42 | 0♋44 | 11♋ 9 | 16♌53 | 5♌35 | 28°R39 | 15♉18 | 16♉19 | 12°R38 | 11♋22 | 25♊57 | n.a. | S 1 |
| M 2 | 20 31 42 | 6°11'23 | 4♒ 3 | 16°29 | 0°59 | 11°47 | 17° 6 | 5°42 | 28♓38 | 15°19 | 16°20 | 12♋36 | 11°19 | 26° 3 | n.a. | M 2 |
| T 3 | 20 35 38 | 7° 9'28 | 18°45 | 18°14 | 1°16 | 12°25 | 17°19 | 5°50 | 28°37 | 15°20 | 16°20 | 12°34 | 11°16 | 26°10 | n.a. | T 3 |
| W 4 | 20 39 35 | 8° 7'36 | 3♓10 | 19°59 | 1°35 | 13° 3 | 17°32 | 5°57 | 28°36 | 15°20 | 16°20 | 12°31 | 11°13 | 26°17 | n.a. | W 4 |
| T 5 | 20 43 31 | 9° 5'45 | 17°13 | 21°42 | 1°56 | 13°41 | 17°45 | 6° 5 | 28°34 | 15°21 | 16°21 | 12°27 | 11° 9 | 26°23 | n.a. | T 5 |
| F 6 | 20 47 28 | 10° 3'56 | 0♈51 | 23°24 | 2°19 | 14°19 | 17°58 | 6°12 | 28°33 | 15°21 | 16°21 | 12°23 | 11° 6 | 26°30 | n.a. | F 6 |
| S 7 | 20 51 25 | 11° 2'10 | 14° 2 | 25° 5 | 2°43 | 14°57 | 18°11 | 6°20 | 28°32 | 15°22 | 16°21 | 12°20 | 11° 3 | 26°36 | n.a. | S 7 |
| S 8 | 20 55 21 | 12° 0'25 | 26°49 | 26°45 | 3° 9 | 15°35 | 18°24 | 6°28 | 28°30 | 15°22 | 16°22 | 12°18 | 11° 0 | 26°43 | n.a. | S 8 |
| M 9 | 20 59 18 | 12°58'43 | 9♉15 | 28°23 | 3°37 | 16°12 | 18°37 | 6°35 | 28°29 | 15°23 | 16°22 | 12°D17 | 10°57 | 26°50 | n.a. | M 9 |
| T 10 | 21 3 14 | 13°57'03 | 21°24 | 0♍ 0 | 4° 6 | 16°50 | 18°50 | 6°43 | 28°27 | 15°23 | 16°22 | 12°17 | 10°54 | 26°56 | n.a. | T 10 |
| W11 | 21 7 11 | 14°55'25 | 3♊21 | 1°37 | 4°36 | 17°28 | 19° 3 | 6°50 | 28°26 | 15°24 | 16°22 | 12°18 | 10°50 | 27° 3 | n.a. | W11 |
| T 12 | 21 11 7 | 15°53'49 | 15°11 | 3°12 | 5° 9 | 18° 6 | 19°16 | 6°58 | 28°24 | 15°24 | 16°22 | 12°20 | 10°47 | 27°10 | n.a. | T 12 |
| F 13 | 21 15 4 | 16°52'16 | 26°58 | 4°45 | 5°42 | 18°44 | 19°29 | 7° 5 | 28°22 | 15°24 | 16°23 | 12°21 | 10°44 | 27°16 | n.a. | F 13 |
| S 14 | 21 19 0 | 17°50'45 | 8♋48 | 6°18 | 6°17 | 19°22 | 19°42 | 7°13 | 28°21 | 15°25 | 16°23 | 12°R22 | 10°41 | 27°23 | n.a. | S 14 |
| S 15 | 21 22 57 | 18°49'15 | 20°43 | 7°50 | 6°53 | 19°59 | 19°55 | 7°20 | 28°19 | 15°25 | 16°23 | 12°22 | 10°38 | 27°30 | n.a. | S 15 |
| M16 | 21 26 54 | 19°47'48 | 2♌48 | 9°20 | 7°31 | 20°37 | 20° 8 | 7°28 | 28°17 | 15°25 | 16°23 | 12°20 | 10°35 | 27°36 | n.a. | M16 |
| T 17 | 21 30 50 | 20°46'24 | 15° 3 | 10°50 | 8° 9 | 21°15 | 20°21 | 7°35 | 28°15 | 15°25 | 16°23 | 12°16 | 10°31 | 27°43 | n.a. | T 17 |
| W18 | 21 34 47 | 21°45'01 | 27°32 | 12°18 | 8°49 | 21°53 | 20°34 | 7°42 | 28°14 | 15°25 | 16°23 | 12°11 | 10°28 | 27°50 | n.a. | W18 |
| T 19 | 21 38 43 | 22°43'40 | 10♍14 | 13°45 | 9°30 | 22°30 | 20°47 | 7°50 | 28°12 | 15°25 | 16°R23 | 12° 4 | 10°25 | 27°56 | n.a. | T 19 |
| F 20 | 21 42 40 | 23°42'21 | 23° 9 | 15°11 | 10°12 | 23° 8 | 21° 0 | 7°57 | 28°10 | 15°25 | 16°23 | 11°57 | 10°22 | 28° 3 | n.a. | F 20 |
| S 21 | 21 46 36 | 24°41'04 | 6♎18 | 16°36 | 10°55 | 23°46 | 21°13 | 8° 5 | 28° 8 | 15°25 | 16°23 | 11°50 | 10°19 | 28°10 | n.a. | S 21 |
| S 22 | 21 50 33 | 25°39'48 | 19°39 | 18° 0 | 11°39 | 24°23 | 21°26 | 8°12 | 28° 6 | 15°R25 | 16°23 | 11°44 | 10°15 | 28°16 | n.a. | S 22 |
| M23 | 21 54 29 | 26°38'35 | 3♏12 | 19°22 | 12°24 | 25° 1 | 21°39 | 8°19 | 28° 4 | 15°25 | 16°23 | 11°39 | 10°12 | 28°23 | n.a. | M23 |
| T 24 | 21 58 26 | 27°37'23 | 16°58 | 20°44 | 13°10 | 25°38 | 21°52 | 8°27 | 28° 2 | 15°25 | 16°23 | 11°37 | 10° 9 | 28°30 | n.a. | T 24 |
| W25 | 22 2 22 | 28°36'14 | 0♐54 | 22° 4 | 13°56 | 26°16 | 22° 5 | 8°34 | 28° 0 | 15°25 | 16°23 | 11°D37 | 10° 6 | 28°36 | n.a. | W25 |
| T 26 | 22 6 19 | 29°35'06 | 15° 2 | 23°22 | 14°44 | 26°53 | 22°18 | 8°41 | 27°58 | 15°25 | 16°23 | 11°37 | 10° 3 | 28°43 | n.a. | T 26 |
| F 27 | 22 10 16 | 0♍34'00 | 29°20 | 24°39 | 15°32 | 27°31 | 22°31 | 8°48 | 27°56 | 15°25 | 16°22 | 11°38 | 10° 0 | 28°49 | n.a. | F 27 |
| S 28 | 22 14 12 | 1°32'56 | 13♑45 | 25°55 | 16°22 | 28° 8 | 22°44 | 8°55 | 27°54 | 15°25 | 16°22 | 11°R39 | 9°56 | 28°56 | n.a. | S 28 |
| S 29 | 22 18 9 | 2°31'54 | 28°15 | 27° 9 | 17°12 | 28°46 | 22°57 | 9° 3 | 27°52 | 15°25 | 16°22 | 11°38 | 9°53 | 29° 3 | n.a. | S 29 |
| M30 | 22 22 5 | 3°30'53 | 12♒45 | 28°22 | 18° 2 | 29°23 | 23°10 | 9°10 | 27°50 | 15°24 | 16°22 | 11°34 | 9°50 | 29° 9 | n.a. | M30 |
| T 31 | 22 26 2 | 4♍29'55 | 27♒ 8 | 29♍32 | 18♋54 | 0♌ 1 | 23♌23 | 9♌17 | 27♓47 | 15♉24 | 16♉22 | 11♋29 | 9♋47 | 29♊16 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| S 1 | 19n10 | 22s55 | 0s36 | 18n 0 | 1n27 | 17n21 | 6s21 | 24n12 | 0n59 | 16n56 | 1n 2 | 20n13 | 1n10 | 1s13 | 0s44 | 14n55 | 1s46 | 6n45 | 10s35 | 23n 6 | 23n13 | 22n16 | | | n.a. |
| M 2 | 18 56 | 21 19 | 1 55 | 17 23 | 1 23 | 17 26 | 6 16 | 24 9 | 0 59 | 16 52 | 1 2 | 20 11 | 1 10 | 1 13 | 0 44 | 14 55 | 1 47 | 6 45 | 10 36 | 23 6 | 23 13 | 22 17 | | | n.a. |
| T 3 | 18 41 | 18 19 | 3 6 | 16 46 | 1 18 | 17 32 | 6 10 | 24 6 | 1 0 | 16 48 | 1 2 | 20 9 | 1 10 | 1 14 | 0 44 | 14 55 | 1 47 | 6 45 | 10 36 | 23 6 | 23 13 | 22 18 | | | n.a. |
| W 4 | 18 26 | 14 13 | 4 3 | 16 8 | 1 13 | 17 37 | 6 5 | 24 3 | 1 0 | 16 44 | 1 2 | 20 7 | 1 10 | 1 14 | 0 44 | 14 55 | 1 47 | 6 45 | 10 36 | 23 7 | 23 14 | 22 19 | | | n.a. |
| T 5 | 18 11 | 9 27 | 4 44 | 15 29 | 1 7 | 17 42 | 5 59 | 24 0 | 1 0 | 16 40 | 1 2 | 20 6 | 1 10 | 1 15 | 0 44 | 14 55 | 1 47 | 6 45 | 10 36 | 23 7 | 23 14 | 22 20 | | | n.a. |
| F 6 | 17 55 | 4 21 | 5 7 | 14 50 | 1 2 | 17 48 | 5 53 | 23 56 | 1 1 | 16 36 | 1 2 | 20 4 | 1 10 | 1 16 | 0 44 | 14 55 | 1 47 | 6 44 | 10 36 | 23 7 | 23 14 | 22 21 | | | n.a. |
| S 7 | 17 39 | 0n47 | 5 14 | 14 11 | 0 56 | 17 54 | 5 47 | 23 52 | 1 1 | 16 32 | 1 2 | 20 2 | 1 10 | 1 16 | 0 44 | 14 55 | 1 47 | 6 44 | 10 37 | 23 8 | 23 14 | 22 22 | | | n.a. |
| S 8 | 17 23 | 5 44 | 5 4 | 13 31 | 0 49 | 17 59 | 5 41 | 23 48 | 1 2 | 16 28 | 1 2 | 20 0 | 1 10 | 1 17 | 0 44 | 14 55 | 1 47 | 6 44 | 10 37 | 23 8 | 23 15 | 22 23 | | | n.a. |
| M 9 | 17 6 | 10 19 | 4 40 | 12 50 | 0 43 | 18 5 | 5 35 | 23 44 | 1 2 | 16 24 | 1 2 | 19 58 | 1 11 | 1 17 | 0 44 | 14 55 | 1 47 | 6 44 | 10 37 | 23 8 | 23 15 | 22 25 | | | n.a. |
| T 10 | 16 49 | 14 23 | 4 4 | 12 10 | 0 36 | 18 11 | 5 28 | 23 40 | 1 3 | 16 20 | 1 2 | 19 56 | 1 11 | 1 18 | 0 44 | 14 56 | 1 47 | 6 44 | 10 37 | 23 8 | 23 15 | 22 26 | | | n.a. |
| W11 | 16 32 | 17 50 | 3 18 | 11 29 | 0 29 | 18 16 | 5 22 | 23 35 | 1 3 | 16 16 | 1 3 | 19 55 | 1 11 | 1 19 | 0 44 | 14 56 | 1 47 | 6 44 | 10 37 | 23 8 | 23 15 | 22 27 | | | n.a. |
| T 12 | 16 15 | 20 30 | 2 23 | 10 48 | 0 22 | 18 22 | 5 15 | 23 31 | 1 3 | 16 12 | 1 3 | 19 53 | 1 11 | 1 19 | 0 44 | 14 56 | 1 47 | 6 44 | 10 38 | 23 8 | 23 16 | 22 28 | | | n.a. |
| F 13 | 15 57 | 22 17 | 1 23 | 10 7 | 0 15 | 18 27 | 5 8 | 23 26 | 1 4 | 16 8 | 1 3 | 19 51 | 1 11 | 1 20 | 0 44 | 14 56 | 1 47 | 6 44 | 10 38 | 23 7 | 23 16 | 22 29 | | | n.a. |
| S 14 | 15 39 | 23 5 | 0 20 | 9 25 | 0 8 | 18 32 | 5 1 | 23 21 | 1 4 | 16 4 | 1 3 | 19 49 | 1 11 | 1 21 | 0 44 | 14 56 | 1 47 | 6 43 | 10 38 | 23 7 | 23 16 | 22 30 | | | n.a. |
| S 15 | 15 21 | 22 50 | 0n45 | 8 44 | 0 1 | 18 37 | 4 55 | 23 16 | 1 5 | 16 0 | 1 3 | 19 47 | 1 11 | 1 21 | 0 44 | 14 56 | 1 47 | 6 43 | 10 38 | 23 7 | 23 16 | 22 31 | | | n.a. |
| M16 | 15 2 | 21 31 | 1 49 | 8 3 | 0s 7 | 18 42 | 4 48 | 23 11 | 1 5 | 15 56 | 1 3 | 19 45 | 1 11 | 1 22 | 0 44 | 14 56 | 1 47 | 6 43 | 10 38 | 23 8 | 23 17 | 22 32 | | | n.a. |
| T 17 | 14 44 | 19 11 | 2 48 | 7 22 | 0 15 | 18 47 | 4 41 | 23 5 | 1 6 | 15 51 | 1 3 | 19 43 | 1 11 | 1 23 | 0 44 | 14 56 | 1 47 | 6 43 | 10 39 | 23 8 | 23 17 | 22 32 | | | n.a. |
| W18 | 14 25 | 15 55 | 3 41 | 6 41 | 0 22 | 18 51 | 4 34 | 22 59 | 1 6 | 15 47 | 1 3 | 19 42 | 1 11 | 1 24 | 0 45 | 14 56 | 1 47 | 6 43 | 10 39 | 23 8 | 23 17 | 22 33 | | | n.a. |
| T 19 | 14 5 | 11 52 | 4 23 | 6 0 | 0 30 | 18 56 | 4 27 | 22 54 | 1 6 | 15 43 | 1 3 | 19 40 | 1 11 | 1 24 | 0 45 | 14 56 | 1 47 | 6 43 | 10 39 | 23 9 | 23 17 | 22 34 | | | n.a. |
| F 20 | 13 46 | 7 13 | 4 53 | 5 19 | 0 38 | 19 0 | 4 20 | 22 48 | 1 7 | 15 39 | 1 3 | 19 38 | 1 12 | 1 25 | 0 45 | 14 56 | 1 48 | 6 42 | 10 39 | 23 10 | 23 18 | 22 35 | | | n.a. |
| S 21 | 13 26 | 2 10 | 5 8 | 4 38 | 0 46 | 19 3 | 4 13 | 22 42 | 1 7 | 15 35 | 1 3 | 19 36 | 1 12 | 1 26 | 0 45 | 14 56 | 1 48 | 6 42 | 10 39 | 23 10 | 23 18 | 22 36 | | | n.a. |
| S 22 | 13 6 | 3s 3 | 5 6 | 3 58 | 0 54 | 19 7 | 4 6 | 22 35 | 1 8 | 15 31 | 1 3 | 19 34 | 1 12 | 1 27 | 0 45 | 14 56 | 1 48 | 6 42 | 10 39 | 23 11 | 23 18 | 22 37 | | | n.a. |
| M23 | 12 46 | 8 13 | 4 48 | 3 18 | 1 2 | 19 10 | 3 59 | 22 29 | 1 8 | 15 26 | 1 3 | 19 32 | 1 12 | 1 27 | 0 45 | 14 55 | 1 48 | 6 42 | 10 40 | 23 11 | 23 18 | 22 38 | | | n.a. |
| T 24 | 12 26 | 13 3 | 4 12 | 2 39 | 1 10 | 19 12 | 3 51 | 22 22 | 1 9 | 15 22 | 1 3 | 19 31 | 1 12 | 1 28 | 0 45 | 14 55 | 1 48 | 6 42 | 10 40 | 23 11 | 23 19 | 22 39 | | | n.a. |
| W25 | 12 5 | 17 16 | 3 22 | 2 0 | 1 18 | 19 15 | 3 44 | 22 16 | 1 9 | 15 18 | 1 3 | 19 29 | 1 12 | 1 29 | 0 45 | 14 55 | 1 48 | 6 41 | 10 40 | 23 11 | 23 19 | 22 40 | | | n.a. |
| T 26 | 11 45 | 20 33 | 2 19 | 1 21 | 1 26 | 19 17 | 3 37 | 22 9 | 1 9 | 15 14 | 1 3 | 19 27 | 1 12 | 1 30 | 0 45 | 14 55 | 1 48 | 6 41 | 10 40 | 23 11 | 23 19 | 22 41 | | | n.a. |
| F 27 | 11 24 | 22 36 | 1 6 | 0 43 | 1 33 | 19 18 | 3 30 | 22 2 | 1 10 | 15 10 | 1 3 | 19 25 | 1 12 | 1 31 | 0 45 | 14 55 | 1 48 | 6 41 | 10 40 | 23 11 | 23 19 | 22 42 | | | n.a. |
| S 28 | 11 3 | 23 10 | 0s11 | 0 6 | 1 41 | 19 20 | 3 23 | 21 55 | 1 10 | 15 5 | 1 3 | 19 23 | 1 12 | 1 32 | 0 45 | 14 55 | 1 48 | 6 41 | 10 41 | 23 11 | 23 20 | 22 43 | | | n.a. |
| S 29 | 10 41 | 22 11 | 1 28 | 0s31 | 1 49 | 19 21 | 3 16 | 21 47 | 1 11 | 15 1 | 1 4 | 19 22 | 1 13 | 1 32 | 0 45 | 14 55 | 1 48 | 6 41 | 10 41 | 23 11 | 23 20 | 22 44 | | | n.a. |
| M30 | 10 20 | 19 43 | 2 39 | 1 7 | 1 57 | 19 21 | 3 9 | 21 40 | 1 11 | 14 57 | 1 4 | 19 20 | 1 13 | 1 33 | 0 45 | 14 55 | 1 48 | 6 40 | 10 41 | 23 12 | 23 20 | 22 45 | | | n.a. |
| T 31 | 9n58 | 16s 2 | 3s39 | 1s43 | 2s 4 | 19n21 | 3s 2 | 21n32 | 1n11 | 14n53 | 1n 4 | 19n18 | 1n13 | 1s34 | 0s45 | 14n55 | 1s48 | 6n40 | 10s41 | 23n12 | 23n20 | 22n46 | | | n.a. |

Julian Day Number = 1690589.5, Delta T = 03h10m41s
Ecliptic obliquity = 23°42'17, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°13'49, Lahiri = - 5°06'48 Julian Calendar 1 Aug. 85 BCE == Greg. Calendar 30 July 085 BCE


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# ASTRODIENST EPHEMERIS for the year 85 BCE
# geocentric

## SEPTEMBER 85 BCE (-84) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 22 29 58 | 5♍28'58 | 11♓21 | 0♎41 | 19♋46 | 0♌38 | 23♌36 | 9♌24 | 27°R45 | 15°R24 | 16°R21 | 11°R21 | 9♋44 | 29♊23 | n.a. | W 1 |
| T 2 | 22 33 55 | 6°28'04 | 25°16 | 1°48 | 20°39 | 1°15 | 23°48 | 9°31 | 27♓43 | 15♉23 | 16♉21 | 11♋12 | 9°41 | 29°29 | n.a. | T 2 |
| F 3 | 22 37 51 | 7°27'12 | 8♈50 | 2°53 | 21°32 | 1°53 | 24° 1 | 9°38 | 27°41 | 15°23 | 16°21 | 11° 2 | 9°37 | 29°36 | n.a. | F 3 |
| S 4 | 22 41 48 | 8°26'22 | 22° 1 | 3°56 | 22°27 | 2°30 | 24°14 | 9°45 | 27°38 | 15°22 | 16°20 | 10°53 | 9°34 | 29°43 | n.a. | S 4 |
| S 5 | 22 45 45 | 9°25'35 | 4♉49 | 4°56 | 23°21 | 3° 7 | 24°27 | 9°52 | 27°36 | 15°22 | 16°20 | 10°46 | 9°31 | 29°49 | n.a. | S 5 |
| M 6 | 22 49 41 | 10°24'50 | 17°16 | 5°54 | 24°17 | 3°44 | 24°40 | 9°59 | 27°34 | 15°22 | 16°20 | 10°41 | 9°28 | 29°56 | n.a. | M 6 |
| T 7 | 22 53 38 | 11°24'07 | 29°26 | 6°48 | 25°13 | 4°22 | 24°53 | 10° 6 | 27°32 | 15°21 | 16°19 | 10°38 | 9°25 | 0♋ 3 | n.a. | T 7 |
| W 8 | 22 57 34 | 12°23'27 | 11♊23 | 7°40 | 26° 9 | 4°59 | 25° 5 | 10°12 | 27°29 | 15°20 | 16°19 | 10°D38 | 9°21 | 0° 9 | n.a. | W 8 |
| T 9 | 23 1 31 | 13°22'50 | 23°13 | 8°28 | 27° 6 | 5°36 | 25°18 | 10°19 | 27°27 | 15°20 | 16°18 | 10°38 | 9°18 | 0°16 | n.a. | T 9 |
| F 10 | 23 5 27 | 14°22'14 | 5♋ 1 | 9°12 | 28° 4 | 6°13 | 25°31 | 10°26 | 27°24 | 15°19 | 16°18 | 10°R39 | 9°15 | 0°23 | n.a. | F 10 |
| S 11 | 23 9 24 | 15°21'42 | 16°52 | 9°53 | 29° 2 | 6°50 | 25°43 | 10°33 | 27°22 | 15°19 | 16°17 | 10°39 | 9°12 | 0°29 | n.a. | S 11 |
| S 12 | 23 13 20 | 16°21'11 | 28°51 | 10°28 | 0♌ 1 | 7°27 | 25°56 | 10°39 | 27°20 | 15°18 | 16°17 | 10°37 | 9° 9 | 0°36 | n.a. | S 12 |
| M13 | 23 17 17 | 17°20'43 | 11♌ 3 | 10°59 | 1° 0 | 8° 4 | 26° 9 | 10°46 | 27°17 | 15°17 | 16°16 | 10°33 | 9° 6 | 0°42 | n.a. | M13 |
| T 14 | 23 21 14 | 18°20'17 | 23°30 | 11°24 | 1°59 | 8°42 | 26°21 | 10°52 | 27°15 | 15°16 | 16°16 | 10°26 | 9° 2 | 0°49 | n.a. | T 14 |
| W15 | 23 25 10 | 19°19'53 | 6♍15 | 11°44 | 2°59 | 9°19 | 26°34 | 10°59 | 27°12 | 15°16 | 16°15 | 10°17 | 8°59 | 0°56 | n.a. | W15 |
| T 16 | 23 29 7 | 20°19'32 | 19°17 | 11°57 | 4° 0 | 9°56 | 26°46 | 11° 5 | 27°10 | 15°15 | 16°15 | 10° 5 | 8°56 | 1° 2 | n.a. | T 16 |
| F 17 | 23 33 3 | 21°19'12 | 2♎36 | 12°R 3 | 5° 0 | 10°33 | 26°59 | 11°12 | 27° 8 | 15°14 | 16°14 | 9°53 | 8°53 | 1° 9 | n.a. | F 17 |
| S 18 | 23 37 0 | 22°18'55 | 16°10 | 12° 2 | 6° 2 | 11°10 | 27°11 | 11°18 | 27° 5 | 15°13 | 16°14 | 9°41 | 8°50 | 1°16 | n.a. | S 18 |
| S 19 | 23 40 56 | 23°18'39 | 29°55 | 11°53 | 7° 3 | 11°46 | 27°23 | 11°24 | 27° 3 | 15°12 | 16°13 | 9°31 | 8°46 | 1°22 | n.a. | S 19 |
| M20 | 23 44 53 | 24°18'26 | 13♏48 | 11°35 | 8° 5 | 12°23 | 27°36 | 11°31 | 27° 0 | 15°11 | 16°12 | 9°23 | 8°43 | 1°29 | n.a. | M20 |
| T 21 | 23 48 49 | 25°18'14 | 27°47 | 11° 9 | 9° 7 | 13° 0 | 27°48 | 11°37 | 26°58 | 15°10 | 16°12 | 9°18 | 8°40 | 1°36 | n.a. | T 21 |
| W22 | 23 52 46 | 26°18'04 | 11♐50 | 10°34 | 10°10 | 13°37 | 28° 0 | 11°43 | 26°55 | 15° 9 | 16°11 | 9°15 | 8°37 | 1°42 | n.a. | W22 |
| T 23 | 23 56 42 | 27°17'56 | 25°54 | 9°50 | 11°13 | 14°14 | 28°12 | 11°49 | 26°53 | 15° 8 | 16°10 | 9°D15 | 8°34 | 1°49 | n.a. | T 23 |
| F 24 | 0 0 39 | 28°17'50 | 10♑ 0 | 8°57 | 12°17 | 14°51 | 28°25 | 11°55 | 26°50 | 15° 7 | 16°10 | 9°R15 | 8°31 | 1°56 | n.a. | F 24 |
| S 25 | 0 4 36 | 29°17'46 | 24° 7 | 7°57 | 13°20 | 15°27 | 28°37 | 12° 1 | 26°48 | 15° 6 | 16° 9 | 9°14 | 8°27 | 2° 2 | n.a. | S 25 |
| S 26 | 0 8 32 | 0♎17'43 | 8♒13 | 6°50 | 14°24 | 16° 4 | 28°49 | 12° 7 | 26°46 | 15° 5 | 16° 8 | 9°12 | 8°24 | 2° 9 | n.a. | S 26 |
| M27 | 0 12 29 | 1°17'42 | 22°16 | 5°38 | 15°29 | 16°41 | 29° 1 | 12°13 | 26°43 | 15° 4 | 16° 7 | 9° 7 | 8°21 | 2°16 | n.a. | M27 |
| T 28 | 0 16 25 | 2°17'42 | 6♓13 | 4°22 | 16°33 | 17°17 | 29°13 | 12°18 | 26°41 | 15° 3 | 16° 7 | 8°58 | 8°18 | 2°22 | n.a. | T 28 |
| W29 | 0 20 22 | 3°17'45 | 20° 2 | 3° 5 | 17°38 | 17°54 | 29°24 | 12°24 | 26°38 | 15° 2 | 16° 6 | 8°47 | 8°15 | 2°29 | n.a. | W29 |
| T 30 | 0 24 18 | 4♎17'49 | 3♈38 | 1♎49 | 18♌43 | 18♌31 | 29♌36 | 12♌30 | 26♓36 | 15♉ 1 | 16♉ 5 | 8♋35 | 8♋12 | 2♋35 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| W 1 | 9n36 | 11s28 | 4s25 | 2s17 | 2s12 | 19n20 | 2s55 | 21n24 | 1n12 | 14n48 | 1n 4 | 19n16 | 1n13 | 1s35 | 0s45 | 14n54 | 1s48 | 6n40 | 10s41 | 23n13 | 23n21 | 22n47 | | n.a. | W 1 |
| T 2 | 9 14 | 6 23 | 4 54 | 2 51 | 2 19 | 19 20 | 2 48 | 21 17 | 1 12 | 14 44 | 1 4 | 19 14 | 1 13 | 1 36 | 0 45 | 14 54 | 1 48 | 6 40 | 10 41 | 23 14 | 23 21 | 22 48 | | n.a. | T 2 |
| F 3 | 8 52 | 1 8 | 5 5 | 3 23 | 2 26 | 19 18 | 2 41 | 21 9 | 1 13 | 14 40 | 1 4 | 19 13 | 1 13 | 1 37 | 0 45 | 14 54 | 1 48 | 6 39 | 10 42 | 23 14 | 23 21 | 22 48 | | n.a. | F 3 |
| S 4 | 8 30 | 4n 2 | 5 0 | 3 55 | 2 33 | 19 16 | 2 35 | 21 0 | 1 13 | 14 36 | 1 4 | 19 11 | 1 13 | 1 38 | 0 45 | 14 54 | 1 48 | 6 39 | 10 42 | 23 15 | 23 21 | 22 49 | | n.a. | S 4 |
| S 5 | 8 7 | 8 53 | 4 39 | 4 25 | 2 39 | 19 14 | 2 28 | 20 52 | 1 14 | 14 31 | 1 4 | 19 9 | 1 13 | 1 39 | 0 45 | 14 54 | 1 48 | 6 39 | 10 42 | 23 16 | 23 22 | 22 50 | | n.a. | S 5 |
| M 6 | 7 45 | 13 15 | 4 6 | 4 54 | 2 46 | 19 11 | 2 21 | 20 44 | 1 14 | 14 27 | 1 4 | 19 7 | 1 14 | 1 40 | 0 45 | 14 54 | 1 48 | 6 39 | 10 42 | 23 16 | 23 22 | 22 51 | | n.a. | M 6 |
| T 7 | 7 22 | 16 58 | 3 22 | 5 21 | 2 52 | 19 8 | 2 14 | 20 35 | 1 14 | 14 23 | 1 4 | 19 6 | 1 14 | 1 41 | 0 45 | 14 53 | 1 49 | 6 38 | 10 42 | 23 16 | 23 22 | 22 52 | | n.a. | T 7 |
| W 8 | 6 59 | 19 55 | 2 30 | 5 47 | 2 57 | 19 4 | 2 8 | 20 26 | 1 15 | 14 19 | 1 4 | 19 4 | 1 14 | 1 42 | 0 45 | 14 53 | 1 49 | 6 38 | 10 43 | 23 16 | 23 22 | 22 53 | | n.a. | W 8 |
| T 9 | 6 36 | 22 0 | 1 32 | 6 11 | 3 2 | 18 59 | 2 1 | 20 18 | 1 15 | 14 14 | 1 4 | 19 2 | 1 14 | 1 43 | 0 45 | 14 53 | 1 49 | 6 38 | 10 43 | 23 16 | 23 22 | 22 54 | | n.a. | T 9 |
| F 10 | 6 13 | 23 6 | 0 30 | 6 33 | 3 7 | 18 55 | 1 55 | 20 9 | 1 16 | 14 10 | 1 5 | 19 0 | 1 14 | 1 44 | 0 45 | 14 53 | 1 49 | 6 37 | 10 43 | 23 16 | 23 23 | 22 55 | | n.a. | F 10 |
| S 11 | 5 50 | 23 11 | 0n33 | 6 53 | 3 11 | 18 49 | 1 48 | 20 0 | 1 16 | 14 6 | 1 5 | 18 59 | 1 14 | 1 44 | 0 45 | 14 53 | 1 49 | 6 37 | 10 43 | 23 16 | 23 23 | 22 55 | | n.a. | S 11 |
| S 12 | 5 27 | 22 11 | 1 36 | 7 10 | 3 15 | 18 43 | 1 42 | 19 50 | 1 16 | 14 2 | 1 5 | 18 57 | 1 14 | 1 45 | 0 45 | 14 52 | 1 49 | 6 37 | 10 43 | 23 17 | 23 23 | 22 56 | | n.a. | S 12 |
| M13 | 5 3 | 20 7 | 2 35 | 7 25 | 3 18 | 18 37 | 1 35 | 19 41 | 1 17 | 13 58 | 1 5 | 18 55 | 1 15 | 1 46 | 0 45 | 14 52 | 1 49 | 6 37 | 10 43 | 23 17 | 23 23 | 22 57 | | n.a. | M13 |
| T 14 | 4 40 | 17 5 | 3 27 | 7 37 | 3 20 | 18 30 | 1 29 | 19 32 | 1 17 | 13 53 | 1 5 | 18 54 | 1 15 | 1 47 | 0 45 | 14 52 | 1 49 | 6 36 | 10 44 | 23 17 | 23 24 | 22 58 | | n.a. | T 14 |
| W15 | 4 16 | 13 12 | 4 11 | 7 46 | 3 21 | 18 22 | 1 23 | 19 22 | 1 18 | 13 49 | 1 5 | 18 52 | 1 15 | 1 48 | 0 45 | 14 51 | 1 49 | 6 36 | 10 44 | 23 18 | 23 24 | 22 59 | | n.a. | W15 |
| T 16 | 3 52 | 8 36 | 4 42 | 7 52 | 3 22 | 18 14 | 1 16 | 19 12 | 1 18 | 13 45 | 1 5 | 18 50 | 1 15 | 1 49 | 0 45 | 14 51 | 1 49 | 6 36 | 10 44 | 23 19 | 23 24 | 23 0 | | n.a. | T 16 |
| F 17 | 3 29 | 3 31 | 4 59 | 7 53 | 3 21 | 18 5 | 1 10 | 19 3 | 1 18 | 13 41 | 1 5 | 18 49 | 1 15 | 1 50 | 0 45 | 14 51 | 1 49 | 6 35 | 10 44 | 23 20 | 23 24 | 23 0 | | n.a. | F 17 |
| S 18 | 3 5 | 1s49 | 5 0 | 7 51 | 3 19 | 17 56 | 1 4 | 18 53 | 1 19 | 13 36 | 1 5 | 18 47 | 1 15 | 1 51 | 0 45 | 14 51 | 1 49 | 6 35 | 10 44 | 23 21 | 23 24 | 23 1 | | n.a. | S 18 |
| S 19 | 2 41 | 7 9 | 4 43 | 7 44 | 3 15 | 17 46 | 0 58 | 18 43 | 1 19 | 13 32 | 1 6 | 18 46 | 1 16 | 1 52 | 0 45 | 14 50 | 1 49 | 6 35 | 10 44 | 23 22 | 23 25 | 23 2 | | n.a. | S 19 |
| M20 | 2 17 | 12 11 | 4 10 | 7 33 | 3 11 | 17 36 | 0 52 | 18 33 | 1 20 | 13 28 | 1 6 | 18 44 | 1 16 | 1 53 | 0 45 | 14 50 | 1 49 | 6 34 | 10 44 | 23 22 | 23 25 | 23 3 | | n.a. | M20 |
| T 21 | 1 53 | 16 37 | 3 21 | 7 16 | 3 4 | 17 25 | 0 47 | 18 23 | 1 20 | 13 24 | 1 6 | 18 42 | 1 16 | 1 54 | 0 45 | 14 50 | 1 49 | 6 34 | 10 45 | 23 23 | 23 25 | 23 4 | | n.a. | T 21 |
| W22 | 1 29 | 20 9 | 2 20 | 6 55 | 2 56 | 17 14 | 0 41 | 18 12 | 1 20 | 13 20 | 1 6 | 18 41 | 1 16 | 1 55 | 0 45 | 14 49 | 1 49 | 6 34 | 10 45 | 23 23 | 23 25 | 23 4 | | n.a. | W22 |
| T 23 | 1 5 | 22 28 | 1 10 | 6 28 | 2 46 | 17 2 | 0 35 | 18 2 | 1 21 | 13 16 | 1 6 | 18 39 | 1 16 | 1 56 | 0 45 | 14 49 | 1 49 | 6 33 | 10 45 | 23 23 | 23 25 | 23 5 | | n.a. | T 23 |
| F 24 | 0 41 | 23 23 | 0s 4 | 5 56 | 2 34 | 16 50 | 0 30 | 17 51 | 1 21 | 13 11 | 1 6 | 18 38 | 1 16 | 1 57 | 0 45 | 14 49 | 1 49 | 6 33 | 10 45 | 23 23 | 23 26 | 23 6 | | n.a. | F 24 |
| S 25 | 0 17 | 22 48 | 1 18 | 5 20 | 2 20 | 16 37 | 0 24 | 17 41 | 1 22 | 13 7 | 1 6 | 18 36 | 1 17 | 1 58 | 0 45 | 14 48 | 1 49 | 6 33 | 10 45 | 23 23 | 23 26 | 23 7 | | n.a. | S 25 |
| S 26 | 0s 7 | 20 47 | 2 27 | 4 39 | 2 4 | 16 24 | 0 19 | 17 30 | 1 22 | 13 3 | 1 6 | 18 35 | 1 17 | 1 59 | 0 45 | 14 48 | 1 49 | 6 32 | 10 45 | 23 23 | 23 26 | 23 8 | | n.a. | S 26 |
| M27 | 0 31 | 17 30 | 3 26 | 3 54 | 1 47 | 16 10 | 0 13 | 17 19 | 1 22 | 12 59 | 1 7 | 18 33 | 1 17 | 2 0 | 0 45 | 14 48 | 1 49 | 6 32 | 10 45 | 23 23 | 23 26 | 23 8 | | n.a. | M27 |
| T 28 | 0 55 | 13 14 | 4 13 | 3 6 | 1 28 | 15 55 | 0 8 | 17 8 | 1 23 | 12 55 | 1 7 | 18 32 | 1 17 | 2 1 | 0 45 | 14 47 | 1 49 | 6 32 | 10 46 | 23 24 | 23 27 | 23 9 | | n.a. | T 28 |
| W29 | 1 19 | 8 20 | 4 45 | 2 17 | 1 9 | 15 40 | 0 3 | 16 57 | 1 23 | 12 51 | 1 7 | 18 30 | 1 17 | 2 2 | 0 45 | 14 47 | 1 49 | 6 31 | 10 46 | 23 25 | 23 27 | 23 10 | | n.a. | W29 |
| T 30 | 1s44 | 3s 6 | 4s59 | 1s28 | 0s48 | 15n25 | 0n 2 | 16n46 | 1n24 | 12n47 | 1n 7 | 18n29 | 1n17 | 2s 3 | 0s45 | 14n46 | 1s50 | 6n31 | 10s46 | 23n25 | 23n27 | 23n11 | | n.a. | T 30 |

Julian Day Number = 1690620.5, Delta T = 03h10m41s
Ecliptic obliquity = 23°42'18, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°13'44, Lahiri = - 5°06'44 Julian Calendar 1 Sept. 85 BCE == Greg. Calendar 30 Aug. 085 BCE

The year -84 astronomical counting style corresponds to year 085 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 85 BCE
# geocentric

## OCTOBER 85 BCE (-84) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 0 28 15 | 5♎17'55 | 16♈58 | 0°R37 | 19♌49 | 19♌ 7 | 29♌48 | 12♌35 | 26°R33 | 14°R59 | 16°R 4 | 8°R22 | 8♋ 8 | 2♋42 | n.a. | F 1 |
| S 2 | 0 32 11 | 6°18'04 | 29°59 | 29♍30 | 20°55 | 19°44 | 29°59 | 12°41 | 26♓31 | 14♉58 | 16♉ 3 | 8♋ 9 | 8° 5 | 2°49 | n.a. | S 2 |
| S 3 | 0 36 8 | 7°18'14 | 12♉42 | 28°31 | 22° 1 | 20°20 | 0♍11 | 12°46 | 26°28 | 14°57 | 16° 3 | 7°58 | 8° 2 | 2°55 | n.a. | S 3 |
| M 4 | 0 40 5 | 8°18'26 | 25° 6 | 27°41 | 23° 7 | 20°57 | 0°23 | 12°51 | 26°26 | 14°56 | 16° 2 | 7°50 | 7°59 | 3° 2 | n.a. | M 4 |
| T 5 | 0 44 1 | 9°18'41 | 7♊15 | 27° 2 | 24°14 | 21°33 | 0°34 | 12°57 | 26°24 | 14°54 | 16° 1 | 7°45 | 7°56 | 3° 9 | n.a. | T 5 |
| W 6 | 0 47 58 | 10°18'58 | 19°12 | 26°34 | 25°20 | 22°10 | 0°46 | 13° 2 | 26°21 | 14°53 | 16° 0 | 7°42 | 7°52 | 3°15 | n.a. | W 6 |
| T 7 | 0 51 54 | 11°19'17 | 1♋ 1 | 26°17 | 26°27 | 22°46 | 0°57 | 13° 7 | 26°19 | 14°52 | 15°59 | 7°41 | 7°49 | 3°22 | n.a. | T 7 |
| F 8 | 0 55 51 | 12°19'37 | 12°48 | 26°D13 | 27°35 | 23°23 | 1° 9 | 13°12 | 26°17 | 14°50 | 15°58 | 7°41 | 7°46 | 3°29 | n.a. | F 8 |
| S 9 | 0 59 47 | 13°20'00 | 24°40 | 26°19 | 28°42 | 23°59 | 1°20 | 13°17 | 26°14 | 14°49 | 15°57 | 7°41 | 7°43 | 3°35 | n.a. | S 9 |
| S 10 | 1 3 44 | 14°20'25 | 6♌40 | 26°37 | 29°50 | 24°35 | 1°31 | 13°22 | 26°12 | 14°48 | 15°56 | 7°39 | 7°40 | 3°42 | n.a. | S 10 |
| M11 | 1 7 40 | 15°20'52 | 18°54 | 27° 4 | 0♍58 | 25°11 | 1°42 | 13°27 | 26°10 | 14°46 | 15°55 | 7°35 | 7°37 | 3°49 | n.a. | M11 |
| T 12 | 1 11 37 | 16°21'21 | 1♍28 | 27°40 | 2° 6 | 25°48 | 1°53 | 13°32 | 26° 7 | 14°45 | 15°54 | 7°28 | 7°33 | 3°55 | n.a. | T 12 |
| W13 | 1 15 34 | 17°21'52 | 14°22 | 28°24 | 3°15 | 26°24 | 2° 4 | 13°36 | 26° 5 | 14°43 | 15°53 | 7°19 | 7°30 | 4° 2 | n.a. | W13 |
| T 14 | 1 19 30 | 18°22'25 | 27°40 | 29°15 | 4°23 | 27° 0 | 2°15 | 13°41 | 26° 3 | 14°42 | 15°52 | 7° 7 | 7°27 | 4° 8 | n.a. | T 14 |
| F 15 | 1 23 27 | 19°22'59 | 11♎19 | 0♎13 | 5°32 | 27°36 | 2°26 | 13°45 | 26° 1 | 14°40 | 15°51 | 6°55 | 7°24 | 4°15 | n.a. | F 15 |
| S 16 | 1 27 23 | 20°23'35 | 25°17 | 1°16 | 6°41 | 28°12 | 2°36 | 13°50 | 25°59 | 14°39 | 15°50 | 6°42 | 7°21 | 4°22 | n.a. | S 16 |
| S 17 | 1 31 20 | 21°24'13 | 9♏29 | 2°24 | 7°50 | 28°48 | 2°47 | 13°54 | 25°56 | 14°37 | 15°49 | 6°32 | 7°18 | 4°28 | n.a. | S 17 |
| M18 | 1 35 16 | 22°24'52 | 23°50 | 3°36 | 8°59 | 29°24 | 2°57 | 13°58 | 25°54 | 14°36 | 15°48 | 6°23 | 7°14 | 4°35 | n.a. | M18 |
| T 19 | 1 39 13 | 23°25'33 | 8♐13 | 4°52 | 10° 9 | 0♍ 0 | 3° 8 | 14° 3 | 25°52 | 14°34 | 15°47 | 6°18 | 7°11 | 4°42 | n.a. | T 19 |
| W20 | 1 43 9 | 24°26'15 | 22°34 | 6°11 | 11°18 | 0°36 | 3°18 | 14° 7 | 25°50 | 14°33 | 15°46 | 6°15 | 7° 8 | 4°48 | n.a. | W20 |
| T 21 | 1 47 6 | 25°26'58 | 6♑50 | 7°32 | 12°28 | 1°12 | 3°28 | 14°11 | 25°48 | 14°31 | 15°45 | 6°D14 | 7° 5 | 4°55 | n.a. | T 21 |
| F 22 | 1 51 3 | 26°27'43 | 20°58 | 8°56 | 13°38 | 1°48 | 3°38 | 14°14 | 25°46 | 14°29 | 15°44 | 6°R14 | 7° 2 | 5° 2 | n.a. | F 22 |
| S 23 | 1 54 59 | 27°28'29 | 4♒58 | 10°21 | 14°48 | 2°24 | 3°48 | 14°18 | 25°44 | 14°28 | 15°43 | 6°14 | 6°58 | 5° 8 | n.a. | S 23 |
| S 24 | 1 58 56 | 28°29'15 | 18°50 | 11°48 | 15°59 | 3° 0 | 3°58 | 14°22 | 25°42 | 14°26 | 15°42 | 6°13 | 6°55 | 5°15 | n.a. | S 24 |
| M25 | 2 2 52 | 29°30'03 | 2♓32 | 13°16 | 17° 9 | 3°35 | 4° 8 | 14°26 | 25°40 | 14°25 | 15°41 | 6° 8 | 6°52 | 5°22 | n.a. | M25 |
| T 26 | 2 6 49 | 0♏30'52 | 16° 5 | 14°45 | 18°19 | 4°11 | 4°18 | 14°29 | 25°38 | 14°23 | 15°39 | 6° 1 | 6°49 | 5°28 | n.a. | T 26 |
| W27 | 2 10 45 | 1°31'42 | 29°28 | 16°15 | 19°30 | 4°47 | 4°28 | 14°33 | 25°36 | 14°21 | 15°38 | 5°52 | 6°46 | 5°35 | n.a. | W27 |
| T 28 | 2 14 42 | 2°32'33 | 12♈39 | 17°46 | 20°41 | 5°22 | 4°37 | 14°36 | 25°35 | 14°20 | 15°37 | 5°41 | 6°43 | 5°41 | n.a. | T 28 |
| F 29 | 2 18 38 | 3°33'25 | 25°37 | 19°18 | 21°52 | 5°58 | 4°47 | 14°39 | 25°33 | 14°18 | 15°36 | 5°29 | 6°39 | 5°48 | n.a. | F 29 |
| S 30 | 2 22 35 | 4°34'18 | 8♉22 | 20°49 | 23° 3 | 6°33 | 4°56 | 14°42 | 25°31 | 14°16 | 15°35 | 5°18 | 6°36 | 5°55 | n.a. | S 30 |
| S 31 | 2 26 31 | 5♏35'13 | 20♉52 | 22♎22 | 24♍14 | 7♍ 9 | 5♍ 5 | 14♌45 | 25♓29 | 14♉15 | 15♉34 | 5♋ 9 | 6♋33 | 6♋ 1 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 2s 8 | 2n10 | 4s57 | 0s40 | 0s27 | 15n 9 | 0n 7 | 16n35 | 1n24 | 12n43 | 1n 7 | 18n27 | 1n18 | 2s 4 | 0s45 | 14n46 | 1s50 | 6n31 | 10s46 | 23n26 | 23n27 | 23n11 | | n.a. |
| S 2 | 2 32 | 7 14 | 4 39 | 0n 6 | 0 7 | 14 52 | 0 12 | 16 24 | 1 24 | 12 39 | 1 7 | 18 26 | 1 18 | 2 5 | 0 45 | 14 46 | 1 50 | 6 30 | 10 46 | 23 27 | 23 27 | 23 12 | | n.a. |
| S 3 | 2 56 | 11 53 | 4 8 | 0 48 | 0n13 | 14 35 | 0 17 | 16 12 | 1 25 | 12 35 | 1 7 | 18 25 | 1 18 | 2 6 | 0 45 | 14 45 | 1 50 | 6 30 | 10 46 | 23 28 | 23 28 | 23 13 | | n.a. |
| M 4 | 3 20 | 15 56 | 3 25 | 1 25 | 0 32 | 14 18 | 0 21 | 16 1 | 1 25 | 12 31 | 1 8 | 18 23 | 1 18 | 2 7 | 0 45 | 14 45 | 1 50 | 6 30 | 10 46 | 23 28 | 23 28 | 23 14 | | n.a. |
| T 5 | 3 44 | 19 14 | 2 34 | 1 57 | 0 50 | 14 0 | 0 26 | 15 49 | 1 25 | 12 27 | 1 8 | 18 22 | 1 18 | 2 8 | 0 45 | 14 44 | 1 50 | 6 29 | 10 46 | 23 29 | 23 28 | 23 14 | | n.a. |
| W 6 | 4 8 | 21 40 | 1 36 | 2 23 | 1 6 | 13 42 | 0 30 | 15 38 | 1 26 | 12 23 | 1 8 | 18 21 | 1 18 | 2 9 | 0 45 | 14 44 | 1 50 | 6 29 | 10 46 | 23 29 | 23 28 | 23 15 | | n.a. |
| T 7 | 4 32 | 23 7 | 0 35 | 2 43 | 1 20 | 13 23 | 0 35 | 15 26 | 1 26 | 12 19 | 1 8 | 18 19 | 1 19 | 2 10 | 0 45 | 14 44 | 1 50 | 6 29 | 10 47 | 23 29 | 23 28 | 23 16 | | n.a. |
| F 8 | 4 55 | 23 32 | 0n27 | 2 56 | 1 33 | 13 3 | 0 39 | 15 14 | 1 27 | 12 15 | 1 8 | 18 18 | 1 19 | 2 11 | 0 45 | 14 43 | 1 50 | 6 28 | 10 47 | 23 29 | 23 28 | 23 16 | | n.a. |
| S 9 | 5 19 | 22 53 | 1 29 | 3 3 | 1 44 | 12 44 | 0 43 | 15 2 | 1 27 | 12 11 | 1 8 | 18 17 | 1 19 | 2 12 | 0 45 | 14 43 | 1 50 | 6 28 | 10 47 | 23 29 | 23 29 | 23 17 | | n.a. |
| S 10 | 5 43 | 21 11 | 2 27 | 3 5 | 1 53 | 12 23 | 0 47 | 14 51 | 1 27 | 12 7 | 1 9 | 18 15 | 1 19 | 2 12 | 0 45 | 14 42 | 1 50 | 6 28 | 10 47 | 23 29 | 23 29 | 23 18 | | n.a. |
| M11 | 6 6 | 18 29 | 3 20 | 3 1 | 2 0 | 12 3 | 0 51 | 14 39 | 1 28 | 12 3 | 1 9 | 18 14 | 1 19 | 2 13 | 0 45 | 14 42 | 1 50 | 6 27 | 10 47 | 23 29 | 23 29 | 23 18 | | n.a. |
| T 12 | 6 30 | 14 52 | 4 4 | 2 52 | 2 6 | 11 42 | 0 55 | 14 27 | 1 28 | 12 0 | 1 9 | 18 13 | 1 20 | 2 14 | 0 45 | 14 41 | 1 50 | 6 27 | 10 47 | 23 30 | 23 29 | 23 19 | | n.a. |
| W13 | 6 53 | 10 29 | 4 38 | 2 38 | 2 11 | 11 20 | 0 59 | 14 14 | 1 29 | 11 56 | 1 9 | 18 12 | 1 20 | 2 15 | 0 45 | 14 41 | 1 50 | 6 27 | 10 47 | 23 30 | 23 29 | 23 20 | | n.a. |
| T 14 | 7 17 | 5 28 | 4 57 | 2 21 | 2 14 | 10 59 | 1 3 | 14 2 | 1 29 | 11 52 | 1 9 | 18 11 | 1 20 | 2 16 | 0 45 | 14 41 | 1 50 | 6 26 | 10 47 | 23 31 | 23 30 | 23 21 | | n.a. |
| F 15 | 7 40 | 0 4 | 5 0 | 1 59 | 2 16 | 10 36 | 1 6 | 13 50 | 1 29 | 11 48 | 1 9 | 18 10 | 1 20 | 2 17 | 0 45 | 14 40 | 1 50 | 6 26 | 10 47 | 23 31 | 23 30 | 23 21 | | n.a. |
| S 16 | 8 3 | 5s27 | 4 46 | 1 35 | 2 17 | 10 14 | 1 10 | 13 38 | 1 30 | 11 44 | 1 10 | 18 9 | 1 20 | 2 18 | 0 45 | 14 40 | 1 50 | 6 26 | 10 47 | 23 32 | 23 30 | 23 22 | | n.a. |
| S 17 | 8 26 | 10 49 | 4 13 | 1 7 | 2 16 | 9 51 | 1 13 | 13 25 | 1 30 | 11 41 | 1 10 | 18 7 | 1 21 | 2 19 | 0 44 | 14 39 | 1 50 | 6 25 | 10 47 | 23 33 | 23 30 | 23 22 | | n.a. |
| M18 | 8 49 | 15 38 | 3 25 | 0 37 | 2 15 | 9 28 | 1 16 | 13 13 | 1 30 | 11 37 | 1 10 | 18 6 | 1 21 | 2 19 | 0 44 | 14 39 | 1 50 | 6 25 | 10 47 | 23 33 | 23 30 | 23 23 | | n.a. |
| T 19 | 9 12 | 19 34 | 2 23 | 0 5 | 2 14 | 9 4 | 1 19 | 13 1 | 1 31 | 11 33 | 1 10 | 18 5 | 1 21 | 2 20 | 0 44 | 14 38 | 1 50 | 6 25 | 10 47 | 23 33 | 23 30 | 23 24 | | n.a. |
| W20 | 9 34 | 22 18 | 1 12 | 0s29 | 2 11 | 8 40 | 1 22 | 12 48 | 1 31 | 11 30 | 1 10 | 18 4 | 1 21 | 2 21 | 0 44 | 14 38 | 1 50 | 6 24 | 10 47 | 23 33 | 23 31 | 23 24 | | n.a. |
| T 21 | 9 57 | 23 35 | 0s 3 | 1 4 | 2 8 | 8 16 | 1 25 | 12 35 | 1 32 | 11 26 | 1 11 | 18 3 | 1 21 | 2 22 | 0 44 | 14 37 | 1 50 | 6 24 | 10 48 | 23 33 | 23 31 | 23 25 | | n.a. |
| F 22 | 10 19 | 23 20 | 1 18 | 1 41 | 2 4 | 7 51 | 1 28 | 12 23 | 1 32 | 11 23 | 1 11 | 18 2 | 1 22 | 2 23 | 0 44 | 14 37 | 1 50 | 6 24 | 10 48 | 23 33 | 23 31 | 23 26 | | n.a. |
| S 23 | 10 41 | 21 36 | 2 27 | 2 18 | 2 0 | 7 26 | 1 31 | 12 10 | 1 32 | 11 19 | 1 11 | 18 2 | 1 22 | 2 23 | 0 44 | 14 36 | 1 50 | 6 23 | 10 48 | 23 33 | 23 31 | 23 26 | | n.a. |
| S 24 | 11 3 | 18 36 | 3 26 | 2 57 | 1 55 | 7 1 | 1 33 | 11 57 | 1 33 | 11 16 | 1 11 | 18 1 | 1 22 | 2 24 | 0 44 | 14 36 | 1 50 | 6 23 | 10 48 | 23 33 | 23 31 | 23 27 | | n.a. |
| M25 | 11 25 | 14 37 | 4 13 | 3 36 | 1 50 | 6 36 | 1 36 | 11 45 | 1 33 | 11 12 | 1 11 | 18 0 | 1 22 | 2 25 | 0 44 | 14 35 | 1 50 | 6 22 | 10 48 | 23 34 | 23 31 | 23 28 | | n.a. |
| T 26 | 11 47 | 9 55 | 4 45 | 4 16 | 1 45 | 6 10 | 1 38 | 11 32 | 1 33 | 11 9 | 1 12 | 17 59 | 1 23 | 2 26 | 0 44 | 14 35 | 1 50 | 6 22 | 10 48 | 23 34 | 23 32 | 23 28 | | n.a. |
| W27 | 12 8 | 4 49 | 5 1 | 4 56 | 1 39 | 5 44 | 1 40 | 11 19 | 1 34 | 11 6 | 1 12 | 17 58 | 1 23 | 2 26 | 0 44 | 14 34 | 1 50 | 6 22 | 10 48 | 23 34 | 23 32 | 23 29 | | n.a. |
| T 28 | 12 29 | 0n26 | 5 1 | 5 37 | 1 33 | 5 18 | 1 43 | 11 6 | 1 34 | 11 2 | 1 12 | 17 57 | 1 23 | 2 27 | 0 44 | 14 34 | 1 50 | 6 22 | 10 48 | 23 35 | 23 32 | 23 29 | | n.a. |
| F 29 | 12 50 | 5 35 | 4 45 | 6 17 | 1 27 | 4 52 | 1 45 | 10 53 | 1 35 | 10 59 | 1 12 | 17 57 | 1 23 | 2 28 | 0 44 | 14 33 | 1 50 | 6 21 | 10 48 | 23 35 | 23 32 | 23 30 | | n.a. |
| S 30 | 13 11 | 10 26 | 4 15 | 6 58 | 1 21 | 4 25 | 1 47 | 10 40 | 1 35 | 10 56 | 1 12 | 17 56 | 1 23 | 2 28 | 0 44 | 14 33 | 1 50 | 6 21 | 10 48 | 23 36 | 23 32 | 23 31 | | n.a. |
| S 31 | 13s32 | 14n45 | 3s33 | 7s39 | 1n15 | 3n58 | 1n48 | 10n27 | 1n35 | 10n52 | 1n13 | 17n55 | 1n24 | 2s29 | 0s44 | 14n32 | 1s50 | 6n21 | 10s48 | 23n36 | 23n32 | 23n31 | | n.a. |

Julian Day Number = 1690650.5, Delta T = 03h10m40s
Ecliptic obliquity = 23°42'18, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°13'40, Lahiri = - 5°06'40 Julian Calendar 1 Oct. 85 BCE == Greg. Calendar 29 Sept. 085 BCE

The year -84 astronomical counting style corresponds to year 085 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 85 BCE
# geocentric

## NOVEMBER 85 BCE (-84) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 2 30 28 | 6♏36'09 | 3♊ 8 | 23♎54 | 25♍25 | 7♍44 | 5♍14 | 14♌48 | 25°R28 | 14°R13 | 15°R33 | 5°R 1 | 6♋30 | 6♋ 8 | n.a. | M 1 |
| T 2 | 2 34 25 | 7°37'06 | 15°12 | 25°27 | 26°37 | 8°20 | 5°23 | 14°51 | 25♓26 | 14♉11 | 15♉32 | 4♋57 | 6°27 | 6°15 | n.a. | T 2 |
| W 3 | 2 38 21 | 8°38'05 | 27° 6 | 27° 0 | 27°48 | 8°55 | 5°32 | 14°54 | 25°24 | 14°10 | 15°30 | 4°54 | 6°23 | 6°21 | n.a. | W 3 |
| T 4 | 2 42 18 | 9°39'05 | 8♋55 | 28°33 | 29° 0 | 9°30 | 5°41 | 14°57 | 25°23 | 14° 8 | 15°29 | 4°D54 | 6°20 | 6°28 | n.a. | T 4 |
| F 5 | 2 46 14 | 10°40'06 | 20°41 | 0♏ 6 | 0♎12 | 10° 6 | 5°50 | 14°59 | 25°21 | 14° 6 | 15°28 | 4°55 | 6°17 | 6°35 | n.a. | F 5 |
| S 6 | 2 50 11 | 11°41'08 | 2♌31 | 1°39 | 1°24 | 10°41 | 5°58 | 15° 1 | 25°20 | 14° 4 | 15°27 | 4°56 | 6°14 | 6°41 | n.a. | S 6 |
| S 7 | 2 54 7 | 12°42'12 | 14°30 | 3°13 | 2°36 | 11°16 | 6° 7 | 15° 4 | 25°18 | 14° 3 | 15°26 | 4°R56 | 6°11 | 6°48 | n.a. | S 7 |
| M 8 | 2 58 4 | 13°43'17 | 26°43 | 4°46 | 3°48 | 11°51 | 6°15 | 15° 6 | 25°17 | 14° 1 | 15°25 | 4°55 | 6° 8 | 6°55 | n.a. | M 8 |
| T 9 | 3 2 1 | 14°44'23 | 9♍14 | 6°19 | 5° 0 | 12°26 | 6°23 | 15° 8 | 25°16 | 13°59 | 15°23 | 4°52 | 6° 4 | 7° 1 | n.a. | T 9 |
| W10 | 3 5 57 | 15°45'30 | 22°10 | 7°53 | 6°12 | 13° 1 | 6°31 | 15°10 | 25°14 | 13°58 | 15°22 | 4°47 | 6° 1 | 7° 8 | n.a. | W10 |
| T 11 | 3 9 54 | 16°46'38 | 5♎31 | 9°27 | 7°25 | 13°36 | 6°39 | 15°12 | 25°13 | 13°56 | 15°21 | 4°40 | 5°58 | 7°15 | n.a. | T 11 |
| F 12 | 3 13 50 | 17°47'47 | 19°18 | 11° 0 | 8°37 | 14°11 | 6°47 | 15°14 | 25°12 | 13°54 | 15°20 | 4°32 | 5°55 | 7°21 | n.a. | F 12 |
| S 13 | 3 17 47 | 18°48'57 | 3♏31 | 12°34 | 9°50 | 14°46 | 6°54 | 15°16 | 25°11 | 13°53 | 15°19 | 4°24 | 5°52 | 7°28 | n.a. | S 13 |
| S 14 | 3 21 43 | 19°50'08 | 18° 2 | 14° 8 | 11° 2 | 15°21 | 7° 2 | 15°17 | 25° 9 | 13°51 | 15°18 | 4°17 | 5°49 | 7°34 | n.a. | S 14 |
| M15 | 3 25 40 | 20°51'19 | 2♐47 | 15°42 | 12°15 | 15°55 | 7° 9 | 15°19 | 25° 8 | 13°49 | 15°17 | 4°12 | 5°45 | 7°41 | n.a. | M15 |
| T 16 | 3 29 36 | 21°52'31 | 17°38 | 17°16 | 13°28 | 16°30 | 7°17 | 15°20 | 25° 7 | 13°47 | 15°15 | 4° 8 | 5°42 | 7°48 | n.a. | T 16 |
| W17 | 3 33 33 | 22°53'44 | 2♑25 | 18°50 | 14°41 | 17° 5 | 7°24 | 15°21 | 25° 6 | 13°46 | 15°14 | 4°D 7 | 5°39 | 7°54 | n.a. | W17 |
| T 18 | 3 37 30 | 23°54'57 | 17° 4 | 20°24 | 15°53 | 17°39 | 7°31 | 15°23 | 25° 5 | 13°44 | 15°13 | 4° 8 | 5°36 | 8° 1 | n.a. | T 18 |
| F 19 | 3 41 26 | 24°56'10 | 1♒28 | 21°58 | 17° 6 | 18°13 | 7°37 | 15°24 | 25° 4 | 13°42 | 15°12 | 4° 9 | 5°33 | 8° 8 | n.a. | F 19 |
| S 20 | 3 45 23 | 25°57'24 | 15°37 | 23°33 | 18°19 | 18°48 | 7°44 | 15°25 | 25° 4 | 13°41 | 15°11 | 4°11 | 5°29 | 8°14 | n.a. | S 20 |
| S 21 | 3 49 19 | 26°58'37 | 29°28 | 25° 7 | 19°33 | 19°22 | 7°51 | 15°25 | 25° 3 | 13°39 | 15°10 | 4°R11 | 5°26 | 8°21 | n.a. | S 21 |
| M22 | 3 53 16 | 27°59'50 | 13♓ 2 | 26°42 | 20°46 | 19°56 | 7°57 | 15°26 | 25° 2 | 13°37 | 15° 9 | 4°10 | 5°23 | 8°28 | n.a. | M22 |
| T 23 | 3 57 12 | 29° 1'04 | 26°20 | 28°17 | 21°59 | 20°31 | 8° 3 | 15°27 | 25° 1 | 13°36 | 15° 7 | 4° 7 | 5°20 | 8°34 | n.a. | T 23 |
| W24 | 4 1 9 | 0♐ 2'18 | 9♈23 | 29°53 | 23°12 | 21° 5 | 8° 9 | 15°27 | 25° 1 | 13°34 | 15° 6 | 4° 3 | 5°17 | 8°41 | n.a. | W24 |
| T 25 | 4 5 5 | 1° 3'31 | 22°13 | 1♐28 | 24°25 | 21°39 | 8°15 | 15°28 | 25° 0 | 13°33 | 15° 5 | 3°57 | 5°14 | 8°48 | n.a. | T 25 |
| F 26 | 4 9 2 | 2° 4'45 | 4♉50 | 3° 4 | 25°39 | 22°13 | 8°21 | 15°28 | 24°59 | 13°31 | 15° 4 | 3°51 | 5°10 | 8°54 | n.a. | F 26 |
| S 27 | 4 12 59 | 3° 5'59 | 17°15 | 4°40 | 26°52 | 22°47 | 8°26 | 15°28 | 24°59 | 13°29 | 15° 3 | 3°46 | 5° 7 | 9° 1 | n.a. | S 27 |
| S 28 | 4 16 55 | 4° 7'13 | 29°30 | 6°16 | 28° 6 | 23°20 | 8°32 | 15°R28 | 24°58 | 13°28 | 15° 2 | 3°41 | 5° 4 | 9° 8 | n.a. | S 28 |
| M29 | 4 20 52 | 5° 8'27 | 11♊35 | 7°52 | 29°19 | 23°54 | 8°37 | 15°28 | 24°58 | 13°26 | 15° 1 | 3°37 | 5° 1 | 9°14 | n.a. | M29 |
| T 30 | 4 24 48 | 6♐ 9'41 | 23♊31 | 9♐29 | 0♏33 | 24♍28 | 8♍42 | 15♌28 | 24♓58 | 13♉25 | 15♉ 0 | 3♋35 | 4♋58 | 9♋21 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 13 s52 | 18n22 | 2 s42 | 8 s19 | 1n 8 | 3n31 | 1n50 | 10n14 | 1n36 | 10n49 | 1n13 | 17n55 | 1n24 | 2 s30 | 0 s44 | 14n32 | 1 s50 | 6n20 | 10 s48 | 23n37 | 23n33 | 23n32 | | n.a. |
| T 2 | 14 12 | 21 9 | 1 44 | 9 0 | 1 2 | 3 4 | 1 52 | 10 1 | 1 36 | 10 46 | 1 13 | 17 54 | 1 24 | 2 30 | 0 44 | 14 31 | 1 50 | 6 20 | 10 48 | 23 37 | 23 33 | 23 32 | | n.a. |
| W 3 | 14 32 | 22 59 | 0 42 | 9 40 | 0 55 | 2 37 | 1 53 | 9 48 | 1 36 | 10 43 | 1 13 | 17 53 | 1 24 | 2 31 | 0 44 | 14 31 | 1 50 | 6 20 | 10 48 | 23 37 | 23 33 | 23 33 | | n.a. |
| T 4 | 14 52 | 23 46 | 0n22 | 10 20 | 0 48 | 2 9 | 1 55 | 9 35 | 1 37 | 10 40 | 1 13 | 17 53 | 1 25 | 2 32 | 0 44 | 14 30 | 1 50 | 6 19 | 10 48 | 23 37 | 23 33 | 23 33 | | n.a. |
| F 5 | 15 11 | 23 29 | 1 24 | 10 59 | 0 41 | 1 41 | 1 56 | 9 22 | 1 37 | 10 37 | 1 14 | 17 52 | 1 25 | 2 32 | 0 44 | 14 30 | 1 50 | 6 19 | 10 48 | 23 37 | 23 33 | 23 34 | | n.a. |
| S 6 | 15 30 | 22 8 | 2 23 | 11 39 | 0 34 | 1 14 | 1 57 | 9 9 | 1 38 | 10 34 | 1 14 | 17 52 | 1 25 | 2 33 | 0 44 | 14 29 | 1 50 | 6 19 | 10 48 | 23 37 | 23 33 | 23 34 | | n.a. |
| S 7 | 15 49 | 19 48 | 3 17 | 12 17 | 0 28 | 0 46 | 1 58 | 8 55 | 1 38 | 10 31 | 1 14 | 17 51 | 1 25 | 2 33 | 0 44 | 14 29 | 1 50 | 6 18 | 10 48 | 23 37 | 23 34 | 23 35 | | n.a. |
| M 8 | 16 8 | 16 32 | 4 3 | 12 56 | 0 21 | 0 18 | 1 59 | 8 42 | 1 38 | 10 28 | 1 14 | 17 51 | 1 26 | 2 34 | 0 44 | 14 28 | 1 50 | 6 18 | 10 48 | 23 37 | 23 34 | 23 36 | | n.a. |
| T 9 | 16 26 | 12 29 | 4 38 | 13 34 | 0 14 | 0 s10 | 2 0 | 8 29 | 1 39 | 10 25 | 1 15 | 17 50 | 1 26 | 2 34 | 0 44 | 14 28 | 1 50 | 6 18 | 10 48 | 23 37 | 23 34 | 23 36 | | n.a. |
| W10 | 16 44 | 7 44 | 5 1 | 14 11 | 0 7 | 0 39 | 2 1 | 8 16 | 1 39 | 10 23 | 1 15 | 17 50 | 1 26 | 2 35 | 0 44 | 14 27 | 1 50 | 6 18 | 10 48 | 23 37 | 23 34 | 23 37 | | n.a. |
| T 11 | 17 2 | 2 30 | 5 8 | 14 48 | 0 0 | 1 7 | 2 2 | 8 3 | 1 39 | 10 20 | 1 15 | 17 50 | 1 26 | 2 35 | 0 44 | 14 27 | 1 50 | 6 17 | 10 48 | 23 37 | 23 34 | 23 37 | | n.a. |
| F 12 | 17 20 | 3 s 3 | 4 58 | 15 24 | 0 s 6 | 1 35 | 2 2 | 7 49 | 1 40 | 10 17 | 1 15 | 17 49 | 1 26 | 2 36 | 0 44 | 14 26 | 1 50 | 6 17 | 10 47 | 23 38 | 23 34 | 23 38 | | n.a. |
| S 13 | 17 37 | 8 36 | 4 30 | 15 59 | 0 13 | 2 3 | 2 3 | 7 36 | 1 40 | 10 14 | 1 16 | 17 49 | 1 27 | 2 36 | 0 44 | 14 26 | 1 50 | 6 17 | 10 47 | 23 38 | 23 34 | 23 38 | | n.a. |
| S 14 | 17 54 | 13 49 | 3 43 | 16 34 | 0 20 | 2 32 | 2 3 | 7 23 | 1 40 | 10 12 | 1 16 | 17 49 | 1 27 | 2 37 | 0 44 | 14 25 | 1 50 | 6 16 | 10 47 | 23 38 | 23 35 | 23 39 | | n.a. |
| M15 | 18 10 | 18 18 | 2 42 | 17 8 | 0 26 | 3 0 | 2 3 | 7 9 | 1 41 | 10 9 | 1 16 | 17 49 | 1 27 | 2 37 | 0 44 | 14 25 | 1 50 | 6 16 | 10 47 | 23 38 | 23 35 | 23 39 | | n.a. |
| T 16 | 18 26 | 21 39 | 1 28 | 17 41 | 0 32 | 3 29 | 2 3 | 6 56 | 1 41 | 10 7 | 1 16 | 17 48 | 1 27 | 2 38 | 0 44 | 14 24 | 1 50 | 6 16 | 10 47 | 23 38 | 23 35 | 23 40 | | n.a. |
| W17 | 18 42 | 23 32 | 0 9 | 18 14 | 0 39 | 3 57 | 2 4 | 6 43 | 1 42 | 10 4 | 1 17 | 17 48 | 1 28 | 2 38 | 0 44 | 14 24 | 1 50 | 6 16 | 10 47 | 23 38 | 23 35 | 23 40 | | n.a. |
| T 18 | 18 58 | 23 45 | 1 s10 | 18 46 | 0 45 | 4 25 | 2 4 | 6 30 | 1 42 | 10 2 | 1 17 | 17 48 | 1 28 | 2 38 | 0 44 | 14 23 | 1 50 | 6 15 | 10 47 | 23 38 | 23 35 | 23 41 | | n.a. |
| F 19 | 19 13 | 22 23 | 2 23 | 19 17 | 0 51 | 4 54 | 2 3 | 6 16 | 1 42 | 10 0 | 1 17 | 17 48 | 1 28 | 2 39 | 0 43 | 14 23 | 1 50 | 6 15 | 10 47 | 23 38 | 23 35 | 23 41 | | n.a. |
| S 20 | 19 28 | 19 37 | 3 27 | 19 47 | 0 57 | 5 22 | 2 3 | 6 3 | 1 43 | 9 57 | 1 17 | 17 48 | 1 28 | 2 39 | 0 43 | 14 22 | 1 50 | 6 15 | 10 47 | 23 38 | 23 35 | 23 42 | | n.a. |
| S 21 | 19 42 | 15 47 | 4 17 | 20 16 | 1 2 | 5 50 | 2 3 | 5 50 | 1 43 | 9 55 | 1 18 | 17 48 | 1 29 | 2 39 | 0 43 | 14 22 | 1 50 | 6 15 | 10 47 | 23 38 | 23 36 | 23 42 | | n.a. |
| M22 | 19 56 | 11 12 | 4 51 | 20 44 | 1 8 | 6 18 | 2 3 | 5 36 | 1 43 | 9 53 | 1 18 | 17 48 | 1 29 | 2 39 | 0 43 | 14 21 | 1 50 | 6 14 | 10 47 | 23 38 | 23 36 | 23 42 | | n.a. |
| T 23 | 20 10 | 6 11 | 5 9 | 21 11 | 1 13 | 6 46 | 2 2 | 5 23 | 1 44 | 9 51 | 1 18 | 17 48 | 1 29 | 2 40 | 0 43 | 14 21 | 1 50 | 6 14 | 10 47 | 23 38 | 23 36 | 23 43 | | n.a. |
| W24 | 20 23 | 0 59 | 5 10 | 21 38 | 1 19 | 7 14 | 2 1 | 5 10 | 1 44 | 9 49 | 1 18 | 17 48 | 1 29 | 2 40 | 0 43 | 14 20 | 1 50 | 6 14 | 10 47 | 23 39 | 23 36 | 23 43 | | n.a. |
| T 25 | 20 36 | 4n10 | 4 56 | 22 3 | 1 24 | 7 42 | 2 1 | 4 57 | 1 44 | 9 47 | 1 19 | 17 48 | 1 30 | 2 40 | 0 43 | 14 20 | 1 50 | 6 14 | 10 46 | 23 39 | 23 36 | 23 44 | | n.a. |
| F 26 | 20 48 | 9 4 | 4 28 | 22 27 | 1 28 | 8 10 | 2 0 | 4 43 | 1 45 | 9 45 | 1 19 | 17 48 | 1 30 | 2 40 | 0 43 | 14 19 | 1 50 | 6 14 | 10 46 | 23 39 | 23 36 | 23 44 | | n.a. |
| S 27 | 21 1 | 13 32 | 3 47 | 22 50 | 1 33 | 8 37 | 1 59 | 4 30 | 1 45 | 9 43 | 1 19 | 17 48 | 1 30 | 2 40 | 0 43 | 14 19 | 1 50 | 6 13 | 10 46 | 23 39 | 23 36 | 23 45 | | n.a. |
| S 28 | 21 12 | 17 24 | 2 56 | 23 11 | 1 37 | 9 4 | 1 58 | 4 17 | 1 45 | 9 41 | 1 20 | 17 49 | 1 30 | 2 41 | 0 43 | 14 19 | 1 50 | 6 13 | 10 46 | 23 39 | 23 36 | 23 45 | | n.a. |
| M29 | 21 24 | 20 28 | 1 58 | 23 32 | 1 41 | 9 32 | 1 57 | 4 4 | 1 46 | 9 40 | 1 20 | 17 49 | 1 30 | 2 41 | 0 43 | 14 18 | 1 50 | 6 13 | 10 46 | 23 39 | 23 37 | 23 45 | | n.a. |
| T 30 | 21 s35 | 22n38 | 0 s55 | 23 s51 | 1 s45 | 9 s59 | 1n56 | 3n51 | 1n46 | 9n38 | 1n20 | 17n49 | 1n31 | 2 s41 | 0 s43 | 14n18 | 1 s50 | 6n13 | 10 s46 | 23n39 | 23n37 | 23n46 | | n.a. |

Julian Day Number = 1690681.5, Delta T = 03h10m39s
Ecliptic obliquity = 23°42'18, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°13'36, Lahiri = - 5°06'36 Julian Calendar 1 Nov. 85 BCE == Greg. Calendar 30 Oct. 085 BCE

The year -84 astronomical counting style corresponds to year 085 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 85 BCE
# geocentric

## DECEMBER 85 BCE (-84) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 4 28 45 | 7♐10'55 | 5♋22 | 11♐ 6 | 1♏46 | 25♍ 1 | 8♍47 | 15°R28 | 24°R57 | 13°R23 | 14°R59 | 3°D35 | 4♋55 | 9♋27 | n.a. | W 1 |
| T 2 | 4 32 41 | 8°12'10 | 17°10 | 12°43 | 3° 0 | 25°35 | 8°52 | 15♌27 | 24♓57 | 13♉22 | 14♉58 | 3♋36 | 4°51 | 9°34 | n.a. | T 2 |
| F 3 | 4 36 38 | 9°13'25 | 28°56 | 14°21 | 4°14 | 26° 8 | 8°57 | 15°27 | 24°57 | 13°20 | 14°57 | 3°37 | 4°48 | 9°41 | n.a. | F 3 |
| S 4 | 4 40 34 | 10°14'39 | 10♌47 | 15°59 | 5°27 | 26°42 | 9° 1 | 15°26 | 24°57 | 13°19 | 14°56 | 3°39 | 4°45 | 9°47 | n.a. | S 4 |
| S 5 | 4 44 31 | 11°15'54 | 22°45 | 17°37 | 6°41 | 27°15 | 9° 5 | 15°25 | 24°57 | 13°17 | 14°55 | 3°41 | 4°42 | 9°54 | n.a. | S 5 |
| M 6 | 4 48 28 | 12°17'09 | 4♍55 | 19°16 | 7°55 | 27°48 | 9° 9 | 15°25 | 24°D57 | 13°16 | 14°53 | 3°42 | 4°39 | 10° 1 | n.a. | M 6 |
| T 7 | 4 52 24 | 13°18'24 | 17°23 | 20°54 | 9° 9 | 28°21 | 9°13 | 15°24 | 24°57 | 13°14 | 14°52 | 3°R42 | 4°35 | 10° 7 | n.a. | T 7 |
| W 8 | 4 56 21 | 14°19'39 | 0♎12 | 22°33 | 10°23 | 28°54 | 9°17 | 15°23 | 24°57 | 13°13 | 14°51 | 3°41 | 4°32 | 10°14 | n.a. | W 8 |
| T 9 | 5 0 17 | 15°20'54 | 13°27 | 24°13 | 11°37 | 29°27 | 9°21 | 15°22 | 24°57 | 13°11 | 14°51 | 3°39 | 4°29 | 10°21 | n.a. | T 9 |
| F 10 | 5 4 14 | 16°22'09 | 27°10 | 25°52 | 12°51 | 29°59 | 9°24 | 15°20 | 24°57 | 13°10 | 14°50 | 3°37 | 4°26 | 10°27 | n.a. | F 10 |
| S 11 | 5 8 10 | 17°23'24 | 11♏20 | 27°32 | 14° 5 | 0♎33 | 9°27 | 15°19 | 24°57 | 13° 9 | 14°49 | 3°35 | 4°23 | 10°34 | n.a. | S 11 |
| S 12 | 5 12 7 | 18°24'38 | 25°55 | 29°11 | 15°19 | 1° 5 | 9°30 | 15°17 | 24°57 | 13° 7 | 14°48 | 3°33 | 4°20 | 10°41 | n.a. | S 12 |
| M13 | 5 16 4 | 19°25'53 | 10♐50 | 0♑51 | 16°33 | 1°38 | 9°33 | 15°16 | 24°58 | 13° 6 | 14°47 | 3°31 | 4°16 | 10°47 | n.a. | M13 |
| T 14 | 5 20 0 | 20°27'07 | 25°56 | 2°30 | 17°47 | 2°10 | 9°36 | 15°14 | 24°58 | 13° 5 | 14°46 | 3°31 | 4°13 | 10°54 | n.a. | T 14 |
| W15 | 5 23 57 | 21°28'20 | 11♑ 5 | 4° 9 | 19° 1 | 2°43 | 9°38 | 15°12 | 24°59 | 13° 4 | 14°45 | 3°D31 | 4°10 | 11° 0 | n.a. | W15 |
| T 16 | 5 27 53 | 22°29'33 | 26° 7 | 5°48 | 20°15 | 3°15 | 9°41 | 15°11 | 24°59 | 13° 2 | 14°44 | 3°31 | 4° 7 | 11° 7 | n.a. | T 16 |
| F 17 | 5 31 50 | 23°30'45 | 10♒54 | 7°26 | 21°29 | 3°47 | 9°43 | 15° 9 | 25° 0 | 13° 1 | 14°43 | 3°32 | 4° 4 | 11°14 | n.a. | F 17 |
| S 18 | 5 35 46 | 24°31'56 | 25°21 | 9° 3 | 22°43 | 4°19 | 9°45 | 15° 7 | 25° 0 | 13° 0 | 14°42 | 3°33 | 4° 1 | 11°20 | n.a. | S 18 |
| S 19 | 5 39 43 | 25°33'06 | 9♓25 | 10°39 | 23°57 | 4°51 | 9°46 | 15° 4 | 25° 1 | 12°59 | 14°41 | 3°33 | 3°57 | 11°27 | n.a. | S 19 |
| M20 | 5 43 39 | 26°34'15 | 23° 4 | 12°14 | 25°11 | 5°22 | 9°48 | 15° 2 | 25° 1 | 12°58 | 14°41 | 3°R34 | 3°54 | 11°34 | n.a. | M20 |
| T 21 | 5 47 36 | 27°35'23 | 6♈20 | 13°47 | 26°26 | 5°54 | 9°49 | 15° 0 | 25° 2 | 12°56 | 14°40 | 3°34 | 3°51 | 11°40 | n.a. | T 21 |
| W22 | 5 51 33 | 28°36'30 | 19°15 | 15°18 | 27°40 | 6°26 | 9°50 | 14°57 | 25° 3 | 12°55 | 14°39 | 3°33 | 3°48 | 11°47 | n.a. | W22 |
| T 23 | 5 55 29 | 29°37'36 | 1♉52 | 16°47 | 28°54 | 6°57 | 9°51 | 14°55 | 25° 4 | 12°54 | 14°38 | 3°33 | 3°45 | 11°54 | n.a. | T 23 |
| F 24 | 5 59 26 | 0♑38'41 | 14°15 | 18°12 | 0♐ 8 | 7°28 | 9°52 | 14°52 | 25° 5 | 12°53 | 14°37 | 3°32 | 3°41 | 12° 0 | n.a. | F 24 |
| S 25 | 6 3 22 | 1°39'45 | 26°25 | 19°34 | 1°22 | 7°59 | 9°53 | 14°49 | 25° 6 | 12°52 | 14°37 | 3°32 | 3°38 | 12° 7 | n.a. | S 25 |
| S 26 | 6 7 19 | 2°40'47 | 8♊26 | 20°52 | 2°37 | 8°30 | 9°53 | 14°46 | 25° 7 | 12°51 | 14°36 | 3°32 | 3°35 | 12°14 | n.a. | S 26 |
| M27 | 6 11 15 | 3°41'49 | 20°21 | 22° 4 | 3°51 | 9° 1 | 9°53 | 14°43 | 25° 8 | 12°50 | 14°35 | 3°D32 | 3°32 | 12°20 | n.a. | M27 |
| T 28 | 6 15 12 | 4°42'50 | 2♋12 | 23°11 | 5° 5 | 9°32 | 9°R54 | 14°40 | 25° 9 | 12°49 | 14°35 | 3°R32 | 3°29 | 12°27 | n.a. | T 28 |
| W29 | 6 19 8 | 5°43'49 | 14° 0 | 24°12 | 6°19 | 10° 3 | 9°53 | 14°37 | 25°10 | 12°48 | 14°34 | 3°32 | 3°26 | 12°34 | n.a. | W29 |
| T 30 | 6 23 5 | 6°44'48 | 25°48 | 25° 4 | 7°34 | 10°33 | 9°53 | 14°34 | 25°11 | 12°48 | 14°33 | 3°32 | 3°22 | 12°40 | n.a. | T 30 |
| F 31 | 6 27 2 | 7♑45'45 | 7♌38 | 25♑49 | 8♐48 | 11♎ 3 | 9♍52 | 14♌31 | 25♓12 | 12♉47 | 14♉33 | 3♋31 | 3♋19 | 12♋47 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 21 s45 | 23n46 | 0n10 | 24 s 9 | 1 s49 | 10 s25 | 1n55 | 3n37 | 1n46 | 9n36 | 1n20 | 17n49 | 1n31 | 2 s41 | 0 s43 | 14n17 | 1 s50 | 6n13 | 10 s46 | 23n39 | 23n37 | 23n46 | | n.a. |
| T 2 | 21 55 | 23 49 | 1 14 | 24 26 | 1 52 | 10 52 | 1 54 | 3 24 | 1 47 | 9 35 | 1 21 | 17 50 | 1 31 | 2 41 | 0 43 | 14 17 | 1 50 | 6 12 | 10 46 | 23 39 | 23 37 | 23 47 | | n.a. |
| F 3 | 22 5 | 22 48 | 2 15 | 24 41 | 1 55 | 11 18 | 1 53 | 3 11 | 1 47 | 9 33 | 1 21 | 17 50 | 1 31 | 2 41 | 0 43 | 14 16 | 1 50 | 6 12 | 10 46 | 23 39 | 23 37 | 23 47 | | n.a. |
| S 4 | 22 14 | 20 47 | 3 11 | 24 55 | 1 58 | 11 44 | 1 51 | 2 58 | 1 48 | 9 32 | 1 21 | 17 51 | 1 32 | 2 41 | 0 43 | 14 16 | 1 50 | 6 12 | 10 45 | 23 39 | 23 37 | 23 47 | | n.a. |
| S 5 | 22 23 | 17 51 | 3 59 | 25 7 | 2 0 | 12 10 | 1 50 | 2 45 | 1 48 | 9 30 | 1 22 | 17 51 | 1 32 | 2 41 | 0 43 | 14 16 | 1 50 | 6 12 | 10 45 | 23 39 | 23 37 | 23 48 | | n.a. |
| M 6 | 22 31 | 14 6 | 4 37 | 25 18 | 2 2 | 12 36 | 1 48 | 2 32 | 1 48 | 9 29 | 1 22 | 17 52 | 1 32 | 2 41 | 0 43 | 14 15 | 1 50 | 6 12 | 10 45 | 23 39 | 23 37 | 23 48 | | n.a. |
| T 7 | 22 39 | 9 41 | 5 4 | 25 27 | 2 4 | 13 1 | 1 47 | 2 19 | 1 49 | 9 28 | 1 22 | 17 52 | 1 32 | 2 41 | 0 43 | 14 15 | 1 50 | 6 12 | 10 45 | 23 39 | 23 37 | 23 49 | | n.a. |
| W 8 | 22 46 | 4 44 | 5 16 | 25 34 | 2 5 | 13 26 | 1 45 | 2 6 | 1 49 | 9 27 | 1 22 | 17 53 | 1 33 | 2 41 | 0 43 | 14 14 | 1 49 | 6 12 | 10 45 | 23 39 | 23 38 | 23 49 | | n.a. |
| T 9 | 22 53 | 0 s35 | 5 12 | 25 40 | 2 6 | 13 51 | 1 43 | 1 53 | 1 49 | 9 26 | 1 23 | 17 53 | 1 33 | 2 41 | 0 43 | 14 14 | 1 49 | 6 11 | 10 45 | 23 39 | 23 38 | 23 49 | | n.a. |
| F 10 | 23 0 | 6 4 | 4 50 | 25 44 | 2 6 | 14 15 | 1 42 | 1 40 | 1 50 | 9 25 | 1 23 | 17 54 | 1 33 | 2 41 | 0 43 | 14 14 | 1 49 | 6 11 | 10 44 | 23 39 | 23 38 | 23 50 | | n.a. |
| S 11 | 23 6 | 11 26 | 4 11 | 25 47 | 2 6 | 14 39 | 1 40 | 1 27 | 1 50 | 9 24 | 1 23 | 17 54 | 1 33 | 2 41 | 0 43 | 14 13 | 1 49 | 6 11 | 10 44 | 23 39 | 23 38 | 23 50 | | n.a. |
| S 12 | 23 12 | 16 19 | 3 14 | 25 48 | 2 5 | 15 3 | 1 38 | 1 15 | 1 50 | 9 23 | 1 24 | 17 55 | 1 34 | 2 41 | 0 43 | 14 13 | 1 49 | 6 11 | 10 44 | 23 39 | 23 38 | 23 50 | | n.a. |
| M13 | 23 17 | 20 18 | 2 3 | 25 46 | 2 4 | 15 26 | 1 36 | 1 2 | 1 51 | 9 22 | 1 24 | 17 56 | 1 34 | 2 40 | 0 43 | 14 13 | 1 49 | 6 11 | 10 44 | 23 39 | 23 38 | 23 51 | | n.a. |
| T 14 | 23 21 | 22 57 | 0 42 | 25 43 | 2 2 | 15 49 | 1 34 | 0 49 | 1 51 | 9 21 | 1 24 | 17 56 | 1 34 | 2 40 | 0 42 | 14 12 | 1 49 | 6 11 | 10 44 | 23 39 | 23 38 | 23 51 | | n.a. |
| W15 | 23 26 | 23 56 | 0 s42 | 25 38 | 2 0 | 16 12 | 1 32 | 0 36 | 1 51 | 9 21 | 1 25 | 17 57 | 1 34 | 2 40 | 0 42 | 14 12 | 1 49 | 6 11 | 10 44 | 23 39 | 23 38 | 23 51 | | n.a. |
| T 16 | 23 29 | 23 10 | 2 2 | 25 32 | 1 57 | 16 34 | 1 30 | 0 24 | 1 51 | 9 20 | 1 25 | 17 58 | 1 34 | 2 40 | 0 42 | 14 12 | 1 49 | 6 11 | 10 43 | 23 39 | 23 38 | 23 52 | | n.a. |
| F 17 | 23 33 | 20 47 | 3 13 | 25 23 | 1 53 | 16 56 | 1 27 | 0 11 | 1 52 | 9 19 | 1 25 | 17 59 | 1 35 | 2 39 | 0 42 | 14 11 | 1 49 | 6 11 | 10 43 | 23 39 | 23 39 | 23 52 | | n.a. |
| S 18 | 23 35 | 17 8 | 4 10 | 25 12 | 1 49 | 17 17 | 1 25 | 0 s 1 | 1 52 | 9 19 | 1 25 | 18 0 | 1 35 | 2 39 | 0 42 | 14 11 | 1 49 | 6 11 | 10 43 | 23 39 | 23 39 | 23 52 | | n.a. |
| S 19 | 23 38 | 12 36 | 4 50 | 25 0 | 1 44 | 17 38 | 1 23 | 0 14 | 1 52 | 9 19 | 1 26 | 18 0 | 1 35 | 2 39 | 0 42 | 14 11 | 1 49 | 6 11 | 10 43 | 23 39 | 23 39 | 23 53 | | n.a. |
| M20 | 23 40 | 7 33 | 5 13 | 24 46 | 1 38 | 17 58 | 1 21 | 0 26 | 1 53 | 9 18 | 1 26 | 18 1 | 1 35 | 2 39 | 0 42 | 14 10 | 1 49 | 6 11 | 10 43 | 23 39 | 23 39 | 23 53 | | n.a. |
| T 21 | 23 41 | 2 18 | 5 17 | 24 30 | 1 31 | 18 18 | 1 18 | 0 39 | 1 53 | 9 18 | 1 26 | 18 2 | 1 36 | 2 38 | 0 42 | 14 10 | 1 49 | 6 10 | 10 42 | 23 39 | 23 39 | 23 53 | | n.a. |
| W22 | 23 42 | 2n54 | 5 6 | 24 12 | 1 24 | 18 38 | 1 16 | 0 51 | 1 53 | 9 18 | 1 27 | 18 3 | 1 36 | 2 38 | 0 42 | 14 10 | 1 49 | 6 10 | 10 42 | 23 39 | 23 39 | 23 53 | | n.a. |
| T 23 | 23 42 | 7 53 | 4 40 | 23 53 | 1 15 | 18 56 | 1 13 | 1 3 | 1 54 | 9 18 | 1 27 | 18 4 | 1 36 | 2 38 | 0 42 | 14 9 | 1 49 | 6 10 | 10 42 | 23 39 | 23 39 | 23 54 | | n.a. |
| F 24 | 23 42 | 12 27 | 4 1 | 23 32 | 1 6 | 19 15 | 1 11 | 1 15 | 1 54 | 9 18 | 1 27 | 18 5 | 1 36 | 2 37 | 0 42 | 14 9 | 1 49 | 6 10 | 10 42 | 23 39 | 23 39 | 23 54 | | n.a. |
| S 25 | 23 42 | 16 27 | 3 12 | 23 11 | 0 56 | 19 33 | 1 9 | 1 27 | 1 54 | 9 18 | 1 28 | 18 6 | 1 36 | 2 37 | 0 42 | 14 9 | 1 49 | 6 10 | 10 42 | 23 39 | 23 39 | 23 54 | | n.a. |
| S 26 | 23 41 | 19 44 | 2 15 | 22 48 | 0 44 | 19 50 | 1 6 | 1 40 | 1 55 | 9 18 | 1 28 | 18 7 | 1 37 | 2 36 | 0 42 | 14 9 | 1 49 | 6 10 | 10 41 | 23 39 | 23 39 | 23 54 | | n.a. |
| M27 | 23 39 | 22 8 | 1 13 | 22 24 | 0 32 | 20 7 | 1 3 | 1 52 | 1 55 | 9 18 | 1 28 | 18 8 | 1 37 | 2 36 | 0 42 | 14 8 | 1 49 | 6 10 | 10 41 | 23 39 | 23 39 | 23 55 | | n.a. |
| T 28 | 23 37 | 23 34 | 0 7 | 22 0 | 0 19 | 20 23 | 1 1 | 2 3 | 1 55 | 9 18 | 1 28 | 18 9 | 1 37 | 2 35 | 0 42 | 14 8 | 1 49 | 6 10 | 10 41 | 23 39 | 23 40 | 23 55 | | n.a. |
| W29 | 23 35 | 23 55 | 0n58 | 21 35 | 0 5 | 20 39 | 0 58 | 2 15 | 1 55 | 9 19 | 1 29 | 18 11 | 1 37 | 2 35 | 0 42 | 14 8 | 1 48 | 6 10 | 10 41 | 23 39 | 23 40 | 23 55 | | n.a. |
| T 30 | 23 32 | 23 12 | 2 1 | 21 11 | 0n10 | 20 54 | 0 56 | 2 27 | 1 56 | 9 19 | 1 29 | 18 12 | 1 38 | 2 34 | 0 42 | 14 8 | 1 48 | 6 10 | 10 41 | 23 39 | 23 40 | 23 55 | | n.a. |
| F 31 | 23 s28 | 21n26 | 2n59 | 20 s47 | 0n26 | 21 s 9 | 0n53 | 2 s39 | 1n56 | 9n20 | 1n29 | 18n13 | 1n38 | 2 s34 | 0 s42 | 14n 8 | 1 s48 | 6n10 | 10 s40 | 23n39 | 23n40 | 23n56 | | n.a. |

Julian Day Number = 1690711.5, Delta T = 03h10m38s
Ecliptic obliquity = 23°42'18, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°13'32, Lahiri = - 5°06'32 Julian Calendar 1 Dec. 85 BCE == Greg. Calendar 29 Nov. 085 BCE

The year -84 astronomical counting style corresponds to year 085 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 84 BCE
# geocentric

## JANUARY 84 BCE (-83) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 30 58 | 8♑46'42 | 19♌33 | 26♑25 | 10♐ 2 | 11♎34 | 9°R52 | 14°R28 | 25♓14 | 12°R46 | 14°R32 | 3°R31 | 3♋16 | 12♋54 | n.a. | S 1 |
| S 2 | 6 34 55 | 9°47'37 | 1♍35 | 26°51 | 11°16 | 12° 4 | 9♍51 | 14♌24 | 25°15 | 12♉45 | 14♉31 | 3♋30 | 3°13 | 13° 0 | n.a. | S 2 |
| M 3 | 6 38 51 | 10°48'31 | 13°48 | 27° 7 | 12°31 | 12°34 | 9°50 | 14°21 | 25°16 | 12°44 | 14°31 | 3°29 | 3°10 | 13° 7 | n.a. | M 3 |
| T 4 | 6 42 48 | 11°49'25 | 26°15 | 27°R12 | 13°45 | 13° 3 | 9°48 | 14°17 | 25°18 | 12°44 | 14°30 | 3°28 | 3° 7 | 13°13 | n.a. | T 4 |
| W 5 | 6 46 44 | 12°50'17 | 9♎ 0 | 27° 6 | 14°59 | 13°33 | 9°47 | 14°13 | 25°19 | 12°43 | 14°30 | 3°D28 | 3° 3 | 13°20 | n.a. | W 5 |
| T 6 | 6 50 41 | 13°51'08 | 22° 7 | 26°48 | 16°14 | 14° 2 | 9°45 | 14°10 | 25°21 | 12°42 | 14°29 | 3°28 | 3° 0 | 13°27 | n.a. | T 6 |
| F 7 | 6 54 37 | 14°51'59 | 5♏38 | 26°20 | 17°28 | 14°32 | 9°43 | 14° 6 | 25°22 | 12°42 | 14°29 | 3°29 | 2°57 | 13°33 | n.a. | F 7 |
| S 8 | 6 58 34 | 15°52'48 | 19°35 | 25°42 | 18°43 | 15° 1 | 9°41 | 14° 2 | 25°24 | 12°41 | 14°28 | 3°30 | 2°54 | 13°40 | n.a. | S 8 |
| S 9 | 7 2 31 | 16°53'36 | 3♐58 | 24°55 | 19°57 | 15°30 | 9°39 | 13°58 | 25°26 | 12°41 | 14°28 | 3°31 | 2°51 | 13°47 | n.a. | S 9 |
| M10 | 7 6 27 | 17°54'23 | 18°44 | 23°59 | 21°11 | 15°58 | 9°37 | 13°54 | 25°27 | 12°40 | 14°27 | 3°31 | 2°47 | 13°53 | n.a. | M10 |
| T 11 | 7 10 24 | 18°55'09 | 3♑48 | 22°57 | 22°26 | 16°27 | 9°34 | 13°50 | 25°29 | 12°40 | 14°27 | 3°R32 | 2°44 | 14° 0 | n.a. | T 11 |
| W12 | 7 14 20 | 19°55'54 | 19° 1 | 21°50 | 23°40 | 16°55 | 9°31 | 13°46 | 25°31 | 12°39 | 14°26 | 3°31 | 2°41 | 14° 7 | n.a. | W12 |
| T 13 | 7 18 17 | 20°56'37 | 4♒14 | 20°41 | 24°54 | 17°23 | 9°28 | 13°42 | 25°33 | 12°39 | 14°26 | 3°30 | 2°38 | 14°13 | n.a. | T 13 |
| F 14 | 7 22 13 | 21°57'18 | 19°17 | 19°31 | 26° 9 | 17°51 | 9°25 | 13°38 | 25°35 | 12°38 | 14°26 | 3°28 | 2°35 | 14°20 | n.a. | F 14 |
| S 15 | 7 26 10 | 22°57'57 | 4♓ 1 | 18°21 | 27°23 | 18°19 | 9°22 | 13°33 | 25°37 | 12°38 | 14°25 | 3°25 | 2°32 | 14°27 | n.a. | S 15 |
| S 16 | 7 30 7 | 23°58'35 | 18°20 | 17°15 | 28°37 | 18°47 | 9°18 | 13°29 | 25°39 | 12°38 | 14°25 | 3°23 | 2°28 | 14°33 | n.a. | S 16 |
| M17 | 7 34 3 | 24°59'11 | 2♈12 | 16°12 | 29°52 | 19°14 | 9°14 | 13°25 | 25°41 | 12°37 | 14°25 | 3°20 | 2°25 | 14°40 | n.a. | M17 |
| T 18 | 7 38 0 | 25°59'45 | 15°35 | 15°15 | 1♑ 6 | 19°41 | 9°11 | 13°20 | 25°43 | 12°37 | 14°24 | 3°19 | 2°22 | 14°47 | n.a. | T 18 |
| W19 | 7 41 56 | 27° 0'16 | 28°33 | 14°24 | 2°20 | 20° 8 | 9° 7 | 13°16 | 25°45 | 12°37 | 14°24 | 3°D18 | 2°19 | 14°53 | n.a. | W19 |
| T 20 | 7 45 53 | 28° 0'46 | 11♉ 8 | 13°41 | 3°35 | 20°35 | 9° 2 | 13°11 | 25°47 | 12°37 | 14°24 | 3°19 | 2°16 | 15° 0 | n.a. | T 20 |
| F 21 | 7 49 49 | 29° 1'14 | 23°24 | 13° 4 | 4°49 | 21° 1 | 8°58 | 13° 7 | 25°49 | 12°37 | 14°24 | 3°21 | 2°13 | 15° 6 | n.a. | F 21 |
| S 22 | 7 53 46 | 0♒ 1'40 | 5♊27 | 12°35 | 6° 3 | 21°27 | 8°53 | 13° 2 | 25°51 | 12°36 | 14°23 | 3°22 | 2° 9 | 15°13 | n.a. | S 22 |
| S 23 | 7 57 42 | 1° 2'04 | 17°21 | 12°14 | 7°18 | 21°54 | 8°49 | 12°57 | 25°54 | 12°36 | 14°23 | 3°24 | 2° 6 | 15°20 | n.a. | S 23 |
| M24 | 8 1 39 | 2° 2'26 | 29°10 | 12° 0 | 8°32 | 22°19 | 8°44 | 12°53 | 25°56 | 12°36 | 14°23 | 3°R25 | 2° 3 | 15°26 | n.a. | M24 |
| T 25 | 8 5 36 | 3° 2'47 | 10♋57 | 11°D53 | 9°46 | 22°45 | 8°39 | 12°48 | 25°58 | 12°D36 | 14°23 | 3°25 | 2° 0 | 15°33 | n.a. | T 25 |
| W26 | 8 9 32 | 4° 3'05 | 22°45 | 11°53 | 11° 1 | 23°10 | 8°34 | 12°44 | 26° 1 | 12°36 | 14°23 | 3°23 | 1°57 | 15°40 | n.a. | W26 |
| T 27 | 8 13 29 | 5° 3'21 | 4♌36 | 12° 0 | 12°15 | 23°35 | 8°28 | 12°39 | 26° 3 | 12°36 | 14°23 | 3°20 | 1°53 | 15°46 | n.a. | T 27 |
| F 28 | 8 17 25 | 6° 3'36 | 16°33 | 12°13 | 13°29 | 24° 0 | 8°23 | 12°34 | 26° 6 | 12°36 | 14°23 | 3°15 | 1°50 | 15°53 | n.a. | F 28 |
| S 29 | 8 21 22 | 7° 3'48 | 28°37 | 12°32 | 14°44 | 24°24 | 8°17 | 12°29 | 26° 8 | 12°37 | 14°23 | 3° 9 | 1°47 | 16° 0 | n.a. | S 29 |
| S 30 | 8 25 18 | 8° 3'59 | 10♍50 | 12°56 | 15°58 | 24°49 | 8°12 | 12°25 | 26°11 | 12°37 | 14°D23 | 3° 3 | 1°44 | 16° 6 | n.a. | S 30 |
| M31 | 8 29 15 | 9♒ 4'08 | 23♍13 | 13♑25 | 17♑12 | 25♎13 | 8♍ 6 | 12♌20 | 26♓13 | 12♉37 | 14♉23 | 2♋56 | 1♋41 | 16♋13 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23s25 | 18n44 | 3n49 | 20s24 | 0n43 | 21s22 | 0n50 | 2s51 | 1n56 | 9n20 | 1n30 | 18n14 | 1n38 | 2s33 | 0s42 | 14n 7 | 1s48 | 6n11 | 10s40 | 23n39 | 23n40 | 23n56 | | n.a. |
| S 2 | 23 20 | 15 13 | 4 30 | 20 2 | 1 0 | 21 36 | 0 47 | 3 2 | 1 56 | 9 21 | 1 30 | 18 15 | 1 38 | 2 33 | 0 42 | 14 7 | 1 48 | 6 11 | 10 40 | 23 39 | 23 40 | 23 56 | | n.a. |
| M 3 | 23 16 | 11 2 | 4 59 | 19 42 | 1 18 | 21 48 | 0 45 | 3 14 | 1 57 | 9 22 | 1 30 | 18 16 | 1 38 | 2 32 | 0 42 | 14 7 | 1 48 | 6 11 | 10 40 | 23 40 | 23 40 | 23 56 | | n.a. |
| T 4 | 23 10 | 6 19 | 5 15 | 19 23 | 1 36 | 22 1 | 0 42 | 3 25 | 1 57 | 9 22 | 1 31 | 18 18 | 1 38 | 2 31 | 0 42 | 14 7 | 1 48 | 6 11 | 10 39 | 23 40 | 23 40 | 23 56 | | n.a. |
| W 5 | 23 5 | 1 14 | 5 16 | 19 7 | 1 54 | 22 12 | 0 39 | 3 36 | 1 57 | 9 23 | 1 31 | 18 19 | 1 39 | 2 31 | 0 42 | 14 7 | 1 48 | 6 11 | 10 39 | 23 40 | 23 40 | 23 57 | | n.a. |
| T 6 | 22 59 | 4s 3 | 5 1 | 18 53 | 2 11 | 22 23 | 0 36 | 3 48 | 1 58 | 9 24 | 1 31 | 18 20 | 1 39 | 2 30 | 0 42 | 14 7 | 1 48 | 6 11 | 10 39 | 23 40 | 23 40 | 23 57 | | n.a. |
| F 7 | 22 52 | 9 19 | 4 29 | 18 41 | 2 28 | 22 33 | 0 34 | 3 59 | 1 58 | 9 25 | 1 31 | 18 22 | 1 39 | 2 30 | 0 42 | 14 6 | 1 48 | 6 11 | 10 39 | 23 40 | 23 40 | 23 57 | | n.a. |
| S 8 | 22 45 | 14 17 | 3 40 | 18 33 | 2 45 | 22 42 | 0 31 | 4 10 | 1 58 | 9 26 | 1 32 | 18 23 | 1 39 | 2 29 | 0 42 | 14 6 | 1 48 | 6 11 | 10 38 | 23 39 | 23 40 | 23 57 | | n.a. |
| S 9 | 22 37 | 18 37 | 2 37 | 18 27 | 2 59 | 22 51 | 0 28 | 4 21 | 1 58 | 9 27 | 1 32 | 18 24 | 1 39 | 2 28 | 0 41 | 14 6 | 1 48 | 6 11 | 10 38 | 23 39 | 23 40 | 23 57 | | n.a. |
| M10 | 22 30 | 21 52 | 1 21 | 18 23 | 3 13 | 22 59 | 0 25 | 4 32 | 1 58 | 9 28 | 1 32 | 18 26 | 1 40 | 2 27 | 0 41 | 14 6 | 1 48 | 6 11 | 10 38 | 23 39 | 23 41 | 23 58 | | n.a. |
| T 11 | 22 21 | 23 40 | 0s 1 | 18 23 | 3 24 | 23 7 | 0 23 | 4 43 | 1 59 | 9 30 | 1 33 | 18 27 | 1 40 | 2 27 | 0 41 | 14 6 | 1 48 | 6 11 | 10 38 | 23 39 | 23 41 | 23 58 | | n.a. |
| W12 | 22 12 | 23 44 | 1 25 | 18 24 | 3 33 | 23 13 | 0 20 | 4 53 | 1 59 | 9 31 | 1 33 | 18 28 | 1 40 | 2 26 | 0 41 | 14 6 | 1 48 | 6 11 | 10 37 | 23 39 | 23 41 | 23 58 | | n.a. |
| T 13 | 22 3 | 22 2 | 2 42 | 18 28 | 3 40 | 23 19 | 0 17 | 5 4 | 1 59 | 9 32 | 1 33 | 18 30 | 1 40 | 2 25 | 0 41 | 14 6 | 1 48 | 6 12 | 10 37 | 23 39 | 23 41 | 23 58 | | n.a. |
| F 14 | 21 54 | 18 47 | 3 47 | 18 34 | 3 45 | 23 25 | 0 14 | 5 15 | 1 59 | 9 34 | 1 33 | 18 31 | 1 40 | 2 24 | 0 41 | 14 6 | 1 48 | 6 12 | 10 37 | 23 40 | 23 41 | 23 58 | | n.a. |
| S 15 | 21 44 | 14 25 | 4 35 | 18 41 | 3 47 | 23 29 | 0 11 | 5 25 | 2 0 | 9 35 | 1 34 | 18 32 | 1 40 | 2 24 | 0 41 | 14 6 | 1 47 | 6 12 | 10 37 | 23 40 | 23 41 | 23 58 | | n.a. |
| S 16 | 21 33 | 9 20 | 5 5 | 18 50 | 3 47 | 23 33 | 0 9 | 5 36 | 2 0 | 9 37 | 1 34 | 18 34 | 1 41 | 2 23 | 0 41 | 14 6 | 1 47 | 6 12 | 10 36 | 23 40 | 23 41 | 23 58 | | n.a. |
| M17 | 21 22 | 3 56 | 5 16 | 19 0 | 3 44 | 23 36 | 0 6 | 5 46 | 2 0 | 9 39 | 1 34 | 18 35 | 1 41 | 2 22 | 0 41 | 14 6 | 1 47 | 6 12 | 10 36 | 23 40 | 23 41 | 23 59 | | n.a. |
| T 18 | 21 11 | 1n28 | 5 9 | 19 11 | 3 40 | 23 39 | 0 3 | 5 56 | 2 0 | 9 40 | 1 35 | 18 37 | 1 41 | 2 21 | 0 41 | 14 6 | 1 47 | 6 12 | 10 36 | 23 40 | 23 41 | 23 59 | | n.a. |
| W19 | 20 59 | 6 38 | 4 46 | 19 22 | 3 34 | 23 41 | 0 0 | 6 6 | 2 0 | 9 42 | 1 35 | 18 38 | 1 41 | 2 20 | 0 41 | 14 6 | 1 47 | 6 13 | 10 36 | 23 40 | 23 41 | 23 59 | | n.a. |
| T 20 | 20 47 | 11 23 | 4 10 | 19 34 | 3 27 | 23 42 | 0s 2 | 6 16 | 2 0 | 9 44 | 1 35 | 18 40 | 1 41 | 2 19 | 0 41 | 14 6 | 1 47 | 6 13 | 10 35 | 23 40 | 23 41 | 23 59 | | n.a. |
| F 21 | 20 35 | 15 33 | 3 23 | 19 46 | 3 18 | 23 42 | 0 5 | 6 26 | 2 1 | 9 46 | 1 35 | 18 41 | 1 41 | 2 18 | 0 41 | 14 6 | 1 47 | 6 13 | 10 35 | 23 40 | 23 41 | 23 59 | | n.a. |
| S 22 | 20 22 | 19 1 | 2 28 | 19 59 | 3 8 | 23 41 | 0 8 | 6 36 | 2 1 | 9 48 | 1 36 | 18 42 | 1 41 | 2 17 | 0 41 | 14 6 | 1 47 | 6 13 | 10 35 | 23 40 | 23 41 | 23 59 | | n.a. |
| S 23 | 20 9 | 21 39 | 1 27 | 20 12 | 2 57 | 23 40 | 0 10 | 6 45 | 2 1 | 9 50 | 1 36 | 18 44 | 1 42 | 2 17 | 0 41 | 14 6 | 1 47 | 6 13 | 10 35 | 23 40 | 23 41 | 23 59 | | n.a. |
| M24 | 19 55 | 23 19 | 0 23 | 20 24 | 2 46 | 23 38 | 0 13 | 6 55 | 2 1 | 9 52 | 1 36 | 18 45 | 1 42 | 2 16 | 0 41 | 14 6 | 1 47 | 6 14 | 10 34 | 23 40 | 23 41 | 23 59 | | n.a. |
| T 25 | 19 42 | 23 56 | 0n41 | 20 36 | 2 34 | 23 36 | 0 15 | 7 4 | 2 1 | 9 54 | 1 36 | 18 47 | 1 42 | 2 15 | 0 41 | 14 6 | 1 47 | 6 14 | 10 34 | 23 40 | 23 41 | 23 59 | | n.a. |
| W26 | 19 27 | 23 28 | 1 44 | 20 49 | 2 22 | 23 33 | 0 18 | 7 13 | 2 1 | 9 56 | 1 37 | 18 48 | 1 42 | 2 14 | 0 41 | 14 6 | 1 47 | 6 14 | 10 34 | 23 40 | 23 41 | 23 59 | | n.a. |
| T 27 | 19 13 | 21 57 | 2 43 | 21 0 | 2 10 | 23 29 | 0 21 | 7 23 | 2 1 | 9 59 | 1 37 | 18 50 | 1 42 | 2 13 | 0 41 | 14 6 | 1 47 | 6 14 | 10 34 | 23 40 | 23 41 | 23 59 | | n.a. |
| F 28 | 18 58 | 19 27 | 3 34 | 21 12 | 1 57 | 23 24 | 0 23 | 7 32 | 2 2 | 10 1 | 1 37 | 18 51 | 1 42 | 2 12 | 0 41 | 14 6 | 1 47 | 6 14 | 10 33 | 23 40 | 23 42 | 23 59 | | n.a. |
| S 29 | 18 43 | 16 5 | 4 17 | 21 22 | 1 45 | 23 18 | 0 26 | 7 41 | 2 2 | 10 3 | 1 37 | 18 53 | 1 42 | 2 11 | 0 41 | 14 6 | 1 47 | 6 15 | 10 33 | 23 40 | 23 42 | 24 0 | | n.a. |
| S 30 | 18 27 | 12 1 | 4 48 | 21 32 | 1 32 | 23 12 | 0 28 | 7 50 | 2 2 | 10 6 | 1 37 | 18 54 | 1 42 | 2 10 | 0 41 | 14 6 | 1 46 | 6 15 | 10 33 | 23 40 | 23 42 | 24 0 | | n.a. |
| M31 | 18s11 | 7n24 | 5n 7 | 21s42 | 1n20 | 23s 5 | 0s31 | 7s58 | 2n 2 | 10n 8 | 1n38 | 18n56 | 1n42 | 2s 8 | 0s41 | 14n 6 | 1s46 | 6n15 | 10s32 | 23n40 | 23n42 | 24n 0 | | n.a. |

Julian Day Number = 1690742.5, Delta T = 03h10m37s
Ecliptic obliquity = 23°42'18, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°13'28, Lahiri = - 5°06'27 Julian Calendar 1 Jan. 84 BCE == Greg. Calendar 30 Dec. 085 BCE

The year -83 astronomical counting style corresponds to year 084 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 84 BCE
# geocentric

## FEBRUARY 84 BCE (-83) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 33 11 | 10♒ 4'15 | 5♎48 | 13♑58 | 18♑27 | 25♎36 | 8°R 0 | 12°R15 | 26♓16 | 12♉37 | 14♉23 | 2°R51 | 1♋38 | 16♋20 | n.a. | T 1 |
| W 2 | 8 37 8 | 11° 4'20 | 18°37 | 14°37 | 19°41 | 26° 0 | 7♍54 | 12♌10 | 26°18 | 12°37 | 14°23 | 2♋47 | 1°34 | 16°26 | n.a. | W 2 |
| T 3 | 8 41 5 | 12° 4'24 | 1♏43 | 15°19 | 20°55 | 26°23 | 7°47 | 12° 6 | 26°21 | 12°38 | 14°23 | 2°45 | 1°31 | 16°33 | n.a. | T 3 |
| F 4 | 8 45 1 | 13° 4'26 | 15° 7 | 16° 5 | 22°10 | 26°45 | 7°41 | 12° 1 | 26°24 | 12°38 | 14°23 | 2°D44 | 1°28 | 16°40 | n.a. | F 4 |
| S 5 | 8 48 58 | 14° 4'27 | 28°52 | 16°54 | 23°24 | 27° 8 | 7°34 | 11°56 | 26°26 | 12°38 | 14°23 | 2°45 | 1°25 | 16°46 | n.a. | S 5 |
| S 6 | 8 52 54 | 15° 4'25 | 12♐58 | 17°47 | 24°38 | 27°30 | 7°28 | 11°51 | 26°29 | 12°39 | 14°23 | 2°46 | 1°22 | 16°53 | n.a. | S 6 |
| M 7 | 8 56 51 | 16° 4'23 | 27°26 | 18°43 | 25°52 | 27°52 | 7°21 | 11°46 | 26°32 | 12°39 | 14°23 | 2°R47 | 1°19 | 17° 0 | n.a. | M 7 |
| T 8 | 9 0 47 | 17° 4'18 | 12♑12 | 19°41 | 27° 7 | 28°13 | 7°14 | 11°42 | 26°35 | 12°40 | 14°24 | 2°47 | 1°15 | 17° 6 | n.a. | T 8 |
| W 9 | 9 4 44 | 18° 4'11 | 27°11 | 20°43 | 28°21 | 28°34 | 7° 7 | 11°37 | 26°38 | 12°40 | 14°24 | 2°45 | 1°12 | 17°13 | n.a. | W 9 |
| T 10 | 9 8 40 | 19° 4'03 | 12♒15 | 21°46 | 29°35 | 28°55 | 7° 0 | 11°32 | 26°40 | 12°41 | 14°24 | 2°40 | 1° 9 | 17°19 | n.a. | T 10 |
| F 11 | 9 12 37 | 20° 3'52 | 27°15 | 22°53 | 0♒50 | 29°15 | 6°53 | 11°28 | 26°43 | 12°41 | 14°24 | 2°34 | 1° 6 | 17°26 | n.a. | F 11 |
| S 12 | 9 16 34 | 21° 3'39 | 12♓ 3 | 24° 1 | 2° 4 | 29°35 | 6°46 | 11°23 | 26°46 | 12°42 | 14°24 | 2°26 | 1° 3 | 17°33 | n.a. | S 12 |
| S 13 | 9 20 30 | 22° 3'24 | 26°29 | 25°12 | 3°18 | 29°55 | 6°39 | 11°18 | 26°49 | 12°42 | 14°25 | 2°18 | 0°59 | 17°39 | n.a. | S 13 |
| M14 | 9 24 27 | 23° 3'07 | 10♈29 | 26°24 | 4°32 | 0♏14 | 6°32 | 11°14 | 26°52 | 12°43 | 14°25 | 2°11 | 0°56 | 17°46 | n.a. | M14 |
| T 15 | 9 28 23 | 24° 2'47 | 24° 1 | 27°39 | 5°47 | 0°33 | 6°24 | 11° 9 | 26°55 | 12°44 | 14°25 | 2° 5 | 0°53 | 17°53 | n.a. | T 15 |
| W16 | 9 32 20 | 25° 2'25 | 7♉ 4 | 28°55 | 7° 1 | 0°51 | 6°17 | 11° 4 | 26°58 | 12°45 | 14°26 | 2° 1 | 0°50 | 17°59 | n.a. | W16 |
| T 17 | 9 36 16 | 26° 2'01 | 19°43 | 0♒13 | 8°15 | 1° 9 | 6° 9 | 11° 0 | 27° 1 | 12°45 | 14°26 | 2° 0 | 0°47 | 18° 6 | n.a. | T 17 |
| F 18 | 9 40 13 | 27° 1'34 | 2♊ 1 | 1°33 | 9°29 | 1°27 | 6° 2 | 10°55 | 27° 4 | 12°46 | 14°27 | 2°D 0 | 0°44 | 18°13 | n.a. | F 18 |
| S 19 | 9 44 9 | 28° 1'05 | 14° 3 | 2°54 | 10°43 | 1°44 | 5°54 | 10°51 | 27° 7 | 12°47 | 14°27 | 2° 0 | 0°40 | 18°19 | n.a. | S 19 |
| S 20 | 9 48 6 | 29° 0'34 | 25°55 | 4°17 | 11°58 | 2° 0 | 5°47 | 10°46 | 27°10 | 12°48 | 14°27 | 2°R 1 | 0°37 | 18°26 | n.a. | S 20 |
| M21 | 9 52 2 | 0♓ 0'00 | 7♋43 | 5°42 | 13°12 | 2°17 | 5°39 | 10°42 | 27°14 | 12°49 | 14°28 | 2° 1 | 0°34 | 18°33 | n.a. | M21 |
| T 22 | 9 55 59 | 0°59'24 | 19°29 | 7° 8 | 14°26 | 2°32 | 5°31 | 10°38 | 27°17 | 12°50 | 14°28 | 2° 0 | 0°31 | 18°39 | n.a. | T 22 |
| W23 | 9 59 56 | 1°58'45 | 1♌20 | 8°35 | 15°40 | 2°48 | 5°24 | 10°33 | 27°20 | 12°51 | 14°29 | 1°55 | 0°28 | 18°46 | n.a. | W23 |
| T 24 | 10 3 52 | 2°58'05 | 13°17 | 10° 5 | 16°54 | 3° 3 | 5°16 | 10°29 | 27°23 | 12°52 | 14°29 | 1°49 | 0°24 | 18°53 | n.a. | T 24 |
| F 25 | 10 7 49 | 3°57'21 | 25°23 | 11°35 | 18° 8 | 3°17 | 5° 8 | 10°25 | 27°26 | 12°53 | 14°30 | 1°40 | 0°21 | 18°59 | n.a. | F 25 |
| S 26 | 10 11 45 | 4°56'36 | 7♍39 | 13° 7 | 19°22 | 3°31 | 5° 0 | 10°21 | 27°29 | 12°54 | 14°30 | 1°29 | 0°18 | 19° 6 | n.a. | S 26 |
| S 27 | 10 15 42 | 5°55'49 | 20° 8 | 14°40 | 20°37 | 3°44 | 4°53 | 10°17 | 27°33 | 12°55 | 14°31 | 1°17 | 0°15 | 19°13 | n.a. | S 27 |
| M28 | 10 19 38 | 6♓54'59 | 2♎47 | 16♒15 | 21♒51 | 3♏57 | 4♍45 | 10♌13 | 27♓36 | 12♉56 | 14♉32 | 1♋ 5 | 0♋12 | 19♋19 | n.a. | M28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 17s55 | 2n25 | 5n11 | 21s50 | 1n 8 | 22s58 | 0s33 | 8s 7 | 2n 2 | 10n10 | 1n38 | 18n57 | 1n43 | 2s 7 | 0s41 | 14n 7 | 1s46 | 6n15 | 10s32 | 23n40 | 23n42 | 24n 0 | | n.a. |
| W 2 | 17 39 | 2s46 | 4 59 | 21 58 | 0 56 | 22 49 | 0 35 | 8 15 | 2 2 | 10 13 | 1 38 | 18 58 | 1 43 | 2 6 | 0 41 | 14 7 | 1 46 | 6 16 | 10 32 | 23 41 | 23 42 | 24 0 | | n.a. |
| T 3 | 17 22 | 7 57 | 4 32 | 22 5 | 0 44 | 22 41 | 0 38 | 8 24 | 2 2 | 10 15 | 1 38 | 19 0 | 1 43 | 2 5 | 0 41 | 14 7 | 1 46 | 6 16 | 10 32 | 23 41 | 23 42 | 24 0 | | n.a. |
| F 4 | 17 5 | 12 53 | 3 50 | 22 11 | 0 33 | 22 31 | 0 40 | 8 32 | 2 2 | 10 18 | 1 38 | 19 1 | 1 43 | 2 4 | 0 41 | 14 7 | 1 46 | 6 16 | 10 31 | 23 41 | 23 42 | 24 0 | | n.a. |
| S 5 | 16 47 | 17 18 | 2 54 | 22 16 | 0 21 | 22 21 | 0 42 | 8 40 | 2 2 | 10 21 | 1 39 | 19 3 | 1 43 | 2 3 | 0 41 | 14 7 | 1 46 | 6 17 | 10 31 | 23 41 | 23 42 | 24 0 | | n.a. |
| S 6 | 16 30 | 20 52 | 1 46 | 22 20 | 0 11 | 22 10 | 0 44 | 8 48 | 2 2 | 10 23 | 1 39 | 19 4 | 1 43 | 2 2 | 0 41 | 14 7 | 1 46 | 6 17 | 10 31 | 23 41 | 23 42 | 24 0 | | n.a. |
| M 7 | 16 12 | 23 12 | 0 29 | 22 23 | 0 0 | 21 58 | 0 46 | 8 56 | 2 2 | 10 26 | 1 39 | 19 6 | 1 43 | 2 1 | 0 41 | 14 8 | 1 46 | 6 17 | 10 31 | 23 41 | 23 42 | 24 0 | | n.a. |
| T 8 | 15 53 | 23 59 | 0s51 | 22 24 | 0s10 | 21 46 | 0 49 | 9 4 | 2 2 | 10 29 | 1 39 | 19 7 | 1 43 | 2 0 | 0 41 | 14 8 | 1 46 | 6 18 | 10 30 | 23 41 | 23 42 | 24 0 | | n.a. |
| W 9 | 15 35 | 23 3 | 2 8 | 22 25 | 0 20 | 21 33 | 0 51 | 9 11 | 2 2 | 10 32 | 1 39 | 19 8 | 1 43 | 1 58 | 0 41 | 14 8 | 1 46 | 6 18 | 10 30 | 23 41 | 23 42 | 24 0 | | n.a. |
| T 10 | 15 16 | 20 28 | 3 17 | 22 24 | 0 29 | 21 19 | 0 53 | 9 19 | 2 2 | 10 34 | 1 39 | 19 10 | 1 43 | 1 57 | 0 40 | 14 8 | 1 46 | 6 18 | 10 30 | 23 41 | 23 42 | 24 0 | | n.a. |
| F 11 | 14 57 | 16 29 | 4 12 | 22 22 | 0 38 | 21 5 | 0 55 | 9 26 | 2 2 | 10 37 | 1 40 | 19 11 | 1 43 | 1 56 | 0 40 | 14 8 | 1 46 | 6 18 | 10 30 | 23 41 | 23 42 | 24 0 | | n.a. |
| S 12 | 14 38 | 11 33 | 4 49 | 22 19 | 0 47 | 20 50 | 0 57 | 9 33 | 2 2 | 10 40 | 1 40 | 19 13 | 1 43 | 1 55 | 0 40 | 14 9 | 1 46 | 6 19 | 10 29 | 23 41 | 23 42 | 24 0 | | n.a. |
| S 13 | 14 19 | 6 5 | 5 6 | 22 14 | 0 55 | 20 35 | 0 58 | 9 40 | 2 2 | 10 43 | 1 40 | 19 14 | 1 43 | 1 54 | 0 40 | 14 9 | 1 46 | 6 19 | 10 29 | 23 41 | 23 42 | 23 59 | | n.a. |
| M14 | 13 59 | 0 28 | 5 4 | 22 9 | 1 3 | 20 19 | 1 0 | 9 47 | 2 2 | 10 46 | 1 40 | 19 15 | 1 43 | 1 52 | 0 40 | 14 9 | 1 45 | 6 19 | 10 29 | 23 41 | 23 42 | 23 59 | | n.a. |
| T 15 | 13 39 | 5n 0 | 4 46 | 22 1 | 1 11 | 20 2 | 1 2 | 9 54 | 2 1 | 10 49 | 1 40 | 19 17 | 1 43 | 1 51 | 0 40 | 14 10 | 1 45 | 6 20 | 10 28 | 23 41 | 23 42 | 23 59 | | n.a. |
| W16 | 13 19 | 10 3 | 4 12 | 21 53 | 1 18 | 19 45 | 1 4 | 10 0 | 2 1 | 10 51 | 1 40 | 19 18 | 1 43 | 1 50 | 0 40 | 14 10 | 1 45 | 6 20 | 10 28 | 23 41 | 23 42 | 23 59 | | n.a. |
| T 17 | 12 59 | 14 32 | 3 28 | 21 43 | 1 25 | 19 27 | 1 5 | 10 7 | 2 1 | 10 54 | 1 40 | 19 19 | 1 44 | 1 49 | 0 40 | 14 10 | 1 45 | 6 21 | 10 28 | 23 41 | 23 42 | 23 59 | | n.a. |
| F 18 | 12 38 | 18 17 | 2 34 | 21 31 | 1 31 | 19 9 | 1 7 | 10 13 | 2 1 | 10 57 | 1 40 | 19 21 | 1 44 | 1 48 | 0 40 | 14 10 | 1 45 | 6 21 | 10 28 | 23 41 | 23 42 | 23 59 | | n.a. |
| S 19 | 12 18 | 21 10 | 1 35 | 21 18 | 1 37 | 18 50 | 1 8 | 10 19 | 2 1 | 11 0 | 1 41 | 19 22 | 1 44 | 1 46 | 0 40 | 14 11 | 1 45 | 6 21 | 10 27 | 23 41 | 23 42 | 23 59 | | n.a. |
| S 20 | 11 57 | 23 6 | 0 33 | 21 4 | 1 43 | 18 31 | 1 10 | 10 25 | 2 0 | 11 3 | 1 41 | 19 23 | 1 44 | 1 45 | 0 40 | 14 11 | 1 45 | 6 22 | 10 27 | 23 41 | 23 42 | 23 59 | | n.a. |
| M21 | 11 36 | 23 59 | 0n30 | 20 48 | 1 48 | 18 11 | 1 11 | 10 31 | 2 0 | 11 6 | 1 41 | 19 24 | 1 44 | 1 44 | 0 40 | 14 11 | 1 45 | 6 22 | 10 27 | 23 41 | 23 42 | 23 59 | | n.a. |
| T 22 | 11 15 | 23 48 | 1 32 | 20 31 | 1 53 | 17 51 | 1 13 | 10 37 | 2 0 | 11 9 | 1 41 | 19 26 | 1 44 | 1 42 | 0 40 | 14 12 | 1 45 | 6 22 | 10 27 | 23 41 | 23 42 | 23 59 | | n.a. |
| W23 | 10 53 | 22 31 | 2 30 | 20 12 | 1 57 | 17 30 | 1 14 | 10 42 | 2 0 | 11 12 | 1 41 | 19 27 | 1 44 | 1 41 | 0 40 | 14 12 | 1 45 | 6 23 | 10 26 | 23 41 | 23 42 | 23 59 | | n.a. |
| T 24 | 10 32 | 20 14 | 3 22 | 19 52 | 2 1 | 17 8 | 1 15 | 10 48 | 1 59 | 11 15 | 1 41 | 19 28 | 1 44 | 1 40 | 0 40 | 14 12 | 1 45 | 6 23 | 10 26 | 23 42 | 23 42 | 23 59 | | n.a. |
| F 25 | 10 10 | 17 2 | 4 5 | 19 30 | 2 5 | 16 46 | 1 17 | 10 53 | 1 59 | 11 18 | 1 41 | 19 29 | 1 44 | 1 39 | 0 40 | 14 13 | 1 45 | 6 24 | 10 26 | 23 42 | 23 42 | 23 58 | | n.a. |
| S 26 | 9 48 | 13 4 | 4 37 | 19 6 | 2 8 | 16 24 | 1 18 | 10 58 | 1 58 | 11 21 | 1 41 | 19 30 | 1 44 | 1 37 | 0 40 | 14 13 | 1 45 | 6 24 | 10 26 | 23 42 | 23 42 | 23 58 | | n.a. |
| S 27 | 9 26 | 8 30 | 4 57 | 18 41 | 2 10 | 16 1 | 1 19 | 11 3 | 1 58 | 11 24 | 1 41 | 19 31 | 1 44 | 1 36 | 0 40 | 14 14 | 1 45 | 6 24 | 10 25 | 23 42 | 23 42 | 23 58 | | n.a. |
| M28 | 9s 4 | 3n30 | 5n 3 | 18s14 | 2s12 | 15s38 | 1s20 | 11s 8 | 1n58 | 11n26 | 1n41 | 19n32 | 1n44 | 1s35 | 0s40 | 14n14 | 1s45 | 6n25 | 10s25 | 23n42 | 23n42 | 23n58 | | n.a. |

Julian Day Number = 1690773.5, Delta T = 03h10m36s
Ecliptic obliquity = 23°42'19, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°13'24, Lahiri = - 5°06'23 Julian Calendar 1 Feb. 84 BCE == Greg. Calendar 30 Jan. 084 BCE

The year -83 astronomical counting style corresponds to year 084 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 84 BCE
# geocentric

## MARCH 84 BCE (-83) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 10 23 35 | 7♓54'07 | 15♎39 | 17♒51 | 23♒ 5 | 4♏ 9 | 4°R37 | 10°R 9 | 27♓39 | 12♉57 | 14♉32 | 0°R55 | 0♋ 9 | 19♋26 | n.a. | T 1 |
| W 2 | 10 27 31 | 8°53'14 | 28°42 | 19°29 | 24°19 | 4°21 | 4♍29 | 10♌ 5 | 27°43 | 12°58 | 14°33 | 0♋47 | 0° 5 | 19°33 | n.a. | W 2 |
| T 3 | 10 31 28 | 9°52'18 | 11♏58 | 21° 8 | 25°33 | 4°32 | 4°22 | 10° 1 | 27°46 | 12°59 | 14°34 | 0°41 | 0° 2 | 19°39 | n.a. | T 3 |
| F 4 | 10 35 24 | 10°51'21 | 25°26 | 22°49 | 26°47 | 4°42 | 4°14 | 9°57 | 27°49 | 13° 1 | 14°34 | 0°38 | 29♊59 | 19°46 | n.a. | F 4 |
| S 5 | 10 39 21 | 11°50'22 | 9♐ 8 | 24°31 | 28° 1 | 4°52 | 4° 6 | 9°54 | 27°52 | 13° 2 | 14°35 | 0°D37 | 29°56 | 19°52 | n.a. | S 5 |
| S 6 | 10 43 18 | 12°49'21 | 23° 5 | 26°14 | 29°15 | 5° 2 | 3°59 | 9°50 | 27°56 | 13° 3 | 14°36 | 0°R37 | 29°53 | 19°59 | n.a. | S 6 |
| M 7 | 10 47 14 | 13°48'19 | 7♑16 | 27°59 | 0♓29 | 5°10 | 3°51 | 9°46 | 27°59 | 13° 4 | 14°36 | 0°37 | 29°50 | 20° 6 | n.a. | M 7 |
| T 8 | 10 51 11 | 14°47'14 | 21°41 | 29°45 | 1°43 | 5°19 | 3°44 | 9°43 | 28° 3 | 13° 6 | 14°37 | 0°36 | 29°46 | 20°12 | n.a. | T 8 |
| W 9 | 10 55 7 | 15°46'08 | 6♒18 | 1♓33 | 2°58 | 5°26 | 3°36 | 9°40 | 28° 6 | 13° 7 | 14°38 | 0°32 | 29°43 | 20°19 | n.a. | W 9 |
| T 10 | 10 59 4 | 16°45'00 | 21° 0 | 3°22 | 4°12 | 5°33 | 3°29 | 9°36 | 28° 9 | 13° 8 | 14°39 | 0°25 | 29°40 | 20°26 | n.a. | T 10 |
| F 11 | 11 3 0 | 17°43'49 | 5♓41 | 5°13 | 5°26 | 5°39 | 3°22 | 9°33 | 28°13 | 13°10 | 14°40 | 0°16 | 29°37 | 20°32 | n.a. | F 11 |
| S 12 | 11 6 57 | 18°42'37 | 20°14 | 7° 5 | 6°40 | 5°45 | 3°14 | 9°30 | 28°16 | 13°11 | 14°40 | 0° 5 | 29°34 | 20°39 | n.a. | S 12 |
| S 13 | 11 10 53 | 19°41'22 | 4♈32 | 8°58 | 7°54 | 5°49 | 3° 7 | 9°27 | 28°19 | 13°13 | 14°41 | 29♊53 | 29°30 | 20°46 | n.a. | S 13 |
| M14 | 11 14 50 | 20°40'06 | 18°28 | 10°54 | 9° 8 | 5°54 | 3° 0 | 9°24 | 28°23 | 13°14 | 14°42 | 29°42 | 29°27 | 20°52 | n.a. | M14 |
| T 15 | 11 18 47 | 21°38'47 | 1♉59 | 12°50 | 10°22 | 5°57 | 2°53 | 9°21 | 28°26 | 13°16 | 14°43 | 29°33 | 29°24 | 20°59 | n.a. | T 15 |
| W16 | 11 22 43 | 22°37'26 | 15° 4 | 14°48 | 11°36 | 6° 0 | 2°46 | 9°18 | 28°30 | 13°17 | 14°44 | 29°26 | 29°21 | 21° 6 | n.a. | W16 |
| T 17 | 11 26 40 | 23°36'03 | 27°46 | 16°48 | 12°50 | 6° 2 | 2°39 | 9°15 | 28°33 | 13°19 | 14°45 | 29°21 | 29°18 | 21°12 | n.a. | T 17 |
| F 18 | 11 30 36 | 24°34'37 | 10♊ 6 | 18°48 | 14° 4 | 6° 3 | 2°32 | 9°13 | 28°37 | 13°20 | 14°46 | 29°19 | 29°15 | 21°19 | n.a. | F 18 |
| S 19 | 11 34 33 | 25°33'09 | 22°10 | 20°51 | 15°18 | 6°R 4 | 2°26 | 9°10 | 28°40 | 13°22 | 14°47 | 29°19 | 29°11 | 21°26 | n.a. | S 19 |
| S 20 | 11 38 29 | 26°31'39 | 4♋ 4 | 22°54 | 16°32 | 6° 4 | 2°19 | 9° 8 | 28°43 | 13°24 | 14°48 | 29°19 | 29° 8 | 21°32 | n.a. | S 20 |
| M21 | 11 42 26 | 27°30'07 | 15°52 | 24°59 | 17°46 | 6° 3 | 2°13 | 9° 5 | 28°47 | 13°25 | 14°49 | 29°18 | 29° 5 | 21°39 | n.a. | M21 |
| T 22 | 11 46 22 | 28°28'33 | 27°41 | 27° 4 | 19° 0 | 6° 1 | 2° 6 | 9° 3 | 28°50 | 13°27 | 14°50 | 29°16 | 29° 2 | 21°46 | n.a. | T 22 |
| W23 | 11 50 19 | 29°26'56 | 9♌35 | 29°11 | 20°14 | 5°59 | 2° 0 | 9° 1 | 28°54 | 13°29 | 14°51 | 29°11 | 28°59 | 21°52 | n.a. | W23 |
| T 24 | 11 54 16 | 0♈25'17 | 21°37 | 1♈18 | 21°28 | 5°56 | 1°54 | 8°59 | 28°57 | 13°31 | 14°52 | 29° 4 | 28°56 | 21°59 | n.a. | T 24 |
| F 25 | 11 58 12 | 1°23'36 | 3♍52 | 3°26 | 22°41 | 5°52 | 1°48 | 8°57 | 29° 1 | 13°32 | 14°53 | 28°54 | 28°52 | 22° 6 | n.a. | F 25 |
| S 26 | 12 2 9 | 2°21'53 | 16°22 | 5°34 | 23°55 | 5°47 | 1°42 | 8°55 | 29° 4 | 13°34 | 14°54 | 28°42 | 28°49 | 22°12 | n.a. | S 26 |
| S 27 | 12 6 5 | 3°20'08 | 29° 6 | 7°42 | 25° 9 | 5°42 | 1°36 | 8°53 | 29° 7 | 13°36 | 14°55 | 28°29 | 28°46 | 22°19 | n.a. | S 27 |
| M28 | 12 10 2 | 4°18'21 | 12♎ 5 | 9°51 | 26°23 | 5°36 | 1°31 | 8°51 | 29°11 | 13°38 | 14°56 | 28°16 | 28°43 | 22°26 | n.a. | M28 |
| T 29 | 12 13 58 | 5°16'32 | 25°18 | 11°58 | 27°37 | 5°29 | 1°25 | 8°50 | 29°14 | 13°39 | 14°57 | 28° 4 | 28°40 | 22°32 | n.a. | T 29 |
| W30 | 12 17 55 | 6°14'41 | 8♏43 | 14° 5 | 28°51 | 5°21 | 1°20 | 8°48 | 29°18 | 13°41 | 14°58 | 27°55 | 28°36 | 22°39 | n.a. | W30 |
| T 31 | 12 21 51 | 7♈12'49 | 22♏19 | 16♈11 | 0♈ 5 | 5♏13 | 1♍15 | 8♌47 | 29♓21 | 13♉43 | 14♉59 | 27♊49 | 28♊33 | 22♋46 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 8s42 | 1s44 | 4n53 | 17s46 | 2s14 | 15s15 | 1s21 | 11s12 | 1n57 | 11n29 | 1n41 | 19n34 | 1n44 | 1s33 | 0s40 | 14n14 | 1s45 | 6n25 | 10s25 | 23n42 | 23n42 | 23n58 | | | n.a. |
| W 2 | 8 20 | 6 58 | 4 28 | 17 17 | 2 15 | 14 51 | 1 22 | 11 17 | 1 57 | 11 32 | 1 41 | 19 35 | 1 44 | 1 32 | 0 40 | 14 15 | 1 44 | 6 26 | 10 25 | 23 42 | 23 42 | 23 58 | | | n.a. |
| T 3 | 7 57 | 11 58 | 3 48 | 16 45 | 2 16 | 14 26 | 1 22 | 11 21 | 1 56 | 11 35 | 1 41 | 19 36 | 1 44 | 1 31 | 0 40 | 14 15 | 1 44 | 6 26 | 10 24 | 23 42 | 23 42 | 23 58 | | | n.a. |
| F 4 | 7 35 | 16 30 | 2 55 | 16 12 | 2 16 | 14 1 | 1 23 | 11 25 | 1 56 | 11 38 | 1 41 | 19 37 | 1 44 | 1 29 | 0 40 | 14 16 | 1 44 | 6 26 | 10 24 | 23 42 | 23 42 | 23 57 | | | n.a. |
| S 5 | 7 12 | 20 14 | 1 52 | 15 38 | 2 16 | 13 36 | 1 24 | 11 29 | 1 55 | 11 41 | 1 41 | 19 38 | 1 44 | 1 28 | 0 40 | 14 16 | 1 44 | 6 27 | 10 24 | 23 42 | 23 42 | 23 57 | | | n.a. |
| S 6 | 6 49 | 22 51 | 0 40 | 15 2 | 2 15 | 13 11 | 1 24 | 11 33 | 1 54 | 11 44 | 1 41 | 19 39 | 1 44 | 1 27 | 0 40 | 14 16 | 1 44 | 6 27 | 10 24 | 23 42 | 23 42 | 23 57 | | | n.a. |
| M 7 | 6 26 | 24 5 | 0s35 | 14 24 | 2 14 | 12 45 | 1 25 | 11 36 | 1 54 | 11 46 | 1 41 | 19 40 | 1 44 | 1 25 | 0 40 | 14 17 | 1 44 | 6 28 | 10 23 | 23 42 | 23 42 | 23 57 | | | n.a. |
| T 8 | 6 3 | 23 44 | 1 49 | 13 45 | 2 12 | 12 18 | 1 26 | 11 40 | 1 53 | 11 49 | 1 41 | 19 40 | 1 43 | 1 24 | 0 40 | 14 17 | 1 44 | 6 28 | 10 23 | 23 42 | 23 42 | 23 57 | | | n.a. |
| W 9 | 5 40 | 21 46 | 2 57 | 13 4 | 2 10 | 11 52 | 1 26 | 11 43 | 1 52 | 11 52 | 1 41 | 19 41 | 1 43 | 1 22 | 0 40 | 14 18 | 1 44 | 6 29 | 10 23 | 23 42 | 23 42 | 23 57 | | | n.a. |
| T 10 | 5 17 | 18 20 | 3 53 | 12 21 | 2 7 | 11 25 | 1 26 | 11 46 | 1 51 | 11 54 | 1 41 | 19 42 | 1 43 | 1 21 | 0 40 | 14 18 | 1 44 | 6 29 | 10 23 | 23 42 | 23 42 | 23 56 | | | n.a. |
| F 11 | 4 54 | 13 46 | 4 34 | 11 37 | 2 4 | 10 58 | 1 27 | 11 49 | 1 51 | 11 57 | 1 41 | 19 43 | 1 43 | 1 20 | 0 40 | 14 19 | 1 44 | 6 30 | 10 23 | 23 42 | 23 42 | 23 56 | | | n.a. |
| S 12 | 4 31 | 8 27 | 4 57 | 10 52 | 2 0 | 10 30 | 1 27 | 11 52 | 1 50 | 12 0 | 1 41 | 19 44 | 1 43 | 1 18 | 0 40 | 14 19 | 1 44 | 6 30 | 10 22 | 23 42 | 23 42 | 23 56 | | | n.a. |
| S 13 | 4 8 | 2 46 | 5 0 | 10 5 | 1 56 | 10 3 | 1 27 | 11 54 | 1 49 | 12 2 | 1 41 | 19 45 | 1 43 | 1 17 | 0 40 | 14 20 | 1 44 | 6 30 | 10 22 | 23 42 | 23 42 | 23 56 | | | n.a. |
| M14 | 3 44 | 2n55 | 4 45 | 9 16 | 1 51 | 9 35 | 1 27 | 11 56 | 1 48 | 12 5 | 1 41 | 19 45 | 1 43 | 1 16 | 0 40 | 14 20 | 1 44 | 6 31 | 10 22 | 23 42 | 23 42 | 23 55 | | | n.a. |
| T 15 | 3 21 | 8 19 | 4 15 | 8 26 | 1 46 | 9 6 | 1 27 | 11 58 | 1 47 | 12 7 | 1 41 | 19 46 | 1 43 | 1 14 | 0 40 | 14 21 | 1 44 | 6 31 | 10 22 | 23 42 | 23 42 | 23 55 | | | n.a. |
| W16 | 2 58 | 13 10 | 3 31 | 7 35 | 1 40 | 8 38 | 1 27 | 12 0 | 1 46 | 12 10 | 1 41 | 19 47 | 1 43 | 1 13 | 0 40 | 14 21 | 1 44 | 6 32 | 10 21 | 23 42 | 23 42 | 23 55 | | | n.a. |
| T 17 | 2 34 | 17 18 | 2 39 | 6 42 | 1 33 | 8 9 | 1 27 | 12 2 | 1 45 | 12 12 | 1 41 | 19 48 | 1 43 | 1 11 | 0 40 | 14 22 | 1 44 | 6 32 | 10 21 | 23 42 | 23 42 | 23 55 | | | n.a. |
| F 18 | 2 11 | 20 34 | 1 40 | 5 48 | 1 26 | 7 40 | 1 27 | 12 3 | 1 44 | 12 15 | 1 40 | 19 48 | 1 43 | 1 10 | 0 40 | 14 22 | 1 44 | 6 33 | 10 21 | 23 42 | 23 42 | 23 55 | | | n.a. |
| S 19 | 1 47 | 22 51 | 0 38 | 4 52 | 1 19 | 7 11 | 1 27 | 12 5 | 1 43 | 12 17 | 1 40 | 19 49 | 1 43 | 1 9 | 0 40 | 14 23 | 1 44 | 6 33 | 10 21 | 23 42 | 23 42 | 23 54 | | | n.a. |
| S 20 | 1 24 | 24 4 | 0n25 | 3 56 | 1 11 | 6 42 | 1 26 | 12 6 | 1 41 | 12 19 | 1 40 | 19 49 | 1 43 | 1 7 | 0 40 | 14 23 | 1 43 | 6 34 | 10 21 | 23 42 | 23 42 | 23 54 | | | n.a. |
| M21 | 1 0 | 24 11 | 1 27 | 2 58 | 1 2 | 6 12 | 1 26 | 12 7 | 1 40 | 12 22 | 1 40 | 19 50 | 1 43 | 1 6 | 0 40 | 14 24 | 1 43 | 6 34 | 10 20 | 23 42 | 23 42 | 23 54 | | | n.a. |
| T 22 | 0 37 | 23 13 | 2 24 | 1 59 | 0 53 | 5 43 | 1 26 | 12 7 | 1 39 | 12 24 | 1 40 | 19 51 | 1 43 | 1 5 | 0 40 | 14 25 | 1 43 | 6 35 | 10 20 | 23 42 | 23 42 | 23 53 | | | n.a. |
| W23 | 0 13 | 21 12 | 3 16 | 1 0 | 0 44 | 5 13 | 1 25 | 12 8 | 1 37 | 12 26 | 1 40 | 19 51 | 1 43 | 1 3 | 0 40 | 14 25 | 1 43 | 6 35 | 10 20 | 23 42 | 23 42 | 23 53 | | | n.a. |
| T 24 | 0n10 | 18 13 | 3 59 | 0n 0 | 0 34 | 4 43 | 1 25 | 12 8 | 1 36 | 12 28 | 1 40 | 19 52 | 1 43 | 1 2 | 0 40 | 14 26 | 1 43 | 6 36 | 10 20 | 23 42 | 23 42 | 23 53 | | | n.a. |
| F 25 | 0 34 | 14 25 | 4 33 | 1 1 | 0 24 | 4 13 | 1 24 | 12 8 | 1 34 | 12 30 | 1 40 | 19 52 | 1 43 | 1 0 | 0 40 | 14 26 | 1 43 | 6 36 | 10 20 | 23 42 | 23 42 | 23 53 | | | n.a. |
| S 26 | 0 57 | 9 56 | 4 53 | 2 2 | 0 14 | 3 43 | 1 24 | 12 8 | 1 33 | 12 32 | 1 40 | 19 53 | 1 42 | 0 59 | 0 40 | 14 27 | 1 43 | 6 37 | 10 19 | 23 42 | 23 42 | 23 52 | | | n.a. |
| S 27 | 1 20 | 4 56 | 5 0 | 3 3 | 0 3 | 3 13 | 1 23 | 12 8 | 1 31 | 12 34 | 1 39 | 19 53 | 1 42 | 0 58 | 0 40 | 14 27 | 1 43 | 6 37 | 10 19 | 23 42 | 23 42 | 23 52 | | | n.a. |
| M28 | 1 44 | 0s22 | 4 52 | 4 4 | 0n 8 | 2 42 | 1 22 | 12 8 | 1 29 | 12 36 | 1 39 | 19 53 | 1 42 | 0 56 | 0 40 | 14 28 | 1 43 | 6 38 | 10 19 | 23 42 | 23 42 | 23 52 | | | n.a. |
| T 29 | 2 7 | 5 45 | 4 28 | 5 4 | 0 19 | 2 12 | 1 21 | 12 7 | 1 28 | 12 38 | 1 39 | 19 54 | 1 42 | 0 55 | 0 40 | 14 29 | 1 43 | 6 38 | 10 19 | 23 41 | 23 42 | 23 51 | | | n.a. |
| W30 | 2 30 | 10 58 | 3 48 | 6 4 | 0 30 | 1 41 | 1 20 | 12 6 | 1 26 | 12 39 | 1 39 | 19 54 | 1 42 | 0 54 | 0 40 | 14 29 | 1 43 | 6 38 | 10 19 | 23 41 | 23 42 | 23 51 | | | n.a. |
| T 31 | 2n54 | 15s43 | 2n56 | 7n 3 | 0n40 | 1s11 | 1s19 | 12s 5 | 1n24 | 12n41 | 1n39 | 19n54 | 1n42 | 0s52 | 0s40 | 14n30 | 1s43 | 6n39 | 10s18 | 23n41 | 23n42 | 23n51 | | | n.a. |

Julian Day Number = 1690801.5, Delta T = 03h10m35s
Ecliptic obliquity = 23°42'19, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°13'20, Lahiri = - 5°06'19 Julian Calendar 1 March 84 BCE == Greg. Calendar 27 Feb. 084 BCE

The year -83 astronomical counting style corresponds to year 084 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 84 BCE
# geocentric

## APRIL 84 BCE (-83) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 12 25 48 | 8♈10'55 | 6♐ 3 | 18♈15 | 1♈19 | 5°R 4 | 1°R10 | 8°R45 | 29♓25 | 13♉45 | 15♉ 0 | 27°R45 | 28♊30 | 22♋52 | n.a. | F 1 |
| S 2 | 12 29 44 | 9° 9'00 | 19°55 | 20°18 | 2°32 | 4♏54 | 1♍ 5 | 8♌44 | 29°28 | 13°47 | 15° 2 | 27♊43 | 28°27 | 22°59 | n.a. | S 2 |
| S 3 | 12 33 41 | 10° 7'04 | 3♑54 | 22°19 | 3°46 | 4°43 | 1° 0 | 8°43 | 29°31 | 13°49 | 15° 3 | 27°43 | 28°24 | 23° 6 | n.a. | S 3 |
| M 4 | 12 37 38 | 11° 5'05 | 18° 0 | 24°17 | 5° 0 | 4°32 | 0°56 | 8°42 | 29°35 | 13°51 | 15° 4 | 27°43 | 28°21 | 23°12 | n.a. | M 4 |
| T 5 | 12 41 34 | 12° 3'06 | 2♒11 | 26°13 | 6°14 | 4°20 | 0°51 | 8°41 | 29°38 | 13°53 | 15° 5 | 27°42 | 28°17 | 23°19 | n.a. | T 5 |
| W 6 | 12 45 31 | 13° 1'05 | 16°27 | 28° 7 | 7°28 | 4° 7 | 0°47 | 8°40 | 29°41 | 13°55 | 15° 6 | 27°39 | 28°14 | 23°25 | n.a. | W 6 |
| T 7 | 12 49 27 | 13°59'03 | 0♓45 | 29°57 | 8°42 | 3°53 | 0°43 | 8°40 | 29°45 | 13°57 | 15° 7 | 27°32 | 28°11 | 23°32 | n.a. | T 7 |
| F 8 | 12 53 24 | 14°56'59 | 15° 1 | 1♉45 | 9°56 | 3°39 | 0°39 | 8°39 | 29°48 | 13°59 | 15° 9 | 27°24 | 28° 8 | 23°39 | n.a. | F 8 |
| S 9 | 12 57 20 | 15°54'53 | 29° 9 | 3°29 | 11° 9 | 3°24 | 0°35 | 8°39 | 29°52 | 14° 1 | 15°10 | 27°13 | 28° 5 | 23°45 | n.a. | S 9 |
| S 10 | 13 1 17 | 16°52'46 | 13♈ 5 | 5°10 | 12°23 | 3° 9 | 0°32 | 8°38 | 29°55 | 14° 3 | 15°11 | 27° 2 | 28° 1 | 23°52 | n.a. | S 10 |
| M11 | 13 5 13 | 17°50'37 | 26°44 | 6°47 | 13°37 | 2°53 | 0°28 | 8°38 | 29°58 | 14° 5 | 15°12 | 26°52 | 27°58 | 23°59 | n.a. | M11 |
| T 12 | 13 9 10 | 18°48'27 | 10♉ 3 | 8°21 | 14°51 | 2°36 | 0°25 | 8°38 | 0♈ 1 | 14° 7 | 15°14 | 26°43 | 27°55 | 24° 5 | n.a. | T 12 |
| W13 | 13 13 7 | 19°46'15 | 23° 1 | 9°51 | 16° 5 | 2°19 | 0°22 | 8°D38 | 0° 5 | 14° 9 | 15°15 | 26°36 | 27°52 | 24°12 | n.a. | W13 |
| T 14 | 13 17 3 | 20°44'02 | 5♊39 | 11°18 | 17°18 | 2° 2 | 0°19 | 8°38 | 0° 8 | 14°11 | 15°16 | 26°31 | 27°49 | 24°19 | n.a. | T 14 |
| F 15 | 13 21 0 | 21°41'47 | 17°58 | 12°41 | 18°32 | 1°44 | 0°17 | 8°38 | 0°11 | 14°13 | 15°17 | 26°29 | 27°46 | 24°25 | n.a. | F 15 |
| S 16 | 13 24 56 | 22°39'30 | 0♋ 3 | 14° 0 | 19°46 | 1°25 | 0°14 | 8°38 | 0°15 | 14°15 | 15°19 | 26°D29 | 27°42 | 24°32 | n.a. | S 16 |
| S 17 | 13 28 53 | 23°37'12 | 11°58 | 15°15 | 21° 0 | 1° 6 | 0°12 | 8°38 | 0°18 | 14°17 | 15°20 | 26°30 | 27°39 | 24°39 | n.a. | S 17 |
| M18 | 13 32 49 | 24°34'51 | 23°47 | 16°27 | 22°13 | 0°47 | 0° 9 | 8°39 | 0°21 | 14°19 | 15°21 | 26°R30 | 27°36 | 24°45 | n.a. | M18 |
| T 19 | 13 36 46 | 25°32'30 | 5♌37 | 17°34 | 23°27 | 0°27 | 0° 7 | 8°39 | 0°24 | 14°22 | 15°23 | 26°29 | 27°33 | 24°52 | n.a. | T 19 |
| W20 | 13 40 42 | 26°30'06 | 17°33 | 18°37 | 24°41 | 0° 7 | 0° 6 | 8°40 | 0°27 | 14°24 | 15°24 | 26°27 | 27°30 | 24°59 | n.a. | W20 |
| T 21 | 13 44 39 | 27°27'41 | 29°39 | 19°37 | 25°55 | 29♎47 | 0° 4 | 8°41 | 0°31 | 14°26 | 15°25 | 26°23 | 27°27 | 25° 5 | n.a. | T 21 |
| F 22 | 13 48 36 | 28°25'14 | 12♍ 0 | 20°32 | 27° 8 | 29°27 | 0° 3 | 8°42 | 0°34 | 14°28 | 15°27 | 26°16 | 27°23 | 25°12 | n.a. | F 22 |
| S 23 | 13 52 32 | 29°22'46 | 24°38 | 21°23 | 28°22 | 29° 6 | 0° 1 | 8°43 | 0°37 | 14°30 | 15°28 | 26° 8 | 27°20 | 25°19 | n.a. | S 23 |
| S 24 | 13 56 29 | 0♉20'16 | 7♎35 | 22° 9 | 29°36 | 28°46 | 0° 0 | 8°44 | 0°40 | 14°32 | 15°29 | 25°58 | 27°17 | 25°25 | n.a. | S 24 |
| M25 | 14 0 25 | 1°17'45 | 20°52 | 22°52 | 0♉49 | 28°25 | 29♌59 | 8°45 | 0°43 | 14°35 | 15°31 | 25°49 | 27°14 | 25°32 | n.a. | M25 |
| T 26 | 14 4 22 | 2°15'13 | 4♏26 | 23°29 | 2° 3 | 28° 5 | 29°58 | 8°46 | 0°46 | 14°37 | 15°32 | 25°41 | 27°11 | 25°39 | n.a. | T 26 |
| W27 | 14 8 18 | 3°12'39 | 18°14 | 24° 3 | 3°17 | 27°44 | 29°58 | 8°47 | 0°49 | 14°39 | 15°33 | 25°34 | 27° 7 | 25°45 | n.a. | W27 |
| T 28 | 14 12 15 | 4°10'05 | 2♐15 | 24°32 | 4°31 | 27°24 | 29°58 | 8°49 | 0°52 | 14°41 | 15°35 | 25°30 | 27° 4 | 25°52 | n.a. | T 28 |
| F 29 | 14 16 11 | 5° 7'30 | 16°23 | 24°56 | 5°44 | 27° 3 | 29°57 | 8°50 | 0°55 | 14°43 | 15°36 | 25°27 | 27° 1 | 25°59 | n.a. | F 29 |
| S 30 | 14 20 8 | 6♉ 4'54 | 0♑35 | 25♉15 | 6♉58 | 26♎43 | 29°D57 | 8♌52 | 0♈58 | 14♉46 | 15♉37 | 25°D27 | 26♊58 | 26♋ 5 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 3n17 | 19s43 | 1n52 | 8n 1 | 0n51 | 0s40 | 1s18 | 12s 4 | 1n22 | 12n43 | 1n39 | 19n55 | 1n42 | 0s51 | 0s40 | 14n30 | 1s43 | 6n39 | 10s18 | 23n41 | 23n42 | 23n50 | | n.a. |
| S 2 | 3 40 | 22 38 | 0 41 | 8 58 | 1 2 | 0 10 | 1 17 | 12 2 | 1 20 | 12 44 | 1 38 | 19 55 | 1 42 | 0 49 | 0 40 | 14 31 | 1 43 | 6 40 | 10 18 | 23 41 | 23 42 | 23 50 | | n.a. |
| S 3 | 4 3 | 24 11 | 0s33 | 9 53 | 1 12 | 0n21 | 1 16 | 12 1 | 1 18 | 12 46 | 1 38 | 19 55 | 1 42 | 0 48 | 0 40 | 14 32 | 1 43 | 6 40 | 10 18 | 23 41 | 23 42 | 23 50 | | n.a. |
| M 4 | 4 26 | 24 13 | 1 45 | 10 47 | 1 22 | 0 52 | 1 15 | 11 59 | 1 16 | 12 47 | 1 38 | 19 55 | 1 42 | 0 47 | 0 40 | 14 32 | 1 43 | 6 41 | 10 18 | 23 41 | 23 42 | 23 49 | | n.a. |
| T 5 | 4 49 | 22 41 | 2 52 | 11 39 | 1 31 | 1 23 | 1 14 | 11 57 | 1 14 | 12 49 | 1 38 | 19 55 | 1 42 | 0 45 | 0 40 | 14 33 | 1 43 | 6 41 | 10 18 | 23 41 | 23 42 | 23 49 | | n.a. |
| W 6 | 5 12 | 19 42 | 3 48 | 12 29 | 1 40 | 1 53 | 1 12 | 11 55 | 1 12 | 12 50 | 1 38 | 19 56 | 1 42 | 0 44 | 0 40 | 14 33 | 1 43 | 6 42 | 10 17 | 23 41 | 23 42 | 23 49 | | n.a. |
| T 7 | 5 35 | 15 31 | 4 30 | 13 16 | 1 49 | 2 24 | 1 11 | 11 52 | 1 9 | 12 51 | 1 37 | 19 56 | 1 41 | 0 43 | 0 40 | 14 34 | 1 43 | 6 42 | 10 17 | 23 41 | 23 42 | 23 48 | | n.a. |
| F 8 | 5 57 | 10 29 | 4 55 | 14 2 | 1 57 | 2 54 | 1 10 | 11 50 | 1 7 | 12 53 | 1 37 | 19 56 | 1 41 | 0 41 | 0 40 | 14 35 | 1 43 | 6 43 | 10 17 | 23 41 | 23 42 | 23 48 | | n.a. |
| S 9 | 6 20 | 4 57 | 5 2 | 14 45 | 2 4 | 3 25 | 1 8 | 11 47 | 1 4 | 12 54 | 1 37 | 19 56 | 1 41 | 0 40 | 0 40 | 14 35 | 1 43 | 6 43 | 10 17 | 23 41 | 23 41 | 23 47 | | n.a. |
| S 10 | 6 42 | 0n46 | 4 50 | 15 26 | 2 10 | 3 55 | 1 7 | 11 44 | 1 2 | 12 55 | 1 37 | 19 56 | 1 41 | 0 39 | 0 40 | 14 36 | 1 43 | 6 44 | 10 17 | 23 40 | 23 41 | 23 47 | | n.a. |
| M11 | 7 5 | 6 21 | 4 22 | 16 4 | 2 16 | 4 26 | 1 5 | 11 41 | 0 59 | 12 56 | 1 37 | 19 56 | 1 41 | 0 37 | 0 40 | 14 37 | 1 43 | 6 44 | 10 17 | 23 40 | 23 41 | 23 47 | | n.a. |
| T 12 | 7 27 | 11 30 | 3 41 | 16 40 | 2 21 | 4 56 | 1 4 | 11 37 | 0 57 | 12 57 | 1 36 | 19 56 | 1 41 | 0 36 | 0 40 | 14 37 | 1 43 | 6 45 | 10 17 | 23 40 | 23 41 | 23 46 | | n.a. |
| W13 | 7 49 | 16 1 | 2 48 | 17 14 | 2 26 | 5 26 | 1 2 | 11 34 | 0 54 | 12 58 | 1 36 | 19 56 | 1 41 | 0 35 | 0 40 | 14 38 | 1 43 | 6 45 | 10 16 | 23 40 | 23 41 | 23 46 | | n.a. |
| T 14 | 8 11 | 19 42 | 1 49 | 17 45 | 2 29 | 5 56 | 1 0 | 11 30 | 0 51 | 12 59 | 1 36 | 19 56 | 1 41 | 0 33 | 0 40 | 14 39 | 1 43 | 6 46 | 10 16 | 23 40 | 23 41 | 23 45 | | n.a. |
| F 15 | 8 33 | 22 24 | 0 45 | 18 13 | 2 32 | 6 26 | 0 59 | 11 27 | 0 49 | 12 59 | 1 36 | 19 55 | 1 41 | 0 32 | 0 40 | 14 39 | 1 42 | 6 46 | 10 16 | 23 39 | 23 41 | 23 45 | | n.a. |
| S 16 | 8 55 | 24 1 | 0n19 | 18 40 | 2 34 | 6 56 | 0 57 | 11 23 | 0 46 | 13 0 | 1 36 | 19 55 | 1 41 | 0 31 | 0 40 | 14 40 | 1 42 | 6 47 | 10 16 | 23 39 | 23 41 | 23 44 | | n.a. |
| S 17 | 9 16 | 24 31 | 1 22 | 19 3 | 2 35 | 7 26 | 0 55 | 11 19 | 0 43 | 13 1 | 1 35 | 19 55 | 1 41 | 0 29 | 0 40 | 14 40 | 1 42 | 6 47 | 10 16 | 23 39 | 23 41 | 23 44 | | n.a. |
| M18 | 9 38 | 23 54 | 2 21 | 19 24 | 2 35 | 7 55 | 0 53 | 11 15 | 0 40 | 13 1 | 1 35 | 19 55 | 1 40 | 0 28 | 0 40 | 14 41 | 1 42 | 6 48 | 10 16 | 23 40 | 23 41 | 23 44 | | n.a. |
| T 19 | 9 59 | 22 12 | 3 13 | 19 43 | 2 34 | 8 25 | 0 51 | 11 11 | 0 37 | 13 2 | 1 35 | 19 55 | 1 40 | 0 27 | 0 40 | 14 42 | 1 42 | 6 48 | 10 16 | 23 39 | 23 41 | 23 43 | | n.a. |
| W20 | 10 20 | 19 31 | 3 58 | 20 0 | 2 32 | 8 54 | 0 50 | 11 7 | 0 34 | 13 2 | 1 35 | 19 54 | 1 40 | 0 26 | 0 40 | 14 42 | 1 42 | 6 49 | 10 16 | 23 39 | 23 41 | 23 43 | | n.a. |
| T 21 | 10 41 | 15 58 | 4 33 | 20 14 | 2 30 | 9 23 | 0 48 | 11 2 | 0 31 | 13 3 | 1 34 | 19 54 | 1 40 | 0 24 | 0 40 | 14 43 | 1 42 | 6 49 | 10 15 | 23 39 | 23 41 | 23 42 | | n.a. |
| F 22 | 11 2 | 11 41 | 4 56 | 20 25 | 2 26 | 9 52 | 0 46 | 10 58 | 0 28 | 13 3 | 1 34 | 19 54 | 1 40 | 0 23 | 0 40 | 14 44 | 1 42 | 6 50 | 10 15 | 23 39 | 23 41 | 23 42 | | n.a. |
| S 23 | 11 23 | 6 49 | 5 5 | 20 35 | 2 21 | 10 20 | 0 44 | 10 53 | 0 25 | 13 3 | 1 34 | 19 53 | 1 40 | 0 22 | 0 40 | 14 44 | 1 42 | 6 50 | 10 15 | 23 39 | 23 41 | 23 41 | | n.a. |
| S 24 | 11 43 | 1 32 | 4 59 | 20 42 | 2 16 | 10 48 | 0 42 | 10 49 | 0 22 | 13 3 | 1 34 | 19 53 | 1 40 | 0 21 | 0 40 | 14 45 | 1 42 | 6 51 | 10 15 | 23 39 | 23 41 | 23 41 | | n.a. |
| M25 | 12 3 | 3s57 | 4 37 | 20 47 | 2 10 | 11 16 | 0 39 | 10 45 | 0 19 | 13 3 | 1 34 | 19 53 | 1 40 | 0 19 | 0 40 | 14 46 | 1 42 | 6 51 | 10 15 | 23 38 | 23 41 | 23 40 | | n.a. |
| T 26 | 12 23 | 9 23 | 3 59 | 20 49 | 2 2 | 11 44 | 0 37 | 10 40 | 0 15 | 13 3 | 1 33 | 19 52 | 1 40 | 0 18 | 0 40 | 14 46 | 1 42 | 6 51 | 10 15 | 23 38 | 23 40 | 23 40 | | n.a. |
| W27 | 12 43 | 14 28 | 3 6 | 20 50 | 1 54 | 12 12 | 0 35 | 10 36 | 0 12 | 13 3 | 1 33 | 19 52 | 1 39 | 0 17 | 0 40 | 14 47 | 1 42 | 6 52 | 10 15 | 23 38 | 23 40 | 23 39 | | n.a. |
| T 28 | 13 3 | 18 51 | 2 2 | 20 48 | 1 45 | 12 39 | 0 33 | 10 31 | 0 9 | 13 3 | 1 33 | 19 51 | 1 39 | 0 16 | 0 40 | 14 48 | 1 42 | 6 52 | 10 15 | 23 38 | 23 40 | 23 39 | | n.a. |
| F 29 | 13 22 | 22 12 | 0 49 | 20 44 | 1 34 | 13 6 | 0 31 | 10 27 | 0 6 | 13 3 | 1 33 | 19 51 | 1 39 | 0 15 | 0 40 | 14 48 | 1 42 | 6 53 | 10 15 | 23 38 | 23 40 | 23 38 | | n.a. |
| S 30 | 13n42 | 24s10 | 0s28 | 20n38 | 1n23 | 13n32 | 0s29 | 10s22 | 0n 2 | 13n 3 | 1n32 | 19n50 | 1n39 | 0s13 | 0s40 | 14n49 | 1s42 | 6n53 | 10s15 | 23n38 | 23n40 | 23n38 | | n.a. |

Julian Day Number = 1690832.5, Delta T = 03h10m34s
Ecliptic obliquity = 23°42'20, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°13'15, Lahiri = - 5°06'15 Julian Calendar 1 Apr. 84 BCE == Greg. Calendar 30 March 084 BCE

The year -83 astronomical counting style corresponds to year 084 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 84 BCE
# geocentric

## MAY 84 BCE (-83) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 14 24 5 | 7♉ 2'17 | 14♋48 | 25♉30 | 8♉12 | 26°R23 | 29♌57 | 8♌54 | 1♈ 1 | 14♉48 | 15♉39 | 25♊28 | 26♊55 | 26♋12 | n.a. | S 1 |
| M 2 | 14 28 1 | 7°59'39 | 29° 1 | 25°40 | 9°25 | 26♎ 3 | 29°58 | 8°56 | 1° 4 | 14°50 | 15°40 | 25°29 | 26°52 | 26°19 | n.a. | M 2 |
| T 3 | 14 31 58 | 8°57'00 | 13♒10 | 25°46 | 10°39 | 25°43 | 29°58 | 8°58 | 1° 7 | 14°52 | 15°41 | 25°R29 | 26°48 | 26°25 | n.a. | T 3 |
| W 4 | 14 35 54 | 9°54'21 | 27°16 | 25°R47 | 11°53 | 25°24 | 29°59 | 9° 0 | 1°10 | 14°55 | 15°43 | 25°28 | 26°45 | 26°32 | n.a. | W 4 |
| T 5 | 14 39 51 | 10°51'41 | 11♓15 | 25°44 | 13° 6 | 25° 5 | 29°59 | 9° 2 | 1°12 | 14°57 | 15°44 | 25°25 | 26°42 | 26°39 | n.a. | T 5 |
| F 6 | 14 43 47 | 11°49'01 | 25° 7 | 25°36 | 14°20 | 24°47 | 0♍ 1 | 9° 4 | 1°15 | 14°59 | 15°46 | 25°20 | 26°39 | 26°45 | n.a. | F 6 |
| S 7 | 14 47 44 | 12°46'20 | 8♈49 | 25°24 | 15°34 | 24°29 | 0° 2 | 9° 6 | 1°18 | 15° 1 | 15°47 | 25°14 | 26°36 | 26°52 | n.a. | S 7 |
| S 8 | 14 51 40 | 13°43'38 | 22°19 | 25° 8 | 16°47 | 24°11 | 0° 4 | 9° 9 | 1°21 | 15° 4 | 15°48 | 25° 7 | 26°32 | 26°59 | n.a. | S 8 |
| M 9 | 14 55 37 | 14°40'55 | 5♉34 | 24°48 | 18° 1 | 23°54 | 0° 5 | 9°11 | 1°23 | 15° 6 | 15°50 | 25° 0 | 26°29 | 27° 5 | n.a. | M 9 |
| T 10 | 14 59 34 | 15°38'12 | 18°34 | 24°25 | 19°15 | 23°38 | 0° 7 | 9°14 | 1°26 | 15° 8 | 15°51 | 24°55 | 26°26 | 27°12 | n.a. | T 10 |
| W11 | 15 3 30 | 16°35'28 | 1♊17 | 23°59 | 20°28 | 23°22 | 0° 9 | 9°17 | 1°29 | 15°10 | 15°52 | 24°50 | 26°23 | 27°19 | n.a. | W11 |
| T 12 | 15 7 27 | 17°32'43 | 13°45 | 23°30 | 21°42 | 23° 7 | 0°11 | 9°20 | 1°31 | 15°12 | 15°54 | 24°48 | 26°20 | 27°25 | n.a. | T 12 |
| F 13 | 15 11 23 | 18°29'57 | 25°58 | 22°59 | 22°56 | 22°53 | 0°13 | 9°23 | 1°34 | 15°15 | 15°55 | 24°D48 | 26°17 | 27°32 | n.a. | F 13 |
| S 14 | 15 15 20 | 19°27'11 | 8♋ 0 | 22°27 | 24°10 | 22°39 | 0°16 | 9°26 | 1°37 | 15°17 | 15°57 | 24°48 | 26°13 | 27°39 | n.a. | S 14 |
| S 15 | 15 19 16 | 20°24'24 | 19°54 | 21°54 | 25°23 | 22°26 | 0°18 | 9°29 | 1°39 | 15°19 | 15°58 | 24°50 | 26°10 | 27°45 | n.a. | S 15 |
| M16 | 15 23 13 | 21°21'36 | 1♌43 | 21°20 | 26°37 | 22°13 | 0°21 | 9°32 | 1°42 | 15°21 | 15°59 | 24°52 | 26° 7 | 27°52 | n.a. | M16 |
| T 17 | 15 27 9 | 22°18'47 | 13°34 | 20°46 | 27°51 | 22° 2 | 0°24 | 9°35 | 1°44 | 15°24 | 16° 1 | 24°53 | 26° 4 | 27°59 | n.a. | T 17 |
| W18 | 15 31 6 | 23°15'57 | 25°30 | 20°13 | 29° 4 | 21°51 | 0°27 | 9°39 | 1°47 | 15°26 | 16° 2 | 24°R53 | 26° 1 | 28° 5 | n.a. | W18 |
| T 19 | 15 35 3 | 24°13'07 | 7♍37 | 19°41 | 0♊18 | 21°41 | 0°31 | 9°42 | 1°49 | 15°28 | 16° 4 | 24°52 | 25°58 | 28°12 | n.a. | T 19 |
| F 20 | 15 38 59 | 25°10'16 | 19°59 | 19°11 | 1°31 | 21°32 | 0°34 | 9°46 | 1°51 | 15°30 | 16° 5 | 24°50 | 25°54 | 28°19 | n.a. | F 20 |
| S 21 | 15 42 56 | 26° 7'24 | 2♎40 | 18°43 | 2°45 | 21°23 | 0°38 | 9°49 | 1°54 | 15°33 | 16° 6 | 24°47 | 25°51 | 28°25 | n.a. | S 21 |
| S 22 | 15 46 52 | 27° 4'31 | 15°43 | 18°18 | 3°59 | 21°16 | 0°42 | 9°53 | 1°56 | 15°35 | 16° 8 | 24°43 | 25°48 | 28°32 | n.a. | S 22 |
| M23 | 15 50 49 | 28° 1'38 | 29° 8 | 17°57 | 5°12 | 21° 9 | 0°46 | 9°57 | 1°58 | 15°37 | 16° 9 | 24°39 | 25°45 | 28°39 | n.a. | M23 |
| T 24 | 15 54 45 | 28°58'45 | 12♏56 | 17°39 | 6°26 | 21° 3 | 0°50 | 10° 1 | 2° 0 | 15°39 | 16°10 | 24°35 | 25°42 | 28°45 | n.a. | T 24 |
| W25 | 15 58 42 | 29°55'51 | 27° 4 | 17°24 | 7°40 | 20°58 | 0°54 | 10° 5 | 2° 3 | 15°41 | 16°12 | 24°32 | 25°38 | 28°52 | n.a. | W25 |
| T 26 | 16 2 38 | 0♊52'57 | 11♐28 | 17°14 | 8°53 | 20°53 | 0°58 | 10° 9 | 2° 5 | 15°44 | 16°13 | 24°31 | 25°35 | 28°59 | n.a. | T 26 |
| F 27 | 16 6 35 | 1°50'03 | 26° 1 | 17° 9 | 10° 7 | 20°50 | 1° 3 | 10°13 | 2° 7 | 15°46 | 16°14 | 24°D30 | 25°32 | 29° 5 | n.a. | F 27 |
| S 28 | 16 10 32 | 2°47'09 | 10♋39 | 17°D 8 | 11°21 | 20°47 | 1° 8 | 10°17 | 2° 9 | 15°48 | 16°16 | 24°31 | 25°29 | 29°12 | n.a. | S 28 |
| S 29 | 16 14 28 | 3°44'14 | 25°15 | 17°11 | 12°34 | 20°45 | 1°13 | 10°21 | 2°11 | 15°50 | 16°17 | 24°32 | 25°26 | 29°19 | n.a. | S 29 |
| M30 | 16 18 25 | 4°41'20 | 9♒44 | 17°20 | 13°48 | 20°44 | 1°18 | 10°26 | 2°13 | 15°52 | 16°18 | 24°33 | 25°23 | 29°25 | n.a. | M30 |
| T 31 | 16 22 21 | 5♊38'26 | 24♒ 2 | 17♉33 | 15♊ 2 | 20°D44 | 1♍23 | 10♌30 | 2♈15 | 15♉54 | 16♉20 | 24♊34 | 25♊19 | 29♋32 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| S 1 | 14n 1 | 24s34 | 1s43 | 20n30 | 1n11 | 13n59 | 0s26 | 10s18 | 0s 1 | 13n 3 | 1n32 | 19n50 | 1n39 | 0s12 | 0s40 | 14n50 | 1s42 | 6n54 | 10s15 | 23n38 | 23n40 | 23n37 | | | n.a. |
| M 2 | 14 20 | 23 22 | 2 51 | 20 20 | 0 58 | 14 25 | 0 24 | 10 14 | 0 4 | 13 2 | 1 32 | 19 49 | 1 39 | 0 11 | 0 40 | 14 50 | 1 42 | 6 54 | 10 15 | 23 38 | 23 40 | 23 37 | | | n.a. |
| T 3 | 14 38 | 20 42 | 3 49 | 20 8 | 0 45 | 14 50 | 0 22 | 10 10 | 0 7 | 13 2 | 1 32 | 19 48 | 1 39 | 0 10 | 0 40 | 14 51 | 1 42 | 6 55 | 10 14 | 23 38 | 23 40 | 23 36 | | | n.a. |
| W 4 | 14 57 | 16 49 | 4 32 | 19 55 | 0 30 | 15 16 | 0 20 | 10 6 | 0 11 | 13 1 | 1 31 | 19 48 | 1 39 | 0 9 | 0 40 | 14 52 | 1 42 | 6 55 | 10 14 | 23 38 | 23 40 | 23 36 | | | n.a. |
| T 5 | 15 15 | 12 2 | 5 0 | 19 39 | 0 15 | 15 40 | 0 17 | 10 2 | 0 14 | 13 1 | 1 31 | 19 47 | 1 39 | 0 8 | 0 40 | 14 52 | 1 42 | 6 56 | 10 14 | 23 37 | 23 40 | 23 35 | | | n.a. |
| F 6 | 15 33 | 6 40 | 5 9 | 19 22 | 0s 0 | 16 5 | 0 15 | 9 58 | 0 17 | 13 0 | 1 31 | 19 46 | 1 39 | 0 7 | 0 40 | 14 53 | 1 42 | 6 56 | 10 14 | 23 37 | 23 40 | 23 34 | | | n.a. |
| S 7 | 15 51 | 1 4 | 5 0 | 19 3 | 0 16 | 16 29 | 0 13 | 9 54 | 0 20 | 13 0 | 1 31 | 19 46 | 1 38 | 0 5 | 0 40 | 14 54 | 1 42 | 6 56 | 10 14 | 23 37 | 23 40 | 23 34 | | | n.a. |
| S 8 | 16 8 | 4n32 | 4 35 | 18 43 | 0 33 | 16 53 | 0 10 | 9 51 | 0 23 | 12 59 | 1 30 | 19 45 | 1 38 | 0 4 | 0 40 | 14 54 | 1 42 | 6 57 | 10 14 | 23 37 | 23 40 | 23 33 | | | n.a. |
| M 9 | 16 25 | 9 50 | 3 55 | 18 22 | 0 50 | 17 16 | 0 8 | 9 47 | 0 26 | 12 58 | 1 30 | 19 44 | 1 38 | 0 3 | 0 40 | 14 55 | 1 42 | 6 57 | 10 14 | 23 37 | 23 39 | 23 33 | | | n.a. |
| T 10 | 16 42 | 14 36 | 3 4 | 18 0 | 1 7 | 17 39 | 0 5 | 9 44 | 0 30 | 12 57 | 1 30 | 19 43 | 1 38 | 0 2 | 0 40 | 14 56 | 1 42 | 6 58 | 10 14 | 23 36 | 23 39 | 23 32 | | | n.a. |
| W11 | 16 59 | 18 37 | 2 4 | 17 37 | 1 24 | 18 1 | 0 3 | 9 41 | 0 33 | 12 56 | 1 30 | 19 42 | 1 38 | 0 1 | 0 40 | 14 56 | 1 42 | 6 58 | 10 14 | 23 36 | 23 39 | 23 32 | | | n.a. |
| T 12 | 17 15 | 21 43 | 1 0 | 17 14 | 1 41 | 18 23 | 0 1 | 9 38 | 0 36 | 12 55 | 1 29 | 19 41 | 1 38 | 0 0 | 0 40 | 14 57 | 1 42 | 6 59 | 10 14 | 23 36 | 23 39 | 23 31 | | | n.a. |
| F 13 | 17 31 | 23 45 | 0n 6 | 16 50 | 1 58 | 18 44 | 0n 2 | 9 35 | 0 39 | 12 54 | 1 29 | 19 41 | 1 38 | 0n 1 | 0 40 | 14 58 | 1 42 | 6 59 | 10 14 | 23 36 | 23 39 | 23 30 | | | n.a. |
| S 14 | 17 47 | 24 39 | 1 12 | 16 26 | 2 14 | 19 5 | 0 4 | 9 33 | 0 42 | 12 53 | 1 29 | 19 40 | 1 38 | 0 2 | 0 40 | 14 58 | 1 42 | 6 59 | 10 14 | 23 36 | 23 39 | 23 30 | | | n.a. |
| S 15 | 18 3 | 24 24 | 2 13 | 16 2 | 2 29 | 19 26 | 0 6 | 9 31 | 0 45 | 12 52 | 1 29 | 19 39 | 1 38 | 0 3 | 0 40 | 14 59 | 1 42 | 7 0 | 10 14 | 23 36 | 23 39 | 23 29 | | | n.a. |
| M16 | 18 18 | 23 3 | 3 8 | 15 39 | 2 44 | 19 45 | 0 9 | 9 29 | 0 48 | 12 51 | 1 28 | 19 38 | 1 38 | 0 4 | 0 40 | 15 0 | 1 42 | 7 0 | 10 14 | 23 36 | 23 39 | 23 29 | | | n.a. |
| T 17 | 18 33 | 20 42 | 3 56 | 15 17 | 2 58 | 20 5 | 0 11 | 9 27 | 0 50 | 12 49 | 1 28 | 19 37 | 1 38 | 0 5 | 0 40 | 15 0 | 1 42 | 7 1 | 10 14 | 23 36 | 23 39 | 23 28 | | | n.a. |
| W18 | 18 48 | 17 26 | 4 33 | 14 55 | 3 11 | 20 24 | 0 14 | 9 26 | 0 53 | 12 48 | 1 28 | 19 36 | 1 37 | 0 6 | 0 40 | 15 1 | 1 42 | 7 1 | 10 14 | 23 36 | 23 39 | 23 27 | | | n.a. |
| T 19 | 19 2 | 13 25 | 4 59 | 14 35 | 3 23 | 20 42 | 0 16 | 9 24 | 0 56 | 12 47 | 1 28 | 19 35 | 1 37 | 0 7 | 0 40 | 15 2 | 1 42 | 7 1 | 10 14 | 23 36 | 23 39 | 23 27 | | | n.a. |
| F 20 | 19 16 | 8 47 | 5 12 | 14 17 | 3 34 | 21 0 | 0 18 | 9 23 | 0 59 | 12 45 | 1 27 | 19 34 | 1 37 | 0 8 | 0 40 | 15 2 | 1 42 | 7 2 | 10 14 | 23 36 | 23 38 | 23 26 | | | n.a. |
| S 21 | 19 30 | 3 40 | 5 10 | 14 0 | 3 43 | 21 17 | 0 21 | 9 23 | 1 1 | 12 44 | 1 27 | 19 33 | 1 37 | 0 9 | 0 40 | 15 3 | 1 42 | 7 2 | 10 14 | 23 36 | 23 38 | 23 25 | | | n.a. |
| S 22 | 19 43 | 1s45 | 4 53 | 13 46 | 3 52 | 21 33 | 0 23 | 9 22 | 1 4 | 12 42 | 1 27 | 19 32 | 1 37 | 0 9 | 0 41 | 15 4 | 1 42 | 7 2 | 10 14 | 23 36 | 23 38 | 23 25 | | | n.a. |
| M23 | 19 56 | 7 16 | 4 19 | 13 33 | 3 59 | 21 49 | 0 25 | 9 22 | 1 7 | 12 40 | 1 27 | 19 30 | 1 37 | 0 10 | 0 41 | 15 4 | 1 42 | 7 3 | 10 14 | 23 36 | 23 38 | 23 24 | | | n.a. |
| T 24 | 20 9 | 12 35 | 3 29 | 13 23 | 4 4 | 22 5 | 0 28 | 9 22 | 1 9 | 12 39 | 1 26 | 19 29 | 1 37 | 0 11 | 0 41 | 15 5 | 1 42 | 7 3 | 10 14 | 23 36 | 23 38 | 23 23 | | | n.a. |
| W25 | 20 22 | 17 22 | 2 25 | 13 15 | 4 8 | 22 19 | 0 30 | 9 23 | 1 12 | 12 37 | 1 26 | 19 28 | 1 37 | 0 12 | 0 41 | 15 5 | 1 42 | 7 4 | 10 14 | 23 35 | 23 38 | 23 23 | | | n.a. |
| T 26 | 20 34 | 21 14 | 1 11 | 13 9 | 4 11 | 22 33 | 0 32 | 9 23 | 1 14 | 12 35 | 1 26 | 19 27 | 1 37 | 0 13 | 0 41 | 15 6 | 1 42 | 7 4 | 10 14 | 23 35 | 23 38 | 23 22 | | | n.a. |
| F 27 | 20 45 | 23 47 | 0s 8 | 13 6 | 4 12 | 22 47 | 0 34 | 9 24 | 1 17 | 12 33 | 1 26 | 19 26 | 1 37 | 0 14 | 0 41 | 15 7 | 1 42 | 7 4 | 10 14 | 23 35 | 23 38 | 23 21 | | | n.a. |
| S 28 | 20 57 | 24 44 | 1 28 | 13 6 | 4 13 | 23 0 | 0 37 | 9 25 | 1 19 | 12 31 | 1 25 | 19 24 | 1 37 | 0 15 | 0 41 | 15 7 | 1 42 | 7 5 | 10 14 | 23 35 | 23 38 | 23 21 | | | n.a. |
| S 29 | 21 8 | 23 58 | 2 41 | 13 8 | 4 12 | 23 12 | 0 39 | 9 27 | 1 21 | 12 29 | 1 25 | 19 23 | 1 36 | 0 15 | 0 41 | 15 8 | 1 42 | 7 5 | 10 14 | 23 35 | 23 38 | 23 20 | | | n.a. |
| M30 | 21 19 | 21 36 | 3 44 | 13 12 | 4 9 | 23 23 | 0 41 | 9 28 | 1 24 | 12 27 | 1 25 | 19 22 | 1 36 | 0 16 | 0 41 | 15 9 | 1 42 | 7 5 | 10 14 | 23 36 | 23 37 | 23 19 | | | n.a. |
| T 31 | 21n29 | 17s56 | 4s32 | 13n19 | 4s 6 | 23n34 | 0n43 | 9s30 | 1s26 | 12n25 | 1n25 | 19n21 | 1n36 | 0n17 | 0s41 | 15n 9 | 1s42 | 7n 6 | 10s14 | 23n36 | 23n37 | 23n18 | | | n.a. |

Julian Day Number = 1690862.5, Delta T = 03h10m33s
Ecliptic obliquity = 23°42'19, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°13'11, Lahiri = - 5°06'11 Julian Calendar 1 May 84 BCE == Greg. Calendar 29 Apr. 084 BCE

The year -83 astronomical counting style corresponds to year 084 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 84 BCE
# geocentric

## JUNE 84 BCE (-83) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 16 26 18 | 6♊35'33 | 8♓ 8 | 17♉51 | 16♊15 | 20♎45 | 1♍28 | 10♌35 | 2♈17 | 15♉56 | 16♉21 | 24°R35 | 25♊16 | 29♋39 | n.a. | W 1 |
| T 2 | 16 30 14 | 7°32'39 | 21°59 | 18°14 | 17°29 | 20°46 | 1°34 | 10°39 | 2°19 | 15°59 | 16°22 | 24♊34 | 25°13 | 29°45 | n.a. | T 2 |
| F 3 | 16 34 11 | 8°29'46 | 5♈36 | 18°42 | 18°42 | 20°49 | 1°39 | 10°44 | 2°20 | 16° 1 | 16°24 | 24°33 | 25°10 | 29°52 | n.a. | F 3 |
| S 4 | 16 38 8 | 9°26'53 | 18°57 | 19°15 | 19°56 | 20°52 | 1°45 | 10°49 | 2°22 | 16° 3 | 16°25 | 24°31 | 25° 7 | 29°59 | n.a. | S 4 |
| S 5 | 16 42 4 | 10°24'01 | 2♉ 4 | 19°53 | 21°10 | 20°56 | 1°51 | 10°53 | 2°24 | 16° 5 | 16°26 | 24°29 | 25° 4 | 0♌ 5 | n.a. | S 5 |
| M 6 | 16 46 1 | 11°21'08 | 14°56 | 20°35 | 22°23 | 21° 0 | 1°57 | 10°58 | 2°26 | 16° 7 | 16°28 | 24°27 | 25° 0 | 0°12 | n.a. | M 6 |
| T 7 | 16 49 57 | 12°18'16 | 27°35 | 21°22 | 23°37 | 21° 6 | 2° 3 | 11° 3 | 2°27 | 16° 9 | 16°29 | 24°26 | 24°57 | 0°19 | n.a. | T 7 |
| W 8 | 16 53 54 | 13°15'25 | 10♊ 1 | 22°14 | 24°51 | 21°12 | 2°10 | 11° 8 | 2°29 | 16°11 | 16°30 | 24°25 | 24°54 | 0°25 | n.a. | W 8 |
| T 9 | 16 57 50 | 14°12'33 | 22°15 | 23°10 | 26° 4 | 21°19 | 2°16 | 11°13 | 2°31 | 16°13 | 16°31 | 24°D25 | 24°51 | 0°32 | n.a. | T 9 |
| F 10 | 17 1 47 | 15° 9'42 | 4♋19 | 24°11 | 27°18 | 21°27 | 2°23 | 11°19 | 2°32 | 16°15 | 16°33 | 24°25 | 24°48 | 0°39 | n.a. | F 10 |
| S 11 | 17 5 43 | 16° 6'51 | 16°16 | 25°16 | 28°32 | 21°35 | 2°30 | 11°24 | 2°34 | 16°17 | 16°34 | 24°25 | 24°44 | 0°45 | n.a. | S 11 |
| S 12 | 17 9 40 | 17° 4'00 | 28° 7 | 26°26 | 29°45 | 21°45 | 2°37 | 11°29 | 2°35 | 16°19 | 16°35 | 24°26 | 24°41 | 0°52 | n.a. | S 12 |
| M13 | 17 13 37 | 18° 1'10 | 9♌56 | 27°40 | 0♋59 | 21°55 | 2°44 | 11°34 | 2°36 | 16°21 | 16°36 | 24°27 | 24°38 | 0°59 | n.a. | M13 |
| T 14 | 17 17 33 | 18°58'19 | 21°46 | 28°58 | 2°13 | 22° 6 | 2°51 | 11°40 | 2°38 | 16°23 | 16°37 | 24°27 | 24°35 | 1° 5 | n.a. | T 14 |
| W15 | 17 21 30 | 19°55'29 | 3♍42 | 0♊21 | 3°26 | 22°17 | 2°58 | 11°45 | 2°39 | 16°25 | 16°39 | 24°28 | 24°32 | 1°12 | n.a. | W15 |
| T 16 | 17 25 26 | 20°52'39 | 15°48 | 1°47 | 4°40 | 22°29 | 3° 6 | 11°51 | 2°40 | 16°27 | 16°40 | 24°R28 | 24°29 | 1°19 | n.a. | T 16 |
| F 17 | 17 29 23 | 21°49'49 | 28° 8 | 3°18 | 5°54 | 22°42 | 3°13 | 11°57 | 2°42 | 16°29 | 16°41 | 24°28 | 24°25 | 1°25 | n.a. | F 17 |
| S 18 | 17 33 19 | 22°46'59 | 10♎47 | 4°53 | 7° 7 | 22°56 | 3°21 | 12° 2 | 2°43 | 16°31 | 16°42 | 24°28 | 24°22 | 1°32 | n.a. | S 18 |
| S 19 | 17 37 16 | 23°44'09 | 23°48 | 6°31 | 8°21 | 23°10 | 3°29 | 12° 8 | 2°44 | 16°33 | 16°43 | 24°28 | 24°19 | 1°39 | n.a. | S 19 |
| M20 | 17 41 12 | 24°41'20 | 7♏14 | 8°13 | 9°35 | 23°25 | 3°37 | 12°14 | 2°45 | 16°35 | 16°44 | 24°D28 | 24°16 | 1°46 | n.a. | M20 |
| T 21 | 17 45 9 | 25°38'31 | 21° 5 | 9°59 | 10°48 | 23°40 | 3°45 | 12°20 | 2°46 | 16°36 | 16°46 | 24°28 | 24°13 | 1°52 | n.a. | T 21 |
| W22 | 17 49 6 | 26°35'43 | 5♐22 | 11°47 | 12° 2 | 23°57 | 3°53 | 12°26 | 2°47 | 16°38 | 16°47 | 24°28 | 24°10 | 1°59 | n.a. | W22 |
| T 23 | 17 53 2 | 27°32'56 | 19°59 | 13°39 | 13°15 | 24°13 | 4° 1 | 12°32 | 2°48 | 16°40 | 16°48 | 24°R28 | 24° 6 | 2° 6 | n.a. | T 23 |
| F 24 | 17 56 59 | 28°30'09 | 4♑52 | 15°34 | 14°29 | 24°31 | 4° 9 | 12°38 | 2°49 | 16°42 | 16°49 | 24°28 | 24° 3 | 2°12 | n.a. | F 24 |
| S 25 | 18 0 55 | 29°27'23 | 19°52 | 17°31 | 15°43 | 24°49 | 4°18 | 12°44 | 2°50 | 16°44 | 16°50 | 24°28 | 24° 0 | 2°19 | n.a. | S 25 |
| S 26 | 18 4 52 | 0♋24'38 | 4♒51 | 19°30 | 16°56 | 25° 7 | 4°26 | 12°50 | 2°50 | 16°45 | 16°51 | 24°27 | 23°57 | 2°26 | n.a. | S 26 |
| M27 | 18 8 48 | 1°21'53 | 19°42 | 21°32 | 18°10 | 25°26 | 4°35 | 12°56 | 2°51 | 16°47 | 16°52 | 24°27 | 23°54 | 2°32 | n.a. | M27 |
| T 28 | 18 12 45 | 2°19'10 | 4♓17 | 23°34 | 19°23 | 25°46 | 4°44 | 13° 2 | 2°52 | 16°49 | 16°53 | 24°26 | 23°50 | 2°39 | n.a. | T 28 |
| W29 | 18 16 42 | 3°16'28 | 18°32 | 25°38 | 20°37 | 26° 6 | 4°53 | 13° 8 | 2°52 | 16°50 | 16°54 | 24°25 | 23°47 | 2°46 | n.a. | W29 |
| T 30 | 18 20 38 | 4♋13'47 | 2♈25 | 27♊43 | 21♋51 | 26♎27 | 5♍ 2 | 13♌15 | 2♈53 | 16♉52 | 16♉55 | 24°D25 | 23♊44 | 2♌52 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 21n39 | 13s17 | 5s 3 | 13n28 | 4s 2 | 23n44 | 0n45 | 9s33 | 1s28 | 12n23 | 1n25 | 19n19 | 1n36 | 0n18 | 0s41 | 15n10 | 1s42 | 7n 6 | 10s14 | 23n36 | 23n37 | 23n18 | | n.a. |
| T 2 | 21 49 | 8 2 | 5 15 | 13 40 | 3 56 | 23 54 | 0 47 | 9 35 | 1 30 | 12 21 | 1 24 | 19 18 | 1 36 | 0 18 | 0 41 | 15 10 | 1 42 | 7 6 | 10 14 | 23 36 | 23 37 | 23 17 | | n.a. |
| F 3 | 21 58 | 2 29 | 5 10 | 13 54 | 3 50 | 24 2 | 0 49 | 9 38 | 1 32 | 12 19 | 1 24 | 19 17 | 1 36 | 0 19 | 0 41 | 15 11 | 1 42 | 7 7 | 10 14 | 23 35 | 23 37 | 23 16 | | n.a. |
| S 4 | 22 7 | 3n 4 | 4 48 | 14 9 | 3 43 | 24 10 | 0 51 | 9 41 | 1 34 | 12 16 | 1 24 | 19 15 | 1 36 | 0 20 | 0 41 | 15 12 | 1 42 | 7 7 | 10 14 | 23 35 | 23 37 | 23 15 | | n.a. |
| S 5 | 22 15 | 8 24 | 4 11 | 14 27 | 3 35 | 24 18 | 0 53 | 9 44 | 1 36 | 12 14 | 1 24 | 19 14 | 1 36 | 0 20 | 0 41 | 15 12 | 1 42 | 7 7 | 10 14 | 23 35 | 23 37 | 23 15 | | n.a. |
| M 6 | 22 23 | 13 17 | 3 22 | 14 47 | 3 26 | 24 24 | 0 55 | 9 48 | 1 38 | 12 12 | 1 23 | 19 12 | 1 36 | 0 21 | 0 41 | 15 13 | 1 42 | 7 8 | 10 14 | 23 35 | 23 37 | 23 14 | | n.a. |
| T 7 | 22 31 | 17 31 | 2 23 | 15 8 | 3 17 | 24 30 | 0 57 | 9 51 | 1 40 | 12 9 | 1 23 | 19 11 | 1 36 | 0 22 | 0 41 | 15 13 | 1 42 | 7 8 | 10 14 | 23 35 | 23 36 | 23 13 | | n.a. |
| W 8 | 22 39 | 20 54 | 1 19 | 15 31 | 3 7 | 24 35 | 0 59 | 9 55 | 1 41 | 12 7 | 1 23 | 19 9 | 1 36 | 0 22 | 0 41 | 15 14 | 1 42 | 7 8 | 10 14 | 23 35 | 23 36 | 23 12 | | n.a. |
| T 9 | 22 46 | 23 17 | 0 12 | 15 55 | 2 57 | 24 40 | 1 1 | 10 0 | 1 43 | 12 4 | 1 23 | 19 8 | 1 36 | 0 23 | 0 41 | 15 14 | 1 42 | 7 8 | 10 14 | 23 35 | 23 36 | 23 12 | | n.a. |
| F 10 | 22 52 | 24 33 | 0n55 | 16 21 | 2 45 | 24 43 | 1 3 | 10 4 | 1 45 | 12 1 | 1 23 | 19 6 | 1 36 | 0 24 | 0 41 | 15 15 | 1 42 | 7 9 | 10 14 | 23 35 | 23 36 | 23 11 | | n.a. |
| S 11 | 22 58 | 24 40 | 1 58 | 16 48 | 2 34 | 24 46 | 1 5 | 10 9 | 1 47 | 11 59 | 1 22 | 19 5 | 1 36 | 0 24 | 0 41 | 15 16 | 1 42 | 7 9 | 10 15 | 23 35 | 23 36 | 23 10 | | n.a. |
| S 12 | 23 4 | 23 39 | 2 56 | 17 16 | 2 22 | 24 49 | 1 6 | 10 14 | 1 48 | 11 56 | 1 22 | 19 3 | 1 35 | 0 25 | 0 41 | 15 16 | 1 42 | 7 9 | 10 15 | 23 35 | 23 36 | 23 9 | | n.a. |
| M13 | 23 10 | 21 35 | 3 47 | 17 45 | 2 10 | 24 50 | 1 8 | 10 19 | 1 50 | 11 53 | 1 22 | 19 2 | 1 35 | 0 25 | 0 41 | 15 17 | 1 42 | 7 10 | 10 15 | 23 35 | 23 36 | 23 8 | | n.a. |
| T 14 | 23 15 | 18 37 | 4 27 | 18 15 | 1 57 | 24 51 | 1 10 | 10 25 | 1 51 | 11 50 | 1 22 | 19 0 | 1 35 | 0 26 | 0 41 | 15 17 | 1 42 | 7 10 | 10 15 | 23 35 | 23 36 | 23 8 | | n.a. |
| W15 | 23 19 | 14 52 | 4 57 | 18 45 | 1 45 | 24 51 | 1 11 | 10 31 | 1 53 | 11 48 | 1 22 | 18 59 | 1 35 | 0 26 | 0 41 | 15 18 | 1 42 | 7 10 | 10 15 | 23 35 | 23 35 | 23 7 | | n.a. |
| T 16 | 23 23 | 10 28 | 5 14 | 19 15 | 1 32 | 24 50 | 1 13 | 10 36 | 1 54 | 11 45 | 1 21 | 18 57 | 1 35 | 0 27 | 0 41 | 15 18 | 1 42 | 7 10 | 10 15 | 23 35 | 23 35 | 23 6 | | n.a. |
| F 17 | 23 27 | 5 35 | 5 17 | 19 46 | 1 19 | 24 48 | 1 14 | 10 43 | 1 56 | 11 42 | 1 21 | 18 55 | 1 35 | 0 27 | 0 41 | 15 19 | 1 43 | 7 11 | 10 15 | 23 35 | 23 35 | 23 5 | | n.a. |
| S 18 | 23 30 | 0 21 | 5 5 | 20 16 | 1 6 | 24 46 | 1 16 | 10 49 | 1 57 | 11 39 | 1 21 | 18 54 | 1 35 | 0 28 | 0 41 | 15 19 | 1 43 | 7 11 | 10 15 | 23 35 | 23 35 | 23 4 | | n.a. |
| S 19 | 23 33 | 5s 3 | 4 37 | 20 46 | 0 53 | 24 43 | 1 17 | 10 56 | 1 58 | 11 36 | 1 21 | 18 52 | 1 35 | 0 28 | 0 41 | 15 20 | 1 43 | 7 11 | 10 15 | 23 35 | 23 35 | 23 3 | | n.a. |
| M20 | 23 36 | 10 24 | 3 53 | 21 16 | 0 40 | 24 39 | 1 18 | 11 2 | 2 0 | 11 33 | 1 21 | 18 50 | 1 35 | 0 28 | 0 41 | 15 20 | 1 43 | 7 11 | 10 15 | 23 35 | 23 35 | 23 3 | | n.a. |
| T 21 | 23 38 | 15 25 | 2 55 | 21 44 | 0 27 | 24 35 | 1 20 | 11 9 | 2 1 | 11 29 | 1 20 | 18 49 | 1 35 | 0 29 | 0 41 | 15 21 | 1 43 | 7 11 | 10 15 | 23 35 | 23 35 | 23 2 | | n.a. |
| W22 | 23 40 | 19 44 | 1 44 | 22 12 | 0 15 | 24 30 | 1 21 | 11 17 | 2 2 | 11 26 | 1 20 | 18 47 | 1 35 | 0 29 | 0 41 | 15 21 | 1 43 | 7 12 | 10 15 | 23 35 | 23 34 | 23 1 | | n.a. |
| T 23 | 23 41 | 22 55 | 0 25 | 22 39 | 0 3 | 24 24 | 1 22 | 11 24 | 2 3 | 11 23 | 1 20 | 18 45 | 1 35 | 0 30 | 0 41 | 15 22 | 1 43 | 7 12 | 10 16 | 23 35 | 23 34 | 23 0 | | n.a. |
| F 24 | 23 42 | 24 34 | 0s57 | 23 3 | 0n 9 | 24 17 | 1 23 | 11 31 | 2 4 | 11 20 | 1 20 | 18 43 | 1 35 | 0 30 | 0 41 | 15 22 | 1 43 | 7 12 | 10 16 | 23 35 | 23 34 | 22 59 | | n.a. |
| S 25 | 23 42 | 24 28 | 2 16 | 23 27 | 0 20 | 24 10 | 1 24 | 11 39 | 2 5 | 11 16 | 1 20 | 18 41 | 1 35 | 0 30 | 0 41 | 15 23 | 1 43 | 7 12 | 10 16 | 23 35 | 23 34 | 22 58 | | n.a. |
| S 26 | 23 42 | 22 35 | 3 26 | 23 48 | 0 31 | 24 1 | 1 25 | 11 47 | 2 6 | 11 13 | 1 19 | 18 40 | 1 35 | 0 30 | 0 41 | 15 23 | 1 43 | 7 12 | 10 16 | 23 35 | 23 34 | 22 57 | | n.a. |
| M27 | 23 42 | 19 11 | 4 21 | 24 7 | 0 41 | 23 53 | 1 26 | 11 55 | 2 7 | 11 10 | 1 19 | 18 38 | 1 35 | 0 31 | 0 42 | 15 24 | 1 43 | 7 13 | 10 16 | 23 35 | 23 34 | 22 57 | | n.a. |
| T 28 | 23 41 | 14 39 | 4 58 | 24 23 | 0 50 | 23 43 | 1 27 | 12 3 | 2 8 | 11 6 | 1 19 | 18 36 | 1 35 | 0 31 | 0 42 | 15 24 | 1 43 | 7 13 | 10 16 | 23 35 | 23 34 | 22 56 | | n.a. |
| W29 | 23 40 | 9 25 | 5 15 | 24 37 | 0 59 | 23 33 | 1 28 | 12 12 | 2 9 | 11 3 | 1 19 | 18 34 | 1 35 | 0 31 | 0 42 | 15 25 | 1 43 | 7 13 | 10 16 | 23 35 | 23 33 | 22 55 | | n.a. |
| T 30 | 23n38 | 3s49 | 5s14 | 24n49 | 1n 7 | 23n22 | 1n28 | 12s20 | 2s10 | 10n59 | 1n19 | 18n32 | 1n35 | 0n31 | 0s42 | 15n25 | 1s43 | 7n13 | 10s16 | 23n35 | 23n33 | 22n54 | | n.a. |

Julian Day Number = 1690893.5, Delta T = 03h10m32s
Ecliptic obliquity = 23°42'19, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°13'07, Lahiri = - 5°06'07 Julian Calendar 1 June 84 BCE == Greg. Calendar 30 May 084 BCE

The year -83 astronomical counting style corresponds to year 084 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 84 BCE
# geocentric

## JULY 84 BCE (-83) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 18 24 35 | 5♋11'07 | 15♈56 | 29♊49 | 23♋ 4 | 26♎48 | 5♍11 | 13♌21 | 2♈54 | 16♉54 | 16♉56 | 24♊25 | 23♊41 | 2♌59 | n.a. | F 1 |
| S 2 | 18 28 31 | 6° 8'29 | 29° 6 | 1♋55 | 24°18 | 27°10 | 5°20 | 13°28 | 2°54 | 16°55 | 16°57 | 24°26 | 23°38 | 3° 6 | n.a. | S 2 |
| S 3 | 18 32 28 | 7° 5'51 | 11♉57 | 4° 0 | 25°32 | 27°32 | 5°30 | 13°34 | 2°55 | 16°57 | 16°58 | 24°27 | 23°35 | 3°12 | n.a. | S 3 |
| M 4 | 18 36 24 | 8° 3'15 | 24°32 | 6° 6 | 26°45 | 27°55 | 5°39 | 13°41 | 2°55 | 16°58 | 16°59 | 24°28 | 23°31 | 3°19 | n.a. | M 4 |
| T 5 | 18 40 21 | 9° 0'41 | 6♊53 | 8°11 | 27°59 | 28°18 | 5°49 | 13°47 | 2°55 | 17° 0 | 17° 0 | 24°29 | 23°28 | 3°26 | n.a. | T 5 |
| W 6 | 18 44 17 | 9°58'07 | 19° 4 | 10°15 | 29°12 | 28°42 | 5°58 | 13°54 | 2°56 | 17° 1 | 17° 1 | 24°R30 | 23°25 | 3°32 | n.a. | W 6 |
| T 7 | 18 48 14 | 10°55'35 | 1♋ 6 | 12°19 | 0♌26 | 29° 6 | 6° 8 | 14° 0 | 2°56 | 17° 3 | 17° 2 | 24°30 | 23°22 | 3°39 | n.a. | T 7 |
| F 8 | 18 52 11 | 11°53'04 | 13° 2 | 14°21 | 1°40 | 29°31 | 6°18 | 14° 7 | 2°56 | 17° 4 | 17° 3 | 24°29 | 23°19 | 3°46 | n.a. | F 8 |
| S 9 | 18 56 7 | 12°50'34 | 24°53 | 16°23 | 2°53 | 29°56 | 6°28 | 14°14 | 2°56 | 17° 6 | 17° 3 | 24°27 | 23°16 | 3°52 | n.a. | S 9 |
| S 10 | 19 0 4 | 13°48'06 | 6♌43 | 18°23 | 4° 7 | 0♏21 | 6°38 | 14°21 | 2°56 | 17° 7 | 17° 4 | 24°24 | 23°12 | 3°59 | n.a. | S 10 |
| M11 | 19 4 0 | 14°45'38 | 18°32 | 20°22 | 5°20 | 0°47 | 6°48 | 14°27 | 2°56 | 17° 9 | 17° 5 | 24°21 | 23° 9 | 4° 6 | n.a. | M11 |
| T 12 | 19 7 57 | 15°43'11 | 0♍23 | 22°19 | 6°34 | 1°14 | 6°58 | 14°34 | 2°R56 | 17°10 | 17° 6 | 24°18 | 23° 6 | 4°12 | n.a. | T 12 |
| W13 | 19 11 53 | 16°40'46 | 12°21 | 24°16 | 7°47 | 1°41 | 7° 8 | 14°41 | 2°56 | 17°11 | 17° 7 | 24°15 | 23° 3 | 4°19 | n.a. | W13 |
| T 14 | 19 15 50 | 17°38'22 | 24°27 | 26°10 | 9° 1 | 2° 8 | 7°19 | 14°48 | 2°56 | 17°13 | 17° 8 | 24°12 | 23° 0 | 4°26 | n.a. | T 14 |
| F 15 | 19 19 46 | 18°35'58 | 6♎45 | 28° 4 | 10°14 | 2°36 | 7°29 | 14°55 | 2°56 | 17°14 | 17° 8 | 24°10 | 22°56 | 4°32 | n.a. | F 15 |
| S 16 | 19 23 43 | 19°33'36 | 19°20 | 29°55 | 11°28 | 3° 4 | 7°40 | 15° 2 | 2°56 | 17°15 | 17° 9 | 24°D10 | 22°53 | 4°39 | n.a. | S 16 |
| S 17 | 19 27 40 | 20°31'15 | 2♏16 | 1♌46 | 12°42 | 3°32 | 7°50 | 15° 9 | 2°56 | 17°16 | 17°10 | 24°10 | 22°50 | 4°46 | n.a. | S 17 |
| M18 | 19 31 36 | 21°28'55 | 15°35 | 3°35 | 13°55 | 4° 1 | 8° 1 | 15°16 | 2°55 | 17°18 | 17°10 | 24°11 | 22°47 | 4°53 | n.a. | M18 |
| T 19 | 19 35 33 | 22°26'36 | 29°21 | 5°22 | 15° 9 | 4°30 | 8°12 | 15°23 | 2°55 | 17°19 | 17°11 | 24°13 | 22°44 | 4°59 | n.a. | T 19 |
| W20 | 19 39 29 | 23°24'19 | 13♐34 | 7° 8 | 16°22 | 5° 0 | 8°23 | 15°30 | 2°55 | 17°20 | 17°12 | 24°14 | 22°41 | 5° 6 | n.a. | W20 |
| T 21 | 19 43 26 | 24°22'03 | 28°12 | 8°53 | 17°36 | 5°30 | 8°33 | 15°37 | 2°54 | 17°21 | 17°12 | 24°R14 | 22°37 | 5°13 | n.a. | T 21 |
| F 22 | 19 47 22 | 25°19'48 | 13♑10 | 10°36 | 18°49 | 6° 0 | 8°44 | 15°44 | 2°54 | 17°22 | 17°13 | 24°13 | 22°34 | 5°19 | n.a. | F 22 |
| S 23 | 19 51 19 | 26°17'35 | 28°22 | 12°18 | 20° 2 | 6°31 | 8°56 | 15°52 | 2°53 | 17°23 | 17°14 | 24°11 | 22°31 | 5°26 | n.a. | S 23 |
| S 24 | 19 55 15 | 27°15'23 | 13♒37 | 13°58 | 21°16 | 7° 1 | 9° 7 | 15°59 | 2°53 | 17°24 | 17°14 | 24° 7 | 22°28 | 5°33 | n.a. | S 24 |
| M25 | 19 59 12 | 28°13'13 | 28°45 | 15°37 | 22°29 | 7°33 | 9°18 | 16° 6 | 2°52 | 17°25 | 17°15 | 24° 2 | 22°25 | 5°39 | n.a. | M25 |
| T 26 | 20 3 9 | 29°11'04 | 13♓37 | 17°15 | 23°43 | 8° 4 | 9°29 | 16°13 | 2°51 | 17°26 | 17°15 | 23°57 | 22°22 | 5°46 | n.a. | T 26 |
| W27 | 20 7 5 | 0♌ 8'58 | 28° 6 | 18°51 | 24°56 | 8°36 | 9°40 | 16°21 | 2°51 | 17°27 | 17°16 | 23°53 | 22°18 | 5°53 | n.a. | W27 |
| T 28 | 20 11 2 | 1° 6'53 | 12♈ 8 | 20°26 | 26° 9 | 9° 8 | 9°52 | 16°28 | 2°50 | 17°28 | 17°16 | 23°50 | 22°15 | 5°59 | n.a. | T 28 |
| F 29 | 20 14 58 | 2° 4'50 | 25°41 | 22° 0 | 27°23 | 9°41 | 10° 3 | 16°35 | 2°49 | 17°29 | 17°17 | 23°48 | 22°12 | 6° 6 | n.a. | F 29 |
| S 30 | 20 18 55 | 3° 2'50 | 8♉49 | 23°32 | 28°36 | 10°13 | 10°15 | 16°42 | 2°48 | 17°30 | 17°17 | 23°D48 | 22° 9 | 6°13 | n.a. | S 30 |
| S 31 | 20 22 51 | 4♌ 0'51 | 21♉34 | 25♌ 3 | 29♌50 | 10♏46 | 10♍26 | 16♌50 | 2♈47 | 17♉31 | 17♉18 | 23♊49 | 22♊ 6 | 6♌19 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| F 1 | 23n36 | 1n48 | 4s55 | 24n57 | 1n15 | 23n10 | 1n29 | 12s29 | 2s11 | 10n56 | 1n19 | 18n30 | 1n35 | 0n32 | 0s42 | 15n25 | 1s43 | 7n13 | 10s16 | 23n35 | 23n33 | 22n53 | | n.a. | F 1 |
| S 2 | 23 34 | 7 13 | 4 21 | 25 3 | 1 22 | 22 58 | 1 30 | 12 38 | 2 12 | 10 52 | 1 18 | 18 29 | 1 35 | 0 32 | 0 42 | 15 26 | 1 43 | 7 13 | 10 17 | 23 35 | 23 33 | 22 52 | | n.a. | S 2 |
| S 3 | 23 31 | 12 11 | 3 34 | 25 6 | 1 27 | 22 45 | 1 30 | 12 46 | 2 13 | 10 49 | 1 18 | 18 27 | 1 35 | 0 32 | 0 42 | 15 26 | 1 43 | 7 14 | 10 17 | 23 35 | 23 33 | 22 51 | | n.a. | S 3 |
| M 4 | 23 27 | 16 33 | 2 38 | 25 6 | 1 33 | 22 31 | 1 31 | 12 55 | 2 14 | 10 45 | 1 18 | 18 25 | 1 35 | 0 32 | 0 42 | 15 27 | 1 43 | 7 14 | 10 17 | 23 35 | 23 33 | 22 50 | | n.a. | M 4 |
| T 5 | 23 24 | 20 8 | 1 36 | 25 4 | 1 37 | 22 17 | 1 31 | 13 5 | 2 15 | 10 41 | 1 18 | 18 23 | 1 35 | 0 32 | 0 42 | 15 27 | 1 43 | 7 14 | 10 17 | 23 35 | 23 33 | 22 49 | | n.a. | T 5 |
| W 6 | 23 20 | 22 45 | 0 30 | 24 58 | 1 41 | 22 2 | 1 31 | 13 14 | 2 15 | 10 37 | 1 18 | 18 21 | 1 34 | 0 32 | 0 42 | 15 28 | 1 43 | 7 14 | 10 17 | 23 35 | 23 32 | 22 48 | | n.a. | W 6 |
| T 7 | 23 15 | 24 19 | 0n36 | 24 51 | 1 43 | 21 46 | 1 32 | 13 23 | 2 16 | 10 34 | 1 18 | 18 19 | 1 34 | 0 32 | 0 42 | 15 28 | 1 43 | 7 14 | 10 17 | 23 35 | 23 32 | 22 47 | | n.a. | T 7 |
| F 8 | 23 10 | 24 44 | 1 41 | 24 40 | 1 46 | 21 30 | 1 32 | 13 33 | 2 17 | 10 30 | 1 17 | 18 17 | 1 34 | 0 32 | 0 42 | 15 28 | 1 43 | 7 14 | 10 17 | 23 35 | 23 32 | 22 46 | | n.a. | F 8 |
| S 9 | 23 5 | 24 1 | 2 40 | 24 28 | 1 47 | 21 13 | 1 32 | 13 43 | 2 17 | 10 26 | 1 17 | 18 15 | 1 34 | 0 32 | 0 42 | 15 29 | 1 43 | 7 14 | 10 18 | 23 35 | 23 32 | 22 45 | | n.a. | S 9 |
| S 10 | 22 59 | 22 13 | 3 32 | 24 13 | 1 48 | 20 56 | 1 32 | 13 52 | 2 18 | 10 22 | 1 17 | 18 13 | 1 34 | 0 32 | 0 42 | 15 29 | 1 43 | 7 14 | 10 18 | 23 35 | 23 32 | 22 44 | | n.a. | S 10 |
| M11 | 22 53 | 19 29 | 4 15 | 23 55 | 1 48 | 20 38 | 1 32 | 14 2 | 2 19 | 10 18 | 1 17 | 18 11 | 1 34 | 0 32 | 0 42 | 15 29 | 1 43 | 7 14 | 10 18 | 23 35 | 23 32 | 22 43 | | n.a. | M11 |
| T 12 | 22 46 | 15 56 | 4 48 | 23 36 | 1 48 | 20 19 | 1 32 | 14 12 | 2 19 | 10 14 | 1 17 | 18 9 | 1 34 | 0 32 | 0 42 | 15 30 | 1 43 | 7 14 | 10 18 | 23 35 | 23 31 | 22 42 | | n.a. | T 12 |
| W13 | 22 39 | 11 44 | 5 8 | 23 15 | 1 47 | 20 0 | 1 32 | 14 22 | 2 20 | 10 10 | 1 17 | 18 7 | 1 34 | 0 32 | 0 42 | 15 30 | 1 43 | 7 15 | 10 18 | 23 35 | 23 31 | 22 41 | | n.a. | W13 |
| T 14 | 22 32 | 7 2 | 5 14 | 22 52 | 1 45 | 19 40 | 1 31 | 14 32 | 2 20 | 10 6 | 1 17 | 18 5 | 1 34 | 0 32 | 0 42 | 15 30 | 1 43 | 7 15 | 10 18 | 23 35 | 23 31 | 22 40 | | n.a. | T 14 |
| F 15 | 22 24 | 1 59 | 5 7 | 22 27 | 1 43 | 19 20 | 1 31 | 14 42 | 2 21 | 10 2 | 1 16 | 18 3 | 1 34 | 0 32 | 0 42 | 15 31 | 1 44 | 7 15 | 10 18 | 23 35 | 23 31 | 22 39 | | n.a. | F 15 |
| S 16 | 22 16 | 3s16 | 4 45 | 22 1 | 1 40 | 18 59 | 1 31 | 14 53 | 2 21 | 9 58 | 1 16 | 18 0 | 1 34 | 0 32 | 0 42 | 15 31 | 1 44 | 7 15 | 10 19 | 23 34 | 23 31 | 22 38 | | n.a. | S 16 |
| S 17 | 22 7 | 8 31 | 4 8 | 21 34 | 1 37 | 18 38 | 1 30 | 15 3 | 2 22 | 9 54 | 1 16 | 17 58 | 1 34 | 0 32 | 0 42 | 15 31 | 1 44 | 7 15 | 10 19 | 23 35 | 23 31 | 22 37 | | n.a. | S 17 |
| M18 | 21 58 | 13 34 | 3 16 | 21 5 | 1 33 | 18 16 | 1 30 | 15 13 | 2 22 | 9 50 | 1 16 | 17 56 | 1 34 | 0 32 | 0 42 | 15 32 | 1 44 | 7 15 | 10 19 | 23 35 | 23 30 | 22 36 | | n.a. | M18 |
| T 19 | 21 49 | 18 5 | 2 12 | 20 35 | 1 29 | 17 53 | 1 29 | 15 24 | 2 22 | 9 45 | 1 16 | 17 54 | 1 34 | 0 32 | 0 42 | 15 32 | 1 44 | 7 15 | 10 19 | 23 35 | 23 30 | 22 35 | | n.a. | T 19 |
| W20 | 21 39 | 21 43 | 0 58 | 20 4 | 1 25 | 17 31 | 1 28 | 15 34 | 2 23 | 9 41 | 1 16 | 17 52 | 1 34 | 0 31 | 0 42 | 15 32 | 1 44 | 7 15 | 10 19 | 23 35 | 23 30 | 22 34 | | n.a. | W20 |
| T 21 | 21 29 | 24 3 | 0s22 | 19 31 | 1 20 | 17 7 | 1 28 | 15 45 | 2 23 | 9 37 | 1 16 | 17 50 | 1 34 | 0 31 | 0 42 | 15 32 | 1 44 | 7 15 | 10 19 | 23 35 | 23 30 | 22 33 | | n.a. | T 21 |
| F 22 | 21 18 | 24 44 | 1 42 | 18 58 | 1 15 | 16 44 | 1 27 | 15 55 | 2 24 | 9 33 | 1 15 | 17 48 | 1 34 | 0 31 | 0 42 | 15 33 | 1 44 | 7 15 | 10 20 | 23 35 | 23 30 | 22 32 | | n.a. | F 22 |
| S 23 | 21 8 | 23 35 | 2 56 | 18 24 | 1 9 | 16 19 | 1 26 | 16 6 | 2 24 | 9 28 | 1 15 | 17 46 | 1 34 | 0 31 | 0 42 | 15 33 | 1 44 | 7 15 | 10 20 | 23 35 | 23 29 | 22 31 | | n.a. | S 23 |
| S 24 | 20 56 | 20 42 | 3 57 | 17 50 | 1 4 | 15 55 | 1 25 | 16 17 | 2 24 | 9 24 | 1 15 | 17 43 | 1 34 | 0 31 | 0 42 | 15 33 | 1 44 | 7 15 | 10 20 | 23 34 | 23 29 | 22 30 | | n.a. | S 24 |
| M25 | 20 45 | 16 26 | 4 42 | 17 15 | 0 57 | 15 30 | 1 24 | 16 27 | 2 25 | 9 20 | 1 15 | 17 41 | 1 34 | 0 30 | 0 42 | 15 33 | 1 44 | 7 15 | 10 20 | 23 34 | 23 29 | 22 29 | | n.a. | M25 |
| T 26 | 20 33 | 11 13 | 5 6 | 16 39 | 0 51 | 15 4 | 1 23 | 16 38 | 2 25 | 9 15 | 1 15 | 17 39 | 1 34 | 0 30 | 0 42 | 15 34 | 1 44 | 7 15 | 10 20 | 23 34 | 23 29 | 22 28 | | n.a. | T 26 |
| W27 | 20 21 | 5 30 | 5 11 | 16 2 | 0 44 | 14 38 | 1 22 | 16 49 | 2 25 | 9 11 | 1 15 | 17 37 | 1 35 | 0 30 | 0 42 | 15 34 | 1 44 | 7 15 | 10 20 | 23 34 | 23 29 | 22 27 | | n.a. | W27 |
| T 28 | 20 8 | 0n19 | 4 56 | 15 26 | 0 37 | 14 12 | 1 21 | 16 59 | 2 25 | 9 6 | 1 15 | 17 35 | 1 35 | 0 29 | 0 42 | 15 34 | 1 44 | 7 15 | 10 21 | 23 34 | 23 29 | 22 26 | | n.a. | T 28 |
| F 29 | 19 55 | 5 56 | 4 25 | 14 48 | 0 30 | 13 45 | 1 19 | 17 10 | 2 25 | 9 2 | 1 15 | 17 32 | 1 35 | 0 29 | 0 43 | 15 34 | 1 44 | 7 15 | 10 21 | 23 34 | 23 28 | 22 25 | | n.a. | F 29 |
| S 30 | 19 42 | 11 7 | 3 41 | 14 11 | 0 23 | 13 18 | 1 18 | 17 21 | 2 26 | 8 57 | 1 15 | 17 30 | 1 35 | 0 29 | 0 43 | 15 34 | 1 44 | 7 15 | 10 21 | 23 34 | 23 28 | 22 24 | | n.a. | S 30 |
| S 31 | 19n28 | 15n41 | 2s47 | 13n33 | 0n15 | 12n51 | 1n16 | 17s32 | 2s26 | 8n53 | 1n14 | 17n28 | 1n35 | 0n28 | 0s43 | 15n35 | 1s44 | 7n15 | 10s21 | 23n34 | 23n28 | 22n23 | | n.a. | S 31 |

Julian Day Number = 1690923.5, Delta T = 03h10m32s
Ecliptic obliquity = 23°42'19, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°13'03, Lahiri = - 5°06'03 Julian Calendar 1 July 84 BCE == Greg. Calendar 29 June 084 BCE

The year -83 astronomical counting style corresponds to year 084 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 84 BCE
# geocentric

## AUGUST 84 BCE (-83) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 20 26 48 | 4♌58'54 | 3♊59 | 26♌33 | 1♍ 3 | 11♏20 | 10♍38 | 16♌57 | 2°R46 | 17♉31 | 17♉18 | 23♊51 | 22♊ 2 | 6♌26 | n.a. | M 1 |
| T 2 | 20 30 44 | 5°57'00 | 16°11 | 28° 1 | 2°16 | 11°53 | 10°50 | 17° 5 | 2♈45 | 17°32 | 17°19 | 23°52 | 21°59 | 6°33 | n.a. | T 2 |
| W 3 | 20 34 41 | 6°55'07 | 28°11 | 29°28 | 3°30 | 12°27 | 11° 2 | 17°12 | 2°44 | 17°33 | 17°19 | 23°R52 | 21°56 | 6°39 | n.a. | W 3 |
| T 4 | 20 38 38 | 7°53'17 | 10♋ 5 | 0♍54 | 4°43 | 13° 1 | 11°13 | 17°19 | 2°43 | 17°34 | 17°19 | 23°51 | 21°53 | 6°46 | n.a. | T 4 |
| F 5 | 20 42 34 | 8°51'28 | 21°55 | 2°18 | 5°56 | 13°36 | 11°25 | 17°27 | 2°42 | 17°34 | 17°20 | 23°47 | 21°50 | 6°53 | n.a. | F 5 |
| S 6 | 20 46 31 | 9°49'41 | 3♌44 | 3°41 | 7°10 | 14°10 | 11°37 | 17°34 | 2°41 | 17°35 | 17°20 | 23°42 | 21°47 | 6°59 | n.a. | S 6 |
| S 7 | 20 50 27 | 10°47'57 | 15°34 | 5° 2 | 8°23 | 14°45 | 11°49 | 17°42 | 2°40 | 17°35 | 17°20 | 23°34 | 21°43 | 7° 6 | n.a. | S 7 |
| M 8 | 20 54 24 | 11°46'14 | 27°26 | 6°22 | 9°36 | 15°20 | 12° 1 | 17°49 | 2°38 | 17°36 | 17°21 | 23°25 | 21°40 | 7°13 | n.a. | M 8 |
| T 9 | 20 58 20 | 12°44'32 | 9♍23 | 7°40 | 10°49 | 15°56 | 12°13 | 17°56 | 2°37 | 17°36 | 17°21 | 23°16 | 21°37 | 7°20 | n.a. | T 9 |
| W10 | 21 2 17 | 13°42'53 | 21°26 | 8°57 | 12° 2 | 16°31 | 12°26 | 18° 4 | 2°36 | 17°37 | 17°21 | 23° 7 | 21°34 | 7°26 | n.a. | W10 |
| T 11 | 21 6 13 | 14°41'15 | 3♎37 | 10°11 | 13°16 | 17° 7 | 12°38 | 18°11 | 2°34 | 17°37 | 17°21 | 22°59 | 21°31 | 7°33 | n.a. | T 11 |
| F 12 | 21 10 10 | 15°39'39 | 15°59 | 11°25 | 14°29 | 17°43 | 12°50 | 18°19 | 2°33 | 17°38 | 17°22 | 22°52 | 21°28 | 7°40 | n.a. | F 12 |
| S 13 | 21 14 7 | 16°38'05 | 28°34 | 12°36 | 15°42 | 18°20 | 13° 2 | 18°26 | 2°31 | 17°38 | 17°22 | 22°49 | 21°24 | 7°46 | n.a. | S 13 |
| S 14 | 21 18 3 | 17°36'32 | 11♏26 | 13°46 | 16°55 | 18°56 | 13°15 | 18°34 | 2°30 | 17°39 | 17°22 | 22°47 | 21°21 | 7°53 | n.a. | S 14 |
| M15 | 21 22 0 | 18°35'01 | 24°38 | 14°53 | 18° 8 | 19°33 | 13°27 | 18°41 | 2°28 | 17°39 | 17°22 | 22°D47 | 21°18 | 8° 0 | n.a. | M15 |
| T 16 | 21 25 56 | 19°33'32 | 8♐14 | 15°59 | 19°21 | 20°10 | 13°39 | 18°49 | 2°27 | 17°39 | 17°22 | 22°48 | 21°15 | 8° 6 | n.a. | T 16 |
| W17 | 21 29 53 | 20°32'05 | 22°15 | 17° 2 | 20°35 | 20°47 | 13°52 | 18°56 | 2°25 | 17°39 | 17°22 | 22°R48 | 21°12 | 8°13 | n.a. | W17 |
| T 18 | 21 33 49 | 21°30'40 | 6♑41 | 18° 2 | 21°48 | 21°25 | 14° 4 | 19° 4 | 2°24 | 17°40 | 17°22 | 22°47 | 21° 8 | 8°20 | n.a. | T 18 |
| F 19 | 21 37 46 | 22°29'16 | 21°31 | 19° 1 | 23° 1 | 22° 2 | 14°17 | 19°11 | 2°22 | 17°40 | 17°22 | 22°45 | 21° 5 | 8°26 | n.a. | F 19 |
| S 20 | 21 41 42 | 23°27'54 | 6♒38 | 19°56 | 24°14 | 22°40 | 14°30 | 19°19 | 2°20 | 17°40 | 17°22 | 22°39 | 21° 2 | 8°33 | n.a. | S 20 |
| S 21 | 21 45 39 | 24°26'34 | 21°53 | 20°49 | 25°27 | 23°18 | 14°42 | 19°26 | 2°18 | 17°40 | 17°R22 | 22°32 | 20°59 | 8°40 | n.a. | S 21 |
| M22 | 21 49 36 | 25°25'16 | 7♓ 7 | 21°38 | 26°40 | 23°56 | 14°55 | 19°33 | 2°17 | 17°40 | 17°22 | 22°22 | 20°56 | 8°46 | n.a. | M22 |
| T 23 | 21 53 32 | 26°24'00 | 22° 7 | 22°24 | 27°52 | 24°35 | 15° 7 | 19°41 | 2°15 | 17°40 | 17°22 | 22°13 | 20°53 | 8°53 | n.a. | T 23 |
| W24 | 21 57 29 | 27°22'46 | 6♈46 | 23° 6 | 29° 5 | 25°13 | 15°20 | 19°48 | 2°13 | 17°R40 | 17°22 | 22° 4 | 20°49 | 9° 0 | n.a. | W24 |
| T 25 | 22 1 25 | 28°21'35 | 20°57 | 23°45 | 0♎18 | 25°52 | 15°33 | 19°56 | 2°11 | 17°40 | 17°22 | 21°57 | 20°46 | 9° 7 | n.a. | T 25 |
| F 26 | 22 5 22 | 29°20'26 | 4♉38 | 24°19 | 1°31 | 26°31 | 15°46 | 20° 3 | 2° 9 | 17°40 | 17°22 | 21°52 | 20°43 | 9°13 | n.a. | F 26 |
| S 27 | 22 9 18 | 0♍19'19 | 17°49 | 24°48 | 2°44 | 27°10 | 15°58 | 20°11 | 2° 7 | 17°40 | 17°22 | 21°49 | 20°40 | 9°20 | n.a. | S 27 |
| S 28 | 22 13 15 | 1°18'15 | 0♊35 | 25°12 | 3°57 | 27°49 | 16°11 | 20°18 | 2° 5 | 17°40 | 17°22 | 21°D49 | 20°37 | 9°27 | n.a. | S 28 |
| M29 | 22 17 11 | 2°17'14 | 12°59 | 25°31 | 5°10 | 28°28 | 16°24 | 20°25 | 2° 3 | 17°40 | 17°22 | 21°49 | 20°33 | 9°33 | n.a. | M29 |
| T 30 | 22 21 8 | 3°16'14 | 25° 7 | 25°44 | 6°22 | 29° 8 | 16°37 | 20°33 | 2° 1 | 17°40 | 17°21 | 21°R49 | 20°30 | 9°40 | n.a. | T 30 |
| W31 | 22 25 4 | 4♍15'17 | 7♋ 4 | 25♍51 | 7♎35 | 29♏47 | 16♍50 | 20♌40 | 1♈59 | 17♉40 | 17♉21 | 21♊48 | 20♊27 | 9♌47 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| M 1 | 19n14 | 19n27 | 1s46 | 12n55 | 0n 8 | 12n23 | 1n15 | 17s42 | 2s26 | 8n48 | 1n14 | 17n26 | 1n35 | 0n28 | 0s43 | 15n35 | 1s44 | 7n15 | 10s21 | 23n34 | 23n28 | 22n21 | | | n.a. |
| T 2 | 19 0 | 22 17 | 0 42 | 12 17 | 0s 0 | 11 55 | 1 13 | 17 53 | 2 26 | 8 44 | 1 14 | 17 24 | 1 35 | 0 27 | 0 43 | 15 35 | 1 44 | 7 15 | 10 21 | 23 34 | 23 28 | 22 20 | | | n.a. |
| W 3 | 18 45 | 24 5 | 0n23 | 11 39 | 0 8 | 11 27 | 1 12 | 18 4 | 2 26 | 8 39 | 1 14 | 17 21 | 1 35 | 0 27 | 0 43 | 15 35 | 1 44 | 7 15 | 10 22 | 23 34 | 23 27 | 22 19 | | | n.a. |
| T 4 | 18 30 | 24 46 | 1 27 | 11 1 | 0 17 | 10 58 | 1 10 | 18 14 | 2 26 | 8 34 | 1 14 | 17 19 | 1 35 | 0 27 | 0 43 | 15 35 | 1 45 | 7 14 | 10 22 | 23 34 | 23 27 | 22 18 | | | n.a. |
| F 5 | 18 15 | 24 18 | 2 26 | 10 23 | 0 25 | 10 29 | 1 8 | 18 25 | 2 26 | 8 30 | 1 14 | 17 17 | 1 35 | 0 26 | 0 43 | 15 35 | 1 45 | 7 14 | 10 22 | 23 33 | 23 27 | 22 17 | | | n.a. |
| S 6 | 17 59 | 22 45 | 3 18 | 9 45 | 0 33 | 10 0 | 1 6 | 18 36 | 2 26 | 8 25 | 1 14 | 17 15 | 1 35 | 0 26 | 0 43 | 15 36 | 1 45 | 7 14 | 10 22 | 23 33 | 23 27 | 22 16 | | | n.a. |
| S 7 | 17 43 | 20 12 | 4 2 | 9 7 | 0 42 | 9 31 | 1 5 | 18 46 | 2 26 | 8 20 | 1 14 | 17 12 | 1 35 | 0 25 | 0 43 | 15 36 | 1 45 | 7 14 | 10 22 | 23 33 | 23 27 | 22 15 | | | n.a. |
| M 8 | 17 27 | 16 48 | 4 36 | 8 30 | 0 50 | 9 1 | 1 3 | 18 57 | 2 26 | 8 16 | 1 14 | 17 10 | 1 35 | 0 24 | 0 43 | 15 36 | 1 45 | 7 14 | 10 23 | 23 32 | 23 26 | 22 13 | | | n.a. |
| T 9 | 17 10 | 12 43 | 4 57 | 7 52 | 0 59 | 8 31 | 1 1 | 19 7 | 2 26 | 8 11 | 1 14 | 17 8 | 1 35 | 0 24 | 0 43 | 15 36 | 1 45 | 7 14 | 10 23 | 23 32 | 23 26 | 22 12 | | | n.a. |
| W10 | 16 54 | 8 7 | 5 6 | 7 16 | 1 8 | 8 1 | 0 58 | 19 18 | 2 26 | 8 6 | 1 13 | 17 5 | 1 35 | 0 23 | 0 43 | 15 36 | 1 45 | 7 14 | 10 23 | 23 31 | 23 26 | 22 11 | | | n.a. |
| T 11 | 16 37 | 3 9 | 5 1 | 6 39 | 1 17 | 7 31 | 0 56 | 19 28 | 2 26 | 8 1 | 1 13 | 17 3 | 1 35 | 0 23 | 0 43 | 15 36 | 1 45 | 7 14 | 10 23 | 23 31 | 23 26 | 22 10 | | | n.a. |
| F 12 | 16 19 | 2s 1 | 4 42 | 6 3 | 1 25 | 7 0 | 0 54 | 19 38 | 2 26 | 7 56 | 1 13 | 17 1 | 1 35 | 0 22 | 0 43 | 15 36 | 1 45 | 7 14 | 10 23 | 23 31 | 23 26 | 22 9 | | | n.a. |
| S 13 | 16 2 | 7 12 | 4 9 | 5 27 | 1 34 | 6 30 | 0 52 | 19 49 | 2 26 | 7 52 | 1 13 | 16 59 | 1 35 | 0 22 | 0 43 | 15 36 | 1 45 | 7 13 | 10 23 | 23 30 | 23 25 | 22 8 | | | n.a. |
| S 14 | 15 44 | 12 13 | 3 23 | 4 52 | 1 43 | 5 59 | 0 50 | 19 59 | 2 26 | 7 47 | 1 13 | 16 56 | 1 35 | 0 21 | 0 43 | 15 36 | 1 45 | 7 13 | 10 24 | 23 30 | 23 25 | 22 6 | | | n.a. |
| M15 | 15 25 | 16 48 | 2 25 | 4 18 | 1 52 | 5 28 | 0 47 | 20 9 | 2 26 | 7 42 | 1 13 | 16 54 | 1 35 | 0 20 | 0 43 | 15 36 | 1 45 | 7 13 | 10 24 | 23 30 | 23 25 | 22 5 | | | n.a. |
| T 16 | 15 7 | 20 39 | 1 17 | 3 45 | 2 0 | 4 57 | 0 45 | 20 19 | 2 26 | 7 37 | 1 13 | 16 52 | 1 35 | 0 20 | 0 43 | 15 36 | 1 45 | 7 13 | 10 24 | 23 30 | 23 25 | 22 4 | | | n.a. |
| W17 | 14 48 | 23 26 | 0 3 | 3 12 | 2 9 | 4 25 | 0 42 | 20 29 | 2 26 | 7 32 | 1 13 | 16 49 | 1 35 | 0 19 | 0 43 | 15 36 | 1 45 | 7 13 | 10 24 | 23 30 | 23 25 | 22 3 | | | n.a. |
| T 18 | 14 29 | 24 46 | 1s14 | 2 40 | 2 17 | 3 54 | 0 40 | 20 39 | 2 26 | 7 27 | 1 13 | 16 47 | 1 35 | 0 18 | 0 43 | 15 36 | 1 45 | 7 13 | 10 24 | 23 30 | 23 24 | 22 2 | | | n.a. |
| F 19 | 14 10 | 24 23 | 2 27 | 2 10 | 2 26 | 3 22 | 0 37 | 20 49 | 2 25 | 7 22 | 1 13 | 16 45 | 1 36 | 0 18 | 0 43 | 15 36 | 1 45 | 7 13 | 10 25 | 23 30 | 23 24 | 22 0 | | | n.a. |
| S 20 | 13 51 | 22 14 | 3 32 | 1 40 | 2 34 | 2 51 | 0 35 | 20 59 | 2 25 | 7 17 | 1 13 | 16 42 | 1 36 | 0 17 | 0 43 | 15 36 | 1 45 | 7 12 | 10 25 | 23 30 | 23 24 | 21 59 | | | n.a. |
| S 21 | 13 31 | 18 29 | 4 22 | 1 12 | 2 42 | 2 19 | 0 32 | 21 9 | 2 25 | 7 12 | 1 13 | 16 40 | 1 36 | 0 16 | 0 43 | 15 36 | 1 45 | 7 12 | 10 25 | 23 30 | 23 24 | 21 58 | | | n.a. |
| M22 | 13 11 | 13 31 | 4 53 | 0 45 | 2 50 | 1 47 | 0 29 | 21 18 | 2 25 | 7 7 | 1 13 | 16 38 | 1 36 | 0 15 | 0 43 | 15 36 | 1 46 | 7 12 | 10 25 | 23 29 | 23 23 | 21 57 | | | n.a. |
| T 23 | 12 51 | 7 48 | 5 3 | 0 20 | 2 57 | 1 15 | 0 26 | 21 27 | 2 25 | 7 2 | 1 13 | 16 36 | 1 36 | 0 15 | 0 43 | 15 36 | 1 46 | 7 12 | 10 25 | 23 28 | 23 23 | 21 55 | | | n.a. |
| W24 | 12 31 | 1 46 | 4 54 | 0s 3 | 3 4 | 0 43 | 0 24 | 21 37 | 2 24 | 6 57 | 1 13 | 16 33 | 1 36 | 0 14 | 0 43 | 15 36 | 1 46 | 7 12 | 10 26 | 23 28 | 23 23 | 21 54 | | | n.a. |
| T 25 | 12 11 | 4n10 | 4 26 | 0 25 | 3 11 | 0 12 | 0 21 | 21 46 | 2 24 | 6 52 | 1 12 | 16 31 | 1 36 | 0 13 | 0 43 | 15 36 | 1 46 | 7 11 | 10 26 | 23 27 | 23 23 | 21 53 | | | n.a. |
| F 26 | 11 50 | 9 42 | 3 44 | 0 44 | 3 18 | 0s20 | 0 18 | 21 55 | 2 24 | 6 47 | 1 12 | 16 29 | 1 36 | 0 12 | 0 43 | 15 36 | 1 46 | 7 11 | 10 26 | 23 27 | 23 23 | 21 52 | | | n.a. |
| S 27 | 11 29 | 14 36 | 2 50 | 1 1 | 3 23 | 0 52 | 0 15 | 22 4 | 2 24 | 6 42 | 1 12 | 16 26 | 1 36 | 0 12 | 0 43 | 15 36 | 1 46 | 7 11 | 10 26 | 23 27 | 23 22 | 21 50 | | | n.a. |
| S 28 | 11 8 | 18 42 | 1 50 | 1 16 | 3 29 | 1 24 | 0 12 | 22 13 | 2 23 | 6 37 | 1 12 | 16 24 | 1 36 | 0 11 | 0 43 | 15 36 | 1 46 | 7 11 | 10 26 | 23 27 | 23 22 | 21 49 | | | n.a. |
| M29 | 10 47 | 21 50 | 0 47 | 1 28 | 3 33 | 1 56 | 0 9 | 22 22 | 2 23 | 6 32 | 1 12 | 16 22 | 1 36 | 0 10 | 0 43 | 15 36 | 1 46 | 7 11 | 10 26 | 23 27 | 23 22 | 21 48 | | | n.a. |
| T 30 | 10 25 | 23 54 | 0n18 | 1 36 | 3 37 | 2 28 | 0 6 | 22 30 | 2 23 | 6 27 | 1 12 | 16 19 | 1 36 | 0 9 | 0 43 | 15 36 | 1 46 | 7 10 | 10 27 | 23 27 | 23 22 | 21 47 | | | n.a. |
| W31 | 10n 3 | 24n51 | 1n20 | 1s42 | 3s40 | 3s 0 | 0n 3 | 22s39 | 2s22 | 6n22 | 1n12 | 16n17 | 1n37 | 0n 8 | 0s43 | 15n36 | 1s46 | 7n10 | 10s27 | 23n27 | 23n21 | 21n45 | | | n.a. |

Julian Day Number = 1690954.5, Delta T = 03h10m31s
Ecliptic obliquity = 23°42'20, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°12'59, Lahiri = - 5°05'58 Julian Calendar 1 Aug. 84 BCE == Greg. Calendar 30 July 084 BCE

The year -83 astronomical counting style corresponds to year 084 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 84 BCE
# geocentric

## SEPTEMBER 84 BCE (-83) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 22 29 1 | 5♍14'23 | 18♋54 | 25°R52 | 8♎48 | 0♐27 | 17♍ 3 | 20♌47 | 1°R57 | 17°R39 | 17°R21 | 21°R45 | 20♊24 | 9♌53 | n.a. | T 1 |
| F 2 | 22 32 58 | 6°13'31 | 0♌42 | 25♍45 | 10° 0 | 1° 7 | 17°16 | 20°55 | 1♈55 | 17♉39 | 17♉21 | 21♊39 | 20°21 | 10° 0 | n.a. | F 2 |
| S 3 | 22 36 54 | 7°12'41 | 12°32 | 25°31 | 11°13 | 1°47 | 17°29 | 21° 2 | 1°53 | 17°39 | 17°20 | 21°30 | 20°18 | 10° 7 | n.a. | S 3 |
| S 4 | 22 40 51 | 8°11'53 | 24°25 | 25° 9 | 12°26 | 2°27 | 17°42 | 21° 9 | 1°50 | 17°38 | 17°20 | 21°19 | 20°14 | 10°13 | n.a. | S 4 |
| M 5 | 22 44 47 | 9°11'07 | 6♍24 | 24°39 | 13°38 | 3° 8 | 17°55 | 21°16 | 1°48 | 17°38 | 17°20 | 21° 6 | 20°11 | 10°20 | n.a. | M 5 |
| T 6 | 22 48 44 | 10°10'24 | 18°30 | 24° 2 | 14°51 | 3°48 | 18° 8 | 21°24 | 1°46 | 17°38 | 17°19 | 20°51 | 20° 8 | 10°27 | n.a. | T 6 |
| W 7 | 22 52 40 | 11° 9'42 | 0♎43 | 23°16 | 16° 4 | 4°29 | 18°21 | 21°31 | 1°44 | 17°37 | 17°19 | 20°38 | 20° 5 | 10°34 | n.a. | W 7 |
| T 8 | 22 56 37 | 12° 9'03 | 13° 6 | 22°24 | 17°16 | 5°10 | 18°34 | 21°38 | 1°41 | 17°37 | 17°19 | 20°26 | 20° 2 | 10°40 | n.a. | T 8 |
| F 9 | 23 0 33 | 13° 8'26 | 25°38 | 21°25 | 18°29 | 5°51 | 18°47 | 21°45 | 1°39 | 17°36 | 17°18 | 20°16 | 19°59 | 10°47 | n.a. | F 9 |
| S 10 | 23 4 30 | 14° 7'50 | 8♏22 | 20°21 | 19°41 | 6°32 | 19° 0 | 21°52 | 1°37 | 17°36 | 17°18 | 20° 9 | 19°55 | 10°54 | n.a. | S 10 |
| S 11 | 23 8 27 | 15° 7'17 | 21°18 | 19°12 | 20°53 | 7°13 | 19°13 | 21°59 | 1°34 | 17°35 | 17°17 | 20° 5 | 19°52 | 11° 0 | n.a. | S 11 |
| M12 | 23 12 23 | 16° 6'46 | 4♐30 | 18° 0 | 22° 6 | 7°55 | 19°26 | 22° 6 | 1°32 | 17°34 | 17°17 | 20° 3 | 19°49 | 11° 7 | n.a. | M12 |
| T 13 | 23 16 20 | 17° 6'16 | 18° 0 | 16°48 | 23°18 | 8°36 | 19°39 | 22°14 | 1°30 | 17°34 | 17°16 | 20° 3 | 19°46 | 11°14 | n.a. | T 13 |
| W14 | 23 20 16 | 18° 5'48 | 1♑50 | 15°37 | 24°31 | 9°18 | 19°52 | 22°21 | 1°27 | 17°33 | 17°16 | 20° 3 | 19°43 | 11°20 | n.a. | W14 |
| T 15 | 23 24 13 | 19° 5'23 | 16° 1 | 14°30 | 25°43 | 9°59 | 20° 5 | 22°27 | 1°25 | 17°32 | 17°15 | 20° 2 | 19°39 | 11°27 | n.a. | T 15 |
| F 16 | 23 28 9 | 20° 4'59 | 0♒33 | 13°28 | 26°55 | 10°41 | 20°18 | 22°34 | 1°23 | 17°32 | 17°15 | 19°58 | 19°36 | 11°34 | n.a. | F 16 |
| S 17 | 23 32 6 | 21° 4'36 | 15°21 | 12°32 | 28° 7 | 11°23 | 20°31 | 22°41 | 1°20 | 17°31 | 17°14 | 19°51 | 19°33 | 11°40 | n.a. | S 17 |
| S 18 | 23 36 2 | 22° 4'16 | 0♓20 | 11°46 | 29°19 | 12° 5 | 20°44 | 22°48 | 1°18 | 17°30 | 17°14 | 19°42 | 19°30 | 11°47 | n.a. | S 18 |
| M19 | 23 39 59 | 23° 3'57 | 15°21 | 11° 9 | 0♏32 | 12°47 | 20°57 | 22°55 | 1°15 | 17°29 | 17°13 | 19°31 | 19°27 | 11°54 | n.a. | M19 |
| T 20 | 23 43 55 | 24° 3'41 | 0♈14 | 10°43 | 1°44 | 13°29 | 21°11 | 23° 2 | 1°13 | 17°28 | 17°13 | 19°19 | 19°24 | 12° 1 | n.a. | T 20 |
| W21 | 23 47 52 | 25° 3'27 | 14°51 | 10°28 | 2°56 | 14°12 | 21°24 | 23° 8 | 1°10 | 17°28 | 17°12 | 19° 8 | 19°20 | 12° 7 | n.a. | W21 |
| T 22 | 23 51 49 | 26° 3'15 | 29° 3 | 10°D25 | 4° 8 | 14°54 | 21°37 | 23°15 | 1° 8 | 17°27 | 17°11 | 18°59 | 19°17 | 12°14 | n.a. | T 22 |
| F 23 | 23 55 45 | 27° 3'05 | 12♉48 | 10°32 | 5°20 | 15°36 | 21°50 | 23°22 | 1° 6 | 17°26 | 17°11 | 18°52 | 19°14 | 12°21 | n.a. | F 23 |
| S 24 | 23 59 42 | 28° 2'57 | 26° 4 | 10°50 | 6°32 | 16°19 | 22° 3 | 23°28 | 1° 3 | 17°25 | 17°10 | 18°48 | 19°11 | 12°27 | n.a. | S 24 |
| S 25 | 0 3 38 | 29° 2'52 | 8♊54 | 11°19 | 7°43 | 17° 2 | 22°16 | 23°35 | 1° 1 | 17°24 | 17° 9 | 18°47 | 19° 8 | 12°34 | n.a. | S 25 |
| M26 | 0 7 35 | 0♎ 2'49 | 21°21 | 11°56 | 8°55 | 17°44 | 22°29 | 23°42 | 0°58 | 17°23 | 17° 8 | 18°D46 | 19° 5 | 12°41 | n.a. | M26 |
| T 27 | 0 11 31 | 1° 2'48 | 3♋31 | 12°43 | 10° 7 | 18°27 | 22°42 | 23°48 | 0°56 | 17°22 | 17° 8 | 18°R46 | 19° 1 | 12°47 | n.a. | T 27 |
| W28 | 0 15 28 | 2° 2'50 | 15°29 | 13°36 | 11°19 | 19°10 | 22°55 | 23°54 | 0°53 | 17°21 | 17° 7 | 18°46 | 18°58 | 12°54 | n.a. | W28 |
| T 29 | 0 19 24 | 3° 2'54 | 27°19 | 14°37 | 12°30 | 19°53 | 23° 8 | 24° 1 | 0°51 | 17°20 | 17° 6 | 18°43 | 18°55 | 13° 1 | n.a. | T 29 |
| F 30 | 0 23 21 | 4♎ 3'00 | 9♌ 8 | 15♍44 | 13♏42 | 20♐36 | 23♍21 | 24♌ 7 | 0♈48 | 17♉18 | 17♉ 5 | 18♊38 | 18♊52 | 13♌ 8 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 9n42 | 24n38 | 2n18 | 1s44 | 3s42 | 3s32 | 0s 0 | 22s47 | 2s22 | 6n17 | 1n12 | 16n15 | 1n37 | 0n 7 | 0s43 | 15n35 | 1s46 | 7n10 | 10s27 | 23n27 | 23n21 | 21n44 | | n.a. |
| F 2 | 9 20 | 23 19 | 3 11 | 1 42 | 3 43 | 4 4 | 0 3 | 22 55 | 2 22 | 6 11 | 1 12 | 16 13 | 1 37 | 0 7 | 0 43 | 15 35 | 1 46 | 7 10 | 10 27 | 23 26 | 23 21 | 21 43 | | n.a. |
| S 3 | 8 58 | 20 59 | 3 54 | 1 36 | 3 43 | 4 35 | 0 7 | 23 3 | 2 21 | 6 6 | 1 12 | 16 10 | 1 37 | 0 6 | 0 43 | 15 35 | 1 46 | 7 9 | 10 27 | 23 26 | 23 21 | 21 41 | | n.a. |
| S 4 | 8 35 | 17 44 | 4 28 | 1 25 | 3 41 | 5 7 | 0 10 | 23 11 | 2 21 | 6 1 | 1 12 | 16 8 | 1 37 | 0 5 | 0 43 | 15 35 | 1 46 | 7 9 | 10 27 | 23 25 | 23 21 | 21 40 | | n.a. |
| M 5 | 8 13 | 13 45 | 4 50 | 1 10 | 3 37 | 5 38 | 0 13 | 23 19 | 2 20 | 5 56 | 1 12 | 16 6 | 1 37 | 0 4 | 0 43 | 15 35 | 1 46 | 7 9 | 10 28 | 23 24 | 23 20 | 21 39 | | n.a. |
| T 6 | 7 50 | 9 11 | 5 0 | 0 51 | 3 32 | 6 10 | 0 16 | 23 26 | 2 20 | 5 51 | 1 12 | 16 4 | 1 37 | 0 3 | 0 43 | 15 35 | 1 46 | 7 9 | 10 28 | 23 23 | 23 20 | 21 37 | | n.a. |
| W 7 | 7 28 | 4 13 | 4 55 | 0 26 | 3 25 | 6 41 | 0 20 | 23 33 | 2 20 | 5 46 | 1 12 | 16 1 | 1 37 | 0 2 | 0 43 | 15 35 | 1 46 | 7 8 | 10 28 | 23 22 | 23 20 | 21 36 | | n.a. |
| T 8 | 7 5 | 0s59 | 4 37 | 0n 3 | 3 16 | 7 12 | 0 23 | 23 41 | 2 19 | 5 41 | 1 12 | 15 59 | 1 37 | 0 1 | 0 43 | 15 34 | 1 46 | 7 8 | 10 28 | 23 21 | 23 20 | 21 35 | | n.a. |
| F 9 | 6 42 | 6 13 | 4 5 | 0 36 | 3 6 | 7 43 | 0 26 | 23 48 | 2 19 | 5 35 | 1 12 | 15 57 | 1 38 | 0 0 | 0 43 | 15 34 | 1 46 | 7 8 | 10 28 | 23 21 | 23 19 | 21 33 | | n.a. |
| S 10 | 6 19 | 11 17 | 3 21 | 1 13 | 2 53 | 8 14 | 0 29 | 23 55 | 2 18 | 5 30 | 1 12 | 15 55 | 1 38 | 0s 1 | 0 43 | 15 34 | 1 47 | 7 8 | 10 29 | 23 20 | 23 19 | 21 32 | | n.a. |
| S 11 | 5 56 | 15 57 | 2 26 | 1 54 | 2 38 | 8 45 | 0 33 | 24 1 | 2 18 | 5 25 | 1 12 | 15 52 | 1 38 | 0 2 | 0 43 | 15 34 | 1 47 | 7 7 | 10 29 | 23 20 | 23 19 | 21 31 | | n.a. |
| M12 | 5 32 | 19 57 | 1 21 | 2 37 | 2 22 | 9 15 | 0 36 | 24 8 | 2 17 | 5 20 | 1 12 | 15 50 | 1 38 | 0 3 | 0 43 | 15 34 | 1 47 | 7 7 | 10 29 | 23 20 | 23 19 | 21 29 | | n.a. |
| T 13 | 5 9 | 22 59 | 0 11 | 3 22 | 2 4 | 9 46 | 0 39 | 24 14 | 2 17 | 5 15 | 1 12 | 15 48 | 1 38 | 0 4 | 0 43 | 15 33 | 1 47 | 7 7 | 10 29 | 23 20 | 23 18 | 21 28 | | n.a. |
| W14 | 4 45 | 24 43 | 1s 2 | 4 7 | 1 45 | 10 16 | 0 43 | 24 20 | 2 16 | 5 9 | 1 12 | 15 46 | 1 38 | 0 5 | 0 43 | 15 33 | 1 47 | 7 6 | 10 29 | 23 20 | 23 18 | 21 27 | | n.a. |
| T 15 | 4 22 | 24 55 | 2 12 | 4 52 | 1 25 | 10 45 | 0 46 | 24 26 | 2 16 | 5 4 | 1 12 | 15 44 | 1 38 | 0 6 | 0 43 | 15 33 | 1 47 | 7 6 | 10 29 | 23 20 | 23 18 | 21 25 | | n.a. |
| F 16 | 3 58 | 23 27 | 3 16 | 5 35 | 1 4 | 11 15 | 0 49 | 24 32 | 2 15 | 4 59 | 1 12 | 15 41 | 1 38 | 0 6 | 0 43 | 15 33 | 1 47 | 7 6 | 10 29 | 23 19 | 23 18 | 21 24 | | n.a. |
| S 17 | 3 35 | 20 21 | 4 8 | 6 15 | 0 44 | 11 44 | 0 53 | 24 37 | 2 15 | 4 54 | 1 12 | 15 39 | 1 39 | 0 7 | 0 43 | 15 32 | 1 47 | 7 6 | 10 30 | 23 19 | 23 17 | 21 22 | | n.a. |
| S 18 | 3 11 | 15 53 | 4 43 | 6 52 | 0 24 | 12 13 | 0 56 | 24 42 | 2 14 | 4 49 | 1 12 | 15 37 | 1 39 | 0 8 | 0 43 | 15 32 | 1 47 | 7 5 | 10 30 | 23 18 | 23 17 | 21 21 | | n.a. |
| M19 | 2 47 | 10 25 | 4 59 | 7 24 | 0 4 | 12 42 | 0 59 | 24 47 | 2 14 | 4 43 | 1 12 | 15 35 | 1 39 | 0 9 | 0 43 | 15 32 | 1 47 | 7 5 | 10 30 | 23 17 | 23 17 | 21 20 | | n.a. |
| T 20 | 2 23 | 4 24 | 4 55 | 7 51 | 0n14 | 13 11 | 1 2 | 24 52 | 2 13 | 4 38 | 1 12 | 15 33 | 1 39 | 0 10 | 0 43 | 15 32 | 1 47 | 7 5 | 10 30 | 23 16 | 23 17 | 21 18 | | n.a. |
| W21 | 1 59 | 1n45 | 4 31 | 8 13 | 0 32 | 13 39 | 1 6 | 24 57 | 2 12 | 4 33 | 1 12 | 15 31 | 1 39 | 0 11 | 0 43 | 15 31 | 1 47 | 7 4 | 10 30 | 23 15 | 23 16 | 21 17 | | n.a. |
| T 22 | 1 35 | 7 40 | 3 51 | 8 29 | 0 48 | 14 7 | 1 9 | 25 1 | 2 12 | 4 28 | 1 12 | 15 29 | 1 39 | 0 12 | 0 43 | 15 31 | 1 47 | 7 4 | 10 30 | 23 15 | 23 16 | 21 15 | | n.a. |
| F 23 | 1 11 | 13 2 | 2 58 | 8 39 | 1 2 | 14 35 | 1 12 | 25 6 | 2 11 | 4 23 | 1 12 | 15 27 | 1 39 | 0 13 | 0 43 | 15 31 | 1 47 | 7 4 | 10 30 | 23 14 | 23 16 | 21 14 | | n.a. |
| S 24 | 0 47 | 17 35 | 1 57 | 8 44 | 1 15 | 15 2 | 1 15 | 25 9 | 2 11 | 4 17 | 1 12 | 15 25 | 1 40 | 0 14 | 0 43 | 15 30 | 1 47 | 7 3 | 10 31 | 23 14 | 23 16 | 21 13 | | n.a. |
| S 25 | 0 23 | 21 10 | 0 52 | 8 44 | 1 26 | 15 29 | 1 19 | 25 13 | 2 10 | 4 12 | 1 12 | 15 23 | 1 40 | 0 15 | 0 43 | 15 30 | 1 47 | 7 3 | 10 31 | 23 14 | 23 15 | 21 11 | | n.a. |
| M26 | 0s 1 | 23 39 | 0n14 | 8 38 | 1 36 | 15 55 | 1 22 | 25 17 | 2 9 | 4 7 | 1 12 | 15 20 | 1 40 | 0 16 | 0 43 | 15 30 | 1 47 | 7 3 | 10 31 | 23 14 | 23 15 | 21 10 | | n.a. |
| T 27 | 0 25 | 24 57 | 1 17 | 8 28 | 1 45 | 16 21 | 1 25 | 25 20 | 2 9 | 4 2 | 1 12 | 15 18 | 1 40 | 0 17 | 0 43 | 15 29 | 1 47 | 7 2 | 10 31 | 23 14 | 23 15 | 21 8 | | n.a. |
| W28 | 0 49 | 25 3 | 2 16 | 8 14 | 1 51 | 16 47 | 1 28 | 25 23 | 2 8 | 3 57 | 1 12 | 15 16 | 1 40 | 0 18 | 0 43 | 15 29 | 1 47 | 7 2 | 10 31 | 23 13 | 23 15 | 21 7 | | n.a. |
| T 29 | 1 13 | 24 1 | 3 9 | 7 55 | 1 57 | 17 13 | 1 31 | 25 26 | 2 7 | 3 51 | 1 12 | 15 14 | 1 40 | 0 19 | 0 43 | 15 29 | 1 47 | 7 2 | 10 31 | 23 13 | 23 14 | 21 5 | | n.a. |
| F 30 | 1s38 | 21n55 | 3n53 | 7n33 | 2n 1 | 17s37 | 1s34 | 25s29 | 2s 7 | 3n46 | 1n12 | 15n12 | 1n41 | 0s20 | 0s43 | 15n28 | 1s47 | 7n 1 | 10s31 | 23n13 | 23n14 | 21n 4 | | n.a. |

Julian Day Number = 1690985.5, Delta T = 03h10m30s
Ecliptic obliquity = 23°42'21, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°12'55, Lahiri = - 5°05'54 Julian Calendar 1 Sept. 84 BCE == Greg. Calendar 30 Aug. 084 BCE

The year -83 astronomical counting style corresponds to year 084 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 84 BCE
# geocentric

## OCTOBER 84 BCE (-83) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 0 27 18 | 5♎ 3'08 | 20♌59 | 16♍56 | 14♏54 | 21♐19 | 23♍34 | 24♌13 | 0°R46 | 17°R17 | 17°R 5 | 18°R30 | 18♊49 | 13♌14 | n.a. | S 1 |
| S 2 | 0 31 14 | 6° 3'19 | 2♍57 | 18°12 | 16° 5 | 22° 3 | 23°47 | 24°20 | 0♈43 | 17♉16 | 17♉ 4 | 18♊20 | 18°45 | 13°21 | n.a. | S 2 |
| M 3 | 0 35 11 | 7° 3'31 | 15° 3 | 19°32 | 17°17 | 22°46 | 24° 0 | 24°26 | 0°41 | 17°15 | 17° 3 | 18° 7 | 18°42 | 13°28 | n.a. | M 3 |
| T 4 | 0 39 7 | 8° 3'45 | 27°20 | 20°56 | 18°28 | 23°29 | 24°13 | 24°32 | 0°39 | 17°14 | 17° 2 | 17°54 | 18°39 | 13°34 | n.a. | T 4 |
| W 5 | 0 43 4 | 9° 4'01 | 9♎48 | 22°22 | 19°39 | 24°13 | 24°26 | 24°38 | 0°36 | 17°12 | 17° 1 | 17°41 | 18°36 | 13°41 | n.a. | W 5 |
| T 6 | 0 47 0 | 10° 4'20 | 22°28 | 23°50 | 20°51 | 24°56 | 24°39 | 24°44 | 0°34 | 17°11 | 17° 0 | 17°30 | 18°33 | 13°48 | n.a. | T 6 |
| F 7 | 0 50 57 | 11° 4'40 | 5♏18 | 25°21 | 22° 2 | 25°40 | 24°52 | 24°50 | 0°31 | 17°10 | 16°59 | 17°20 | 18°30 | 13°54 | n.a. | F 7 |
| S 8 | 0 54 53 | 12° 5'01 | 18°19 | 26°52 | 23°13 | 26°24 | 25° 4 | 24°56 | 0°29 | 17° 9 | 16°58 | 17°14 | 18°26 | 14° 1 | n.a. | S 8 |
| S 9 | 0 58 50 | 13° 5'25 | 1♐31 | 28°26 | 24°24 | 27° 7 | 25°17 | 25° 2 | 0°26 | 17° 7 | 16°58 | 17°11 | 18°23 | 14° 8 | n.a. | S 9 |
| M10 | 1 2 47 | 14° 5'50 | 14°55 | 29°59 | 25°35 | 27°51 | 25°30 | 25° 7 | 0°24 | 17° 6 | 16°57 | 17°D 9 | 18°20 | 14°14 | n.a. | M10 |
| T 11 | 1 6 43 | 15° 6'16 | 28°30 | 1♎34 | 26°46 | 28°35 | 25°43 | 25°13 | 0°22 | 17° 5 | 16°56 | 17°10 | 18°17 | 14°21 | n.a. | T 11 |
| W12 | 1 10 40 | 16° 6'44 | 12♑19 | 3°10 | 27°57 | 29°19 | 25°55 | 25°19 | 0°19 | 17° 3 | 16°55 | 17°R10 | 18°14 | 14°28 | n.a. | W12 |
| T 13 | 1 14 36 | 17° 7'14 | 26°21 | 4°46 | 29° 8 | 0♑ 3 | 26° 8 | 25°24 | 0°17 | 17° 2 | 16°54 | 17°10 | 18°10 | 14°35 | n.a. | T 13 |
| F 14 | 1 18 33 | 18° 7'45 | 10♒36 | 6°22 | 0♐19 | 0°47 | 26°21 | 25°30 | 0°15 | 17° 0 | 16°53 | 17° 8 | 18° 7 | 14°41 | n.a. | F 14 |
| S 15 | 1 22 29 | 19° 8'17 | 25° 2 | 7°58 | 1°29 | 1°31 | 26°33 | 25°35 | 0°12 | 16°59 | 16°52 | 17° 3 | 18° 4 | 14°48 | n.a. | S 15 |
| S 16 | 1 26 26 | 20° 8'50 | 9♓35 | 9°34 | 2°40 | 2°15 | 26°46 | 25°41 | 0°10 | 16°57 | 16°51 | 16°56 | 18° 1 | 14°55 | n.a. | S 16 |
| M17 | 1 30 22 | 21° 9'25 | 24°10 | 11°11 | 3°51 | 2°59 | 26°58 | 25°46 | 0° 8 | 16°56 | 16°50 | 16°48 | 17°58 | 15° 1 | n.a. | M17 |
| T 18 | 1 34 19 | 22°10'01 | 8♈40 | 12°47 | 5° 1 | 3°43 | 27°11 | 25°51 | 0° 6 | 16°54 | 16°49 | 16°39 | 17°55 | 15° 8 | n.a. | T 18 |
| W19 | 1 38 15 | 23°10'39 | 22°59 | 14°23 | 6°11 | 4°28 | 27°23 | 25°56 | 0° 3 | 16°53 | 16°48 | 16°30 | 17°51 | 15°15 | n.a. | W19 |
| T 20 | 1 42 12 | 24°11'18 | 6♉59 | 16° 0 | 7°21 | 5°12 | 27°36 | 26° 1 | 0° 1 | 16°51 | 16°47 | 16°23 | 17°48 | 15°21 | n.a. | T 20 |
| F 21 | 1 46 9 | 25°11'59 | 20°37 | 17°36 | 8°32 | 5°56 | 27°48 | 26° 6 | 29♓59 | 16°50 | 16°46 | 16°17 | 17°45 | 15°28 | n.a. | F 21 |
| S 22 | 1 50 5 | 26°12'42 | 3♊52 | 19°12 | 9°42 | 6°41 | 28° 0 | 26°11 | 29°57 | 16°48 | 16°44 | 16°14 | 17°42 | 15°35 | n.a. | S 22 |
| S 23 | 1 54 2 | 27°13'26 | 16°42 | 20°48 | 10°52 | 7°25 | 28°13 | 26°16 | 29°55 | 16°47 | 16°43 | 16°D13 | 17°39 | 15°42 | n.a. | S 23 |
| M24 | 1 57 58 | 28°14'12 | 29°12 | 22°23 | 12° 1 | 8° 9 | 28°25 | 26°21 | 29°53 | 16°45 | 16°42 | 16°14 | 17°36 | 15°48 | n.a. | M24 |
| T 25 | 2 1 55 | 29°15'00 | 11♋25 | 23°59 | 13°11 | 8°54 | 28°37 | 26°25 | 29°51 | 16°43 | 16°41 | 16°16 | 17°32 | 15°55 | n.a. | T 25 |
| W26 | 2 5 51 | 0♏15'49 | 23°25 | 25°34 | 14°21 | 9°38 | 28°49 | 26°30 | 29°49 | 16°42 | 16°40 | 16°17 | 17°29 | 16° 2 | n.a. | W26 |
| T 27 | 2 9 48 | 1°16'40 | 5♌18 | 27° 9 | 15°30 | 10°23 | 29° 1 | 26°35 | 29°47 | 16°40 | 16°39 | 16°R17 | 17°26 | 16° 8 | n.a. | T 27 |
| F 28 | 2 13 45 | 2°17'32 | 17° 8 | 28°45 | 16°40 | 11° 7 | 29°13 | 26°39 | 29°45 | 16°39 | 16°38 | 16°15 | 17°23 | 16°15 | n.a. | F 28 |
| S 29 | 2 17 41 | 3°18'26 | 29° 2 | 0♏19 | 17°49 | 11°52 | 29°25 | 26°43 | 29°43 | 16°37 | 16°37 | 16°12 | 17°20 | 16°22 | n.a. | S 29 |
| S 30 | 2 21 38 | 4°19'21 | 11♍ 2 | 1°54 | 18°58 | 12°37 | 29°37 | 26°48 | 29°41 | 16°35 | 16°36 | 16° 7 | 17°16 | 16°29 | n.a. | S 30 |
| M31 | 2 25 34 | 5♏20'18 | 23♍13 | 3♏29 | 20♐ 7 | 13♑21 | 29♍49 | 26♌52 | 29♓39 | 16♉34 | 16♉34 | 16♊ 0 | 17♊13 | 16♌35 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 2s 2 | 18n53 | 4n28 | 7n 7 | 2n 4 | 18s 2 | 1s37 | 25s31 | 2s 6 | 3n41 | 1n12 | 15n11 | 1n41 | 0s21 | 0s43 | 15n28 | 1s47 | 7n 1 | 10s32 | 23n12 | 23n14 | 21n 2 | | n.a. |
| S 2 | 2 26 | 15 2 | 4 51 | 6 39 | 2 6 | 18 26 | 1 40 | 25 33 | 2 5 | 3 36 | 1 12 | 15 9 | 1 41 | 0 22 | 0 43 | 15 28 | 1 47 | 7 1 | 10 32 | 23 11 | 23 13 | 21 1 | | n.a. |
| M 3 | 2 50 | 10 34 | 5 1 | 6 8 | 2 7 | 18 50 | 1 43 | 25 35 | 2 5 | 3 31 | 1 12 | 15 7 | 1 41 | 0 23 | 0 43 | 15 27 | 1 47 | 7 0 | 10 32 | 23 10 | 23 13 | 20 59 | | n.a. |
| T 4 | 3 14 | 5 36 | 4 57 | 5 35 | 2 7 | 19 13 | 1 46 | 25 36 | 2 4 | 3 26 | 1 12 | 15 5 | 1 41 | 0 24 | 0 43 | 15 27 | 1 48 | 7 0 | 10 32 | 23 9 | 23 13 | 20 58 | | n.a. |
| W 5 | 3 38 | 0 21 | 4 40 | 5 0 | 2 6 | 19 36 | 1 49 | 25 38 | 2 3 | 3 20 | 1 12 | 15 3 | 1 41 | 0 25 | 0 43 | 15 26 | 1 48 | 7 0 | 10 32 | 23 8 | 23 13 | 20 56 | | n.a. |
| T 6 | 4 2 | 5s 0 | 4 8 | 4 23 | 2 5 | 19 58 | 1 52 | 25 39 | 2 3 | 3 15 | 1 12 | 15 1 | 1 42 | 0 26 | 0 43 | 15 26 | 1 48 | 6 59 | 10 32 | 23 7 | 23 12 | 20 55 | | n.a. |
| F 7 | 4 26 | 10 15 | 3 23 | 3 45 | 2 3 | 20 19 | 1 55 | 25 40 | 2 2 | 3 10 | 1 12 | 14 59 | 1 42 | 0 27 | 0 43 | 15 26 | 1 48 | 6 59 | 10 32 | 23 6 | 23 12 | 20 53 | | n.a. |
| S 8 | 4 50 | 15 7 | 2 27 | 3 5 | 2 0 | 20 41 | 1 57 | 25 40 | 2 1 | 3 5 | 1 13 | 14 57 | 1 42 | 0 28 | 0 43 | 15 25 | 1 48 | 6 59 | 10 32 | 23 5 | 23 12 | 20 52 | | n.a. |
| S 9 | 5 13 | 19 21 | 1 22 | 2 25 | 1 57 | 21 1 | 2 0 | 25 41 | 2 0 | 3 0 | 1 13 | 14 56 | 1 42 | 0 29 | 0 43 | 15 25 | 1 48 | 6 58 | 10 32 | 23 5 | 23 12 | 20 50 | | n.a. |
| M10 | 5 37 | 22 39 | 0 12 | 1 44 | 1 53 | 21 21 | 2 3 | 25 41 | 2 0 | 2 55 | 1 13 | 14 54 | 1 42 | 0 30 | 0 43 | 15 24 | 1 48 | 6 58 | 10 32 | 23 5 | 23 11 | 20 49 | | n.a. |
| T 11 | 6 1 | 24 42 | 1s 0 | 1 2 | 1 49 | 21 41 | 2 5 | 25 41 | 1 59 | 2 50 | 1 13 | 14 52 | 1 43 | 0 31 | 0 43 | 15 24 | 1 48 | 6 58 | 10 33 | 23 5 | 23 11 | 20 47 | | n.a. |
| W12 | 6 24 | 25 17 | 2 10 | 0 19 | 1 44 | 22 0 | 2 8 | 25 40 | 1 58 | 2 45 | 1 13 | 14 50 | 1 43 | 0 32 | 0 43 | 15 24 | 1 48 | 6 57 | 10 33 | 23 5 | 23 11 | 20 46 | | n.a. |
| T 13 | 6 48 | 24 17 | 3 13 | 0s24 | 1 39 | 22 18 | 2 10 | 25 40 | 1 57 | 2 40 | 1 13 | 14 49 | 1 43 | 0 33 | 0 43 | 15 23 | 1 48 | 6 57 | 10 33 | 23 5 | 23 10 | 20 44 | | n.a. |
| F 14 | 7 11 | 21 42 | 4 6 | 1 7 | 1 34 | 22 36 | 2 13 | 25 39 | 1 57 | 2 35 | 1 13 | 14 47 | 1 43 | 0 34 | 0 43 | 15 23 | 1 48 | 6 57 | 10 33 | 23 5 | 23 10 | 20 43 | | n.a. |
| S 15 | 7 34 | 17 45 | 4 43 | 1 50 | 1 29 | 22 53 | 2 15 | 25 38 | 1 56 | 2 30 | 1 13 | 14 45 | 1 43 | 0 35 | 0 43 | 15 22 | 1 48 | 6 56 | 10 33 | 23 4 | 23 10 | 20 41 | | n.a. |
| S 16 | 7 58 | 12 43 | 5 2 | 2 34 | 1 23 | 23 10 | 2 17 | 25 36 | 1 55 | 2 25 | 1 13 | 14 43 | 1 44 | 0 35 | 0 43 | 15 22 | 1 48 | 6 56 | 10 33 | 23 3 | 23 10 | 20 39 | | n.a. |
| M17 | 8 21 | 6 57 | 5 2 | 3 17 | 1 17 | 23 26 | 2 19 | 25 35 | 1 54 | 2 20 | 1 13 | 14 42 | 1 44 | 0 36 | 0 43 | 15 21 | 1 48 | 6 56 | 10 33 | 23 3 | 23 9 | 20 38 | | n.a. |
| T 18 | 8 44 | 0 51 | 4 43 | 4 1 | 1 11 | 23 41 | 2 21 | 25 33 | 1 54 | 2 15 | 1 13 | 14 40 | 1 44 | 0 37 | 0 43 | 15 21 | 1 48 | 6 55 | 10 33 | 23 2 | 23 9 | 20 36 | | n.a. |
| W19 | 9 6 | 5n14 | 4 6 | 4 44 | 1 5 | 23 56 | 2 23 | 25 30 | 1 53 | 2 10 | 1 13 | 14 39 | 1 44 | 0 38 | 0 43 | 15 21 | 1 48 | 6 55 | 10 33 | 23 1 | 23 9 | 20 35 | | n.a. |
| T 20 | 9 29 | 10 56 | 3 15 | 5 27 | 0 59 | 24 10 | 2 25 | 25 28 | 1 52 | 2 5 | 1 13 | 14 37 | 1 44 | 0 39 | 0 43 | 15 20 | 1 48 | 6 55 | 10 33 | 23 0 | 23 8 | 20 33 | | n.a. |
| F 21 | 9 51 | 15 58 | 2 13 | 6 11 | 0 52 | 24 24 | 2 27 | 25 25 | 1 51 | 2 0 | 1 13 | 14 36 | 1 45 | 0 40 | 0 43 | 15 20 | 1 48 | 6 54 | 10 33 | 22 59 | 23 8 | 20 32 | | n.a. |
| S 22 | 10 14 | 20 4 | 1 6 | 6 53 | 0 46 | 24 36 | 2 29 | 25 22 | 1 50 | 1 55 | 1 13 | 14 34 | 1 45 | 0 41 | 0 43 | 15 19 | 1 48 | 6 54 | 10 33 | 22 59 | 23 8 | 20 30 | | n.a. |
| S 23 | 10 36 | 23 5 | 0n 3 | 7 36 | 0 39 | 24 48 | 2 31 | 25 19 | 1 49 | 1 50 | 1 14 | 14 33 | 1 45 | 0 41 | 0 43 | 15 19 | 1 48 | 6 54 | 10 33 | 22 59 | 23 7 | 20 28 | | n.a. |
| M24 | 10 58 | 24 52 | 1 10 | 8 18 | 0 33 | 25 0 | 2 32 | 25 16 | 1 49 | 1 46 | 1 14 | 14 31 | 1 45 | 0 42 | 0 43 | 15 18 | 1 48 | 6 53 | 10 33 | 22 59 | 23 7 | 20 27 | | n.a. |
| T 25 | 11 20 | 25 24 | 2 12 | 9 0 | 0 26 | 25 11 | 2 34 | 25 12 | 1 48 | 1 41 | 1 14 | 14 30 | 1 45 | 0 43 | 0 43 | 15 18 | 1 48 | 6 53 | 10 33 | 22 59 | 23 7 | 20 25 | | n.a. |
| W26 | 11 41 | 24 43 | 3 7 | 9 42 | 0 19 | 25 21 | 2 35 | 25 8 | 1 47 | 1 36 | 1 14 | 14 28 | 1 46 | 0 44 | 0 43 | 15 17 | 1 48 | 6 53 | 10 33 | 22 59 | 23 7 | 20 24 | | n.a. |
| T 27 | 12 3 | 22 56 | 3 54 | 10 23 | 0 13 | 25 30 | 2 36 | 25 3 | 1 46 | 1 31 | 1 14 | 14 27 | 1 46 | 0 45 | 0 43 | 15 17 | 1 48 | 6 52 | 10 33 | 22 59 | 23 6 | 20 22 | | n.a. |
| F 28 | 12 24 | 20 9 | 4 31 | 11 3 | 0 6 | 25 38 | 2 38 | 24 59 | 1 45 | 1 27 | 1 14 | 14 26 | 1 46 | 0 45 | 0 43 | 15 16 | 1 48 | 6 52 | 10 33 | 22 59 | 23 6 | 20 20 | | n.a. |
| S 29 | 12 45 | 16 33 | 4 56 | 11 43 | 0s 0 | 25 46 | 2 39 | 24 54 | 1 44 | 1 22 | 1 14 | 14 24 | 1 46 | 0 46 | 0 43 | 15 16 | 1 48 | 6 52 | 10 33 | 22 59 | 23 6 | 20 19 | | n.a. |
| S 30 | 13 6 | 12 15 | 5 8 | 12 23 | 0 7 | 25 54 | 2 40 | 24 49 | 1 44 | 1 17 | 1 14 | 14 23 | 1 47 | 0 47 | 0 43 | 15 15 | 1 48 | 6 51 | 10 33 | 22 58 | 23 5 | 20 17 | | n.a. |
| M31 | 13s27 | 7n24 | 5n 7 | 13s 2 | 0s14 | 26s 0 | 2s41 | 24s44 | 1s43 | 1n12 | 1n14 | 14n22 | 1n47 | 0s48 | 0s43 | 15n15 | 1s48 | 6n51 | 10s33 | 22n58 | 23n 5 | 20n15 | | n.a. |

Julian Day Number = 1691015.5, Delta T = 03h10m29s
Ecliptic obliquity = 23°42'21, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°12'51, Lahiri = - 5°05'50 Julian Calendar 1 Oct. 84 BCE == Greg. Calendar 29 Sept. 084 BCE

The year -83 astronomical counting style corresponds to year 084 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 84 BCE
# geocentric

## NOVEMBER 84 BCE (-83) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 2 29 31 | 6♏21'16 | 5♎38 | 5♏ 4 | 21♐16 | 14♑ 6 | 0♎ 1 | 26♌56 | 29°R37 | 16°R32 | 16°R33 | 15°R53 | 17♊10 | 16♌42 | n.a. | T 1 |
| W 2 | 2 33 27 | 7°22'16 | 18°19 | 6°38 | 22°25 | 14°51 | 0°13 | 27° 0 | 29♓35 | 16♉30 | 16♉32 | 15♊45 | 17° 7 | 16°49 | n.a. | W 2 |
| T 3 | 2 37 24 | 8°23'16 | 1♏15 | 8°13 | 23°33 | 15°35 | 0°24 | 27° 4 | 29°33 | 16°29 | 16°31 | 15°39 | 17° 4 | 16°55 | n.a. | T 3 |
| F 4 | 2 41 20 | 9°24'18 | 14°26 | 9°47 | 24°42 | 16°20 | 0°36 | 27° 8 | 29°32 | 16°27 | 16°30 | 15°34 | 17° 1 | 17° 2 | n.a. | F 4 |
| S 5 | 2 45 17 | 10°25'21 | 27°52 | 11°21 | 25°50 | 17° 5 | 0°47 | 27°12 | 29°30 | 16°25 | 16°29 | 15°31 | 16°57 | 17° 9 | n.a. | S 5 |
| S 6 | 2 49 13 | 11°26'25 | 11♐29 | 12°56 | 26°58 | 17°50 | 0°59 | 27°15 | 29°28 | 16°23 | 16°28 | 15°D29 | 16°54 | 17°15 | n.a. | S 6 |
| M 7 | 2 53 10 | 12°27'29 | 25°16 | 14°30 | 28° 6 | 18°35 | 1°10 | 27°19 | 29°27 | 16°22 | 16°26 | 15°30 | 16°51 | 17°22 | n.a. | M 7 |
| T 8 | 2 57 7 | 13°28'35 | 9♑11 | 16° 4 | 29°14 | 19°19 | 1°21 | 27°22 | 29°25 | 16°20 | 16°25 | 15°31 | 16°48 | 17°29 | n.a. | T 8 |
| W 9 | 3 1 3 | 14°29'41 | 23°12 | 17°38 | 0♑22 | 20° 4 | 1°33 | 27°26 | 29°24 | 16°18 | 16°24 | 15°32 | 16°45 | 17°36 | n.a. | W 9 |
| T 10 | 3 5 0 | 15°30'48 | 7♒18 | 19°13 | 1°29 | 20°49 | 1°44 | 27°29 | 29°22 | 16°17 | 16°23 | 15°34 | 16°42 | 17°42 | n.a. | T 10 |
| F 11 | 3 8 56 | 16°31'55 | 21°28 | 20°47 | 2°37 | 21°34 | 1°55 | 27°32 | 29°21 | 16°15 | 16°22 | 15°R34 | 16°38 | 17°49 | n.a. | F 11 |
| S 12 | 3 12 53 | 17°33'02 | 5♓39 | 22°22 | 3°44 | 22°19 | 2° 6 | 27°35 | 29°19 | 16°13 | 16°21 | 15°33 | 16°35 | 17°56 | n.a. | S 12 |
| S 13 | 3 16 49 | 18°34'10 | 19°49 | 23°56 | 4°51 | 23° 4 | 2°17 | 27°38 | 29°18 | 16°12 | 16°19 | 15°30 | 16°32 | 18° 2 | n.a. | S 13 |
| M14 | 3 20 46 | 19°35'18 | 3♈56 | 25°31 | 5°58 | 23°49 | 2°28 | 27°41 | 29°16 | 16°10 | 16°18 | 15°27 | 16°29 | 18° 9 | n.a. | M14 |
| T 15 | 3 24 43 | 20°36'27 | 17°56 | 27° 5 | 7° 4 | 24°34 | 2°38 | 27°44 | 29°15 | 16° 8 | 16°17 | 15°23 | 16°26 | 18°16 | n.a. | T 15 |
| W16 | 3 28 39 | 21°37'36 | 1♉46 | 28°40 | 8°10 | 25°19 | 2°49 | 27°47 | 29°14 | 16° 6 | 16°16 | 15°19 | 16°22 | 18°23 | n.a. | W16 |
| T 17 | 3 32 36 | 22°38'46 | 15°22 | 0♐15 | 9°16 | 26° 4 | 3° 0 | 27°49 | 29°13 | 16° 5 | 16°15 | 15°16 | 16°19 | 18°29 | n.a. | T 17 |
| F 18 | 3 36 32 | 23°39'57 | 28°41 | 1°50 | 10°22 | 26°48 | 3°10 | 27°52 | 29°12 | 16° 3 | 16°14 | 15°14 | 16°16 | 18°36 | n.a. | F 18 |
| S 19 | 3 40 29 | 24°41'08 | 11♊44 | 3°25 | 11°28 | 27°33 | 3°21 | 27°54 | 29°10 | 16° 1 | 16°13 | 15°D13 | 16°13 | 18°43 | n.a. | S 19 |
| S 20 | 3 44 25 | 25°42'19 | 24°28 | 5° 0 | 12°33 | 28°18 | 3°31 | 27°56 | 29° 9 | 16° 0 | 16°11 | 15°13 | 16°10 | 18°49 | n.a. | S 20 |
| M21 | 3 48 22 | 26°43'31 | 6♋55 | 6°35 | 13°38 | 29° 3 | 3°41 | 27°59 | 29° 8 | 15°58 | 16°10 | 15°14 | 16° 7 | 18°56 | n.a. | M21 |
| T 22 | 3 52 18 | 27°44'44 | 19° 8 | 8°10 | 14°43 | 29°48 | 3°51 | 28° 1 | 29° 7 | 15°56 | 16° 9 | 15°16 | 16° 3 | 19° 3 | n.a. | T 22 |
| W23 | 3 56 15 | 28°45'58 | 1♌10 | 9°45 | 15°47 | 0♒33 | 4° 1 | 28° 3 | 29° 7 | 15°55 | 16° 8 | 15°17 | 16° 0 | 19° 9 | n.a. | W23 |
| T 24 | 4 0 12 | 29°47'11 | 13° 4 | 11°21 | 16°51 | 1°18 | 4°11 | 28° 4 | 29° 6 | 15°53 | 16° 7 | 15°19 | 15°57 | 19°16 | n.a. | T 24 |
| F 25 | 4 4 8 | 0♐48'26 | 24°55 | 12°56 | 17°55 | 2° 3 | 4°21 | 28° 6 | 29° 5 | 15°51 | 16° 6 | 15°19 | 15°54 | 19°23 | n.a. | F 25 |
| S 26 | 4 8 5 | 1°49'41 | 6♍49 | 14°31 | 18°59 | 2°48 | 4°31 | 28° 8 | 29° 4 | 15°50 | 16° 5 | 15°R19 | 15°51 | 19°30 | n.a. | S 26 |
| S 27 | 4 12 1 | 2°50'56 | 18°49 | 16° 5 | 20° 2 | 3°33 | 4°40 | 28° 9 | 29° 3 | 15°48 | 16° 4 | 15°19 | 15°48 | 19°36 | n.a. | S 27 |
| M28 | 4 15 58 | 3°52'12 | 1♎ 0 | 17°40 | 21° 5 | 4°18 | 4°50 | 28°11 | 29° 3 | 15°47 | 16° 2 | 15°18 | 15°44 | 19°43 | n.a. | M28 |
| T 29 | 4 19 54 | 4°53'28 | 13°28 | 19°14 | 22° 8 | 5° 2 | 4°59 | 28°12 | 29° 2 | 15°45 | 16° 1 | 15°16 | 15°41 | 19°50 | n.a. | T 29 |
| W30 | 4 23 51 | 5♐54'44 | 26♎13 | 20♐47 | 23♑10 | 5♒47 | 5♎ 9 | 28♌14 | 29♓ 1 | 15♉43 | 16♉ 0 | 15♊15 | 15♊38 | 19♌56 | n.a. | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 13 s47 | 2n11 | 4n51 | 13 s40 | 0 s20 | 26 s 6 | 2 s41 | 24 s38 | 1 s42 | 1n 8 | 1n14 | 14n21 | 1n47 | 0 s48 | 0 s43 | 15n14 | 1 s48 | 6n51 | 10 s33 | 22n57 | 23n 5 | 20n14 | | n.a. |
| W 2 | 14 7 | 3 s14 | 4 21 | 14 18 | 0 27 | 26 11 | 2 42 | 24 32 | 1 41 | 1 3 | 1 15 | 14 20 | 1 47 | 0 49 | 0 43 | 15 14 | 1 48 | 6 50 | 10 33 | 22 56 | 23 4 | 20 12 | | n.a. |
| T 3 | 14 27 | 8 39 | 3 37 | 14 55 | 0 33 | 26 15 | 2 43 | 24 26 | 1 40 | 0 59 | 1 15 | 14 18 | 1 48 | 0 50 | 0 43 | 15 13 | 1 48 | 6 50 | 10 33 | 22 55 | 23 4 | 20 10 | | n.a. |
| F 4 | 14 47 | 13 47 | 2 41 | 15 31 | 0 39 | 26 19 | 2 43 | 24 20 | 1 39 | 0 54 | 1 15 | 14 17 | 1 48 | 0 50 | 0 43 | 15 13 | 1 48 | 6 50 | 10 33 | 22 55 | 23 4 | 20 9 | | n.a. |
| S 5 | 15 7 | 18 22 | 1 35 | 16 7 | 0 45 | 26 22 | 2 43 | 24 14 | 1 38 | 0 50 | 1 15 | 14 16 | 1 48 | 0 51 | 0 43 | 15 12 | 1 48 | 6 50 | 10 33 | 22 54 | 23 3 | 20 7 | | n.a. |
| S 6 | 15 26 | 22 3 | 0 22 | 16 42 | 0 51 | 26 24 | 2 44 | 24 7 | 1 37 | 0 45 | 1 15 | 14 15 | 1 48 | 0 52 | 0 43 | 15 12 | 1 48 | 6 49 | 10 33 | 22 54 | 23 3 | 20 5 | | n.a. |
| M 7 | 15 45 | 24 30 | 0 s53 | 17 17 | 0 57 | 26 25 | 2 44 | 24 0 | 1 37 | 0 41 | 1 15 | 14 14 | 1 49 | 0 52 | 0 43 | 15 11 | 1 48 | 6 49 | 10 33 | 22 54 | 23 3 | 20 4 | | n.a. |
| T 8 | 16 4 | 25 29 | 2 6 | 17 50 | 1 3 | 26 26 | 2 44 | 23 52 | 1 36 | 0 36 | 1 15 | 14 13 | 1 49 | 0 53 | 0 43 | 15 11 | 1 48 | 6 49 | 10 33 | 22 54 | 23 3 | 20 2 | | n.a. |
| W 9 | 16 22 | 24 50 | 3 12 | 18 23 | 1 9 | 26 26 | 2 43 | 23 45 | 1 35 | 0 32 | 1 15 | 14 12 | 1 49 | 0 54 | 0 43 | 15 10 | 1 48 | 6 48 | 10 33 | 22 55 | 23 2 | 20 0 | | n.a. |
| T 10 | 16 40 | 22 37 | 4 6 | 18 55 | 1 14 | 26 25 | 2 43 | 23 37 | 1 34 | 0 27 | 1 16 | 14 11 | 1 49 | 0 54 | 0 42 | 15 10 | 1 48 | 6 48 | 10 33 | 22 55 | 23 2 | 19 59 | | n.a. |
| F 11 | 16 58 | 19 1 | 4 46 | 19 26 | 1 20 | 26 23 | 2 43 | 23 29 | 1 33 | 0 23 | 1 16 | 14 10 | 1 49 | 0 55 | 0 42 | 15 10 | 1 48 | 6 48 | 10 33 | 22 55 | 23 2 | 19 57 | | n.a. |
| S 12 | 17 15 | 14 19 | 5 9 | 19 56 | 1 25 | 26 21 | 2 42 | 23 21 | 1 32 | 0 19 | 1 16 | 14 10 | 1 50 | 0 55 | 0 42 | 15 9 | 1 48 | 6 48 | 10 33 | 22 55 | 23 1 | 19 55 | | n.a. |
| S 13 | 17 33 | 8 51 | 5 12 | 20 25 | 1 30 | 26 18 | 2 41 | 23 12 | 1 31 | 0 14 | 1 16 | 14 9 | 1 50 | 0 56 | 0 42 | 15 9 | 1 48 | 6 47 | 10 33 | 22 54 | 23 1 | 19 53 | | n.a. |
| M14 | 17 50 | 2 58 | 4 57 | 20 53 | 1 34 | 26 15 | 2 41 | 23 4 | 1 30 | 0 10 | 1 16 | 14 8 | 1 50 | 0 56 | 0 42 | 15 8 | 1 48 | 6 47 | 10 33 | 22 54 | 23 1 | 19 52 | | n.a. |
| T 15 | 18 6 | 3n 2 | 4 25 | 21 20 | 1 39 | 26 10 | 2 40 | 22 55 | 1 29 | 0 6 | 1 16 | 14 7 | 1 51 | 0 57 | 0 42 | 15 8 | 1 48 | 6 47 | 10 33 | 22 54 | 23 0 | 19 50 | | n.a. |
| W16 | 18 22 | 8 50 | 3 37 | 21 46 | 1 43 | 26 5 | 2 39 | 22 46 | 1 29 | 0 2 | 1 16 | 14 7 | 1 51 | 0 57 | 0 42 | 15 7 | 1 48 | 6 46 | 10 33 | 22 53 | 23 0 | 19 48 | | n.a. |
| T 17 | 18 38 | 14 7 | 2 37 | 22 11 | 1 47 | 26 0 | 2 37 | 22 36 | 1 28 | 0 s 2 | 1 16 | 14 6 | 1 51 | 0 58 | 0 42 | 15 7 | 1 48 | 6 46 | 10 33 | 22 53 | 23 0 | 19 46 | | n.a. |
| F 18 | 18 54 | 18 38 | 1 30 | 22 34 | 1 51 | 25 53 | 2 36 | 22 27 | 1 27 | 0 6 | 1 17 | 14 5 | 1 51 | 0 58 | 0 42 | 15 6 | 1 48 | 6 46 | 10 33 | 22 53 | 22 59 | 19 45 | | n.a. |
| S 19 | 19 9 | 22 8 | 0 19 | 22 57 | 1 55 | 25 46 | 2 34 | 22 17 | 1 26 | 0 10 | 1 17 | 14 5 | 1 52 | 0 59 | 0 42 | 15 6 | 1 48 | 6 46 | 10 33 | 22 53 | 22 59 | 19 43 | | n.a. |
| S 20 | 19 24 | 24 26 | 0n51 | 23 18 | 1 58 | 25 38 | 2 33 | 22 7 | 1 25 | 0 14 | 1 17 | 14 4 | 1 52 | 0 59 | 0 42 | 15 5 | 1 48 | 6 45 | 10 33 | 22 53 | 22 59 | 19 41 | | n.a. |
| M21 | 19 38 | 25 28 | 1 57 | 23 38 | 2 1 | 25 30 | 2 31 | 21 57 | 1 24 | 0 18 | 1 17 | 14 4 | 1 52 | 0 59 | 0 42 | 15 5 | 1 48 | 6 45 | 10 33 | 22 53 | 22 58 | 19 39 | | n.a. |
| T 22 | 19 53 | 25 14 | 2 57 | 23 57 | 2 4 | 25 21 | 2 29 | 21 46 | 1 23 | 0 22 | 1 17 | 14 3 | 1 52 | 1 0 | 0 42 | 15 4 | 1 48 | 6 45 | 10 33 | 22 53 | 22 58 | 19 38 | | n.a. |
| W23 | 20 6 | 23 49 | 3 47 | 24 14 | 2 6 | 25 11 | 2 27 | 21 36 | 1 22 | 0 26 | 1 17 | 14 3 | 1 53 | 1 0 | 0 42 | 15 4 | 1 48 | 6 45 | 10 32 | 22 53 | 22 58 | 19 36 | | n.a. |
| T 24 | 20 20 | 21 21 | 4 28 | 24 30 | 2 8 | 25 1 | 2 24 | 21 25 | 1 21 | 0 30 | 1 18 | 14 2 | 1 53 | 1 0 | 0 42 | 15 3 | 1 48 | 6 45 | 10 32 | 22 53 | 22 57 | 19 34 | | n.a. |
| F 25 | 20 33 | 18 0 | 4 57 | 24 44 | 2 9 | 24 50 | 2 22 | 21 14 | 1 20 | 0 34 | 1 18 | 14 2 | 1 53 | 1 1 | 0 42 | 15 3 | 1 48 | 6 44 | 10 32 | 22 53 | 22 57 | 19 32 | | n.a. |
| S 26 | 20 45 | 13 56 | 5 13 | 24 57 | 2 10 | 24 38 | 2 19 | 21 2 | 1 19 | 0 37 | 1 18 | 14 1 | 1 53 | 1 1 | 0 42 | 15 2 | 1 48 | 6 44 | 10 32 | 22 53 | 22 57 | 19 30 | | n.a. |
| S 27 | 20 58 | 9 18 | 5 16 | 25 8 | 2 11 | 24 26 | 2 16 | 20 51 | 1 18 | 0 41 | 1 18 | 14 1 | 1 54 | 1 1 | 0 42 | 15 2 | 1 48 | 6 44 | 10 32 | 22 53 | 22 56 | 19 29 | | n.a. |
| M28 | 21 10 | 4 15 | 5 5 | 25 18 | 2 11 | 24 14 | 2 13 | 20 39 | 1 18 | 0 45 | 1 18 | 14 1 | 1 54 | 1 1 | 0 42 | 15 2 | 1 48 | 6 44 | 10 32 | 22 53 | 22 56 | 19 27 | | n.a. |
| T 29 | 21 21 | 1 s 5 | 4 39 | 25 26 | 2 10 | 24 0 | 2 10 | 20 27 | 1 17 | 0 48 | 1 18 | 14 1 | 1 54 | 1 2 | 0 42 | 15 1 | 1 48 | 6 44 | 10 32 | 22 53 | 22 56 | 19 25 | | n.a. |
| W30 | 21 s32 | 6 s31 | 3n59 | 25 s32 | 2 s 9 | 23 s47 | 2 s 7 | 20 s15 | 1 s16 | 0 s52 | 1n19 | 14n 1 | 1n54 | 1 s 2 | 0 s42 | 15n 1 | 1 s48 | 6n43 | 10 s32 | 22n53 | 22n55 | 19n23 | | n.a. |

Julian Day Number = 1691046.5, Delta T = 03h10m28s
Ecliptic obliquity = 23°42'21, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°12'46, Lahiri = - 5°05'46 Julian Calendar 1 Nov. 84 BCE == Greg. Calendar 30 Oct. 084 BCE

The year -83 astronomical counting style corresponds to year 084 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 84 BCE
# geocentric

## DECEMBER 84 BCE (-83) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 4 27 47 | 6♐56'01 | 9♏19 | 22♐20 | 24♑12 | 6♒32 | 5♎18 | 28♌15 | 29°R 1 | 15°R42 | 15°R59 | 15°R14 | 15♊35 | 20♌ 3 | n.a. | T 1 |
| F 2 | 4 31 44 | 7°57'18 | 22°46 | 23°52 | 25°13 | 7°17 | 5°27 | 28°16 | 29♓ 0 | 15♉40 | 15♉58 | 15♊13 | 15°32 | 20°10 | n.a. | F 2 |
| S 3 | 4 35 41 | 8°58'35 | 6♐33 | 25°23 | 26°14 | 8° 2 | 5°36 | 28°17 | 29° 0 | 15°39 | 15°57 | 15°12 | 15°28 | 20°17 | n.a. | S 3 |
| S 4 | 4 39 37 | 9°59'52 | 20°36 | 26°52 | 27°15 | 8°47 | 5°45 | 28°17 | 29° 0 | 15°37 | 15°56 | 15°D12 | 15°25 | 20°23 | n.a. | S 4 |
| M 5 | 4 43 34 | 11° 1'09 | 4♑53 | 28°20 | 28°15 | 9°32 | 5°53 | 28°18 | 28°59 | 15°36 | 15°55 | 15°13 | 15°22 | 20°30 | n.a. | M 5 |
| T 6 | 4 47 30 | 12° 2'25 | 19°17 | 29°46 | 29°15 | 10°17 | 6° 2 | 28°19 | 28°59 | 15°34 | 15°54 | 15°13 | 15°19 | 20°37 | n.a. | T 6 |
| W 7 | 4 51 27 | 13° 3'41 | 3♒44 | 1♑10 | 0♒14 | 11° 1 | 6°10 | 28°19 | 28°59 | 15°33 | 15°53 | 15°13 | 15°16 | 20°43 | n.a. | W 7 |
| T 8 | 4 55 23 | 14° 4'57 | 18° 9 | 2°31 | 1°13 | 11°46 | 6°19 | 28°19 | 28°59 | 15°31 | 15°52 | 15°13 | 15°13 | 20°50 | n.a. | T 8 |
| F 9 | 4 59 20 | 15° 6'12 | 2♓28 | 3°48 | 2°12 | 12°31 | 6°27 | 28°20 | 28°59 | 15°30 | 15°51 | 15°R13 | 15° 9 | 20°57 | n.a. | F 9 |
| S 10 | 5 3 17 | 16° 7'26 | 16°38 | 5° 1 | 3° 9 | 13°16 | 6°35 | 28°20 | 28°59 | 15°28 | 15°50 | 15°D13 | 15° 6 | 21° 4 | n.a. | S 10 |
| S 11 | 5 7 13 | 17° 8'40 | 0♈38 | 6°10 | 4° 7 | 14° 1 | 6°43 | 28°R20 | 28°D59 | 15°27 | 15°49 | 15°13 | 15° 3 | 21°10 | n.a. | S 11 |
| M12 | 5 11 10 | 18° 9'53 | 14°25 | 7°14 | 5° 3 | 14°45 | 6°51 | 28°20 | 28°59 | 15°26 | 15°48 | 15°14 | 15° 0 | 21°17 | n.a. | M12 |
| T 13 | 5 15 6 | 19°11'05 | 27°59 | 8°11 | 6° 0 | 15°30 | 6°59 | 28°20 | 28°59 | 15°24 | 15°47 | 15°14 | 14°57 | 21°24 | n.a. | T 13 |
| W14 | 5 19 3 | 20°12'17 | 11♉21 | 9° 2 | 6°55 | 16°15 | 7° 6 | 28°19 | 28°59 | 15°23 | 15°46 | 15°14 | 14°54 | 21°30 | n.a. | W14 |
| T 15 | 5 22 59 | 21°13'28 | 24°30 | 9°44 | 7°50 | 16°59 | 7°14 | 28°19 | 28°59 | 15°22 | 15°45 | 15°15 | 14°50 | 21°37 | n.a. | T 15 |
| F 16 | 5 26 56 | 22°14'38 | 7♊25 | 10°18 | 8°44 | 17°44 | 7°21 | 28°18 | 28°59 | 15°20 | 15°44 | 15°15 | 14°47 | 21°44 | n.a. | F 16 |
| S 17 | 5 30 52 | 23°15'48 | 20° 8 | 10°42 | 9°38 | 18°29 | 7°28 | 28°18 | 29° 0 | 15°19 | 15°43 | 15°R15 | 14°44 | 21°51 | n.a. | S 17 |
| S 18 | 5 34 49 | 24°16'57 | 2♋39 | 10°56 | 10°31 | 19°13 | 7°35 | 28°17 | 29° 0 | 15°18 | 15°42 | 15°15 | 14°41 | 21°57 | n.a. | S 18 |
| M19 | 5 38 46 | 25°18'05 | 14°57 | 10°R59 | 11°23 | 19°58 | 7°42 | 28°16 | 29° 0 | 15°16 | 15°42 | 15°14 | 14°38 | 22° 4 | n.a. | M19 |
| T 20 | 5 42 42 | 26°19'13 | 27° 6 | 10°50 | 12°14 | 20°42 | 7°49 | 28°15 | 29° 1 | 15°15 | 15°41 | 15°12 | 14°34 | 22°11 | n.a. | T 20 |
| W21 | 5 46 39 | 27°20'20 | 9♌ 5 | 10°29 | 13° 5 | 21°27 | 7°55 | 28°14 | 29° 1 | 15°14 | 15°40 | 15°11 | 14°31 | 22°17 | n.a. | W21 |
| T 22 | 5 50 35 | 28°21'27 | 20°59 | 9°57 | 13°54 | 22°12 | 8° 2 | 28°13 | 29° 2 | 15°13 | 15°39 | 15° 9 | 14°28 | 22°24 | n.a. | T 22 |
| F 23 | 5 54 32 | 29°22'33 | 2♍51 | 9°14 | 14°43 | 22°56 | 8° 8 | 28°12 | 29° 3 | 15°12 | 15°38 | 15° 7 | 14°25 | 22°31 | n.a. | F 23 |
| S 24 | 5 58 28 | 0♑23'38 | 14°44 | 8°21 | 15°31 | 23°40 | 8°14 | 28°11 | 29° 3 | 15°11 | 15°38 | 15° 5 | 14°22 | 22°38 | n.a. | S 24 |
| S 25 | 6 2 25 | 1°24'43 | 26°42 | 7°20 | 16°18 | 24°25 | 8°20 | 28° 9 | 29° 4 | 15°10 | 15°37 | 15°D 5 | 14°19 | 22°44 | n.a. | S 25 |
| M26 | 6 6 21 | 2°25'47 | 8♎50 | 6°12 | 17° 5 | 25° 9 | 8°26 | 28° 8 | 29° 5 | 15° 9 | 15°36 | 15° 5 | 14°15 | 22°51 | n.a. | M26 |
| T 27 | 6 10 18 | 3°26'50 | 21°14 | 4°58 | 17°50 | 25°54 | 8°32 | 28° 6 | 29° 6 | 15° 8 | 15°35 | 15° 6 | 14°12 | 22°58 | n.a. | T 27 |
| W28 | 6 14 15 | 4°27'52 | 3♏56 | 3°43 | 18°34 | 26°38 | 8°37 | 28° 4 | 29° 6 | 15° 7 | 15°35 | 15° 7 | 14° 9 | 23° 4 | n.a. | W28 |
| T 29 | 6 18 11 | 5°28'54 | 17° 2 | 2°27 | 19°17 | 27°22 | 8°42 | 28° 2 | 29° 7 | 15° 6 | 15°34 | 15° 8 | 14° 6 | 23°11 | n.a. | T 29 |
| F 30 | 6 22 8 | 6°29'55 | 0♐33 | 1°14 | 19°59 | 28° 7 | 8°48 | 28° 0 | 29° 8 | 15° 5 | 15°33 | 15°10 | 14° 3 | 23°18 | n.a. | F 30 |
| S 31 | 6 26 4 | 7♑30'56 | 14♐29 | 0♑ 4 | 20♒39 | 28♒51 | 8♎53 | 27♌58 | 29♓ 9 | 15♉ 4 | 15♉32 | 15°R10 | 14♊ 0 | 23♌25 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| T 1 | 21s43 | 11s49 | 3n 6 | 25s36 | 2s 8 | 23s32 | 2s 4 | 20s 3 | 1s15 | 0s55 | 1n19 | 14n 0 | 1n55 | 1s 2 | 0s42 | 15n 0 | 1s48 | 6n43 | 10s32 | 22n53 | 22n55 | 19n21 | | | n.a. |
| F 2 | 21 53 | 16 43 | 2 1 | 25 39 | 2 6 | 23 18 | 2 0 | 19 51 | 1 14 | 0 59 | 1 19 | 14 0 | 1 55 | 1 2 | 0 42 | 15 0 | 1 48 | 6 43 | 10 31 | 22 53 | 22 55 | 19 20 | | | n.a. |
| S 3 | 22 2 | 20 51 | 0 48 | 25 40 | 2 3 | 23 2 | 1 56 | 19 38 | 1 13 | 1 2 | 1 19 | 14 0 | 1 55 | 1 2 | 0 42 | 14 59 | 1 48 | 6 43 | 10 31 | 22 52 | 22 54 | 19 18 | | | n.a. |
| S 4 | 22 12 | 23 52 | 0s30 | 25 39 | 1 59 | 22 46 | 1 52 | 19 25 | 1 12 | 1 6 | 1 19 | 14 0 | 1 56 | 1 2 | 0 42 | 14 59 | 1 48 | 6 43 | 10 31 | 22 52 | 22 54 | 19 16 | | | n.a. |
| M 5 | 22 21 | 25 24 | 1 47 | 25 36 | 1 55 | 22 30 | 1 48 | 19 12 | 1 11 | 1 9 | 1 20 | 14 0 | 1 56 | 1 2 | 0 42 | 14 59 | 1 48 | 6 42 | 10 31 | 22 52 | 22 54 | 19 14 | | | n.a. |
| T 6 | 22 29 | 25 14 | 2 58 | 25 32 | 1 50 | 22 13 | 1 44 | 18 59 | 1 10 | 1 12 | 1 20 | 14 0 | 1 56 | 1 3 | 0 42 | 14 58 | 1 48 | 6 42 | 10 31 | 22 53 | 22 53 | 19 12 | | | n.a. |
| W 7 | 22 37 | 23 23 | 3 58 | 25 25 | 1 43 | 21 56 | 1 39 | 18 46 | 1 9 | 1 15 | 1 20 | 14 0 | 1 56 | 1 3 | 0 41 | 14 58 | 1 48 | 6 42 | 10 31 | 22 53 | 22 53 | 19 10 | | | n.a. |
| T 8 | 22 45 | 20 2 | 4 43 | 25 17 | 1 36 | 21 39 | 1 34 | 18 32 | 1 8 | 1 19 | 1 20 | 14 0 | 1 57 | 1 3 | 0 41 | 14 57 | 1 47 | 6 42 | 10 31 | 22 53 | 22 52 | 19 9 | | | n.a. |
| F 9 | 22 52 | 15 31 | 5 9 | 25 8 | 1 29 | 21 21 | 1 29 | 18 19 | 1 7 | 1 22 | 1 20 | 14 1 | 1 57 | 1 3 | 0 41 | 14 57 | 1 47 | 6 42 | 10 30 | 22 53 | 22 52 | 19 7 | | | n.a. |
| S 10 | 22 58 | 10 11 | 5 17 | 24 56 | 1 20 | 21 2 | 1 24 | 18 5 | 1 7 | 1 25 | 1 20 | 14 1 | 1 57 | 1 3 | 0 41 | 14 57 | 1 47 | 6 42 | 10 30 | 22 53 | 22 52 | 19 5 | | | n.a. |
| S 11 | 23 5 | 4 25 | 5 6 | 24 43 | 1 10 | 20 43 | 1 19 | 17 51 | 1 6 | 1 28 | 1 21 | 14 1 | 1 57 | 1 3 | 0 41 | 14 56 | 1 47 | 6 42 | 10 30 | 22 53 | 22 51 | 19 3 | | | n.a. |
| M12 | 23 10 | 1n29 | 4 37 | 24 29 | 0 59 | 20 24 | 1 14 | 17 37 | 1 5 | 1 31 | 1 21 | 14 1 | 1 58 | 1 2 | 0 41 | 14 56 | 1 47 | 6 42 | 10 30 | 22 53 | 22 51 | 19 1 | | | n.a. |
| T 13 | 23 16 | 7 15 | 3 53 | 24 13 | 0 46 | 20 5 | 1 8 | 17 23 | 1 4 | 1 34 | 1 21 | 14 2 | 1 58 | 1 2 | 0 41 | 14 56 | 1 47 | 6 41 | 10 30 | 22 53 | 22 51 | 18 59 | | | n.a. |
| W14 | 23 20 | 12 36 | 2 57 | 23 57 | 0 33 | 19 45 | 1 2 | 17 8 | 1 3 | 1 36 | 1 21 | 14 2 | 1 58 | 1 2 | 0 41 | 14 55 | 1 47 | 6 41 | 10 30 | 22 53 | 22 50 | 18 57 | | | n.a. |
| T 15 | 23 25 | 17 17 | 1 53 | 23 39 | 0 19 | 19 25 | 0 56 | 16 54 | 1 2 | 1 39 | 1 22 | 14 2 | 1 59 | 1 2 | 0 41 | 14 55 | 1 47 | 6 41 | 10 29 | 22 53 | 22 50 | 18 55 | | | n.a. |
| F 16 | 23 29 | 21 5 | 0 43 | 23 21 | 0 3 | 19 4 | 0 50 | 16 39 | 1 1 | 1 42 | 1 22 | 14 3 | 1 59 | 1 2 | 0 41 | 14 54 | 1 47 | 6 41 | 10 29 | 22 53 | 22 50 | 18 53 | | | n.a. |
| S 17 | 23 32 | 23 47 | 0n27 | 23 3 | 0n13 | 18 44 | 0 43 | 16 24 | 1 0 | 1 45 | 1 22 | 14 3 | 1 59 | 1 2 | 0 41 | 14 54 | 1 47 | 6 41 | 10 29 | 22 53 | 22 49 | 18 52 | | | n.a. |
| S 18 | 23 35 | 25 16 | 1 35 | 22 44 | 0 31 | 18 23 | 0 37 | 16 10 | 0 59 | 1 47 | 1 22 | 14 4 | 1 59 | 1 2 | 0 41 | 14 54 | 1 47 | 6 41 | 10 29 | 22 53 | 22 49 | 18 50 | | | n.a. |
| M19 | 23 37 | 25 28 | 2 37 | 22 26 | 0 49 | 18 2 | 0 30 | 15 54 | 0 58 | 1 50 | 1 22 | 14 4 | 2 0 | 1 2 | 0 41 | 14 54 | 1 47 | 6 41 | 10 29 | 22 53 | 22 49 | 18 48 | | | n.a. |
| T 20 | 23 39 | 24 26 | 3 31 | 22 8 | 1 8 | 17 41 | 0 23 | 15 39 | 0 57 | 1 52 | 1 23 | 14 5 | 2 0 | 1 1 | 0 41 | 14 53 | 1 47 | 6 41 | 10 29 | 22 52 | 22 48 | 18 46 | | | n.a. |
| W21 | 23 41 | 22 17 | 4 16 | 21 51 | 1 27 | 17 19 | 0 15 | 15 24 | 0 56 | 1 55 | 1 23 | 14 6 | 2 0 | 1 1 | 0 41 | 14 53 | 1 47 | 6 41 | 10 28 | 22 52 | 22 48 | 18 44 | | | n.a. |
| T 22 | 23 42 | 19 12 | 4 48 | 21 34 | 1 46 | 16 58 | 0 8 | 15 9 | 0 56 | 1 57 | 1 23 | 14 6 | 2 0 | 1 1 | 0 41 | 14 53 | 1 47 | 6 41 | 10 28 | 22 52 | 22 47 | 18 42 | | | n.a. |
| F 23 | 23 42 | 15 21 | 5 9 | 21 19 | 2 4 | 16 36 | 0n 0 | 14 53 | 0 55 | 1 59 | 1 23 | 14 7 | 2 1 | 1 0 | 0 41 | 14 52 | 1 47 | 6 41 | 10 28 | 22 52 | 22 47 | 18 40 | | | n.a. |
| S 24 | 23 42 | 10 55 | 5 16 | 21 4 | 2 22 | 16 14 | 0 8 | 14 37 | 0 54 | 2 2 | 1 23 | 14 8 | 2 1 | 1 0 | 0 41 | 14 52 | 1 47 | 6 41 | 10 28 | 22 52 | 22 47 | 18 38 | | | n.a. |
| S 25 | 23 42 | 6 3 | 5 9 | 20 51 | 2 39 | 15 52 | 0 16 | 14 22 | 0 53 | 2 4 | 1 24 | 14 8 | 2 1 | 1 0 | 0 41 | 14 52 | 1 47 | 6 41 | 10 28 | 22 52 | 22 46 | 18 36 | | | n.a. |
| M26 | 23 41 | 0 53 | 4 49 | 20 40 | 2 54 | 15 30 | 0 25 | 14 6 | 0 52 | 2 6 | 1 24 | 14 9 | 2 1 | 1 0 | 0 41 | 14 52 | 1 47 | 6 41 | 10 27 | 22 52 | 22 46 | 18 34 | | | n.a. |
| T 27 | 23 40 | 4s26 | 4 15 | 20 30 | 3 7 | 15 8 | 0 33 | 13 50 | 0 51 | 2 8 | 1 24 | 14 10 | 2 2 | 0 59 | 0 41 | 14 51 | 1 47 | 6 41 | 10 27 | 22 52 | 22 46 | 18 32 | | | n.a. |
| W28 | 23 38 | 9 43 | 3 28 | 20 21 | 3 18 | 14 46 | 0 42 | 13 34 | 0 50 | 2 10 | 1 24 | 14 11 | 2 2 | 0 59 | 0 41 | 14 51 | 1 47 | 6 41 | 10 27 | 22 52 | 22 45 | 18 30 | | | n.a. |
| T 29 | 23 35 | 14 44 | 2 29 | 20 15 | 3 26 | 14 24 | 0 51 | 13 17 | 0 49 | 2 12 | 1 25 | 14 12 | 2 2 | 0 58 | 0 41 | 14 51 | 1 47 | 6 41 | 10 27 | 22 52 | 22 45 | 18 28 | | | n.a. |
| F 30 | 23 33 | 19 12 | 1 20 | 20 10 | 3 32 | 14 2 | 1 0 | 13 1 | 0 48 | 2 14 | 1 25 | 14 13 | 2 2 | 0 58 | 0 41 | 14 51 | 1 46 | 6 41 | 10 27 | 22 52 | 22 44 | 18 26 | | | n.a. |
| S 31 | 23s29 | 22s44 | 0n 4 | 20s 6 | 3n36 | 13s40 | 1n10 | 12s45 | 0s47 | 2s15 | 1n25 | 14n14 | 2n 3 | 0s57 | 0s41 | 14n50 | 1s46 | 6n41 | 10s26 | 22n52 | 22n44 | 18n24 | | | n.a. |

Julian Day Number = 1691076.5, Delta T = 03h10m27s
Ecliptic obliquity = 23°42'20, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°12'42, Lahiri = - 5°05'42 Julian Calendar 1 Dec. 84 BCE == Greg. Calendar 29 Nov. 084 BCE

The year -83 astronomical counting style corresponds to year 084 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 83 BCE
# geocentric

## JANUARY 83 BCE (-82) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 30 1 | 8♉31'55 | 28♐50 | 29°R 0 | 21♒19 | 29♒35 | 8♎57 | 27°R56 | 29♓10 | 15°R 3 | 15°R32 | 15°R10 | 13♊56 | 23♌31 | n.a. | S 1 |
| M 2 | 6 33 57 | 9°32'53 | 13♉29 | 28♐ 2 | 21°57 | 0♓19 | 9° 2 | 27♌54 | 29°12 | 15♉ 2 | 15♉31 | 15♊ 8 | 13°53 | 23°38 | n.a. | M 2 |
| T 3 | 6 37 54 | 10°33'50 | 28°21 | 27°12 | 22°34 | 1° 4 | 9° 7 | 27°52 | 29°13 | 15° 1 | 15°31 | 15° 5 | 13°50 | 23°45 | n.a. | T 3 |
| W 4 | 6 41 51 | 11°34'45 | 13♒18 | 26°31 | 23°10 | 1°48 | 9°11 | 27°49 | 29°14 | 15° 0 | 15°30 | 15° 1 | 13°47 | 23°51 | n.a. | W 4 |
| T 5 | 6 45 47 | 12°35'40 | 28°10 | 25°58 | 23°44 | 2°32 | 9°15 | 27°47 | 29°15 | 15° 0 | 15°29 | 14°57 | 13°44 | 23°58 | n.a. | T 5 |
| F 6 | 6 49 44 | 13°36'32 | 12♓50 | 25°33 | 24°17 | 3°16 | 9°19 | 27°44 | 29°17 | 14°59 | 15°29 | 14°54 | 13°40 | 24° 5 | n.a. | F 6 |
| S 7 | 6 53 40 | 14°37'23 | 27°13 | 25°17 | 24°48 | 4° 0 | 9°23 | 27°41 | 29°18 | 14°58 | 15°28 | 14°51 | 13°37 | 24°12 | n.a. | S 7 |
| S 8 | 6 57 37 | 15°38'12 | 11♈15 | 25° 9 | 25°17 | 4°44 | 9°27 | 27°38 | 29°19 | 14°57 | 15°28 | 14°D50 | 13°34 | 24°18 | n.a. | S 8 |
| M 9 | 7 1 33 | 16°38'59 | 24°57 | 25°D 9 | 25°45 | 5°28 | 9°30 | 27°35 | 29°21 | 14°57 | 15°27 | 14°50 | 13°31 | 24°25 | n.a. | M 9 |
| T 10 | 7 5 30 | 17°39'45 | 8♉19 | 25°15 | 26°12 | 6°12 | 9°34 | 27°32 | 29°22 | 14°56 | 15°27 | 14°52 | 13°28 | 24°32 | n.a. | T 10 |
| W11 | 7 9 26 | 18°40'29 | 21°22 | 25°29 | 26°36 | 6°56 | 9°37 | 27°29 | 29°24 | 14°56 | 15°26 | 14°53 | 13°25 | 24°38 | n.a. | W11 |
| T 12 | 7 13 23 | 19°41'11 | 4♊10 | 25°49 | 26°58 | 7°40 | 9°40 | 27°26 | 29°26 | 14°55 | 15°26 | 14°55 | 13°21 | 24°45 | n.a. | T 12 |
| F 13 | 7 17 20 | 20°41'52 | 16°45 | 26°14 | 27°19 | 8°24 | 9°42 | 27°23 | 29°27 | 14°55 | 15°26 | 14°R55 | 13°18 | 24°52 | n.a. | F 13 |
| S 14 | 7 21 16 | 21°42'31 | 29° 9 | 26°45 | 27°38 | 9° 8 | 9°45 | 27°20 | 29°29 | 14°54 | 15°25 | 14°54 | 13°15 | 24°59 | n.a. | S 14 |
| S 15 | 7 25 13 | 22°43'09 | 11♋24 | 27°21 | 27°54 | 9°51 | 9°47 | 27°16 | 29°31 | 14°54 | 15°25 | 14°51 | 13°12 | 25° 5 | n.a. | S 15 |
| M16 | 7 29 9 | 23°43'44 | 23°31 | 28° 1 | 28° 8 | 10°35 | 9°50 | 27°13 | 29°33 | 14°53 | 15°24 | 14°46 | 13° 9 | 25°12 | n.a. | M16 |
| T 17 | 7 33 6 | 24°44'18 | 5♌32 | 28°45 | 28°21 | 11°19 | 9°52 | 27° 9 | 29°34 | 14°53 | 15°24 | 14°39 | 13° 6 | 25°19 | n.a. | T 17 |
| W18 | 7 37 2 | 25°44'51 | 17°28 | 29°33 | 28°31 | 12° 2 | 9°54 | 27° 6 | 29°36 | 14°53 | 15°24 | 14°32 | 13° 2 | 25°25 | n.a. | W18 |
| T 19 | 7 40 59 | 26°45'22 | 29°21 | 0♉25 | 28°38 | 12°46 | 9°55 | 27° 2 | 29°38 | 14°52 | 15°24 | 14°23 | 12°59 | 25°32 | n.a. | T 19 |
| F 20 | 7 44 55 | 27°45'51 | 11♍12 | 1°20 | 28°44 | 13°30 | 9°57 | 26°58 | 29°40 | 14°52 | 15°23 | 14°15 | 12°56 | 25°39 | n.a. | F 20 |
| S 21 | 7 48 52 | 28°46'19 | 23° 5 | 2°17 | 28°47 | 14°13 | 9°58 | 26°54 | 29°42 | 14°52 | 15°23 | 14° 8 | 12°53 | 25°46 | n.a. | S 21 |
| S 22 | 7 52 49 | 29°46'45 | 5♎ 3 | 3°18 | 28°R47 | 14°57 | 9°59 | 26°51 | 29°44 | 14°52 | 15°23 | 14° 3 | 12°50 | 25°52 | n.a. | S 22 |
| M23 | 7 56 45 | 0♒47'10 | 17° 9 | 4°21 | 28°45 | 15°40 | 10° 0 | 26°47 | 29°46 | 14°51 | 15°23 | 14° 0 | 12°46 | 25°59 | n.a. | M23 |
| T 24 | 8 0 42 | 1°47'33 | 29°28 | 5°27 | 28°41 | 16°24 | 10° 1 | 26°43 | 29°48 | 14°51 | 15°22 | 13°D59 | 12°43 | 26° 6 | n.a. | T 24 |
| W25 | 8 4 38 | 2°47'55 | 12♏ 5 | 6°34 | 28°34 | 17° 7 | 10° 1 | 26°39 | 29°51 | 14°51 | 15°22 | 13°59 | 12°40 | 26°12 | n.a. | W25 |
| T 26 | 8 8 35 | 3°48'15 | 25° 3 | 7°44 | 28°24 | 17°50 | 10° 2 | 26°34 | 29°53 | 14°51 | 15°22 | 14° 0 | 12°37 | 26°19 | n.a. | T 26 |
| F 27 | 8 12 31 | 4°48'34 | 8♐28 | 8°56 | 28°12 | 18°34 | 10°R 2 | 26°30 | 29°55 | 14°D51 | 15°22 | 14°R 1 | 12°34 | 26°26 | n.a. | F 27 |
| S 28 | 8 16 28 | 5°48'51 | 22°21 | 10° 9 | 27°58 | 19°17 | 10° 2 | 26°26 | 29°57 | 14°51 | 15°22 | 14° 1 | 12°31 | 26°33 | n.a. | S 28 |
| S 29 | 8 20 24 | 6°49'06 | 6♑42 | 11°24 | 27°41 | 20° 0 | 10° 2 | 26°22 | 29°59 | 14°51 | 15°22 | 13°59 | 12°27 | 26°39 | n.a. | S 29 |
| M30 | 8 24 21 | 7°49'20 | 21°29 | 12°41 | 27°22 | 20°44 | 10° 1 | 26°17 | 0♈ 2 | 14°51 | 15°22 | 13°54 | 12°24 | 26°46 | n.a. | M30 |
| T 31 | 8 28 18 | 8♒49'32 | 6♒35 | 14♑ 0 | 27♒ 0 | 21♓27 | 10♎ 1 | 26♌13 | 0♈ 4 | 14♉51 | 15°D22 | 13♊48 | 12♊21 | 26♌53 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| S 1 | 23s26 | 24s56 | 1s14 | 20s 5 | 3n37 | 13s18 | 1n19 | 12s28 | 0s47 | 2s17 | 1n25 | 14n15 | 2n 3 | 0s57 | 0s40 | 14n50 | 1s46 | 6n41 | 10s26 | 22n52 | 22n44 | 18n22 | | | n.a. |
| M 2 | 23 21 | 25 29 | 2 29 | 20 5 | 3 36 | 12 56 | 1 29 | 12 12 | 0 46 | 2 19 | 1 26 | 14 16 | 2 3 | 0 56 | 0 40 | 14 50 | 1 46 | 6 41 | 10 26 | 22 52 | 22 43 | 18 20 | | | n.a. |
| T 3 | 23 17 | 24 14 | 3 35 | 20 7 | 3 34 | 12 35 | 1 39 | 11 55 | 0 45 | 2 20 | 1 26 | 14 17 | 2 3 | 0 56 | 0 40 | 14 50 | 1 46 | 6 41 | 10 26 | 22 52 | 22 43 | 18 18 | | | n.a. |
| W 4 | 23 12 | 21 16 | 4 27 | 20 11 | 3 29 | 12 13 | 1 50 | 11 38 | 0 44 | 2 22 | 1 26 | 14 18 | 2 4 | 0 55 | 0 40 | 14 50 | 1 46 | 6 41 | 10 25 | 22 51 | 22 42 | 18 16 | | | n.a. |
| T 5 | 23 6 | 16 55 | 5 0 | 20 16 | 3 23 | 11 52 | 2 0 | 11 21 | 0 43 | 2 23 | 1 26 | 14 19 | 2 4 | 0 55 | 0 40 | 14 49 | 1 46 | 6 41 | 10 25 | 22 51 | 22 42 | 18 14 | | | n.a. |
| F 6 | 23 0 | 11 37 | 5 13 | 20 22 | 3 16 | 11 31 | 2 11 | 11 4 | 0 42 | 2 25 | 1 27 | 14 20 | 2 4 | 0 54 | 0 40 | 14 49 | 1 46 | 6 41 | 10 25 | 22 50 | 22 42 | 18 12 | | | n.a. |
| S 7 | 22 54 | 5 47 | 5 6 | 20 30 | 3 7 | 11 10 | 2 22 | 10 47 | 0 41 | 2 26 | 1 27 | 14 21 | 2 4 | 0 54 | 0 40 | 14 49 | 1 46 | 6 41 | 10 25 | 22 50 | 22 41 | 18 10 | | | n.a. |
| S 8 | 22 47 | 0n12 | 4 41 | 20 39 | 2 58 | 10 50 | 2 34 | 10 30 | 0 40 | 2 27 | 1 27 | 14 22 | 2 5 | 0 53 | 0 40 | 14 49 | 1 46 | 6 41 | 10 24 | 22 50 | 22 41 | 18 8 | | | n.a. |
| M 9 | 22 39 | 6 3 | 4 0 | 20 49 | 2 48 | 10 29 | 2 45 | 10 13 | 0 40 | 2 28 | 1 27 | 14 24 | 2 5 | 0 53 | 0 40 | 14 49 | 1 46 | 6 41 | 10 24 | 22 50 | 22 41 | 18 6 | | | n.a. |
| T 10 | 22 32 | 11 29 | 3 7 | 20 59 | 2 38 | 10 10 | 2 57 | 9 56 | 0 39 | 2 29 | 1 28 | 14 25 | 2 5 | 0 52 | 0 40 | 14 49 | 1 46 | 6 41 | 10 24 | 22 50 | 22 40 | 18 4 | | | n.a. |
| W11 | 22 23 | 16 18 | 2 5 | 21 11 | 2 27 | 9 50 | 3 8 | 9 39 | 0 38 | 2 30 | 1 28 | 14 26 | 2 5 | 0 51 | 0 40 | 14 49 | 1 46 | 6 42 | 10 24 | 22 50 | 22 40 | 18 2 | | | n.a. |
| T 12 | 22 15 | 20 16 | 0 58 | 21 22 | 2 16 | 9 31 | 3 20 | 9 22 | 0 37 | 2 31 | 1 28 | 14 27 | 2 5 | 0 51 | 0 40 | 14 49 | 1 46 | 6 42 | 10 23 | 22 50 | 22 39 | 18 0 | | | n.a. |
| F 13 | 22 6 | 23 12 | 0n10 | 21 34 | 2 5 | 9 13 | 3 33 | 9 4 | 0 36 | 2 32 | 1 28 | 14 29 | 2 6 | 0 50 | 0 40 | 14 48 | 1 46 | 6 42 | 10 23 | 22 51 | 22 39 | 17 58 | | | n.a. |
| S 14 | 21 56 | 24 59 | 1 17 | 21 46 | 1 54 | 8 55 | 3 45 | 8 47 | 0 35 | 2 33 | 1 29 | 14 30 | 2 6 | 0 49 | 0 40 | 14 48 | 1 46 | 6 42 | 10 23 | 22 50 | 22 39 | 17 56 | | | n.a. |
| S 15 | 21 46 | 25 31 | 2 19 | 21 58 | 1 43 | 8 37 | 3 58 | 8 29 | 0 34 | 2 34 | 1 29 | 14 31 | 2 6 | 0 48 | 0 40 | 14 48 | 1 46 | 6 42 | 10 23 | 22 50 | 22 38 | 17 54 | | | n.a. |
| M16 | 21 36 | 24 49 | 3 14 | 22 10 | 1 32 | 8 20 | 4 10 | 8 12 | 0 34 | 2 34 | 1 29 | 14 33 | 2 6 | 0 48 | 0 40 | 14 48 | 1 45 | 6 42 | 10 22 | 22 49 | 22 38 | 17 52 | | | n.a. |
| T 17 | 21 25 | 22 58 | 4 0 | 22 21 | 1 21 | 8 4 | 4 23 | 7 54 | 0 33 | 2 35 | 1 29 | 14 34 | 2 6 | 0 47 | 0 40 | 14 48 | 1 45 | 6 42 | 10 22 | 22 49 | 22 37 | 17 50 | | | n.a. |
| W18 | 21 14 | 20 8 | 4 35 | 22 32 | 1 10 | 7 49 | 4 36 | 7 37 | 0 32 | 2 35 | 1 30 | 14 36 | 2 7 | 0 46 | 0 40 | 14 48 | 1 45 | 6 43 | 10 22 | 22 48 | 22 37 | 17 48 | | | n.a. |
| T 19 | 21 2 | 16 28 | 4 58 | 22 43 | 0 59 | 7 34 | 4 49 | 7 19 | 0 31 | 2 36 | 1 30 | 14 37 | 2 7 | 0 45 | 0 40 | 14 48 | 1 45 | 6 43 | 10 22 | 22 47 | 22 37 | 17 46 | | | n.a. |
| F 20 | 20 50 | 12 10 | 5 8 | 22 53 | 0 49 | 7 20 | 5 2 | 7 1 | 0 30 | 2 36 | 1 30 | 14 39 | 2 7 | 0 44 | 0 40 | 14 48 | 1 45 | 6 43 | 10 21 | 22 46 | 22 36 | 17 44 | | | n.a. |
| S 21 | 20 38 | 7 25 | 5 4 | 23 3 | 0 38 | 7 7 | 5 15 | 6 44 | 0 29 | 2 36 | 1 30 | 14 40 | 2 7 | 0 44 | 0 40 | 14 48 | 1 45 | 6 43 | 10 21 | 22 45 | 22 36 | 17 41 | | | n.a. |
| S 22 | 20 25 | 2 22 | 4 48 | 23 12 | 0 28 | 6 54 | 5 28 | 6 26 | 0 29 | 2 37 | 1 31 | 14 42 | 2 7 | 0 43 | 0 40 | 14 48 | 1 45 | 6 43 | 10 21 | 22 44 | 22 35 | 17 39 | | | n.a. |
| M23 | 20 12 | 2s50 | 4 18 | 23 20 | 0 18 | 6 43 | 5 41 | 6 8 | 0 28 | 2 37 | 1 31 | 14 43 | 2 8 | 0 42 | 0 40 | 14 48 | 1 45 | 6 43 | 10 21 | 22 44 | 22 35 | 17 37 | | | n.a. |
| T 24 | 19 59 | 8 2 | 3 37 | 23 27 | 0 8 | 6 32 | 5 54 | 5 50 | 0 27 | 2 37 | 1 31 | 14 45 | 2 8 | 0 41 | 0 40 | 14 48 | 1 45 | 6 44 | 10 20 | 22 44 | 22 35 | 17 35 | | | n.a. |
| W25 | 19 45 | 13 2 | 2 43 | 23 33 | 0s 1 | 6 23 | 6 6 | 5 33 | 0 26 | 2 37 | 1 31 | 14 46 | 2 8 | 0 40 | 0 40 | 14 48 | 1 45 | 6 44 | 10 20 | 22 44 | 22 34 | 17 33 | | | n.a. |
| T 26 | 19 31 | 17 37 | 1 40 | 23 39 | 0 10 | 6 14 | 6 19 | 5 15 | 0 25 | 2 37 | 1 32 | 14 48 | 2 8 | 0 39 | 0 40 | 14 48 | 1 45 | 6 44 | 10 20 | 22 44 | 22 34 | 17 31 | | | n.a. |
| F 27 | 19 16 | 21 28 | 0 30 | 23 43 | 0 19 | 6 7 | 6 31 | 4 57 | 0 24 | 2 37 | 1 32 | 14 50 | 2 8 | 0 38 | 0 40 | 14 48 | 1 45 | 6 44 | 10 20 | 22 44 | 22 33 | 17 29 | | | n.a. |
| S 28 | 19 2 | 24 13 | 0s45 | 23 46 | 0 28 | 6 0 | 6 43 | 4 39 | 0 24 | 2 36 | 1 32 | 14 51 | 2 8 | 0 37 | 0 40 | 14 48 | 1 45 | 6 44 | 10 19 | 22 44 | 22 33 | 17 27 | | | n.a. |
| S 29 | 18 46 | 25 31 | 1 59 | 23 48 | 0 36 | 5 55 | 6 55 | 4 21 | 0 23 | 2 36 | 1 32 | 14 53 | 2 9 | 0 36 | 0 40 | 14 48 | 1 45 | 6 45 | 10 19 | 22 44 | 22 32 | 17 25 | | | n.a. |
| M30 | 18 31 | 25 3 | 3 7 | 23 49 | 0 44 | 5 51 | 7 7 | 4 3 | 0 22 | 2 36 | 1 33 | 14 54 | 2 9 | 0 35 | 0 39 | 14 48 | 1 45 | 6 45 | 10 19 | 22 43 | 22 32 | 17 22 | | | n.a. |
| T 31 | 18s15 | 22s45 | 4s 3 | 23s49 | 0s51 | 5s48 | 7n18 | 3s45 | 0s21 | 2s35 | 1n33 | 14n56 | 2n 9 | 0s34 | 0s39 | 14n49 | 1s44 | 6n45 | 10s19 | 22n43 | 22n32 | 17n20 | | | n.a. |

Julian Day Number = 1691107.5, Delta T = 03h10m26s
Ecliptic obliquity = 23°42'20, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°12'38, Lahiri = - 5°05'38 Julian Calendar 1 Jan. 83 BCE == Greg. Calendar 30 Dec. 084 BCE

The year -82 astronomical counting style corresponds to year 083 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 83 BCE
# geocentric

## FEBRUARY 83 BCE (-82) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 8 32 14 | 9♒49'42 | 21♒51 | 15♉20 | 26°R36 | 22♓10 | 10°R 0 | 26°R 9 | 0♈ 7 | 14♉51 | 15♉22 | 13°R39 | 12♊18 | 27♌ 0 | n.a. | W 1 |
| T 2 | 8 36 11 | 10°49'50 | 7♓ 5 | 16°41 | 26♒10 | 22°53 | 9♎59 | 26♌ 4 | 0° 9 | 14°52 | 15°22 | 13♊30 | 12°15 | 27° 6 | n.a. | T 2 |
| F 3 | 8 40 7 | 11°49'56 | 22° 7 | 18° 4 | 25°42 | 23°36 | 9°58 | 26° 0 | 0°12 | 14°52 | 15°22 | 13°22 | 12°11 | 27°13 | n.a. | F 3 |
| S 4 | 8 44 4 | 12°49'59 | 6♈49 | 19°28 | 25°12 | 24°19 | 9°56 | 25°55 | 0°14 | 14°52 | 15°22 | 13°15 | 12° 8 | 27°20 | n.a. | S 4 |
| S 5 | 8 48 0 | 13°50'00 | 21° 4 | 20°54 | 24°40 | 25° 2 | 9°55 | 25°51 | 0°17 | 14°52 | 15°22 | 13°10 | 12° 5 | 27°26 | n.a. | S 5 |
| M 6 | 8 51 57 | 14°49'59 | 4♉53 | 22°21 | 24° 6 | 25°45 | 9°53 | 25°46 | 0°20 | 14°53 | 15°22 | 13° 8 | 12° 2 | 27°33 | n.a. | M 6 |
| T 7 | 8 55 53 | 15°49'56 | 18°14 | 23°49 | 23°32 | 26°28 | 9°51 | 25°42 | 0°22 | 14°53 | 15°22 | 13°D 8 | 11°59 | 27°40 | n.a. | T 7 |
| W 8 | 8 59 50 | 16°49'51 | 1♊12 | 25°18 | 22°56 | 27°11 | 9°49 | 25°37 | 0°25 | 14°53 | 15°22 | 13° 8 | 11°56 | 27°47 | n.a. | W 8 |
| T 9 | 9 3 47 | 17°49'43 | 13°51 | 26°49 | 22°19 | 27°54 | 9°47 | 25°32 | 0°28 | 14°54 | 15°23 | 13°R 9 | 11°52 | 27°53 | n.a. | T 9 |
| F 10 | 9 7 43 | 18°49'33 | 26°14 | 28°21 | 21°42 | 28°36 | 9°44 | 25°28 | 0°30 | 14°54 | 15°23 | 13° 8 | 11°49 | 28° 0 | n.a. | F 10 |
| S 11 | 9 11 40 | 19°49'20 | 8♋25 | 29°54 | 21° 4 | 29°19 | 9°42 | 25°23 | 0°33 | 14°55 | 15°23 | 13° 5 | 11°46 | 28° 7 | n.a. | S 11 |
| S 12 | 9 15 36 | 20°49'06 | 20°28 | 1♒28 | 20°26 | 0♈ 2 | 9°39 | 25°18 | 0°36 | 14°55 | 15°23 | 12°59 | 11°43 | 28°13 | n.a. | S 12 |
| M13 | 9 19 33 | 21°48'49 | 2♌26 | 3° 3 | 19°48 | 0°44 | 9°36 | 25°14 | 0°39 | 14°56 | 15°24 | 12°50 | 11°40 | 28°20 | n.a. | M13 |
| T 14 | 9 23 29 | 22°48'29 | 14°21 | 4°40 | 19°10 | 1°27 | 9°33 | 25° 9 | 0°42 | 14°56 | 15°24 | 12°39 | 11°37 | 28°27 | n.a. | T 14 |
| W15 | 9 27 26 | 23°48'08 | 26°13 | 6°18 | 18°33 | 2°10 | 9°29 | 25° 4 | 0°45 | 14°57 | 15°24 | 12°26 | 11°33 | 28°34 | n.a. | W15 |
| T 16 | 9 31 22 | 24°47'45 | 8♍ 6 | 7°57 | 17°57 | 2°52 | 9°26 | 25° 0 | 0°48 | 14°58 | 15°24 | 12°13 | 11°30 | 28°40 | n.a. | T 16 |
| F 17 | 9 35 19 | 25°47'19 | 20° 0 | 9°37 | 17°22 | 3°35 | 9°22 | 24°55 | 0°50 | 14°58 | 15°25 | 11°59 | 11°27 | 28°47 | n.a. | F 17 |
| S 18 | 9 39 16 | 26°46'52 | 1♎56 | 11°19 | 16°49 | 4°17 | 9°18 | 24°50 | 0°53 | 14°59 | 15°25 | 11°47 | 11°24 | 28°54 | n.a. | S 18 |
| S 19 | 9 43 12 | 27°46'22 | 13°57 | 13° 2 | 16°17 | 4°59 | 9°14 | 24°45 | 0°56 | 15° 0 | 15°26 | 11°38 | 11°21 | 29° 0 | n.a. | S 19 |
| M20 | 9 47 9 | 28°45'51 | 26° 6 | 14°46 | 15°46 | 5°42 | 9°10 | 24°41 | 0°59 | 15° 0 | 15°26 | 11°31 | 11°17 | 29° 7 | n.a. | M20 |
| T 21 | 9 51 5 | 29°45'17 | 8♏25 | 16°31 | 15°18 | 6°24 | 9° 6 | 24°36 | 1° 2 | 15° 1 | 15°26 | 11°27 | 11°14 | 29°14 | n.a. | T 21 |
| W22 | 9 55 2 | 0♓44'42 | 20°59 | 18°18 | 14°51 | 7° 6 | 9° 1 | 24°31 | 1° 5 | 15° 2 | 15°27 | 11°25 | 11°11 | 29°21 | n.a. | W22 |
| T 23 | 9 58 58 | 1°44'05 | 3♐52 | 20° 6 | 14°27 | 7°49 | 8°57 | 24°27 | 1° 9 | 15° 3 | 15°27 | 11°25 | 11° 8 | 29°27 | n.a. | T 23 |
| F 24 | 10 2 55 | 2°43'26 | 17° 9 | 21°55 | 14° 5 | 8°31 | 8°52 | 24°22 | 1°12 | 15° 4 | 15°28 | 11°25 | 11° 5 | 29°34 | n.a. | F 24 |
| S 25 | 10 6 51 | 3°42'46 | 0♑52 | 23°46 | 13°45 | 9°13 | 8°47 | 24°17 | 1°15 | 15° 5 | 15°28 | 11°24 | 11° 2 | 29°41 | n.a. | S 25 |
| S 26 | 10 10 48 | 4°42'03 | 15° 4 | 25°37 | 13°28 | 9°55 | 8°42 | 24°13 | 1°18 | 15° 6 | 15°29 | 11°21 | 10°58 | 29°48 | n.a. | S 26 |
| M27 | 10 14 44 | 5°41'19 | 29°43 | 27°31 | 13°13 | 10°37 | 8°37 | 24° 8 | 1°21 | 15° 7 | 15°30 | 11°15 | 10°55 | 29°54 | n.a. | M27 |
| T 28 | 10 18 41 | 6♓40'33 | 14♒44 | 29♒25 | 13♒ 0 | 11♈19 | 8♎31 | 24♌ 4 | 1♈24 | 15♉ 8 | 15♉30 | 11♊ 7 | 10♊52 | 0♍ 1 | n.a. | T 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 17s59 | 18s50 | 4s43 | 23s47 | 0s59 | 5s46 | 7n28 | 3s27 | 0s20 | 2s35 | 1n33 | 14n58 | 2n 9 | 0s33 | 0s39 | 14n49 | 1s44 | 6n45 | 10s18 | 22n42 | 22n31 | 17n18 | | n.a. |
| T 2 | 17 43 | 13 41 | 5 3 | 23 44 | 1 6 | 5 45 | 7 38 | 3 9 | 0 20 | 2 34 | 1 33 | 14 59 | 2 9 | 0 32 | 0 39 | 14 49 | 1 44 | 6 46 | 10 18 | 22 40 | 22 31 | 17 16 | | n.a. |
| F 3 | 17 26 | 7 46 | 5 1 | 23 40 | 1 13 | 5 45 | 7 48 | 2 51 | 0 19 | 2 33 | 1 34 | 15 1 | 2 9 | 0 31 | 0 39 | 14 49 | 1 44 | 6 46 | 10 18 | 22 39 | 22 30 | 17 14 | | n.a. |
| S 4 | 17 9 | 1 32 | 4 40 | 23 35 | 1 19 | 5 47 | 7 56 | 2 33 | 0 18 | 2 33 | 1 34 | 15 3 | 2 9 | 0 30 | 0 39 | 14 49 | 1 44 | 6 46 | 10 18 | 22 39 | 22 30 | 17 12 | | n.a. |
| S 5 | 16 52 | 4n36 | 4 1 | 23 28 | 1 25 | 5 50 | 8 4 | 2 16 | 0 17 | 2 32 | 1 34 | 15 4 | 2 10 | 0 29 | 0 39 | 14 49 | 1 44 | 6 47 | 10 17 | 22 38 | 22 30 | 17 10 | | n.a. |
| M 6 | 16 34 | 10 19 | 3 9 | 23 19 | 1 31 | 5 54 | 8 12 | 1 58 | 0 17 | 2 31 | 1 34 | 15 6 | 2 10 | 0 28 | 0 39 | 14 49 | 1 44 | 6 47 | 10 17 | 22 38 | 22 29 | 17 7 | | n.a. |
| T 7 | 16 16 | 15 23 | 2 9 | 23 9 | 1 36 | 5 59 | 8 18 | 1 40 | 0 16 | 2 30 | 1 34 | 15 8 | 2 10 | 0 27 | 0 39 | 14 50 | 1 44 | 6 47 | 10 17 | 22 38 | 22 29 | 17 5 | | n.a. |
| W 8 | 15 58 | 19 36 | 1 3 | 22 58 | 1 41 | 6 5 | 8 24 | 1 22 | 0 15 | 2 29 | 1 35 | 15 9 | 2 10 | 0 26 | 0 39 | 14 50 | 1 44 | 6 47 | 10 16 | 22 38 | 22 28 | 17 3 | | n.a. |
| T 9 | 15 40 | 22 47 | 0n 4 | 22 45 | 1 46 | 6 12 | 8 29 | 1 4 | 0 14 | 2 28 | 1 35 | 15 11 | 2 10 | 0 25 | 0 39 | 14 50 | 1 44 | 6 48 | 10 16 | 22 38 | 22 28 | 17 1 | | n.a. |
| F 10 | 15 21 | 24 48 | 1 9 | 22 31 | 1 50 | 6 21 | 8 32 | 0 46 | 0 13 | 2 27 | 1 35 | 15 13 | 2 10 | 0 24 | 0 39 | 14 50 | 1 44 | 6 48 | 10 16 | 22 38 | 22 27 | 16 59 | | n.a. |
| S 11 | 15 2 | 25 36 | 2 10 | 22 15 | 1 54 | 6 30 | 8 35 | 0 28 | 0 13 | 2 25 | 1 35 | 15 15 | 2 10 | 0 22 | 0 39 | 14 50 | 1 44 | 6 48 | 10 16 | 22 37 | 22 27 | 16 56 | | n.a. |
| S 12 | 14 43 | 25 10 | 3 5 | 21 57 | 1 57 | 6 40 | 8 37 | 0 10 | 0 12 | 2 24 | 1 36 | 15 16 | 2 10 | 0 21 | 0 39 | 14 50 | 1 44 | 6 49 | 10 15 | 22 37 | 22 27 | 16 54 | | n.a. |
| M13 | 14 24 | 23 34 | 3 50 | 21 38 | 2 0 | 6 51 | 8 38 | 0n 8 | 0 11 | 2 23 | 1 36 | 15 18 | 2 10 | 0 20 | 0 39 | 14 51 | 1 44 | 6 49 | 10 15 | 22 35 | 22 26 | 16 52 | | n.a. |
| T 14 | 14 4 | 20 56 | 4 25 | 21 18 | 2 3 | 7 2 | 8 38 | 0 25 | 0 10 | 2 21 | 1 36 | 15 20 | 2 10 | 0 19 | 0 39 | 14 51 | 1 44 | 6 49 | 10 15 | 22 34 | 22 26 | 16 50 | | n.a. |
| W15 | 13 44 | 17 26 | 4 49 | 20 55 | 2 5 | 7 14 | 8 37 | 0 43 | 0 10 | 2 20 | 1 36 | 15 21 | 2 11 | 0 18 | 0 39 | 14 51 | 1 43 | 6 50 | 10 15 | 22 32 | 22 25 | 16 48 | | n.a. |
| T 16 | 13 24 | 13 15 | 5 0 | 20 32 | 2 7 | 7 27 | 8 35 | 1 1 | 0 9 | 2 18 | 1 36 | 15 23 | 2 11 | 0 17 | 0 39 | 14 51 | 1 43 | 6 50 | 10 14 | 22 31 | 22 25 | 16 45 | | n.a. |
| F 17 | 13 4 | 8 33 | 4 58 | 20 6 | 2 8 | 7 40 | 8 32 | 1 19 | 0 8 | 2 16 | 1 37 | 15 25 | 2 11 | 0 15 | 0 39 | 14 52 | 1 43 | 6 50 | 10 14 | 22 29 | 22 24 | 16 43 | | n.a. |
| S 18 | 12 43 | 3 32 | 4 43 | 19 39 | 2 9 | 7 54 | 8 28 | 1 36 | 0 7 | 2 15 | 1 37 | 15 26 | 2 11 | 0 14 | 0 39 | 14 52 | 1 43 | 6 51 | 10 14 | 22 27 | 22 24 | 16 41 | | n.a. |
| S 19 | 12 23 | 1s39 | 4 15 | 19 10 | 2 10 | 8 7 | 8 23 | 1 54 | 0 7 | 2 13 | 1 37 | 15 28 | 2 11 | 0 13 | 0 39 | 14 52 | 1 43 | 6 51 | 10 14 | 22 26 | 22 23 | 16 39 | | n.a. |
| M20 | 12 2 | 6 51 | 3 35 | 18 39 | 2 10 | 8 21 | 8 18 | 2 12 | 0 6 | 2 11 | 1 37 | 15 30 | 2 11 | 0 12 | 0 39 | 14 53 | 1 43 | 6 51 | 10 13 | 22 25 | 22 23 | 16 37 | | n.a. |
| T 21 | 11 41 | 11 52 | 2 45 | 18 7 | 2 9 | 8 35 | 8 12 | 2 29 | 0 5 | 2 9 | 1 37 | 15 31 | 2 11 | 0 11 | 0 39 | 14 53 | 1 43 | 6 52 | 10 13 | 22 24 | 22 23 | 16 34 | | n.a. |
| W22 | 11 20 | 16 30 | 1 46 | 17 33 | 2 9 | 8 50 | 8 5 | 2 47 | 0 5 | 2 7 | 1 38 | 15 33 | 2 11 | 0 9 | 0 39 | 14 53 | 1 43 | 6 52 | 10 13 | 22 24 | 22 22 | 16 32 | | n.a. |
| T 23 | 10 59 | 20 31 | 0 40 | 16 57 | 2 7 | 9 4 | 7 57 | 3 4 | 0 4 | 2 5 | 1 38 | 15 35 | 2 11 | 0 8 | 0 39 | 14 53 | 1 43 | 6 53 | 10 13 | 22 24 | 22 22 | 16 30 | | n.a. |
| F 24 | 10 37 | 23 35 | 0s30 | 16 20 | 2 5 | 9 18 | 7 49 | 3 22 | 0 3 | 2 3 | 1 38 | 15 36 | 2 11 | 0 7 | 0 39 | 14 54 | 1 43 | 6 53 | 10 12 | 22 24 | 22 21 | 16 28 | | n.a. |
| S 25 | 10 15 | 25 23 | 1 41 | 15 41 | 2 3 | 9 32 | 7 41 | 3 39 | 0 2 | 2 1 | 1 38 | 15 38 | 2 11 | 0 5 | 0 39 | 14 54 | 1 43 | 6 53 | 10 12 | 22 24 | 22 21 | 16 25 | | n.a. |
| S 26 | 9 54 | 25 37 | 2 48 | 15 0 | 2 0 | 9 45 | 7 31 | 3 57 | 0 2 | 1 59 | 1 38 | 15 39 | 2 11 | 0 4 | 0 39 | 14 54 | 1 43 | 6 54 | 10 12 | 22 23 | 22 20 | 16 23 | | n.a. |
| M27 | 9 32 | 24 6 | 3 45 | 14 18 | 1 57 | 9 59 | 7 22 | 4 14 | 0 1 | 1 57 | 1 39 | 15 41 | 2 11 | 0 3 | 0 39 | 14 55 | 1 43 | 6 54 | 10 12 | 22 23 | 22 20 | 16 21 | | n.a. |
| T 28 | 9s10 | 20s53 | 4s29 | 13s33 | 1s53 | 10s12 | 7n12 | 4n31 | 0s 0 | 1s54 | 1n39 | 15n42 | 2n11 | 0s 2 | 0s39 | 14n55 | 1s43 | 6n54 | 10s11 | 22n21 | 22n19 | 16n18 | | n.a. |

Julian Day Number = 1691138.5, Delta T = 03h10m25s
Ecliptic obliquity = 23°42'21, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°12'34, Lahiri = - 5°05'33 Julian Calendar 1 Feb. 83 BCE == Greg. Calendar 30 Jan. 083 BCE

The year -82 astronomical counting style corresponds to year 083 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 83 BCE
# geocentric

## MARCH 83 BCE (-82) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 10 22 38 | 7♓39'44 | 0♓ 0 | 1♓21 | 12°R50 | 12♈ 1 | 8°R26 | 23°R59 | 1♈28 | 15♉ 9 | 15♉31 | 10°R56 | 10♊49 | 0♍ 8 | n.a. | W 1 |
| T 2 | 10 26 34 | 8°38'54 | 15°21 | 3°18 | 12♒42 | 12°43 | 8♎20 | 23♌55 | 1°31 | 15°10 | 15°31 | 10♊45 | 10°46 | 0°14 | n.a. | T 2 |
| F 3 | 10 30 31 | 9°38'01 | 0♈33 | 5°16 | 12°37 | 13°25 | 8°14 | 23°50 | 1°34 | 15°11 | 15°32 | 10°34 | 10°43 | 0°21 | n.a. | F 3 |
| S 4 | 10 34 27 | 10°37'06 | 15°27 | 7°16 | 12°34 | 14° 7 | 8° 8 | 23°46 | 1°37 | 15°12 | 15°33 | 10°25 | 10°39 | 0°28 | n.a. | S 4 |
| S 5 | 10 38 24 | 11°36'09 | 29°55 | 9°17 | 12°D34 | 14°49 | 8° 2 | 23°41 | 1°41 | 15°13 | 15°33 | 10°18 | 10°36 | 0°35 | n.a. | S 5 |
| M 6 | 10 42 20 | 12°35'09 | 13♉53 | 11°19 | 12°36 | 15°30 | 7°56 | 23°37 | 1°44 | 15°15 | 15°34 | 10°14 | 10°33 | 0°41 | n.a. | M 6 |
| T 7 | 10 46 17 | 13°34'07 | 27°22 | 13°21 | 12°40 | 16°12 | 7°50 | 23°33 | 1°47 | 15°16 | 15°35 | 10°12 | 10°30 | 0°48 | n.a. | T 7 |
| W 8 | 10 50 13 | 14°33'03 | 10♊24 | 15°25 | 12°47 | 16°54 | 7°43 | 23°29 | 1°50 | 15°17 | 15°35 | 10°12 | 10°27 | 0°55 | n.a. | W 8 |
| T 9 | 10 54 10 | 15°31'56 | 23° 3 | 17°29 | 12°56 | 17°36 | 7°37 | 23°24 | 1°54 | 15°18 | 15°36 | 10°12 | 10°23 | 1° 1 | n.a. | T 9 |
| F 10 | 10 58 7 | 16°30'47 | 5♋23 | 19°34 | 13° 7 | 18°17 | 7°30 | 23°20 | 1°57 | 15°20 | 15°37 | 10°11 | 10°20 | 1° 8 | n.a. | F 10 |
| S 11 | 11 2 3 | 17°29'36 | 17°31 | 21°39 | 13°20 | 18°59 | 7°23 | 23°16 | 2° 0 | 15°21 | 15°38 | 10° 8 | 10°17 | 1°15 | n.a. | S 11 |
| S 12 | 11 6 0 | 18°28'22 | 29°29 | 23°45 | 13°35 | 19°40 | 7°16 | 23°12 | 2° 4 | 15°23 | 15°39 | 10° 2 | 10°14 | 1°22 | n.a. | S 12 |
| M13 | 11 9 56 | 19°27'06 | 11♌22 | 25°50 | 13°52 | 20°22 | 7°10 | 23° 8 | 2° 7 | 15°24 | 15°39 | 9°54 | 10°11 | 1°28 | n.a. | M13 |
| T 14 | 11 13 53 | 20°25'47 | 23°13 | 27°55 | 14°11 | 21° 3 | 7° 3 | 23° 4 | 2°11 | 15°25 | 15°40 | 9°42 | 10° 8 | 1°35 | n.a. | T 14 |
| W15 | 11 17 49 | 21°24'27 | 5♍ 5 | 29°59 | 14°32 | 21°45 | 6°55 | 23° 0 | 2°14 | 15°27 | 15°41 | 9°29 | 10° 4 | 1°42 | n.a. | W15 |
| T 16 | 11 21 46 | 22°23'04 | 17° 0 | 2♈ 2 | 14°54 | 22°26 | 6°48 | 22°56 | 2°17 | 15°28 | 15°42 | 9°16 | 10° 1 | 1°49 | n.a. | T 16 |
| F 17 | 11 25 42 | 23°21'39 | 28°58 | 4° 4 | 15°19 | 23° 7 | 6°41 | 22°53 | 2°21 | 15°30 | 15°43 | 9° 2 | 9°58 | 1°55 | n.a. | F 17 |
| S 18 | 11 29 39 | 24°20'12 | 11♎ 1 | 6° 4 | 15°45 | 23°49 | 6°34 | 22°49 | 2°24 | 15°31 | 15°44 | 8°50 | 9°55 | 2° 2 | n.a. | S 18 |
| S 19 | 11 33 35 | 25°18'44 | 23°11 | 8° 2 | 16°12 | 24°30 | 6°27 | 22°45 | 2°28 | 15°33 | 15°45 | 8°40 | 9°52 | 2° 9 | n.a. | S 19 |
| M20 | 11 37 32 | 26°17'13 | 5♏28 | 9°58 | 16°42 | 25°11 | 6°19 | 22°42 | 2°31 | 15°34 | 15°46 | 8°33 | 9°48 | 2°15 | n.a. | M20 |
| T 21 | 11 41 29 | 27°15'41 | 17°56 | 11°51 | 17°12 | 25°52 | 6°12 | 22°38 | 2°34 | 15°36 | 15°47 | 8°29 | 9°45 | 2°22 | n.a. | T 21 |
| W22 | 11 45 25 | 28°14'07 | 0♐36 | 13°41 | 17°44 | 26°33 | 6° 4 | 22°35 | 2°38 | 15°38 | 15°48 | 8°27 | 9°42 | 2°29 | n.a. | W22 |
| T 23 | 11 49 22 | 29°12'31 | 13°32 | 15°27 | 18°18 | 27°15 | 5°57 | 22°32 | 2°41 | 15°39 | 15°49 | 8°D27 | 9°39 | 2°36 | n.a. | T 23 |
| F 24 | 11 53 18 | 0♈10'54 | 26°47 | 17°10 | 18°53 | 27°56 | 5°49 | 22°29 | 2°45 | 15°41 | 15°50 | 8°R28 | 9°36 | 2°42 | n.a. | F 24 |
| S 25 | 11 57 15 | 1° 9'15 | 10♑23 | 18°50 | 19°29 | 28°37 | 5°42 | 22°25 | 2°48 | 15°43 | 15°51 | 8°27 | 9°33 | 2°49 | n.a. | S 25 |
| S 26 | 12 1 11 | 2° 7'34 | 24°24 | 20°25 | 20° 6 | 29°18 | 5°34 | 22°22 | 2°52 | 15°44 | 15°52 | 8°25 | 9°29 | 2°56 | n.a. | S 26 |
| M27 | 12 5 8 | 3° 5'52 | 8♒49 | 21°57 | 20°45 | 29°59 | 5°26 | 22°19 | 2°55 | 15°46 | 15°53 | 8°21 | 9°26 | 3° 2 | n.a. | M27 |
| T 28 | 12 9 4 | 4° 4'08 | 23°34 | 23°24 | 21°24 | 0♉39 | 5°19 | 22°16 | 2°58 | 15°48 | 15°54 | 8°15 | 9°23 | 3° 9 | n.a. | T 28 |
| W29 | 12 13 1 | 5° 2'22 | 8♓35 | 24°47 | 22° 5 | 1°20 | 5°11 | 22°14 | 3° 2 | 15°50 | 15°55 | 8° 6 | 9°20 | 3°16 | n.a. | W29 |
| T 30 | 12 16 58 | 6° 0'35 | 23°43 | 26° 5 | 22°47 | 2° 1 | 5° 3 | 22°11 | 3° 5 | 15°51 | 15°56 | 7°57 | 9°17 | 3°23 | n.a. | T 30 |
| F 31 | 12 20 54 | 6♈58'46 | 8♈47 | 27♈19 | 23♒29 | 2♉42 | 4♎56 | 22♌ 8 | 3♈ 9 | 15♉53 | 15♉57 | 7♊48 | 9♊14 | 3♍29 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| W 1 | 8s47 | 16s11 | 4s55 | 12s48 | 1s48 | 10s24 | 7n 2 | 4n48 | 0n 0 | 1s52 | 1n39 | 15n44 | 2n11 | 0s 0 | 0s39 | 14n56 | 1s43 | 6n55 | 10s11 | 22n20 | 22n19 | 16n16 | | | n.a. |
| T 2 | 8 25 | 10 25 | 4 59 | 12 0 | 1 43 | 10 37 | 6 51 | 5 6 | 0 1 | 1 50 | 1 39 | 15 45 | 2 11 | 0n 1 | 0 39 | 14 56 | 1 43 | 6 55 | 10 11 | 22 18 | 22 19 | 16 14 | | | n.a. |
| F 3 | 8 3 | 4 5 | 4 42 | 11 11 | 1 37 | 10 48 | 6 40 | 5 23 | 0 2 | 1 47 | 1 39 | 15 47 | 2 11 | 0 2 | 0 39 | 14 56 | 1 43 | 6 56 | 10 11 | 22 17 | 22 18 | 16 12 | | | n.a. |
| S 4 | 7 40 | 2n22 | 4 6 | 10 21 | 1 31 | 11 0 | 6 29 | 5 40 | 0 2 | 1 45 | 1 39 | 15 48 | 2 11 | 0 4 | 0 39 | 14 57 | 1 42 | 6 56 | 10 10 | 22 15 | 22 18 | 16 9 | | | n.a. |
| S 5 | 7 17 | 8 31 | 3 15 | 9 29 | 1 24 | 11 10 | 6 18 | 5 57 | 0 3 | 1 42 | 1 39 | 15 50 | 2 11 | 0 5 | 0 39 | 14 57 | 1 42 | 6 57 | 10 10 | 22 15 | 22 17 | 16 7 | | | n.a. |
| M 6 | 6 55 | 14 3 | 2 14 | 8 35 | 1 17 | 11 21 | 6 7 | 6 14 | 0 4 | 1 40 | 1 40 | 15 51 | 2 11 | 0 6 | 0 39 | 14 58 | 1 42 | 6 57 | 10 10 | 22 14 | 22 17 | 16 5 | | | n.a. |
| T 7 | 6 32 | 18 42 | 1 7 | 7 41 | 1 9 | 11 30 | 5 56 | 6 31 | 0 4 | 1 37 | 1 40 | 15 53 | 2 11 | 0 8 | 0 39 | 14 58 | 1 42 | 6 57 | 10 10 | 22 14 | 22 16 | 16 2 | | | n.a. |
| W 8 | 6 9 | 22 16 | 0n 1 | 6 45 | 1 1 | 11 40 | 5 44 | 6 47 | 0 5 | 1 34 | 1 40 | 15 54 | 2 11 | 0 9 | 0 39 | 14 58 | 1 42 | 6 58 | 10 9 | 22 14 | 22 16 | 16 0 | | | n.a. |
| T 9 | 5 46 | 24 39 | 1 7 | 5 48 | 0 52 | 11 48 | 5 33 | 7 4 | 0 6 | 1 32 | 1 40 | 15 56 | 2 11 | 0 10 | 0 39 | 14 59 | 1 42 | 6 58 | 10 9 | 22 14 | 22 15 | 15 58 | | | n.a. |
| F 10 | 5 23 | 25 44 | 2 9 | 4 50 | 0 43 | 11 56 | 5 21 | 7 21 | 0 6 | 1 29 | 1 40 | 15 57 | 2 11 | 0 12 | 0 39 | 14 59 | 1 42 | 6 59 | 10 9 | 22 13 | 22 15 | 15 56 | | | n.a. |
| S 11 | 5 0 | 25 34 | 3 3 | 3 51 | 0 33 | 12 3 | 5 10 | 7 37 | 0 7 | 1 26 | 1 40 | 15 58 | 2 11 | 0 13 | 0 39 | 15 0 | 1 42 | 6 59 | 10 9 | 22 13 | 22 14 | 15 53 | | | n.a. |
| S 12 | 4 36 | 24 13 | 3 49 | 2 52 | 0 23 | 12 10 | 4 58 | 7 54 | 0 8 | 1 23 | 1 40 | 16 0 | 2 11 | 0 14 | 0 39 | 15 0 | 1 42 | 7 0 | 10 9 | 22 12 | 22 14 | 15 51 | | | n.a. |
| M13 | 4 13 | 21 47 | 4 24 | 1 52 | 0 13 | 12 16 | 4 47 | 8 10 | 0 8 | 1 20 | 1 40 | 16 1 | 2 11 | 0 16 | 0 39 | 15 1 | 1 42 | 7 0 | 10 8 | 22 11 | 22 13 | 15 49 | | | n.a. |
| T 14 | 3 50 | 18 27 | 4 48 | 0 52 | 0 2 | 12 21 | 4 36 | 8 27 | 0 9 | 1 18 | 1 40 | 16 2 | 2 11 | 0 17 | 0 39 | 15 1 | 1 42 | 7 0 | 10 8 | 22 9 | 22 13 | 15 46 | | | n.a. |
| W15 | 3 27 | 14 22 | 4 59 | 0n 8 | 0n 9 | 12 26 | 4 25 | 8 43 | 0 10 | 1 15 | 1 40 | 16 3 | 2 11 | 0 19 | 0 39 | 15 2 | 1 42 | 7 1 | 10 8 | 22 7 | 22 12 | 15 44 | | | n.a. |
| T 16 | 3 3 | 9 45 | 4 57 | 1 8 | 0 21 | 12 30 | 4 13 | 8 59 | 0 10 | 1 12 | 1 40 | 16 5 | 2 11 | 0 20 | 0 39 | 15 2 | 1 42 | 7 1 | 10 8 | 22 5 | 22 12 | 15 42 | | | n.a. |
| F 17 | 2 40 | 4 43 | 4 42 | 2 7 | 0 32 | 12 34 | 4 2 | 9 15 | 0 11 | 1 9 | 1 40 | 16 6 | 2 11 | 0 21 | 0 39 | 15 3 | 1 42 | 7 2 | 10 7 | 22 3 | 22 12 | 15 39 | | | n.a. |
| S 18 | 2 16 | 0s30 | 4 15 | 3 6 | 0 43 | 12 37 | 3 52 | 9 31 | 0 12 | 1 6 | 1 41 | 16 7 | 2 11 | 0 23 | 0 39 | 15 3 | 1 42 | 7 2 | 10 7 | 22 1 | 22 11 | 15 37 | | | n.a. |
| S 19 | 1 53 | 5 47 | 3 35 | 4 3 | 0 55 | 12 39 | 3 41 | 9 47 | 0 12 | 1 3 | 1 41 | 16 8 | 2 11 | 0 24 | 0 39 | 15 4 | 1 42 | 7 3 | 10 7 | 22 0 | 22 11 | 15 34 | | | n.a. |
| M20 | 1 30 | 10 54 | 2 45 | 5 0 | 1 6 | 12 40 | 3 30 | 10 3 | 0 13 | 1 0 | 1 41 | 16 9 | 2 11 | 0 25 | 0 38 | 15 4 | 1 42 | 7 3 | 10 7 | 21 59 | 22 10 | 15 32 | | | n.a. |
| T 21 | 1 6 | 15 40 | 1 47 | 5 54 | 1 17 | 12 41 | 3 20 | 10 19 | 0 13 | 0 57 | 1 41 | 16 10 | 2 10 | 0 27 | 0 38 | 15 5 | 1 42 | 7 4 | 10 7 | 21 58 | 22 10 | 15 30 | | | n.a. |
| W22 | 0 43 | 19 50 | 0 42 | 6 48 | 1 27 | 12 41 | 3 9 | 10 34 | 0 14 | 0 54 | 1 41 | 16 11 | 2 10 | 0 28 | 0 38 | 15 5 | 1 41 | 7 4 | 10 6 | 21 58 | 22 9 | 15 27 | | | n.a. |
| T 23 | 0 19 | 23 7 | 0s27 | 7 39 | 1 38 | 12 40 | 2 59 | 10 50 | 0 15 | 0 51 | 1 41 | 16 12 | 2 10 | 0 30 | 0 38 | 15 6 | 1 41 | 7 5 | 10 6 | 21 58 | 22 9 | 15 25 | | | n.a. |
| F 24 | 0n 4 | 25 16 | 1 36 | 8 28 | 1 48 | 12 39 | 2 49 | 11 5 | 0 15 | 0 48 | 1 41 | 16 13 | 2 10 | 0 31 | 0 38 | 15 6 | 1 41 | 7 5 | 10 6 | 21 58 | 22 8 | 15 23 | | | n.a. |
| S 25 | 0 28 | 25 58 | 2 41 | 9 15 | 1 57 | 12 37 | 2 39 | 11 21 | 0 16 | 0 45 | 1 41 | 16 14 | 2 10 | 0 32 | 0 38 | 15 7 | 1 41 | 7 6 | 10 6 | 21 58 | 22 8 | 15 20 | | | n.a. |
| S 26 | 0 51 | 25 4 | 3 39 | 10 0 | 2 6 | 12 35 | 2 30 | 11 36 | 0 16 | 0 42 | 1 41 | 16 15 | 2 10 | 0 34 | 0 38 | 15 7 | 1 41 | 7 6 | 10 6 | 21 57 | 22 7 | 15 18 | | | n.a. |
| M27 | 1 15 | 22 30 | 4 24 | 10 43 | 2 14 | 12 32 | 2 20 | 11 51 | 0 17 | 0 39 | 1 41 | 16 16 | 2 10 | 0 35 | 0 38 | 15 8 | 1 41 | 7 6 | 10 5 | 21 57 | 22 7 | 15 15 | | | n.a. |
| T 28 | 1 38 | 18 25 | 4 53 | 11 22 | 2 21 | 12 28 | 2 11 | 12 6 | 0 18 | 0 36 | 1 41 | 16 17 | 2 10 | 0 37 | 0 38 | 15 8 | 1 41 | 7 7 | 10 5 | 21 56 | 22 6 | 15 13 | | | n.a. |
| W29 | 2 1 | 13 7 | 5 3 | 12 0 | 2 28 | 12 23 | 2 1 | 12 21 | 0 18 | 0 33 | 1 41 | 16 18 | 2 10 | 0 38 | 0 38 | 15 9 | 1 41 | 7 7 | 10 5 | 21 54 | 22 6 | 15 11 | | | n.a. |
| T 30 | 2 25 | 6 59 | 4 52 | 12 34 | 2 34 | 12 18 | 1 52 | 12 36 | 0 19 | 0 30 | 1 41 | 16 19 | 2 10 | 0 39 | 0 38 | 15 9 | 1 41 | 7 8 | 10 5 | 21 53 | 22 5 | 15 8 | | | n.a. |
| F 31 | 2n48 | 0s28 | 4s21 | 13n 6 | 2n39 | 12s13 | 1n44 | 12n51 | 0n19 | 0s27 | 1n41 | 16n20 | 2n10 | 0n41 | 0s38 | 15n10 | 1s41 | 7n 8 | 10s 5 | 21n51 | 22n 5 | 15n 6 | | | n.a. |

Julian Day Number = 1691166.5, Delta T = 03h10m24s
Ecliptic obliquity = 23°42'22, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°12'30, Lahiri = - 5°05'29 Julian Calendar 1 March 83 BCE == Greg. Calendar 27 Feb. 083 BCE

The year -82 astronomical counting style corresponds to year 083 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 83 BCE
# geocentric

## APRIL 83 BCE (-82) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 24 51 | 7♈56'55 | 23♈37 | 28♈28 | 24♒13 | 3♉23 | 4°R48 | 22°R 6 | 3♈12 | 15♉55 | 15♉58 | 7°R40 | 9♊10 | 3♍36 | n.a. | S 1 |
| S 2 | 12 28 47 | 8°55'02 | 8♉ 7 | 29°33 | 24°58 | 4° 4 | 4♎40 | 22♌ 3 | 3°16 | 15°57 | 15°59 | 7♊34 | 9° 7 | 3°43 | n.a. | S 2 |
| M 3 | 12 32 44 | 9°53'07 | 22°10 | 0♉33 | 25°43 | 4°44 | 4°33 | 22° 1 | 3°19 | 15°59 | 16° 0 | 7°31 | 9° 4 | 3°50 | n.a. | M 3 |
| T 4 | 12 36 40 | 10°51'11 | 5♊45 | 1°27 | 26°29 | 5°25 | 4°25 | 21°58 | 3°22 | 16° 1 | 16° 2 | 7°D30 | 9° 1 | 3°56 | n.a. | T 4 |
| W 5 | 12 40 37 | 11°49'12 | 18°52 | 2°17 | 27°16 | 6° 5 | 4°18 | 21°56 | 3°26 | 16° 3 | 16° 3 | 7°31 | 8°58 | 4° 3 | n.a. | W 5 |
| T 6 | 12 44 33 | 12°47'12 | 1♋36 | 3° 2 | 28° 4 | 6°46 | 4°10 | 21°54 | 3°29 | 16° 5 | 16° 4 | 7°32 | 8°54 | 4°10 | n.a. | T 6 |
| F 7 | 12 48 30 | 13°45'09 | 14° 0 | 3°42 | 28°53 | 7°27 | 4° 3 | 21°52 | 3°33 | 16° 6 | 16° 5 | 7°R32 | 8°51 | 4°16 | n.a. | F 7 |
| S 8 | 12 52 27 | 14°43'05 | 26° 8 | 4°16 | 29°42 | 8° 7 | 3°55 | 21°50 | 3°36 | 16° 8 | 16° 6 | 7°31 | 8°48 | 4°23 | n.a. | S 8 |
| S 9 | 12 56 23 | 15°40'59 | 8♌ 7 | 4°46 | 0♓32 | 8°48 | 3°48 | 21°48 | 3°40 | 16°10 | 16° 8 | 7°29 | 8°45 | 4°30 | n.a. | S 9 |
| M10 | 13 0 20 | 16°38'50 | 20° 0 | 5°10 | 1°23 | 9°28 | 3°40 | 21°46 | 3°43 | 16°12 | 16° 9 | 7°24 | 8°42 | 4°37 | n.a. | M10 |
| T 11 | 13 4 16 | 17°36'40 | 1♍51 | 5°29 | 2°14 | 10° 8 | 3°33 | 21°45 | 3°46 | 16°14 | 16°10 | 7°17 | 8°39 | 4°43 | n.a. | T 11 |
| W12 | 13 8 13 | 18°34'28 | 13°45 | 5°43 | 3° 6 | 10°49 | 3°26 | 21°43 | 3°50 | 16°16 | 16°11 | 7° 9 | 8°35 | 4°50 | n.a. | W12 |
| T 13 | 13 12 9 | 19°32'15 | 25°43 | 5°52 | 3°59 | 11°29 | 3°19 | 21°42 | 3°53 | 16°18 | 16°12 | 7° 0 | 8°32 | 4°57 | n.a. | T 13 |
| F 14 | 13 16 6 | 20°30'00 | 7♎47 | 5°R55 | 4°52 | 12° 9 | 3°12 | 21°40 | 3°56 | 16°21 | 16°14 | 6°51 | 8°29 | 5° 3 | n.a. | F 14 |
| S 15 | 13 20 2 | 21°27'43 | 20° 0 | 5°54 | 5°46 | 12°50 | 3° 5 | 21°39 | 4° 0 | 16°23 | 16°15 | 6°44 | 8°26 | 5°10 | n.a. | S 15 |
| S 16 | 13 23 59 | 22°25'24 | 2♏23 | 5°48 | 6°40 | 13°30 | 2°58 | 21°38 | 4° 3 | 16°25 | 16°16 | 6°37 | 8°23 | 5°17 | n.a. | S 16 |
| M17 | 13 27 55 | 23°23'05 | 14°55 | 5°38 | 7°35 | 14°10 | 2°51 | 21°37 | 4° 6 | 16°27 | 16°18 | 6°33 | 8°20 | 5°24 | n.a. | M17 |
| T 18 | 13 31 52 | 24°20'44 | 27°38 | 5°23 | 8°30 | 14°50 | 2°44 | 21°36 | 4° 9 | 16°29 | 16°19 | 6°31 | 8°16 | 5°30 | n.a. | T 18 |
| W19 | 13 35 49 | 25°18'22 | 10♐33 | 5° 4 | 9°26 | 15°30 | 2°38 | 21°35 | 4°13 | 16°31 | 16°20 | 6°D31 | 8°13 | 5°37 | n.a. | W19 |
| T 20 | 13 39 45 | 26°15'58 | 23°42 | 4°42 | 10°22 | 16°10 | 2°31 | 21°34 | 4°16 | 16°33 | 16°21 | 6°32 | 8°10 | 5°44 | n.a. | T 20 |
| F 21 | 13 43 42 | 27°13'34 | 7♑ 6 | 4°16 | 11°19 | 16°50 | 2°25 | 21°34 | 4°19 | 16°35 | 16°23 | 6°33 | 8° 7 | 5°51 | n.a. | F 21 |
| S 22 | 13 47 38 | 28°11'09 | 20°46 | 3°48 | 12°16 | 17°31 | 2°18 | 21°33 | 4°22 | 16°37 | 16°24 | 6°34 | 8° 4 | 5°57 | n.a. | S 22 |
| S 23 | 13 51 35 | 29° 8'42 | 4♒42 | 3°17 | 13°14 | 18°11 | 2°12 | 21°33 | 4°26 | 16°39 | 16°25 | 6°R34 | 8° 0 | 6° 4 | n.a. | S 23 |
| M24 | 13 55 31 | 0♉ 6'15 | 18°56 | 2°45 | 14°12 | 18°50 | 2° 6 | 21°32 | 4°29 | 16°42 | 16°27 | 6°33 | 7°57 | 6°11 | n.a. | M24 |
| T 25 | 13 59 28 | 1° 3'46 | 3♓24 | 2°11 | 15°10 | 19°30 | 2° 0 | 21°32 | 4°32 | 16°44 | 16°28 | 6°30 | 7°54 | 6°17 | n.a. | T 25 |
| W26 | 14 3 25 | 2° 1'17 | 18° 3 | 1°37 | 16° 9 | 20°10 | 1°54 | 21°32 | 4°35 | 16°46 | 16°29 | 6°26 | 7°51 | 6°24 | n.a. | W26 |
| T 27 | 14 7 21 | 2°58'47 | 2♈47 | 1° 3 | 17° 8 | 20°50 | 1°49 | 21°D32 | 4°38 | 16°48 | 16°31 | 6°21 | 7°48 | 6°31 | n.a. | T 27 |
| F 28 | 14 11 18 | 3°56'15 | 17°28 | 0°29 | 18° 7 | 21°30 | 1°43 | 21°32 | 4°41 | 16°50 | 16°32 | 6°17 | 7°45 | 6°38 | n.a. | F 28 |
| S 29 | 14 15 14 | 4°53'43 | 2♉ 1 | 29♈57 | 19° 7 | 22°10 | 1°38 | 21°32 | 4°45 | 16°53 | 16°34 | 6°13 | 7°41 | 6°44 | n.a. | S 29 |
| S 30 | 14 19 11 | 5♉51'09 | 16♉17 | 29♈27 | 20♓ 7 | 22♉50 | 1♎32 | 21♌32 | 4♈48 | 16♉55 | 16♉35 | 6♊10 | 7♊38 | 6♍51 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 3n11 | 6n 0 | 3s32 | 13n36 | 2n44 | 12s 6 | 1n35 | 13n 6 | 0n20 | 0s24 | 1n41 | 16n20 | 2n 9 | 0n42 | 0s38 | 15n11 | 1s41 | 7n 9 | 10s 5 | 21n50 | 22n 4 | 15n 3 | | n.a. |
| S 2 | 3 34 | 12 0 | 2 30 | 14 2 | 2 47 | 12 0 | 1 26 | 13 20 | 0 21 | 0 21 | 1 40 | 16 21 | 2 9 | 0 43 | 0 38 | 15 11 | 1 41 | 7 9 | 10 4 | 21 49 | 22 4 | 15 1 | | n.a. |
| M 3 | 3 57 | 17 12 | 1 21 | 14 26 | 2 49 | 11 52 | 1 18 | 13 35 | 0 21 | 0 18 | 1 40 | 16 22 | 2 9 | 0 45 | 0 38 | 15 12 | 1 41 | 7 10 | 10 4 | 21 48 | 22 3 | 14 59 | | n.a. |
| T 4 | 4 20 | 21 21 | 0 9 | 14 46 | 2 51 | 11 44 | 1 10 | 13 49 | 0 22 | 0 15 | 1 40 | 16 22 | 2 9 | 0 46 | 0 38 | 15 12 | 1 41 | 7 10 | 10 4 | 21 48 | 22 3 | 14 56 | | n.a. |
| W 5 | 4 43 | 24 14 | 1n 1 | 15 4 | 2 51 | 11 35 | 1 2 | 14 3 | 0 22 | 0 12 | 1 40 | 16 23 | 2 9 | 0 48 | 0 38 | 15 13 | 1 41 | 7 11 | 10 4 | 21 48 | 22 2 | 14 54 | | n.a. |
| T 6 | 5 6 | 25 47 | 2 5 | 15 19 | 2 51 | 11 26 | 0 54 | 14 17 | 0 23 | 0 9 | 1 40 | 16 24 | 2 9 | 0 49 | 0 38 | 15 13 | 1 41 | 7 11 | 10 4 | 21 49 | 22 2 | 14 51 | | n.a. |
| F 7 | 5 29 | 25 59 | 3 3 | 15 32 | 2 49 | 11 16 | 0 46 | 14 31 | 0 23 | 0 6 | 1 40 | 16 24 | 2 9 | 0 50 | 0 38 | 15 14 | 1 41 | 7 12 | 10 4 | 21 49 | 22 1 | 14 49 | | n.a. |
| S 8 | 5 52 | 24 56 | 3 51 | 15 41 | 2 46 | 11 6 | 0 39 | 14 45 | 0 24 | 0 3 | 1 40 | 16 25 | 2 9 | 0 52 | 0 38 | 15 15 | 1 41 | 7 12 | 10 3 | 21 48 | 22 1 | 14 46 | | n.a. |
| S 9 | 6 14 | 22 44 | 4 27 | 15 48 | 2 42 | 10 55 | 0 31 | 14 59 | 0 25 | 0 0 | 1 40 | 16 25 | 2 8 | 0 53 | 0 38 | 15 15 | 1 41 | 7 13 | 10 3 | 21 48 | 22 0 | 14 44 | | n.a. |
| M10 | 6 37 | 19 36 | 4 53 | 15 51 | 2 37 | 10 43 | 0 24 | 15 12 | 0 25 | 0n 3 | 1 40 | 16 26 | 2 8 | 0 54 | 0 38 | 15 16 | 1 41 | 7 13 | 10 3 | 21 47 | 22 0 | 14 41 | | n.a. |
| T 11 | 6 59 | 15 40 | 5 5 | 15 52 | 2 31 | 10 31 | 0 17 | 15 26 | 0 26 | 0 6 | 1 40 | 16 26 | 2 8 | 0 56 | 0 38 | 15 16 | 1 41 | 7 14 | 10 3 | 21 46 | 21 59 | 14 39 | | n.a. |
| W12 | 7 21 | 11 8 | 5 4 | 15 50 | 2 24 | 10 19 | 0 10 | 15 39 | 0 26 | 0 8 | 1 40 | 16 26 | 2 8 | 0 57 | 0 38 | 15 17 | 1 41 | 7 14 | 10 3 | 21 45 | 21 59 | 14 37 | | n.a. |
| T 13 | 7 44 | 6 9 | 4 51 | 15 45 | 2 15 | 10 6 | 0 4 | 15 52 | 0 27 | 0 11 | 1 39 | 16 27 | 2 8 | 0 58 | 0 38 | 15 18 | 1 41 | 7 15 | 10 3 | 21 43 | 21 58 | 14 34 | | n.a. |
| F 14 | 8 6 | 0 54 | 4 24 | 15 37 | 2 6 | 9 52 | 0s 3 | 16 5 | 0 27 | 0 14 | 1 39 | 16 27 | 2 8 | 1 0 | 0 38 | 15 18 | 1 41 | 7 15 | 10 3 | 21 42 | 21 58 | 14 32 | | n.a. |
| S 15 | 8 28 | 4s27 | 3 44 | 15 27 | 1 55 | 9 38 | 0 9 | 16 18 | 0 28 | 0 17 | 1 39 | 16 27 | 2 8 | 1 1 | 0 38 | 15 19 | 1 41 | 7 16 | 10 2 | 21 40 | 21 57 | 14 29 | | n.a. |
| S 16 | 8 49 | 9 43 | 2 54 | 15 14 | 1 43 | 9 24 | 0 15 | 16 31 | 0 28 | 0 19 | 1 39 | 16 28 | 2 8 | 1 2 | 0 38 | 15 20 | 1 41 | 7 16 | 10 2 | 21 39 | 21 57 | 14 27 | | n.a. |
| M17 | 9 11 | 14 40 | 1 54 | 14 58 | 1 31 | 9 9 | 0 21 | 16 44 | 0 29 | 0 22 | 1 39 | 16 28 | 2 7 | 1 4 | 0 38 | 15 20 | 1 40 | 7 17 | 10 2 | 21 39 | 21 56 | 14 24 | | n.a. |
| T 18 | 9 32 | 19 4 | 0 48 | 14 40 | 1 17 | 8 53 | 0 27 | 16 56 | 0 29 | 0 24 | 1 39 | 16 28 | 2 7 | 1 5 | 0 38 | 15 21 | 1 40 | 7 17 | 10 2 | 21 38 | 21 56 | 14 22 | | n.a. |
| W19 | 9 54 | 22 38 | 0s22 | 14 20 | 1 2 | 8 38 | 0 33 | 17 8 | 0 30 | 0 27 | 1 38 | 16 28 | 2 7 | 1 6 | 0 38 | 15 21 | 1 40 | 7 17 | 10 2 | 21 38 | 21 55 | 14 19 | | n.a. |
| T 20 | 10 15 | 25 5 | 1 32 | 13 58 | 0 47 | 8 21 | 0 38 | 17 21 | 0 30 | 0 29 | 1 38 | 16 28 | 2 7 | 1 8 | 0 38 | 15 22 | 1 40 | 7 18 | 10 2 | 21 38 | 21 55 | 14 17 | | n.a. |
| F 21 | 10 36 | 26 9 | 2 38 | 13 34 | 0 31 | 8 4 | 0 44 | 17 33 | 0 31 | 0 32 | 1 38 | 16 28 | 2 7 | 1 9 | 0 38 | 15 23 | 1 40 | 7 18 | 10 2 | 21 39 | 21 54 | 14 14 | | n.a. |
| S 22 | 10 57 | 25 39 | 3 37 | 13 9 | 0 14 | 7 47 | 0 49 | 17 45 | 0 31 | 0 34 | 1 38 | 16 28 | 2 7 | 1 10 | 0 38 | 15 23 | 1 40 | 7 19 | 10 2 | 21 39 | 21 54 | 14 12 | | n.a. |
| S 23 | 11 17 | 23 34 | 4 24 | 12 43 | 0s 2 | 7 30 | 0 54 | 17 57 | 0 32 | 0 36 | 1 38 | 16 28 | 2 6 | 1 11 | 0 39 | 15 24 | 1 40 | 7 19 | 10 1 | 21 39 | 21 53 | 14 9 | | n.a. |
| M24 | 11 38 | 20 0 | 4 56 | 12 15 | 0 20 | 7 12 | 0 59 | 18 8 | 0 32 | 0 39 | 1 38 | 16 28 | 2 6 | 1 13 | 0 39 | 15 25 | 1 40 | 7 20 | 10 1 | 21 39 | 21 53 | 14 7 | | n.a. |
| T 25 | 11 58 | 15 11 | 5 10 | 11 47 | 0 37 | 6 53 | 1 4 | 18 20 | 0 33 | 0 41 | 1 37 | 16 28 | 2 6 | 1 14 | 0 39 | 15 25 | 1 40 | 7 20 | 10 1 | 21 38 | 21 52 | 14 4 | | n.a. |
| W26 | 12 19 | 9 26 | 5 5 | 11 19 | 0 54 | 6 34 | 1 8 | 18 31 | 0 33 | 0 43 | 1 37 | 16 28 | 2 6 | 1 15 | 0 39 | 15 26 | 1 40 | 7 21 | 10 1 | 21 37 | 21 52 | 14 2 | | n.a. |
| T 27 | 12 38 | 3 8 | 4 39 | 10 52 | 1 11 | 6 15 | 1 13 | 18 42 | 0 34 | 0 45 | 1 37 | 16 28 | 2 6 | 1 16 | 0 39 | 15 27 | 1 40 | 7 21 | 10 1 | 21 37 | 21 51 | 13 59 | | n.a. |
| F 28 | 12 58 | 3n20 | 3 55 | 10 24 | 1 28 | 5 56 | 1 17 | 18 53 | 0 34 | 0 47 | 1 37 | 16 28 | 2 6 | 1 18 | 0 39 | 15 27 | 1 40 | 7 22 | 10 1 | 21 36 | 21 51 | 13 57 | | n.a. |
| S 29 | 13 18 | 9 34 | 2 56 | 9 58 | 1 44 | 5 36 | 1 21 | 19 4 | 0 35 | 0 49 | 1 37 | 16 28 | 2 6 | 1 19 | 0 39 | 15 28 | 1 40 | 7 22 | 10 1 | 21 35 | 21 50 | 13 54 | | n.a. |
| S 30 | 13n37 | 15n12 | 1s46 | 9n33 | 1s59 | 5s16 | 1s25 | 19n15 | 0n35 | 0n51 | 1n36 | 16n27 | 2n 5 | 1n20 | 0s39 | 15n28 | 1s40 | 7n23 | 10s 1 | 21n35 | 21n50 | 13n52 | | n.a. |

Julian Day Number = 1691197.5, Delta T = 03h10m23s
Ecliptic obliquity = 23°42'22, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°12'26, Lahiri = - 5°05'25 Julian Calendar 1 Apr. 83 BCE == Greg. Calendar 30 March 083 BCE

The year -82 astronomical counting style corresponds to year 083 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 83 BCE
# geocentric

## MAY 83 BCE (-82) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 14 23 7 | 6♉48'35 | 0♊13 | 28°R58 | 21♓ 8 | 23♉29 | 1°R27 | 21♌33 | 4♈51 | 16♉57 | 16♉36 | 6°D 9 | 7♊35 | 6♍58 | n.a. | M 1 |
| T 2 | 14 27 4 | 7°45'59 | 13°45 | 28♈33 | 22° 8 | 24° 9 | 1♎22 | 21°33 | 4°54 | 16°59 | 16°38 | 6♊ 9 | 7°32 | 7° 5 | n.a. | T 2 |
| W 3 | 14 31 0 | 8°43'23 | 26°54 | 28°10 | 23° 9 | 24°49 | 1°17 | 21°34 | 4°57 | 17° 1 | 16°39 | 6°10 | 7°29 | 7°11 | n.a. | W 3 |
| T 4 | 14 34 57 | 9°40'45 | 9♋40 | 27°51 | 24°11 | 25°28 | 1°13 | 21°34 | 5° 0 | 17° 4 | 16°40 | 6°11 | 7°25 | 7°18 | n.a. | T 4 |
| F 5 | 14 38 54 | 10°38'05 | 22° 7 | 27°35 | 25°12 | 26° 8 | 1° 8 | 21°35 | 5° 3 | 17° 6 | 16°42 | 6°13 | 7°22 | 7°25 | n.a. | F 5 |
| S 6 | 14 42 50 | 11°35'25 | 4♌18 | 27°24 | 26°14 | 26°48 | 1° 4 | 21°36 | 5° 6 | 17° 8 | 16°43 | 6°14 | 7°19 | 7°31 | n.a. | S 6 |
| S 7 | 14 46 47 | 12°32'43 | 16°19 | 27°17 | 27°16 | 27°27 | 0°59 | 21°37 | 5° 8 | 17°10 | 16°45 | 6°R14 | 7°16 | 7°38 | n.a. | S 7 |
| M 8 | 14 50 43 | 13°30'01 | 28°13 | 27°D14 | 28°19 | 28° 7 | 0°55 | 21°38 | 5°11 | 17°13 | 16°46 | 6°13 | 7°13 | 7°45 | n.a. | M 8 |
| T 9 | 14 54 40 | 14°27'17 | 10♍ 6 | 27°15 | 29°21 | 28°46 | 0°51 | 21°39 | 5°14 | 17°15 | 16°47 | 6°11 | 7°10 | 7°52 | n.a. | T 9 |
| W10 | 14 58 36 | 15°24'32 | 22° 2 | 27°21 | 0♈24 | 29°26 | 0°48 | 21°41 | 5°17 | 17°17 | 16°49 | 6° 9 | 7° 6 | 7°58 | n.a. | W10 |
| T 11 | 15 2 33 | 16°21'46 | 4♎ 4 | 27°32 | 1°27 | 0♊ 5 | 0°44 | 21°42 | 5°20 | 17°19 | 16°50 | 6° 6 | 7° 3 | 8° 5 | n.a. | T 11 |
| F 12 | 15 6 29 | 17°18'59 | 16°15 | 27°47 | 2°30 | 0°45 | 0°41 | 21°43 | 5°23 | 17°22 | 16°51 | 6° 3 | 7° 0 | 8°12 | n.a. | F 12 |
| S 13 | 15 10 26 | 18°16'12 | 28°38 | 28° 6 | 3°34 | 1°24 | 0°37 | 21°45 | 5°25 | 17°24 | 16°53 | 6° 0 | 6°57 | 8°19 | n.a. | S 13 |
| S 14 | 15 14 23 | 19°13'24 | 11♏14 | 28°30 | 4°38 | 2° 4 | 0°34 | 21°47 | 5°28 | 17°26 | 16°54 | 5°58 | 6°54 | 8°25 | n.a. | S 14 |
| M15 | 15 18 19 | 20°10'35 | 24° 3 | 28°59 | 5°42 | 2°43 | 0°31 | 21°48 | 5°31 | 17°28 | 16°56 | 5°57 | 6°51 | 8°32 | n.a. | M15 |
| T 16 | 15 22 16 | 21° 7'45 | 7♐ 7 | 29°31 | 6°46 | 3°22 | 0°29 | 21°50 | 5°33 | 17°30 | 16°57 | 5°D57 | 6°47 | 8°39 | n.a. | T 16 |
| W17 | 15 26 12 | 22° 4'55 | 20°25 | 0♑ 8 | 7°50 | 4° 1 | 0°26 | 21°52 | 5°36 | 17°33 | 16°58 | 5°57 | 6°44 | 8°45 | n.a. | W17 |
| T 18 | 15 30 9 | 23° 2'05 | 3♑56 | 0°49 | 8°55 | 4°41 | 0°24 | 21°54 | 5°39 | 17°35 | 17° 0 | 5°58 | 6°41 | 8°52 | n.a. | T 18 |
| F 19 | 15 34 5 | 23°59'14 | 17°39 | 1°35 | 10° 0 | 5°20 | 0°22 | 21°56 | 5°41 | 17°37 | 17° 1 | 5°59 | 6°38 | 8°59 | n.a. | F 19 |
| S 20 | 15 38 2 | 24°56'24 | 1♒32 | 2°24 | 11° 5 | 5°59 | 0°19 | 21°59 | 5°44 | 17°39 | 17° 3 | 6° 0 | 6°35 | 9° 6 | n.a. | S 20 |
| S 21 | 15 41 58 | 25°53'33 | 15°36 | 3°17 | 12°10 | 6°38 | 0°18 | 22° 1 | 5°46 | 17°42 | 17° 4 | 6° 0 | 6°31 | 9°12 | n.a. | S 21 |
| M22 | 15 45 55 | 26°50'41 | 29°47 | 4°15 | 13°15 | 7°18 | 0°16 | 22° 3 | 5°49 | 17°44 | 17° 5 | 6°R 1 | 6°28 | 9°19 | n.a. | M22 |
| T 23 | 15 49 52 | 27°47'50 | 14♓ 4 | 5°16 | 14°21 | 7°57 | 0°14 | 22° 6 | 5°51 | 17°46 | 17° 7 | 6° 0 | 6°25 | 9°26 | n.a. | T 23 |
| W24 | 15 53 48 | 28°44'59 | 28°23 | 6°21 | 15°26 | 8°36 | 0°13 | 22° 9 | 5°53 | 17°48 | 17° 8 | 6° 0 | 6°22 | 9°32 | n.a. | W24 |
| T 25 | 15 57 45 | 29°42'07 | 12♈42 | 7°29 | 16°32 | 9°15 | 0°12 | 22°11 | 5°56 | 17°51 | 17° 9 | 5°59 | 6°19 | 9°39 | n.a. | T 25 |
| F 26 | 16 1 41 | 0♊39'16 | 26°56 | 8°41 | 17°38 | 9°54 | 0°11 | 22°14 | 5°58 | 17°53 | 17°11 | 5°58 | 6°16 | 9°46 | n.a. | F 26 |
| S 27 | 16 5 38 | 1°36'24 | 11♉ 2 | 9°57 | 18°44 | 10°33 | 0°10 | 22°17 | 6° 0 | 17°55 | 17°12 | 5°58 | 6°12 | 9°53 | n.a. | S 27 |
| S 28 | 16 9 34 | 2°33'33 | 24°55 | 11°16 | 19°51 | 11°12 | 0° 9 | 22°20 | 6° 3 | 17°57 | 17°13 | 5°58 | 6° 9 | 9°59 | n.a. | S 28 |
| M29 | 16 13 31 | 3°30'41 | 8♊33 | 12°39 | 20°57 | 11°51 | 0° 9 | 22°23 | 6° 5 | 17°59 | 17°15 | 5°D58 | 6° 6 | 10° 6 | n.a. | M29 |
| T 30 | 16 17 27 | 4°27'50 | 21°52 | 14° 6 | 22° 4 | 12°30 | 0° 9 | 22°26 | 6° 7 | 18° 1 | 17°16 | 5°58 | 6° 3 | 10°13 | n.a. | T 30 |
| W31 | 16 21 24 | 5♊24'58 | 4♋54 | 15♉36 | 23♈10 | 13♊ 9 | 0°D 9 | 22♌29 | 6♈ 9 | 18♉ 4 | 17♉17 | 5♊58 | 6♊ 0 | 10♍20 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | | ☊ | | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | | decl | | decl | | decl | lat |
| M 1 | 13n56 | 19n54 | 0s32 | 9n 9 | 2s14 | 4s55 | 1s29 | 19n26 | 0n36 | 0n53 | 1n36 | 16n27 | 2n 5 | 1n21 | 0s39 | 15n29 | 1s40 | 7n23 | 10s 1 | 21n34 | | 21n49 | | 13n49 | | | n.a. |
| T 2 | 14 15 | 23 24 | 0n42 | 8 47 | 2 27 | 4 34 | 1 33 | 19 36 | 0 36 | 0 55 | 1 36 | 16 27 | 2 5 | 1 23 | 0 39 | 15 30 | 1 40 | 7 23 | 10 1 | 21 34 | | 21 49 | | 13 46 | | | n.a. |
| W 3 | 14 34 | 25 31 | 1 51 | 8 27 | 2 40 | 4 13 | 1 36 | 19 47 | 0 37 | 0 56 | 1 36 | 16 27 | 2 5 | 1 24 | 0 39 | 15 30 | 1 40 | 7 24 | 10 1 | 21 35 | | 21 48 | | 13 44 | | | n.a. |
| T 4 | 14 52 | 26 14 | 2 53 | 8 9 | 2 52 | 3 52 | 1 40 | 19 57 | 0 37 | 0 58 | 1 35 | 16 26 | 2 5 | 1 25 | 0 39 | 15 31 | 1 40 | 7 24 | 10 0 | 21 35 | | 21 48 | | 13 41 | | | n.a. |
| F 5 | 15 11 | 25 35 | 3 46 | 7 54 | 3 3 | 3 30 | 1 43 | 20 7 | 0 38 | 1 0 | 1 35 | 16 26 | 2 5 | 1 26 | 0 39 | 15 32 | 1 40 | 7 25 | 10 0 | 21 35 | | 21 47 | | 13 39 | | | n.a. |
| S 6 | 15 29 | 23 43 | 4 27 | 7 41 | 3 12 | 3 8 | 1 46 | 20 17 | 0 38 | 1 1 | 1 35 | 16 25 | 2 4 | 1 27 | 0 39 | 15 32 | 1 40 | 7 25 | 10 0 | 21 35 | | 21 46 | | 13 36 | | | n.a. |
| S 7 | 15 46 | 20 49 | 4 55 | 7 30 | 3 21 | 2 46 | 1 49 | 20 26 | 0 39 | 1 3 | 1 35 | 16 25 | 2 4 | 1 28 | 0 39 | 15 33 | 1 40 | 7 26 | 10 0 | 21 35 | | 21 46 | | 13 34 | | | n.a. |
| M 8 | 16 4 | 17 4 | 5 11 | 7 22 | 3 28 | 2 23 | 1 52 | 20 36 | 0 39 | 1 4 | 1 34 | 16 24 | 2 4 | 1 30 | 0 39 | 15 34 | 1 40 | 7 26 | 10 0 | 21 35 | | 21 45 | | 13 31 | | | n.a. |
| T 9 | 16 21 | 12 41 | 5 13 | 7 17 | 3 34 | 2 1 | 1 55 | 20 45 | 0 39 | 1 5 | 1 34 | 16 24 | 2 4 | 1 31 | 0 39 | 15 34 | 1 40 | 7 27 | 10 0 | 21 35 | | 21 45 | | 13 28 | | | n.a. |
| W10 | 16 38 | 7 49 | 5 2 | 7 15 | 3 39 | 1 38 | 1 57 | 20 54 | 0 40 | 1 7 | 1 34 | 16 23 | 2 4 | 1 32 | 0 39 | 15 35 | 1 40 | 7 27 | 10 0 | 21 34 | | 21 44 | | 13 26 | | | n.a. |
| T 11 | 16 55 | 2 36 | 4 38 | 7 15 | 3 43 | 1 15 | 2 0 | 21 3 | 0 40 | 1 8 | 1 34 | 16 23 | 2 4 | 1 33 | 0 39 | 15 36 | 1 40 | 7 27 | 10 0 | 21 34 | | 21 44 | | 13 23 | | | n.a. |
| F 12 | 17 11 | 2s46 | 4 0 | 7 18 | 3 45 | 0 51 | 2 2 | 21 12 | 0 41 | 1 9 | 1 33 | 16 22 | 2 4 | 1 34 | 0 39 | 15 36 | 1 40 | 7 28 | 10 0 | 21 33 | | 21 43 | | 13 21 | | | n.a. |
| S 13 | 17 28 | 8 8 | 3 11 | 7 23 | 3 47 | 0 28 | 2 4 | 21 21 | 0 41 | 1 10 | 1 33 | 16 21 | 2 3 | 1 35 | 0 39 | 15 37 | 1 40 | 7 28 | 10 0 | 21 33 | | 21 43 | | 13 18 | | | n.a. |
| S 14 | 17 44 | 13 16 | 2 12 | 7 31 | 3 48 | 0 4 | 2 6 | 21 29 | 0 42 | 1 11 | 1 33 | 16 21 | 2 3 | 1 36 | 0 39 | 15 37 | 1 40 | 7 29 | 10 0 | 21 33 | | 21 42 | | 13 16 | | | n.a. |
| M15 | 17 59 | 17 57 | 1 5 | 7 42 | 3 47 | 0n20 | 2 8 | 21 37 | 0 42 | 1 12 | 1 33 | 16 20 | 2 3 | 1 37 | 0 39 | 15 38 | 1 40 | 7 29 | 10 0 | 21 32 | | 21 42 | | 13 13 | | | n.a. |
| T 16 | 18 14 | 21 51 | 0s 6 | 7 54 | 3 46 | 0 44 | 2 10 | 21 46 | 0 43 | 1 13 | 1 32 | 16 19 | 2 3 | 1 38 | 0 39 | 15 39 | 1 40 | 7 29 | 10 0 | 21 32 | | 21 41 | | 13 10 | | | n.a. |
| W17 | 18 29 | 24 40 | 1 19 | 8 9 | 3 44 | 1 8 | 2 12 | 21 53 | 0 43 | 1 14 | 1 32 | 16 18 | 2 3 | 1 39 | 0 39 | 15 39 | 1 40 | 7 30 | 10 0 | 21 32 | | 21 41 | | 13 8 | | | n.a. |
| T 18 | 18 44 | 26 7 | 2 29 | 8 27 | 3 41 | 1 32 | 2 13 | 22 1 | 0 43 | 1 14 | 1 32 | 16 18 | 2 3 | 1 40 | 0 39 | 15 40 | 1 40 | 7 30 | 10 0 | 21 33 | | 21 40 | | 13 5 | | | n.a. |
| F 19 | 18 59 | 26 0 | 3 31 | 8 46 | 3 37 | 1 57 | 2 15 | 22 9 | 0 44 | 1 15 | 1 31 | 16 17 | 2 2 | 1 41 | 0 39 | 15 41 | 1 40 | 7 31 | 10 0 | 21 33 | | 21 39 | | 13 3 | | | n.a. |
| S 20 | 19 13 | 24 17 | 4 21 | 9 8 | 3 32 | 2 21 | 2 16 | 22 16 | 0 44 | 1 16 | 1 31 | 16 16 | 2 2 | 1 42 | 0 39 | 15 41 | 1 40 | 7 31 | 10 0 | 21 33 | | 21 39 | | 13 0 | | | n.a. |
| S 21 | 19 27 | 21 3 | 4 57 | 9 31 | 3 26 | 2 46 | 2 17 | 22 24 | 0 45 | 1 16 | 1 31 | 16 15 | 2 2 | 1 43 | 0 39 | 15 42 | 1 40 | 7 31 | 10 0 | 21 33 | | 21 38 | | 12 57 | | | n.a. |
| M22 | 19 40 | 16 34 | 5 14 | 9 56 | 3 20 | 3 10 | 2 18 | 22 31 | 0 45 | 1 16 | 1 31 | 16 14 | 2 2 | 1 44 | 0 39 | 15 43 | 1 40 | 7 32 | 10 0 | 21 33 | | 21 38 | | 12 55 | | | n.a. |
| T 23 | 19 53 | 11 9 | 5 13 | 10 23 | 3 13 | 3 35 | 2 19 | 22 38 | 0 45 | 1 17 | 1 30 | 16 13 | 2 2 | 1 45 | 0 39 | 15 43 | 1 40 | 7 32 | 10 0 | 21 33 | | 21 37 | | 12 52 | | | n.a. |
| W24 | 20 6 | 5 7 | 4 53 | 10 52 | 3 6 | 4 0 | 2 20 | 22 44 | 0 46 | 1 17 | 1 30 | 16 12 | 2 2 | 1 46 | 0 39 | 15 44 | 1 40 | 7 32 | 10 0 | 21 33 | | 21 37 | | 12 49 | | | n.a. |
| T 25 | 20 19 | 1n11 | 4 14 | 11 22 | 2 58 | 4 25 | 2 20 | 22 51 | 0 46 | 1 17 | 1 30 | 16 11 | 2 1 | 1 47 | 0 39 | 15 44 | 1 40 | 7 33 | 10 0 | 21 33 | | 21 36 | | 12 47 | | | n.a. |
| F 26 | 20 31 | 7 24 | 3 20 | 11 53 | 2 49 | 4 50 | 2 21 | 22 57 | 0 47 | 1 17 | 1 29 | 16 10 | 2 1 | 1 48 | 0 39 | 15 45 | 1 40 | 7 33 | 10 0 | 21 33 | | 21 36 | | 12 44 | | | n.a. |
| S 27 | 20 43 | 13 11 | 2 14 | 12 26 | 2 40 | 5 15 | 2 21 | 23 3 | 0 47 | 1 17 | 1 29 | 16 9 | 2 1 | 1 49 | 0 39 | 15 46 | 1 40 | 7 34 | 10 0 | 21 33 | | 21 35 | | 12 42 | | | n.a. |
| S 28 | 20 54 | 18 14 | 1 1 | 13 0 | 2 30 | 5 40 | 2 22 | 23 9 | 0 47 | 1 17 | 1 29 | 16 8 | 2 1 | 1 50 | 0 39 | 15 46 | 1 40 | 7 34 | 10 0 | 21 32 | | 21 35 | | 12 39 | | | n.a. |
| M29 | 21 5 | 22 13 | 0n14 | 13 35 | 2 20 | 6 4 | 2 22 | 23 15 | 0 48 | 1 17 | 1 28 | 16 6 | 2 1 | 1 51 | 0 39 | 15 47 | 1 40 | 7 34 | 10 0 | 21 32 | | 21 34 | | 12 36 | | | n.a. |
| T 30 | 21 16 | 24 54 | 1 27 | 14 11 | 2 10 | 6 29 | 2 22 | 23 21 | 0 48 | 1 17 | 1 28 | 16 5 | 2 1 | 1 51 | 0 39 | 15 47 | 1 40 | 7 35 | 10 0 | 21 32 | | 21 33 | | 12 34 | | | n.a. |
| W31 | 21n27 | 26n10 | 2n34 | 14n48 | 1s59 | 6n54 | 2s22 | 23n26 | 0n49 | 1n17 | 1n28 | 16n 4 | 2n 1 | 1n52 | 0s39 | 15n48 | 1s40 | 7n35 | 10s 0 | 21n33 | | 21n33 | | 12n31 | | | n.a. |

Julian Day Number = 1691227.5, Delta T = 03h10m22s
Ecliptic obliquity = 23°42'22, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°12'22, Lahiri = - 5°05'21 Julian Calendar 1 May 83 BCE == Greg. Calendar 29 Apr. 083 BCE

The year -82 astronomical counting style corresponds to year 083 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 83 BCE
# geocentric

## JUNE 83 BCE (-82) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 25 21 | 6♊22'06 | 17♋36 | 17♉ 9 | 24♈17 | 13♊48 | 0♎ 9 | 22♌33 | 6♈11 | 18♉ 6 | 17♉19 | 5°R58 | 5♊57 | 10♍26 | n.a. | T 1 |
| F 2 | 16 29 17 | 7°19'14 | 0♌ 2 | 18°45 | 25°24 | 14°27 | 0° 9 | 22°36 | 6°13 | 18° 8 | 17°20 | 5♊58 | 5°53 | 10°33 | n.a. | F 2 |
| S 3 | 16 33 14 | 8°16'21 | 12°15 | 20°25 | 26°31 | 15° 6 | 0°10 | 22°40 | 6°15 | 18°10 | 17°21 | 5°58 | 5°50 | 10°40 | n.a. | S 3 |
| S 4 | 16 37 10 | 9°13'28 | 24°16 | 22° 8 | 27°39 | 15°45 | 0°10 | 22°43 | 6°17 | 18°12 | 17°23 | 5°57 | 5°47 | 10°46 | n.a. | S 4 |
| M 5 | 16 41 7 | 10°10'35 | 6♍12 | 23°54 | 28°46 | 16°24 | 0°11 | 22°47 | 6°19 | 18°14 | 17°24 | 5°D57 | 5°44 | 10°53 | n.a. | M 5 |
| T 6 | 16 45 3 | 11° 7'42 | 18° 5 | 25°43 | 29°53 | 17° 3 | 0°12 | 22°51 | 6°21 | 18°16 | 17°25 | 5°57 | 5°41 | 11° 0 | n.a. | T 6 |
| W 7 | 16 49 0 | 12° 4'49 | 0♎ 1 | 27°35 | 1♉ 1 | 17°42 | 0°13 | 22°55 | 6°23 | 18°19 | 17°27 | 5°57 | 5°37 | 11° 7 | n.a. | W 7 |
| T 8 | 16 52 57 | 13° 1'55 | 12° 5 | 29°30 | 2° 9 | 18°20 | 0°15 | 22°59 | 6°25 | 18°21 | 17°28 | 5°58 | 5°34 | 11°13 | n.a. | T 8 |
| F 9 | 16 56 53 | 13°59'02 | 24°19 | 1♊28 | 3°17 | 18°59 | 0°16 | 23° 3 | 6°26 | 18°23 | 17°29 | 5°59 | 5°31 | 11°20 | n.a. | F 9 |
| S 10 | 17 0 50 | 14°56'08 | 6♏49 | 3°27 | 4°25 | 19°38 | 0°18 | 23° 7 | 6°28 | 18°25 | 17°30 | 6° 0 | 5°28 | 11°27 | n.a. | S 10 |
| S 11 | 17 4 46 | 15°53'15 | 19°35 | 5°29 | 5°33 | 20°17 | 0°20 | 23°11 | 6°30 | 18°27 | 17°32 | 6° 0 | 5°25 | 11°34 | n.a. | S 11 |
| M12 | 17 8 43 | 16°50'22 | 2♐41 | 7°33 | 6°41 | 20°55 | 0°22 | 23°15 | 6°31 | 18°29 | 17°33 | 6°R 1 | 5°22 | 11°40 | n.a. | M12 |
| T 13 | 17 12 39 | 17°47'29 | 16° 5 | 9°38 | 7°49 | 21°34 | 0°24 | 23°19 | 6°33 | 18°31 | 17°34 | 6° 0 | 5°18 | 11°47 | n.a. | T 13 |
| W14 | 17 16 36 | 18°44'37 | 29°48 | 11°44 | 8°58 | 22°13 | 0°27 | 23°24 | 6°35 | 18°33 | 17°35 | 6° 0 | 5°15 | 11°54 | n.a. | W14 |
| T 15 | 17 20 32 | 19°41'45 | 13♑45 | 13°52 | 10° 6 | 22°52 | 0°29 | 23°28 | 6°36 | 18°35 | 17°37 | 5°58 | 5°12 | 12° 0 | n.a. | T 15 |
| F 16 | 17 24 29 | 20°38'54 | 27°55 | 16° 0 | 11°15 | 23°30 | 0°32 | 23°33 | 6°38 | 18°37 | 17°38 | 5°57 | 5° 9 | 12° 7 | n.a. | F 16 |
| S 17 | 17 28 26 | 21°36'03 | 12♒12 | 18° 8 | 12°23 | 24° 9 | 0°35 | 23°37 | 6°39 | 18°39 | 17°39 | 5°55 | 5° 6 | 12°14 | n.a. | S 17 |
| S 18 | 17 32 22 | 22°33'13 | 26°32 | 20°17 | 13°32 | 24°47 | 0°38 | 23°42 | 6°40 | 18°41 | 17°40 | 5°53 | 5° 3 | 12°21 | n.a. | S 18 |
| M19 | 17 36 19 | 23°30'24 | 10♓52 | 22°25 | 14°41 | 25°26 | 0°41 | 23°47 | 6°42 | 18°43 | 17°41 | 5°52 | 4°59 | 12°27 | n.a. | M19 |
| T 20 | 17 40 15 | 24°27'35 | 25° 7 | 24°33 | 15°50 | 26° 5 | 0°45 | 23°52 | 6°43 | 18°44 | 17°42 | 5°D52 | 4°56 | 12°34 | n.a. | T 20 |
| W21 | 17 44 12 | 25°24'48 | 9♈16 | 26°40 | 17° 0 | 26°43 | 0°48 | 23°57 | 6°44 | 18°46 | 17°44 | 5°52 | 4°53 | 12°41 | n.a. | W21 |
| T 22 | 17 48 8 | 26°22'01 | 23°16 | 28°47 | 18° 9 | 27°22 | 0°52 | 24° 2 | 6°45 | 18°48 | 17°45 | 5°53 | 4°50 | 12°47 | n.a. | T 22 |
| F 23 | 17 52 5 | 27°19'15 | 7♉ 6 | 0♋52 | 19°18 | 28° 0 | 0°56 | 24° 7 | 6°47 | 18°50 | 17°46 | 5°55 | 4°47 | 12°54 | n.a. | F 23 |
| S 24 | 17 56 1 | 28°16'31 | 20°45 | 2°56 | 20°28 | 28°39 | 1° 0 | 24°12 | 6°48 | 18°52 | 17°47 | 5°56 | 4°43 | 13° 1 | n.a. | S 24 |
| S 25 | 17 59 58 | 29°13'47 | 4♊12 | 4°59 | 21°37 | 29°17 | 1° 4 | 24°17 | 6°49 | 18°54 | 17°48 | 5°R56 | 4°40 | 13° 8 | n.a. | S 25 |
| M26 | 18 3 55 | 0♋11'04 | 17°26 | 7° 1 | 22°47 | 29°56 | 1° 9 | 24°22 | 6°50 | 18°56 | 17°49 | 5°56 | 4°37 | 13°14 | n.a. | M26 |
| T 27 | 18 7 51 | 1° 8'23 | 0♋27 | 9° 1 | 23°56 | 0♋35 | 1°13 | 24°28 | 6°51 | 18°57 | 17°50 | 5°54 | 4°34 | 13°21 | n.a. | T 27 |
| W28 | 18 11 48 | 2° 5'41 | 13°14 | 11° 0 | 25° 6 | 1°13 | 1°18 | 24°33 | 6°52 | 18°59 | 17°51 | 5°51 | 4°31 | 13°28 | n.a. | W28 |
| T 29 | 18 15 44 | 3° 3'01 | 25°47 | 12°57 | 26°16 | 1°52 | 1°23 | 24°38 | 6°52 | 19° 1 | 17°52 | 5°47 | 4°28 | 13°35 | n.a. | T 29 |
| F 30 | 18 19 41 | 4♋ 0'22 | 8♌ 7 | 14♋52 | 27♉26 | 2♋30 | 1♎28 | 24♌44 | 6♈53 | 19♉ 3 | 17♉53 | 5♊43 | 4♊24 | 13♍41 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21n37 | 26n 1 | 3n31 | 15n25 | 1s47 | 7n19 | 2s22 | 23n31 | 0n49 | 1n17 | 1n28 | 16n 3 | 2n 0 | 1n53 | 0s39 | 15n49 | 1s40 | 7n35 | 10s 0 | 21n33 | 21n32 | 12n28 | | n.a. |
| F 2 | 21 46 | 24 33 | 4 17 | 16 3 | 1 36 | 7 44 | 2 22 | 23 36 | 0 49 | 1 16 | 1 27 | 16 2 | 2 0 | 1 54 | 0 39 | 15 49 | 1 40 | 7 36 | 10 0 | 21 32 | 21 32 | 12 26 | | n.a. |
| S 3 | 21 56 | 21 57 | 4 50 | 16 42 | 1 24 | 8 9 | 2 22 | 23 41 | 0 50 | 1 16 | 1 27 | 16 0 | 2 0 | 1 55 | 0 39 | 15 50 | 1 40 | 7 36 | 10 0 | 21 32 | 21 31 | 12 23 | | n.a. |
| S 4 | 22 5 | 18 26 | 5 10 | 17 20 | 1 12 | 8 33 | 2 21 | 23 46 | 0 50 | 1 15 | 1 27 | 15 59 | 2 0 | 1 55 | 0 39 | 15 50 | 1 40 | 7 36 | 10 0 | 21 32 | 21 31 | 12 20 | | n.a. |
| M 5 | 22 13 | 14 14 | 5 17 | 17 59 | 1 1 | 8 58 | 2 21 | 23 50 | 0 50 | 1 15 | 1 26 | 15 58 | 2 0 | 1 56 | 0 39 | 15 51 | 1 40 | 7 37 | 10 0 | 21 32 | 21 30 | 12 18 | | n.a. |
| T 6 | 22 22 | 9 30 | 5 10 | 18 37 | 0 49 | 9 22 | 2 20 | 23 55 | 0 51 | 1 14 | 1 26 | 15 56 | 2 0 | 1 57 | 0 39 | 15 51 | 1 40 | 7 37 | 10 0 | 21 32 | 21 29 | 12 15 | | n.a. |
| W 7 | 22 29 | 4 24 | 4 49 | 19 15 | 0 37 | 9 47 | 2 20 | 23 59 | 0 51 | 1 13 | 1 26 | 15 55 | 2 0 | 1 58 | 0 39 | 15 52 | 1 40 | 7 37 | 10 0 | 21 32 | 21 29 | 12 12 | | n.a. |
| T 8 | 22 37 | 0s54 | 4 16 | 19 52 | 0 25 | 10 11 | 2 19 | 24 3 | 0 52 | 1 12 | 1 26 | 15 53 | 1 59 | 1 58 | 0 39 | 15 53 | 1 40 | 7 37 | 10 0 | 21 33 | 21 28 | 12 10 | | n.a. |
| F 9 | 22 44 | 6 16 | 3 31 | 20 28 | 0 13 | 10 35 | 2 18 | 24 6 | 0 52 | 1 11 | 1 25 | 15 52 | 1 59 | 1 59 | 0 39 | 15 53 | 1 40 | 7 38 | 10 0 | 21 33 | 21 28 | 12 7 | | n.a. |
| S 10 | 22 51 | 11 30 | 2 35 | 21 3 | 0 1 | 10 59 | 2 17 | 24 10 | 0 52 | 1 11 | 1 25 | 15 50 | 1 59 | 2 0 | 0 39 | 15 54 | 1 40 | 7 38 | 10 0 | 21 33 | 21 27 | 12 4 | | n.a. |
| S 11 | 22 57 | 16 23 | 1 30 | 21 37 | 0n10 | 11 23 | 2 16 | 24 13 | 0 53 | 1 9 | 1 25 | 15 49 | 1 59 | 2 0 | 0 39 | 15 54 | 1 40 | 7 38 | 10 0 | 21 33 | 21 27 | 12 1 | | n.a. |
| M12 | 23 3 | 20 38 | 0 18 | 22 9 | 0 21 | 11 47 | 2 15 | 24 16 | 0 53 | 1 8 | 1 24 | 15 47 | 1 59 | 2 1 | 0 39 | 15 55 | 1 40 | 7 39 | 10 0 | 21 33 | 21 26 | 11 59 | | n.a. |
| T 13 | 23 8 | 23 53 | 0s55 | 22 39 | 0 31 | 12 10 | 2 14 | 24 19 | 0 53 | 1 7 | 1 24 | 15 46 | 1 59 | 2 2 | 0 39 | 15 55 | 1 40 | 7 39 | 10 1 | 21 33 | 21 25 | 11 56 | | n.a. |
| W14 | 23 13 | 25 50 | 2 8 | 23 7 | 0 41 | 12 33 | 2 12 | 24 22 | 0 54 | 1 6 | 1 24 | 15 44 | 1 59 | 2 2 | 0 39 | 15 56 | 1 40 | 7 39 | 10 1 | 21 33 | 21 25 | 11 53 | | n.a. |
| T 15 | 23 18 | 26 12 | 3 14 | 23 33 | 0 50 | 12 56 | 2 11 | 24 25 | 0 54 | 1 5 | 1 23 | 15 43 | 1 59 | 2 3 | 0 40 | 15 56 | 1 40 | 7 39 | 10 1 | 21 33 | 21 24 | 11 51 | | n.a. |
| F 16 | 23 22 | 24 52 | 4 9 | 23 56 | 0 59 | 13 19 | 2 9 | 24 27 | 0 54 | 1 3 | 1 23 | 15 41 | 1 58 | 2 3 | 0 40 | 15 57 | 1 40 | 7 40 | 10 1 | 21 32 | 21 24 | 11 48 | | n.a. |
| S 17 | 23 26 | 21 56 | 4 49 | 24 17 | 1 7 | 13 42 | 2 8 | 24 29 | 0 55 | 1 2 | 1 23 | 15 39 | 1 58 | 2 4 | 0 40 | 15 57 | 1 40 | 7 40 | 10 1 | 21 32 | 21 23 | 11 45 | | n.a. |
| S 18 | 23 30 | 17 40 | 5 11 | 24 35 | 1 15 | 14 4 | 2 6 | 24 31 | 0 55 | 1 0 | 1 23 | 15 38 | 1 58 | 2 4 | 0 40 | 15 58 | 1 40 | 7 40 | 10 1 | 21 32 | 21 23 | 11 42 | | n.a. |
| M19 | 23 33 | 12 24 | 5 14 | 24 51 | 1 22 | 14 26 | 2 5 | 24 33 | 0 55 | 0 59 | 1 22 | 15 36 | 1 58 | 2 5 | 0 40 | 15 58 | 1 40 | 7 40 | 10 1 | 21 31 | 21 22 | 11 40 | | n.a. |
| T 20 | 23 35 | 6 30 | 4 58 | 25 3 | 1 28 | 14 48 | 2 3 | 24 35 | 0 56 | 0 57 | 1 22 | 15 34 | 1 58 | 2 5 | 0 40 | 15 59 | 1 40 | 7 41 | 10 1 | 21 31 | 21 21 | 11 37 | | n.a. |
| W21 | 23 38 | 0 19 | 4 23 | 25 13 | 1 33 | 15 10 | 2 1 | 24 36 | 0 56 | 0 55 | 1 22 | 15 32 | 1 58 | 2 6 | 0 40 | 15 59 | 1 40 | 7 41 | 10 1 | 21 32 | 21 21 | 11 34 | | n.a. |
| T 22 | 23 39 | 5n50 | 3 34 | 25 20 | 1 38 | 15 31 | 1 59 | 24 37 | 0 56 | 0 54 | 1 21 | 15 31 | 1 58 | 2 6 | 0 40 | 16 0 | 1 41 | 7 41 | 10 1 | 21 32 | 21 20 | 11 32 | | n.a. |
| F 23 | 23 41 | 11 38 | 2 32 | 25 24 | 1 41 | 15 52 | 1 57 | 24 38 | 0 57 | 0 52 | 1 21 | 15 29 | 1 58 | 2 7 | 0 40 | 16 0 | 1 41 | 7 41 | 10 1 | 21 32 | 21 20 | 11 29 | | n.a. |
| S 24 | 23 42 | 16 49 | 1 23 | 25 25 | 1 45 | 16 13 | 1 55 | 24 39 | 0 57 | 0 50 | 1 21 | 15 27 | 1 58 | 2 7 | 0 40 | 16 1 | 1 41 | 7 41 | 10 1 | 21 32 | 21 19 | 11 26 | | n.a. |
| S 25 | 23 42 | 21 4 | 0 10 | 25 24 | 1 47 | 16 33 | 1 53 | 24 40 | 0 57 | 0 48 | 1 21 | 15 25 | 1 57 | 2 8 | 0 40 | 16 1 | 1 41 | 7 42 | 10 2 | 21 32 | 21 19 | 11 23 | | n.a. |
| M26 | 23 42 | 24 9 | 1n 3 | 25 20 | 1 49 | 16 53 | 1 51 | 24 40 | 0 58 | 0 46 | 1 20 | 15 23 | 1 57 | 2 8 | 0 40 | 16 2 | 1 41 | 7 42 | 10 2 | 21 32 | 21 18 | 11 21 | | n.a. |
| T 27 | 23 42 | 25 53 | 2 10 | 25 13 | 1 50 | 17 13 | 1 49 | 24 40 | 0 58 | 0 44 | 1 20 | 15 21 | 1 57 | 2 8 | 0 40 | 16 2 | 1 41 | 7 42 | 10 2 | 21 32 | 21 17 | 11 18 | | n.a. |
| W28 | 23 41 | 26 12 | 3 10 | 25 5 | 1 50 | 17 32 | 1 47 | 24 40 | 0 58 | 0 42 | 1 20 | 15 19 | 1 57 | 2 9 | 0 40 | 16 3 | 1 41 | 7 42 | 10 2 | 21 31 | 21 17 | 11 15 | | n.a. |
| T 29 | 23 40 | 25 9 | 4 0 | 24 54 | 1 50 | 17 51 | 1 44 | 24 40 | 0 59 | 0 39 | 1 19 | 15 17 | 1 57 | 2 9 | 0 40 | 16 3 | 1 41 | 7 42 | 10 2 | 21 31 | 21 16 | 11 12 | | n.a. |
| F 30 | 23n39 | 22n53 | 4n37 | 24n40 | 1n49 | 18n 9 | 1s42 | 24n40 | 0n59 | 0n37 | 1n19 | 15n15 | 1n57 | 2n 9 | 0s40 | 16n 4 | 1s41 | 7n43 | 10s 2 | 21n30 | 21n16 | 11n10 | | n.a. |

Julian Day Number = 1691258.5, Delta T = 03h10m22s
Ecliptic obliquity = 23°42'22, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°12'17, Lahiri = - 5°05'17 Julian Calendar 1 June 83 BCE == Greg. Calendar 30 May 083 BCE

The year -82 astronomical counting style corresponds to year 083 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 83 BCE
# geocentric

## JULY 83 BCE (-82) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 23 37 | 4♋57'43 | 20♌16 | 16♋46 | 28♉36 | 3♋ 8 | 1♎33 | 24♌50 | 6♈54 | 19♉ 4 | 17♉54 | 5°R38 | 4♊21 | 13♍48 | n.a. | S 1 |
| S 2 | 18 27 34 | 5°55'05 | 2♍16 | 18°38 | 29°46 | 3°47 | 1°39 | 24°55 | 6°55 | 19° 6 | 17°55 | 5♊34 | 4°18 | 13°55 | n.a. | S 2 |
| M 3 | 18 31 31 | 6°52'27 | 14°10 | 20°29 | 0♊57 | 4°25 | 1°44 | 25° 1 | 6°55 | 19° 8 | 17°56 | 5°30 | 4°15 | 14° 1 | n.a. | M 3 |
| T 4 | 18 35 27 | 7°49'51 | 26° 3 | 22°18 | 2° 7 | 5° 4 | 1°50 | 25° 7 | 6°56 | 19° 9 | 17°57 | 5°28 | 4°12 | 14° 8 | n.a. | T 4 |
| W 5 | 18 39 24 | 8°47'15 | 7♎57 | 24° 5 | 3°17 | 5°42 | 1°56 | 25°12 | 6°57 | 19°11 | 17°58 | 5°D28 | 4° 9 | 14°15 | n.a. | W 5 |
| T 6 | 18 43 20 | 9°44'40 | 19°59 | 25°51 | 4°28 | 6°21 | 2° 2 | 25°18 | 6°57 | 19°12 | 17°59 | 5°28 | 4° 5 | 14°22 | n.a. | T 6 |
| F 7 | 18 47 17 | 10°42'06 | 2♏13 | 27°35 | 5°38 | 6°59 | 2° 8 | 25°24 | 6°58 | 19°14 | 18° 0 | 5°29 | 4° 2 | 14°28 | n.a. | F 7 |
| S 8 | 18 51 13 | 11°39'33 | 14°44 | 29°17 | 6°49 | 7°37 | 2°14 | 25°30 | 6°58 | 19°15 | 18° 1 | 5°31 | 3°59 | 14°35 | n.a. | S 8 |
| S 9 | 18 55 10 | 12°37'00 | 27°35 | 0♌58 | 8° 0 | 8°16 | 2°20 | 25°36 | 6°58 | 19°17 | 18° 2 | 5°32 | 3°56 | 14°42 | n.a. | S 9 |
| M10 | 18 59 6 | 13°34'29 | 10♐50 | 2°37 | 9°10 | 8°54 | 2°27 | 25°42 | 6°59 | 19°18 | 18° 3 | 5°R32 | 3°53 | 14°49 | n.a. | M10 |
| T 11 | 19 3 3 | 14°31'59 | 24°29 | 4°15 | 10°21 | 9°32 | 2°33 | 25°48 | 6°59 | 19°20 | 18° 4 | 5°31 | 3°49 | 14°55 | n.a. | T 11 |
| W12 | 19 7 0 | 15°29'30 | 8♑31 | 5°51 | 11°32 | 10°11 | 2°40 | 25°55 | 6°59 | 19°21 | 18° 4 | 5°28 | 3°46 | 15° 2 | n.a. | W12 |
| T 13 | 19 10 56 | 16°27'02 | 22°53 | 7°26 | 12°43 | 10°49 | 2°47 | 26° 1 | 6°59 | 19°23 | 18° 5 | 5°23 | 3°43 | 15° 9 | n.a. | T 13 |
| F 14 | 19 14 53 | 17°24'36 | 7♒30 | 8°59 | 13°54 | 11°27 | 2°54 | 26° 7 | 6°59 | 19°24 | 18° 6 | 5°17 | 3°40 | 15°15 | n.a. | F 14 |
| S 15 | 19 18 49 | 18°22'11 | 22°15 | 10°30 | 15° 6 | 12° 5 | 3° 1 | 26°13 | 7° 0 | 19°25 | 18° 7 | 5°10 | 3°37 | 15°22 | n.a. | S 15 |
| S 16 | 19 22 46 | 19°19'47 | 6♓59 | 12° 0 | 16°17 | 12°44 | 3° 9 | 26°20 | 7°R 0 | 19°27 | 18° 8 | 5° 4 | 3°34 | 15°29 | n.a. | S 16 |
| M17 | 19 26 42 | 20°17'25 | 21°35 | 13°28 | 17°28 | 13°22 | 3°16 | 26°26 | 7° 0 | 19°28 | 18° 8 | 5° 0 | 3°30 | 15°36 | n.a. | M17 |
| T 18 | 19 30 39 | 21°15'05 | 5♈59 | 14°55 | 18°40 | 14° 0 | 3°24 | 26°33 | 7° 0 | 19°29 | 18° 9 | 4°57 | 3°27 | 15°42 | n.a. | T 18 |
| W19 | 19 34 35 | 22°12'46 | 20° 8 | 16°20 | 19°51 | 14°39 | 3°31 | 26°39 | 6°59 | 19°31 | 18°10 | 4°D56 | 3°24 | 15°49 | n.a. | W19 |
| T 20 | 19 38 32 | 23°10'29 | 3♉59 | 17°44 | 21° 3 | 15°17 | 3°39 | 26°46 | 6°59 | 19°32 | 18°10 | 4°56 | 3°21 | 15°56 | n.a. | T 20 |
| F 21 | 19 42 29 | 24° 8'14 | 17°34 | 19° 5 | 22°14 | 15°55 | 3°47 | 26°52 | 6°59 | 19°33 | 18°11 | 4°57 | 3°18 | 16° 2 | n.a. | F 21 |
| S 22 | 19 46 25 | 25° 6'01 | 0♊53 | 20°25 | 23°26 | 16°33 | 3°55 | 26°59 | 6°59 | 19°34 | 18°12 | 4°R58 | 3°15 | 16° 9 | n.a. | S 22 |
| S 23 | 19 50 22 | 26° 3'49 | 13°58 | 21°43 | 24°38 | 17°12 | 4° 4 | 27° 5 | 6°58 | 19°35 | 18°12 | 4°58 | 3°11 | 16°16 | n.a. | S 23 |
| M24 | 19 54 18 | 27° 1'40 | 26°51 | 23° 0 | 25°50 | 17°50 | 4°12 | 27°12 | 6°58 | 19°36 | 18°13 | 4°56 | 3° 8 | 16°23 | n.a. | M24 |
| T 25 | 19 58 15 | 27°59'32 | 9♋32 | 24°14 | 27° 2 | 18°28 | 4°20 | 27°19 | 6°58 | 19°37 | 18°14 | 4°51 | 3° 5 | 16°29 | n.a. | T 25 |
| W26 | 20 2 11 | 28°57'26 | 22° 2 | 25°27 | 28°14 | 19° 6 | 4°29 | 27°26 | 6°57 | 19°38 | 18°14 | 4°44 | 3° 2 | 16°36 | n.a. | W26 |
| T 27 | 20 6 8 | 29°55'21 | 4♌23 | 26°38 | 29°26 | 19°44 | 4°38 | 27°32 | 6°57 | 19°39 | 18°15 | 4°35 | 2°59 | 16°43 | n.a. | T 27 |
| F 28 | 20 10 4 | 0♌53'18 | 16°34 | 27°46 | 0♋38 | 20°23 | 4°46 | 27°39 | 6°56 | 19°40 | 18°15 | 4°25 | 2°55 | 16°50 | n.a. | F 28 |
| S 29 | 20 14 1 | 1°51'17 | 28°37 | 28°52 | 1°50 | 21° 1 | 4°55 | 27°46 | 6°55 | 19°41 | 18°16 | 4°14 | 2°52 | 16°56 | n.a. | S 29 |
| S 30 | 20 17 58 | 2°49'17 | 10♍33 | 29°56 | 3° 2 | 21°39 | 5° 4 | 27°53 | 6°55 | 19°42 | 18°16 | 4° 4 | 2°49 | 17° 3 | n.a. | S 30 |
| M31 | 20 21 54 | 3♌47'18 | 22♍25 | 0♍58 | 4♋15 | 22♋17 | 5♎13 | 28♌ 0 | 6♈54 | 19♉43 | 18♉17 | 3♊55 | 2♊46 | 17♍10 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23n37 | 19n38 | 5n 1 | 24n25 | 1n48 | 18n27 | 1s39 | 24n39 | 0n59 | 0n35 | 1n19 | 15n13 | 1n57 | 2n 9 | 0s40 | 16n 4 | 1s41 | 7n43 | 10s 2 | 21n29 | 21n15 | 11n 7 | | n.a. |
| S 2 | 23 34 | 15 37 | 5 11 | 24 8 | 1 46 | 18 45 | 1 37 | 24 39 | 0 59 | 0 32 | 1 19 | 15 11 | 1 57 | 2 10 | 0 40 | 16 5 | 1 41 | 7 43 | 10 2 | 21 28 | 21 14 | 11 4 | | n.a. |
| M 3 | 23 32 | 11 2 | 5 8 | 23 50 | 1 43 | 19 2 | 1 34 | 24 38 | 1 0 | 0 30 | 1 18 | 15 9 | 1 57 | 2 10 | 0 40 | 16 5 | 1 41 | 7 43 | 10 2 | 21 28 | 21 14 | 11 1 | | n.a. |
| T 4 | 23 28 | 6 3 | 4 52 | 23 29 | 1 40 | 19 19 | 1 32 | 24 36 | 1 0 | 0 27 | 1 18 | 15 7 | 1 57 | 2 10 | 0 40 | 16 5 | 1 41 | 7 43 | 10 3 | 21 27 | 21 13 | 10 58 | | n.a. |
| W 5 | 23 25 | 0 50 | 4 23 | 23 7 | 1 37 | 19 35 | 1 29 | 24 35 | 1 0 | 0 25 | 1 18 | 15 5 | 1 57 | 2 10 | 0 40 | 16 6 | 1 41 | 7 43 | 10 3 | 21 27 | 21 13 | 10 56 | | n.a. |
| T 6 | 23 21 | 4s28 | 3 43 | 22 44 | 1 33 | 19 51 | 1 27 | 24 34 | 1 1 | 0 22 | 1 18 | 15 3 | 1 56 | 2 11 | 0 40 | 16 6 | 1 41 | 7 43 | 10 3 | 21 27 | 21 12 | 10 53 | | n.a. |
| F 7 | 23 16 | 9 42 | 2 51 | 22 19 | 1 28 | 20 6 | 1 24 | 24 32 | 1 1 | 0 19 | 1 17 | 15 1 | 1 56 | 2 11 | 0 40 | 16 7 | 1 41 | 7 44 | 10 3 | 21 27 | 21 11 | 10 50 | | n.a. |
| S 8 | 23 11 | 14 40 | 1 51 | 21 53 | 1 23 | 20 21 | 1 21 | 24 30 | 1 1 | 0 17 | 1 17 | 14 59 | 1 56 | 2 11 | 0 40 | 16 7 | 1 41 | 7 44 | 10 3 | 21 28 | 21 11 | 10 47 | | n.a. |
| S 9 | 23 6 | 19 8 | 0 43 | 21 26 | 1 18 | 20 36 | 1 19 | 24 28 | 1 1 | 0 14 | 1 17 | 14 57 | 1 56 | 2 11 | 0 40 | 16 7 | 1 41 | 7 44 | 10 3 | 21 28 | 21 10 | 10 44 | | n.a. |
| M10 | 23 0 | 22 47 | 0s29 | 20 58 | 1 12 | 20 49 | 1 16 | 24 26 | 1 2 | 0 11 | 1 16 | 14 55 | 1 56 | 2 11 | 0 40 | 16 8 | 1 41 | 7 44 | 10 3 | 21 28 | 21 10 | 10 42 | | n.a. |
| T 11 | 22 54 | 25 16 | 1 41 | 20 29 | 1 6 | 21 3 | 1 13 | 24 23 | 1 2 | 0 8 | 1 16 | 14 53 | 1 56 | 2 11 | 0 40 | 16 8 | 1 41 | 7 44 | 10 4 | 21 28 | 21 9 | 10 39 | | n.a. |
| W12 | 22 48 | 26 14 | 2 49 | 19 59 | 1 0 | 21 16 | 1 10 | 24 21 | 1 2 | 0 5 | 1 16 | 14 50 | 1 56 | 2 11 | 0 40 | 16 8 | 1 41 | 7 44 | 10 4 | 21 27 | 21 8 | 10 36 | | n.a. |
| T 13 | 22 41 | 25 29 | 3 48 | 19 29 | 0 53 | 21 28 | 1 7 | 24 18 | 1 3 | 0 2 | 1 16 | 14 48 | 1 56 | 2 11 | 0 40 | 16 9 | 1 41 | 7 44 | 10 4 | 21 26 | 21 8 | 10 33 | | n.a. |
| F 14 | 22 33 | 23 0 | 4 33 | 18 57 | 0 46 | 21 39 | 1 4 | 24 15 | 1 3 | 0s 1 | 1 15 | 14 46 | 1 56 | 2 11 | 0 40 | 16 9 | 1 41 | 7 44 | 10 4 | 21 25 | 21 7 | 10 30 | | n.a. |
| S 15 | 22 26 | 18 59 | 5 1 | 18 25 | 0 39 | 21 51 | 1 2 | 24 12 | 1 3 | 0 4 | 1 15 | 14 44 | 1 56 | 2 11 | 0 40 | 16 9 | 1 41 | 7 44 | 10 4 | 21 24 | 21 7 | 10 28 | | n.a. |
| S 16 | 22 18 | 13 48 | 5 8 | 17 53 | 0 31 | 22 1 | 0 59 | 24 8 | 1 3 | 0 7 | 1 15 | 14 41 | 1 56 | 2 11 | 0 40 | 16 10 | 1 41 | 7 44 | 10 4 | 21 23 | 21 6 | 10 25 | | n.a. |
| M17 | 22 9 | 7 53 | 4 56 | 17 20 | 0 23 | 22 11 | 0 56 | 24 5 | 1 4 | 0 10 | 1 15 | 14 39 | 1 56 | 2 11 | 0 40 | 16 10 | 1 41 | 7 44 | 10 4 | 21 22 | 21 5 | 10 22 | | n.a. |
| T 18 | 22 0 | 1 38 | 4 24 | 16 47 | 0 15 | 22 20 | 0 53 | 24 1 | 1 4 | 0 14 | 1 14 | 14 37 | 1 56 | 2 11 | 0 40 | 16 10 | 1 41 | 7 44 | 10 5 | 21 22 | 21 5 | 10 19 | | n.a. |
| W19 | 21 51 | 4n36 | 3 38 | 16 14 | 0 7 | 22 29 | 0 50 | 23 57 | 1 4 | 0 17 | 1 14 | 14 35 | 1 56 | 2 11 | 0 40 | 16 11 | 1 42 | 7 44 | 10 5 | 21 21 | 21 4 | 10 16 | | n.a. |
| T 20 | 21 41 | 10 30 | 2 39 | 15 40 | 0s 1 | 22 37 | 0 47 | 23 53 | 1 4 | 0 20 | 1 14 | 14 32 | 1 55 | 2 11 | 0 41 | 16 11 | 1 42 | 7 44 | 10 5 | 21 21 | 21 4 | 10 14 | | n.a. |
| F 21 | 21 31 | 15 47 | 1 32 | 15 6 | 0 10 | 22 45 | 0 44 | 23 49 | 1 5 | 0 24 | 1 14 | 14 30 | 1 55 | 2 11 | 0 41 | 16 11 | 1 42 | 7 45 | 10 5 | 21 22 | 21 3 | 10 11 | | n.a. |
| S 22 | 21 21 | 20 12 | 0 22 | 14 32 | 0 19 | 22 52 | 0 41 | 23 44 | 1 5 | 0 27 | 1 14 | 14 28 | 1 55 | 2 11 | 0 41 | 16 11 | 1 42 | 7 45 | 10 5 | 21 22 | 21 2 | 10 8 | | n.a. |
| S 23 | 21 10 | 23 32 | 0n48 | 13 59 | 0 28 | 22 58 | 0 38 | 23 40 | 1 5 | 0 31 | 1 13 | 14 25 | 1 55 | 2 11 | 0 41 | 16 12 | 1 42 | 7 45 | 10 5 | 21 22 | 21 2 | 10 5 | | n.a. |
| M24 | 20 59 | 25 35 | 1 55 | 13 25 | 0 37 | 23 4 | 0 35 | 23 35 | 1 5 | 0 34 | 1 13 | 14 23 | 1 55 | 2 10 | 0 41 | 16 12 | 1 42 | 7 45 | 10 5 | 21 21 | 21 1 | 10 2 | | n.a. |
| T 25 | 20 48 | 26 15 | 2 54 | 12 51 | 0 47 | 23 9 | 0 32 | 23 30 | 1 6 | 0 38 | 1 13 | 14 20 | 1 55 | 2 10 | 0 41 | 16 12 | 1 42 | 7 45 | 10 6 | 21 21 | 21 0 | 9 59 | | n.a. |
| W26 | 20 36 | 25 34 | 3 44 | 12 18 | 0 56 | 23 13 | 0 29 | 23 25 | 1 6 | 0 41 | 1 13 | 14 18 | 1 55 | 2 10 | 0 41 | 16 12 | 1 42 | 7 45 | 10 6 | 21 19 | 21 0 | 9 57 | | n.a. |
| T 27 | 20 24 | 23 38 | 4 23 | 11 45 | 1 6 | 23 17 | 0 26 | 23 20 | 1 6 | 0 45 | 1 12 | 14 16 | 1 55 | 2 10 | 0 41 | 16 13 | 1 42 | 7 45 | 10 6 | 21 18 | 20 59 | 9 54 | | n.a. |
| F 28 | 20 11 | 20 38 | 4 50 | 11 12 | 1 16 | 23 20 | 0 23 | 23 14 | 1 6 | 0 49 | 1 12 | 14 13 | 1 55 | 2 10 | 0 41 | 16 13 | 1 42 | 7 45 | 10 6 | 21 16 | 20 59 | 9 51 | | n.a. |
| S 29 | 19 58 | 16 48 | 5 2 | 10 40 | 1 25 | 23 22 | 0 20 | 23 8 | 1 7 | 0 53 | 1 12 | 14 11 | 1 55 | 2 9 | 0 41 | 16 13 | 1 42 | 7 44 | 10 6 | 21 14 | 20 58 | 9 48 | | n.a. |
| S 30 | 19 45 | 12 20 | 5 2 | 10 8 | 1 35 | 23 23 | 0 17 | 23 3 | 1 7 | 0 56 | 1 12 | 14 8 | 1 55 | 2 9 | 0 41 | 16 13 | 1 42 | 7 44 | 10 6 | 21 12 | 20 57 | 9 45 | | n.a. |
| M31 | 19n31 | 7n27 | 4n48 | 9n37 | 1s45 | 23n24 | 0s14 | 22n57 | 1n 7 | 1s 0 | 1n12 | 14n 6 | 1n55 | 2n 9 | 0s41 | 16n13 | 1s42 | 7n44 | 10s 7 | 21n10 | 20n57 | 9n42 | | n.a. |

Julian Day Number = 1691288.5, Delta T = 03h10m21s
Ecliptic obliquity = 23°42'22, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°12'13, Lahiri = - 5°05'13 Julian Calendar 1 July 83 BCE == Greg. Calendar 29 June 083 BCE

The year -82 astronomical counting style corresponds to year 083 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 83 BCE
# geocentric

## AUGUST 83 BCE (-82) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 25 51 | 4♌45'22 | 4♎16 | 1♍57 | 5♋27 | 22♋55 | 5♎23 | 28♌ 7 | 6°R53 | 19♉44 | 18♉17 | 3°R48 | 2♊43 | 17♍16 | n.a. | T 1 |
| W 2 | 20 29 47 | 5°43'26 | 16° 8 | 2°53 | 6°40 | 23°34 | 5°32 | 28°14 | 6♈53 | 19°45 | 18°18 | 3♊44 | 2°40 | 17°23 | n.a. | W 2 |
| T 3 | 20 33 44 | 6°41'32 | 28° 7 | 3°47 | 7°52 | 24°12 | 5°41 | 28°21 | 6°52 | 19°46 | 18°18 | 3°42 | 2°36 | 17°30 | n.a. | T 3 |
| F 4 | 20 37 40 | 7°39'40 | 10♏18 | 4°37 | 9° 5 | 24°50 | 5°51 | 28°28 | 6°51 | 19°46 | 18°18 | 3°D41 | 2°33 | 17°37 | n.a. | F 4 |
| S 5 | 20 41 37 | 8°37'50 | 22°45 | 5°24 | 10°17 | 25°28 | 6° 1 | 28°35 | 6°50 | 19°47 | 18°19 | 3°42 | 2°30 | 17°43 | n.a. | S 5 |
| S 6 | 20 45 33 | 9°36'01 | 5♐34 | 6° 8 | 11°30 | 26° 6 | 6°10 | 28°42 | 6°49 | 19°48 | 18°19 | 3°R42 | 2°27 | 17°50 | n.a. | S 6 |
| M 7 | 20 49 30 | 10°34'13 | 18°49 | 6°48 | 12°43 | 26°44 | 6°20 | 28°49 | 6°48 | 19°49 | 18°20 | 3°41 | 2°24 | 17°57 | n.a. | M 7 |
| T 8 | 20 53 27 | 11°32'27 | 2♑31 | 7°24 | 13°56 | 27°22 | 6°30 | 28°57 | 6°47 | 19°49 | 18°20 | 3°38 | 2°21 | 18° 3 | n.a. | T 8 |
| W 9 | 20 57 23 | 12°30'43 | 16°43 | 7°56 | 15° 9 | 28° 1 | 6°40 | 29° 4 | 6°46 | 19°50 | 18°20 | 3°33 | 2°17 | 18°10 | n.a. | W 9 |
| T 10 | 21 1 20 | 13°29'01 | 1♒20 | 8°23 | 16°22 | 28°39 | 6°50 | 29°11 | 6°45 | 19°50 | 18°20 | 3°25 | 2°14 | 18°17 | n.a. | T 10 |
| F 11 | 21 5 16 | 14°27'21 | 16°17 | 8°46 | 17°35 | 29°17 | 7° 1 | 29°18 | 6°43 | 19°51 | 18°21 | 3°15 | 2°11 | 18°24 | n.a. | F 11 |
| S 12 | 21 9 13 | 15°25'42 | 1♓24 | 9° 3 | 18°48 | 29°55 | 7°11 | 29°25 | 6°42 | 19°51 | 18°21 | 3° 5 | 2° 8 | 18°30 | n.a. | S 12 |
| S 13 | 21 13 9 | 16°24'05 | 16°31 | 9°15 | 20° 1 | 0♌33 | 7°21 | 29°33 | 6°41 | 19°52 | 18°21 | 2°55 | 2° 5 | 18°37 | n.a. | S 13 |
| M14 | 21 17 6 | 17°22'31 | 1♈29 | 9°21 | 21°14 | 1°11 | 7°32 | 29°40 | 6°39 | 19°52 | 18°21 | 2°47 | 2° 1 | 18°44 | n.a. | M14 |
| T 15 | 21 21 2 | 18°20'58 | 16° 9 | 9°R21 | 22°28 | 1°49 | 7°42 | 29°47 | 6°38 | 19°53 | 18°21 | 2°41 | 1°58 | 18°50 | n.a. | T 15 |
| W16 | 21 24 59 | 19°19'28 | 0♉27 | 9°15 | 23°41 | 2°27 | 7°53 | 29°54 | 6°37 | 19°53 | 18°22 | 2°38 | 1°55 | 18°57 | n.a. | W16 |
| T 17 | 21 28 56 | 20°18'01 | 14°21 | 9° 2 | 24°54 | 3° 5 | 8° 4 | 0♍ 2 | 6°35 | 19°53 | 18°22 | 2°37 | 1°52 | 19° 4 | n.a. | T 17 |
| F 18 | 21 32 52 | 21°16'35 | 27°52 | 8°42 | 26° 8 | 3°44 | 8°15 | 0° 9 | 6°34 | 19°54 | 18°22 | 2°37 | 1°49 | 19°11 | n.a. | F 18 |
| S 19 | 21 36 49 | 22°15'12 | 11♊ 2 | 8°15 | 27°21 | 4°22 | 8°25 | 0°16 | 6°32 | 19°54 | 18°22 | 2°36 | 1°46 | 19°17 | n.a. | S 19 |
| S 20 | 21 40 45 | 23°13'52 | 23°53 | 7°42 | 28°35 | 5° 0 | 8°36 | 0°24 | 6°31 | 19°54 | 18°22 | 2°35 | 1°42 | 19°24 | n.a. | S 20 |
| M21 | 21 44 42 | 24°12'33 | 6♋31 | 7° 2 | 29°49 | 5°38 | 8°48 | 0°31 | 6°29 | 19°55 | 18°22 | 2°31 | 1°39 | 19°31 | n.a. | M21 |
| T 22 | 21 48 38 | 25°11'17 | 18°56 | 6°15 | 1♌ 2 | 6°16 | 8°59 | 0°38 | 6°27 | 19°55 | 18°R22 | 2°25 | 1°36 | 19°37 | n.a. | T 22 |
| W23 | 21 52 35 | 26°10'03 | 1♌12 | 5°22 | 2°16 | 6°54 | 9°10 | 0°46 | 6°26 | 19°55 | 18°22 | 2°15 | 1°33 | 19°44 | n.a. | W23 |
| T 24 | 21 56 31 | 27° 8'52 | 13°21 | 4°25 | 3°30 | 7°32 | 9°21 | 0°53 | 6°24 | 19°55 | 18°22 | 2° 3 | 1°30 | 19°51 | n.a. | T 24 |
| F 25 | 22 0 28 | 28° 7'42 | 25°23 | 3°23 | 4°44 | 8°10 | 9°33 | 1° 1 | 6°22 | 19°55 | 18°22 | 1°49 | 1°27 | 19°58 | n.a. | F 25 |
| S 26 | 22 4 24 | 29° 6'35 | 7♍19 | 2°18 | 5°58 | 8°48 | 9°44 | 1° 8 | 6°20 | 19°55 | 18°22 | 1°34 | 1°23 | 20° 4 | n.a. | S 26 |
| S 27 | 22 8 21 | 0♍ 5'29 | 19°12 | 1°12 | 7°12 | 9°26 | 9°56 | 1°15 | 6°19 | 19°R55 | 18°22 | 1°20 | 1°20 | 20°11 | n.a. | S 27 |
| M28 | 22 12 18 | 1° 4'26 | 1♎ 3 | 0° 6 | 8°26 | 10° 5 | 10° 7 | 1°23 | 6°17 | 19°55 | 18°21 | 1° 8 | 1°17 | 20°18 | n.a. | M28 |
| T 29 | 22 16 14 | 2° 3'24 | 12°53 | 29♌ 2 | 9°40 | 10°43 | 10°19 | 1°30 | 6°15 | 19°55 | 18°21 | 0°58 | 1°14 | 20°24 | n.a. | T 29 |
| W30 | 22 20 11 | 3° 2'25 | 24°45 | 28° 1 | 10°54 | 11°21 | 10°30 | 1°37 | 6°13 | 19°55 | 18°21 | 0°52 | 1°11 | 20°31 | n.a. | W30 |
| T 31 | 22 24 7 | 4♍ 1'27 | 6♏44 | 27♌ 6 | 12♌ 8 | 11♌59 | 10♎42 | 1♍45 | 6♈11 | 19♉55 | 18♉21 | 0♊48 | 1♊ 7 | 20♍38 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 19n17 | 2n18 | 4n23 | 9n 7 | 1s55 | 23n25 | 0s11 | 22n50 | 1n 7 | 1s 4 | 1n11 | 14n 3 | 1n55 | 2n 8 | 0s41 | 16n14 | 1s42 | 7n44 | 10s 7 | 21n 9 | 20n56 | 9n39 | | | n.a. |
| W 2 | 19 3 | 2s57 | 3 45 | 8 37 | 2 5 | 23 24 | 0 8 | 22 44 | 1 7 | 1 8 | 1 11 | 14 1 | 1 55 | 2 8 | 0 41 | 16 14 | 1 42 | 7 44 | 10 7 | 21 8 | 20 55 | 9 37 | | | n.a. |
| T 3 | 18 48 | 8 10 | 2 58 | 8 8 | 2 15 | 23 23 | 0 5 | 22 37 | 1 8 | 1 12 | 1 11 | 13 58 | 1 55 | 2 8 | 0 41 | 16 14 | 1 42 | 7 44 | 10 7 | 21 8 | 20 55 | 9 34 | | | n.a. |
| F 4 | 18 34 | 13 9 | 2 1 | 7 41 | 2 25 | 23 21 | 0 2 | 22 31 | 1 8 | 1 16 | 1 11 | 13 56 | 1 55 | 2 7 | 0 41 | 16 14 | 1 42 | 7 44 | 10 7 | 21 7 | 20 54 | 9 31 | | | n.a. |
| S 5 | 18 18 | 17 44 | 0 58 | 7 15 | 2 34 | 23 19 | 0n 1 | 22 24 | 1 8 | 1 20 | 1 10 | 13 53 | 1 55 | 2 7 | 0 41 | 16 14 | 1 42 | 7 44 | 10 8 | 21 8 | 20 54 | 9 28 | | | n.a. |
| S 6 | 18 3 | 21 38 | 0s10 | 6 50 | 2 44 | 23 16 | 0 4 | 22 17 | 1 8 | 1 24 | 1 10 | 13 51 | 1 55 | 2 7 | 0 41 | 16 14 | 1 42 | 7 44 | 10 8 | 21 8 | 20 53 | 9 25 | | | n.a. |
| M 7 | 17 47 | 24 33 | 1 19 | 6 26 | 2 53 | 23 12 | 0 7 | 22 10 | 1 9 | 1 28 | 1 10 | 13 48 | 1 55 | 2 6 | 0 41 | 16 15 | 1 42 | 7 44 | 10 8 | 21 7 | 20 52 | 9 22 | | | n.a. |
| T 8 | 17 31 | 26 8 | 2 27 | 6 4 | 3 2 | 23 7 | 0 9 | 22 2 | 1 9 | 1 33 | 1 10 | 13 46 | 1 55 | 2 6 | 0 41 | 16 15 | 1 42 | 7 44 | 10 8 | 21 7 | 20 52 | 9 19 | | | n.a. |
| W 9 | 17 14 | 26 4 | 3 27 | 5 44 | 3 11 | 23 2 | 0 12 | 21 55 | 1 9 | 1 37 | 1 10 | 13 43 | 1 55 | 2 5 | 0 41 | 16 15 | 1 43 | 7 44 | 10 8 | 21 6 | 20 51 | 9 16 | | | n.a. |
| T 10 | 16 58 | 24 14 | 4 16 | 5 26 | 3 19 | 22 56 | 0 15 | 21 47 | 1 9 | 1 41 | 1 10 | 13 41 | 1 55 | 2 5 | 0 41 | 16 15 | 1 43 | 7 44 | 10 8 | 21 4 | 20 50 | 9 13 | | | n.a. |
| F 11 | 16 41 | 20 43 | 4 48 | 5 10 | 3 27 | 22 50 | 0 18 | 21 40 | 1 9 | 1 45 | 1 9 | 13 38 | 1 55 | 2 4 | 0 41 | 16 15 | 1 43 | 7 44 | 10 9 | 21 2 | 20 50 | 9 11 | | | n.a. |
| S 12 | 16 23 | 15 47 | 5 1 | 4 57 | 3 35 | 22 42 | 0 20 | 21 32 | 1 10 | 1 49 | 1 9 | 13 36 | 1 55 | 2 4 | 0 41 | 16 15 | 1 43 | 7 43 | 10 9 | 21 0 | 20 49 | 9 8 | | | n.a. |
| S 13 | 16 6 | 9 52 | 4 53 | 4 46 | 3 42 | 22 35 | 0 23 | 21 24 | 1 10 | 1 54 | 1 9 | 13 33 | 1 55 | 2 3 | 0 41 | 16 15 | 1 43 | 7 43 | 10 9 | 20 58 | 20 48 | 9 5 | | | n.a. |
| M14 | 15 48 | 3 27 | 4 25 | 4 38 | 3 48 | 22 26 | 0 26 | 21 15 | 1 10 | 1 58 | 1 9 | 13 30 | 1 55 | 2 3 | 0 41 | 16 15 | 1 43 | 7 43 | 10 9 | 20 57 | 20 48 | 9 2 | | | n.a. |
| T 15 | 15 30 | 3n 3 | 3 40 | 4 33 | 3 54 | 22 17 | 0 28 | 21 7 | 1 10 | 2 3 | 1 9 | 13 28 | 1 55 | 2 2 | 0 41 | 16 15 | 1 43 | 7 43 | 10 9 | 20 56 | 20 47 | 8 59 | | | n.a. |
| W16 | 15 11 | 9 14 | 2 41 | 4 31 | 3 58 | 22 7 | 0 31 | 20 58 | 1 10 | 2 7 | 1 8 | 13 25 | 1 55 | 2 1 | 0 41 | 16 15 | 1 43 | 7 43 | 10 10 | 20 55 | 20 47 | 8 56 | | | n.a. |
| T 17 | 14 53 | 14 49 | 1 35 | 4 33 | 4 2 | 21 56 | 0 33 | 20 50 | 1 11 | 2 11 | 1 8 | 13 23 | 1 55 | 2 1 | 0 41 | 16 15 | 1 43 | 7 43 | 10 10 | 20 55 | 20 46 | 8 53 | | | n.a. |
| F 18 | 14 34 | 19 30 | 0 25 | 4 38 | 4 4 | 21 45 | 0 36 | 20 41 | 1 11 | 2 16 | 1 8 | 13 20 | 1 55 | 2 0 | 0 41 | 16 15 | 1 43 | 7 43 | 10 10 | 20 55 | 20 45 | 8 50 | | | n.a. |
| S 19 | 14 15 | 23 5 | 0n44 | 4 47 | 4 5 | 21 33 | 0 38 | 20 32 | 1 11 | 2 20 | 1 8 | 13 17 | 1 55 | 2 0 | 0 41 | 16 15 | 1 43 | 7 43 | 10 10 | 20 55 | 20 45 | 8 47 | | | n.a. |
| S 20 | 13 56 | 25 24 | 1 50 | 5 0 | 4 4 | 21 20 | 0 41 | 20 23 | 1 11 | 2 25 | 1 8 | 13 15 | 1 55 | 1 59 | 0 41 | 16 15 | 1 43 | 7 42 | 10 10 | 20 55 | 20 44 | 8 44 | | | n.a. |
| M21 | 13 36 | 26 21 | 2 49 | 5 17 | 4 2 | 21 7 | 0 43 | 20 13 | 1 11 | 2 29 | 1 8 | 13 12 | 1 55 | 1 58 | 0 41 | 16 15 | 1 43 | 7 42 | 10 10 | 20 54 | 20 43 | 8 41 | | | n.a. |
| T 22 | 13 16 | 25 57 | 3 38 | 5 38 | 3 58 | 20 53 | 0 45 | 20 4 | 1 11 | 2 34 | 1 7 | 13 10 | 1 55 | 1 58 | 0 41 | 16 15 | 1 43 | 7 42 | 10 11 | 20 52 | 20 43 | 8 39 | | | n.a. |
| W23 | 12 56 | 24 17 | 4 17 | 6 3 | 3 52 | 20 39 | 0 48 | 19 54 | 1 12 | 2 39 | 1 7 | 13 7 | 1 55 | 1 57 | 0 41 | 16 15 | 1 43 | 7 42 | 10 11 | 20 51 | 20 42 | 8 36 | | | n.a. |
| T 24 | 12 36 | 21 31 | 4 44 | 6 32 | 3 44 | 20 24 | 0 50 | 19 45 | 1 12 | 2 43 | 1 7 | 13 4 | 1 55 | 1 56 | 0 41 | 16 15 | 1 43 | 7 42 | 10 11 | 20 48 | 20 41 | 8 33 | | | n.a. |
| F 25 | 12 15 | 17 52 | 4 57 | 7 3 | 3 34 | 20 8 | 0 52 | 19 35 | 1 12 | 2 48 | 1 7 | 13 2 | 1 55 | 1 55 | 0 41 | 16 15 | 1 43 | 7 41 | 10 11 | 20 45 | 20 41 | 8 30 | | | n.a. |
| S 26 | 11 55 | 13 31 | 4 58 | 7 38 | 3 22 | 19 52 | 0 54 | 19 25 | 1 12 | 2 53 | 1 7 | 12 59 | 1 55 | 1 55 | 0 41 | 16 15 | 1 43 | 7 41 | 10 11 | 20 42 | 20 40 | 8 27 | | | n.a. |
| S 27 | 11 34 | 8 41 | 4 45 | 8 14 | 3 8 | 19 35 | 0 56 | 19 15 | 1 12 | 2 57 | 1 7 | 12 56 | 1 55 | 1 54 | 0 41 | 16 15 | 1 43 | 7 41 | 10 11 | 20 39 | 20 39 | 8 24 | | | n.a. |
| M28 | 11 13 | 3 33 | 4 20 | 8 52 | 2 53 | 19 18 | 0 58 | 19 5 | 1 12 | 3 2 | 1 6 | 12 54 | 1 55 | 1 53 | 0 41 | 16 15 | 1 44 | 7 41 | 10 12 | 20 37 | 20 39 | 8 21 | | | n.a. |
| T 29 | 10 52 | 1s43 | 3 44 | 9 31 | 2 36 | 19 0 | 1 0 | 18 54 | 1 13 | 3 7 | 1 6 | 12 51 | 1 55 | 1 52 | 0 41 | 16 15 | 1 44 | 7 41 | 10 12 | 20 35 | 20 38 | 8 18 | | | n.a. |
| W30 | 10 30 | 6 56 | 2 58 | 10 9 | 2 17 | 18 41 | 1 2 | 18 44 | 1 13 | 3 12 | 1 6 | 12 49 | 1 55 | 1 52 | 0 41 | 16 15 | 1 44 | 7 40 | 10 12 | 20 34 | 20 37 | 8 15 | | | n.a. |
| T 31 | 10n 9 | 11s58 | 2n 3 | 10n46 | 1s58 | 18n22 | 1n 4 | 18n33 | 1n13 | 3s16 | 1n 6 | 12n46 | 1n56 | 1n51 | 0s41 | 16n15 | 1s44 | 7n40 | 10s12 | 20n33 | 20n37 | 8n12 | | | n.a. |

Julian Day Number = 1691319.5, Delta T = 03h10m20s
Ecliptic obliquity = 23°42'22, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°12'09, Lahiri = - 5°05'09 Julian Calendar 1 Aug. 83 BCE == Greg. Calendar 30 July 083 BCE

The year -82 astronomical counting style corresponds to year 083 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 83 BCE
# geocentric

## SEPTEMBER 83 BCE (-82) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 22 28 4 | 5♍ 0'31 | 18♏52 | 26°R17 | 13♌22 | 12♌37 | 10♎54 | 1♍52 | 6°R 9 | 19°R55 | 18°R21 | 0°R46 | 1♊ 4 | 20♍45 | n.a. | F 1 |
| S 2 | 22 32 0 | 5°59'38 | 1♐16 | 25♌36 | 14°36 | 13°15 | 11° 6 | 2° 0 | 6♈ 7 | 19♉54 | 18♉21 | 0♊46 | 1° 1 | 20°51 | n.a. | S 2 |
| S 3 | 22 35 57 | 6°58'46 | 13°59 | 25° 4 | 15°51 | 13°53 | 11°18 | 2° 7 | 6° 5 | 19°54 | 18°20 | 0°46 | 0°58 | 20°58 | n.a. | S 3 |
| M 4 | 22 39 53 | 7°57'56 | 27° 8 | 24°42 | 17° 5 | 14°31 | 11°30 | 2°14 | 6° 3 | 19°54 | 18°20 | 0°45 | 0°55 | 21° 5 | n.a. | M 4 |
| T 5 | 22 43 50 | 8°57'08 | 10♑45 | 24°31 | 18°19 | 15° 9 | 11°42 | 2°22 | 6° 1 | 19°54 | 18°20 | 0°41 | 0°52 | 21°12 | n.a. | T 5 |
| W 6 | 22 47 47 | 9°56'22 | 24°52 | 24°D30 | 19°34 | 15°47 | 11°54 | 2°29 | 5°59 | 19°53 | 18°19 | 0°36 | 0°48 | 21°18 | n.a. | W 6 |
| T 7 | 22 51 43 | 10°55'37 | 9♒29 | 24°39 | 20°48 | 16°25 | 12° 6 | 2°36 | 5°56 | 19°53 | 18°19 | 0°28 | 0°45 | 21°25 | n.a. | T 7 |
| F 8 | 22 55 40 | 11°54'55 | 24°29 | 24°59 | 22° 3 | 17° 3 | 12°19 | 2°44 | 5°54 | 19°53 | 18°19 | 0°18 | 0°42 | 21°32 | n.a. | F 8 |
| S 9 | 22 59 36 | 12°54'14 | 9♓45 | 25°29 | 23°17 | 17°41 | 12°31 | 2°51 | 5°52 | 19°52 | 18°18 | 0° 7 | 0°39 | 21°38 | n.a. | S 9 |
| S 10 | 23 3 33 | 13°53'36 | 25° 6 | 26° 8 | 24°32 | 18°20 | 12°43 | 2°58 | 5°50 | 19°52 | 18°18 | 29♉56 | 0°36 | 21°45 | n.a. | S 10 |
| M11 | 23 7 29 | 14°53'00 | 10♈20 | 26°56 | 25°46 | 18°58 | 12°56 | 3° 6 | 5°48 | 19°51 | 18°17 | 29°47 | 0°32 | 21°52 | n.a. | M11 |
| T 12 | 23 11 26 | 15°52'26 | 25°16 | 27°51 | 27° 1 | 19°36 | 13° 8 | 3°13 | 5°45 | 19°51 | 18°17 | 29°41 | 0°29 | 21°59 | n.a. | T 12 |
| W13 | 23 15 22 | 16°51'55 | 9♉49 | 28°54 | 28°16 | 20°14 | 13°21 | 3°20 | 5°43 | 19°50 | 18°17 | 29°37 | 0°26 | 22° 5 | n.a. | W13 |
| T 14 | 23 19 19 | 17°51'26 | 23°53 | 0♍ 3 | 29°31 | 20°52 | 13°33 | 3°27 | 5°41 | 19°49 | 18°16 | 29°D36 | 0°23 | 22°12 | n.a. | T 14 |
| F 15 | 23 23 15 | 18°50'59 | 7♊30 | 1°18 | 0♍45 | 21°30 | 13°46 | 3°35 | 5°38 | 19°49 | 18°16 | 29°36 | 0°20 | 22°19 | n.a. | F 15 |
| S 16 | 23 27 12 | 19°50'35 | 20°41 | 2°38 | 2° 0 | 22° 8 | 13°58 | 3°42 | 5°36 | 19°48 | 18°15 | 29°R36 | 0°17 | 22°25 | n.a. | S 16 |
| S 17 | 23 31 9 | 20°50'13 | 3♋30 | 4° 2 | 3°15 | 22°46 | 14°11 | 3°49 | 5°34 | 19°47 | 18°15 | 29°36 | 0°13 | 22°32 | n.a. | S 17 |
| M18 | 23 35 5 | 21°49'54 | 16° 1 | 5°30 | 4°30 | 23°24 | 14°24 | 3°56 | 5°31 | 19°47 | 18°14 | 29°33 | 0°10 | 22°39 | n.a. | M18 |
| T 19 | 23 39 2 | 22°49'37 | 28°18 | 7° 1 | 5°45 | 24° 2 | 14°37 | 4° 3 | 5°29 | 19°46 | 18°13 | 29°28 | 0° 7 | 22°46 | n.a. | T 19 |
| W20 | 23 42 58 | 23°49'22 | 10♌25 | 8°34 | 7° 0 | 24°40 | 14°49 | 4°10 | 5°26 | 19°45 | 18°13 | 29°20 | 0° 4 | 22°52 | n.a. | W20 |
| T 21 | 23 46 55 | 24°49'10 | 22°25 | 10° 9 | 8°15 | 25°18 | 15° 2 | 4°17 | 5°24 | 19°44 | 18°12 | 29° 9 | 0° 1 | 22°59 | n.a. | T 21 |
| F 22 | 23 50 51 | 25°48'59 | 4♍20 | 11°46 | 9°30 | 25°56 | 15°15 | 4°24 | 5°22 | 19°44 | 18°12 | 28°57 | 29♉58 | 23° 6 | n.a. | F 22 |
| S 23 | 23 54 48 | 26°48'51 | 16°13 | 13°24 | 10°45 | 26°35 | 15°28 | 4°31 | 5°19 | 19°43 | 18°11 | 28°45 | 29°54 | 23°12 | n.a. | S 23 |
| S 24 | 23 58 44 | 27°48'45 | 28° 4 | 15° 3 | 12° 0 | 27°13 | 15°41 | 4°38 | 5°17 | 19°42 | 18°10 | 28°33 | 29°51 | 23°19 | n.a. | S 24 |
| M25 | 0 2 41 | 28°48'41 | 9♎56 | 16°42 | 13°15 | 27°51 | 15°54 | 4°45 | 5°14 | 19°41 | 18°10 | 28°22 | 29°48 | 23°26 | n.a. | M25 |
| T 26 | 0 6 38 | 29°48'39 | 21°49 | 18°23 | 14°30 | 28°29 | 16° 7 | 4°52 | 5°12 | 19°40 | 18° 9 | 28°14 | 29°45 | 23°32 | n.a. | T 26 |
| W27 | 0 10 34 | 0♎48'39 | 3♏46 | 20° 3 | 15°45 | 29° 7 | 16°20 | 4°59 | 5° 9 | 19°39 | 18° 8 | 28° 8 | 29°42 | 23°39 | n.a. | W27 |
| T 28 | 0 14 31 | 1°48'40 | 15°49 | 21°44 | 17° 0 | 29°45 | 16°33 | 5° 6 | 5° 7 | 19°38 | 18° 7 | 28° 5 | 29°38 | 23°46 | n.a. | T 28 |
| F 29 | 0 18 27 | 2°48'44 | 28° 2 | 23°25 | 18°16 | 0♍23 | 16°46 | 5°13 | 5° 4 | 19°37 | 18° 7 | 28°D 4 | 29°35 | 23°53 | n.a. | F 29 |
| S 30 | 0 22 24 | 3♎48'49 | 10♐27 | 25♍ 6 | 19♍31 | 1♍ 1 | 16♎59 | 5♍20 | 5♈ 2 | 19♉36 | 18♉ 6 | 28♉ 5 | 29♉32 | 23♍59 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 9n47 | 16s38 | 1n 2 | 11n21 | 1s38 | 18n 3 | 1n 6 | 18n23 | 1n13 | 3s21 | 1n 6 | 12n43 | 1n56 | 1n50 | 0s41 | 16n15 | 1s44 | 7n40 | 10s12 | 20n32 | 20n36 | 8n 9 | | n.a. |
| S 2 | 9 25 | 20 41 | 0s 3 | 11 54 | 1 18 | 17 42 | 1 7 | 18 12 | 1 13 | 3 26 | 1 6 | 12 41 | 1 56 | 1 49 | 0 42 | 16 15 | 1 44 | 7 40 | 10 13 | 20 32 | 20 35 | 8 6 | | n.a. |
| S 3 | 9 3 | 23 53 | 1 9 | 12 24 | 0 58 | 17 22 | 1 9 | 18 1 | 1 13 | 3 31 | 1 6 | 12 38 | 1 56 | 1 48 | 0 42 | 16 15 | 1 44 | 7 40 | 10 13 | 20 32 | 20 35 | 8 3 | | n.a. |
| M 4 | 8 41 | 25 55 | 2 15 | 12 50 | 0 39 | 17 1 | 1 11 | 17 50 | 1 14 | 3 36 | 1 5 | 12 35 | 1 56 | 1 48 | 0 42 | 16 15 | 1 44 | 7 39 | 10 13 | 20 32 | 20 34 | 8 0 | | n.a. |
| T 5 | 8 18 | 26 30 | 3 15 | 13 11 | 0 20 | 16 39 | 1 12 | 17 39 | 1 14 | 3 41 | 1 5 | 12 33 | 1 56 | 1 47 | 0 42 | 16 14 | 1 44 | 7 39 | 10 13 | 20 31 | 20 33 | 7 57 | | n.a. |
| W 6 | 7 56 | 25 24 | 4 5 | 13 29 | 0 2 | 16 17 | 1 14 | 17 27 | 1 14 | 3 46 | 1 5 | 12 30 | 1 56 | 1 46 | 0 42 | 16 14 | 1 44 | 7 39 | 10 13 | 20 30 | 20 33 | 7 54 | | n.a. |
| T 7 | 7 33 | 22 35 | 4 41 | 13 41 | 0n15 | 15 54 | 1 15 | 17 16 | 1 14 | 3 50 | 1 5 | 12 28 | 1 56 | 1 45 | 0 42 | 16 14 | 1 44 | 7 39 | 10 13 | 20 29 | 20 32 | 7 51 | | n.a. |
| F 8 | 7 10 | 18 12 | 4 59 | 13 50 | 0 31 | 15 31 | 1 16 | 17 4 | 1 14 | 3 55 | 1 5 | 12 25 | 1 56 | 1 44 | 0 42 | 16 14 | 1 44 | 7 38 | 10 14 | 20 26 | 20 32 | 7 48 | | n.a. |
| S 9 | 6 47 | 12 34 | 4 57 | 13 53 | 0 46 | 15 8 | 1 18 | 16 53 | 1 14 | 4 0 | 1 5 | 12 22 | 1 56 | 1 43 | 0 42 | 16 14 | 1 44 | 7 38 | 10 14 | 20 24 | 20 31 | 7 45 | | n.a. |
| S 10 | 6 24 | 6 8 | 4 33 | 13 52 | 0 59 | 14 44 | 1 19 | 16 41 | 1 14 | 4 5 | 1 5 | 12 20 | 1 56 | 1 42 | 0 42 | 16 14 | 1 44 | 7 38 | 10 14 | 20 22 | 20 30 | 7 42 | | n.a. |
| M11 | 6 1 | 0n37 | 3 49 | 13 47 | 1 11 | 14 19 | 1 20 | 16 29 | 1 14 | 4 10 | 1 4 | 12 17 | 1 56 | 1 41 | 0 42 | 16 14 | 1 44 | 7 38 | 10 14 | 20 20 | 20 29 | 7 39 | | n.a. |
| T 12 | 5 38 | 7 14 | 2 51 | 13 37 | 1 21 | 13 55 | 1 21 | 16 17 | 1 15 | 4 15 | 1 4 | 12 15 | 1 56 | 1 40 | 0 42 | 16 13 | 1 44 | 7 37 | 10 14 | 20 19 | 20 29 | 7 36 | | n.a. |
| W13 | 5 15 | 13 18 | 1 43 | 13 23 | 1 30 | 13 29 | 1 22 | 16 5 | 1 15 | 4 20 | 1 4 | 12 12 | 1 56 | 1 40 | 0 42 | 16 13 | 1 44 | 7 37 | 10 14 | 20 18 | 20 28 | 7 33 | | n.a. |
| T 14 | 4 51 | 18 28 | 0 30 | 13 6 | 1 38 | 13 4 | 1 23 | 15 53 | 1 15 | 4 25 | 1 4 | 12 10 | 1 57 | 1 39 | 0 42 | 16 13 | 1 44 | 7 37 | 10 15 | 20 17 | 20 27 | 7 30 | | n.a. |
| F 15 | 4 28 | 22 30 | 0n42 | 12 45 | 1 44 | 12 38 | 1 24 | 15 41 | 1 15 | 4 30 | 1 4 | 12 7 | 1 57 | 1 38 | 0 42 | 16 13 | 1 44 | 7 36 | 10 15 | 20 17 | 20 27 | 7 27 | | n.a. |
| S 16 | 4 4 | 25 12 | 1 50 | 12 21 | 1 49 | 12 12 | 1 25 | 15 28 | 1 15 | 4 35 | 1 4 | 12 4 | 1 57 | 1 37 | 0 42 | 16 13 | 1 44 | 7 36 | 10 15 | 20 17 | 20 26 | 7 24 | | n.a. |
| S 17 | 3 40 | 26 29 | 2 50 | 11 54 | 1 53 | 11 45 | 1 26 | 15 16 | 1 15 | 4 41 | 1 4 | 12 2 | 1 57 | 1 36 | 0 42 | 16 12 | 1 45 | 7 36 | 10 15 | 20 17 | 20 25 | 7 21 | | n.a. |
| M18 | 3 16 | 26 23 | 3 40 | 11 24 | 1 56 | 11 18 | 1 26 | 15 3 | 1 15 | 4 46 | 1 4 | 11 59 | 1 57 | 1 35 | 0 42 | 16 12 | 1 45 | 7 36 | 10 15 | 20 17 | 20 25 | 7 18 | | n.a. |
| T 19 | 2 53 | 24 58 | 4 19 | 10 52 | 1 59 | 10 51 | 1 27 | 14 50 | 1 15 | 4 51 | 1 4 | 11 57 | 1 57 | 1 34 | 0 42 | 16 12 | 1 45 | 7 35 | 10 15 | 20 16 | 20 24 | 7 15 | | n.a. |
| W20 | 2 29 | 22 25 | 4 46 | 10 18 | 2 0 | 10 23 | 1 27 | 14 38 | 1 16 | 4 56 | 1 3 | 11 54 | 1 57 | 1 33 | 0 42 | 16 12 | 1 45 | 7 35 | 10 15 | 20 14 | 20 23 | 7 12 | | n.a. |
| T 21 | 2 5 | 18 55 | 5 0 | 9 42 | 2 0 | 9 55 | 1 28 | 14 25 | 1 16 | 5 1 | 1 3 | 11 52 | 1 57 | 1 32 | 0 42 | 16 11 | 1 45 | 7 35 | 10 16 | 20 12 | 20 23 | 7 9 | | n.a. |
| F 22 | 1 41 | 14 41 | 5 1 | 9 4 | 2 0 | 9 27 | 1 28 | 14 12 | 1 16 | 5 6 | 1 3 | 11 49 | 1 57 | 1 31 | 0 42 | 16 11 | 1 45 | 7 34 | 10 16 | 20 9 | 20 22 | 7 6 | | n.a. |
| S 23 | 1 17 | 9 55 | 4 49 | 8 25 | 1 58 | 8 59 | 1 29 | 13 59 | 1 16 | 5 11 | 1 3 | 11 47 | 1 58 | 1 30 | 0 42 | 16 11 | 1 45 | 7 34 | 10 16 | 20 6 | 20 21 | 7 3 | | n.a. |
| S 24 | 0 53 | 4 48 | 4 24 | 7 45 | 1 57 | 8 30 | 1 29 | 13 46 | 1 16 | 5 16 | 1 3 | 11 44 | 1 58 | 1 29 | 0 42 | 16 10 | 1 45 | 7 34 | 10 16 | 20 3 | 20 21 | 7 0 | | n.a. |
| M25 | 0 29 | 0s30 | 3 48 | 7 3 | 1 54 | 8 1 | 1 29 | 13 33 | 1 16 | 5 21 | 1 3 | 11 42 | 1 58 | 1 28 | 0 42 | 16 10 | 1 45 | 7 33 | 10 16 | 20 1 | 20 20 | 6 57 | | n.a. |
| T 26 | 0 5 | 5 48 | 3 1 | 6 21 | 1 51 | 7 32 | 1 29 | 13 19 | 1 16 | 5 26 | 1 3 | 11 39 | 1 58 | 1 27 | 0 42 | 16 10 | 1 45 | 7 33 | 10 16 | 19 59 | 20 19 | 6 54 | | n.a. |
| W27 | 0s20 | 10 56 | 2 6 | 5 38 | 1 48 | 7 3 | 1 29 | 13 6 | 1 16 | 5 32 | 1 3 | 11 37 | 1 58 | 1 26 | 0 42 | 16 10 | 1 45 | 7 33 | 10 16 | 19 58 | 20 19 | 6 51 | | n.a. |
| T 28 | 0 44 | 15 43 | 1 5 | 4 54 | 1 44 | 6 33 | 1 29 | 12 52 | 1 16 | 5 37 | 1 3 | 11 34 | 1 58 | 1 25 | 0 42 | 16 9 | 1 45 | 7 32 | 10 16 | 19 57 | 20 18 | 6 48 | | n.a. |
| F 29 | 1 8 | 19 56 | 0 0 | 4 10 | 1 40 | 6 3 | 1 29 | 12 39 | 1 16 | 5 42 | 1 3 | 11 32 | 1 58 | 1 24 | 0 42 | 16 9 | 1 45 | 7 32 | 10 17 | 19 57 | 20 17 | 6 45 | | n.a. |
| S 30 | 1s32 | 23s21 | 1s 6 | 3n26 | 1n35 | 5n33 | 1n29 | 12n25 | 1n16 | 5s47 | 1n 3 | 11n30 | 1n58 | 1n23 | 0s42 | 16n 9 | 1s45 | 7n32 | 10s17 | 19n57 | 20n17 | 6n42 | | n.a. |

Julian Day Number = 1691350.5, Delta T = 03h10m19s
Ecliptic obliquity = 23°42'23, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°12'05, Lahiri = - 5°05'04 Julian Calendar 1 Sept. 83 BCE == Greg. Calendar 30 Aug. 083 BCE

The year -82 astronomical counting style corresponds to year 083 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 83 BCE
# geocentric

## OCTOBER 83 BCE (-82) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 0 26 20 | 4♎48'57 | 23♐10 | 26♍46 | 20♍46 | 1♍39 | 17♎12 | 5♍27 | 5°R 0 | 19°R35 | 18°R 5 | 28♉ 6 | 29♉29 | 24♍ 6 | n.a. | S 1 |
| M 2 | 0 30 17 | 5°49'05 | 6♑13 | 28°27 | 22° 1 | 2°17 | 17°25 | 5°33 | 4♈57 | 19♉34 | 18♉ 4 | 28°R 6 | 29°26 | 24°13 | n.a. | M 2 |
| T 3 | 0 34 13 | 6°49'16 | 19°42 | 0♎ 7 | 23°17 | 2°55 | 17°38 | 5°40 | 4°55 | 19°33 | 18° 3 | 28° 5 | 29°23 | 24°19 | n.a. | T 3 |
| W 4 | 0 38 10 | 7°49'28 | 3♒37 | 1°47 | 24°32 | 3°33 | 17°52 | 5°47 | 4°52 | 19°31 | 18° 3 | 28° 3 | 29°19 | 24°26 | n.a. | W 4 |
| T 5 | 0 42 7 | 8°49'41 | 18° 1 | 3°26 | 25°47 | 4°11 | 18° 5 | 5°53 | 4°50 | 19°30 | 18° 2 | 27°58 | 29°16 | 24°33 | n.a. | T 5 |
| F 6 | 0 46 3 | 9°49'57 | 2♓48 | 5° 6 | 27° 3 | 4°50 | 18°18 | 6° 0 | 4°47 | 19°29 | 18° 1 | 27°51 | 29°13 | 24°40 | n.a. | F 6 |
| S 7 | 0 50 0 | 10°50'13 | 17°55 | 6°44 | 28°18 | 5°28 | 18°31 | 6° 6 | 4°45 | 19°28 | 18° 0 | 27°44 | 29°10 | 24°46 | n.a. | S 7 |
| S 8 | 0 53 56 | 11°50'32 | 3♈11 | 8°23 | 29°33 | 6° 6 | 18°45 | 6°13 | 4°42 | 19°27 | 17°59 | 27°37 | 29° 7 | 24°53 | n.a. | S 8 |
| M 9 | 0 57 53 | 12°50'52 | 18°25 | 10° 1 | 0♎49 | 6°44 | 18°58 | 6°19 | 4°40 | 19°25 | 17°58 | 27°31 | 29° 3 | 25° 0 | n.a. | M 9 |
| T 10 | 1 1 49 | 13°51'14 | 3♉27 | 11°38 | 2° 4 | 7°22 | 19°11 | 6°26 | 4°37 | 19°24 | 17°57 | 27°26 | 29° 0 | 25° 6 | n.a. | T 10 |
| W11 | 1 5 46 | 14°51'38 | 18° 9 | 13°16 | 3°19 | 8° 0 | 19°24 | 6°32 | 4°35 | 19°23 | 17°56 | 27°24 | 28°57 | 25°13 | n.a. | W11 |
| T 12 | 1 9 42 | 15°52'04 | 2♊25 | 14°53 | 4°35 | 8°38 | 19°38 | 6°38 | 4°33 | 19°21 | 17°55 | 27°D24 | 28°54 | 25°20 | n.a. | T 12 |
| F 13 | 1 13 39 | 16°52'32 | 16°12 | 16°29 | 5°50 | 9°16 | 19°51 | 6°45 | 4°30 | 19°20 | 17°54 | 27°25 | 28°51 | 25°27 | n.a. | F 13 |
| S 14 | 1 17 36 | 17°53'02 | 29°31 | 18° 6 | 7° 6 | 9°54 | 20° 4 | 6°51 | 4°28 | 19°19 | 17°53 | 27°27 | 28°48 | 25°33 | n.a. | S 14 |
| S 15 | 1 21 32 | 18°53'34 | 12♋26 | 19°42 | 8°21 | 10°32 | 20°18 | 6°57 | 4°25 | 19°17 | 17°52 | 27°28 | 28°44 | 25°40 | n.a. | S 15 |
| M16 | 1 25 29 | 19°54'08 | 24°59 | 21°17 | 9°37 | 11°10 | 20°31 | 7° 3 | 4°23 | 19°16 | 17°51 | 27°R28 | 28°41 | 25°47 | n.a. | M16 |
| T 17 | 1 29 25 | 20°54'44 | 7♌15 | 22°53 | 10°52 | 11°48 | 20°44 | 7° 9 | 4°21 | 19°14 | 17°50 | 27°26 | 28°38 | 25°53 | n.a. | T 17 |
| W18 | 1 33 22 | 21°55'21 | 19°20 | 24°28 | 12° 8 | 12°26 | 20°58 | 7°15 | 4°18 | 19°13 | 17°49 | 27°23 | 28°35 | 26° 0 | n.a. | W18 |
| T 19 | 1 37 18 | 22°56'01 | 1♍16 | 26° 2 | 13°23 | 13° 4 | 21°11 | 7°21 | 4°16 | 19°11 | 17°48 | 27°18 | 28°32 | 26° 7 | n.a. | T 19 |
| F 20 | 1 41 15 | 23°56'42 | 13° 8 | 27°37 | 14°39 | 13°43 | 21°24 | 7°27 | 4°14 | 19°10 | 17°47 | 27°13 | 28°29 | 26°14 | n.a. | F 20 |
| S 21 | 1 45 11 | 24°57'24 | 24°58 | 29°11 | 15°54 | 14°21 | 21°38 | 7°33 | 4°11 | 19° 8 | 17°46 | 27° 6 | 28°25 | 26°20 | n.a. | S 21 |
| S 22 | 1 49 8 | 25°58'09 | 6♎50 | 0♏45 | 17°10 | 14°59 | 21°51 | 7°38 | 4° 9 | 19° 7 | 17°45 | 27° 0 | 28°22 | 26°27 | n.a. | S 22 |
| M23 | 1 53 5 | 26°58'55 | 18°46 | 2°19 | 18°26 | 15°37 | 22° 4 | 7°44 | 4° 7 | 19° 5 | 17°44 | 26°55 | 28°19 | 26°34 | n.a. | M23 |
| T 24 | 1 57 1 | 27°59'42 | 0♏46 | 3°53 | 19°41 | 16°15 | 22°18 | 7°50 | 4° 5 | 19° 4 | 17°43 | 26°51 | 28°16 | 26°40 | n.a. | T 24 |
| W25 | 2 0 58 | 29° 0'31 | 12°53 | 5°26 | 20°57 | 16°53 | 22°31 | 7°55 | 4° 3 | 19° 2 | 17°42 | 26°49 | 28°13 | 26°47 | n.a. | W25 |
| T 26 | 2 4 54 | 0♏ 1'21 | 25° 8 | 7° 0 | 22°12 | 17°31 | 22°44 | 8° 1 | 4° 0 | 19° 0 | 17°41 | 26°D48 | 28° 9 | 26°54 | n.a. | T 26 |
| F 27 | 2 8 51 | 1° 2'13 | 7♐34 | 8°33 | 23°28 | 18° 9 | 22°57 | 8° 6 | 3°58 | 18°59 | 17°40 | 26°48 | 28° 6 | 27° 0 | n.a. | F 27 |
| S 28 | 2 12 47 | 2° 3'06 | 20°11 | 10° 6 | 24°43 | 18°47 | 23°11 | 8°11 | 3°56 | 18°57 | 17°39 | 26°49 | 28° 3 | 27° 7 | n.a. | S 28 |
| S 29 | 2 16 44 | 3° 3'59 | 3♑ 2 | 11°39 | 25°59 | 19°25 | 23°24 | 8°17 | 3°54 | 18°56 | 17°38 | 26°51 | 28° 0 | 27°14 | n.a. | S 29 |
| M30 | 2 20 40 | 4° 4'54 | 16° 9 | 13°12 | 27°15 | 20° 3 | 23°37 | 8°22 | 3°52 | 18°54 | 17°36 | 26°53 | 27°57 | 27°21 | n.a. | M30 |
| T 31 | 2 24 37 | 5♏ 5'50 | 29♑36 | 14♏44 | 28♎30 | 20♍41 | 23♎51 | 8♍27 | 3♈50 | 18♉52 | 17♉35 | 26°R54 | 27♉54 | 27♍27 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| S 1 | 1 s56 | 25 s42 | 2 s11 | 2n41 | 1n31 | 5n 3 | 1n29 | 12n12 | 1n17 | 5 s52 | 1n 2 | 11n27 | 1n59 | 1n22 | 0 s42 | 16n 8 | 1 s45 | 7n32 | 10 s17 | 19n57 | 20n16 | 6n39 | | | n.a. |
| M 2 | 2 20 | 26 44 | 3 10 | 1 56 | 1 26 | 4 33 | 1 28 | 11 58 | 1 17 | 5 57 | 1 2 | 11 25 | 1 59 | 1 21 | 0 42 | 16 8 | 1 45 | 7 31 | 10 17 | 19 58 | 20 15 | 6 36 | | | n.a. |
| T 3 | 2 44 | 26 13 | 4 1 | 1 11 | 1 20 | 4 3 | 1 28 | 11 44 | 1 17 | 6 2 | 1 2 | 11 22 | 1 59 | 1 20 | 0 42 | 16 8 | 1 45 | 7 31 | 10 17 | 19 57 | 20 14 | 6 33 | | | n.a. |
| W 4 | 3 8 | 24 6 | 4 40 | 0 25 | 1 15 | 3 32 | 1 28 | 11 30 | 1 17 | 6 8 | 1 2 | 11 20 | 1 59 | 1 19 | 0 42 | 16 7 | 1 45 | 7 31 | 10 17 | 19 57 | 20 14 | 6 30 | | | n.a. |
| T 5 | 3 32 | 20 24 | 5 3 | 0 s20 | 1 9 | 3 1 | 1 27 | 11 16 | 1 17 | 6 13 | 1 2 | 11 18 | 1 59 | 1 18 | 0 42 | 16 7 | 1 45 | 7 30 | 10 17 | 19 56 | 20 13 | 6 27 | | | n.a. |
| F 6 | 3 56 | 15 20 | 5 6 | 1 5 | 1 3 | 2 31 | 1 27 | 11 2 | 1 17 | 6 18 | 1 2 | 11 15 | 1 59 | 1 17 | 0 42 | 16 7 | 1 45 | 7 30 | 10 17 | 19 54 | 20 12 | 6 24 | | | n.a. |
| S 7 | 4 20 | 9 15 | 4 49 | 1 50 | 0 57 | 2 0 | 1 26 | 10 48 | 1 17 | 6 23 | 1 2 | 11 13 | 1 59 | 1 16 | 0 42 | 16 6 | 1 45 | 7 30 | 10 17 | 19 52 | 20 12 | 6 21 | | | n.a. |
| S 8 | 4 44 | 2 33 | 4 11 | 2 35 | 0 51 | 1 29 | 1 25 | 10 34 | 1 17 | 6 28 | 1 2 | 11 11 | 2 0 | 1 15 | 0 42 | 16 6 | 1 45 | 7 29 | 10 18 | 19 51 | 20 11 | 6 18 | | | n.a. |
| M 9 | 5 8 | 4n18 | 3 15 | 3 20 | 0 44 | 0 58 | 1 25 | 10 20 | 1 17 | 6 33 | 1 2 | 11 9 | 2 0 | 1 14 | 0 42 | 16 5 | 1 45 | 7 29 | 10 18 | 19 49 | 20 10 | 6 15 | | | n.a. |
| T 10 | 5 31 | 10 50 | 2 6 | 4 4 | 0 38 | 0 27 | 1 24 | 10 6 | 1 17 | 6 38 | 1 2 | 11 6 | 2 0 | 1 13 | 0 42 | 16 5 | 1 45 | 7 29 | 10 18 | 19 48 | 20 10 | 6 12 | | | n.a. |
| W11 | 5 55 | 16 38 | 0 50 | 4 49 | 0 32 | 0 s 4 | 1 23 | 9 51 | 1 17 | 6 44 | 1 2 | 11 4 | 2 0 | 1 12 | 0 42 | 16 5 | 1 45 | 7 28 | 10 18 | 19 48 | 20 9 | 6 9 | | | n.a. |
| T 12 | 6 19 | 21 19 | 0n27 | 5 33 | 0 25 | 0 35 | 1 22 | 9 37 | 1 17 | 6 49 | 1 2 | 11 2 | 2 0 | 1 11 | 0 42 | 16 4 | 1 45 | 7 28 | 10 18 | 19 48 | 20 8 | 6 6 | | | n.a. |
| F 13 | 6 42 | 24 39 | 1 40 | 6 16 | 0 18 | 1 6 | 1 21 | 9 22 | 1 17 | 6 54 | 1 2 | 11 0 | 2 0 | 1 10 | 0 42 | 16 4 | 1 45 | 7 28 | 10 18 | 19 48 | 20 7 | 6 3 | | | n.a. |
| S 14 | 7 6 | 26 28 | 2 46 | 6 59 | 0 12 | 1 38 | 1 20 | 9 8 | 1 17 | 6 59 | 1 2 | 10 58 | 2 1 | 1 10 | 0 42 | 16 3 | 1 46 | 7 27 | 10 18 | 19 48 | 20 7 | 6 0 | | | n.a. |
| S 15 | 7 29 | 26 46 | 3 40 | 7 42 | 0 5 | 2 9 | 1 19 | 8 53 | 1 17 | 7 4 | 1 2 | 10 55 | 2 1 | 1 9 | 0 41 | 16 3 | 1 46 | 7 27 | 10 18 | 19 49 | 20 6 | 5 57 | | | n.a. |
| M16 | 7 52 | 25 41 | 4 23 | 8 25 | 0 s 1 | 2 40 | 1 18 | 8 39 | 1 17 | 7 9 | 1 1 | 10 53 | 2 1 | 1 8 | 0 41 | 16 3 | 1 46 | 7 27 | 10 18 | 19 49 | 20 5 | 5 54 | | | n.a. |
| T 17 | 8 15 | 23 22 | 4 52 | 9 7 | 0 8 | 3 11 | 1 16 | 8 24 | 1 17 | 7 14 | 1 1 | 10 51 | 2 1 | 1 7 | 0 41 | 16 2 | 1 46 | 7 26 | 10 18 | 19 48 | 20 5 | 5 51 | | | n.a. |
| W18 | 8 38 | 20 3 | 5 8 | 9 48 | 0 14 | 3 42 | 1 15 | 8 9 | 1 17 | 7 19 | 1 1 | 10 49 | 2 1 | 1 6 | 0 41 | 16 2 | 1 46 | 7 26 | 10 18 | 19 48 | 20 4 | 5 47 | | | n.a. |
| T 19 | 9 1 | 15 58 | 5 10 | 10 29 | 0 21 | 4 13 | 1 14 | 7 55 | 1 17 | 7 24 | 1 1 | 10 47 | 2 2 | 1 5 | 0 41 | 16 1 | 1 46 | 7 26 | 10 18 | 19 47 | 20 3 | 5 44 | | | n.a. |
| F 20 | 9 23 | 11 18 | 4 59 | 11 10 | 0 27 | 4 43 | 1 12 | 7 40 | 1 18 | 7 30 | 1 1 | 10 45 | 2 2 | 1 4 | 0 41 | 16 1 | 1 46 | 7 25 | 10 18 | 19 45 | 20 3 | 5 41 | | | n.a. |
| S 21 | 9 46 | 6 13 | 4 35 | 11 50 | 0 34 | 5 14 | 1 11 | 7 25 | 1 18 | 7 35 | 1 1 | 10 43 | 2 2 | 1 3 | 0 41 | 16 1 | 1 46 | 7 25 | 10 19 | 19 44 | 20 2 | 5 38 | | | n.a. |
| S 22 | 10 8 | 0 55 | 4 0 | 12 29 | 0 40 | 5 45 | 1 9 | 7 10 | 1 18 | 7 40 | 1 1 | 10 41 | 2 2 | 1 2 | 0 41 | 16 0 | 1 46 | 7 25 | 10 19 | 19 42 | 20 1 | 5 35 | | | n.a. |
| M23 | 10 31 | 4 s27 | 3 13 | 13 8 | 0 46 | 6 15 | 1 8 | 6 55 | 1 18 | 7 45 | 1 1 | 10 39 | 2 2 | 1 1 | 0 41 | 16 0 | 1 46 | 7 24 | 10 19 | 19 41 | 20 0 | 5 32 | | | n.a. |
| T 24 | 10 53 | 9 43 | 2 18 | 13 46 | 0 53 | 6 46 | 1 6 | 6 40 | 1 18 | 7 50 | 1 1 | 10 37 | 2 2 | 1 0 | 0 41 | 15 59 | 1 46 | 7 24 | 10 19 | 19 40 | 20 0 | 5 29 | | | n.a. |
| W25 | 11 15 | 14 41 | 1 16 | 14 24 | 0 59 | 7 16 | 1 5 | 6 25 | 1 18 | 7 55 | 1 1 | 10 35 | 2 3 | 1 0 | 0 41 | 15 59 | 1 46 | 7 24 | 10 19 | 19 40 | 19 59 | 5 26 | | | n.a. |
| T 26 | 11 36 | 19 7 | 0 9 | 15 1 | 1 5 | 7 46 | 1 3 | 6 10 | 1 18 | 8 0 | 1 1 | 10 33 | 2 3 | 0 59 | 0 41 | 15 58 | 1 46 | 7 23 | 10 19 | 19 39 | 19 58 | 5 23 | | | n.a. |
| F 27 | 11 58 | 22 47 | 0 s59 | 15 37 | 1 10 | 8 16 | 1 1 | 5 55 | 1 18 | 8 5 | 1 1 | 10 31 | 2 3 | 0 58 | 0 41 | 15 58 | 1 46 | 7 23 | 10 19 | 19 40 | 19 58 | 5 20 | | | n.a. |
| S 28 | 12 19 | 25 25 | 2 5 | 16 13 | 1 16 | 8 46 | 1 0 | 5 40 | 1 18 | 8 10 | 1 1 | 10 30 | 2 3 | 0 57 | 0 41 | 15 57 | 1 46 | 7 23 | 10 19 | 19 40 | 19 57 | 5 17 | | | n.a. |
| S 29 | 12 40 | 26 47 | 3 6 | 16 47 | 1 22 | 9 15 | 0 58 | 5 25 | 1 18 | 8 15 | 1 1 | 10 28 | 2 4 | 0 56 | 0 41 | 15 57 | 1 46 | 7 22 | 10 19 | 19 40 | 19 56 | 5 14 | | | n.a. |
| M30 | 13 1 | 26 40 | 3 59 | 17 21 | 1 27 | 9 44 | 0 56 | 5 10 | 1 18 | 8 20 | 1 1 | 10 26 | 2 4 | 0 56 | 0 41 | 15 56 | 1 46 | 7 22 | 10 19 | 19 41 | 19 55 | 5 10 | | | n.a. |
| T 31 | 13 s22 | 25 s 2 | 4 s40 | 17 s54 | 1 s32 | 10 s13 | 0n54 | 4n55 | 1n18 | 8 s25 | 1n 1 | 10n24 | 2n 4 | 0n55 | 0 s41 | 15n56 | 1 s46 | 7n22 | 10 s19 | 19n41 | 19n55 | 5n 7 | | | n.a. |

Julian Day Number = 1691380.5, Delta T = 03h10m18s
Ecliptic obliquity = 23°42'23, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°12'01, Lahiri = - 5°05'00 Julian Calendar 1 Oct. 83 BCE == Greg. Calendar 29 Sept. 083 BCE

The year -82 astronomical counting style corresponds to year 083 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 83 BCE
# geocentric

## NOVEMBER 83 BCE (-82) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 2 28 34 | 6♏ 6'47 | 13♒23 | 16♏17 | 29♎46 | 21♍19 | 24♎ 4 | 8♍32 | 3°R48 | 18°R51 | 17°R34 | 26°R53 | 27♉50 | 27♍34 | n.a. | W 1 |
| T 2 | 2 32 30 | 7° 7'44 | 27°31 | 17°49 | 1♏ 1 | 21°57 | 24°17 | 8°37 | 3♈46 | 18♉49 | 17♉33 | 26♉52 | 27°47 | 27°41 | n.a. | T 2 |
| F 3 | 2 36 27 | 8° 8'42 | 11♓58 | 19°22 | 2°17 | 22°35 | 24°30 | 8°42 | 3°44 | 18°47 | 17°32 | 26°51 | 27°44 | 27°47 | n.a. | F 3 |
| S 4 | 2 40 23 | 9° 9'41 | 26°41 | 20°54 | 3°33 | 23°13 | 24°43 | 8°47 | 3°42 | 18°46 | 17°31 | 26°48 | 27°41 | 27°54 | n.a. | S 4 |
| S 5 | 2 44 20 | 10°10'41 | 11♈35 | 22°26 | 4°48 | 23°51 | 24°56 | 8°51 | 3°40 | 18°44 | 17°30 | 26°46 | 27°38 | 28° 1 | n.a. | S 5 |
| M 6 | 2 48 16 | 11°11'41 | 26°31 | 23°58 | 6° 4 | 24°29 | 25° 9 | 8°56 | 3°39 | 18°42 | 17°28 | 26°44 | 27°35 | 28° 7 | n.a. | M 6 |
| T 7 | 2 52 13 | 12°12'43 | 11♉21 | 25°29 | 7°19 | 25° 7 | 25°23 | 9° 1 | 3°37 | 18°41 | 17°27 | 26°43 | 27°31 | 28°14 | n.a. | T 7 |
| W 8 | 2 56 9 | 13°13'46 | 25°57 | 27° 0 | 8°35 | 25°45 | 25°36 | 9° 5 | 3°35 | 18°39 | 17°26 | 26°D42 | 27°28 | 28°21 | n.a. | W 8 |
| T 9 | 3 0 6 | 14°14'49 | 10♊14 | 28°32 | 9°51 | 26°23 | 25°49 | 9°10 | 3°33 | 18°37 | 17°25 | 26°43 | 27°25 | 28°28 | n.a. | T 9 |
| F 10 | 3 4 3 | 15°15'54 | 24° 6 | 0♐ 2 | 11° 6 | 27° 1 | 26° 2 | 9°14 | 3°32 | 18°36 | 17°24 | 26°43 | 27°22 | 28°34 | n.a. | F 10 |
| S 11 | 3 7 59 | 16°17'00 | 7♋33 | 1°33 | 12°22 | 27°39 | 26°15 | 9°18 | 3°30 | 18°34 | 17°23 | 26°44 | 27°19 | 28°41 | n.a. | S 11 |
| S 12 | 3 11 56 | 17°18'06 | 20°35 | 3° 2 | 13°37 | 28°17 | 26°27 | 9°22 | 3°28 | 18°32 | 17°22 | 26°45 | 27°15 | 28°48 | n.a. | S 12 |
| M13 | 3 15 52 | 18°19'14 | 3♌14 | 4°32 | 14°53 | 28°55 | 26°40 | 9°27 | 3°27 | 18°30 | 17°20 | 26°46 | 27°12 | 28°54 | n.a. | M13 |
| T 14 | 3 19 49 | 19°20'23 | 15°35 | 6° 0 | 16° 8 | 29°33 | 26°53 | 9°31 | 3°25 | 18°29 | 17°19 | 26°R46 | 27° 9 | 29° 1 | n.a. | T 14 |
| W15 | 3 23 45 | 20°21'33 | 27°41 | 7°28 | 17°24 | 0♎11 | 27° 6 | 9°34 | 3°24 | 18°27 | 17°18 | 26°46 | 27° 6 | 29° 8 | n.a. | W15 |
| T 16 | 3 27 42 | 21°22'43 | 9♍38 | 8°55 | 18°40 | 0°49 | 27°19 | 9°38 | 3°22 | 18°25 | 17°17 | 26°46 | 27° 3 | 29°15 | n.a. | T 16 |
| F 17 | 3 31 38 | 22°23'54 | 21°29 | 10°20 | 19°55 | 1°27 | 27°32 | 9°42 | 3°21 | 18°24 | 17°16 | 26°46 | 27° 0 | 29°21 | n.a. | F 17 |
| S 18 | 3 35 35 | 23°25'07 | 3♎20 | 11°45 | 21°11 | 2° 5 | 27°44 | 9°46 | 3°20 | 18°22 | 17°15 | 26°45 | 26°56 | 29°28 | n.a. | S 18 |
| S 19 | 3 39 32 | 24°26'20 | 15°13 | 13° 7 | 22°26 | 2°43 | 27°57 | 9°49 | 3°18 | 18°20 | 17°13 | 26°45 | 26°53 | 29°35 | n.a. | S 19 |
| M20 | 3 43 28 | 25°27'33 | 27°13 | 14°28 | 23°42 | 3°21 | 28°10 | 9°53 | 3°17 | 18°19 | 17°12 | 26°44 | 26°50 | 29°41 | n.a. | M20 |
| T 21 | 3 47 25 | 26°28'47 | 9♏22 | 15°46 | 24°58 | 3°59 | 28°22 | 9°56 | 3°16 | 18°17 | 17°11 | 26°D44 | 26°47 | 29°48 | n.a. | T 21 |
| W22 | 3 51 21 | 27°30'02 | 21°42 | 17° 2 | 26°13 | 4°37 | 28°35 | 9°59 | 3°15 | 18°15 | 17°10 | 26°R44 | 26°44 | 29°55 | n.a. | W22 |
| T 23 | 3 55 18 | 28°31'17 | 4♐14 | 18°14 | 27°29 | 5°15 | 28°47 | 10° 3 | 3°14 | 18°14 | 17° 9 | 26°44 | 26°41 | 0♎ 1 | n.a. | T 23 |
| F 24 | 3 59 14 | 29°32'33 | 16°58 | 19°23 | 28°44 | 5°53 | 29° 0 | 10° 6 | 3°13 | 18°12 | 17° 8 | 26°44 | 26°37 | 0° 8 | n.a. | F 24 |
| S 25 | 4 3 11 | 0♐33'49 | 29°57 | 20°27 | 29°59 | 6°31 | 29°12 | 10° 9 | 3°12 | 18°10 | 17° 7 | 26°44 | 26°34 | 0°15 | n.a. | S 25 |
| S 26 | 4 7 7 | 1°35'05 | 13♑ 8 | 21°27 | 1♐15 | 7° 9 | 29°24 | 10°12 | 3°11 | 18° 9 | 17° 5 | 26°43 | 26°31 | 0°22 | n.a. | S 26 |
| M27 | 4 11 4 | 2°36'21 | 26°33 | 22°21 | 2°31 | 7°47 | 29°37 | 10°14 | 3°10 | 18° 7 | 17° 4 | 26°43 | 26°28 | 0°28 | n.a. | M27 |
| T 28 | 4 15 1 | 3°37'36 | 10♒11 | 23° 8 | 3°46 | 8°24 | 29°49 | 10°17 | 3° 9 | 18° 5 | 17° 3 | 26°42 | 26°25 | 0°35 | n.a. | T 28 |
| W29 | 4 18 57 | 4°38'52 | 24° 1 | 23°48 | 5° 2 | 9° 2 | 0♏ 1 | 10°20 | 3° 8 | 18° 4 | 17° 2 | 26°41 | 26°21 | 0°42 | n.a. | W29 |
| T 30 | 4 22 54 | 5♐40'08 | 8♓ 2 | 24♐19 | 6♐18 | 9♎40 | 0♏13 | 10♍22 | 3♈ 7 | 18♉ 2 | 17♉ 1 | 26°D41 | 26♉18 | 0♎48 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 13 s42 | 21 s53 | 5 s 7 | 18 s27 | 1 s37 | 10 s42 | 0n52 | 4n40 | 1n18 | 8 s30 | 1n 1 | 10n23 | 2n 4 | 0n54 | 0 s41 | 15n56 | 1 s46 | 7n21 | 10 s19 | 19n41 | 19n54 | 5n 4 | | n.a. |
| T 2 | 14 3 | 17 24 | 5 15 | 18 58 | 1 42 | 11 11 | 0 50 | 4 25 | 1 18 | 8 34 | 1 1 | 10 21 | 2 4 | 0 53 | 0 41 | 15 55 | 1 46 | 7 21 | 10 19 | 19 41 | 19 53 | 5 1 | | n.a. |
| F 3 | 14 23 | 11 50 | 5 5 | 19 28 | 1 47 | 11 39 | 0 48 | 4 9 | 1 17 | 8 39 | 1 1 | 10 19 | 2 5 | 0 52 | 0 41 | 15 55 | 1 46 | 7 21 | 10 19 | 19 40 | 19 52 | 4 58 | | n.a. |
| S 4 | 14 43 | 5 30 | 4 34 | 19 58 | 1 51 | 12 7 | 0 46 | 3 54 | 1 17 | 8 44 | 1 1 | 10 18 | 2 5 | 0 52 | 0 41 | 15 54 | 1 46 | 7 20 | 10 19 | 19 40 | 19 52 | 4 55 | | n.a. |
| S 5 | 15 2 | 1n12 | 3 44 | 20 26 | 1 55 | 12 35 | 0 44 | 3 39 | 1 17 | 8 49 | 1 1 | 10 16 | 2 5 | 0 51 | 0 41 | 15 54 | 1 46 | 7 20 | 10 19 | 19 39 | 19 51 | 4 52 | | n.a. |
| M 6 | 15 21 | 7 52 | 2 39 | 20 53 | 1 59 | 13 2 | 0 42 | 3 24 | 1 17 | 8 54 | 1 1 | 10 14 | 2 5 | 0 50 | 0 41 | 15 53 | 1 46 | 7 20 | 10 19 | 19 39 | 19 50 | 4 49 | | n.a. |
| T 7 | 15 40 | 14 4 | 1 24 | 21 20 | 2 2 | 13 29 | 0 40 | 3 8 | 1 17 | 8 59 | 1 1 | 10 13 | 2 6 | 0 50 | 0 41 | 15 53 | 1 46 | 7 20 | 10 19 | 19 38 | 19 50 | 4 46 | | n.a. |
| W 8 | 15 59 | 19 23 | 0 4 | 21 45 | 2 6 | 13 56 | 0 38 | 2 53 | 1 17 | 9 4 | 1 1 | 10 11 | 2 6 | 0 49 | 0 41 | 15 52 | 1 46 | 7 19 | 10 19 | 19 38 | 19 49 | 4 43 | | n.a. |
| T 9 | 16 18 | 23 27 | 1n14 | 22 8 | 2 8 | 14 22 | 0 35 | 2 38 | 1 17 | 9 8 | 1 1 | 10 10 | 2 6 | 0 48 | 0 41 | 15 52 | 1 46 | 7 19 | 10 19 | 19 38 | 19 48 | 4 39 | | n.a. |
| F 10 | 16 36 | 26 0 | 2 26 | 22 31 | 2 11 | 14 48 | 0 33 | 2 23 | 1 17 | 9 13 | 1 1 | 10 9 | 2 6 | 0 48 | 0 41 | 15 51 | 1 46 | 7 19 | 10 19 | 19 38 | 19 47 | 4 36 | | n.a. |
| S 11 | 16 54 | 26 56 | 3 27 | 22 52 | 2 13 | 15 14 | 0 31 | 2 7 | 1 17 | 9 18 | 1 1 | 10 7 | 2 7 | 0 47 | 0 41 | 15 51 | 1 46 | 7 18 | 10 19 | 19 39 | 19 47 | 4 33 | | n.a. |
| S 12 | 17 11 | 26 20 | 4 16 | 23 12 | 2 15 | 15 39 | 0 29 | 1 52 | 1 17 | 9 23 | 1 1 | 10 6 | 2 7 | 0 46 | 0 41 | 15 50 | 1 46 | 7 18 | 10 19 | 19 39 | 19 46 | 4 30 | | n.a. |
| M13 | 17 28 | 24 21 | 4 51 | 23 31 | 2 16 | 16 4 | 0 26 | 1 37 | 1 17 | 9 27 | 1 1 | 10 4 | 2 7 | 0 46 | 0 41 | 15 50 | 1 46 | 7 18 | 10 19 | 19 39 | 19 45 | 4 27 | | n.a. |
| T 14 | 17 45 | 21 17 | 5 11 | 23 48 | 2 17 | 16 28 | 0 24 | 1 21 | 1 17 | 9 32 | 1 1 | 10 3 | 2 7 | 0 45 | 0 41 | 15 50 | 1 46 | 7 18 | 10 19 | 19 39 | 19 44 | 4 24 | | n.a. |
| W15 | 18 2 | 17 21 | 5 17 | 24 3 | 2 17 | 16 52 | 0 22 | 1 6 | 1 17 | 9 37 | 1 1 | 10 2 | 2 7 | 0 45 | 0 41 | 15 49 | 1 46 | 7 17 | 10 18 | 19 39 | 19 44 | 4 21 | | n.a. |
| T 16 | 18 18 | 12 48 | 5 9 | 24 17 | 2 17 | 17 15 | 0 20 | 0 51 | 1 17 | 9 41 | 1 1 | 10 1 | 2 8 | 0 44 | 0 41 | 15 49 | 1 46 | 7 17 | 10 18 | 19 39 | 19 43 | 4 18 | | n.a. |
| F 17 | 18 34 | 7 49 | 4 48 | 24 30 | 2 16 | 17 38 | 0 17 | 0 35 | 1 17 | 9 46 | 1 1 | 9 59 | 2 8 | 0 44 | 0 41 | 15 48 | 1 46 | 7 17 | 10 18 | 19 39 | 19 42 | 4 14 | | n.a. |
| S 18 | 18 50 | 2 33 | 4 15 | 24 41 | 2 15 | 18 1 | 0 15 | 0 20 | 1 17 | 9 50 | 1 1 | 9 58 | 2 8 | 0 43 | 0 41 | 15 48 | 1 46 | 7 17 | 10 18 | 19 39 | 19 41 | 4 11 | | n.a. |
| S 19 | 19 5 | 2 s50 | 3 31 | 24 49 | 2 13 | 18 23 | 0 13 | 0 5 | 1 17 | 9 55 | 1 1 | 9 57 | 2 9 | 0 43 | 0 41 | 15 47 | 1 46 | 7 16 | 10 18 | 19 39 | 19 41 | 4 8 | | n.a. |
| M20 | 19 20 | 8 10 | 2 37 | 24 57 | 2 10 | 18 45 | 0 10 | 0 s11 | 1 17 | 9 59 | 1 1 | 9 56 | 2 9 | 0 42 | 0 41 | 15 47 | 1 46 | 7 16 | 10 18 | 19 39 | 19 40 | 4 5 | | n.a. |
| T 21 | 19 35 | 13 16 | 1 35 | 25 2 | 2 6 | 19 6 | 0 8 | 0 26 | 1 16 | 10 4 | 1 1 | 9 55 | 2 9 | 0 42 | 0 41 | 15 46 | 1 46 | 7 16 | 10 18 | 19 39 | 19 39 | 4 2 | | n.a. |
| W22 | 19 49 | 17 56 | 0 28 | 25 5 | 2 2 | 19 26 | 0 5 | 0 41 | 1 16 | 10 8 | 1 1 | 9 54 | 2 9 | 0 41 | 0 41 | 15 46 | 1 46 | 7 16 | 10 18 | 19 39 | 19 39 | 3 59 | | n.a. |
| T 23 | 20 3 | 21 54 | 0 s41 | 25 7 | 1 57 | 19 46 | 0 3 | 0 57 | 1 16 | 10 13 | 1 1 | 9 53 | 2 10 | 0 41 | 0 40 | 15 45 | 1 46 | 7 15 | 10 18 | 19 39 | 19 38 | 3 56 | | n.a. |
| F 24 | 20 17 | 24 53 | 1 50 | 25 7 | 1 50 | 20 5 | 0 1 | 1 12 | 1 16 | 10 17 | 1 1 | 9 52 | 2 10 | 0 40 | 0 40 | 15 45 | 1 46 | 7 15 | 10 18 | 19 39 | 19 37 | 3 53 | | n.a. |
| S 25 | 20 30 | 26 36 | 2 54 | 25 4 | 1 43 | 20 24 | 0 s 2 | 1 27 | 1 16 | 10 22 | 1 1 | 9 51 | 2 10 | 0 40 | 0 40 | 15 44 | 1 46 | 7 15 | 10 18 | 19 39 | 19 36 | 3 49 | | n.a. |
| S 26 | 20 42 | 26 52 | 3 50 | 25 0 | 1 34 | 20 42 | 0 4 | 1 42 | 1 16 | 10 26 | 1 1 | 9 50 | 2 10 | 0 40 | 0 40 | 15 44 | 1 46 | 7 15 | 10 18 | 19 38 | 19 36 | 3 46 | | n.a. |
| M27 | 20 55 | 25 34 | 4 34 | 24 54 | 1 25 | 21 0 | 0 6 | 1 58 | 1 16 | 10 30 | 1 1 | 9 49 | 2 11 | 0 39 | 0 40 | 15 44 | 1 46 | 7 14 | 10 18 | 19 38 | 19 35 | 3 43 | | n.a. |
| T 28 | 21 7 | 22 45 | 5 4 | 24 46 | 1 14 | 21 17 | 0 9 | 2 13 | 1 16 | 10 35 | 1 1 | 9 49 | 2 11 | 0 39 | 0 40 | 15 43 | 1 46 | 7 14 | 10 17 | 19 38 | 19 34 | 3 40 | | n.a. |
| W29 | 21 18 | 18 38 | 5 17 | 24 35 | 1 2 | 21 34 | 0 11 | 2 28 | 1 15 | 10 39 | 1 1 | 9 48 | 2 11 | 0 39 | 0 40 | 15 43 | 1 46 | 7 14 | 10 17 | 19 38 | 19 33 | 3 37 | | n.a. |
| T 30 | 21 s29 | 13 s26 | 5 s11 | 24 s24 | 0 s49 | 21 s49 | 0 s14 | 2 s43 | 1n15 | 10 s43 | 1n 1 | 9n47 | 2n11 | 0n38 | 0 s40 | 15n42 | 1 s46 | 7n14 | 10 s17 | 19n38 | 19n33 | 3n34 | | n.a. |

Julian Day Number = 1691411.5, Delta T = 03h10m17s
Ecliptic obliquity = 23°42'23, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°11'56, Lahiri = - 5°04'56 Julian Calendar 1 Nov. 83 BCE == Greg. Calendar 30 Oct. 083 BCE


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# ASTRODIENST EPHEMERIS for the year 83 BCE
# geocentric

## DECEMBER 83 BCE (-82) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 4 26 50 | 6♐41'23 | 22♓14 | 24♐42 | 7♐33 | 10♎18 | 0♏25 | 10♍25 | 3°R 6 | 18°R 0 | 17°R 0 | 26♉42 | 26♉15 | 0♎55 | n.a. | F 1 |
| S 2 | 4 30 47 | 7°42'38 | 6♈34 | 24°54 | 8°49 | 10°56 | 0°37 | 10°27 | 3♈ 6 | 17♉59 | 16♉59 | 26°42 | 26°12 | 1° 2 | n.a. | S 2 |
| S 3 | 4 34 43 | 8°43'52 | 20°59 | 24°R56 | 10° 4 | 11°34 | 0°49 | 10°29 | 3° 5 | 17°57 | 16°58 | 26°43 | 26° 9 | 1° 8 | n.a. | S 3 |
| M 4 | 4 38 40 | 9°45'06 | 5♉25 | 24°46 | 11°19 | 12°11 | 1° 1 | 10°31 | 3° 4 | 17°56 | 16°57 | 26°44 | 26° 6 | 1°15 | n.a. | M 4 |
| T 5 | 4 42 37 | 10°46'20 | 19°49 | 24°24 | 12°35 | 12°49 | 1°12 | 10°33 | 3° 4 | 17°54 | 16°56 | 26°R45 | 26° 2 | 1°22 | n.a. | T 5 |
| W 6 | 4 46 33 | 11°47'34 | 4♊ 4 | 23°50 | 13°50 | 13°27 | 1°24 | 10°35 | 3° 3 | 17°53 | 16°55 | 26°45 | 25°59 | 1°29 | n.a. | W 6 |
| T 7 | 4 50 30 | 12°48'48 | 18° 5 | 23° 5 | 15° 6 | 14° 5 | 1°36 | 10°37 | 3° 3 | 17°51 | 16°54 | 26°44 | 25°56 | 1°35 | n.a. | T 7 |
| F 8 | 4 54 26 | 13°50'01 | 1♋50 | 22° 9 | 16°21 | 14°43 | 1°47 | 10°39 | 3° 3 | 17°50 | 16°53 | 26°42 | 25°53 | 1°42 | n.a. | F 8 |
| S 9 | 4 58 23 | 14°51'15 | 15°15 | 21° 5 | 17°37 | 15°20 | 1°59 | 10°40 | 3° 2 | 17°48 | 16°52 | 26°40 | 25°50 | 1°49 | n.a. | S 9 |
| S 10 | 5 2 19 | 15°52'28 | 28°18 | 19°53 | 18°52 | 15°58 | 2°10 | 10°42 | 3° 2 | 17°47 | 16°51 | 26°37 | 25°47 | 1°55 | n.a. | S 10 |
| M11 | 5 6 16 | 16°53'41 | 11♌ 1 | 18°35 | 20° 8 | 16°36 | 2°22 | 10°43 | 3° 2 | 17°45 | 16°50 | 26°34 | 25°43 | 2° 2 | n.a. | M11 |
| T 12 | 5 10 12 | 17°54'54 | 23°26 | 17°16 | 21°23 | 17°13 | 2°33 | 10°44 | 3° 2 | 17°44 | 16°49 | 26°31 | 25°40 | 2° 9 | n.a. | T 12 |
| W13 | 5 14 9 | 18°56'06 | 5♍35 | 15°56 | 22°38 | 17°51 | 2°44 | 10°46 | 3° 2 | 17°42 | 16°48 | 26°29 | 25°37 | 2°15 | n.a. | W13 |
| T 14 | 5 18 6 | 19°57'19 | 17°33 | 14°39 | 23°54 | 18°29 | 2°55 | 10°47 | 3° 1 | 17°41 | 16°47 | 26°D29 | 25°34 | 2°22 | n.a. | T 14 |
| F 15 | 5 22 2 | 20°58'31 | 29°25 | 13°26 | 25° 9 | 19° 6 | 3° 6 | 10°48 | 3°D 1 | 17°40 | 16°46 | 26°29 | 25°31 | 2°29 | n.a. | F 15 |
| S 16 | 5 25 59 | 21°59'42 | 11♎16 | 12°21 | 26°25 | 19°44 | 3°17 | 10°49 | 3° 1 | 17°38 | 16°45 | 26°30 | 25°27 | 2°36 | n.a. | S 16 |
| S 17 | 5 29 55 | 23° 0'54 | 23°10 | 11°23 | 27°40 | 20°22 | 3°28 | 10°49 | 3° 2 | 17°37 | 16°44 | 26°32 | 25°24 | 2°42 | n.a. | S 17 |
| M18 | 5 33 52 | 24° 2'05 | 5♏12 | 10°33 | 28°55 | 20°59 | 3°39 | 10°50 | 3° 2 | 17°36 | 16°43 | 26°34 | 25°21 | 2°49 | n.a. | M18 |
| T 19 | 5 37 48 | 25° 3'16 | 17°27 | 9°54 | 0♑11 | 21°37 | 3°49 | 10°50 | 3° 2 | 17°34 | 16°42 | 26°35 | 25°18 | 2°56 | n.a. | T 19 |
| W20 | 5 41 45 | 26° 4'26 | 29°56 | 9°23 | 1°26 | 22°15 | 4° 0 | 10°51 | 3° 2 | 17°33 | 16°41 | 26°R35 | 25°15 | 3° 2 | n.a. | W20 |
| T 21 | 5 45 41 | 27° 5'36 | 12♐44 | 9° 3 | 2°41 | 22°52 | 4°10 | 10°51 | 3° 2 | 17°32 | 16°40 | 26°34 | 25°12 | 3° 9 | n.a. | T 21 |
| F 22 | 5 49 38 | 28° 6'45 | 25°49 | 8°51 | 3°57 | 23°30 | 4°21 | 10°51 | 3° 3 | 17°31 | 16°39 | 26°31 | 25° 8 | 3°16 | n.a. | F 22 |
| S 23 | 5 53 35 | 29° 7'53 | 9♑13 | 8°D48 | 5°12 | 24° 7 | 4°31 | 10°R51 | 3° 3 | 17°29 | 16°39 | 26°27 | 25° 5 | 3°22 | n.a. | S 23 |
| S 24 | 5 57 31 | 0♑ 9'01 | 22°52 | 8°53 | 6°27 | 24°45 | 4°41 | 10°51 | 3° 4 | 17°28 | 16°38 | 26°22 | 25° 2 | 3°29 | n.a. | S 24 |
| M25 | 6 1 28 | 1°10'07 | 6♒44 | 9° 6 | 7°43 | 25°22 | 4°51 | 10°51 | 3° 4 | 17°27 | 16°37 | 26°16 | 24°59 | 3°36 | n.a. | M25 |
| T 26 | 6 5 24 | 2°11'12 | 20°46 | 9°25 | 8°58 | 26° 0 | 5° 1 | 10°51 | 3° 5 | 17°26 | 16°36 | 26°10 | 24°56 | 3°42 | n.a. | T 26 |
| W27 | 6 9 21 | 3°12'16 | 4♓53 | 9°51 | 10°13 | 26°37 | 5°11 | 10°51 | 3° 5 | 17°25 | 16°36 | 26° 6 | 24°53 | 3°49 | n.a. | W27 |
| T 28 | 6 13 17 | 4°13'19 | 19° 2 | 10°23 | 11°28 | 27°14 | 5°21 | 10°50 | 3° 6 | 17°24 | 16°35 | 26° 3 | 24°49 | 3°56 | n.a. | T 28 |
| F 29 | 6 17 14 | 5°14'20 | 3♈12 | 10°59 | 12°44 | 27°52 | 5°30 | 10°50 | 3° 7 | 17°23 | 16°34 | 26°D 2 | 24°46 | 4° 3 | n.a. | F 29 |
| S 30 | 6 21 11 | 6°15'20 | 17°20 | 11°41 | 13°59 | 28°29 | 5°40 | 10°49 | 3° 7 | 17°22 | 16°33 | 26° 3 | 24°43 | 4° 9 | n.a. | S 30 |
| S 31 | 6 25 7 | 7♑16'19 | 1♉24 | 12♐27 | 15♑14 | 29♎ 6 | 5♏49 | 10♍48 | 3♈ 8 | 17♉21 | 16♉33 | 26♉ 4 | 24♉40 | 4♎16 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 21 s40 | 7 s29 | 4 s46 | 24 s10 | 0 s34 | 22 s 4 | 0 s16 | 2 s58 | 1 n15 | 10 s47 | 1 n 1 | 9 n46 | 2 n12 | 0 n38 | 0 s40 | 15 n42 | 1 s46 | 7 n14 | 10 s17 | 19 n38 | 19 n32 | 3 n31 | | n.a. |
| S 2 | 21 50 | 1 5 | 4 4 | 23 55 | 0 18 | 22 19 | 0 18 | 3 13 | 1 15 | 10 52 | 1 1 | 9 46 | 2 12 | 0 38 | 0 40 | 15 41 | 1 46 | 7 14 | 10 17 | 19 38 | 19 31 | 3 27 | | n.a. |
| S 3 | 22 0 | 5 n25 | 3 5 | 23 38 | 0 1 | 22 33 | 0 21 | 3 29 | 1 15 | 10 56 | 1 1 | 9 45 | 2 12 | 0 38 | 0 40 | 15 41 | 1 45 | 7 13 | 10 17 | 19 38 | 19 30 | 3 24 | | n.a. |
| M 4 | 22 10 | 11 40 | 1 55 | 23 19 | 0 n17 | 22 46 | 0 23 | 3 44 | 1 15 | 11 0 | 1 1 | 9 45 | 2 13 | 0 37 | 0 40 | 15 41 | 1 45 | 7 13 | 10 17 | 19 39 | 19 30 | 3 21 | | n.a. |
| T 5 | 22 19 | 17 16 | 0 38 | 22 59 | 0 36 | 22 58 | 0 25 | 3 59 | 1 15 | 11 4 | 1 1 | 9 44 | 2 13 | 0 37 | 0 40 | 15 40 | 1 45 | 7 13 | 10 17 | 19 39 | 19 29 | 3 18 | | n.a. |
| W 6 | 22 27 | 21 51 | 0 n40 | 22 38 | 0 55 | 23 10 | 0 27 | 4 14 | 1 14 | 11 8 | 1 1 | 9 44 | 2 13 | 0 37 | 0 40 | 15 40 | 1 45 | 7 13 | 10 16 | 19 39 | 19 28 | 3 15 | | n.a. |
| T 7 | 22 35 | 25 5 | 1 55 | 22 16 | 1 15 | 23 21 | 0 30 | 4 29 | 1 14 | 11 12 | 1 1 | 9 43 | 2 13 | 0 37 | 0 40 | 15 39 | 1 45 | 7 13 | 10 16 | 19 39 | 19 27 | 3 12 | | n.a. |
| F 8 | 22 43 | 26 43 | 3 2 | 21 54 | 1 35 | 23 32 | 0 32 | 4 43 | 1 14 | 11 16 | 1 2 | 9 43 | 2 14 | 0 37 | 0 40 | 15 39 | 1 45 | 7 13 | 10 16 | 19 38 | 19 26 | 3 8 | | n.a. |
| S 9 | 22 50 | 26 45 | 3 57 | 21 30 | 1 54 | 23 41 | 0 34 | 4 58 | 1 14 | 11 20 | 1 2 | 9 43 | 2 14 | 0 37 | 0 40 | 15 39 | 1 45 | 7 12 | 10 16 | 19 38 | 19 26 | 3 5 | | n.a. |
| S 10 | 22 57 | 25 15 | 4 38 | 21 7 | 2 12 | 23 50 | 0 36 | 5 13 | 1 14 | 11 24 | 1 2 | 9 42 | 2 14 | 0 37 | 0 40 | 15 38 | 1 45 | 7 12 | 10 16 | 19 37 | 19 25 | 3 2 | | n.a. |
| M11 | 23 3 | 22 31 | 5 3 | 20 44 | 2 29 | 23 58 | 0 38 | 5 28 | 1 13 | 11 28 | 1 2 | 9 42 | 2 15 | 0 37 | 0 40 | 15 38 | 1 45 | 7 12 | 10 16 | 19 36 | 19 24 | 2 59 | | n.a. |
| T 12 | 23 9 | 18 48 | 5 14 | 20 23 | 2 44 | 24 6 | 0 41 | 5 43 | 1 13 | 11 32 | 1 2 | 9 42 | 2 15 | 0 37 | 0 40 | 15 38 | 1 45 | 7 12 | 10 16 | 19 36 | 19 23 | 2 56 | | n.a. |
| W13 | 23 14 | 14 22 | 5 11 | 20 2 | 2 56 | 24 13 | 0 43 | 5 57 | 1 13 | 11 35 | 1 2 | 9 42 | 2 15 | 0 37 | 0 40 | 15 37 | 1 45 | 7 12 | 10 15 | 19 35 | 19 23 | 2 53 | | n.a. |
| T 14 | 23 19 | 9 28 | 4 54 | 19 44 | 3 6 | 24 18 | 0 45 | 6 12 | 1 13 | 11 39 | 1 2 | 9 41 | 2 15 | 0 37 | 0 40 | 15 37 | 1 45 | 7 12 | 10 15 | 19 35 | 19 22 | 2 49 | | n.a. |
| F 15 | 23 24 | 4 16 | 4 25 | 19 27 | 3 14 | 24 24 | 0 47 | 6 27 | 1 13 | 11 43 | 1 2 | 9 41 | 2 16 | 0 37 | 0 40 | 15 36 | 1 45 | 7 12 | 10 15 | 19 35 | 19 21 | 2 46 | | n.a. |
| S 16 | 23 28 | 1 s 5 | 3 44 | 19 14 | 3 20 | 24 28 | 0 49 | 6 41 | 1 12 | 11 47 | 1 2 | 9 41 | 2 16 | 0 37 | 0 40 | 15 36 | 1 45 | 7 12 | 10 15 | 19 35 | 19 20 | 2 43 | | n.a. |
| S 17 | 23 31 | 6 25 | 2 53 | 19 3 | 3 23 | 24 32 | 0 51 | 6 56 | 1 12 | 11 50 | 1 2 | 9 41 | 2 16 | 0 37 | 0 40 | 15 36 | 1 45 | 7 12 | 10 15 | 19 36 | 19 20 | 2 40 | | n.a. |
| M18 | 23 34 | 11 36 | 1 55 | 18 55 | 3 23 | 24 35 | 0 53 | 7 10 | 1 12 | 11 54 | 1 2 | 9 41 | 2 17 | 0 37 | 0 40 | 15 35 | 1 45 | 7 12 | 10 15 | 19 36 | 19 19 | 2 37 | | n.a. |
| T 19 | 23 37 | 16 26 | 0 50 | 18 51 | 3 22 | 24 37 | 0 55 | 7 25 | 1 12 | 11 57 | 1 2 | 9 41 | 2 17 | 0 37 | 0 40 | 15 35 | 1 45 | 7 11 | 10 14 | 19 37 | 19 18 | 2 34 | | n.a. |
| W20 | 23 39 | 20 40 | 0 s18 | 18 49 | 3 20 | 24 38 | 0 56 | 7 39 | 1 11 | 12 1 | 1 2 | 9 41 | 2 17 | 0 37 | 0 39 | 15 35 | 1 45 | 7 11 | 10 14 | 19 37 | 19 17 | 2 30 | | n.a. |
| T 21 | 23 40 | 24 1 | 1 27 | 18 50 | 3 15 | 24 39 | 0 58 | 7 54 | 1 11 | 12 4 | 1 2 | 9 42 | 2 17 | 0 37 | 0 39 | 15 35 | 1 45 | 7 11 | 10 14 | 19 36 | 19 17 | 2 27 | | n.a. |
| F 22 | 23 42 | 26 11 | 2 33 | 18 54 | 3 10 | 24 39 | 1 0 | 8 8 | 1 11 | 12 8 | 1 2 | 9 42 | 2 18 | 0 37 | 0 39 | 15 34 | 1 45 | 7 11 | 10 14 | 19 36 | 19 16 | 2 24 | | n.a. |
| S 23 | 23 42 | 26 54 | 3 32 | 19 0 | 3 3 | 24 38 | 1 2 | 8 22 | 1 10 | 12 11 | 1 2 | 9 42 | 2 18 | 0 38 | 0 39 | 15 34 | 1 45 | 7 11 | 10 14 | 19 35 | 19 15 | 2 21 | | n.a. |
| S 24 | 23 42 | 26 0 | 4 20 | 19 8 | 2 56 | 24 36 | 1 3 | 8 36 | 1 10 | 12 15 | 1 3 | 9 42 | 2 18 | 0 38 | 0 39 | 15 34 | 1 45 | 7 11 | 10 13 | 19 33 | 19 14 | 2 18 | | n.a. |
| M25 | 23 42 | 23 31 | 4 53 | 19 18 | 2 48 | 24 34 | 1 5 | 8 50 | 1 10 | 12 18 | 1 3 | 9 43 | 2 19 | 0 38 | 0 39 | 15 33 | 1 45 | 7 11 | 10 13 | 19 32 | 19 13 | 2 14 | | n.a. |
| T 26 | 23 41 | 19 37 | 5 9 | 19 30 | 2 39 | 24 30 | 1 7 | 9 4 | 1 10 | 12 21 | 1 3 | 9 43 | 2 19 | 0 38 | 0 39 | 15 33 | 1 45 | 7 11 | 10 13 | 19 31 | 19 13 | 2 11 | | n.a. |
| W27 | 23 40 | 14 35 | 5 7 | 19 42 | 2 30 | 24 27 | 1 8 | 9 18 | 1 9 | 12 25 | 1 3 | 9 43 | 2 19 | 0 39 | 0 39 | 15 33 | 1 45 | 7 11 | 10 13 | 19 30 | 19 12 | 2 8 | | n.a. |
| T 28 | 23 38 | 8 46 | 4 46 | 19 56 | 2 20 | 24 22 | 1 10 | 9 32 | 1 9 | 12 28 | 1 3 | 9 44 | 2 19 | 0 39 | 0 39 | 15 33 | 1 44 | 7 11 | 10 13 | 19 29 | 19 11 | 2 5 | | n.a. |
| F 29 | 23 36 | 2 30 | 4 8 | 20 11 | 2 11 | 24 16 | 1 11 | 9 46 | 1 9 | 12 31 | 1 3 | 9 44 | 2 20 | 0 39 | 0 39 | 15 32 | 1 44 | 7 11 | 10 12 | 19 29 | 19 10 | 2 2 | | n.a. |
| S 30 | 23 33 | 3 n53 | 3 15 | 20 26 | 2 1 | 24 10 | 1 13 | 10 0 | 1 8 | 12 34 | 1 3 | 9 45 | 2 20 | 0 40 | 0 39 | 15 32 | 1 44 | 7 11 | 10 12 | 19 29 | 19 10 | 1 59 | | n.a. |
| S 31 | 23 s30 | 10 n 4 | 2 s10 | 20 s42 | 1 n51 | 24 s 3 | 1 s14 | 10 s13 | 1 n 8 | 12 s37 | 1 n 3 | 9 n45 | 2 n20 | 0 n40 | 0 s39 | 15 n32 | 1 s44 | 7 n11 | 10 s12 | 19 n29 | 19 n 9 | 1 n55 | | n.a. |

Julian Day Number = 1691441.5, Delta T = 03h10m16s
Ecliptic obliquity = 23°42'23, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°11'52, Lahiri = - 5°04'52 Julian Calendar 1 Dec. 83 BCE == Greg. Calendar 29 Nov. 083 BCE

The year -82 astronomical counting style corresponds to year 083 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 82 BCE
# geocentric

## JANUARY 82 BCE (-81) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 6 29 4 | 8♑17'16 | 15♉24 | 13♐17 | 16♑29 | 29♎44 | 5♏59 | 10°R47 | 3♈ 9 | 17°R20 | 16°R32 | 26♉ 5 | 24♉37 | 4♎23 | n.a. | M 1 |
| T 2 | 6 33 0 | 9°18'12 | 29°18 | 14°11 | 17°44 | 0♏21 | 6° 8 | 10♍46 | 3°10 | 17♉19 | 16♉31 | 26°R 6 | 24°33 | 4°29 | n.a. | T 2 |
| W 3 | 6 36 57 | 10°19'07 | 13♊ 4 | 15° 7 | 19° 0 | 0°58 | 6°17 | 10°45 | 3°11 | 17°18 | 16°31 | 26° 4 | 24°30 | 4°36 | n.a. | W 3 |
| T 4 | 6 40 53 | 11°20'00 | 26°41 | 16° 7 | 20°15 | 1°35 | 6°26 | 10°44 | 3°12 | 17°17 | 16°30 | 26° 1 | 24°27 | 4°43 | n.a. | T 4 |
| F 5 | 6 44 50 | 12°20'52 | 10♋ 6 | 17° 9 | 21°30 | 2°13 | 6°35 | 10°43 | 3°13 | 17°16 | 16°29 | 25°55 | 24°24 | 4°49 | n.a. | F 5 |
| S 6 | 6 48 46 | 13°21'42 | 23°16 | 18°14 | 22°45 | 2°50 | 6°44 | 10°42 | 3°14 | 17°15 | 16°29 | 25°47 | 24°21 | 4°56 | n.a. | S 6 |
| S 7 | 6 52 43 | 14°22'32 | 6♌11 | 19°21 | 24° 0 | 3°27 | 6°52 | 10°40 | 3°15 | 17°15 | 16°28 | 25°38 | 24°18 | 5° 3 | n.a. | S 7 |
| M 8 | 6 56 40 | 15°23'20 | 18°49 | 20°31 | 25°15 | 4° 4 | 7° 1 | 10°39 | 3°17 | 17°14 | 16°28 | 25°29 | 24°14 | 5° 9 | n.a. | M 8 |
| T 9 | 7 0 36 | 16°24'07 | 1♍12 | 21°42 | 26°30 | 4°41 | 7° 9 | 10°37 | 3°18 | 17°13 | 16°27 | 25°20 | 24°11 | 5°16 | n.a. | T 9 |
| W10 | 7 4 33 | 17°24'52 | 13°21 | 22°55 | 27°45 | 5°18 | 7°17 | 10°35 | 3°19 | 17°13 | 16°27 | 25°13 | 24° 8 | 5°23 | n.a. | W10 |
| T 11 | 7 8 29 | 18°25'36 | 25°20 | 24°10 | 29° 0 | 5°55 | 7°26 | 10°33 | 3°21 | 17°12 | 16°26 | 25° 7 | 24° 5 | 5°30 | n.a. | T 11 |
| F 12 | 7 12 26 | 19°26'19 | 7♎12 | 25°26 | 0♒15 | 6°32 | 7°33 | 10°31 | 3°22 | 17°11 | 16°26 | 25° 4 | 24° 2 | 5°36 | n.a. | F 12 |
| S 13 | 7 16 22 | 20°27'01 | 19° 2 | 26°44 | 1°30 | 7° 9 | 7°41 | 10°29 | 3°23 | 17°11 | 16°25 | 25°D 3 | 23°59 | 5°43 | n.a. | S 13 |
| S 14 | 7 20 19 | 21°27'42 | 0♏55 | 28° 3 | 2°45 | 7°46 | 7°49 | 10°27 | 3°25 | 17°10 | 16°25 | 25° 4 | 23°55 | 5°50 | n.a. | S 14 |
| M15 | 7 24 15 | 22°28'21 | 12°56 | 29°23 | 4° 0 | 8°23 | 7°57 | 10°25 | 3°27 | 17°10 | 16°25 | 25° 5 | 23°52 | 5°56 | n.a. | M15 |
| T 16 | 7 28 12 | 23°28'59 | 25°12 | 0♑45 | 5°15 | 9° 0 | 8° 4 | 10°22 | 3°28 | 17° 9 | 16°24 | 25°R 5 | 23°49 | 6° 3 | n.a. | T 16 |
| W17 | 7 32 9 | 24°29'36 | 7♐45 | 2° 8 | 6°30 | 9°37 | 8°11 | 10°20 | 3°30 | 17° 9 | 16°24 | 25° 4 | 23°46 | 6°10 | n.a. | W17 |
| T 18 | 7 36 5 | 25°30'11 | 20°41 | 3°32 | 7°45 | 10°13 | 8°19 | 10°17 | 3°31 | 17° 8 | 16°24 | 25° 1 | 23°43 | 6°16 | n.a. | T 18 |
| F 19 | 7 40 2 | 26°30'45 | 4♑ 1 | 4°57 | 9° 0 | 10°50 | 8°26 | 10°15 | 3°33 | 17° 8 | 16°23 | 24°56 | 23°39 | 6°23 | n.a. | F 19 |
| S 20 | 7 43 58 | 27°31'17 | 17°44 | 6°24 | 10°15 | 11°27 | 8°32 | 10°12 | 3°35 | 17° 7 | 16°23 | 24°48 | 23°36 | 6°30 | n.a. | S 20 |
| S 21 | 7 47 55 | 28°31'48 | 1♒48 | 7°51 | 11°30 | 12° 3 | 8°39 | 10° 9 | 3°37 | 17° 7 | 16°23 | 24°38 | 23°33 | 6°36 | n.a. | S 21 |
| M22 | 7 51 51 | 29°32'17 | 16° 9 | 9°20 | 12°44 | 12°40 | 8°46 | 10° 6 | 3°39 | 17° 7 | 16°22 | 24°27 | 23°30 | 6°43 | n.a. | M22 |
| T 23 | 7 55 48 | 0♒32'44 | 0♓40 | 10°49 | 13°59 | 13°17 | 8°52 | 10° 3 | 3°41 | 17° 7 | 16°22 | 24°17 | 23°27 | 6°50 | n.a. | T 23 |
| W24 | 7 59 44 | 1°33'09 | 15°14 | 12°20 | 15°14 | 13°53 | 8°58 | 10° 0 | 3°43 | 17° 6 | 16°22 | 24° 8 | 23°24 | 6°57 | n.a. | W24 |
| T 25 | 8 3 41 | 2°33'32 | 29°44 | 13°51 | 16°29 | 14°30 | 9° 5 | 9°57 | 3°45 | 17° 6 | 16°22 | 24° 1 | 23°20 | 7° 3 | n.a. | T 25 |
| F 26 | 8 7 38 | 3°33'52 | 14♈ 6 | 15°24 | 17°44 | 15° 6 | 9°11 | 9°54 | 3°47 | 17° 6 | 16°22 | 23°58 | 23°17 | 7°10 | n.a. | F 26 |
| S 27 | 8 11 34 | 4°34'11 | 28°17 | 16°57 | 18°58 | 15°42 | 9°16 | 9°51 | 3°49 | 17° 6 | 16°21 | 23°56 | 23°14 | 7°17 | n.a. | S 27 |
| S 28 | 8 15 31 | 5°34'28 | 12♉15 | 18°32 | 20°13 | 16°19 | 9°22 | 9°47 | 3°51 | 17° 6 | 16°21 | 23°D56 | 23°11 | 7°23 | n.a. | S 28 |
| M29 | 8 19 27 | 6°34'42 | 26° 0 | 20° 7 | 21°28 | 16°55 | 9°27 | 9°44 | 3°53 | 17° 6 | 16°21 | 23°R56 | 23° 8 | 7°30 | n.a. | M29 |
| T 30 | 8 23 24 | 7°34'55 | 9♊34 | 21°44 | 22°42 | 17°31 | 9°33 | 9°40 | 3°55 | 17°D 6 | 16°21 | 23°55 | 23° 5 | 7°37 | n.a. | T 30 |
| W31 | 8 27 20 | 8♒35'05 | 22♊56 | 23♑22 | 23♒57 | 18♏ 7 | 9♏38 | 9♍37 | 3♈57 | 17♉ 6 | 16♉21 | 23♉52 | 23♉ 1 | 7♎43 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 23s27 | 15n43 | 0s58 | 20s58 | 1n41 | 23s55 | 1s15 | 10s27 | 1n 8 | 12s40 | 1n 3 | 9n46 | 2n21 | 0n40 | 0s39 | 15n32 | 1s44 | 7n11 | 10s12 | 19n29 | 19n 8 | 1n52 | | n.a. |
| T 2 | 23 23 | 20 30 | 0n17 | 21 15 | 1 31 | 23 47 | 1 16 | 10 40 | 1 7 | 12 43 | 1 3 | 9 46 | 2 21 | 0 41 | 0 39 | 15 31 | 1 44 | 7 11 | 10 12 | 19 30 | 19 7 | 1 49 | | n.a. |
| W 3 | 23 18 | 24 7 | 1 31 | 21 31 | 1 21 | 23 38 | 1 18 | 10 54 | 1 7 | 12 46 | 1 3 | 9 47 | 2 21 | 0 41 | 0 39 | 15 31 | 1 44 | 7 11 | 10 11 | 19 29 | 19 6 | 1 46 | | n.a. |
| T 4 | 23 13 | 26 17 | 2 38 | 21 47 | 1 12 | 23 28 | 1 19 | 11 7 | 1 6 | 12 49 | 1 3 | 9 48 | 2 21 | 0 42 | 0 39 | 15 31 | 1 44 | 7 11 | 10 11 | 19 28 | 19 6 | 1 43 | | n.a. |
| F 5 | 23 8 | 26 53 | 3 35 | 22 3 | 1 2 | 23 17 | 1 20 | 11 21 | 1 6 | 12 52 | 1 4 | 9 49 | 2 22 | 0 42 | 0 39 | 15 31 | 1 44 | 7 11 | 10 11 | 19 27 | 19 5 | 1 39 | | n.a. |
| S 6 | 23 2 | 25 56 | 4 19 | 22 19 | 0 52 | 23 6 | 1 21 | 11 34 | 1 6 | 12 55 | 1 4 | 9 49 | 2 22 | 0 43 | 0 39 | 15 31 | 1 44 | 7 11 | 10 11 | 19 25 | 19 4 | 1 36 | | n.a. |
| S 7 | 22 55 | 23 36 | 4 49 | 22 34 | 0 43 | 22 53 | 1 22 | 11 47 | 1 5 | 12 57 | 1 4 | 9 50 | 2 22 | 0 43 | 0 39 | 15 31 | 1 44 | 7 11 | 10 10 | 19 23 | 19 3 | 1 33 | | n.a. |
| M 8 | 22 48 | 20 10 | 5 4 | 22 48 | 0 33 | 22 41 | 1 23 | 12 0 | 1 5 | 13 0 | 1 4 | 9 51 | 2 22 | 0 44 | 0 39 | 15 30 | 1 44 | 7 12 | 10 10 | 19 21 | 19 2 | 1 30 | | n.a. |
| T 9 | 22 41 | 15 54 | 5 5 | 23 2 | 0 24 | 22 27 | 1 24 | 12 13 | 1 4 | 13 3 | 1 4 | 9 52 | 2 23 | 0 44 | 0 39 | 15 30 | 1 44 | 7 12 | 10 10 | 19 19 | 19 2 | 1 27 | | n.a. |
| W10 | 22 33 | 11 5 | 4 51 | 23 16 | 0 15 | 22 13 | 1 24 | 12 26 | 1 4 | 13 5 | 1 4 | 9 53 | 2 23 | 0 45 | 0 39 | 15 30 | 1 44 | 7 12 | 10 10 | 19 17 | 19 1 | 1 23 | | n.a. |
| T 11 | 22 25 | 5 55 | 4 25 | 23 28 | 0 7 | 21 58 | 1 25 | 12 39 | 1 3 | 13 8 | 1 4 | 9 54 | 2 23 | 0 45 | 0 39 | 15 30 | 1 44 | 7 12 | 10 9 | 19 16 | 19 0 | 1 20 | | n.a. |
| F 12 | 22 17 | 0 36 | 3 48 | 23 40 | 0s 2 | 21 43 | 1 26 | 12 51 | 1 3 | 13 10 | 1 4 | 9 55 | 2 23 | 0 46 | 0 39 | 15 30 | 1 44 | 7 12 | 10 9 | 19 15 | 18 59 | 1 17 | | n.a. |
| S 13 | 22 8 | 4s45 | 3 1 | 23 50 | 0 10 | 21 27 | 1 26 | 13 4 | 1 3 | 13 13 | 1 4 | 9 56 | 2 24 | 0 46 | 0 39 | 15 30 | 1 44 | 7 12 | 10 9 | 19 15 | 18 59 | 1 14 | | n.a. |
| S 14 | 21 58 | 9 57 | 2 6 | 24 0 | 0 18 | 21 10 | 1 27 | 13 17 | 1 2 | 13 15 | 1 4 | 9 57 | 2 24 | 0 47 | 0 39 | 15 30 | 1 43 | 7 12 | 10 9 | 19 15 | 18 58 | 1 10 | | n.a. |
| M15 | 21 49 | 14 52 | 1 5 | 24 9 | 0 26 | 20 53 | 1 27 | 13 29 | 1 2 | 13 18 | 1 5 | 9 58 | 2 24 | 0 48 | 0 38 | 15 30 | 1 43 | 7 12 | 10 9 | 19 15 | 18 57 | 1 7 | | n.a. |
| T 16 | 21 38 | 19 17 | 0s 1 | 24 16 | 0 34 | 20 35 | 1 28 | 13 41 | 1 1 | 13 20 | 1 5 | 9 59 | 2 24 | 0 48 | 0 38 | 15 30 | 1 43 | 7 12 | 10 8 | 19 15 | 18 56 | 1 4 | | n.a. |
| W17 | 21 28 | 22 57 | 1 7 | 24 23 | 0 41 | 20 17 | 1 28 | 13 54 | 1 1 | 13 22 | 1 5 | 10 0 | 2 25 | 0 49 | 0 38 | 15 29 | 1 43 | 7 13 | 10 8 | 19 15 | 18 55 | 1 1 | | n.a. |
| T 18 | 21 17 | 25 35 | 2 12 | 24 28 | 0 48 | 19 58 | 1 28 | 14 6 | 1 0 | 13 25 | 1 5 | 10 2 | 2 25 | 0 50 | 0 38 | 15 29 | 1 43 | 7 13 | 10 8 | 19 14 | 18 55 | 0 58 | | n.a. |
| F 19 | 21 5 | 26 51 | 3 12 | 24 32 | 0 55 | 19 38 | 1 29 | 14 18 | 0 59 | 13 27 | 1 5 | 10 3 | 2 25 | 0 51 | 0 38 | 15 29 | 1 43 | 7 13 | 10 8 | 19 13 | 18 54 | 0 54 | | n.a. |
| S 20 | 20 53 | 26 31 | 4 2 | 24 35 | 1 2 | 19 18 | 1 29 | 14 30 | 0 59 | 13 29 | 1 5 | 10 4 | 2 25 | 0 51 | 0 38 | 15 29 | 1 43 | 7 13 | 10 7 | 19 11 | 18 53 | 0 51 | | n.a. |
| S 21 | 20 41 | 24 31 | 4 39 | 24 36 | 1 8 | 18 57 | 1 29 | 14 42 | 0 58 | 13 31 | 1 5 | 10 5 | 2 26 | 0 52 | 0 38 | 15 29 | 1 43 | 7 13 | 10 7 | 19 8 | 18 52 | 0 48 | | n.a. |
| M22 | 20 28 | 20 55 | 5 0 | 24 37 | 1 14 | 18 36 | 1 29 | 14 54 | 0 58 | 13 33 | 1 5 | 10 7 | 2 26 | 0 53 | 0 38 | 15 29 | 1 43 | 7 13 | 10 7 | 19 6 | 18 51 | 0 45 | | n.a. |
| T 23 | 20 16 | 16 2 | 5 1 | 24 35 | 1 20 | 18 14 | 1 29 | 15 5 | 0 57 | 13 35 | 1 6 | 10 8 | 2 26 | 0 54 | 0 38 | 15 29 | 1 43 | 7 14 | 10 7 | 19 3 | 18 51 | 0 42 | | n.a. |
| W24 | 20 2 | 10 13 | 4 43 | 24 33 | 1 26 | 17 51 | 1 29 | 15 17 | 0 57 | 13 37 | 1 6 | 10 9 | 2 26 | 0 54 | 0 38 | 15 29 | 1 43 | 7 14 | 10 6 | 19 1 | 18 50 | 0 38 | | n.a. |
| T 25 | 19 48 | 3 52 | 4 6 | 24 29 | 1 31 | 17 29 | 1 29 | 15 28 | 0 56 | 13 39 | 1 6 | 10 11 | 2 27 | 0 55 | 0 38 | 15 29 | 1 43 | 7 14 | 10 6 | 18 59 | 18 49 | 0 35 | | n.a. |
| F 26 | 19 34 | 2n38 | 3 15 | 24 23 | 1 36 | 17 5 | 1 28 | 15 40 | 0 55 | 13 40 | 1 6 | 10 12 | 2 27 | 0 56 | 0 38 | 15 29 | 1 43 | 7 14 | 10 6 | 18 58 | 18 48 | 0 32 | | n.a. |
| S 27 | 19 20 | 8 56 | 2 12 | 24 16 | 1 40 | 16 42 | 1 28 | 15 51 | 0 55 | 13 42 | 1 6 | 10 14 | 2 27 | 0 57 | 0 38 | 15 29 | 1 43 | 7 14 | 10 6 | 18 58 | 18 47 | 0 29 | | n.a. |
| S 28 | 19 5 | 14 42 | 1 2 | 24 8 | 1 44 | 16 17 | 1 28 | 16 2 | 0 54 | 13 44 | 1 6 | 10 15 | 2 27 | 0 58 | 0 38 | 15 29 | 1 43 | 7 15 | 10 5 | 18 58 | 18 47 | 0 25 | | n.a. |
| M29 | 18 50 | 19 39 | 0n11 | 23 58 | 1 48 | 15 53 | 1 27 | 16 13 | 0 54 | 13 45 | 1 6 | 10 17 | 2 27 | 0 59 | 0 38 | 15 29 | 1 43 | 7 15 | 10 5 | 18 58 | 18 46 | 0 22 | | n.a. |
| T 30 | 18 35 | 23 29 | 1 22 | 23 46 | 1 52 | 15 28 | 1 27 | 16 24 | 0 53 | 13 47 | 1 6 | 10 18 | 2 28 | 1 0 | 0 38 | 15 29 | 1 42 | 7 15 | 10 5 | 18 58 | 18 45 | 0 19 | | n.a. |
| W31 | 18s19 | 25n58 | 2n27 | 23s33 | 1s55 | 15s 2 | 1s26 | 16s35 | 0n52 | 13s49 | 1n 7 | 10n20 | 2n28 | 1n 1 | 0s38 | 15n29 | 1s42 | 7n15 | 10s 4 | 18n57 | 18n44 | 0n16 | | n.a. |

Julian Day Number = 1691472.5, Delta T = 03h10m15s
Ecliptic obliquity = 23°42'23, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°11'48, Lahiri = - 5°04'48 Julian Calendar 1 Jan. 82 BCE == Greg. Calendar 30 Dec. 083 BCE

The year -81 astronomical counting style corresponds to year 082 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 82 BCE
# geocentric

## FEBRUARY 82 BCE (-81) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 31 17 | 9♒35'13 | 6♋ 8 | 25♉ 0 | 25♒11 | 18♏43 | 9♏43 | 9°R33 | 4♈ 0 | 17♉ 6 | 16°R21 | 23°R46 | 22♉58 | 7♎50 | n.a. | T 1 |
| F 2 | 8 35 13 | 10°35'19 | 19° 9 | 26°40 | 26°26 | 19°19 | 9°48 | 9♍29 | 4° 2 | 17° 6 | 16°D21 | 23♉37 | 22°55 | 7°57 | n.a. | F 2 |
| S 3 | 8 39 10 | 11°35'23 | 2♌ 0 | 28°21 | 27°40 | 19°55 | 9°53 | 9°25 | 4° 4 | 17° 6 | 16♉21 | 23°26 | 22°52 | 8° 3 | n.a. | S 3 |
| S 4 | 8 43 7 | 12°35'24 | 14°38 | 0♒ 3 | 28°55 | 20°31 | 9°57 | 9°22 | 4° 7 | 17° 6 | 16°21 | 23°13 | 22°49 | 8°10 | n.a. | S 4 |
| M 5 | 8 47 3 | 13°35'24 | 27° 5 | 1°46 | 0♓ 9 | 21° 7 | 10° 1 | 9°18 | 4° 9 | 17° 6 | 16°21 | 22°59 | 22°45 | 8°17 | n.a. | M 5 |
| T 6 | 8 51 0 | 14°35'22 | 9♍20 | 3°30 | 1°24 | 21°43 | 10° 6 | 9°14 | 4°12 | 17° 7 | 16°21 | 22°45 | 22°42 | 8°23 | n.a. | T 6 |
| W 7 | 8 54 56 | 15°35'18 | 21°25 | 5°15 | 2°38 | 22°19 | 10°10 | 9°10 | 4°14 | 17° 7 | 16°21 | 22°34 | 22°39 | 8°30 | n.a. | W 7 |
| T 8 | 8 58 53 | 16°35'12 | 3♎21 | 7° 1 | 3°53 | 22°55 | 10°13 | 9° 6 | 4°17 | 17° 7 | 16°22 | 22°25 | 22°36 | 8°37 | n.a. | T 8 |
| F 9 | 9 2 49 | 17°35'04 | 15°11 | 8°48 | 5° 7 | 23°30 | 10°17 | 9° 2 | 4°19 | 17° 7 | 16°22 | 22°19 | 22°33 | 8°43 | n.a. | F 9 |
| S 10 | 9 6 46 | 18°34'54 | 27° 0 | 10°37 | 6°21 | 24° 6 | 10°21 | 8°57 | 4°22 | 17° 8 | 16°22 | 22°15 | 22°30 | 8°50 | n.a. | S 10 |
| S 11 | 9 10 42 | 19°34'43 | 8♏51 | 12°27 | 7°36 | 24°42 | 10°24 | 8°53 | 4°25 | 17° 8 | 16°22 | 22°14 | 22°26 | 8°57 | n.a. | S 11 |
| M12 | 9 14 39 | 20°34'30 | 20°51 | 14°17 | 8°50 | 25°17 | 10°27 | 8°49 | 4°27 | 17° 9 | 16°22 | 22°13 | 22°23 | 9° 4 | n.a. | M12 |
| T 13 | 9 18 36 | 21°34'15 | 3♐ 4 | 16° 9 | 10° 4 | 25°52 | 10°30 | 8°45 | 4°30 | 17° 9 | 16°23 | 22°13 | 22°20 | 9°10 | n.a. | T 13 |
| W14 | 9 22 32 | 22°33'58 | 15°36 | 18° 3 | 11°18 | 26°28 | 10°33 | 8°40 | 4°33 | 17°10 | 16°23 | 22°12 | 22°17 | 9°17 | n.a. | W14 |
| T 15 | 9 26 29 | 23°33'39 | 28°32 | 19°57 | 12°33 | 27° 3 | 10°35 | 8°36 | 4°35 | 17°10 | 16°23 | 22° 9 | 22°14 | 9°24 | n.a. | T 15 |
| F 16 | 9 30 25 | 24°33'19 | 11♑55 | 21°52 | 13°47 | 27°38 | 10°38 | 8°31 | 4°38 | 17°11 | 16°23 | 22° 3 | 22°10 | 9°30 | n.a. | F 16 |
| S 17 | 9 34 22 | 25°32'57 | 25°46 | 23°49 | 15° 1 | 28°13 | 10°40 | 8°27 | 4°41 | 17°11 | 16°24 | 21°54 | 22° 7 | 9°37 | n.a. | S 17 |
| S 18 | 9 38 18 | 26°32'32 | 10♒ 4 | 25°46 | 16°15 | 28°48 | 10°42 | 8°23 | 4°44 | 17°12 | 16°24 | 21°43 | 22° 4 | 9°44 | n.a. | S 18 |
| M19 | 9 42 15 | 27°32'06 | 24°44 | 27°45 | 17°29 | 29°23 | 10°44 | 8°18 | 4°47 | 17°13 | 16°24 | 21°31 | 22° 1 | 9°50 | n.a. | M19 |
| T 20 | 9 46 11 | 28°31'37 | 9♓38 | 29°44 | 18°43 | 29°58 | 10°46 | 8°13 | 4°50 | 17°13 | 16°25 | 21°20 | 21°58 | 9°57 | n.a. | T 20 |
| W21 | 9 50 8 | 29°31'06 | 24°37 | 1♓44 | 19°57 | 0♐33 | 10°47 | 8° 9 | 4°53 | 17°14 | 16°25 | 21°10 | 21°55 | 10° 4 | n.a. | W21 |
| T 22 | 9 54 5 | 0♓30'33 | 9♈31 | 3°45 | 21°11 | 1° 8 | 10°48 | 8° 4 | 4°56 | 17°15 | 16°26 | 21° 3 | 21°51 | 10°10 | n.a. | T 22 |
| F 23 | 9 58 1 | 1°29'58 | 24°14 | 5°46 | 22°25 | 1°42 | 10°49 | 8° 0 | 4°59 | 17°16 | 16°26 | 20°58 | 21°48 | 10°17 | n.a. | F 23 |
| S 24 | 10 1 58 | 2°29'20 | 8♉39 | 7°48 | 23°39 | 2°17 | 10°50 | 7°55 | 5° 2 | 17°16 | 16°27 | 20°56 | 21°45 | 10°24 | n.a. | S 24 |
| S 25 | 10 5 54 | 3°28'40 | 22°45 | 9°50 | 24°53 | 2°51 | 10°51 | 7°50 | 5° 5 | 17°17 | 16°27 | 20°D55 | 21°42 | 10°30 | n.a. | S 25 |
| M26 | 10 9 51 | 4°27'57 | 6♊30 | 11°51 | 26° 6 | 3°26 | 10°52 | 7°46 | 5° 8 | 17°18 | 16°28 | 20°R56 | 21°39 | 10°37 | n.a. | M26 |
| T 27 | 10 13 47 | 5°27'12 | 19°57 | 13°53 | 27°20 | 4° 0 | 10°52 | 7°41 | 5°11 | 17°19 | 16°28 | 20°55 | 21°36 | 10°44 | n.a. | T 27 |
| W28 | 10 17 44 | 6♓26'25 | 3♋ 7 | 15♓53 | 28♓34 | 4♐34 | 10°R52 | 7♍37 | 5♈14 | 17♉20 | 16♉29 | 20♉52 | 21♉32 | 10♎50 | n.a. | W28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 18s 3 | 26n57 | 3n23 | 23s18 | 1s57 | 14s36 | 1s25 | 16s46 | 0n51 | 13s50 | 1n 7 | 10n21 | 2n28 | 1n 2 | 0s38 | 15n30 | 1s42 | 7n15 | 10s 4 | 18n55 | 18n43 | 0n12 | | n.a. |
| F 2 | 17 47 | 26 25 | 4 8 | 23 1 | 2 0 | 14 10 | 1 25 | 16 56 | 0 51 | 13 51 | 1 7 | 10 23 | 2 28 | 1 3 | 0 38 | 15 30 | 1 42 | 7 16 | 10 4 | 18 53 | 18 42 | 0 9 | | n.a. |
| S 3 | 17 30 | 24 28 | 4 40 | 22 43 | 2 2 | 13 44 | 1 24 | 17 7 | 0 50 | 13 53 | 1 7 | 10 25 | 2 28 | 1 4 | 0 38 | 15 30 | 1 42 | 7 16 | 10 4 | 18 50 | 18 42 | 0 6 | | n.a. |
| S 4 | 17 13 | 21 21 | 4 57 | 22 22 | 2 3 | 13 17 | 1 23 | 17 17 | 0 49 | 13 54 | 1 7 | 10 26 | 2 29 | 1 5 | 0 38 | 15 30 | 1 42 | 7 16 | 10 3 | 18 47 | 18 41 | 0 3 | | n.a. |
| M 5 | 16 56 | 17 18 | 4 59 | 22 1 | 2 5 | 12 49 | 1 22 | 17 28 | 0 49 | 13 55 | 1 7 | 10 28 | 2 29 | 1 6 | 0 38 | 15 30 | 1 42 | 7 17 | 10 3 | 18 43 | 18 40 | 0s 0 | | n.a. |
| T 6 | 16 38 | 12 35 | 4 48 | 21 37 | 2 5 | 12 22 | 1 21 | 17 38 | 0 48 | 13 57 | 1 7 | 10 30 | 2 29 | 1 7 | 0 38 | 15 30 | 1 42 | 7 17 | 10 3 | 18 40 | 18 39 | 0 4 | | n.a. |
| W 7 | 16 20 | 7 28 | 4 23 | 21 12 | 2 6 | 11 54 | 1 20 | 17 48 | 0 47 | 13 58 | 1 7 | 10 31 | 2 29 | 1 8 | 0 38 | 15 30 | 1 42 | 7 17 | 10 3 | 18 37 | 18 38 | 0 7 | | n.a. |
| T 8 | 16 2 | 2 8 | 3 48 | 20 45 | 2 5 | 11 25 | 1 19 | 17 58 | 0 46 | 13 59 | 1 8 | 10 33 | 2 29 | 1 9 | 0 38 | 15 30 | 1 42 | 7 17 | 10 2 | 18 35 | 18 38 | 0 10 | | n.a. |
| F 9 | 15 44 | 3s15 | 3 2 | 20 16 | 2 5 | 10 57 | 1 18 | 18 8 | 0 45 | 14 0 | 1 8 | 10 35 | 2 29 | 1 10 | 0 38 | 15 31 | 1 42 | 7 18 | 10 2 | 18 33 | 18 37 | 0 13 | | n.a. |
| S 10 | 15 26 | 8 30 | 2 9 | 19 45 | 2 4 | 10 28 | 1 17 | 18 17 | 0 45 | 14 1 | 1 8 | 10 36 | 2 30 | 1 11 | 0 38 | 15 31 | 1 42 | 7 18 | 10 2 | 18 32 | 18 36 | 0 17 | | n.a. |
| S 11 | 15 7 | 13 30 | 1 10 | 19 13 | 2 2 | 9 59 | 1 15 | 18 27 | 0 44 | 14 2 | 1 8 | 10 38 | 2 30 | 1 12 | 0 38 | 15 31 | 1 42 | 7 18 | 10 2 | 18 32 | 18 35 | 0 20 | | n.a. |
| M12 | 14 48 | 18 3 | 0 7 | 18 38 | 2 0 | 9 29 | 1 14 | 18 36 | 0 43 | 14 3 | 1 8 | 10 40 | 2 30 | 1 13 | 0 38 | 15 31 | 1 42 | 7 19 | 10 1 | 18 32 | 18 34 | 0 23 | | n.a. |
| T 13 | 14 28 | 21 56 | 0s57 | 18 2 | 1 57 | 9 0 | 1 13 | 18 46 | 0 42 | 14 3 | 1 8 | 10 42 | 2 30 | 1 14 | 0 38 | 15 31 | 1 42 | 7 19 | 10 1 | 18 32 | 18 33 | 0 26 | | n.a. |
| W14 | 14 9 | 24 55 | 2 0 | 17 24 | 1 54 | 8 30 | 1 11 | 18 55 | 0 41 | 14 4 | 1 8 | 10 43 | 2 30 | 1 15 | 0 38 | 15 31 | 1 42 | 7 19 | 10 1 | 18 31 | 18 33 | 0 30 | | n.a. |
| T 15 | 13 49 | 26 41 | 2 59 | 16 44 | 1 51 | 8 0 | 1 10 | 19 4 | 0 40 | 14 5 | 1 8 | 10 45 | 2 30 | 1 16 | 0 38 | 15 32 | 1 41 | 7 20 | 10 1 | 18 30 | 18 32 | 0 33 | | n.a. |
| F 16 | 13 29 | 27 0 | 3 51 | 16 3 | 1 46 | 7 30 | 1 8 | 19 13 | 0 39 | 14 6 | 1 9 | 10 47 | 2 30 | 1 17 | 0 37 | 15 32 | 1 41 | 7 20 | 10 0 | 18 29 | 18 31 | 0 36 | | n.a. |
| S 17 | 13 9 | 25 39 | 4 30 | 15 20 | 1 42 | 6 59 | 1 6 | 19 22 | 0 38 | 14 6 | 1 9 | 10 49 | 2 31 | 1 19 | 0 37 | 15 32 | 1 41 | 7 20 | 10 0 | 18 27 | 18 30 | 0 39 | | n.a. |
| S 18 | 12 48 | 22 38 | 4 54 | 14 35 | 1 36 | 6 28 | 1 5 | 19 31 | 0 37 | 14 7 | 1 9 | 10 51 | 2 31 | 1 20 | 0 37 | 15 32 | 1 41 | 7 21 | 10 0 | 18 24 | 18 29 | 0 43 | | n.a. |
| M19 | 12 28 | 18 7 | 5 0 | 13 48 | 1 30 | 5 58 | 1 3 | 19 39 | 0 36 | 14 7 | 1 9 | 10 52 | 2 31 | 1 21 | 0 37 | 15 33 | 1 41 | 7 21 | 10 0 | 18 21 | 18 29 | 0 46 | | n.a. |
| T 20 | 12 7 | 12 26 | 4 45 | 13 0 | 1 24 | 5 27 | 1 1 | 19 48 | 0 35 | 14 7 | 1 9 | 10 54 | 2 31 | 1 22 | 0 37 | 15 33 | 1 41 | 7 21 | 9 59 | 18 18 | 18 28 | 0 49 | | n.a. |
| W21 | 11 46 | 6 0 | 4 11 | 12 10 | 1 17 | 4 56 | 0 59 | 19 56 | 0 34 | 14 8 | 1 9 | 10 56 | 2 31 | 1 23 | 0 37 | 15 33 | 1 41 | 7 22 | 9 59 | 18 15 | 18 27 | 0 52 | | n.a. |
| T 22 | 11 25 | 0n45 | 3 20 | 11 19 | 1 9 | 4 25 | 0 57 | 20 4 | 0 33 | 14 8 | 1 9 | 10 58 | 2 31 | 1 25 | 0 37 | 15 33 | 1 41 | 7 22 | 9 59 | 18 13 | 18 26 | 0 56 | | n.a. |
| F 23 | 11 4 | 7 23 | 2 16 | 10 26 | 1 1 | 3 53 | 0 55 | 20 13 | 0 32 | 14 8 | 1 9 | 11 0 | 2 31 | 1 26 | 0 37 | 15 34 | 1 41 | 7 22 | 9 59 | 18 12 | 18 25 | 0 59 | | n.a. |
| S 24 | 10 42 | 13 32 | 1 4 | 9 32 | 0 52 | 3 22 | 0 53 | 20 21 | 0 31 | 14 9 | 1 10 | 11 2 | 2 31 | 1 27 | 0 37 | 15 34 | 1 41 | 7 23 | 9 58 | 18 11 | 18 24 | 1 2 | | n.a. |
| S 25 | 10 21 | 18 49 | 0n10 | 8 37 | 0 43 | 2 50 | 0 51 | 20 28 | 0 30 | 14 9 | 1 10 | 11 3 | 2 31 | 1 28 | 0 37 | 15 34 | 1 41 | 7 23 | 9 58 | 18 11 | 18 24 | 1 5 | | n.a. |
| M26 | 9 59 | 22 59 | 1 22 | 7 42 | 0 33 | 2 19 | 0 49 | 20 36 | 0 29 | 14 9 | 1 10 | 11 5 | 2 31 | 1 29 | 0 37 | 15 35 | 1 41 | 7 23 | 9 58 | 18 11 | 18 23 | 1 9 | | n.a. |
| T 27 | 9 37 | 25 46 | 2 27 | 6 45 | 0 22 | 1 47 | 0 47 | 20 44 | 0 28 | 14 9 | 1 10 | 11 7 | 2 31 | 1 31 | 0 37 | 15 35 | 1 41 | 7 24 | 9 58 | 18 11 | 18 22 | 1 12 | | n.a. |
| W28 | 9s15 | 27n 4 | 3n24 | 5s48 | 0s12 | 1s15 | 0s45 | 20s51 | 0n26 | 14s 9 | 1n10 | 11n 9 | 2n31 | 1n32 | 0s37 | 15n35 | 1s41 | 7n24 | 9s57 | 18n10 | 18n21 | 1s15 | | n.a. |

Julian Day Number = 1691503.5, Delta T = 03h10m14s
Ecliptic obliquity = 23°42'23, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°11'44, Lahiri = - 5°04'43 Julian Calendar 1 Feb. 82 BCE == Greg. Calendar 30 Jan. 082 BCE

The year -81 astronomical counting style corresponds to year 082 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 82 BCE
# geocentric

## MARCH 82 BCE (-81) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 10 21 40 | 7♓25'35 | 16♋ 2 | 17♓53 | 29♓48 | 5♐ 8 | 10°R52 | 7°R32 | 5♈17 | 17♉21 | 16♉29 | 20°R47 | 21♉29 | 10♎57 | n.a. | T 1 |
| F 2 | 10 25 37 | 8°24'43 | 28°45 | 19°51 | 1♈ 1 | 5°42 | 10♏52 | 7♍27 | 5°20 | 17°22 | 16°30 | 20♉39 | 21°26 | 11° 4 | n.a. | F 2 |
| S 3 | 10 29 34 | 9°23'48 | 11♌17 | 21°47 | 2°15 | 6°16 | 10°52 | 7°23 | 5°23 | 17°23 | 16°31 | 20°28 | 21°23 | 11°10 | n.a. | S 3 |
| S 4 | 10 33 30 | 10°22'51 | 23°39 | 23°42 | 3°28 | 6°49 | 10°51 | 7°18 | 5°27 | 17°24 | 16°31 | 20°16 | 21°20 | 11°17 | n.a. | S 4 |
| M 5 | 10 37 27 | 11°21'52 | 5♍52 | 25°33 | 4°42 | 7°23 | 10°50 | 7°13 | 5°30 | 17°25 | 16°32 | 20° 3 | 21°16 | 11°24 | n.a. | M 5 |
| T 6 | 10 41 23 | 12°20'51 | 17°57 | 27°22 | 5°55 | 7°56 | 10°49 | 7° 9 | 5°33 | 17°26 | 16°33 | 19°51 | 21°13 | 11°30 | n.a. | T 6 |
| W 7 | 10 45 20 | 13°19'48 | 29°54 | 29° 8 | 7° 9 | 8°30 | 10°48 | 7° 4 | 5°36 | 17°28 | 16°33 | 19°40 | 21°10 | 11°37 | n.a. | W 7 |
| T 8 | 10 49 16 | 14°18'42 | 11♎46 | 0♈49 | 8°22 | 9° 3 | 10°47 | 6°59 | 5°39 | 17°29 | 16°34 | 19°32 | 21° 7 | 11°44 | n.a. | T 8 |
| F 9 | 10 53 13 | 15°17'35 | 23°35 | 2°27 | 9°36 | 9°36 | 10°45 | 6°55 | 5°43 | 17°30 | 16°35 | 19°26 | 21° 4 | 11°51 | n.a. | F 9 |
| S 10 | 10 57 9 | 16°16'25 | 5♏23 | 4° 1 | 10°49 | 10° 9 | 10°44 | 6°50 | 5°46 | 17°31 | 16°35 | 19°23 | 21° 1 | 11°57 | n.a. | S 10 |
| S 11 | 11 1 6 | 17°15'14 | 17°15 | 5°30 | 12° 2 | 10°42 | 10°42 | 6°46 | 5°49 | 17°32 | 16°36 | 19°D21 | 20°57 | 12° 4 | n.a. | S 11 |
| M12 | 11 5 2 | 18°14'01 | 29°14 | 6°54 | 13°15 | 11°15 | 10°40 | 6°41 | 5°53 | 17°34 | 16°37 | 19°22 | 20°54 | 12°11 | n.a. | M12 |
| T 13 | 11 8 59 | 19°12'46 | 11♐26 | 8°13 | 14°28 | 11°48 | 10°37 | 6°37 | 5°56 | 17°35 | 16°38 | 19°22 | 20°51 | 12°17 | n.a. | T 13 |
| W14 | 11 12 56 | 20°11'30 | 23°56 | 9°27 | 15°42 | 12°20 | 10°35 | 6°32 | 5°59 | 17°36 | 16°39 | 19°R23 | 20°48 | 12°24 | n.a. | W14 |
| T 15 | 11 16 52 | 21°10'11 | 6♑48 | 10°35 | 16°55 | 12°53 | 10°32 | 6°28 | 6° 3 | 17°38 | 16°39 | 19°21 | 20°45 | 12°31 | n.a. | T 15 |
| F 16 | 11 20 49 | 22° 8'51 | 20° 7 | 11°38 | 18° 8 | 13°25 | 10°30 | 6°24 | 6° 6 | 17°39 | 16°40 | 19°18 | 20°42 | 12°37 | n.a. | F 16 |
| S 17 | 11 24 45 | 23° 7'29 | 3♒55 | 12°35 | 19°21 | 13°57 | 10°27 | 6°19 | 6° 9 | 17°41 | 16°41 | 19°13 | 20°38 | 12°44 | n.a. | S 17 |
| S 18 | 11 28 42 | 24° 6'06 | 18°12 | 13°26 | 20°34 | 14°29 | 10°24 | 6°15 | 6°13 | 17°42 | 16°42 | 19° 5 | 20°35 | 12°51 | n.a. | S 18 |
| M19 | 11 32 38 | 25° 4'40 | 2♓55 | 14°11 | 21°47 | 15° 0 | 10°20 | 6°11 | 6°16 | 17°44 | 16°43 | 18°57 | 20°32 | 12°57 | n.a. | M19 |
| T 20 | 11 36 35 | 26° 3'13 | 17°58 | 14°50 | 23° 0 | 15°32 | 10°17 | 6° 6 | 6°20 | 17°45 | 16°44 | 18°49 | 20°29 | 13° 4 | n.a. | T 20 |
| W21 | 11 40 31 | 27° 1'43 | 3♈10 | 15°23 | 24°12 | 16° 3 | 10°13 | 6° 2 | 6°23 | 17°47 | 16°45 | 18°42 | 20°26 | 13°11 | n.a. | W21 |
| T 22 | 11 44 28 | 28° 0'11 | 18°21 | 15°51 | 25°25 | 16°35 | 10° 9 | 5°58 | 6°26 | 17°48 | 16°46 | 18°37 | 20°22 | 13°17 | n.a. | T 22 |
| F 23 | 11 48 25 | 28°58'38 | 3♉22 | 16°12 | 26°38 | 17° 6 | 10° 5 | 5°54 | 6°30 | 17°50 | 16°47 | 18°34 | 20°19 | 13°24 | n.a. | F 23 |
| S 24 | 11 52 21 | 29°57'02 | 18° 5 | 16°27 | 27°51 | 17°37 | 10° 1 | 5°50 | 6°33 | 17°51 | 16°48 | 18°D33 | 20°16 | 13°31 | n.a. | S 24 |
| S 25 | 11 56 18 | 0♈55'24 | 2♊25 | 16°36 | 29° 3 | 18° 7 | 9°57 | 5°46 | 6°37 | 17°53 | 16°49 | 18°33 | 20°13 | 13°37 | n.a. | S 25 |
| M26 | 12 0 14 | 1°53'45 | 16°20 | 16°R39 | 0♉16 | 18°38 | 9°52 | 5°42 | 6°40 | 17°55 | 16°50 | 18°34 | 20°10 | 13°44 | n.a. | M26 |
| T 27 | 12 4 11 | 2°52'02 | 29°51 | 16°36 | 1°28 | 19° 8 | 9°48 | 5°38 | 6°44 | 17°56 | 16°51 | 18°R35 | 20° 7 | 13°51 | n.a. | T 27 |
| W28 | 12 8 7 | 3°50'18 | 13♋ 0 | 16°28 | 2°41 | 19°38 | 9°43 | 5°34 | 6°47 | 17°58 | 16°52 | 18°35 | 20° 3 | 13°57 | n.a. | W28 |
| T 29 | 12 12 4 | 4°48'32 | 25°49 | 16°15 | 3°53 | 20° 8 | 9°38 | 5°30 | 6°50 | 18° 0 | 16°53 | 18°33 | 20° 0 | 14° 4 | n.a. | T 29 |
| F 30 | 12 16 0 | 5°46'43 | 8♌23 | 15°57 | 5° 5 | 20°38 | 9°33 | 5°27 | 6°54 | 18° 2 | 16°54 | 18°29 | 19°57 | 14°11 | n.a. | F 30 |
| S 31 | 12 19 57 | 6♈44'52 | 20♌43 | 15♈35 | 6♉18 | 21♐ 7 | 9♏28 | 5♍23 | 6♈57 | 18♉ 3 | 16♉55 | 18♉23 | 19♉54 | 14♎17 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| T 1 | 8s53 | 26n50 | 4n 8 | 4s51 | 0s 0 | 0s44 | 0s42 | 20s59 | 0n25 | 14s 8 | 1n10 | 11n11 | 2n32 | 1n33 | 0s37 | 15n36 | 1s41 | 7n25 | 9s57 | 18n 9 | 18n20 | 1s18 | | | n.a. |
| F 2 | 8 30 | 25 12 | 4 40 | 3 54 | 0n11 | 0 12 | 0 40 | 21 6 | 0 24 | 14 8 | 1 10 | 11 12 | 2 32 | 1 35 | 0 37 | 15 36 | 1 41 | 7 25 | 9 57 | 18 7 | 18 19 | 1 22 | | | n.a. |
| S 3 | 8 8 | 22 21 | 4 58 | 2 57 | 0 23 | 0n20 | 0 38 | 21 13 | 0 23 | 14 8 | 1 10 | 11 14 | 2 32 | 1 36 | 0 37 | 15 36 | 1 40 | 7 25 | 9 57 | 18 4 | 18 18 | 1 25 | | | n.a. |
| S 4 | 7 45 | 18 30 | 5 1 | 2 0 | 0 35 | 0 51 | 0 35 | 21 20 | 0 22 | 14 8 | 1 11 | 11 16 | 2 32 | 1 37 | 0 37 | 15 37 | 1 40 | 7 26 | 9 56 | 18 1 | 18 18 | 1 28 | | | n.a. |
| M 5 | 7 23 | 13 57 | 4 50 | 1 4 | 0 47 | 1 23 | 0 33 | 21 27 | 0 20 | 14 7 | 1 11 | 11 18 | 2 32 | 1 38 | 0 37 | 15 37 | 1 40 | 7 26 | 9 56 | 17 57 | 18 17 | 1 31 | | | n.a. |
| T 6 | 7 0 | 8 54 | 4 27 | 0 10 | 0 59 | 1 55 | 0 30 | 21 34 | 0 19 | 14 7 | 1 11 | 11 20 | 2 32 | 1 40 | 0 37 | 15 37 | 1 40 | 7 27 | 9 56 | 17 54 | 18 16 | 1 35 | | | n.a. |
| W 7 | 6 37 | 3 34 | 3 51 | 0n44 | 1 11 | 2 26 | 0 28 | 21 41 | 0 18 | 14 7 | 1 11 | 11 21 | 2 32 | 1 41 | 0 37 | 15 38 | 1 40 | 7 27 | 9 56 | 17 51 | 18 15 | 1 38 | | | n.a. |
| T 8 | 6 14 | 1s51 | 3 6 | 1 36 | 1 23 | 2 58 | 0 25 | 21 47 | 0 16 | 14 6 | 1 11 | 11 23 | 2 32 | 1 42 | 0 37 | 15 38 | 1 40 | 7 27 | 9 55 | 17 49 | 18 14 | 1 41 | | | n.a. |
| F 9 | 5 52 | 7 12 | 2 13 | 2 26 | 1 34 | 3 30 | 0 23 | 21 54 | 0 15 | 14 5 | 1 11 | 11 25 | 2 32 | 1 44 | 0 37 | 15 39 | 1 40 | 7 28 | 9 55 | 17 47 | 18 13 | 1 44 | | | n.a. |
| S 10 | 5 28 | 12 18 | 1 14 | 3 14 | 1 46 | 4 1 | 0 20 | 22 0 | 0 13 | 14 5 | 1 11 | 11 27 | 2 32 | 1 45 | 0 37 | 15 39 | 1 40 | 7 28 | 9 55 | 17 46 | 18 13 | 1 48 | | | n.a. |
| S 11 | 5 5 | 16 59 | 0 11 | 3 59 | 1 57 | 4 32 | 0 18 | 22 6 | 0 12 | 14 4 | 1 11 | 11 28 | 2 32 | 1 46 | 0 37 | 15 39 | 1 40 | 7 29 | 9 55 | 17 46 | 18 12 | 1 51 | | | n.a. |
| M12 | 4 42 | 21 4 | 0s53 | 4 43 | 2 7 | 5 4 | 0 15 | 22 12 | 0 11 | 14 3 | 1 11 | 11 30 | 2 32 | 1 48 | 0 37 | 15 40 | 1 40 | 7 29 | 9 54 | 17 46 | 18 11 | 1 54 | | | n.a. |
| T 13 | 4 19 | 24 18 | 1 55 | 5 23 | 2 17 | 5 35 | 0 12 | 22 18 | 0 9 | 14 3 | 1 12 | 11 32 | 2 32 | 1 49 | 0 37 | 15 40 | 1 40 | 7 30 | 9 54 | 17 46 | 18 10 | 1 57 | | | n.a. |
| W14 | 3 56 | 26 28 | 2 54 | 6 1 | 2 26 | 6 6 | 0 9 | 22 24 | 0 8 | 14 2 | 1 12 | 11 33 | 2 32 | 1 50 | 0 37 | 15 41 | 1 40 | 7 30 | 9 54 | 17 46 | 18 9 | 2 1 | | | n.a. |
| T 15 | 3 32 | 27 17 | 3 46 | 6 36 | 2 35 | 6 37 | 0 7 | 22 30 | 0 6 | 14 1 | 1 12 | 11 35 | 2 32 | 1 52 | 0 37 | 15 41 | 1 40 | 7 30 | 9 54 | 17 46 | 18 8 | 2 4 | | | n.a. |
| F 16 | 3 9 | 26 35 | 4 27 | 7 8 | 2 43 | 7 8 | 0 4 | 22 35 | 0 4 | 14 0 | 1 12 | 11 37 | 2 32 | 1 53 | 0 37 | 15 42 | 1 40 | 7 31 | 9 54 | 17 45 | 18 7 | 2 7 | | | n.a. |
| S 17 | 2 46 | 24 16 | 4 55 | 7 37 | 2 50 | 7 38 | 0 1 | 22 41 | 0 3 | 13 59 | 1 12 | 11 38 | 2 32 | 1 54 | 0 37 | 15 42 | 1 40 | 7 31 | 9 53 | 17 43 | 18 7 | 2 10 | | | n.a. |
| S 18 | 2 22 | 20 23 | 5 6 | 8 3 | 2 56 | 8 9 | 0n 2 | 22 46 | 0 1 | 13 58 | 1 12 | 11 40 | 2 32 | 1 56 | 0 37 | 15 42 | 1 40 | 7 32 | 9 53 | 17 41 | 18 6 | 2 14 | | | n.a. |
| M19 | 1 59 | 15 9 | 4 57 | 8 25 | 3 1 | 8 39 | 0 5 | 22 52 | 0s 0 | 13 57 | 1 12 | 11 41 | 2 32 | 1 57 | 0 37 | 15 43 | 1 40 | 7 32 | 9 53 | 17 39 | 18 5 | 2 17 | | | n.a. |
| T 20 | 1 35 | 8 54 | 4 28 | 8 44 | 3 4 | 9 9 | 0 7 | 22 57 | 0 2 | 13 55 | 1 12 | 11 43 | 2 32 | 1 59 | 0 37 | 15 43 | 1 40 | 7 33 | 9 53 | 17 37 | 18 4 | 2 20 | | | n.a. |
| W21 | 1 12 | 2 5 | 3 39 | 9 0 | 3 7 | 9 39 | 0 10 | 23 2 | 0 4 | 13 54 | 1 12 | 11 44 | 2 31 | 2 0 | 0 37 | 15 44 | 1 39 | 7 33 | 9 53 | 17 35 | 18 3 | 2 23 | | | n.a. |
| T 22 | 0 48 | 4n53 | 2 35 | 9 12 | 3 9 | 10 8 | 0 13 | 23 7 | 0 6 | 13 53 | 1 12 | 11 46 | 2 31 | 2 1 | 0 37 | 15 44 | 1 39 | 7 34 | 9 52 | 17 33 | 18 2 | 2 27 | | | n.a. |
| F 23 | 0 25 | 11 31 | 1 21 | 9 21 | 3 10 | 10 38 | 0 16 | 23 12 | 0 7 | 13 52 | 1 12 | 11 47 | 2 31 | 2 3 | 0 37 | 15 45 | 1 39 | 7 34 | 9 52 | 17 32 | 18 2 | 2 30 | | | n.a. |
| S 24 | 0 1 | 17 22 | 0 2 | 9 26 | 3 9 | 11 7 | 0 19 | 23 17 | 0 9 | 13 50 | 1 13 | 11 49 | 2 31 | 2 4 | 0 37 | 15 45 | 1 39 | 7 35 | 9 52 | 17 32 | 18 1 | 2 33 | | | n.a. |
| S 25 | 0n22 | 22 5 | 1n14 | 9 28 | 3 7 | 11 36 | 0 22 | 23 21 | 0 11 | 13 49 | 1 13 | 11 50 | 2 31 | 2 5 | 0 37 | 15 46 | 1 39 | 7 35 | 9 52 | 17 32 | 18 0 | 2 36 | | | n.a. |
| M26 | 0 46 | 25 23 | 2 24 | 9 26 | 3 3 | 12 4 | 0 25 | 23 26 | 0 13 | 13 47 | 1 13 | 11 52 | 2 31 | 2 7 | 0 37 | 15 46 | 1 39 | 7 35 | 9 52 | 17 33 | 17 59 | 2 40 | | | n.a. |
| T 27 | 1 9 | 27 7 | 3 24 | 9 20 | 2 59 | 12 33 | 0 28 | 23 30 | 0 15 | 13 46 | 1 13 | 11 53 | 2 31 | 2 8 | 0 37 | 15 47 | 1 39 | 7 36 | 9 51 | 17 33 | 17 58 | 2 43 | | | n.a. |
| W28 | 1 33 | 27 14 | 4 12 | 9 12 | 2 52 | 13 1 | 0 30 | 23 35 | 0 17 | 13 44 | 1 13 | 11 54 | 2 31 | 2 10 | 0 37 | 15 47 | 1 39 | 7 36 | 9 51 | 17 33 | 17 57 | 2 46 | | | n.a. |
| T 29 | 1 56 | 25 53 | 4 45 | 9 0 | 2 45 | 13 29 | 0 33 | 23 39 | 0 19 | 13 43 | 1 13 | 11 56 | 2 31 | 2 11 | 0 37 | 15 48 | 1 39 | 7 37 | 9 51 | 17 32 | 17 56 | 2 49 | | | n.a. |
| F 30 | 2 19 | 23 16 | 5 4 | 8 45 | 2 36 | 13 56 | 0 36 | 23 43 | 0 21 | 13 41 | 1 13 | 11 57 | 2 31 | 2 12 | 0 37 | 15 48 | 1 39 | 7 37 | 9 51 | 17 31 | 17 55 | 2 53 | | | n.a. |
| S 31 | 2n42 | 19n37 | 5n 9 | 8n26 | 2n26 | 14n23 | 0n39 | 23s47 | 0s23 | 13s39 | 1n13 | 11n58 | 2n31 | 2n14 | 0s37 | 15n49 | 1s39 | 7n38 | 9s51 | 17n30 | 17n55 | 2s56 | | | n.a. |

Julian Day Number = 1691531.5, Delta T = 03h10m13s
Ecliptic obliquity = 23°42'24, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°11'40, Lahiri = - 5°04'40 Julian Calendar 1 March 82 BCE == Greg. Calendar 27 Feb. 082 BCE

The year -81 astronomical counting style corresponds to year 082 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 82 BCE
# geocentric

## APRIL 82 BCE (-81) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 23 54 | 7♈43'00 | 2♍53 | 15°R 8 | 7♉30 | 21♐37 | 9°R22 | 5°R20 | 7♈ 1 | 18♉ 5 | 16♉56 | 18°R16 | 19♉51 | 14♎24 | n.a. | S 1 |
| M 2 | 12 27 50 | 8°41'05 | 14°55 | 14♈39 | 8°42 | 22° 6 | 9♏17 | 5♍16 | 7° 4 | 18° 7 | 16°57 | 18♉ 9 | 19°48 | 14°31 | n.a. | M 2 |
| T 3 | 12 31 47 | 9°39'08 | 26°51 | 14° 6 | 9°54 | 22°35 | 9°11 | 5°13 | 7° 8 | 18° 9 | 16°58 | 18° 2 | 19°44 | 14°37 | n.a. | T 3 |
| W 4 | 12 35 43 | 10°37'10 | 8♎42 | 13°31 | 11° 6 | 23° 3 | 9° 5 | 5° 9 | 7°11 | 18°11 | 17° 0 | 17°55 | 19°41 | 14°44 | n.a. | W 4 |
| T 5 | 12 39 40 | 11°35'09 | 20°32 | 12°54 | 12°18 | 23°32 | 9° 0 | 5° 6 | 7°14 | 18°12 | 17° 1 | 17°51 | 19°38 | 14°51 | n.a. | T 5 |
| F 6 | 12 43 36 | 12°33'08 | 2♏21 | 12°16 | 13°30 | 24° 0 | 8°54 | 5° 3 | 7°18 | 18°14 | 17° 2 | 17°48 | 19°35 | 14°57 | n.a. | F 6 |
| S 7 | 12 47 33 | 13°31'04 | 14°12 | 11°38 | 14°42 | 24°28 | 8°47 | 5° 0 | 7°21 | 18°16 | 17° 3 | 17°D47 | 19°32 | 15° 4 | n.a. | S 7 |
| S 8 | 12 51 29 | 14°28'59 | 26° 7 | 11° 1 | 15°54 | 24°55 | 8°41 | 4°57 | 7°25 | 18°18 | 17° 4 | 17°47 | 19°28 | 15°11 | n.a. | S 8 |
| M 9 | 12 55 26 | 15°26'53 | 8♐11 | 10°24 | 17° 6 | 25°23 | 8°35 | 4°54 | 7°28 | 18°20 | 17° 5 | 17°48 | 19°25 | 15°17 | n.a. | M 9 |
| T 10 | 12 59 22 | 16°24'45 | 20°26 | 9°49 | 18°17 | 25°50 | 8°28 | 4°51 | 7°32 | 18°22 | 17° 7 | 17°50 | 19°22 | 15°24 | n.a. | T 10 |
| W11 | 13 3 19 | 17°22'36 | 2♑57 | 9°17 | 19°29 | 26°17 | 8°22 | 4°48 | 7°35 | 18°24 | 17° 8 | 17°51 | 19°19 | 15°31 | n.a. | W11 |
| T 12 | 13 7 16 | 18°20'26 | 15°48 | 8°47 | 20°41 | 26°43 | 8°15 | 4°45 | 7°38 | 18°26 | 17° 9 | 17°R52 | 19°16 | 15°37 | n.a. | T 12 |
| F 13 | 13 11 12 | 19°18'14 | 29° 2 | 8°20 | 21°52 | 27° 9 | 8° 8 | 4°42 | 7°42 | 18°28 | 17°10 | 17°52 | 19°13 | 15°44 | n.a. | F 13 |
| S 14 | 13 15 9 | 20°16'01 | 12♒43 | 7°57 | 23° 4 | 27°35 | 8° 1 | 4°40 | 7°45 | 18°30 | 17°12 | 17°50 | 19° 9 | 15°51 | n.a. | S 14 |
| S 15 | 13 19 5 | 21°13'47 | 26°51 | 7°38 | 24°15 | 28° 1 | 7°54 | 4°37 | 7°49 | 18°32 | 17°13 | 17°47 | 19° 6 | 15°57 | n.a. | S 15 |
| M16 | 13 23 2 | 22°11'31 | 11♓24 | 7°23 | 25°26 | 28°26 | 7°47 | 4°35 | 7°52 | 18°34 | 17°14 | 17°44 | 19° 3 | 16° 4 | n.a. | M16 |
| T 17 | 13 26 58 | 23° 9'14 | 26°19 | 7°12 | 26°38 | 28°51 | 7°40 | 4°33 | 7°55 | 18°36 | 17°15 | 17°41 | 19° 0 | 16°11 | n.a. | T 17 |
| W18 | 13 30 55 | 24° 6'56 | 11♈27 | 7° 5 | 27°49 | 29°16 | 7°33 | 4°30 | 7°59 | 18°38 | 17°17 | 17°38 | 18°57 | 16°17 | n.a. | W18 |
| T 19 | 13 34 51 | 25° 4'37 | 26°40 | 7°D 4 | 29° 0 | 29°40 | 7°26 | 4°28 | 8° 2 | 18°40 | 17°18 | 17°36 | 18°53 | 16°24 | n.a. | T 19 |
| F 20 | 13 38 48 | 26° 2'16 | 11♉47 | 7° 6 | 0♊11 | 0♑ 4 | 7°19 | 4°26 | 8° 5 | 18°42 | 17°19 | 17°D35 | 18°50 | 16°31 | n.a. | F 20 |
| S 21 | 13 42 45 | 26°59'54 | 26°40 | 7°14 | 1°22 | 0°28 | 7°11 | 4°24 | 8° 9 | 18°44 | 17°21 | 17°35 | 18°47 | 16°37 | n.a. | S 21 |
| S 22 | 13 46 41 | 27°57'30 | 11♊12 | 7°26 | 2°33 | 0°51 | 7° 4 | 4°23 | 8°12 | 18°47 | 17°22 | 17°36 | 18°44 | 16°44 | n.a. | S 22 |
| M23 | 13 50 38 | 28°55'05 | 25°18 | 7°42 | 3°44 | 1°14 | 6°56 | 4°21 | 8°15 | 18°49 | 17°23 | 17°37 | 18°41 | 16°51 | n.a. | M23 |
| T 24 | 13 54 34 | 29°52'39 | 8♋59 | 8° 3 | 4°55 | 1°36 | 6°49 | 4°19 | 8°19 | 18°51 | 17°25 | 17°38 | 18°38 | 16°57 | n.a. | T 24 |
| W25 | 13 58 31 | 0♉50'11 | 22°13 | 8°28 | 6° 6 | 1°58 | 6°41 | 4°18 | 8°22 | 18°53 | 17°26 | 17°39 | 18°34 | 17° 4 | n.a. | W25 |
| T 26 | 14 2 27 | 1°47'41 | 5♌ 4 | 8°57 | 7°16 | 2°20 | 6°34 | 4°16 | 8°25 | 18°55 | 17°27 | 17°R39 | 18°31 | 17°11 | n.a. | T 26 |
| F 27 | 14 6 24 | 2°45'10 | 17°36 | 9°30 | 8°27 | 2°41 | 6°26 | 4°15 | 8°28 | 18°57 | 17°29 | 17°39 | 18°28 | 17°17 | n.a. | F 27 |
| S 28 | 14 10 20 | 3°42'37 | 29°52 | 10° 8 | 9°37 | 3° 2 | 6°19 | 4°13 | 8°31 | 18°59 | 17°30 | 17°38 | 18°25 | 17°24 | n.a. | S 28 |
| S 29 | 14 14 17 | 4°40'03 | 11♍56 | 10°49 | 10°48 | 3°22 | 6°11 | 4°12 | 8°35 | 19° 2 | 17°31 | 17°36 | 18°22 | 17°31 | n.a. | S 29 |
| M30 | 14 18 14 | 5♉37'28 | 23♍52 | 11♈34 | 11♊58 | 3♑42 | 6♏ 3 | 4♍11 | 8♈38 | 19♉ 4 | 17♉33 | 17♉34 | 18♉19 | 17♎37 | n.a. | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 3n 6 | 15n12 | 4n59 | 8n 6 | 2n15 | 14n50 | 0n42 | 23s51 | 0s25 | 13s37 | 1n13 | 12n 0 | 2n31 | 2n15 | 0s37 | 15n50 | 1s39 | 7n38 | 9s50 | 17n28 | 17n54 | 2s59 | | n.a. |
| M 2 | 3 29 | 10 15 | 4 36 | 7 42 | 2 2 | 15 16 | 0 45 | 23 55 | 0 27 | 13 36 | 1 13 | 12 1 | 2 30 | 2 16 | 0 37 | 15 50 | 1 39 | 7 39 | 9 50 | 17 26 | 17 53 | 3 2 | | n.a. |
| T 3 | 3 52 | 4 57 | 4 2 | 7 17 | 1 49 | 15 42 | 0 48 | 23 59 | 0 29 | 13 34 | 1 13 | 12 2 | 2 30 | 2 18 | 0 37 | 15 51 | 1 39 | 7 39 | 9 50 | 17 24 | 17 52 | 3 6 | | n.a. |
| W 4 | 4 15 | 0s29 | 3 17 | 6 50 | 1 34 | 16 8 | 0 51 | 24 3 | 0 31 | 13 32 | 1 13 | 12 3 | 2 30 | 2 19 | 0 37 | 15 51 | 1 39 | 7 40 | 9 50 | 17 22 | 17 51 | 3 9 | | n.a. |
| T 5 | 4 38 | 5 54 | 2 23 | 6 21 | 1 19 | 16 33 | 0 53 | 24 6 | 0 34 | 13 30 | 1 13 | 12 4 | 2 30 | 2 21 | 0 37 | 15 52 | 1 39 | 7 40 | 9 50 | 17 20 | 17 50 | 3 12 | | n.a. |
| F 6 | 5 1 | 11 7 | 1 23 | 5 52 | 1 3 | 16 58 | 0 56 | 24 10 | 0 36 | 13 28 | 1 13 | 12 5 | 2 30 | 2 22 | 0 37 | 15 52 | 1 39 | 7 41 | 9 50 | 17 20 | 17 49 | 3 16 | | n.a. |
| S 7 | 5 24 | 15 58 | 0 20 | 5 22 | 0 46 | 17 22 | 0 59 | 24 14 | 0 38 | 13 26 | 1 13 | 12 6 | 2 30 | 2 23 | 0 37 | 15 53 | 1 39 | 7 41 | 9 49 | 17 19 | 17 49 | 3 19 | | n.a. |
| S 8 | 5 46 | 20 14 | 0s46 | 4 51 | 0 30 | 17 46 | 1 2 | 24 17 | 0 41 | 13 24 | 1 13 | 12 7 | 2 30 | 2 25 | 0 37 | 15 53 | 1 39 | 7 42 | 9 49 | 17 19 | 17 48 | 3 22 | | n.a. |
| M 9 | 6 9 | 23 43 | 1 49 | 4 21 | 0 13 | 18 10 | 1 5 | 24 21 | 0 43 | 13 22 | 1 13 | 12 8 | 2 30 | 2 26 | 0 37 | 15 54 | 1 39 | 7 42 | 9 49 | 17 20 | 17 47 | 3 25 | | n.a. |
| T 10 | 6 31 | 26 10 | 2 49 | 3 52 | 0s 5 | 18 33 | 1 7 | 24 24 | 0 46 | 13 20 | 1 13 | 12 9 | 2 29 | 2 27 | 0 37 | 15 55 | 1 39 | 7 43 | 9 49 | 17 20 | 17 46 | 3 29 | | n.a. |
| W11 | 6 54 | 27 23 | 3 43 | 3 23 | 0 21 | 18 55 | 1 10 | 24 27 | 0 48 | 13 18 | 1 13 | 12 10 | 2 29 | 2 29 | 0 37 | 15 55 | 1 39 | 7 43 | 9 49 | 17 21 | 17 45 | 3 32 | | n.a. |
| T 12 | 7 16 | 27 10 | 4 26 | 2 56 | 0 38 | 19 17 | 1 13 | 24 30 | 0 51 | 13 16 | 1 13 | 12 11 | 2 29 | 2 30 | 0 37 | 15 56 | 1 39 | 7 44 | 9 49 | 17 21 | 17 44 | 3 35 | | n.a. |
| F 13 | 7 38 | 25 25 | 4 57 | 2 31 | 0 54 | 19 39 | 1 15 | 24 34 | 0 53 | 13 13 | 1 13 | 12 12 | 2 29 | 2 31 | 0 37 | 15 56 | 1 38 | 7 44 | 9 49 | 17 21 | 17 43 | 3 38 | | n.a. |
| S 14 | 8 0 | 22 10 | 5 13 | 2 7 | 1 10 | 20 0 | 1 18 | 24 37 | 0 56 | 13 11 | 1 13 | 12 13 | 2 29 | 2 33 | 0 37 | 15 57 | 1 38 | 7 44 | 9 48 | 17 20 | 17 42 | 3 42 | | n.a. |
| S 15 | 8 22 | 17 33 | 5 10 | 1 46 | 1 25 | 20 21 | 1 21 | 24 40 | 0 58 | 13 9 | 1 13 | 12 14 | 2 29 | 2 34 | 0 37 | 15 58 | 1 38 | 7 45 | 9 48 | 17 20 | 17 42 | 3 45 | | n.a. |
| M16 | 8 44 | 11 47 | 4 48 | 1 27 | 1 39 | 20 41 | 1 23 | 24 43 | 1 1 | 13 7 | 1 13 | 12 14 | 2 29 | 2 36 | 0 37 | 15 58 | 1 38 | 7 45 | 9 48 | 17 19 | 17 41 | 3 48 | | n.a. |
| T 17 | 9 6 | 5 14 | 4 6 | 1 10 | 1 52 | 21 0 | 1 26 | 24 46 | 1 4 | 13 4 | 1 13 | 12 15 | 2 28 | 2 37 | 0 37 | 15 59 | 1 38 | 7 46 | 9 48 | 17 18 | 17 40 | 3 51 | | n.a. |
| W18 | 9 27 | 1n44 | 3 6 | 0 56 | 2 5 | 21 19 | 1 28 | 24 49 | 1 7 | 13 2 | 1 13 | 12 16 | 2 28 | 2 38 | 0 37 | 15 59 | 1 38 | 7 46 | 9 48 | 17 17 | 17 39 | 3 55 | | n.a. |
| T 19 | 9 49 | 8 39 | 1 53 | 0 45 | 2 17 | 21 38 | 1 30 | 24 52 | 1 9 | 13 0 | 1 13 | 12 16 | 2 28 | 2 40 | 0 37 | 16 0 | 1 38 | 7 47 | 9 48 | 17 16 | 17 38 | 3 58 | | n.a. |
| F 20 | 10 10 | 15 2 | 0 32 | 0 36 | 2 27 | 21 56 | 1 33 | 24 55 | 1 12 | 12 57 | 1 13 | 12 17 | 2 28 | 2 41 | 0 37 | 16 1 | 1 38 | 7 47 | 9 48 | 17 16 | 17 37 | 4 1 | | n.a. |
| S 21 | 10 31 | 20 26 | 0n50 | 0 30 | 2 37 | 22 13 | 1 35 | 24 58 | 1 15 | 12 55 | 1 13 | 12 17 | 2 28 | 2 42 | 0 37 | 16 1 | 1 38 | 7 48 | 9 48 | 17 16 | 17 36 | 4 4 | | n.a. |
| S 22 | 10 52 | 24 28 | 2 7 | 0 27 | 2 46 | 22 30 | 1 37 | 25 1 | 1 18 | 12 53 | 1 13 | 12 18 | 2 28 | 2 43 | 0 37 | 16 2 | 1 38 | 7 48 | 9 47 | 17 16 | 17 35 | 4 8 | | n.a. |
| M23 | 11 13 | 26 51 | 3 14 | 0 26 | 2 54 | 22 46 | 1 40 | 25 3 | 1 21 | 12 50 | 1 13 | 12 18 | 2 27 | 2 45 | 0 37 | 16 2 | 1 38 | 7 49 | 9 47 | 17 17 | 17 34 | 4 11 | | n.a. |
| T 24 | 11 33 | 27 30 | 4 7 | 0 28 | 3 0 | 23 1 | 1 42 | 25 6 | 1 24 | 12 48 | 1 13 | 12 19 | 2 27 | 2 46 | 0 37 | 16 3 | 1 38 | 7 49 | 9 47 | 17 17 | 17 34 | 4 14 | | n.a. |
| W25 | 11 54 | 26 33 | 4 46 | 0 33 | 3 6 | 23 16 | 1 44 | 25 9 | 1 28 | 12 45 | 1 13 | 12 19 | 2 27 | 2 47 | 0 37 | 16 4 | 1 38 | 7 50 | 9 47 | 17 17 | 17 33 | 4 18 | | n.a. |
| T 26 | 12 14 | 24 12 | 5 9 | 0 40 | 3 11 | 23 30 | 1 46 | 25 12 | 1 31 | 12 43 | 1 13 | 12 20 | 2 27 | 2 49 | 0 37 | 16 4 | 1 38 | 7 50 | 9 47 | 17 17 | 17 32 | 4 21 | | n.a. |
| F 27 | 12 34 | 20 44 | 5 16 | 0 49 | 3 15 | 23 44 | 1 48 | 25 15 | 1 34 | 12 41 | 1 12 | 12 20 | 2 27 | 2 50 | 0 37 | 16 5 | 1 38 | 7 51 | 9 47 | 17 17 | 17 31 | 4 24 | | n.a. |
| S 28 | 12 54 | 16 27 | 5 9 | 1 1 | 3 19 | 23 57 | 1 50 | 25 18 | 1 37 | 12 38 | 1 12 | 12 20 | 2 27 | 2 51 | 0 37 | 16 5 | 1 38 | 7 51 | 9 47 | 17 17 | 17 30 | 4 27 | | n.a. |
| S 29 | 13 13 | 11 35 | 4 48 | 1 15 | 3 21 | 24 9 | 1 52 | 25 20 | 1 41 | 12 36 | 1 12 | 12 21 | 2 26 | 2 52 | 0 37 | 16 6 | 1 38 | 7 51 | 9 47 | 17 16 | 17 29 | 4 31 | | n.a. |
| M30 | 13n33 | 6n21 | 4n15 | 1n32 | 3s22 | 24n21 | 1n54 | 25s23 | 1s44 | 12s33 | 1n12 | 12n21 | 2n26 | 2n54 | 0s37 | 16n 7 | 1s38 | 7n52 | 9s47 | 17n16 | 17n28 | 4s34 | | n.a. |

Julian Day Number = 1691562.5, Delta T = 03h10m13s
Ecliptic obliquity = 23°42'24, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°11'36, Lahiri = - 5°04'35 Julian Calendar 1 Apr. 82 BCE == Greg. Calendar 30 March 082 BCE

The year -81 astronomical counting style corresponds to year 082 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 82 BCE
# geocentric

## MAY 82 BCE (-81) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 22 10 | 6♉34'51 | 5♎43 | 12♈23 | 13♊ 8 | 4♑ 1 | 5°R56 | 4°R10 | 8♈41 | 19♉ 6 | 17♉34 | 17°R33 | 18♉15 | 17♎44 | n.a. | T 1 |
| W 2 | 14 26 7 | 7°32'13 | 17°32 | 13°15 | 14°18 | 4°20 | 5♏48 | 4♍ 9 | 8°44 | 19° 8 | 17°35 | 17♉31 | 18°12 | 17°51 | n.a. | W 2 |
| T 3 | 14 30 3 | 8°29'34 | 29°21 | 14°11 | 15°28 | 4°39 | 5°40 | 4° 8 | 8°47 | 19°10 | 17°37 | 17°30 | 18° 9 | 17°57 | n.a. | T 3 |
| F 4 | 14 34 0 | 9°26'54 | 11♏14 | 15°10 | 16°38 | 4°57 | 5°33 | 4° 8 | 8°50 | 19°13 | 17°38 | 17°30 | 18° 6 | 18° 4 | n.a. | F 4 |
| S 5 | 14 37 56 | 10°24'14 | 23°11 | 16°12 | 17°48 | 5°14 | 5°25 | 4° 7 | 8°53 | 19°15 | 17°40 | 17°D30 | 18° 3 | 18°11 | n.a. | S 5 |
| S 6 | 14 41 53 | 11°21'32 | 5♐16 | 17°18 | 18°58 | 5°31 | 5°18 | 4° 7 | 8°56 | 19°17 | 17°41 | 17°30 | 17°59 | 18°17 | n.a. | S 6 |
| M 7 | 14 45 49 | 12°18'49 | 17°30 | 18°27 | 20° 8 | 5°48 | 5°10 | 4° 6 | 8°59 | 19°19 | 17°42 | 17°31 | 17°56 | 18°24 | n.a. | M 7 |
| T 8 | 14 49 46 | 13°16'06 | 29°56 | 19°39 | 21°17 | 6° 4 | 5° 3 | 4° 6 | 9° 2 | 19°22 | 17°44 | 17°31 | 17°53 | 18°31 | n.a. | T 8 |
| W 9 | 14 53 43 | 14°13'23 | 12♑35 | 20°54 | 22°27 | 6°19 | 4°55 | 4° 6 | 9° 5 | 19°24 | 17°45 | 17°31 | 17°50 | 18°37 | n.a. | W 9 |
| T 10 | 14 57 39 | 15°10'38 | 25°32 | 22°12 | 23°36 | 6°34 | 4°48 | 4°D 6 | 9° 8 | 19°26 | 17°46 | 17°32 | 17°47 | 18°44 | n.a. | T 10 |
| F 11 | 15 1 36 | 16° 7'54 | 8♒47 | 23°33 | 24°46 | 6°49 | 4°40 | 4° 6 | 9°11 | 19°28 | 17°48 | 17°32 | 17°44 | 18°51 | n.a. | F 11 |
| S 12 | 15 5 32 | 17° 5'08 | 22°24 | 24°57 | 25°55 | 7° 2 | 4°33 | 4° 6 | 9°14 | 19°30 | 17°49 | 17°32 | 17°40 | 18°57 | n.a. | S 12 |
| S 13 | 15 9 29 | 18° 2'23 | 6♓21 | 26°24 | 27° 4 | 7°15 | 4°26 | 4° 6 | 9°17 | 19°33 | 17°51 | 17°32 | 17°37 | 19° 4 | n.a. | S 13 |
| M14 | 15 13 25 | 18°59'36 | 20°40 | 27°54 | 28°13 | 7°28 | 4°18 | 4° 6 | 9°20 | 19°35 | 17°52 | 17°32 | 17°34 | 19°11 | n.a. | M14 |
| T 15 | 15 17 22 | 19°56'50 | 5♈18 | 29°27 | 29°22 | 7°40 | 4°11 | 4° 7 | 9°23 | 19°37 | 17°53 | 17°32 | 17°31 | 19°17 | n.a. | T 15 |
| W16 | 15 21 18 | 20°54'03 | 20° 9 | 1♉ 2 | 0♋31 | 7°51 | 4° 4 | 4° 7 | 9°25 | 19°39 | 17°55 | 17°32 | 17°28 | 19°24 | n.a. | W16 |
| T 17 | 15 25 15 | 21°51'16 | 5♉ 8 | 2°41 | 1°39 | 8° 2 | 3°57 | 4° 8 | 9°28 | 19°42 | 17°56 | 17°33 | 17°25 | 19°31 | n.a. | T 17 |
| F 18 | 15 29 12 | 22°48'28 | 20° 6 | 4°22 | 2°48 | 8°11 | 3°50 | 4° 9 | 9°31 | 19°44 | 17°58 | 17°R33 | 17°21 | 19°37 | n.a. | F 18 |
| S 19 | 15 33 8 | 23°45'40 | 4♊55 | 6° 6 | 3°56 | 8°21 | 3°44 | 4° 9 | 9°34 | 19°46 | 17°59 | 17°32 | 17°18 | 19°44 | n.a. | S 19 |
| S 20 | 15 37 5 | 24°42'51 | 19°28 | 7°52 | 5° 5 | 8°29 | 3°37 | 4°10 | 9°36 | 19°48 | 18° 0 | 17°32 | 17°15 | 19°51 | n.a. | S 20 |
| M21 | 15 41 1 | 25°40'02 | 3♋39 | 9°42 | 6°13 | 8°37 | 3°30 | 4°11 | 9°39 | 19°51 | 18° 2 | 17°31 | 17°12 | 19°57 | n.a. | M21 |
| T 22 | 15 44 58 | 26°37'12 | 17°25 | 11°34 | 7°21 | 8°44 | 3°24 | 4°13 | 9°41 | 19°53 | 18° 3 | 17°30 | 17° 9 | 20° 4 | n.a. | T 22 |
| W23 | 15 48 54 | 27°34'22 | 0♌46 | 13°28 | 8°29 | 8°51 | 3°17 | 4°14 | 9°44 | 19°55 | 18° 5 | 17°29 | 17° 5 | 20°11 | n.a. | W23 |
| T 24 | 15 52 51 | 28°31'31 | 13°42 | 15°25 | 9°37 | 8°56 | 3°11 | 4°15 | 9°47 | 19°57 | 18° 6 | 17°28 | 17° 2 | 20°17 | n.a. | T 24 |
| F 25 | 15 56 48 | 29°28'39 | 26°16 | 17°24 | 10°45 | 9° 1 | 3° 5 | 4°16 | 9°49 | 20° 0 | 18° 7 | 17°D28 | 16°59 | 20°24 | n.a. | F 25 |
| S 26 | 16 0 44 | 0♊25'47 | 8♍32 | 19°25 | 11°53 | 9° 6 | 2°59 | 4°18 | 9°52 | 20° 2 | 18° 9 | 17°28 | 16°56 | 20°31 | n.a. | S 26 |
| S 27 | 16 4 41 | 1°22'54 | 20°35 | 21°29 | 13° 0 | 9° 9 | 2°53 | 4°20 | 9°54 | 20° 4 | 18°10 | 17°29 | 16°53 | 20°37 | n.a. | S 27 |
| M28 | 16 8 37 | 2°20'01 | 2♎29 | 23°34 | 14° 7 | 9°12 | 2°47 | 4°21 | 9°56 | 20° 6 | 18°11 | 17°30 | 16°50 | 20°44 | n.a. | M28 |
| T 29 | 16 12 34 | 3°17'07 | 14°18 | 25°41 | 15°15 | 9°14 | 2°41 | 4°23 | 9°59 | 20° 8 | 18°13 | 17°31 | 16°46 | 20°51 | n.a. | T 29 |
| W30 | 16 16 30 | 4°14'13 | 26° 7 | 27°49 | 16°22 | 9°16 | 2°36 | 4°25 | 10° 1 | 20°11 | 18°14 | 17°32 | 16°43 | 20°57 | n.a. | W30 |
| T 31 | 16 20 27 | 5♊11'18 | 7♏59 | 29♉58 | 17♋29 | 9°R16 | 2♏30 | 4♍27 | 10♈ 3 | 20♉13 | 18♉15 | 17♉33 | 16♉40 | 21♎ 4 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 13n52 | 0n56 | 3n31 | 1n50 | 3s23 | 24n32 | 1n55 | 25s26 | 1s48 | 12s31 | 1n12 | 12n21 | 2n26 | 2n55 | 0s37 | 16n 7 | 1s38 | 7n52 | 9s47 | 17n15 | 17n27 | 4s37 | | | n.a. |
| W 2 | 14 11 | 4s31 | 2 39 | 2 11 | 3 23 | 24 42 | 1 57 | 25 29 | 1 51 | 12 28 | 1 12 | 12 21 | 2 26 | 2 56 | 0 37 | 16 8 | 1 38 | 7 53 | 9 47 | 17 15 | 17 27 | 4 40 | | | n.a. |
| T 3 | 14 30 | 9 50 | 1 39 | 2 33 | 3 22 | 24 52 | 1 59 | 25 32 | 1 55 | 12 26 | 1 12 | 12 21 | 2 26 | 2 57 | 0 37 | 16 9 | 1 38 | 7 53 | 9 46 | 17 15 | 17 26 | 4 44 | | | n.a. |
| F 4 | 14 48 | 14 49 | 0 35 | 2 58 | 3 20 | 25 1 | 2 0 | 25 35 | 1 58 | 12 23 | 1 12 | 12 21 | 2 25 | 2 59 | 0 37 | 16 9 | 1 38 | 7 54 | 9 46 | 17 15 | 17 25 | 4 47 | | | n.a. |
| S 5 | 15 6 | 19 17 | 0s32 | 3 25 | 3 17 | 25 9 | 2 2 | 25 38 | 2 2 | 12 21 | 1 12 | 12 21 | 2 25 | 3 0 | 0 37 | 16 10 | 1 38 | 7 54 | 9 46 | 17 15 | 17 24 | 4 50 | | | n.a. |
| S 6 | 15 24 | 23 1 | 1 37 | 3 53 | 3 14 | 25 17 | 2 3 | 25 41 | 2 6 | 12 19 | 1 12 | 12 21 | 2 25 | 3 1 | 0 37 | 16 10 | 1 38 | 7 55 | 9 46 | 17 15 | 17 23 | 4 53 | | | n.a. |
| M 7 | 15 42 | 25 45 | 2 39 | 4 23 | 3 10 | 25 24 | 2 4 | 25 44 | 2 9 | 12 16 | 1 11 | 12 21 | 2 25 | 3 2 | 0 37 | 16 11 | 1 38 | 7 55 | 9 46 | 17 15 | 17 22 | 4 57 | | | n.a. |
| T 8 | 16 0 | 27 17 | 3 34 | 4 54 | 3 6 | 25 30 | 2 5 | 25 47 | 2 13 | 12 14 | 1 11 | 12 21 | 2 25 | 3 3 | 0 37 | 16 12 | 1 38 | 7 55 | 9 46 | 17 15 | 17 21 | 5 0 | | | n.a. |
| W 9 | 16 17 | 27 25 | 4 21 | 5 28 | 3 1 | 25 36 | 2 7 | 25 50 | 2 17 | 12 11 | 1 11 | 12 21 | 2 24 | 3 5 | 0 37 | 16 12 | 1 38 | 7 56 | 9 46 | 17 15 | 17 20 | 5 3 | | | n.a. |
| T 10 | 16 34 | 26 5 | 4 54 | 6 2 | 2 55 | 25 41 | 2 8 | 25 53 | 2 21 | 12 9 | 1 11 | 12 21 | 2 24 | 3 6 | 0 37 | 16 13 | 1 38 | 7 56 | 9 46 | 17 15 | 17 19 | 5 6 | | | n.a. |
| F 11 | 16 51 | 23 18 | 5 14 | 6 38 | 2 49 | 25 45 | 2 9 | 25 57 | 2 25 | 12 7 | 1 11 | 12 21 | 2 24 | 3 7 | 0 37 | 16 13 | 1 38 | 7 57 | 9 46 | 17 15 | 17 18 | 5 10 | | | n.a. |
| S 12 | 17 7 | 19 10 | 5 16 | 7 16 | 2 42 | 25 48 | 2 10 | 26 0 | 2 29 | 12 4 | 1 11 | 12 21 | 2 24 | 3 8 | 0 37 | 16 14 | 1 38 | 7 57 | 9 46 | 17 15 | 17 18 | 5 13 | | | n.a. |
| S 13 | 17 24 | 13 55 | 5 1 | 7 54 | 2 34 | 25 51 | 2 10 | 26 3 | 2 33 | 12 2 | 1 10 | 12 20 | 2 24 | 3 9 | 0 37 | 16 15 | 1 38 | 7 57 | 9 46 | 17 15 | 17 17 | 5 16 | | | n.a. |
| M14 | 17 40 | 7 48 | 4 26 | 8 34 | 2 26 | 25 53 | 2 11 | 26 7 | 2 37 | 12 0 | 1 10 | 12 20 | 2 23 | 3 10 | 0 37 | 16 15 | 1 38 | 7 58 | 9 46 | 17 15 | 17 16 | 5 19 | | | n.a. |
| T 15 | 17 55 | 1 8 | 3 34 | 9 15 | 2 18 | 25 54 | 2 12 | 26 10 | 2 42 | 11 57 | 1 10 | 12 20 | 2 23 | 3 11 | 0 37 | 16 16 | 1 38 | 7 58 | 9 46 | 17 15 | 17 15 | 5 23 | | | n.a. |
| W16 | 18 11 | 5n42 | 2 26 | 9 57 | 2 9 | 25 54 | 2 12 | 26 14 | 2 46 | 11 55 | 1 10 | 12 19 | 2 23 | 3 12 | 0 37 | 16 17 | 1 38 | 7 59 | 9 46 | 17 15 | 17 14 | 5 26 | | | n.a. |
| T 17 | 18 26 | 12 18 | 1 8 | 10 40 | 1 59 | 25 54 | 2 13 | 26 17 | 2 50 | 11 53 | 1 10 | 12 19 | 2 23 | 3 14 | 0 37 | 16 17 | 1 38 | 7 59 | 9 46 | 17 15 | 17 13 | 5 29 | | | n.a. |
| F 18 | 18 41 | 18 11 | 0n14 | 11 24 | 1 50 | 25 53 | 2 13 | 26 21 | 2 54 | 11 51 | 1 10 | 12 18 | 2 23 | 3 15 | 0 37 | 16 18 | 1 38 | 7 59 | 9 46 | 17 15 | 17 12 | 5 32 | | | n.a. |
| S 19 | 18 55 | 22 55 | 1 35 | 12 8 | 1 39 | 25 52 | 2 13 | 26 25 | 2 59 | 11 49 | 1 9 | 12 18 | 2 22 | 3 16 | 0 37 | 16 18 | 1 38 | 8 0 | 9 46 | 17 15 | 17 11 | 5 36 | | | n.a. |
| S 20 | 19 10 | 26 4 | 2 48 | 12 53 | 1 29 | 25 50 | 2 13 | 26 29 | 3 3 | 11 47 | 1 9 | 12 17 | 2 22 | 3 17 | 0 37 | 16 19 | 1 38 | 8 0 | 9 46 | 17 15 | 17 10 | 5 39 | | | n.a. |
| M21 | 19 23 | 27 28 | 3 49 | 13 39 | 1 18 | 25 47 | 2 13 | 26 33 | 3 8 | 11 44 | 1 9 | 12 17 | 2 22 | 3 18 | 0 37 | 16 20 | 1 38 | 8 1 | 9 46 | 17 15 | 17 9 | 5 42 | | | n.a. |
| T 22 | 19 37 | 27 5 | 4 34 | 14 24 | 1 7 | 25 43 | 2 13 | 26 37 | 3 12 | 11 42 | 1 9 | 12 16 | 2 22 | 3 19 | 0 37 | 16 20 | 1 38 | 8 1 | 9 46 | 17 15 | 17 8 | 5 46 | | | n.a. |
| W23 | 19 50 | 25 9 | 5 4 | 15 10 | 0 56 | 25 39 | 2 13 | 26 41 | 3 17 | 11 40 | 1 9 | 12 16 | 2 22 | 3 20 | 0 37 | 16 21 | 1 38 | 8 1 | 9 46 | 17 14 | 17 8 | 5 49 | | | n.a. |
| T 24 | 20 3 | 21 56 | 5 16 | 15 55 | 0 45 | 25 34 | 2 13 | 26 45 | 3 21 | 11 38 | 1 8 | 12 15 | 2 21 | 3 21 | 0 37 | 16 21 | 1 38 | 8 2 | 9 46 | 17 14 | 17 7 | 5 52 | | | n.a. |
| F 25 | 20 16 | 17 48 | 5 13 | 16 41 | 0 34 | 25 28 | 2 12 | 26 49 | 3 26 | 11 37 | 1 8 | 12 14 | 2 21 | 3 22 | 0 37 | 16 22 | 1 38 | 8 2 | 9 46 | 17 14 | 17 6 | 5 55 | | | n.a. |
| S 26 | 20 28 | 13 1 | 4 56 | 17 25 | 0 22 | 25 22 | 2 12 | 26 54 | 3 31 | 11 35 | 1 8 | 12 13 | 2 21 | 3 23 | 0 37 | 16 23 | 1 38 | 8 3 | 9 46 | 17 14 | 17 5 | 5 59 | | | n.a. |
| S 27 | 20 40 | 7 50 | 4 26 | 18 9 | 0 11 | 25 14 | 2 11 | 26 58 | 3 35 | 11 33 | 1 8 | 12 13 | 2 21 | 3 24 | 0 37 | 16 23 | 1 38 | 8 3 | 9 46 | 17 14 | 17 4 | 6 2 | | | n.a. |
| M28 | 20 52 | 2 26 | 3 44 | 18 52 | 0 0 | 25 7 | 2 11 | 27 3 | 3 40 | 11 31 | 1 8 | 12 12 | 2 21 | 3 25 | 0 37 | 16 24 | 1 38 | 8 3 | 9 46 | 17 14 | 17 3 | 6 5 | | | n.a. |
| T 29 | 21 3 | 3s 2 | 2 54 | 19 34 | 0n11 | 24 58 | 2 10 | 27 7 | 3 45 | 11 29 | 1 7 | 12 11 | 2 20 | 3 26 | 0 37 | 16 24 | 1 38 | 8 4 | 9 46 | 17 15 | 17 2 | 6 8 | | | n.a. |
| W30 | 21 14 | 8 24 | 1 56 | 20 14 | 0 21 | 24 49 | 2 9 | 27 12 | 3 50 | 11 28 | 1 7 | 12 10 | 2 20 | 3 26 | 0 37 | 16 25 | 1 38 | 8 4 | 9 46 | 17 15 | 17 1 | 6 12 | | | n.a. |
| T 31 | 21n24 | 13s30 | 0n53 | 20n53 | 0n32 | 24n40 | 2n 8 | 27s17 | 3s54 | 11s26 | 1n 7 | 12n 9 | 2n20 | 3n27 | 0s37 | 16n25 | 1s38 | 8n 4 | 9s46 | 17n16 | 17n 0 | 6s15 | | | n.a. |

Julian Day Number = 1691592.5, Delta T = 03h10m12s
Ecliptic obliquity = 23°42'24, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°11'32, Lahiri = - 5°04'31 Julian Calendar 1 May 82 BCE == Greg. Calendar 29 Apr. 082 BCE

The year -81 astronomical counting style corresponds to year 082 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 82 BCE
# geocentric

## JUNE 82 BCE (-81) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 16 24 23 | 6♊ 8'24 | 19♏57 | 2♊ 7 | 18♋35 | 9°R16 | 2°R25 | 4♍29 | 10♈ 6 | 20♉15 | 18♉17 | 17°R33 | 16♉37 | 21♎11 | n.a. | F 1 |
| S 2 | 16 28 20 | 7° 5'29 | 2♐ 5 | 4°18 | 19°42 | 9♑15 | 2♏20 | 4°31 | 10° 8 | 20°17 | 18°18 | 17♉33 | 16°34 | 21°17 | n.a. | S 2 |
| S 3 | 16 32 17 | 8° 2'35 | 14°23 | 6°28 | 20°48 | 9°14 | 2°15 | 4°33 | 10°10 | 20°19 | 18°19 | 17°31 | 16°30 | 21°24 | n.a. | S 3 |
| M 4 | 16 36 13 | 8°59'40 | 26°53 | 8°39 | 21°55 | 9°11 | 2°10 | 4°36 | 10°12 | 20°21 | 18°21 | 17°29 | 16°27 | 21°31 | n.a. | M 4 |
| T 5 | 16 40 10 | 9°56'46 | 9♑36 | 10°49 | 23° 1 | 9° 8 | 2° 5 | 4°38 | 10°14 | 20°24 | 18°22 | 17°26 | 16°24 | 21°37 | n.a. | T 5 |
| W 6 | 16 44 6 | 10°53'52 | 22°33 | 12°58 | 24° 7 | 9° 4 | 2° 1 | 4°41 | 10°16 | 20°26 | 18°23 | 17°22 | 16°21 | 21°44 | n.a. | W 6 |
| T 7 | 16 48 3 | 11°50'58 | 5♒43 | 15° 7 | 25°12 | 8°59 | 1°56 | 4°43 | 10°18 | 20°28 | 18°25 | 17°19 | 16°18 | 21°51 | n.a. | T 7 |
| F 8 | 16 51 59 | 12°48'05 | 19° 9 | 17°14 | 26°18 | 8°54 | 1°52 | 4°46 | 10°20 | 20°30 | 18°26 | 17°16 | 16°15 | 21°57 | n.a. | F 8 |
| S 9 | 16 55 56 | 13°45'12 | 2♓48 | 19°21 | 27°23 | 8°48 | 1°48 | 4°49 | 10°22 | 20°32 | 18°27 | 17°15 | 16°11 | 22° 4 | n.a. | S 9 |
| S 10 | 16 59 52 | 14°42'19 | 16°42 | 21°26 | 28°28 | 8°41 | 1°44 | 4°52 | 10°24 | 20°34 | 18°28 | 17°D14 | 16° 8 | 22°11 | n.a. | S 10 |
| M11 | 17 3 49 | 15°39'27 | 0♈50 | 23°30 | 29°33 | 8°33 | 1°40 | 4°55 | 10°26 | 20°36 | 18°30 | 17°15 | 16° 5 | 22°17 | n.a. | M11 |
| T 12 | 17 7 46 | 16°36'36 | 15°10 | 25°32 | 0♌38 | 8°25 | 1°36 | 4°58 | 10°28 | 20°38 | 18°31 | 17°16 | 16° 2 | 22°24 | n.a. | T 12 |
| W13 | 17 11 42 | 17°33'45 | 29°40 | 27°32 | 1°43 | 8°16 | 1°33 | 5° 1 | 10°30 | 20°40 | 18°32 | 17°18 | 15°59 | 22°31 | n.a. | W13 |
| T 14 | 17 15 39 | 18°30'55 | 14♉15 | 29°31 | 2°47 | 8° 6 | 1°30 | 5° 4 | 10°32 | 20°42 | 18°33 | 17°R18 | 15°56 | 22°37 | n.a. | T 14 |
| F 15 | 17 19 35 | 19°28'05 | 28°52 | 1♋28 | 3°51 | 7°56 | 1°27 | 5° 8 | 10°33 | 20°44 | 18°35 | 17°18 | 15°52 | 22°44 | n.a. | F 15 |
| S 16 | 17 23 32 | 20°25'16 | 13♊24 | 3°24 | 4°55 | 7°45 | 1°24 | 5°11 | 10°35 | 20°46 | 18°36 | 17°16 | 15°49 | 22°51 | n.a. | S 16 |
| S 17 | 17 27 28 | 21°22'28 | 27°45 | 5°17 | 5°59 | 7°33 | 1°21 | 5°15 | 10°37 | 20°48 | 18°37 | 17°12 | 15°46 | 22°57 | n.a. | S 17 |
| M18 | 17 31 25 | 22°19'40 | 11♋49 | 7° 9 | 7° 3 | 7°21 | 1°18 | 5°18 | 10°38 | 20°50 | 18°38 | 17° 8 | 15°43 | 23° 4 | n.a. | M18 |
| T 19 | 17 35 22 | 23°16'53 | 25°33 | 8°59 | 8° 6 | 7° 9 | 1°16 | 5°22 | 10°40 | 20°52 | 18°40 | 17° 2 | 15°40 | 23°10 | n.a. | T 19 |
| W20 | 17 39 18 | 24°14'05 | 8♌53 | 10°47 | 9° 9 | 6°55 | 1°14 | 5°26 | 10°41 | 20°54 | 18°41 | 16°56 | 15°37 | 23°17 | n.a. | W20 |
| T 21 | 17 43 15 | 25°11'19 | 21°51 | 12°33 | 10°12 | 6°42 | 1°12 | 5°30 | 10°43 | 20°56 | 18°42 | 16°51 | 15°33 | 23°24 | n.a. | T 21 |
| F 22 | 17 47 11 | 26° 8'32 | 4♍27 | 14°17 | 11°14 | 6°28 | 1°10 | 5°34 | 10°44 | 20°58 | 18°43 | 16°48 | 15°30 | 23°30 | n.a. | F 22 |
| S 23 | 17 51 8 | 27° 5'46 | 16°44 | 16° 0 | 12°17 | 6°13 | 1° 8 | 5°38 | 10°45 | 21° 0 | 18°44 | 16°45 | 15°27 | 23°37 | n.a. | S 23 |
| S 24 | 17 55 4 | 28° 3'00 | 28°47 | 17°41 | 13°19 | 5°58 | 1° 7 | 5°42 | 10°47 | 21° 2 | 18°45 | 16°D45 | 15°24 | 23°44 | n.a. | S 24 |
| M25 | 17 59 1 | 29° 0'15 | 10♎41 | 19°20 | 14°20 | 5°43 | 1° 5 | 5°46 | 10°48 | 21° 4 | 18°46 | 16°46 | 15°21 | 23°50 | n.a. | M25 |
| T 26 | 18 2 57 | 29°57'30 | 22°30 | 20°57 | 15°22 | 5°28 | 1° 4 | 5°50 | 10°49 | 21° 6 | 18°47 | 16°47 | 15°17 | 23°57 | n.a. | T 26 |
| W27 | 18 6 54 | 0♋54'46 | 4♏20 | 22°32 | 16°23 | 5°12 | 1° 3 | 5°54 | 10°50 | 21° 7 | 18°49 | 16°48 | 15°14 | 24° 4 | n.a. | W27 |
| T 28 | 18 10 51 | 1°52'02 | 16°15 | 24° 6 | 17°24 | 4°57 | 1° 3 | 5°59 | 10°51 | 21° 9 | 18°50 | 16°R49 | 15°11 | 24°10 | n.a. | T 28 |
| F 29 | 18 14 47 | 2°49'19 | 28°20 | 25°37 | 18°24 | 4°41 | 1° 2 | 6° 3 | 10°53 | 21°11 | 18°51 | 16°48 | 15° 8 | 24°17 | n.a. | F 29 |
| S 30 | 18 18 44 | 3♋46'37 | 10♐38 | 27♋ 7 | 19♌24 | 4♑25 | 1♏ 2 | 6♍ 8 | 10♈54 | 21♉13 | 18♉52 | 16♉46 | 15♉ 5 | 24♎24 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 21n34 | 18s 8 | 0s13 | 21n30 | 0n41 | 24n29 | 2n 7 | 27s21 | 3s59 | 11s24 | 1n 7 | 12n 8 | 2n20 | 3n28 | 0s37 | 16n26 | 1s38 | 8n 5 | 9s46 | 17n16 | 16n59 | 6s18 | | n.a. |
| S 2 | 21 44 | 22 6 | 1 19 | 22 4 | 0 51 | 24 18 | 2 5 | 27 26 | 4 4 | 11 23 | 1 6 | 12 7 | 2 20 | 3 29 | 0 37 | 16 27 | 1 38 | 8 5 | 9 46 | 17 15 | 16 58 | 6 21 | | n.a. |
| S 3 | 21 54 | 25 8 | 2 23 | 22 37 | 1 0 | 24 7 | 2 4 | 27 31 | 4 9 | 11 21 | 1 6 | 12 6 | 2 19 | 3 30 | 0 37 | 16 27 | 1 38 | 8 5 | 9 46 | 17 15 | 16 58 | 6 25 | | n.a. |
| M 4 | 22 3 | 27 0 | 3 20 | 23 6 | 1 8 | 23 55 | 2 2 | 27 36 | 4 14 | 11 20 | 1 6 | 12 5 | 2 19 | 3 31 | 0 37 | 16 28 | 1 38 | 8 6 | 9 46 | 17 14 | 16 57 | 6 28 | | n.a. |
| T 5 | 22 11 | 27 29 | 4 8 | 23 34 | 1 15 | 23 42 | 2 1 | 27 41 | 4 19 | 11 18 | 1 6 | 12 4 | 2 19 | 3 32 | 0 37 | 16 28 | 1 38 | 8 6 | 9 46 | 17 13 | 16 56 | 6 31 | | n.a. |
| W 6 | 22 20 | 26 29 | 4 45 | 23 58 | 1 22 | 23 29 | 1 59 | 27 46 | 4 23 | 11 17 | 1 5 | 12 3 | 2 19 | 3 32 | 0 37 | 16 29 | 1 38 | 8 6 | 9 46 | 17 12 | 16 55 | 6 34 | | n.a. |
| T 7 | 22 28 | 24 1 | 5 8 | 24 20 | 1 29 | 23 15 | 1 57 | 27 51 | 4 28 | 11 16 | 1 5 | 12 2 | 2 19 | 3 33 | 0 37 | 16 29 | 1 38 | 8 7 | 9 46 | 17 11 | 16 54 | 6 38 | | n.a. |
| F 8 | 22 35 | 20 12 | 5 14 | 24 39 | 1 34 | 23 1 | 1 55 | 27 56 | 4 33 | 11 14 | 1 5 | 12 1 | 2 18 | 3 34 | 0 37 | 16 30 | 1 38 | 8 7 | 9 46 | 17 11 | 16 53 | 6 41 | | n.a. |
| S 9 | 22 42 | 15 17 | 5 3 | 24 55 | 1 39 | 22 46 | 1 53 | 28 2 | 4 38 | 11 13 | 1 5 | 11 59 | 2 18 | 3 35 | 0 38 | 16 31 | 1 38 | 8 7 | 9 46 | 17 10 | 16 52 | 6 44 | | n.a. |
| S 10 | 22 49 | 9 30 | 4 34 | 25 9 | 1 43 | 22 30 | 1 51 | 28 7 | 4 42 | 11 12 | 1 4 | 11 58 | 2 18 | 3 35 | 0 38 | 16 31 | 1 38 | 8 7 | 9 46 | 17 10 | 16 51 | 6 47 | | n.a. |
| M11 | 22 55 | 3 8 | 3 48 | 25 19 | 1 47 | 22 14 | 1 48 | 28 12 | 4 47 | 11 11 | 1 4 | 11 57 | 2 18 | 3 36 | 0 38 | 16 32 | 1 38 | 8 8 | 9 46 | 17 10 | 16 50 | 6 51 | | n.a. |
| T 12 | 23 1 | 3n28 | 2 47 | 25 27 | 1 50 | 21 58 | 1 46 | 28 17 | 4 52 | 11 10 | 1 4 | 11 56 | 2 18 | 3 37 | 0 38 | 16 32 | 1 38 | 8 8 | 9 46 | 17 11 | 16 49 | 6 54 | | n.a. |
| W13 | 23 7 | 10 0 | 1 35 | 25 33 | 1 52 | 21 40 | 1 43 | 28 22 | 4 56 | 11 9 | 1 4 | 11 54 | 2 17 | 3 38 | 0 38 | 16 33 | 1 38 | 8 8 | 9 46 | 17 11 | 16 48 | 6 57 | | n.a. |
| T 14 | 23 12 | 16 2 | 0 17 | 25 35 | 1 53 | 21 23 | 1 40 | 28 27 | 5 1 | 11 8 | 1 3 | 11 53 | 2 17 | 3 38 | 0 38 | 16 33 | 1 38 | 8 9 | 9 46 | 17 11 | 16 47 | 7 0 | | n.a. |
| F 15 | 23 17 | 21 9 | 1n 3 | 25 36 | 1 54 | 21 5 | 1 38 | 28 32 | 5 5 | 11 7 | 1 3 | 11 51 | 2 17 | 3 39 | 0 38 | 16 34 | 1 38 | 8 9 | 9 46 | 17 11 | 16 46 | 7 3 | | n.a. |
| S 16 | 23 21 | 24 56 | 2 18 | 25 33 | 1 54 | 20 46 | 1 34 | 28 37 | 5 9 | 11 6 | 1 3 | 11 50 | 2 17 | 3 39 | 0 38 | 16 34 | 1 38 | 8 9 | 9 46 | 17 11 | 16 45 | 7 7 | | n.a. |
| S 17 | 23 25 | 27 4 | 3 23 | 25 29 | 1 53 | 20 28 | 1 31 | 28 42 | 5 14 | 11 6 | 1 3 | 11 48 | 2 17 | 3 40 | 0 38 | 16 35 | 1 38 | 8 9 | 9 46 | 17 10 | 16 45 | 7 10 | | n.a. |
| M18 | 23 29 | 27 24 | 4 14 | 25 22 | 1 52 | 20 8 | 1 28 | 28 47 | 5 18 | 11 5 | 1 2 | 11 47 | 2 17 | 3 41 | 0 38 | 16 35 | 1 38 | 8 10 | 9 47 | 17 8 | 16 44 | 7 13 | | n.a. |
| T 19 | 23 32 | 26 0 | 4 49 | 25 14 | 1 50 | 19 48 | 1 25 | 28 52 | 5 22 | 11 5 | 1 2 | 11 45 | 2 16 | 3 41 | 0 38 | 16 36 | 1 38 | 8 10 | 9 47 | 17 7 | 16 43 | 7 16 | | n.a. |
| W20 | 23 35 | 23 11 | 5 8 | 25 3 | 1 48 | 19 28 | 1 21 | 28 57 | 5 26 | 11 4 | 1 2 | 11 44 | 2 16 | 3 42 | 0 38 | 16 36 | 1 38 | 8 10 | 9 47 | 17 5 | 16 42 | 7 20 | | n.a. |
| T 21 | 23 37 | 19 15 | 5 10 | 24 51 | 1 45 | 19 7 | 1 17 | 29 1 | 5 30 | 11 4 | 1 2 | 11 42 | 2 16 | 3 42 | 0 38 | 16 37 | 1 38 | 8 10 | 9 47 | 17 4 | 16 41 | 7 23 | | n.a. |
| F 22 | 23 39 | 14 34 | 4 56 | 24 36 | 1 41 | 18 46 | 1 14 | 29 6 | 5 33 | 11 3 | 1 1 | 11 41 | 2 16 | 3 43 | 0 38 | 16 37 | 1 38 | 8 10 | 9 47 | 17 2 | 16 40 | 7 26 | | n.a. |
| S 23 | 23 40 | 9 25 | 4 30 | 24 21 | 1 37 | 18 25 | 1 10 | 29 10 | 5 37 | 11 3 | 1 1 | 11 39 | 2 16 | 3 43 | 0 38 | 16 38 | 1 38 | 8 11 | 9 47 | 17 2 | 16 39 | 7 29 | | n.a. |
| S 24 | 23 42 | 4 1 | 3 51 | 24 3 | 1 33 | 18 3 | 1 6 | 29 14 | 5 40 | 11 3 | 1 1 | 11 37 | 2 15 | 3 44 | 0 38 | 16 38 | 1 38 | 8 11 | 9 47 | 17 2 | 16 38 | 7 33 | | n.a. |
| M25 | 23 42 | 1s28 | 3 3 | 23 45 | 1 28 | 17 41 | 1 1 | 29 18 | 5 44 | 11 2 | 1 0 | 11 36 | 2 15 | 3 44 | 0 38 | 16 39 | 1 38 | 8 11 | 9 47 | 17 2 | 16 37 | 7 36 | | n.a. |
| T 26 | 23 42 | 6 52 | 2 8 | 23 25 | 1 22 | 17 19 | 0 57 | 29 22 | 5 47 | 11 2 | 1 0 | 11 34 | 2 15 | 3 45 | 0 38 | 16 39 | 1 38 | 8 11 | 9 47 | 17 2 | 16 36 | 7 39 | | n.a. |
| W27 | 23 42 | 12 3 | 1 7 | 23 3 | 1 16 | 16 56 | 0 52 | 29 26 | 5 50 | 11 2 | 1 0 | 11 32 | 2 15 | 3 45 | 0 38 | 16 40 | 1 38 | 8 11 | 9 47 | 17 3 | 16 35 | 7 42 | | n.a. |
| T 28 | 23 42 | 16 50 | 0 3 | 22 41 | 1 10 | 16 33 | 0 48 | 29 29 | 5 53 | 11 2 | 1 0 | 11 30 | 2 15 | 3 46 | 0 38 | 16 40 | 1 38 | 8 12 | 9 47 | 17 3 | 16 34 | 7 46 | | n.a. |
| F 29 | 23 41 | 21 1 | 1s 2 | 22 18 | 1 3 | 16 10 | 0 43 | 29 33 | 5 56 | 11 2 | 0 59 | 11 28 | 2 15 | 3 46 | 0 38 | 16 40 | 1 38 | 8 12 | 9 48 | 17 3 | 16 33 | 7 49 | | n.a. |
| S 30 | 23n39 | 24s21 | 2s 5 | 21n53 | 0n56 | 15n46 | 0n38 | 29s36 | 5s58 | 11s 2 | 0n59 | 11n27 | 2n14 | 3n47 | 0s38 | 16n41 | 1s38 | 8n12 | 9s48 | 17n 2 | 16n32 | 7s52 | | n.a. |

Julian Day Number = 1691623.5, Delta T = 03h10m11s
Ecliptic obliquity = 23°42'24, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°11'28, Lahiri = - 5°04'27 Julian Calendar 1 June 82 BCE == Greg. Calendar 30 May 082 BCE

The year -81 astronomical counting style corresponds to year 082 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 82 BCE
# geocentric

## JULY 82 BCE (-81) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 22 40 | 4♋43'56 | 23♐10 | 28♋35 | 20♌24 | 4°R 9 | 1°R 1 | 6♍12 | 10♈55 | 21♉14 | 18♉53 | 16°R41 | 15♉ 2 | 24♎30 | n.a. | S 1 |
| M 2 | 18 26 37 | 5°41'15 | 5♑59 | 0♌ 1 | 21°23 | 3♑53 | 1°D 1 | 6°17 | 10°55 | 21°16 | 18°54 | 16♉34 | 14°58 | 24°37 | n.a. | M 2 |
| T 3 | 18 30 33 | 6°38'36 | 19° 4 | 1°25 | 22°22 | 3°37 | 1♏ 2 | 6°22 | 10°56 | 21°18 | 18°55 | 16°26 | 14°55 | 24°44 | n.a. | T 3 |
| W 4 | 18 34 30 | 7°35'58 | 2♒23 | 2°48 | 23°21 | 3°21 | 1° 2 | 6°27 | 10°57 | 21°20 | 18°56 | 16°18 | 14°52 | 24°50 | n.a. | W 4 |
| T 5 | 18 38 26 | 8°33'20 | 15°57 | 4° 8 | 24°19 | 3° 5 | 1° 2 | 6°32 | 10°58 | 21°21 | 18°57 | 16°10 | 14°49 | 24°57 | n.a. | T 5 |
| F 6 | 18 42 23 | 9°30'44 | 29°41 | 5°26 | 25°17 | 2°49 | 1° 3 | 6°36 | 10°59 | 21°23 | 18°58 | 16° 3 | 14°46 | 25° 4 | n.a. | F 6 |
| S 7 | 18 46 20 | 10°28'09 | 13♓34 | 6°43 | 26°15 | 2°34 | 1° 4 | 6°42 | 10°59 | 21°25 | 18°59 | 15°58 | 14°43 | 25°10 | n.a. | S 7 |
| S 8 | 18 50 16 | 11°25'36 | 27°34 | 7°57 | 27°12 | 2°19 | 1° 5 | 6°47 | 11° 0 | 21°26 | 19° 0 | 15°55 | 14°39 | 25°17 | n.a. | S 8 |
| M 9 | 18 54 13 | 12°23'04 | 11♈39 | 9° 9 | 28° 8 | 2° 4 | 1° 6 | 6°52 | 11° 1 | 21°28 | 19° 0 | 15°D54 | 14°36 | 25°24 | n.a. | M 9 |
| T 10 | 18 58 9 | 13°20'33 | 25°48 | 10°19 | 29° 4 | 1°49 | 1° 8 | 6°57 | 11° 1 | 21°29 | 19° 1 | 15°55 | 14°33 | 25°30 | n.a. | T 10 |
| W11 | 19 2 6 | 14°18'04 | 10♉ 0 | 11°26 | 29°59 | 1°35 | 1° 9 | 7° 2 | 11° 2 | 21°31 | 19° 2 | 15°R55 | 14°30 | 25°37 | n.a. | W11 |
| T 12 | 19 6 2 | 15°15'37 | 24°13 | 12°31 | 0♍55 | 1°21 | 1°11 | 7° 8 | 11° 2 | 21°32 | 19° 3 | 15°55 | 14°27 | 25°44 | n.a. | T 12 |
| F 13 | 19 9 59 | 16°13'11 | 8♊25 | 13°34 | 1°50 | 1° 8 | 1°13 | 7°13 | 11° 3 | 21°34 | 19° 4 | 15°53 | 14°23 | 25°50 | n.a. | F 13 |
| S 14 | 19 13 56 | 17°10'47 | 22°32 | 14°34 | 2°44 | 0°55 | 1°15 | 7°19 | 11° 3 | 21°35 | 19° 5 | 15°49 | 14°20 | 25°57 | n.a. | S 14 |
| S 15 | 19 17 52 | 18° 8'24 | 6♋31 | 15°31 | 3°37 | 0°43 | 1°18 | 7°24 | 11° 3 | 21°37 | 19° 6 | 15°42 | 14°17 | 26° 4 | n.a. | S 15 |
| M16 | 19 21 49 | 19° 6'02 | 20°18 | 16°25 | 4°31 | 0°31 | 1°20 | 7°30 | 11° 3 | 21°38 | 19° 6 | 15°33 | 14°14 | 26°10 | n.a. | M16 |
| T 17 | 19 25 45 | 20° 3'42 | 3♌48 | 17°16 | 5°23 | 0°20 | 1°23 | 7°35 | 11° 4 | 21°39 | 19° 7 | 15°22 | 14°11 | 26°17 | n.a. | T 17 |
| W18 | 19 29 42 | 21° 1'23 | 17° 0 | 18° 4 | 6°15 | 0°10 | 1°26 | 7°41 | 11° 4 | 21°41 | 19° 8 | 15°11 | 14° 8 | 26°24 | n.a. | W18 |
| T 19 | 19 33 38 | 21°59'06 | 29°52 | 18°49 | 7° 6 | 29♐59 | 1°29 | 7°47 | 11° 4 | 21°42 | 19° 9 | 15° 1 | 14° 4 | 26°30 | n.a. | T 19 |
| F 20 | 19 37 35 | 22°56'49 | 12♍25 | 19°30 | 7°57 | 29°51 | 1°32 | 7°53 | 11°R 4 | 21°43 | 19° 9 | 14°53 | 14° 1 | 26°37 | n.a. | F 20 |
| S 21 | 19 41 31 | 23°54'34 | 24°41 | 20° 7 | 8°47 | 29°42 | 1°35 | 7°59 | 11° 4 | 21°45 | 19°10 | 14°47 | 13°58 | 26°43 | n.a. | S 21 |
| S 22 | 19 45 28 | 24°52'20 | 6♎43 | 20°40 | 9°36 | 29°35 | 1°39 | 8° 5 | 11° 4 | 21°46 | 19°11 | 14°43 | 13°55 | 26°50 | n.a. | S 22 |
| M23 | 19 49 25 | 25°50'07 | 18°36 | 21° 9 | 10°24 | 29°28 | 1°43 | 8°11 | 11° 4 | 21°47 | 19°11 | 14°41 | 13°52 | 26°57 | n.a. | M23 |
| T 24 | 19 53 21 | 26°47'56 | 0♏25 | 21°34 | 11°12 | 29°21 | 1°47 | 8°17 | 11° 4 | 21°48 | 19°12 | 14°D41 | 13°48 | 27° 3 | n.a. | T 24 |
| W25 | 19 57 18 | 27°45'46 | 12°16 | 21°54 | 11°59 | 29°16 | 1°51 | 8°23 | 11° 3 | 21°49 | 19°13 | 14°R41 | 13°45 | 27°10 | n.a. | W25 |
| T 26 | 20 1 14 | 28°43'37 | 24°12 | 22° 9 | 12°45 | 29°12 | 1°55 | 8°29 | 11° 3 | 21°50 | 19°13 | 14°41 | 13°42 | 27°17 | n.a. | T 26 |
| F 27 | 20 5 11 | 29°41'30 | 6♐21 | 22°18 | 13°30 | 29° 8 | 1°59 | 8°35 | 11° 3 | 21°51 | 19°14 | 14°39 | 13°39 | 27°23 | n.a. | F 27 |
| S 28 | 20 9 7 | 0♌39'24 | 18°46 | 22°R22 | 14°15 | 29° 5 | 2° 4 | 8°41 | 11° 3 | 21°53 | 19°14 | 14°35 | 13°36 | 27°30 | n.a. | S 28 |
| S 29 | 20 13 4 | 1°37'20 | 1♑29 | 22°21 | 14°58 | 29° 3 | 2° 9 | 8°47 | 11° 2 | 21°54 | 19°15 | 14°28 | 13°33 | 27°37 | n.a. | S 29 |
| M30 | 20 17 0 | 2°35'18 | 14°34 | 22°13 | 15°41 | 29° 1 | 2°14 | 8°54 | 11° 2 | 21°55 | 19°15 | 14°19 | 13°29 | 27°43 | n.a. | M30 |
| T 31 | 20 20 57 | 3♌33'16 | 27♑59 | 22♌ 0 | 16♍22 | 29°D 1 | 2♏19 | 9♍ 0 | 11♈ 1 | 21♉56 | 19♉16 | 14♉ 8 | 13♉26 | 27♎50 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| S 1 | 23n37 | 26s35 | 3s 3 | 21n28 | 0n49 | 15n22 | 0n33 | 29s39 | 6s 1 | 11s 2 | 0n59 | 11n25 | 2n14 | 3n47 | 0s38 | 16n41 | 1s38 | 8n12 | 9s48 | 17n 1 | 16n31 | 7s55 | | | n.a. |
| M 2 | 23 35 | 27 27 | 3 53 | 21 2 | 0 41 | 14 58 | 0 28 | 29 42 | 6 3 | 11 3 | 0 59 | 11 23 | 2 14 | 3 47 | 0 38 | 16 42 | 1 39 | 8 12 | 9 48 | 16 59 | 16 31 | 7 58 | | | n.a. |
| T 3 | 23 32 | 26 50 | 4 32 | 20 36 | 0 33 | 14 34 | 0 23 | 29 44 | 6 5 | 11 3 | 0 58 | 11 21 | 2 14 | 3 48 | 0 38 | 16 42 | 1 39 | 8 12 | 9 48 | 16 56 | 16 30 | 8 2 | | | n.a. |
| W 4 | 23 29 | 24 40 | 4 57 | 20 9 | 0 24 | 14 9 | 0 17 | 29 46 | 6 7 | 11 3 | 0 58 | 11 19 | 2 14 | 3 48 | 0 38 | 16 43 | 1 39 | 8 13 | 9 48 | 16 54 | 16 29 | 8 5 | | | n.a. |
| T 5 | 23 26 | 21 6 | 5 6 | 19 41 | 0 16 | 13 45 | 0 11 | 29 49 | 6 8 | 11 4 | 0 58 | 11 17 | 2 14 | 3 48 | 0 38 | 16 43 | 1 39 | 8 13 | 9 48 | 16 51 | 16 28 | 8 8 | | | n.a. |
| F 6 | 23 22 | 16 21 | 4 58 | 19 14 | 0 7 | 13 20 | 0 6 | 29 50 | 6 10 | 11 4 | 0 57 | 11 15 | 2 14 | 3 48 | 0 38 | 16 43 | 1 39 | 8 13 | 9 48 | 16 49 | 16 27 | 8 11 | | | n.a. |
| S 7 | 23 17 | 10 42 | 4 32 | 18 45 | 0s 3 | 12 54 | 0s 0 | 29 52 | 6 11 | 11 5 | 0 57 | 11 13 | 2 13 | 3 49 | 0 38 | 16 44 | 1 39 | 8 13 | 9 48 | 16 48 | 16 26 | 8 15 | | | n.a. |
| S 8 | 23 13 | 4 29 | 3 49 | 18 17 | 0 12 | 12 29 | 0 6 | 29 54 | 6 12 | 11 6 | 0 57 | 11 11 | 2 13 | 3 49 | 0 38 | 16 44 | 1 39 | 8 13 | 9 49 | 16 47 | 16 25 | 8 18 | | | n.a. |
| M 9 | 23 7 | 2n 1 | 2 53 | 17 49 | 0 22 | 12 4 | 0 12 | 29 55 | 6 13 | 11 6 | 0 57 | 11 9 | 2 13 | 3 49 | 0 38 | 16 44 | 1 39 | 8 13 | 9 49 | 16 47 | 16 24 | 8 21 | | | n.a. |
| T 10 | 23 2 | 8 26 | 1 46 | 17 20 | 0 32 | 11 38 | 0 19 | 29 56 | 6 14 | 11 7 | 0 56 | 11 7 | 2 13 | 3 49 | 0 38 | 16 45 | 1 39 | 8 13 | 9 49 | 16 47 | 16 23 | 8 24 | | | n.a. |
| W11 | 22 56 | 14 29 | 0 32 | 16 52 | 0 43 | 11 12 | 0 25 | 29 57 | 6 15 | 11 8 | 0 56 | 11 5 | 2 13 | 3 49 | 0 38 | 16 45 | 1 39 | 8 13 | 9 49 | 16 47 | 16 22 | 8 27 | | | n.a. |
| T 12 | 22 49 | 19 45 | 0n44 | 16 23 | 0 53 | 10 47 | 0 32 | 29 57 | 6 15 | 11 9 | 0 56 | 11 2 | 2 13 | 3 50 | 0 38 | 16 46 | 1 39 | 8 14 | 9 49 | 16 47 | 16 21 | 8 31 | | | n.a. |
| F 13 | 22 43 | 23 53 | 1 57 | 15 55 | 1 4 | 10 21 | 0 38 | 29 58 | 6 16 | 11 10 | 0 56 | 11 0 | 2 13 | 3 50 | 0 38 | 16 46 | 1 39 | 8 14 | 9 49 | 16 47 | 16 20 | 8 34 | | | n.a. |
| S 14 | 22 35 | 26 32 | 3 2 | 15 27 | 1 15 | 9 55 | 0 45 | 29 58 | 6 16 | 11 11 | 0 55 | 10 58 | 2 12 | 3 50 | 0 38 | 16 46 | 1 39 | 8 14 | 9 49 | 16 45 | 16 19 | 8 37 | | | n.a. |
| S 15 | 22 28 | 27 28 | 3 56 | 15 0 | 1 26 | 9 29 | 0 52 | 29 58 | 6 16 | 11 12 | 0 55 | 10 56 | 2 12 | 3 50 | 0 38 | 16 47 | 1 39 | 8 14 | 9 50 | 16 43 | 16 18 | 8 40 | | | n.a. |
| M16 | 22 20 | 26 41 | 4 35 | 14 33 | 1 37 | 9 3 | 0 59 | 29 58 | 6 15 | 11 13 | 0 55 | 10 54 | 2 12 | 3 50 | 0 38 | 16 47 | 1 39 | 8 14 | 9 50 | 16 41 | 16 17 | 8 44 | | | n.a. |
| T 17 | 22 11 | 24 19 | 4 57 | 14 7 | 1 48 | 8 37 | 1 7 | 29 57 | 6 15 | 11 14 | 0 54 | 10 51 | 2 12 | 3 50 | 0 39 | 16 47 | 1 39 | 8 14 | 9 50 | 16 38 | 16 16 | 8 47 | | | n.a. |
| W18 | 22 3 | 20 43 | 5 3 | 13 42 | 1 59 | 8 10 | 1 14 | 29 57 | 6 14 | 11 15 | 0 54 | 10 49 | 2 12 | 3 50 | 0 39 | 16 48 | 1 39 | 8 14 | 9 50 | 16 34 | 16 15 | 8 50 | | | n.a. |
| T 19 | 21 53 | 16 12 | 4 53 | 13 17 | 2 10 | 7 44 | 1 22 | 29 56 | 6 14 | 11 17 | 0 54 | 10 47 | 2 12 | 3 50 | 0 39 | 16 48 | 1 39 | 8 14 | 9 50 | 16 31 | 16 14 | 8 53 | | | n.a. |
| F 20 | 21 44 | 11 7 | 4 29 | 12 54 | 2 22 | 7 18 | 1 29 | 29 55 | 6 13 | 11 18 | 0 54 | 10 44 | 2 12 | 3 50 | 0 39 | 16 48 | 1 39 | 8 14 | 9 50 | 16 29 | 16 13 | 8 56 | | | n.a. |
| S 21 | 21 34 | 5 42 | 3 53 | 12 31 | 2 33 | 6 52 | 1 37 | 29 54 | 6 12 | 11 19 | 0 53 | 10 42 | 2 12 | 3 50 | 0 39 | 16 48 | 1 39 | 8 14 | 9 50 | 16 27 | 16 12 | 9 0 | | | n.a. |
| S 22 | 21 24 | 0 10 | 3 8 | 12 10 | 2 44 | 6 26 | 1 45 | 29 53 | 6 11 | 11 21 | 0 53 | 10 40 | 2 12 | 3 50 | 0 39 | 16 49 | 1 39 | 8 14 | 9 51 | 16 26 | 16 12 | 9 3 | | | n.a. |
| M23 | 21 13 | 5s18 | 2 14 | 11 51 | 2 55 | 6 0 | 1 53 | 29 52 | 6 9 | 11 22 | 0 53 | 10 37 | 2 11 | 3 50 | 0 39 | 16 49 | 1 39 | 8 14 | 9 51 | 16 25 | 16 11 | 9 6 | | | n.a. |
| T 24 | 21 2 | 10 35 | 1 15 | 11 33 | 3 6 | 5 34 | 2 2 | 29 50 | 6 8 | 11 24 | 0 53 | 10 35 | 2 11 | 3 50 | 0 39 | 16 49 | 1 39 | 8 14 | 9 51 | 16 25 | 16 10 | 9 9 | | | n.a. |
| W25 | 20 50 | 15 29 | 0 13 | 11 16 | 3 16 | 5 9 | 2 10 | 29 49 | 6 7 | 11 26 | 0 52 | 10 33 | 2 11 | 3 50 | 0 39 | 16 49 | 1 39 | 8 14 | 9 51 | 16 25 | 16 9 | 9 12 | | | n.a. |
| T 26 | 20 39 | 19 51 | 0s50 | 11 2 | 3 26 | 4 43 | 2 18 | 29 47 | 6 5 | 11 27 | 0 52 | 10 30 | 2 11 | 3 50 | 0 39 | 16 50 | 1 39 | 8 14 | 9 51 | 16 25 | 16 8 | 9 16 | | | n.a. |
| F 27 | 20 27 | 23 27 | 1 52 | 10 50 | 3 36 | 4 18 | 2 27 | 29 45 | 6 3 | 11 29 | 0 52 | 10 28 | 2 11 | 3 50 | 0 39 | 16 50 | 1 39 | 8 14 | 9 51 | 16 25 | 16 7 | 9 19 | | | n.a. |
| S 28 | 20 14 | 26 3 | 2 50 | 10 40 | 3 45 | 3 52 | 2 36 | 29 44 | 6 1 | 11 31 | 0 52 | 10 25 | 2 11 | 3 49 | 0 39 | 16 50 | 1 40 | 8 14 | 9 51 | 16 24 | 16 6 | 9 22 | | | n.a. |
| S 29 | 20 1 | 27 23 | 3 41 | 10 32 | 3 54 | 3 27 | 2 45 | 29 42 | 5 59 | 11 33 | 0 51 | 10 23 | 2 11 | 3 49 | 0 39 | 16 50 | 1 40 | 8 14 | 9 52 | 16 22 | 16 5 | 9 25 | | | n.a. |
| M30 | 19 48 | 27 14 | 4 22 | 10 27 | 4 1 | 3 3 | 2 54 | 29 40 | 5 57 | 11 35 | 0 51 | 10 20 | 2 11 | 3 49 | 0 39 | 16 51 | 1 40 | 8 14 | 9 52 | 16 19 | 16 4 | 9 28 | | | n.a. |
| T 31 | 19n35 | 25s31 | 4s49 | 10n25 | 4s 8 | 2n38 | 3s 3 | 29s37 | 5s55 | 11s37 | 0n51 | 10n18 | 2n11 | 3n49 | 0s39 | 16n51 | 1s40 | 8n14 | 9s52 | 16n15 | 16n 3 | 9s32 | | | n.a. |

Julian Day Number = 1691653.5, Delta T = 03h10m10s
Ecliptic obliquity = 23°42'24, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°11'23, Lahiri = - 5°04'23 Julian Calendar 1 July 82 BCE == Greg. Calendar 29 June 082 BCE

The year -81 astronomical counting style corresponds to year 082 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 82 BCE
# geocentric

## AUGUST 82 BCE (-81) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 20 24 54 | 4♌31'17 | 11♒44 | 21°R40 | 17♍ 2 | 29♐ 1 | 2♏24 | 9♍ 7 | 11°R 1 | 21♉56 | 19♉16 | 13°R56 | 13♉23 | 27♎57 | n.a. | W 1 |
| T 2 | 20 28 50 | 5°29'19 | 25°43 | 21♌15 | 17°42 | 29° 2 | 2°29 | 9°13 | 11♈ 0 | 21°57 | 19°17 | 13♉45 | 13°20 | 28° 3 | n.a. | T 2 |
| F 3 | 20 32 47 | 6°27'23 | 9♓53 | 20°43 | 18°20 | 29° 4 | 2°35 | 9°20 | 10°59 | 21°58 | 19°17 | 13°35 | 13°17 | 28°10 | n.a. | F 3 |
| S 4 | 20 36 43 | 7°25'29 | 24° 8 | 20° 6 | 18°57 | 29° 6 | 2°40 | 9°26 | 10°59 | 21°59 | 19°18 | 13°27 | 13°14 | 28°17 | n.a. | S 4 |
| S 5 | 20 40 40 | 8°23'37 | 8♈24 | 19°23 | 19°33 | 29°10 | 2°46 | 9°33 | 10°58 | 22° 0 | 19°18 | 13°22 | 13°10 | 28°23 | n.a. | S 5 |
| M 6 | 20 44 36 | 9°21'47 | 22°38 | 18°35 | 20° 8 | 29°14 | 2°52 | 9°39 | 10°57 | 22° 1 | 19°18 | 13°20 | 13° 7 | 28°30 | n.a. | M 6 |
| T 7 | 20 48 33 | 10°20'00 | 6♉48 | 17°42 | 20°41 | 29°19 | 2°58 | 9°46 | 10°56 | 22° 1 | 19°19 | 13°19 | 13° 4 | 28°37 | n.a. | T 7 |
| W 8 | 20 52 29 | 11°18'14 | 20°52 | 16°47 | 21°13 | 29°25 | 3° 5 | 9°53 | 10°56 | 22° 2 | 19°19 | 13°19 | 13° 1 | 28°43 | n.a. | W 8 |
| T 9 | 20 56 26 | 12°16'31 | 4♊49 | 15°48 | 21°43 | 29°31 | 3°11 | 9°59 | 10°55 | 22° 3 | 19°20 | 13°18 | 12°58 | 28°50 | n.a. | T 9 |
| F 10 | 21 0 23 | 13°14'50 | 18°40 | 14°49 | 22°13 | 29°38 | 3°18 | 10° 6 | 10°54 | 22° 4 | 19°20 | 13°16 | 12°54 | 28°56 | n.a. | F 10 |
| S 11 | 21 4 19 | 14°13'11 | 2♋23 | 13°49 | 22°40 | 29°46 | 3°24 | 10°13 | 10°53 | 22° 4 | 19°20 | 13°10 | 12°51 | 29° 3 | n.a. | S 11 |
| S 12 | 21 8 16 | 15°11'35 | 15°57 | 12°51 | 23° 6 | 29°55 | 3°31 | 10°20 | 10°52 | 22° 5 | 19°20 | 13° 1 | 12°48 | 29°10 | n.a. | S 12 |
| M13 | 21 12 12 | 16°10'00 | 29°20 | 11°55 | 23°31 | 0♌ 5 | 3°38 | 10°27 | 10°50 | 22° 5 | 19°21 | 12°50 | 12°45 | 29°16 | n.a. | M13 |
| T 14 | 21 16 9 | 17° 8'27 | 12♌30 | 11° 4 | 23°54 | 0°15 | 3°45 | 10°33 | 10°49 | 22° 6 | 19°21 | 12°38 | 12°42 | 29°23 | n.a. | T 14 |
| W15 | 21 20 5 | 18° 6'57 | 25°26 | 10°17 | 24°15 | 0°26 | 3°53 | 10°40 | 10°48 | 22° 6 | 19°21 | 12°24 | 12°39 | 29°30 | n.a. | W15 |
| T 16 | 21 24 2 | 19° 5'28 | 8♍ 7 | 9°37 | 24°34 | 0°38 | 4° 0 | 10°47 | 10°47 | 22° 7 | 19°21 | 12°12 | 12°35 | 29°36 | n.a. | T 16 |
| F 17 | 21 27 58 | 20° 4'01 | 20°31 | 9° 5 | 24°51 | 0°51 | 4° 8 | 10°54 | 10°46 | 22° 7 | 19°21 | 12° 2 | 12°32 | 29°43 | n.a. | F 17 |
| S 18 | 21 31 55 | 21° 2'36 | 2♎42 | 8°41 | 25° 7 | 1° 4 | 4°15 | 11° 1 | 10°44 | 22° 8 | 19°21 | 11°53 | 12°29 | 29°50 | n.a. | S 18 |
| S 19 | 21 35 51 | 22° 1'13 | 14°41 | 8°25 | 25°20 | 1°18 | 4°23 | 11° 8 | 10°43 | 22° 8 | 19°21 | 11°48 | 12°26 | 29°56 | n.a. | S 19 |
| M20 | 21 39 48 | 22°59'51 | 26°32 | 8°D19 | 25°32 | 1°32 | 4°31 | 11°15 | 10°42 | 22° 8 | 19°22 | 11°45 | 12°23 | 0♏ 3 | n.a. | M20 |
| T 21 | 21 43 45 | 23°58'32 | 8♏19 | 8°23 | 25°41 | 1°47 | 4°39 | 11°22 | 10°40 | 22° 9 | 19°22 | 11°D45 | 12°20 | 0°10 | n.a. | T 21 |
| W22 | 21 47 41 | 24°57'14 | 20° 8 | 8°36 | 25°48 | 2° 3 | 4°47 | 11°29 | 10°39 | 22° 9 | 19°22 | 11°R45 | 12°16 | 0°16 | n.a. | W22 |
| T 23 | 21 51 38 | 25°55'58 | 2♐ 4 | 8°59 | 25°53 | 2°20 | 4°56 | 11°37 | 10°37 | 22° 9 | 19°R22 | 11°44 | 12°13 | 0°23 | n.a. | T 23 |
| F 24 | 21 55 34 | 26°54'44 | 14°12 | 9°31 | 25°56 | 2°37 | 5° 4 | 11°44 | 10°36 | 22° 9 | 19°22 | 11°43 | 12°10 | 0°30 | n.a. | F 24 |
| S 25 | 21 59 31 | 27°53'32 | 26°38 | 10°12 | 25°R56 | 2°55 | 5°13 | 11°51 | 10°34 | 22° 9 | 19°22 | 11°40 | 12° 7 | 0°36 | n.a. | S 25 |
| S 26 | 22 3 27 | 28°52'22 | 9♑26 | 11° 2 | 25°54 | 3°13 | 5°22 | 11°58 | 10°32 | 22°10 | 19°22 | 11°34 | 12° 4 | 0°43 | n.a. | S 26 |
| M27 | 22 7 24 | 29°51'14 | 22°39 | 11°59 | 25°49 | 3°32 | 5°30 | 12° 5 | 10°31 | 22°10 | 19°21 | 11°26 | 12° 0 | 0°50 | n.a. | M27 |
| T 28 | 22 11 20 | 0♍50'07 | 6♒17 | 13° 4 | 25°42 | 3°52 | 5°39 | 12°12 | 10°29 | 22°10 | 19°21 | 11°16 | 11°57 | 0°56 | n.a. | T 28 |
| W29 | 22 15 17 | 1°49'03 | 20°19 | 14°15 | 25°33 | 4°12 | 5°48 | 12°20 | 10°27 | 22°R10 | 19°21 | 11° 5 | 11°54 | 1° 3 | n.a. | W29 |
| T 30 | 22 19 14 | 2°48'00 | 4♓41 | 15°32 | 25°22 | 4°32 | 5°58 | 12°27 | 10°25 | 22°10 | 19°21 | 10°54 | 11°51 | 1° 9 | n.a. | T 30 |
| F 31 | 22 23 10 | 3♍46'59 | 19♓16 | 16♌55 | 25♍ 8 | 4♑53 | 6♏ 7 | 12♍34 | 10♈24 | 22♉10 | 19♉21 | 10♉45 | 11♉48 | 1♏16 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| W 1 | 19n21 | 22s16 | 5s 0 | 10n26 | 4s14 | 2n14 | 3s12 | 29s35 | 5s53 | 11s39 | 0n51 | 10n15 | 2n11 | 3n49 | 0s39 | 16n51 | 1s40 | 8n14 | 9s52 | 16n12 | 16n 2 | 9s35 | | | n.a. |
| T 2 | 19 7 | 17 42 | 4 54 | 10 30 | 4 19 | 1 50 | 3 22 | 29 33 | 5 51 | 11 41 | 0 50 | 10 13 | 2 11 | 3 48 | 0 39 | 16 51 | 1 40 | 8 14 | 9 52 | 16 8 | 16 1 | 9 38 | | | n.a. |
| F 3 | 18 52 | 12 6 | 4 30 | 10 36 | 4 22 | 1 26 | 3 31 | 29 31 | 5 48 | 11 43 | 0 50 | 10 10 | 2 10 | 3 48 | 0 39 | 16 51 | 1 40 | 8 14 | 9 52 | 16 5 | 16 0 | 9 41 | | | n.a. |
| S 4 | 18 37 | 5 51 | 3 49 | 10 46 | 4 24 | 1 2 | 3 41 | 29 28 | 5 46 | 11 45 | 0 50 | 10 8 | 2 10 | 3 48 | 0 39 | 16 52 | 1 40 | 8 14 | 9 53 | 16 3 | 15 59 | 9 44 | | | n.a. |
| S 5 | 18 22 | 0n43 | 2 53 | 11 0 | 4 24 | 0 39 | 3 50 | 29 26 | 5 43 | 11 48 | 0 50 | 10 5 | 2 10 | 3 47 | 0 39 | 16 52 | 1 40 | 8 14 | 9 53 | 16 2 | 15 58 | 9 47 | | | n.a. |
| M 6 | 18 7 | 7 15 | 1 47 | 11 16 | 4 23 | 0 17 | 4 0 | 29 23 | 5 41 | 11 50 | 0 49 | 10 2 | 2 10 | 3 47 | 0 39 | 16 52 | 1 40 | 8 14 | 9 53 | 16 1 | 15 57 | 9 51 | | | n.a. |
| T 7 | 17 51 | 13 24 | 0 34 | 11 35 | 4 19 | 0s 5 | 4 10 | 29 20 | 5 38 | 11 52 | 0 49 | 10 0 | 2 10 | 3 47 | 0 39 | 16 52 | 1 40 | 8 14 | 9 53 | 16 1 | 15 56 | 9 54 | | | n.a. |
| W 8 | 17 35 | 18 49 | 0n40 | 11 57 | 4 14 | 0 27 | 4 20 | 29 18 | 5 35 | 11 55 | 0 49 | 9 57 | 2 10 | 3 46 | 0 39 | 16 52 | 1 40 | 8 14 | 9 53 | 16 1 | 15 55 | 9 57 | | | n.a. |
| T 9 | 17 18 | 23 9 | 1 51 | 12 21 | 4 7 | 0 49 | 4 30 | 29 15 | 5 33 | 11 57 | 0 49 | 9 55 | 2 10 | 3 46 | 0 39 | 16 52 | 1 40 | 8 14 | 9 54 | 16 1 | 15 54 | 10 0 | | | n.a. |
| F 10 | 17 2 | 26 7 | 2 55 | 12 47 | 3 57 | 1 9 | 4 40 | 29 12 | 5 30 | 11 59 | 0 48 | 9 52 | 2 10 | 3 46 | 0 39 | 16 52 | 1 40 | 8 14 | 9 54 | 16 0 | 15 53 | 10 3 | | | n.a. |
| S 11 | 16 45 | 27 29 | 3 48 | 13 15 | 3 46 | 1 30 | 4 50 | 29 9 | 5 27 | 12 2 | 0 48 | 9 49 | 2 10 | 3 45 | 0 39 | 16 53 | 1 40 | 8 13 | 9 54 | 15 58 | 15 52 | 10 7 | | | n.a. |
| S 12 | 16 28 | 27 10 | 4 28 | 13 44 | 3 33 | 1 50 | 5 1 | 29 7 | 5 24 | 12 5 | 0 48 | 9 47 | 2 10 | 3 45 | 0 39 | 16 53 | 1 40 | 8 13 | 9 54 | 15 55 | 15 51 | 10 10 | | | n.a. |
| M13 | 16 10 | 25 16 | 4 52 | 14 14 | 3 18 | 2 9 | 5 11 | 29 4 | 5 21 | 12 7 | 0 48 | 9 44 | 2 10 | 3 44 | 0 39 | 16 53 | 1 40 | 8 13 | 9 54 | 15 52 | 15 50 | 10 13 | | | n.a. |
| T 14 | 15 52 | 22 2 | 5 0 | 14 44 | 3 2 | 2 27 | 5 21 | 29 1 | 5 18 | 12 10 | 0 48 | 9 41 | 2 10 | 3 44 | 0 39 | 16 53 | 1 40 | 8 13 | 9 54 | 15 48 | 15 49 | 10 16 | | | n.a. |
| W15 | 15 34 | 17 46 | 4 53 | 15 13 | 2 45 | 2 45 | 5 31 | 28 58 | 5 15 | 12 13 | 0 47 | 9 39 | 2 10 | 3 43 | 0 39 | 16 53 | 1 40 | 8 13 | 9 55 | 15 44 | 15 48 | 10 19 | | | n.a. |
| T 16 | 15 16 | 12 48 | 4 31 | 15 41 | 2 27 | 3 2 | 5 42 | 28 55 | 5 12 | 12 15 | 0 47 | 9 36 | 2 10 | 3 43 | 0 39 | 16 53 | 1 40 | 8 13 | 9 55 | 15 40 | 15 47 | 10 22 | | | n.a. |
| F 17 | 14 57 | 7 24 | 3 56 | 16 8 | 2 8 | 3 19 | 5 52 | 28 52 | 5 9 | 12 18 | 0 47 | 9 33 | 2 10 | 3 42 | 0 39 | 16 53 | 1 41 | 8 13 | 9 55 | 15 37 | 15 46 | 10 26 | | | n.a. |
| S 18 | 14 39 | 1 50 | 3 11 | 16 33 | 1 49 | 3 34 | 6 2 | 28 49 | 5 6 | 12 21 | 0 47 | 9 30 | 2 10 | 3 42 | 0 39 | 16 53 | 1 41 | 8 13 | 9 55 | 15 34 | 15 45 | 10 29 | | | n.a. |
| S 19 | 14 19 | 3s44 | 2 18 | 16 55 | 1 30 | 3 49 | 6 13 | 28 45 | 5 3 | 12 24 | 0 46 | 9 28 | 2 10 | 3 41 | 0 39 | 16 53 | 1 41 | 8 12 | 9 55 | 15 33 | 15 44 | 10 32 | | | n.a. |
| M20 | 14 0 | 9 6 | 1 20 | 17 15 | 1 10 | 4 3 | 6 23 | 28 42 | 5 0 | 12 27 | 0 46 | 9 25 | 2 10 | 3 41 | 0 39 | 16 53 | 1 41 | 8 12 | 9 55 | 15 32 | 15 43 | 10 35 | | | n.a. |
| T 21 | 13 41 | 14 9 | 0 18 | 17 32 | 0 52 | 4 16 | 6 33 | 28 39 | 4 57 | 12 30 | 0 46 | 9 22 | 2 9 | 3 40 | 0 39 | 16 53 | 1 41 | 8 12 | 9 56 | 15 32 | 15 42 | 10 38 | | | n.a. |
| W22 | 13 21 | 18 41 | 0s44 | 17 46 | 0 33 | 4 28 | 6 43 | 28 36 | 4 54 | 12 33 | 0 46 | 9 19 | 2 9 | 3 39 | 0 39 | 16 53 | 1 41 | 8 12 | 9 56 | 15 32 | 15 41 | 10 41 | | | n.a. |
| T 23 | 13 1 | 22 32 | 1 46 | 17 57 | 0 16 | 4 38 | 6 52 | 28 32 | 4 51 | 12 36 | 0 46 | 9 17 | 2 9 | 3 39 | 0 39 | 16 53 | 1 41 | 8 12 | 9 56 | 15 32 | 15 40 | 10 45 | | | n.a. |
| F 24 | 12 41 | 25 28 | 2 43 | 18 5 | 0n 0 | 4 48 | 7 2 | 28 29 | 4 48 | 12 39 | 0 45 | 9 14 | 2 9 | 3 38 | 0 39 | 16 53 | 1 41 | 8 12 | 9 56 | 15 31 | 15 39 | 10 48 | | | n.a. |
| S 25 | 12 20 | 27 14 | 3 35 | 18 8 | 0 16 | 4 57 | 7 11 | 28 25 | 4 45 | 12 42 | 0 45 | 9 11 | 2 9 | 3 37 | 0 39 | 16 53 | 1 41 | 8 12 | 9 56 | 15 30 | 15 39 | 10 51 | | | n.a. |
| S 26 | 12 0 | 27 38 | 4 17 | 18 9 | 0 30 | 5 4 | 7 20 | 28 22 | 4 42 | 12 45 | 0 45 | 9 8 | 2 9 | 3 37 | 0 39 | 16 53 | 1 41 | 8 11 | 9 56 | 15 28 | 15 38 | 10 54 | | | n.a. |
| M27 | 11 39 | 26 29 | 4 47 | 18 5 | 0 44 | 5 11 | 7 29 | 28 18 | 4 39 | 12 48 | 0 45 | 9 6 | 2 9 | 3 36 | 0 39 | 16 53 | 1 41 | 8 11 | 9 57 | 15 26 | 15 37 | 10 57 | | | n.a. |
| T 28 | 11 18 | 23 46 | 5 1 | 17 58 | 0 56 | 5 16 | 7 38 | 28 15 | 4 36 | 12 51 | 0 45 | 9 3 | 2 9 | 3 35 | 0 39 | 16 53 | 1 41 | 8 11 | 9 57 | 15 23 | 15 36 | 11 0 | | | n.a. |
| W29 | 10 57 | 19 35 | 4 59 | 17 48 | 1 7 | 5 19 | 7 46 | 28 11 | 4 33 | 12 55 | 0 44 | 9 0 | 2 9 | 3 35 | 0 40 | 16 53 | 1 41 | 8 11 | 9 57 | 15 19 | 15 35 | 11 3 | | | n.a. |
| T 30 | 10 35 | 14 11 | 4 37 | 17 34 | 1 16 | 5 22 | 7 53 | 28 7 | 4 30 | 12 58 | 0 44 | 8 57 | 2 9 | 3 34 | 0 40 | 16 53 | 1 41 | 8 11 | 9 57 | 15 16 | 15 34 | 11 7 | | | n.a. |
| F 31 | 10n14 | 7s55 | 3s57 | 17n17 | 1n25 | 5s23 | 8s 0 | 28s 3 | 4s26 | 13s 1 | 0n44 | 8n54 | 2n 9 | 3n33 | 0s40 | 16n53 | 1s41 | 8n10 | 9s57 | 15n13 | 15n33 | 11s10 | | | n.a. |

Julian Day Number = 1691684.5, Delta T = 03h10m09s
Ecliptic obliquity = 23°42'24, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°11'19, Lahiri = - 5°04'19 Julian Calendar 1 Aug. 82 BCE == Greg. Calendar 30 July 082 BCE

The year -81 astronomical counting style corresponds to year 082 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 82 BCE
# geocentric

## SEPTEMBER 82 BCE (-81) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 22 27 7 | 4♍46'01 | 3♈58 | 18♌22 | 24°R51 | 5♑15 | 6♏16 | 12♍41 | 10°R22 | 22°R10 | 19°R21 | 10°R38 | 11♉45 | 1♏23 | n.a. | S 1 |
| S 2 | 22 31 3 | 5°45'05 | 18°38 | 19°53 | 24♍32 | 5°37 | 6°26 | 12°49 | 10♈20 | 22♉ 9 | 19♉21 | 10♉34 | 11°41 | 1°29 | n.a. | S 2 |
| M 3 | 22 35 0 | 6°44'12 | 3♉11 | 21°27 | 24°12 | 6° 0 | 6°35 | 12°56 | 10°18 | 22° 9 | 19°20 | 10°32 | 11°38 | 1°36 | n.a. | M 3 |
| T 4 | 22 38 56 | 7°43'20 | 17°33 | 23° 4 | 23°48 | 6°23 | 6°45 | 13° 3 | 10°16 | 22° 9 | 19°20 | 10°D32 | 11°35 | 1°43 | n.a. | T 4 |
| W 5 | 22 42 53 | 8°42'32 | 1♊41 | 24°44 | 23°23 | 6°46 | 6°55 | 13°10 | 10°14 | 22° 9 | 19°20 | 10°33 | 11°32 | 1°49 | n.a. | W 5 |
| T 6 | 22 46 49 | 9°41'46 | 15°35 | 26°25 | 22°56 | 7°10 | 7° 5 | 13°18 | 10°12 | 22° 9 | 19°20 | 10°R33 | 11°29 | 1°56 | n.a. | T 6 |
| F 7 | 22 50 46 | 10°41'02 | 29°15 | 28° 8 | 22°27 | 7°35 | 7°15 | 13°25 | 10°10 | 22° 8 | 19°19 | 10°31 | 11°26 | 2° 3 | n.a. | F 7 |
| S 8 | 22 54 43 | 11°40'21 | 12♋41 | 29°52 | 21°57 | 8° 0 | 7°25 | 13°32 | 10° 8 | 22° 8 | 19°19 | 10°27 | 11°22 | 2° 9 | n.a. | S 8 |
| S 9 | 22 58 39 | 12°39'42 | 25°54 | 1♍37 | 21°25 | 8°25 | 7°35 | 13°40 | 10° 6 | 22° 8 | 19°19 | 10°21 | 11°19 | 2°16 | n.a. | S 9 |
| M10 | 23 2 36 | 13°39'06 | 8♌55 | 3°22 | 20°51 | 8°51 | 7°46 | 13°47 | 10° 4 | 22° 7 | 19°18 | 10°12 | 11°16 | 2°23 | n.a. | M10 |
| T 11 | 23 6 32 | 14°38'31 | 21°44 | 5° 8 | 20°17 | 9°17 | 7°56 | 13°54 | 10° 1 | 22° 7 | 19°18 | 10° 2 | 11°13 | 2°29 | n.a. | T 11 |
| W12 | 23 10 29 | 15°37'59 | 4♍20 | 6°54 | 19°42 | 9°43 | 8° 7 | 14° 1 | 9°59 | 22° 6 | 19°17 | 9°52 | 11°10 | 2°36 | n.a. | W12 |
| T 13 | 23 14 25 | 16°37'29 | 16°45 | 8°40 | 19° 6 | 10°10 | 8°17 | 14° 9 | 9°57 | 22° 6 | 19°17 | 9°42 | 11° 6 | 2°43 | n.a. | T 13 |
| F 14 | 23 18 22 | 17°37'02 | 28°58 | 10°25 | 18°30 | 10°38 | 8°28 | 14°16 | 9°55 | 22° 5 | 19°16 | 9°34 | 11° 3 | 2°49 | n.a. | F 14 |
| S 15 | 23 22 18 | 18°36'36 | 11♎ 0 | 12°10 | 17°53 | 11° 5 | 8°39 | 14°23 | 9°53 | 22° 5 | 19°16 | 9°27 | 11° 0 | 2°56 | n.a. | S 15 |
| S 16 | 23 26 15 | 19°36'12 | 22°54 | 13°55 | 17°17 | 11°33 | 8°50 | 14°31 | 9°50 | 22° 4 | 19°15 | 9°24 | 10°57 | 3° 2 | n.a. | S 16 |
| M17 | 23 30 11 | 20°35'50 | 4♏42 | 15°40 | 16°40 | 12° 2 | 9° 1 | 14°38 | 9°48 | 22° 4 | 19°15 | 9°D22 | 10°54 | 3° 9 | n.a. | M17 |
| T 18 | 23 34 8 | 21°35'31 | 16°28 | 17°24 | 16° 5 | 12°31 | 9°12 | 14°45 | 9°46 | 22° 3 | 19°14 | 9°22 | 10°51 | 3°16 | n.a. | T 18 |
| W19 | 23 38 5 | 22°35'13 | 28°16 | 19° 7 | 15°30 | 13° 0 | 9°23 | 14°52 | 9°43 | 22° 2 | 19°14 | 9°23 | 10°47 | 3°22 | n.a. | W19 |
| T 20 | 23 42 1 | 23°34'57 | 10♐10 | 20°50 | 14°56 | 13°29 | 9°35 | 15° 0 | 9°41 | 22° 2 | 19°13 | 9°25 | 10°44 | 3°29 | n.a. | T 20 |
| F 21 | 23 45 58 | 24°34'43 | 22°16 | 22°32 | 14°23 | 13°59 | 9°46 | 15° 7 | 9°39 | 22° 1 | 19°13 | 9°R25 | 10°41 | 3°36 | n.a. | F 21 |
| S 22 | 23 49 54 | 25°34'31 | 4♑39 | 24°14 | 13°52 | 14°29 | 9°57 | 15°14 | 9°36 | 22° 0 | 19°12 | 9°25 | 10°38 | 3°42 | n.a. | S 22 |
| S 23 | 23 53 51 | 26°34'20 | 17°24 | 25°55 | 13°22 | 15° 0 | 10° 9 | 15°21 | 9°34 | 21°59 | 19°11 | 9°23 | 10°35 | 3°49 | n.a. | S 23 |
| M24 | 23 57 47 | 27°34'12 | 0♒35 | 27°36 | 12°55 | 15°30 | 10°20 | 15°29 | 9°32 | 21°59 | 19°11 | 9°19 | 10°31 | 3°56 | n.a. | M24 |
| T 25 | 0 1 44 | 28°34'05 | 14°14 | 29°16 | 12°29 | 16° 1 | 10°32 | 15°36 | 9°29 | 21°58 | 19°10 | 9°13 | 10°28 | 4° 2 | n.a. | T 25 |
| W26 | 0 5 40 | 29°34'00 | 28°20 | 0♎55 | 12° 5 | 16°33 | 10°44 | 15°43 | 9°27 | 21°57 | 19° 9 | 9° 7 | 10°25 | 4° 9 | n.a. | W26 |
| T 27 | 0 9 37 | 0♎33'57 | 12♓52 | 2°34 | 11°43 | 17° 4 | 10°56 | 15°50 | 9°24 | 21°56 | 19° 9 | 9° 1 | 10°22 | 4°16 | n.a. | T 27 |
| F 28 | 0 13 34 | 1°33'55 | 27°42 | 4°12 | 11°23 | 17°36 | 11° 7 | 15°57 | 9°22 | 21°55 | 19° 8 | 8°56 | 10°19 | 4°22 | n.a. | F 28 |
| S 29 | 0 17 30 | 2°33'56 | 12♈44 | 5°50 | 11° 6 | 18° 8 | 11°19 | 16° 4 | 9°19 | 21°54 | 19° 7 | 8°52 | 10°16 | 4°29 | n.a. | S 29 |
| S 30 | 0 21 27 | 3♎33'58 | 27♈47 | 7♎27 | 10♍51 | 18♑40 | 11♏31 | 16♍11 | 9♈17 | 21♉53 | 19♉ 7 | 8♉50 | 10♉12 | 4♏35 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 9n52 | 1s11 | 3s 2 | 16n57 | 1n32 | 5s22 | 8s 7 | 27s59 | 4s23 | 13s 4 | 0n44 | 8n52 | 2n 9 | 3n32 | 0s40 | 16n53 | 1s41 | 8n10 | 9s58 | 15n11 | 15n32 | 11s13 | | n.a. |
| S 2 | 9 30 | 5n38 | 1 54 | 16 34 | 1 38 | 5 20 | 8 13 | 27 55 | 4 20 | 13 8 | 0 44 | 8 49 | 2 9 | 3 32 | 0 40 | 16 53 | 1 41 | 8 10 | 9 58 | 15 9 | 15 31 | 11 16 | | n.a. |
| M 3 | 9 8 | 12 6 | 0 39 | 16 8 | 1 43 | 5 17 | 8 19 | 27 51 | 4 17 | 13 11 | 0 43 | 8 46 | 2 9 | 3 31 | 0 40 | 16 53 | 1 41 | 8 10 | 9 58 | 15 9 | 15 30 | 11 19 | | n.a. |
| T 4 | 8 46 | 17 51 | 0n37 | 15 40 | 1 47 | 5 12 | 8 23 | 27 47 | 4 14 | 13 15 | 0 43 | 8 43 | 2 9 | 3 30 | 0 40 | 16 53 | 1 41 | 8 9 | 9 58 | 15 9 | 15 29 | 11 22 | | n.a. |
| W 5 | 8 24 | 22 32 | 1 51 | 15 9 | 1 50 | 5 6 | 8 27 | 27 43 | 4 11 | 13 18 | 0 43 | 8 40 | 2 9 | 3 29 | 0 40 | 16 53 | 1 41 | 8 9 | 9 58 | 15 9 | 15 28 | 11 25 | | n.a. |
| T 6 | 8 1 | 25 50 | 2 56 | 14 37 | 1 53 | 4 58 | 8 31 | 27 38 | 4 8 | 13 21 | 0 43 | 8 37 | 2 9 | 3 29 | 0 40 | 16 52 | 1 42 | 8 9 | 9 58 | 15 9 | 15 27 | 11 29 | | n.a. |
| F 7 | 7 39 | 27 32 | 3 50 | 14 2 | 1 54 | 4 49 | 8 33 | 27 34 | 4 5 | 13 25 | 0 43 | 8 35 | 2 9 | 3 28 | 0 40 | 16 52 | 1 42 | 8 9 | 9 59 | 15 8 | 15 26 | 11 32 | | n.a. |
| S 8 | 7 16 | 27 35 | 4 30 | 13 26 | 1 55 | 4 38 | 8 35 | 27 29 | 4 2 | 13 28 | 0 42 | 8 32 | 2 9 | 3 27 | 0 40 | 16 52 | 1 42 | 8 9 | 9 59 | 15 7 | 15 25 | 11 35 | | n.a. |
| S 9 | 6 53 | 26 2 | 4 56 | 12 48 | 1 54 | 4 27 | 8 36 | 27 25 | 3 59 | 13 32 | 0 42 | 8 29 | 2 10 | 3 26 | 0 40 | 16 52 | 1 42 | 8 8 | 9 59 | 15 5 | 15 24 | 11 38 | | n.a. |
| M10 | 6 30 | 23 7 | 5 5 | 12 8 | 1 54 | 4 13 | 8 35 | 27 20 | 3 56 | 13 36 | 0 42 | 8 26 | 2 10 | 3 25 | 0 40 | 16 52 | 1 42 | 8 8 | 9 59 | 15 3 | 15 23 | 11 41 | | n.a. |
| T 11 | 6 7 | 19 7 | 4 59 | 11 28 | 1 52 | 3 59 | 8 34 | 27 15 | 3 53 | 13 39 | 0 42 | 8 23 | 2 10 | 3 24 | 0 40 | 16 52 | 1 42 | 8 8 | 9 59 | 14 59 | 15 22 | 11 44 | | n.a. |
| W12 | 5 44 | 14 20 | 4 38 | 10 47 | 1 50 | 3 43 | 8 33 | 27 10 | 3 50 | 13 43 | 0 42 | 8 21 | 2 10 | 3 23 | 0 40 | 16 52 | 1 42 | 8 8 | 9 59 | 14 56 | 15 21 | 11 47 | | n.a. |
| T 13 | 5 20 | 9 2 | 4 4 | 10 4 | 1 47 | 3 27 | 8 30 | 27 5 | 3 47 | 13 46 | 0 41 | 8 18 | 2 10 | 3 23 | 0 40 | 16 51 | 1 42 | 8 7 | 9 59 | 14 53 | 15 20 | 11 50 | | n.a. |
| F 14 | 4 57 | 3 28 | 3 20 | 9 21 | 1 44 | 3 9 | 8 26 | 27 0 | 3 44 | 13 50 | 0 41 | 8 15 | 2 10 | 3 22 | 0 40 | 16 51 | 1 42 | 8 7 | 10 0 | 14 50 | 15 19 | 11 54 | | n.a. |
| S 15 | 4 33 | 2s 9 | 2 27 | 8 37 | 1 41 | 2 50 | 8 21 | 26 55 | 3 42 | 13 54 | 0 41 | 8 12 | 2 10 | 3 21 | 0 40 | 16 51 | 1 42 | 8 7 | 10 0 | 14 48 | 15 18 | 11 57 | | n.a. |
| S 16 | 4 10 | 7 39 | 1 28 | 7 53 | 1 37 | 2 31 | 8 15 | 26 50 | 3 39 | 13 57 | 0 41 | 8 9 | 2 10 | 3 20 | 0 40 | 16 51 | 1 42 | 8 6 | 10 0 | 14 47 | 15 17 | 12 0 | | n.a. |
| M17 | 3 46 | 12 50 | 0 25 | 7 8 | 1 33 | 2 11 | 8 9 | 26 44 | 3 36 | 14 1 | 0 41 | 8 7 | 2 10 | 3 19 | 0 40 | 16 51 | 1 42 | 8 6 | 10 0 | 14 46 | 15 16 | 12 3 | | n.a. |
| T 18 | 3 22 | 17 34 | 0s38 | 6 23 | 1 28 | 1 50 | 8 1 | 26 39 | 3 33 | 14 5 | 0 41 | 8 4 | 2 10 | 3 18 | 0 40 | 16 50 | 1 42 | 8 6 | 10 0 | 14 46 | 15 15 | 12 6 | | n.a. |
| W19 | 2 58 | 21 38 | 1 41 | 5 38 | 1 23 | 1 29 | 7 53 | 26 33 | 3 30 | 14 9 | 0 40 | 8 1 | 2 10 | 3 17 | 0 40 | 16 50 | 1 42 | 8 6 | 10 0 | 14 47 | 15 14 | 12 9 | | n.a. |
| T 20 | 2 35 | 24 51 | 2 39 | 4 52 | 1 18 | 1 8 | 7 44 | 26 27 | 3 27 | 14 12 | 0 40 | 7 58 | 2 10 | 3 16 | 0 40 | 16 50 | 1 42 | 8 5 | 10 0 | 14 47 | 15 13 | 12 12 | | n.a. |
| F 21 | 2 11 | 27 0 | 3 32 | 4 6 | 1 13 | 0 46 | 7 34 | 26 21 | 3 25 | 14 16 | 0 40 | 7 55 | 2 10 | 3 15 | 0 40 | 16 50 | 1 42 | 8 5 | 10 1 | 14 48 | 15 12 | 12 15 | | n.a. |
| S 22 | 1 47 | 27 53 | 4 15 | 3 21 | 1 7 | 0 24 | 7 24 | 26 15 | 3 22 | 14 20 | 0 40 | 7 53 | 2 10 | 3 14 | 0 40 | 16 50 | 1 42 | 8 5 | 10 1 | 14 47 | 15 11 | 12 18 | | n.a. |
| S 23 | 1 23 | 27 19 | 4 48 | 2 35 | 1 2 | 0 3 | 7 13 | 26 9 | 3 19 | 14 24 | 0 40 | 7 50 | 2 10 | 3 13 | 0 40 | 16 49 | 1 42 | 8 4 | 10 1 | 14 47 | 15 10 | 12 22 | | n.a. |
| M24 | 0 59 | 25 14 | 5 7 | 1 49 | 0 56 | 0n19 | 7 1 | 26 3 | 3 16 | 14 28 | 0 40 | 7 47 | 2 10 | 3 12 | 0 40 | 16 49 | 1 42 | 8 4 | 10 1 | 14 45 | 15 9 | 12 25 | | n.a. |
| T 25 | 0 35 | 21 40 | 5 9 | 1 3 | 0 50 | 0 40 | 6 49 | 25 56 | 3 14 | 14 31 | 0 39 | 7 44 | 2 10 | 3 11 | 0 40 | 16 49 | 1 42 | 8 4 | 10 1 | 14 44 | 15 8 | 12 28 | | n.a. |
| W26 | 0 10 | 16 45 | 4 53 | 0 18 | 0 43 | 1 0 | 6 36 | 25 50 | 3 11 | 14 35 | 0 39 | 7 42 | 2 10 | 3 10 | 0 40 | 16 49 | 1 42 | 8 4 | 10 1 | 14 42 | 15 7 | 12 31 | | n.a. |
| T 27 | 0s14 | 10 46 | 4 18 | 0s28 | 0 37 | 1 21 | 6 23 | 25 43 | 3 8 | 14 39 | 0 39 | 7 39 | 2 11 | 3 10 | 0 40 | 16 48 | 1 42 | 8 3 | 10 1 | 14 40 | 15 6 | 12 34 | | n.a. |
| F 28 | 0 38 | 4 3 | 3 25 | 1 13 | 0 31 | 1 40 | 6 10 | 25 36 | 3 6 | 14 43 | 0 39 | 7 36 | 2 11 | 3 9 | 0 40 | 16 48 | 1 43 | 8 3 | 10 2 | 14 38 | 15 5 | 12 37 | | n.a. |
| S 29 | 1 2 | 2n58 | 2 18 | 1 58 | 0 24 | 1 59 | 5 56 | 25 29 | 3 3 | 14 47 | 0 39 | 7 33 | 2 11 | 3 8 | 0 40 | 16 48 | 1 43 | 8 3 | 10 2 | 14 37 | 15 4 | 12 40 | | n.a. |
| S 30 | 1s26 | 9n52 | 1s 0 | 2s43 | 0n18 | 2n18 | 5s43 | 25s22 | 3s 0 | 14s51 | 0n39 | 7n31 | 2n11 | 3n 7 | 0s40 | 16n47 | 1s43 | 8n 2 | 10s 2 | 14n36 | 15n 3 | 12s43 | | n.a. |

Julian Day Number = 1691715.5, Delta T = 03h10m08s
Ecliptic obliquity = 23°42'25, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°11'15, Lahiri = - 5°04'15 Julian Calendar 1 Sept. 82 BCE == Greg. Calendar 30 Aug. 082 BCE

The year -81 astronomical counting style corresponds to year 082 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 82 BCE
# geocentric

## OCTOBER 82 BCE (-81) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 0 25 23 | 4♎34'03 | 12♉44 | 9♎ 4 | 10°R39 | 19♏13 | 11♏43 | 16♍18 | 9°R14 | 21°R52 | 19°R 6 | 8°D49 | 10♉ 9 | 4♏42 | n.a. | M 1 |
| T 2 | 0 29 20 | 5°34'10 | 27°26 | 10°40 | 10♍29 | 19°46 | 11°56 | 16°26 | 9♈12 | 21♉51 | 19♉ 5 | 8♉50 | 10° 6 | 4°49 | n.a. | T 2 |
| W 3 | 0 33 16 | 6°34'19 | 11♊50 | 12°16 | 10°22 | 20°19 | 12° 8 | 16°33 | 9° 9 | 21°50 | 19° 4 | 8°52 | 10° 3 | 4°55 | n.a. | W 3 |
| T 4 | 0 37 13 | 7°34'31 | 25°53 | 13°51 | 10°17 | 20°52 | 12°20 | 16°40 | 9° 7 | 21°49 | 19° 3 | 8°53 | 10° 0 | 5° 2 | n.a. | T 4 |
| F 5 | 0 41 9 | 8°34'45 | 9♋34 | 15°26 | 10°D15 | 21°25 | 12°32 | 16°47 | 9° 5 | 21°48 | 19° 3 | 8°R53 | 9°57 | 5° 9 | n.a. | F 5 |
| S 6 | 0 45 6 | 9°35'01 | 22°55 | 17° 0 | 10°15 | 21°59 | 12°45 | 16°53 | 9° 2 | 21°47 | 19° 2 | 8°53 | 9°53 | 5°15 | n.a. | S 6 |
| S 7 | 0 49 3 | 10°35'19 | 5♌57 | 18°34 | 10°17 | 22°33 | 12°57 | 17° 0 | 9° 0 | 21°45 | 19° 1 | 8°50 | 9°50 | 5°22 | n.a. | S 7 |
| M 8 | 0 52 59 | 11°35'39 | 18°43 | 20° 8 | 10°22 | 23° 7 | 13°10 | 17° 7 | 8°57 | 21°44 | 19° 0 | 8°47 | 9°47 | 5°29 | n.a. | M 8 |
| T 9 | 0 56 56 | 12°36'01 | 1♍14 | 21°41 | 10°29 | 23°41 | 13°22 | 17°14 | 8°55 | 21°43 | 18°59 | 8°43 | 9°44 | 5°35 | n.a. | T 9 |
| W10 | 1 0 52 | 13°36'25 | 13°34 | 23°14 | 10°39 | 24°16 | 13°35 | 17°21 | 8°52 | 21°42 | 18°58 | 8°38 | 9°41 | 5°42 | n.a. | W10 |
| T 11 | 1 4 49 | 14°36'51 | 25°43 | 24°47 | 10°50 | 24°50 | 13°48 | 17°28 | 8°50 | 21°41 | 18°57 | 8°34 | 9°37 | 5°49 | n.a. | T 11 |
| F 12 | 1 8 45 | 15°37'19 | 7♎44 | 26°19 | 11° 4 | 25°25 | 14° 0 | 17°34 | 8°47 | 21°39 | 18°56 | 8°31 | 9°34 | 5°55 | n.a. | F 12 |
| S 13 | 1 12 42 | 16°37'48 | 19°39 | 27°50 | 11°20 | 26° 0 | 14°13 | 17°41 | 8°45 | 21°38 | 18°55 | 8°28 | 9°31 | 6° 2 | n.a. | S 13 |
| S 14 | 1 16 38 | 17°38'19 | 1♏28 | 29°22 | 11°38 | 26°35 | 14°26 | 17°48 | 8°42 | 21°37 | 18°54 | 8°27 | 9°28 | 6° 9 | n.a. | S 14 |
| M15 | 1 20 35 | 18°38'52 | 13°15 | 0♏53 | 11°58 | 27°11 | 14°39 | 17°54 | 8°40 | 21°35 | 18°53 | 8°D27 | 9°25 | 6°15 | n.a. | M15 |
| T 16 | 1 24 31 | 19°39'27 | 25° 1 | 2°24 | 12°20 | 27°46 | 14°52 | 18° 1 | 8°37 | 21°34 | 18°52 | 8°28 | 9°22 | 6°22 | n.a. | T 16 |
| W17 | 1 28 28 | 20°40'03 | 6♐51 | 3°54 | 12°43 | 28°22 | 15° 5 | 18° 8 | 8°35 | 21°32 | 18°51 | 8°29 | 9°18 | 6°28 | n.a. | W17 |
| T 18 | 1 32 25 | 21°40'41 | 18°46 | 5°24 | 13° 9 | 28°58 | 15°18 | 18°14 | 8°33 | 21°31 | 18°50 | 8°31 | 9°15 | 6°35 | n.a. | T 18 |
| F 19 | 1 36 21 | 22°41'20 | 0♑52 | 6°54 | 13°36 | 29°34 | 15°31 | 18°21 | 8°30 | 21°30 | 18°49 | 8°32 | 9°12 | 6°42 | n.a. | F 19 |
| S 20 | 1 40 18 | 23°42'00 | 13°13 | 8°23 | 14° 5 | 0♒10 | 15°44 | 18°27 | 8°28 | 21°28 | 18°48 | 8°33 | 9° 9 | 6°48 | n.a. | S 20 |
| S 21 | 1 44 14 | 24°42'41 | 25°53 | 9°52 | 14°35 | 0°46 | 15°57 | 18°33 | 8°26 | 21°27 | 18°47 | 8°R33 | 9° 6 | 6°55 | n.a. | S 21 |
| M22 | 1 48 11 | 25°43'24 | 8♒56 | 11°21 | 15° 7 | 1°23 | 16°10 | 18°40 | 8°23 | 21°25 | 18°46 | 8°33 | 9° 3 | 7° 2 | n.a. | M22 |
| T 23 | 1 52 7 | 26°44'08 | 22°26 | 12°49 | 15°41 | 1°59 | 16°24 | 18°46 | 8°21 | 21°24 | 18°45 | 8°32 | 8°59 | 7° 8 | n.a. | T 23 |
| W24 | 1 56 4 | 27°44'53 | 6♓23 | 14°16 | 16°15 | 2°36 | 16°37 | 18°52 | 8°19 | 21°22 | 18°44 | 8°31 | 8°56 | 7°15 | n.a. | W24 |
| T 25 | 2 0 1 | 28°45'39 | 20°48 | 15°43 | 16°52 | 3°13 | 16°50 | 18°58 | 8°16 | 21°21 | 18°43 | 8°29 | 8°53 | 7°22 | n.a. | T 25 |
| F 26 | 2 3 57 | 29°46'27 | 5♈36 | 17°10 | 17°29 | 3°50 | 17° 3 | 19° 5 | 8°14 | 21°19 | 18°42 | 8°28 | 8°50 | 7°28 | n.a. | F 26 |
| S 27 | 2 7 54 | 0♏47'15 | 20°42 | 18°36 | 18° 8 | 4°27 | 17°17 | 19°11 | 8°12 | 21°17 | 18°41 | 8°28 | 8°47 | 7°35 | n.a. | S 27 |
| S 28 | 2 11 50 | 1°48'05 | 5♉56 | 20° 0 | 18°48 | 5° 4 | 17°30 | 19°17 | 8°10 | 21°16 | 18°40 | 8°D27 | 8°43 | 7°42 | n.a. | S 28 |
| M29 | 2 15 47 | 2°48'56 | 21° 9 | 21°25 | 19°30 | 5°41 | 17°44 | 19°23 | 8° 7 | 21°14 | 18°39 | 8°27 | 8°40 | 7°48 | n.a. | M29 |
| T 30 | 2 19 43 | 3°49'49 | 6♊10 | 22°48 | 20°12 | 6°19 | 17°57 | 19°29 | 8° 5 | 21°13 | 18°38 | 8°28 | 8°37 | 7°55 | n.a. | T 30 |
| W31 | 2 23 40 | 4♏50'43 | 20♊54 | 24♏ 9 | 20♍56 | 6♒56 | 18♏10 | 19♍34 | 8♈ 3 | 21♉11 | 18♉36 | 8♉28 | 8♉34 | 8♏ 1 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| M 1 | 1s50 | 16n10 | 0n21 | 3s28 | 0n11 | 2n35 | 5s29 | 25s15 | 2s58 | 14s55 | 0n39 | 7n28 | 2n11 | 3n 6 | 0s40 | 16n47 | 1s43 | 8n 2 | 10s 2 | 14n36 | 15n 2 | 12s46 | | | n.a. |
| T 2 | 2 14 | 21 26 | 1 40 | 4 12 | 0 5 | 2 52 | 5 15 | 25 7 | 2 55 | 14 59 | 0 38 | 7 25 | 2 11 | 3 5 | 0 40 | 16 47 | 1 43 | 8 2 | 10 2 | 14 36 | 15 1 | 12 49 | | | n.a. |
| W 3 | 2 38 | 25 17 | 2 51 | 4 56 | 0s 2 | 3 8 | 5 1 | 25 0 | 2 53 | 15 2 | 0 38 | 7 23 | 2 11 | 3 4 | 0 40 | 16 46 | 1 43 | 8 1 | 10 2 | 14 37 | 15 0 | 12 52 | | | n.a. |
| T 4 | 3 2 | 27 28 | 3 50 | 5 39 | 0 9 | 3 23 | 4 46 | 24 52 | 2 50 | 15 6 | 0 38 | 7 20 | 2 11 | 3 3 | 0 40 | 16 46 | 1 43 | 8 1 | 10 2 | 14 37 | 14 59 | 12 55 | | | n.a. |
| F 5 | 3 26 | 27 54 | 4 34 | 6 23 | 0 15 | 3 37 | 4 32 | 24 44 | 2 48 | 15 10 | 0 38 | 7 17 | 2 11 | 3 2 | 0 40 | 16 46 | 1 43 | 8 1 | 10 2 | 14 37 | 14 58 | 12 59 | | | n.a. |
| S 6 | 3 50 | 26 41 | 5 2 | 7 5 | 0 22 | 3 50 | 4 18 | 24 36 | 2 45 | 15 14 | 0 38 | 7 15 | 2 11 | 3 1 | 0 40 | 16 46 | 1 43 | 8 0 | 10 2 | 14 37 | 14 57 | 13 2 | | | n.a. |
| S 7 | 4 14 | 24 3 | 5 13 | 7 48 | 0 29 | 4 2 | 4 4 | 24 28 | 2 43 | 15 18 | 0 38 | 7 12 | 2 12 | 3 0 | 0 40 | 16 45 | 1 43 | 8 0 | 10 3 | 14 36 | 14 56 | 13 5 | | | n.a. |
| M 8 | 4 38 | 20 16 | 5 9 | 8 30 | 0 35 | 4 13 | 3 51 | 24 20 | 2 40 | 15 22 | 0 38 | 7 9 | 2 12 | 2 59 | 0 40 | 16 45 | 1 43 | 8 0 | 10 3 | 14 35 | 14 55 | 13 8 | | | n.a. |
| T 9 | 5 2 | 15 40 | 4 50 | 9 11 | 0 42 | 4 23 | 3 37 | 24 12 | 2 38 | 15 26 | 0 37 | 7 7 | 2 12 | 2 58 | 0 40 | 16 44 | 1 43 | 7 59 | 10 3 | 14 34 | 14 53 | 13 11 | | | n.a. |
| W10 | 5 26 | 10 29 | 4 18 | 9 52 | 0 48 | 4 31 | 3 23 | 24 3 | 2 35 | 15 30 | 0 37 | 7 4 | 2 12 | 2 57 | 0 40 | 16 44 | 1 43 | 7 59 | 10 3 | 14 32 | 14 52 | 13 14 | | | n.a. |
| T 11 | 5 49 | 4 59 | 3 34 | 10 33 | 0 54 | 4 39 | 3 10 | 23 54 | 2 33 | 15 34 | 0 37 | 7 2 | 2 12 | 2 56 | 0 40 | 16 44 | 1 43 | 7 59 | 10 3 | 14 31 | 14 51 | 13 17 | | | n.a. |
| F 12 | 6 13 | 0s38 | 2 41 | 11 12 | 1 1 | 4 46 | 2 57 | 23 46 | 2 31 | 15 38 | 0 37 | 6 59 | 2 12 | 2 55 | 0 40 | 16 43 | 1 43 | 7 58 | 10 3 | 14 30 | 14 50 | 13 20 | | | n.a. |
| S 13 | 6 36 | 6 12 | 1 42 | 11 52 | 1 7 | 4 52 | 2 44 | 23 37 | 2 28 | 15 42 | 0 37 | 6 57 | 2 12 | 2 54 | 0 40 | 16 43 | 1 43 | 7 58 | 10 3 | 14 29 | 14 49 | 13 23 | | | n.a. |
| S 14 | 7 0 | 11 31 | 0 38 | 12 30 | 1 13 | 4 57 | 2 31 | 23 27 | 2 26 | 15 46 | 0 37 | 6 54 | 2 12 | 2 53 | 0 40 | 16 43 | 1 43 | 7 58 | 10 3 | 14 29 | 14 48 | 13 26 | | | n.a. |
| M15 | 7 23 | 16 25 | 0s27 | 13 8 | 1 19 | 5 1 | 2 19 | 23 18 | 2 24 | 15 50 | 0 37 | 6 52 | 2 13 | 2 52 | 0 40 | 16 42 | 1 43 | 7 57 | 10 3 | 14 29 | 14 47 | 13 29 | | | n.a. |
| T 16 | 7 46 | 20 42 | 1 30 | 13 46 | 1 25 | 5 4 | 2 7 | 23 9 | 2 21 | 15 54 | 0 36 | 6 49 | 2 13 | 2 51 | 0 40 | 16 42 | 1 43 | 7 57 | 10 3 | 14 29 | 14 46 | 13 32 | | | n.a. |
| W17 | 8 9 | 24 10 | 2 31 | 14 22 | 1 30 | 5 6 | 1 55 | 22 59 | 2 19 | 15 58 | 0 36 | 6 47 | 2 13 | 2 50 | 0 40 | 16 42 | 1 43 | 7 57 | 10 3 | 14 29 | 14 45 | 13 35 | | | n.a. |
| T 18 | 8 32 | 26 38 | 3 25 | 14 58 | 1 36 | 5 7 | 1 43 | 22 50 | 2 17 | 16 2 | 0 36 | 6 44 | 2 13 | 2 49 | 0 40 | 16 41 | 1 43 | 7 56 | 10 3 | 14 30 | 14 44 | 13 38 | | | n.a. |
| F 19 | 8 55 | 27 54 | 4 11 | 15 34 | 1 41 | 5 7 | 1 32 | 22 40 | 2 15 | 16 6 | 0 36 | 6 42 | 2 13 | 2 48 | 0 40 | 16 41 | 1 43 | 7 56 | 10 3 | 14 30 | 14 43 | 13 41 | | | n.a. |
| S 20 | 9 18 | 27 48 | 4 47 | 16 8 | 1 46 | 5 6 | 1 20 | 22 30 | 2 12 | 16 10 | 0 36 | 6 39 | 2 13 | 2 47 | 0 40 | 16 40 | 1 43 | 7 56 | 10 4 | 14 31 | 14 42 | 13 44 | | | n.a. |
| S 21 | 9 41 | 26 16 | 5 10 | 16 42 | 1 51 | 5 4 | 1 10 | 22 20 | 2 10 | 16 14 | 0 36 | 6 37 | 2 13 | 2 46 | 0 40 | 16 40 | 1 43 | 7 55 | 10 4 | 14 31 | 14 41 | 13 47 | | | n.a. |
| M22 | 10 3 | 23 19 | 5 17 | 17 14 | 1 56 | 5 1 | 0 59 | 22 9 | 2 8 | 16 18 | 0 36 | 6 35 | 2 14 | 2 45 | 0 40 | 16 40 | 1 43 | 7 55 | 10 4 | 14 31 | 14 40 | 13 50 | | | n.a. |
| T 23 | 10 25 | 19 2 | 5 8 | 17 46 | 2 0 | 4 58 | 0 49 | 21 59 | 2 6 | 16 21 | 0 36 | 6 32 | 2 14 | 2 45 | 0 40 | 16 39 | 1 43 | 7 55 | 10 4 | 14 30 | 14 39 | 13 53 | | | n.a. |
| W24 | 10 47 | 13 36 | 4 41 | 18 17 | 2 5 | 4 53 | 0 38 | 21 48 | 2 4 | 16 25 | 0 35 | 6 30 | 2 14 | 2 44 | 0 40 | 16 39 | 1 43 | 7 55 | 10 4 | 14 30 | 14 38 | 13 57 | | | n.a. |
| T 25 | 11 9 | 7 17 | 3 55 | 18 47 | 2 9 | 4 48 | 0 29 | 21 38 | 2 2 | 16 29 | 0 35 | 6 28 | 2 14 | 2 43 | 0 39 | 16 38 | 1 43 | 7 54 | 10 4 | 14 29 | 14 37 | 14 0 | | | n.a. |
| F 26 | 11 31 | 0 23 | 2 53 | 19 15 | 2 12 | 4 42 | 0 19 | 21 27 | 1 59 | 16 33 | 0 35 | 6 25 | 2 14 | 2 42 | 0 39 | 16 38 | 1 43 | 7 54 | 10 4 | 14 29 | 14 36 | 14 3 | | | n.a. |
| S 27 | 11 53 | 6n40 | 1 37 | 19 43 | 2 15 | 4 35 | 0 10 | 21 16 | 1 57 | 16 37 | 0 35 | 6 23 | 2 14 | 2 41 | 0 39 | 16 37 | 1 43 | 7 54 | 10 4 | 14 29 | 14 35 | 14 6 | | | n.a. |
| S 28 | 12 14 | 13 26 | 0 14 | 20 9 | 2 18 | 4 28 | 0 1 | 21 5 | 1 55 | 16 41 | 0 35 | 6 21 | 2 15 | 2 40 | 0 39 | 16 37 | 1 43 | 7 53 | 10 4 | 14 29 | 14 34 | 14 9 | | | n.a. |
| M29 | 12 35 | 19 22 | 1n10 | 20 35 | 2 21 | 4 19 | 0n 8 | 20 53 | 1 53 | 16 45 | 0 35 | 6 19 | 2 15 | 2 39 | 0 39 | 16 37 | 1 43 | 7 53 | 10 4 | 14 29 | 14 33 | 14 12 | | | n.a. |
| T 30 | 12 56 | 24 1 | 2 28 | 20 59 | 2 23 | 4 10 | 0 16 | 20 42 | 1 51 | 16 49 | 0 35 | 6 17 | 2 15 | 2 38 | 0 39 | 16 36 | 1 43 | 7 53 | 10 4 | 14 29 | 14 32 | 14 15 | | | n.a. |
| W31 | 13s17 | 26n58 | 3n35 | 21s21 | 2s25 | 4n 1 | 0n25 | 20s30 | 1s49 | 16s53 | 0n35 | 6n14 | 2n15 | 2n38 | 0s39 | 16n36 | 1s43 | 7n52 | 10s 4 | 14n29 | 14n31 | 14s18 | | | n.a. |

Julian Day Number = 1691745.5, Delta T = 03h10m07s
Ecliptic obliquity = 23°42'25, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°11'11, Lahiri = - 5°04'10 Julian Calendar 1 Oct. 82 BCE == Greg. Calendar 29 Sept. 082 BCE

The year -81 astronomical counting style corresponds to year 082 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 82 BCE
# geocentric

## NOVEMBER 82 BCE (-81) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 2 27 36 | 5♏51'39 | 5♋13 | 25♏30 | 21♍41 | 7♒34 | 18♏24 | 19♍40 | 8°R 1 | 21°R 9 | 18°R35 | 8♉28 | 8♉31 | 8♏ 8 | n.a. | T 1 |
| F 2 | 2 31 33 | 6°52'36 | 19° 6 | 26°49 | 22°26 | 8°11 | 18°37 | 19°46 | 7♈59 | 21♉ 8 | 18♉34 | 8°29 | 8°28 | 8°15 | n.a. | F 2 |
| S 3 | 2 35 30 | 7°53'34 | 2♌32 | 28° 6 | 23°13 | 8°49 | 18°51 | 19°52 | 7°57 | 21° 6 | 18°33 | 8°29 | 8°24 | 8°21 | n.a. | S 3 |
| S 4 | 2 39 26 | 8°54'34 | 15°34 | 29°22 | 24° 1 | 9°27 | 19° 5 | 19°57 | 7°55 | 21° 5 | 18°32 | 8°29 | 8°21 | 8°28 | n.a. | S 4 |
| M 5 | 2 43 23 | 9°55'35 | 28°15 | 0♐34 | 24°49 | 10° 5 | 19°18 | 20° 3 | 7°53 | 21° 3 | 18°31 | 8°29 | 8°18 | 8°35 | n.a. | M 5 |
| T 6 | 2 47 19 | 10°56'38 | 10♍38 | 1°45 | 25°39 | 10°43 | 19°32 | 20° 8 | 7°51 | 21° 1 | 18°30 | 8°29 | 8°15 | 8°41 | n.a. | T 6 |
| W 7 | 2 51 16 | 11°57'41 | 22°47 | 2°52 | 26°29 | 11°21 | 19°45 | 20°14 | 7°49 | 21° 0 | 18°28 | 8°29 | 8°12 | 8°48 | n.a. | W 7 |
| T 8 | 2 55 12 | 12°58'46 | 4♎46 | 3°56 | 27°20 | 11°59 | 19°59 | 20°19 | 7°47 | 20°58 | 18°27 | 8°30 | 8° 9 | 8°55 | n.a. | T 8 |
| F 9 | 2 59 9 | 13°59'52 | 16°38 | 4°55 | 28°12 | 12°38 | 20°13 | 20°24 | 7°45 | 20°56 | 18°26 | 8°30 | 8° 5 | 9° 1 | n.a. | F 9 |
| S 10 | 3 3 5 | 15° 0'59 | 28°26 | 5°50 | 29° 5 | 13°16 | 20°26 | 20°30 | 7°43 | 20°54 | 18°25 | 8°31 | 8° 2 | 9° 8 | n.a. | S 10 |
| S 11 | 3 7 2 | 16° 2'07 | 10♏13 | 6°39 | 29°58 | 13°54 | 20°40 | 20°35 | 7°41 | 20°53 | 18°24 | 8°R31 | 7°59 | 9°15 | n.a. | S 11 |
| M12 | 3 10 59 | 17° 3'16 | 22° 1 | 7°23 | 0♎52 | 14°33 | 20°54 | 20°40 | 7°40 | 20°51 | 18°23 | 8°31 | 7°56 | 9°21 | n.a. | M12 |
| T 13 | 3 14 55 | 18° 4'25 | 3♐52 | 7°59 | 1°47 | 15°11 | 21° 7 | 20°45 | 7°38 | 20°49 | 18°21 | 8°30 | 7°53 | 9°28 | n.a. | T 13 |
| W14 | 3 18 52 | 19° 5'35 | 15°48 | 8°28 | 2°42 | 15°50 | 21°21 | 20°50 | 7°36 | 20°48 | 18°20 | 8°28 | 7°49 | 9°35 | n.a. | W14 |
| T 15 | 3 22 48 | 20° 6'46 | 27°51 | 8°48 | 3°38 | 16°29 | 21°35 | 20°55 | 7°35 | 20°46 | 18°19 | 8°27 | 7°46 | 9°41 | n.a. | T 15 |
| F 16 | 3 26 45 | 21° 7'58 | 10♑ 4 | 8°59 | 4°35 | 17° 8 | 21°48 | 21° 0 | 7°33 | 20°44 | 18°18 | 8°25 | 7°43 | 9°48 | n.a. | F 16 |
| S 17 | 3 30 41 | 22° 9'10 | 22°29 | 8°R59 | 5°32 | 17°47 | 22° 2 | 21° 4 | 7°31 | 20°43 | 18°17 | 8°23 | 7°40 | 9°54 | n.a. | S 17 |
| S 18 | 3 34 38 | 23°10'22 | 5♒10 | 8°48 | 6°29 | 18°26 | 22°16 | 21° 9 | 7°30 | 20°41 | 18°16 | 8°22 | 7°37 | 10° 1 | n.a. | S 18 |
| M19 | 3 38 34 | 24°11'34 | 18° 9 | 8°26 | 7°28 | 19° 5 | 22°29 | 21°13 | 7°28 | 20°39 | 18°14 | 8°D21 | 7°34 | 10° 8 | n.a. | M19 |
| T 20 | 3 42 31 | 25°12'47 | 1♓29 | 7°52 | 8°26 | 19°44 | 22°43 | 21°18 | 7°27 | 20°37 | 18°13 | 8°21 | 7°30 | 10°14 | n.a. | T 20 |
| W21 | 3 46 28 | 26°14'00 | 15°12 | 7° 7 | 9°25 | 20°23 | 22°57 | 21°22 | 7°26 | 20°36 | 18°12 | 8°22 | 7°27 | 10°21 | n.a. | W21 |
| T 22 | 3 50 24 | 27°15'12 | 29°20 | 6°11 | 10°25 | 21° 2 | 23°10 | 21°27 | 7°24 | 20°34 | 18°11 | 8°23 | 7°24 | 10°28 | n.a. | T 22 |
| F 23 | 3 54 21 | 28°16'25 | 13♈51 | 5° 5 | 11°25 | 21°41 | 23°24 | 21°31 | 7°23 | 20°32 | 18°10 | 8°24 | 7°21 | 10°34 | n.a. | F 23 |
| S 24 | 3 58 17 | 29°17'38 | 28°42 | 3°51 | 12°26 | 22°20 | 23°38 | 21°35 | 7°22 | 20°31 | 18° 9 | 8°25 | 7°18 | 10°41 | n.a. | S 24 |
| S 25 | 4 2 14 | 0♐18'52 | 13♉47 | 2°32 | 13°27 | 23° 0 | 23°52 | 21°39 | 7°20 | 20°29 | 18° 8 | 8°R25 | 7°14 | 10°48 | n.a. | S 25 |
| M26 | 4 6 10 | 1°20'05 | 28°58 | 1°10 | 14°28 | 23°39 | 24° 5 | 21°43 | 7°19 | 20°27 | 18° 6 | 8°24 | 7°11 | 10°54 | n.a. | M26 |
| T 27 | 4 10 7 | 2°21'19 | 14♊ 5 | 29♏48 | 15°30 | 24°18 | 24°19 | 21°47 | 7°18 | 20°26 | 18° 5 | 8°22 | 7° 8 | 11° 1 | n.a. | T 27 |
| W28 | 4 14 3 | 3°22'33 | 28°58 | 28°29 | 16°32 | 24°58 | 24°32 | 21°51 | 7°17 | 20°24 | 18° 4 | 8°19 | 7° 5 | 11° 8 | n.a. | W28 |
| T 29 | 4 18 0 | 4°23'48 | 13♋31 | 27°14 | 17°35 | 25°37 | 24°46 | 21°54 | 7°16 | 20°22 | 18° 3 | 8°15 | 7° 2 | 11°14 | n.a. | T 29 |
| F 30 | 4 21 57 | 5♐25'03 | 27♋36 | 26♏ 7 | 18♎38 | 26♒16 | 25♏ 0 | 21♍58 | 7♈15 | 20♉21 | 18♉ 2 | 8♉11 | 6♉59 | 11♏21 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 13 s37 | 28n 2 | 4n26 | 21 s42 | 2 s26 | 3n50 | 0n33 | 20 s19 | 1 s47 | 16 s57 | 0n35 | 6n12 | 2n15 | 2n37 | 0 s39 | 16n35 | 1 s43 | 7n52 | 10 s 4 | 14n29 | 14n30 | 14 s21 | | n.a. |
| F 2 | 13 58 | 27 17 | 5 0 | 22 2 | 2 26 | 3 39 | 0 40 | 20 7 | 1 45 | 17 1 | 0 34 | 6 10 | 2 16 | 2 36 | 0 39 | 16 35 | 1 43 | 7 52 | 10 4 | 14 29 | 14 29 | 14 24 | | n.a. |
| S 3 | 14 18 | 24 56 | 5 16 | 22 20 | 2 26 | 3 27 | 0 48 | 19 55 | 1 43 | 17 4 | 0 34 | 6 8 | 2 16 | 2 35 | 0 39 | 16 34 | 1 43 | 7 51 | 10 4 | 14 29 | 14 28 | 14 27 | | n.a. |
| S 4 | 14 38 | 21 22 | 5 16 | 22 36 | 2 26 | 3 15 | 0 55 | 19 43 | 1 41 | 17 8 | 0 34 | 6 6 | 2 16 | 2 34 | 0 39 | 16 34 | 1 43 | 7 51 | 10 4 | 14 29 | 14 27 | 14 30 | | n.a. |
| M 5 | 14 57 | 16 53 | 4 59 | 22 51 | 2 24 | 3 1 | 1 2 | 19 31 | 1 39 | 17 12 | 0 34 | 6 4 | 2 16 | 2 34 | 0 39 | 16 33 | 1 43 | 7 51 | 10 4 | 14 29 | 14 26 | 14 33 | | n.a. |
| T 6 | 15 17 | 11 49 | 4 30 | 23 4 | 2 22 | 2 48 | 1 9 | 19 18 | 1 38 | 17 16 | 0 34 | 6 2 | 2 16 | 2 33 | 0 39 | 16 33 | 1 43 | 7 51 | 10 4 | 14 29 | 14 25 | 14 36 | | n.a. |
| W 7 | 15 36 | 6 23 | 3 48 | 23 15 | 2 20 | 2 33 | 1 15 | 19 6 | 1 36 | 17 20 | 0 34 | 6 0 | 2 17 | 2 32 | 0 39 | 16 33 | 1 43 | 7 50 | 10 4 | 14 29 | 14 24 | 14 39 | | n.a. |
| T 8 | 15 54 | 0 47 | 2 57 | 23 24 | 2 16 | 2 19 | 1 21 | 18 53 | 1 34 | 17 23 | 0 34 | 5 58 | 2 17 | 2 31 | 0 39 | 16 32 | 1 43 | 7 50 | 10 4 | 14 30 | 14 23 | 14 42 | | n.a. |
| F 9 | 16 13 | 4 s47 | 1 59 | 23 30 | 2 11 | 2 3 | 1 27 | 18 41 | 1 32 | 17 27 | 0 34 | 5 56 | 2 17 | 2 31 | 0 39 | 16 32 | 1 43 | 7 50 | 10 4 | 14 30 | 14 22 | 14 45 | | n.a. |
| S 10 | 16 31 | 10 10 | 0 56 | 23 35 | 2 6 | 1 47 | 1 33 | 18 28 | 1 30 | 17 31 | 0 34 | 5 54 | 2 17 | 2 30 | 0 39 | 16 31 | 1 43 | 7 49 | 10 4 | 14 30 | 14 21 | 14 48 | | n.a. |
| S 11 | 16 49 | 15 12 | 0 s 9 | 23 37 | 1 59 | 1 31 | 1 38 | 18 15 | 1 28 | 17 35 | 0 34 | 5 52 | 2 17 | 2 29 | 0 39 | 16 31 | 1 43 | 7 49 | 10 4 | 14 30 | 14 20 | 14 51 | | n.a. |
| M12 | 17 7 | 19 40 | 1 14 | 23 36 | 1 51 | 1 14 | 1 44 | 18 2 | 1 26 | 17 39 | 0 33 | 5 51 | 2 18 | 2 29 | 0 39 | 16 30 | 1 43 | 7 49 | 10 4 | 14 30 | 14 19 | 14 54 | | n.a. |
| T 13 | 17 24 | 23 23 | 2 16 | 23 33 | 1 42 | 0 57 | 1 49 | 17 48 | 1 25 | 17 42 | 0 33 | 5 49 | 2 18 | 2 28 | 0 39 | 16 30 | 1 43 | 7 49 | 10 4 | 14 30 | 14 17 | 14 56 | | n.a. |
| W14 | 17 41 | 26 8 | 3 13 | 23 28 | 1 31 | 0 39 | 1 54 | 17 35 | 1 23 | 17 46 | 0 33 | 5 47 | 2 18 | 2 27 | 0 39 | 16 29 | 1 43 | 7 48 | 10 4 | 14 29 | 14 16 | 14 59 | | n.a. |
| T 15 | 17 58 | 27 42 | 4 1 | 23 19 | 1 19 | 0 21 | 1 58 | 17 22 | 1 21 | 17 50 | 0 33 | 5 45 | 2 18 | 2 27 | 0 39 | 16 29 | 1 43 | 7 48 | 10 4 | 14 29 | 14 15 | 15 2 | | n.a. |
| F 16 | 18 15 | 27 57 | 4 39 | 23 8 | 1 6 | 0 2 | 2 3 | 17 8 | 1 19 | 17 53 | 0 33 | 5 44 | 2 18 | 2 26 | 0 39 | 16 29 | 1 43 | 7 48 | 10 4 | 14 28 | 14 14 | 15 5 | | n.a. |
| S 17 | 18 31 | 26 49 | 5 5 | 22 53 | 0 51 | 0 s17 | 2 7 | 16 54 | 1 18 | 17 57 | 0 33 | 5 42 | 2 19 | 2 25 | 0 39 | 16 28 | 1 43 | 7 47 | 10 4 | 14 27 | 14 13 | 15 8 | | n.a. |
| S 18 | 18 46 | 24 17 | 5 16 | 22 35 | 0 35 | 0 36 | 2 11 | 16 41 | 1 16 | 18 1 | 0 33 | 5 40 | 2 19 | 2 25 | 0 39 | 16 28 | 1 43 | 7 47 | 10 3 | 14 27 | 14 12 | 15 11 | | n.a. |
| M19 | 19 2 | 20 30 | 5 12 | 22 15 | 0 17 | 0 56 | 2 15 | 16 27 | 1 14 | 18 4 | 0 33 | 5 39 | 2 19 | 2 24 | 0 39 | 16 27 | 1 43 | 7 47 | 10 3 | 14 27 | 14 11 | 15 14 | | n.a. |
| T 20 | 19 17 | 15 35 | 4 51 | 21 51 | 0n 1 | 1 16 | 2 19 | 16 13 | 1 13 | 18 8 | 0 33 | 5 37 | 2 19 | 2 24 | 0 39 | 16 27 | 1 43 | 7 47 | 10 3 | 14 27 | 14 10 | 15 17 | | n.a. |
| W21 | 19 32 | 9 47 | 4 14 | 21 24 | 0 21 | 1 36 | 2 22 | 15 59 | 1 11 | 18 11 | 0 33 | 5 36 | 2 20 | 2 23 | 0 39 | 16 26 | 1 43 | 7 46 | 10 3 | 14 27 | 14 9 | 15 20 | | n.a. |
| T 22 | 19 46 | 3 19 | 3 20 | 20 55 | 0 41 | 1 57 | 2 25 | 15 44 | 1 9 | 18 15 | 0 33 | 5 34 | 2 20 | 2 23 | 0 39 | 16 26 | 1 43 | 7 46 | 10 3 | 14 27 | 14 8 | 15 23 | | n.a. |
| F 23 | 20 0 | 3n30 | 2 12 | 20 23 | 1 1 | 2 18 | 2 28 | 15 30 | 1 8 | 18 19 | 0 32 | 5 33 | 2 20 | 2 22 | 0 39 | 16 25 | 1 43 | 7 46 | 10 3 | 14 28 | 14 7 | 15 26 | | n.a. |
| S 24 | 20 13 | 10 18 | 0 53 | 19 50 | 1 21 | 2 39 | 2 31 | 15 16 | 1 6 | 18 22 | 0 32 | 5 31 | 2 20 | 2 22 | 0 39 | 16 25 | 1 43 | 7 46 | 10 3 | 14 28 | 14 6 | 15 29 | | n.a. |
| S 25 | 20 27 | 16 37 | 0n30 | 19 16 | 1 40 | 3 0 | 2 34 | 15 1 | 1 5 | 18 26 | 0 32 | 5 30 | 2 21 | 2 21 | 0 39 | 16 25 | 1 43 | 7 46 | 10 3 | 14 28 | 14 5 | 15 32 | | n.a. |
| M26 | 20 39 | 21 57 | 1 51 | 18 42 | 1 58 | 3 22 | 2 36 | 14 47 | 1 3 | 18 29 | 0 32 | 5 28 | 2 21 | 2 21 | 0 39 | 16 24 | 1 43 | 7 45 | 10 3 | 14 28 | 14 4 | 15 35 | | n.a. |
| T 27 | 20 52 | 25 47 | 3 4 | 18 8 | 2 15 | 3 44 | 2 39 | 14 32 | 1 1 | 18 32 | 0 32 | 5 27 | 2 21 | 2 20 | 0 39 | 16 24 | 1 43 | 7 45 | 10 3 | 14 27 | 14 3 | 15 38 | | n.a. |
| W28 | 21 4 | 27 46 | 4 3 | 17 37 | 2 29 | 4 6 | 2 41 | 14 17 | 1 0 | 18 36 | 0 32 | 5 26 | 2 21 | 2 20 | 0 39 | 16 23 | 1 43 | 7 45 | 10 3 | 14 26 | 14 2 | 15 41 | | n.a. |
| T 29 | 21 15 | 27 45 | 4 46 | 17 9 | 2 41 | 4 28 | 2 43 | 14 2 | 0 58 | 18 39 | 0 32 | 5 24 | 2 22 | 2 20 | 0 39 | 16 23 | 1 43 | 7 45 | 10 3 | 14 25 | 14 1 | 15 44 | | n.a. |
| F 30 | 21 s27 | 25n55 | 5n 9 | 16 s44 | 2n51 | 4 s51 | 2n44 | 13 s47 | 0 s57 | 18 s43 | 0n32 | 5n23 | 2n22 | 2n19 | 0 s38 | 16n22 | 1 s43 | 7n45 | 10 s 2 | 14n23 | 14n 0 | 15 s47 | | n.a. |

Julian Day Number = 1691776.5, Delta T = 03h10m06s
Ecliptic obliquity = 23°42'25, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°11'07, Lahiri = - 5°04'06 Julian Calendar 1 Nov. 82 BCE == Greg. Calendar 30 Oct. 082 BCE

The year -81 astronomical counting style corresponds to year 082 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 82 BCE
# geocentric

## DECEMBER 82 BCE (-81) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 4 25 53 | 6♐26'17 | 11♌14 | 25°R 8 | 19♎41 | 26♒56 | 25♏13 | 22♍ 2 | 7°R14 | 20°R19 | 18°R 1 | 8°R 8 | 6♉55 | 11♏28 | n.a. | S 1 |
| S 2 | 4 29 50 | 7°27'33 | 24°23 | 24♏19 | 20°45 | 27°36 | 25°27 | 22° 5 | 7♈13 | 20♉17 | 18♉ 0 | 8♉ 6 | 6°52 | 11°34 | n.a. | S 2 |
| M 3 | 4 33 46 | 8°28'48 | 7♍ 7 | 23°40 | 21°49 | 28°15 | 25°40 | 22° 8 | 7°12 | 20°16 | 17°59 | 8°D 5 | 6°49 | 11°41 | n.a. | M 3 |
| T 4 | 4 37 43 | 9°30'04 | 19°30 | 23°12 | 22°53 | 28°55 | 25°54 | 22°12 | 7°11 | 20°14 | 17°58 | 8° 5 | 6°46 | 11°47 | n.a. | T 4 |
| W 5 | 4 41 39 | 10°31'20 | 1♎36 | 22°54 | 23°58 | 29°34 | 26° 7 | 22°15 | 7°11 | 20°13 | 17°57 | 8° 7 | 6°43 | 11°54 | n.a. | W 5 |
| T 6 | 4 45 36 | 11°32'36 | 13°31 | 22°D45 | 25° 2 | 0♓14 | 26°21 | 22°18 | 7°10 | 20°11 | 17°55 | 8° 9 | 6°40 | 12° 1 | n.a. | T 6 |
| F 7 | 4 49 33 | 12°33'52 | 25°19 | 22°46 | 26° 8 | 0°54 | 26°34 | 22°21 | 7° 9 | 20° 9 | 17°54 | 8°10 | 6°36 | 12° 7 | n.a. | F 7 |
| S 8 | 4 53 29 | 13°35'08 | 7♏ 5 | 22°56 | 27°13 | 1°33 | 26°48 | 22°24 | 7° 9 | 20° 8 | 17°53 | 8°R11 | 6°33 | 12°14 | n.a. | S 8 |
| S 9 | 4 57 26 | 14°36'24 | 18°52 | 23°13 | 28°19 | 2°13 | 27° 1 | 22°27 | 7° 8 | 20° 6 | 17°52 | 8°10 | 6°30 | 12°21 | n.a. | S 9 |
| M10 | 5 1 22 | 15°37'40 | 0♐44 | 23°38 | 29°25 | 2°53 | 27°15 | 22°29 | 7° 8 | 20° 5 | 17°51 | 8° 8 | 6°27 | 12°27 | n.a. | M10 |
| T 11 | 5 5 19 | 16°38'56 | 12°42 | 24° 9 | 0♏31 | 3°33 | 27°28 | 22°32 | 7° 7 | 20° 3 | 17°50 | 8° 3 | 6°24 | 12°34 | n.a. | T 11 |
| W12 | 5 9 15 | 17°40'11 | 24°49 | 24°47 | 1°37 | 4°12 | 27°41 | 22°35 | 7° 7 | 20° 2 | 17°49 | 7°57 | 6°20 | 12°41 | n.a. | W12 |
| T 13 | 5 13 12 | 18°41'26 | 7♑ 6 | 25°29 | 2°44 | 4°52 | 27°55 | 22°37 | 7° 6 | 20° 0 | 17°48 | 7°49 | 6°17 | 12°47 | n.a. | T 13 |
| F 14 | 5 17 8 | 19°42'40 | 19°34 | 26°16 | 3°51 | 5°32 | 28° 8 | 22°39 | 7° 6 | 19°59 | 17°47 | 7°41 | 6°14 | 12°54 | n.a. | F 14 |
| S 15 | 5 21 5 | 20°43'54 | 2♒13 | 27° 8 | 4°58 | 6°12 | 28°21 | 22°41 | 7° 6 | 19°58 | 17°46 | 7°33 | 6°11 | 13° 1 | n.a. | S 15 |
| S 16 | 5 25 2 | 21°45'07 | 15° 5 | 28° 3 | 6° 5 | 6°52 | 28°34 | 22°44 | 7° 6 | 19°56 | 17°45 | 7°27 | 6° 8 | 13° 7 | n.a. | S 16 |
| M17 | 5 28 58 | 22°46'20 | 28°10 | 29° 1 | 7°12 | 7°32 | 28°48 | 22°46 | 7° 6 | 19°55 | 17°45 | 7°22 | 6° 5 | 13°14 | n.a. | M17 |
| T 18 | 5 32 55 | 23°47'31 | 11♓30 | 0♐ 3 | 8°20 | 8°12 | 29° 1 | 22°47 | 7° 5 | 19°53 | 17°44 | 7°19 | 6° 1 | 13°21 | n.a. | T 18 |
| W19 | 5 36 51 | 24°48'41 | 25° 6 | 1° 8 | 9°28 | 8°52 | 29°14 | 22°49 | 7°D 5 | 19°52 | 17°43 | 7°D18 | 5°58 | 13°27 | n.a. | W19 |
| T 20 | 5 40 48 | 25°49'50 | 8♈59 | 2°15 | 10°36 | 9°32 | 29°27 | 22°51 | 7° 5 | 19°51 | 17°42 | 7°19 | 5°55 | 13°34 | n.a. | T 20 |
| F 21 | 5 44 44 | 26°50'59 | 23°11 | 3°24 | 11°44 | 10°12 | 29°40 | 22°53 | 7° 6 | 19°49 | 17°41 | 7°20 | 5°52 | 13°40 | n.a. | F 21 |
| S 22 | 5 48 41 | 27°52'06 | 7♉39 | 4°35 | 12°52 | 10°52 | 29°53 | 22°54 | 7° 6 | 19°48 | 17°40 | 7°R21 | 5°49 | 13°47 | n.a. | S 22 |
| S 23 | 5 52 37 | 28°53'12 | 22°21 | 5°48 | 14° 1 | 11°32 | 0♐ 6 | 22°55 | 7° 6 | 19°47 | 17°39 | 7°20 | 5°46 | 13°54 | n.a. | S 23 |
| M24 | 5 56 34 | 29°54'18 | 7♊11 | 7° 3 | 15° 9 | 12°12 | 0°18 | 22°57 | 7° 6 | 19°46 | 17°38 | 7°16 | 5°42 | 14° 0 | n.a. | M24 |
| T 25 | 6 0 31 | 0♑55'22 | 22° 4 | 8°19 | 16°18 | 12°52 | 0°31 | 22°58 | 7° 6 | 19°45 | 17°38 | 7°11 | 5°39 | 14° 7 | n.a. | T 25 |
| W26 | 6 4 27 | 1°56'26 | 6♋49 | 9°37 | 17°27 | 13°32 | 0°44 | 22°59 | 7° 7 | 19°43 | 17°37 | 7° 3 | 5°36 | 14°14 | n.a. | W26 |
| T 27 | 6 8 24 | 2°57'28 | 21°19 | 10°56 | 18°36 | 14°12 | 0°57 | 23° 0 | 7° 7 | 19°42 | 17°36 | 6°54 | 5°33 | 14°20 | n.a. | T 27 |
| F 28 | 6 12 20 | 3°58'30 | 5♌28 | 12°16 | 19°45 | 14°52 | 1° 9 | 23° 1 | 7° 8 | 19°41 | 17°35 | 6°44 | 5°30 | 14°27 | n.a. | F 28 |
| S 29 | 6 16 17 | 4°59'31 | 19°11 | 13°37 | 20°55 | 15°32 | 1°22 | 23° 1 | 7° 8 | 19°40 | 17°35 | 6°35 | 5°26 | 14°34 | n.a. | S 29 |
| S 30 | 6 20 13 | 6° 0'31 | 2♍27 | 15° 0 | 22° 4 | 16°12 | 1°34 | 23° 2 | 7° 9 | 19°39 | 17°34 | 6°28 | 5°23 | 14°40 | n.a. | S 30 |
| M31 | 6 24 10 | 7♑ 1'30 | 15♍16 | 16♐23 | 23♏14 | 16♓52 | 1♐47 | 23♍ 3 | 7♈ 9 | 19♉38 | 17♉33 | 6♉23 | 5♉20 | 14♏47 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21s38 | 22n37 | 5n14 | 16s23 | 2n58 | 5s13 | 2n46 | 13s32 | 0s55 | 18s46 | 0n32 | 5n22 | 2n22 | 2n19 | 0s38 | 16n22 | 1s43 | 7n44 | 10s 2 | 14n22 | 13n59 | 15s50 | | n.a. |
| S 2 | 21 48 | 18 16 | 5 2 | 16 6 | 3 3 | 5 36 | 2 48 | 13 17 | 0 54 | 18 49 | 0 32 | 5 21 | 2 22 | 2 18 | 0 38 | 16 22 | 1 43 | 7 44 | 10 2 | 14 22 | 13 58 | 15 52 | | n.a. |
| M 3 | 21 58 | 13 14 | 4 35 | 15 53 | 3 6 | 5 59 | 2 49 | 13 2 | 0 52 | 18 53 | 0 32 | 5 20 | 2 23 | 2 18 | 0 38 | 16 21 | 1 43 | 7 44 | 10 2 | 14 21 | 13 57 | 15 55 | | n.a. |
| T 4 | 22 7 | 7 49 | 3 56 | 15 45 | 3 7 | 6 22 | 2 50 | 12 47 | 0 51 | 18 56 | 0 32 | 5 19 | 2 23 | 2 18 | 0 38 | 16 21 | 1 43 | 7 44 | 10 2 | 14 22 | 13 55 | 15 58 | | n.a. |
| W 5 | 22 16 | 2 13 | 3 7 | 15 42 | 3 7 | 6 45 | 2 51 | 12 31 | 0 50 | 18 59 | 0 32 | 5 18 | 2 23 | 2 18 | 0 38 | 16 20 | 1 43 | 7 44 | 10 2 | 14 22 | 13 54 | 16 1 | | n.a. |
| T 6 | 22 25 | 3s23 | 2 11 | 15 42 | 3 5 | 7 8 | 2 52 | 12 16 | 0 48 | 19 3 | 0 31 | 5 17 | 2 23 | 2 17 | 0 38 | 16 20 | 1 43 | 7 44 | 10 2 | 14 23 | 13 53 | 16 4 | | n.a. |
| F 7 | 22 33 | 8 49 | 1 10 | 15 45 | 3 1 | 7 31 | 2 52 | 12 0 | 0 47 | 19 6 | 0 31 | 5 16 | 2 24 | 2 17 | 0 38 | 16 20 | 1 43 | 7 43 | 10 2 | 14 23 | 13 52 | 16 7 | | n.a. |
| S 8 | 22 41 | 13 56 | 0 6 | 15 52 | 2 56 | 7 55 | 2 53 | 11 45 | 0 45 | 19 9 | 0 31 | 5 15 | 2 24 | 2 17 | 0 38 | 16 19 | 1 43 | 7 43 | 10 1 | 14 23 | 13 51 | 16 10 | | n.a. |
| S 9 | 22 48 | 18 33 | 0s58 | 16 2 | 2 51 | 8 18 | 2 53 | 11 29 | 0 44 | 19 12 | 0 31 | 5 14 | 2 24 | 2 17 | 0 38 | 16 19 | 1 43 | 7 43 | 10 1 | 14 23 | 13 50 | 16 13 | | n.a. |
| M10 | 22 55 | 22 29 | 2 0 | 16 14 | 2 45 | 8 41 | 2 54 | 11 13 | 0 43 | 19 15 | 0 31 | 5 13 | 2 25 | 2 17 | 0 38 | 16 19 | 1 43 | 7 43 | 10 1 | 14 22 | 13 49 | 16 16 | | n.a. |
| T 11 | 23 2 | 25 30 | 2 57 | 16 28 | 2 38 | 9 4 | 2 54 | 10 57 | 0 41 | 19 19 | 0 31 | 5 12 | 2 25 | 2 16 | 0 38 | 16 18 | 1 43 | 7 43 | 10 1 | 14 21 | 13 48 | 16 19 | | n.a. |
| W12 | 23 8 | 27 22 | 3 46 | 16 45 | 2 30 | 9 27 | 2 54 | 10 42 | 0 40 | 19 22 | 0 31 | 5 12 | 2 25 | 2 16 | 0 38 | 16 18 | 1 43 | 7 43 | 10 1 | 14 19 | 13 47 | 16 21 | | n.a. |
| T 13 | 23 13 | 27 56 | 4 26 | 17 3 | 2 22 | 9 51 | 2 53 | 10 26 | 0 38 | 19 25 | 0 31 | 5 11 | 2 25 | 2 16 | 0 38 | 16 17 | 1 43 | 7 43 | 10 1 | 14 16 | 13 46 | 16 24 | | n.a. |
| F 14 | 23 18 | 27 6 | 4 54 | 17 22 | 2 14 | 10 14 | 2 53 | 10 10 | 0 37 | 19 28 | 0 31 | 5 10 | 2 26 | 2 16 | 0 38 | 16 17 | 1 43 | 7 42 | 10 1 | 14 14 | 13 45 | 16 27 | | n.a. |
| S 15 | 23 23 | 24 52 | 5 7 | 17 42 | 2 6 | 10 37 | 2 53 | 9 54 | 0 36 | 19 31 | 0 31 | 5 10 | 2 26 | 2 16 | 0 38 | 16 17 | 1 43 | 7 42 | 10 0 | 14 11 | 13 44 | 16 30 | | n.a. |
| S 16 | 23 27 | 21 22 | 5 6 | 18 3 | 1 57 | 11 0 | 2 52 | 9 37 | 0 35 | 19 34 | 0 31 | 5 9 | 2 26 | 2 16 | 0 38 | 16 16 | 1 43 | 7 42 | 10 0 | 14 9 | 13 43 | 16 33 | | n.a. |
| M17 | 23 30 | 16 45 | 4 49 | 18 24 | 1 49 | 11 22 | 2 51 | 9 21 | 0 33 | 19 37 | 0 31 | 5 9 | 2 26 | 2 16 | 0 38 | 16 16 | 1 43 | 7 42 | 10 0 | 14 7 | 13 42 | 16 36 | | n.a. |
| T 18 | 23 34 | 11 16 | 4 16 | 18 46 | 1 40 | 11 45 | 2 51 | 9 5 | 0 32 | 19 40 | 0 31 | 5 8 | 2 27 | 2 16 | 0 38 | 16 16 | 1 43 | 7 42 | 10 0 | 14 6 | 13 41 | 16 39 | | n.a. |
| W19 | 23 36 | 5 9 | 3 28 | 19 8 | 1 31 | 12 8 | 2 50 | 8 49 | 0 31 | 19 43 | 0 31 | 5 8 | 2 27 | 2 16 | 0 38 | 16 15 | 1 43 | 7 42 | 10 0 | 14 6 | 13 40 | 16 42 | | n.a. |
| T 20 | 23 38 | 1n21 | 2 27 | 19 30 | 1 22 | 12 30 | 2 49 | 8 32 | 0 30 | 19 46 | 0 31 | 5 7 | 2 27 | 2 16 | 0 38 | 16 15 | 1 43 | 7 42 | 10 0 | 14 6 | 13 39 | 16 44 | | n.a. |
| F 21 | 23 40 | 7 56 | 1 16 | 19 52 | 1 13 | 12 52 | 2 48 | 8 16 | 0 28 | 19 48 | 0 30 | 5 7 | 2 28 | 2 16 | 0 38 | 16 15 | 1 42 | 7 42 | 9 59 | 14 7 | 13 37 | 16 47 | | n.a. |
| S 22 | 23 41 | 14 15 | 0n 2 | 20 14 | 1 4 | 13 14 | 2 46 | 8 0 | 0 27 | 19 51 | 0 30 | 5 6 | 2 28 | 2 16 | 0 38 | 16 14 | 1 42 | 7 42 | 9 59 | 14 7 | 13 36 | 16 50 | | n.a. |
| S 23 | 23 42 | 19 51 | 1 20 | 20 36 | 0 56 | 13 36 | 2 45 | 7 43 | 0 26 | 19 54 | 0 30 | 5 6 | 2 28 | 2 16 | 0 38 | 16 14 | 1 42 | 7 42 | 9 59 | 14 7 | 13 35 | 16 53 | | n.a. |
| M24 | 23 42 | 24 16 | 2 33 | 20 58 | 0 47 | 13 58 | 2 43 | 7 27 | 0 25 | 19 57 | 0 30 | 5 6 | 2 29 | 2 16 | 0 38 | 16 14 | 1 42 | 7 42 | 9 59 | 14 6 | 13 34 | 16 56 | | n.a. |
| T 25 | 23 42 | 27 4 | 3 36 | 21 19 | 0 38 | 14 19 | 2 42 | 7 10 | 0 24 | 20 0 | 0 30 | 5 6 | 2 29 | 2 17 | 0 38 | 16 14 | 1 42 | 7 42 | 9 59 | 14 4 | 13 33 | 16 59 | | n.a. |
| W26 | 23 42 | 27 56 | 4 24 | 21 39 | 0 30 | 14 40 | 2 40 | 6 53 | 0 22 | 20 2 | 0 30 | 5 6 | 2 29 | 2 17 | 0 38 | 16 13 | 1 42 | 7 42 | 9 58 | 14 1 | 13 32 | 17 1 | | n.a. |
| T 27 | 23 40 | 26 50 | 4 54 | 21 59 | 0 21 | 15 1 | 2 38 | 6 37 | 0 21 | 20 5 | 0 30 | 5 5 | 2 29 | 2 17 | 0 37 | 16 13 | 1 42 | 7 42 | 9 58 | 13 58 | 13 31 | 17 4 | | n.a. |
| F 28 | 23 39 | 24 2 | 5 5 | 22 18 | 0 13 | 15 22 | 2 37 | 6 20 | 0 20 | 20 8 | 0 30 | 5 5 | 2 30 | 2 17 | 0 37 | 16 13 | 1 42 | 7 42 | 9 58 | 13 55 | 13 30 | 17 7 | | n.a. |
| S 29 | 23 37 | 19 57 | 4 58 | 22 36 | 0 5 | 15 42 | 2 35 | 6 3 | 0 19 | 20 10 | 0 30 | 5 5 | 2 30 | 2 17 | 0 37 | 16 13 | 1 42 | 7 42 | 9 58 | 13 52 | 13 29 | 17 10 | | n.a. |
| S 30 | 23 34 | 14 59 | 4 35 | 22 54 | 0s 3 | 16 2 | 2 32 | 5 47 | 0 18 | 20 13 | 0 30 | 5 5 | 2 30 | 2 18 | 0 37 | 16 12 | 1 42 | 7 42 | 9 58 | 13 50 | 13 28 | 17 13 | | n.a. |
| M31 | 23s31 | 9n31 | 3n58 | 23s11 | 0s10 | 16s22 | 2n30 | 5s30 | 0s17 | 20s16 | 0n30 | 5n 5 | 2n31 | 2n18 | 0s37 | 16n12 | 1s42 | 7n42 | 9s57 | 13n48 | 13n27 | 17s16 | | n.a. |

Julian Day Number = 1691806.5, Delta T = 03h10m05s
Ecliptic obliquity = 23°42'24, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°11'03, Lahiri = - 5°04'02 Julian Calendar 1 Dec. 82 BCE == Greg. Calendar 29 Nov. 082 BCE

The year -81 astronomical counting style corresponds to year 082 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 81 BCE
# geocentric

## JANUARY 81 BCE (-80) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 28 7 | 8♉ 2'28 | 27♍43 | 17♐48 | 24♏24 | 17♓31 | 1♐59 | 23♍ 3 | 7♈10 | 19°R37 | 17°R32 | 6°R21 | 5♉17 | 14♏54 | n.a. | T 1 |
| W 2 | 6 32 3 | 9° 3'25 | 9♎52 | 19°13 | 25°33 | 18°11 | 2°11 | 23° 3 | 7°11 | 19♉36 | 17♉32 | 6°D20 | 5°14 | 15° 0 | n.a. | W 2 |
| T 3 | 6 36 0 | 10° 4'21 | 21°47 | 20°40 | 26°43 | 18°51 | 2°24 | 23° 4 | 7°11 | 19°35 | 17°31 | 6♉20 | 5°11 | 15° 7 | n.a. | T 3 |
| F 4 | 6 39 56 | 11° 5'17 | 3♏36 | 22° 7 | 27°53 | 19°32 | 2°36 | 23° 4 | 7°12 | 19°34 | 17°30 | 6°R21 | 5° 7 | 15°14 | n.a. | F 4 |
| S 5 | 6 43 53 | 12° 6'11 | 15°22 | 23°35 | 29° 4 | 20°12 | 2°48 | 23°R 4 | 7°13 | 19°33 | 17°30 | 6°21 | 5° 4 | 15°20 | n.a. | S 5 |
| S 6 | 6 47 49 | 13° 7'04 | 27°11 | 25° 4 | 0♐14 | 20°52 | 3° 0 | 23° 4 | 7°14 | 19°32 | 17°29 | 6°18 | 5° 1 | 15°27 | n.a. | S 6 |
| M 7 | 6 51 46 | 14° 7'57 | 9♐ 7 | 26°34 | 1°24 | 21°32 | 3°12 | 23° 4 | 7°15 | 19°31 | 17°29 | 6°13 | 4°58 | 15°33 | n.a. | M 7 |
| T 8 | 6 55 42 | 15° 8'48 | 21°14 | 28° 4 | 2°35 | 22°12 | 3°24 | 23° 3 | 7°16 | 19°30 | 17°28 | 6° 6 | 4°55 | 15°40 | n.a. | T 8 |
| W 9 | 6 59 39 | 16° 9'38 | 3♑33 | 29°36 | 3°45 | 22°52 | 3°36 | 23° 3 | 7°17 | 19°30 | 17°27 | 5°55 | 4°52 | 15°47 | n.a. | W 9 |
| T 10 | 7 3 36 | 17°10'27 | 16° 6 | 1♑ 8 | 4°56 | 23°32 | 3°48 | 23° 2 | 7°18 | 19°29 | 17°27 | 5°43 | 4°48 | 15°53 | n.a. | T 10 |
| F 11 | 7 7 32 | 18°11'14 | 28°53 | 2°41 | 6° 6 | 24°12 | 3°59 | 23° 2 | 7°19 | 19°28 | 17°26 | 5°30 | 4°45 | 16° 0 | n.a. | F 11 |
| S 12 | 7 11 29 | 19°11'59 | 11♒53 | 4°15 | 7°17 | 24°52 | 4°11 | 23° 1 | 7°20 | 19°27 | 17°26 | 5°17 | 4°42 | 16° 7 | n.a. | S 12 |
| S 13 | 7 15 25 | 20°12'43 | 25° 5 | 5°49 | 8°28 | 25°32 | 4°23 | 23° 0 | 7°22 | 19°27 | 17°25 | 5° 6 | 4°39 | 16°13 | n.a. | S 13 |
| M14 | 7 19 22 | 21°13'26 | 8♓28 | 7°25 | 9°39 | 26°12 | 4°34 | 22°59 | 7°23 | 19°26 | 17°25 | 4°57 | 4°36 | 16°20 | n.a. | M14 |
| T 15 | 7 23 18 | 22°14'06 | 22° 1 | 9° 1 | 10°50 | 26°52 | 4°45 | 22°58 | 7°24 | 19°26 | 17°25 | 4°51 | 4°32 | 16°27 | n.a. | T 15 |
| W16 | 7 27 15 | 23°14'45 | 5♈44 | 10°38 | 12° 1 | 27°31 | 4°57 | 22°57 | 7°26 | 19°25 | 17°24 | 4°48 | 4°29 | 16°33 | n.a. | W16 |
| T 17 | 7 31 11 | 24°15'21 | 19°36 | 12°16 | 13°12 | 28°11 | 5° 8 | 22°56 | 7°27 | 19°24 | 17°24 | 4°D47 | 4°26 | 16°40 | n.a. | T 17 |
| F 18 | 7 35 8 | 25°15'56 | 3♉37 | 13°55 | 14°23 | 28°51 | 5°19 | 22°54 | 7°29 | 19°24 | 17°23 | 4°R47 | 4°23 | 16°47 | n.a. | F 18 |
| S 19 | 7 39 5 | 26°16'29 | 17°48 | 15°35 | 15°35 | 29°31 | 5°30 | 22°53 | 7°30 | 19°23 | 17°23 | 4°47 | 4°20 | 16°53 | n.a. | S 19 |
| S 20 | 7 43 1 | 27°17'00 | 2♊ 6 | 17°15 | 16°46 | 0♈11 | 5°41 | 22°51 | 7°32 | 19°23 | 17°23 | 4°44 | 4°17 | 17° 0 | n.a. | S 20 |
| M21 | 7 46 58 | 28°17'29 | 16°30 | 18°57 | 17°57 | 0°51 | 5°52 | 22°50 | 7°33 | 19°23 | 17°23 | 4°40 | 4°13 | 17° 7 | n.a. | M21 |
| T 22 | 7 50 54 | 29°17'56 | 0♋56 | 20°39 | 19° 9 | 1°31 | 6° 3 | 22°48 | 7°35 | 19°22 | 17°22 | 4°32 | 4°10 | 17°13 | n.a. | T 22 |
| W23 | 7 54 51 | 0♒18'21 | 15°18 | 22°22 | 20°20 | 2°11 | 6°13 | 22°46 | 7°37 | 19°22 | 17°22 | 4°22 | 4° 7 | 17°20 | n.a. | W23 |
| T 24 | 7 58 47 | 1°18'45 | 29°29 | 24° 7 | 21°32 | 2°51 | 6°24 | 22°44 | 7°39 | 19°22 | 17°22 | 4°10 | 4° 4 | 17°27 | n.a. | T 24 |
| F 25 | 8 2 44 | 2°19'06 | 13♌25 | 25°52 | 22°43 | 3°31 | 6°34 | 22°42 | 7°40 | 19°21 | 17°22 | 3°57 | 4° 1 | 17°33 | n.a. | F 25 |
| S 26 | 8 6 41 | 3°19'26 | 27° 0 | 27°38 | 23°55 | 4°11 | 6°45 | 22°40 | 7°42 | 19°21 | 17°21 | 3°45 | 3°58 | 17°40 | n.a. | S 26 |
| S 27 | 8 10 37 | 4°19'44 | 10♍13 | 29°25 | 25° 6 | 4°50 | 6°55 | 22°38 | 7°44 | 19°21 | 17°21 | 3°35 | 3°54 | 17°46 | n.a. | S 27 |
| M28 | 8 14 34 | 5°20'00 | 23° 3 | 1♒14 | 26°18 | 5°30 | 7° 5 | 22°36 | 7°46 | 19°21 | 17°21 | 3°27 | 3°51 | 17°53 | n.a. | M28 |
| T 29 | 8 18 30 | 6°20'15 | 5♎31 | 3° 3 | 27°30 | 6°10 | 7°15 | 22°33 | 7°48 | 19°21 | 17°21 | 3°22 | 3°48 | 18° 0 | n.a. | T 29 |
| W30 | 8 22 27 | 7°20'27 | 17°42 | 4°53 | 28°42 | 6°50 | 7°25 | 22°31 | 7°50 | 19°20 | 17°21 | 3°20 | 3°45 | 18° 6 | n.a. | W30 |
| T 31 | 8 26 23 | 8♒20'39 | 29♎40 | 6♒44 | 29♐54 | 7♈30 | 7♐35 | 22♍28 | 7♈52 | 19♉20 | 17♉21 | 3♉19 | 3♉42 | 18♏13 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| T 1 | 23 s28 | 3n50 | 3n11 | 23 s26 | 0 s18 | 16 s41 | 2n28 | 5 s13 | 0 s16 | 20 s18 | 0n30 | 5n 5 | 2n31 | 2n18 | 0 s37 | 16n12 | 1 s42 | 7n42 | 9 s57 | 13n47 | 13n26 | 17 s18 | | n.a. | T 1 |
| W 2 | 23 24 | 1 s51 | 2 17 | 23 41 | 0 25 | 17 0 | 2 26 | 4 56 | 0 15 | 20 21 | 0 30 | 5 6 | 2 31 | 2 19 | 0 37 | 16 12 | 1 42 | 7 42 | 9 57 | 13 47 | 13 25 | 17 21 | | n.a. | W 2 |
| T 3 | 23 19 | 7 24 | 1 17 | 23 55 | 0 33 | 17 19 | 2 23 | 4 40 | 0 13 | 20 23 | 0 30 | 5 6 | 2 31 | 2 19 | 0 37 | 16 11 | 1 42 | 7 42 | 9 57 | 13 47 | 13 24 | 17 24 | | n.a. | T 3 |
| F 4 | 23 14 | 12 37 | 0 15 | 24 8 | 0 40 | 17 37 | 2 21 | 4 23 | 0 12 | 20 26 | 0 30 | 5 6 | 2 32 | 2 19 | 0 37 | 16 11 | 1 42 | 7 42 | 9 57 | 13 47 | 13 22 | 17 27 | | n.a. | F 4 |
| S 5 | 23 9 | 17 23 | 0 s48 | 24 19 | 0 46 | 17 55 | 2 19 | 4 6 | 0 11 | 20 28 | 0 30 | 5 6 | 2 32 | 2 20 | 0 37 | 16 11 | 1 42 | 7 42 | 9 56 | 13 47 | 13 21 | 17 30 | | n.a. | S 5 |
| S 6 | 23 3 | 21 31 | 1 49 | 24 30 | 0 53 | 18 13 | 2 16 | 3 49 | 0 10 | 20 30 | 0 30 | 5 7 | 2 32 | 2 20 | 0 37 | 16 11 | 1 42 | 7 42 | 9 56 | 13 46 | 13 20 | 17 32 | | n.a. | S 6 |
| M 7 | 22 57 | 24 47 | 2 45 | 24 39 | 0 59 | 18 30 | 2 13 | 3 32 | 0 9 | 20 33 | 0 30 | 5 7 | 2 33 | 2 20 | 0 37 | 16 11 | 1 42 | 7 42 | 9 56 | 13 45 | 13 19 | 17 35 | | n.a. | M 7 |
| T 8 | 22 50 | 26 59 | 3 35 | 24 47 | 1 5 | 18 47 | 2 11 | 3 15 | 0 8 | 20 35 | 0 30 | 5 7 | 2 33 | 2 21 | 0 37 | 16 11 | 1 42 | 7 42 | 9 56 | 13 42 | 13 18 | 17 38 | | n.a. | T 8 |
| W 9 | 22 43 | 27 55 | 4 15 | 24 53 | 1 11 | 19 3 | 2 8 | 2 59 | 0 7 | 20 38 | 0 29 | 5 8 | 2 33 | 2 21 | 0 37 | 16 10 | 1 42 | 7 42 | 9 55 | 13 39 | 13 17 | 17 41 | | n.a. | W 9 |
| T 10 | 22 35 | 27 25 | 4 44 | 24 59 | 1 17 | 19 19 | 2 5 | 2 42 | 0 6 | 20 40 | 0 29 | 5 8 | 2 33 | 2 22 | 0 37 | 16 10 | 1 41 | 7 42 | 9 55 | 13 35 | 13 16 | 17 44 | | n.a. | T 10 |
| F 11 | 22 27 | 25 29 | 4 59 | 25 3 | 1 22 | 19 34 | 2 2 | 2 25 | 0 5 | 20 42 | 0 29 | 5 9 | 2 34 | 2 22 | 0 37 | 16 10 | 1 41 | 7 42 | 9 55 | 13 30 | 13 15 | 17 46 | | n.a. | F 11 |
| S 12 | 22 19 | 22 12 | 4 59 | 25 5 | 1 27 | 19 49 | 1 59 | 2 8 | 0 4 | 20 44 | 0 29 | 5 9 | 2 34 | 2 23 | 0 37 | 16 10 | 1 41 | 7 42 | 9 55 | 13 26 | 13 14 | 17 49 | | n.a. | S 12 |
| S 13 | 22 10 | 17 44 | 4 43 | 25 6 | 1 32 | 20 3 | 1 56 | 1 51 | 0 3 | 20 46 | 0 29 | 5 10 | 2 34 | 2 23 | 0 37 | 16 10 | 1 41 | 7 42 | 9 55 | 13 22 | 13 13 | 17 52 | | n.a. | S 13 |
| M14 | 22 1 | 12 22 | 4 12 | 25 6 | 1 36 | 20 17 | 1 53 | 1 34 | 0 2 | 20 49 | 0 29 | 5 10 | 2 35 | 2 24 | 0 37 | 16 10 | 1 41 | 7 42 | 9 54 | 13 19 | 13 12 | 17 55 | | n.a. | M14 |
| T 15 | 21 51 | 6 20 | 3 26 | 25 4 | 1 40 | 20 30 | 1 50 | 1 17 | 0 1 | 20 51 | 0 29 | 5 11 | 2 35 | 2 24 | 0 37 | 16 10 | 1 41 | 7 43 | 9 54 | 13 17 | 13 11 | 17 58 | | n.a. | T 15 |
| W16 | 21 41 | 0n 3 | 2 27 | 25 0 | 1 44 | 20 43 | 1 47 | 1 0 | 0 0 | 20 53 | 0 29 | 5 12 | 2 35 | 2 25 | 0 37 | 16 9 | 1 41 | 7 43 | 9 54 | 13 16 | 13 10 | 18 0 | | n.a. | W16 |
| T 17 | 21 30 | 6 31 | 1 20 | 24 55 | 1 48 | 20 55 | 1 44 | 0 43 | 0n 1 | 20 55 | 0 29 | 5 13 | 2 35 | 2 26 | 0 37 | 16 9 | 1 41 | 7 43 | 9 54 | 13 16 | 13 8 | 18 3 | | n.a. | T 17 |
| F 18 | 21 19 | 12 46 | 0 6 | 24 48 | 1 51 | 21 7 | 1 40 | 0 26 | 0 1 | 20 57 | 0 29 | 5 13 | 2 36 | 2 26 | 0 37 | 16 9 | 1 41 | 7 43 | 9 53 | 13 16 | 13 7 | 18 6 | | n.a. | F 18 |
| S 19 | 21 8 | 18 25 | 1n 8 | 24 40 | 1 54 | 21 18 | 1 37 | 0 9 | 0 2 | 20 59 | 0 29 | 5 14 | 2 36 | 2 27 | 0 37 | 16 9 | 1 41 | 7 43 | 9 53 | 13 15 | 13 6 | 18 9 | | n.a. | S 19 |
| S 20 | 20 56 | 23 5 | 2 19 | 24 30 | 1 56 | 21 29 | 1 34 | 0n 8 | 0 3 | 21 1 | 0 29 | 5 15 | 2 36 | 2 28 | 0 37 | 16 9 | 1 41 | 7 43 | 9 53 | 13 15 | 13 5 | 18 11 | | n.a. | S 20 |
| M21 | 20 44 | 26 21 | 3 21 | 24 18 | 1 58 | 21 39 | 1 31 | 0 24 | 0 4 | 21 3 | 0 29 | 5 16 | 2 36 | 2 28 | 0 37 | 16 9 | 1 41 | 7 43 | 9 53 | 13 13 | 13 4 | 18 14 | | n.a. | M21 |
| T 22 | 20 32 | 27 53 | 4 11 | 24 5 | 2 0 | 21 48 | 1 27 | 0 41 | 0 5 | 21 5 | 0 29 | 5 17 | 2 37 | 2 29 | 0 37 | 16 9 | 1 41 | 7 44 | 9 52 | 13 11 | 13 3 | 18 17 | | n.a. | T 22 |
| W23 | 20 19 | 27 31 | 4 44 | 23 49 | 2 1 | 21 57 | 1 24 | 0 58 | 0 6 | 21 7 | 0 29 | 5 18 | 2 37 | 2 30 | 0 37 | 16 9 | 1 41 | 7 44 | 9 52 | 13 7 | 13 2 | 18 19 | | n.a. | W23 |
| T 24 | 20 5 | 25 21 | 4 59 | 23 32 | 2 2 | 22 6 | 1 21 | 1 15 | 0 7 | 21 9 | 0 29 | 5 19 | 2 37 | 2 30 | 0 36 | 16 9 | 1 41 | 7 44 | 9 52 | 13 3 | 13 1 | 18 22 | | n.a. | T 24 |
| F 25 | 19 52 | 21 42 | 4 56 | 23 13 | 2 3 | 22 13 | 1 17 | 1 32 | 0 8 | 21 11 | 0 29 | 5 20 | 2 37 | 2 31 | 0 36 | 16 9 | 1 41 | 7 44 | 9 52 | 12 58 | 13 0 | 18 25 | | n.a. | F 25 |
| S 26 | 19 38 | 16 58 | 4 36 | 22 52 | 2 3 | 22 20 | 1 14 | 1 48 | 0 8 | 21 12 | 0 29 | 5 21 | 2 38 | 2 32 | 0 36 | 16 9 | 1 41 | 7 44 | 9 51 | 12 54 | 12 59 | 18 28 | | n.a. | S 26 |
| S 27 | 19 23 | 11 33 | 4 2 | 22 30 | 2 3 | 22 27 | 1 10 | 2 5 | 0 9 | 21 14 | 0 29 | 5 22 | 2 38 | 2 33 | 0 36 | 16 9 | 1 40 | 7 45 | 9 51 | 12 51 | 12 58 | 18 30 | | n.a. | S 27 |
| M28 | 19 9 | 5 47 | 3 16 | 22 5 | 2 2 | 22 32 | 1 7 | 2 22 | 0 10 | 21 16 | 0 29 | 5 23 | 2 38 | 2 34 | 0 36 | 16 9 | 1 40 | 7 45 | 9 51 | 12 48 | 12 57 | 18 33 | | n.a. | M28 |
| T 29 | 18 54 | 0 s 3 | 2 21 | 21 39 | 2 0 | 22 38 | 1 3 | 2 39 | 0 11 | 21 18 | 0 29 | 5 24 | 2 38 | 2 34 | 0 36 | 16 9 | 1 40 | 7 45 | 9 51 | 12 47 | 12 55 | 18 36 | | n.a. | T 29 |
| W30 | 18 39 | 5 46 | 1 22 | 21 10 | 1 59 | 22 42 | 1 0 | 2 55 | 0 12 | 21 19 | 0 29 | 5 26 | 2 39 | 2 35 | 0 36 | 16 9 | 1 40 | 7 45 | 9 50 | 12 46 | 12 54 | 18 39 | | n.a. | W30 |
| T 31 | 18 s23 | 11 s10 | 0n19 | 20 s40 | 1 s56 | 22 s46 | 0n57 | 3n12 | 0n13 | 21 s21 | 0n29 | 5n27 | 2n39 | 2n36 | 0 s36 | 16n 9 | 1 s40 | 7n45 | 9 s50 | 12n46 | 12n53 | 18 s41 | | n.a. | T 31 |

Julian Day Number = 1691837.5, Delta T = 03h10m04s
Ecliptic obliquity = 23°42'25, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°10'58, Lahiri = - 5°03'58 Julian Calendar 1 Jan. 81 BCE == Greg. Calendar 30 Dec. 082 BCE

The year -80 astronomical counting style corresponds to year 081 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 81 BCE
# geocentric

## FEBRUARY 81 BCE (-80) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 8 30 20 | 9♒20'48 | 11♏29 | 8♒36 | 1♑ 5 | 8♈ 9 | 7♐45 | 22°R26 | 7♈54 | 19°R20 | 17°R21 | 3°R19 | 3♉38 | 18♏20 | n.a. | F 1 |
| S 2 | 8 34 16 | 10°20'56 | 23°17 | 10°29 | 2°17 | 8°49 | 7°54 | 22♍23 | 7°57 | 19°D20 | 17♉21 | 3♉19 | 3°35 | 18°26 | n.a. | S 2 |
| S 3 | 8 38 13 | 11°21'03 | 5♐ 8 | 12°23 | 3°29 | 9°29 | 8° 4 | 22°20 | 7°59 | 19♉20 | 17°D21 | 3°17 | 3°32 | 18°33 | n.a. | S 3 |
| M 4 | 8 42 9 | 12°21'07 | 17° 8 | 14°18 | 4°41 | 10° 9 | 8°13 | 22°17 | 8° 1 | 19°20 | 17°21 | 3°12 | 3°29 | 18°40 | n.a. | M 4 |
| T 5 | 8 46 6 | 13°21'10 | 29°20 | 16°13 | 5°54 | 10°48 | 8°23 | 22°14 | 8° 3 | 19°21 | 17°21 | 3° 5 | 3°26 | 18°46 | n.a. | T 5 |
| W 6 | 8 50 3 | 14°21'11 | 11♑48 | 18° 9 | 7° 6 | 11°28 | 8°32 | 22°11 | 8° 6 | 19°21 | 17°21 | 2°55 | 3°23 | 18°53 | n.a. | W 6 |
| T 7 | 8 53 59 | 15°21'10 | 24°34 | 20° 6 | 8°18 | 12° 8 | 8°41 | 22° 8 | 8° 8 | 19°21 | 17°21 | 2°43 | 3°19 | 19° 0 | n.a. | T 7 |
| F 8 | 8 57 56 | 16°21'08 | 7♒39 | 22° 3 | 9°30 | 12°48 | 8°50 | 22° 5 | 8°10 | 19°21 | 17°21 | 2°30 | 3°16 | 19° 6 | n.a. | F 8 |
| S 9 | 9 1 52 | 17°21'03 | 21° 1 | 24° 1 | 10°42 | 13°27 | 8°59 | 22° 1 | 8°13 | 19°21 | 17°21 | 2°18 | 3°13 | 19°13 | n.a. | S 9 |
| S 10 | 9 5 49 | 18°20'56 | 4♓38 | 25°58 | 11°54 | 14° 7 | 9° 7 | 21°58 | 8°15 | 19°22 | 17°21 | 2° 7 | 3°10 | 19°20 | n.a. | S 10 |
| M11 | 9 9 45 | 19°20'47 | 18°26 | 27°55 | 13° 6 | 14°47 | 9°16 | 21°55 | 8°18 | 19°22 | 17°21 | 1°58 | 3° 7 | 19°26 | n.a. | M11 |
| T 12 | 9 13 42 | 20°20'35 | 2♈23 | 29°52 | 14°19 | 15°26 | 9°24 | 21°51 | 8°20 | 19°22 | 17°22 | 1°52 | 3° 4 | 19°33 | n.a. | T 12 |
| W13 | 9 17 38 | 21°20'22 | 16°24 | 1♓49 | 15°31 | 16° 6 | 9°33 | 21°47 | 8°23 | 19°23 | 17°22 | 1°49 | 3° 0 | 19°40 | n.a. | W13 |
| T 14 | 9 21 35 | 22°20'06 | 0♉29 | 3°44 | 16°43 | 16°45 | 9°41 | 21°44 | 8°25 | 19°23 | 17°22 | 1°D48 | 2°57 | 19°46 | n.a. | T 14 |
| F 15 | 9 25 32 | 23°19'47 | 14°35 | 5°37 | 17°56 | 17°25 | 9°49 | 21°40 | 8°28 | 19°23 | 17°22 | 1°48 | 2°54 | 19°53 | n.a. | F 15 |
| S 16 | 9 29 28 | 24°19'27 | 28°42 | 7°29 | 19° 8 | 18° 5 | 9°57 | 21°36 | 8°31 | 19°24 | 17°23 | 1°R48 | 2°51 | 19°59 | n.a. | S 16 |
| S 17 | 9 33 25 | 25°19'04 | 12♊47 | 9°19 | 20°20 | 18°44 | 10° 4 | 21°33 | 8°33 | 19°24 | 17°23 | 1°47 | 2°48 | 20° 6 | n.a. | S 17 |
| M18 | 9 37 21 | 26°18'38 | 26°51 | 11° 6 | 21°33 | 19°24 | 10°12 | 21°29 | 8°36 | 19°25 | 17°23 | 1°44 | 2°44 | 20°13 | n.a. | M18 |
| T 19 | 9 41 18 | 27°18'10 | 10♋51 | 12°50 | 22°45 | 20° 3 | 10°20 | 21°25 | 8°39 | 19°26 | 17°24 | 1°38 | 2°41 | 20°19 | n.a. | T 19 |
| W20 | 9 45 14 | 28°17'40 | 24°45 | 14°30 | 23°58 | 20°43 | 10°27 | 21°21 | 8°42 | 19°26 | 17°24 | 1°29 | 2°38 | 20°26 | n.a. | W20 |
| T 21 | 9 49 11 | 29°17'08 | 8♌30 | 16° 6 | 25°10 | 21°22 | 10°34 | 21°17 | 8°45 | 19°27 | 17°24 | 1°19 | 2°35 | 20°33 | n.a. | T 21 |
| F 22 | 9 53 7 | 0♓16'33 | 22° 1 | 17°38 | 26°22 | 22° 1 | 10°41 | 21°13 | 8°47 | 19°28 | 17°25 | 1° 8 | 2°32 | 20°39 | n.a. | F 22 |
| S 23 | 9 57 4 | 1°15'56 | 5♍17 | 19° 4 | 27°35 | 22°41 | 10°48 | 21° 8 | 8°50 | 19°28 | 17°25 | 0°58 | 2°29 | 20°46 | n.a. | S 23 |
| S 24 | 10 1 1 | 2°15'16 | 18°16 | 20°25 | 28°47 | 23°20 | 10°55 | 21° 4 | 8°53 | 19°29 | 17°26 | 0°50 | 2°25 | 20°53 | n.a. | S 24 |
| M25 | 10 4 57 | 3°14'35 | 0♎57 | 21°41 | 29°59 | 24° 0 | 11° 1 | 21° 0 | 8°56 | 19°30 | 17°26 | 0°43 | 2°22 | 20°59 | n.a. | M25 |
| T 26 | 10 8 54 | 4°13'51 | 13°20 | 22°51 | 1♒12 | 24°39 | 11° 8 | 20°56 | 8°59 | 19°31 | 17°27 | 0°39 | 2°19 | 21° 6 | n.a. | T 26 |
| W27 | 10 12 50 | 5°13'06 | 25°29 | 23°54 | 2°25 | 25°18 | 11°14 | 20°51 | 9° 2 | 19°31 | 17°27 | 0°D38 | 2°16 | 21°13 | n.a. | W27 |
| T 28 | 10 16 47 | 6°12'19 | 7♏27 | 24°50 | 3°38 | 25°58 | 11°20 | 20°47 | 9° 5 | 19°32 | 17°28 | 0°38 | 2°13 | 21°19 | n.a. | T 28 |
| F 29 | 10 20 43 | 7♓11'30 | 19♏18 | 25♓40 | 4♒50 | 26♈37 | 11♐26 | 20♍43 | 9♈ 8 | 19♉33 | 17♉28 | 0♉39 | 2♉10 | 21♏26 | n.a. | F 29 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 18s 7 | 16s 8 | 0s43 | 20s 8 | 1s53 | 22s49 | 0n53 | 3n28 | 0n13 | 21s23 | 0n29 | 5n28 | 2n39 | 2n37 | 0s36 | 16n 9 | 1s40 | 7n46 | 9s50 | 12n46 | 12n52 | 18s44 | | n.a. |
| S 2 | 17 51 | 20 28 | 1 44 | 19 34 | 1 50 | 22 52 | 0 50 | 3 45 | 0 14 | 21 24 | 0 29 | 5 29 | 2 39 | 2 38 | 0 36 | 16 9 | 1 40 | 7 46 | 9 50 | 12 45 | 12 51 | 18 47 | | n.a. |
| S 3 | 17 34 | 24 1 | 2 40 | 18 58 | 1 46 | 22 54 | 0 46 | 4 2 | 0 15 | 21 26 | 0 29 | 5 31 | 2 40 | 2 39 | 0 36 | 16 9 | 1 40 | 7 46 | 9 49 | 12 45 | 12 50 | 18 49 | | n.a. |
| M 4 | 17 17 | 26 33 | 3 30 | 18 20 | 1 41 | 22 55 | 0 43 | 4 18 | 0 16 | 21 27 | 0 28 | 5 32 | 2 40 | 2 40 | 0 36 | 16 9 | 1 40 | 7 46 | 9 49 | 12 43 | 12 49 | 18 52 | | n.a. |
| T 5 | 17 0 | 27 53 | 4 11 | 17 41 | 1 36 | 22 55 | 0 39 | 4 35 | 0 16 | 21 29 | 0 28 | 5 34 | 2 40 | 2 41 | 0 36 | 16 9 | 1 40 | 7 47 | 9 49 | 12 41 | 12 48 | 18 55 | | n.a. |
| W 6 | 16 42 | 27 50 | 4 41 | 16 59 | 1 30 | 22 55 | 0 36 | 4 51 | 0 17 | 21 30 | 0 28 | 5 35 | 2 40 | 2 42 | 0 36 | 16 10 | 1 40 | 7 47 | 9 49 | 12 37 | 12 47 | 18 57 | | n.a. |
| T 7 | 16 25 | 26 20 | 4 58 | 16 16 | 1 24 | 22 54 | 0 32 | 5 7 | 0 18 | 21 32 | 0 28 | 5 36 | 2 40 | 2 43 | 0 36 | 16 10 | 1 40 | 7 47 | 9 48 | 12 33 | 12 46 | 19 0 | | n.a. |
| F 8 | 16 7 | 23 23 | 5 0 | 15 31 | 1 17 | 22 53 | 0 29 | 5 24 | 0 19 | 21 33 | 0 28 | 5 38 | 2 41 | 2 44 | 0 36 | 16 10 | 1 40 | 7 47 | 9 48 | 12 29 | 12 45 | 19 3 | | n.a. |
| S 9 | 15 48 | 19 9 | 4 45 | 14 45 | 1 9 | 22 51 | 0 25 | 5 40 | 0 19 | 21 35 | 0 28 | 5 39 | 2 41 | 2 45 | 0 36 | 16 10 | 1 40 | 7 48 | 9 48 | 12 24 | 12 43 | 19 5 | | n.a. |
| S 10 | 15 30 | 13 52 | 4 14 | 13 57 | 1 1 | 22 48 | 0 22 | 5 56 | 0 20 | 21 36 | 0 28 | 5 41 | 2 41 | 2 46 | 0 36 | 16 10 | 1 40 | 7 48 | 9 48 | 12 20 | 12 42 | 19 8 | | n.a. |
| M11 | 15 11 | 7 49 | 3 28 | 13 8 | 0 52 | 22 45 | 0 19 | 6 12 | 0 21 | 21 37 | 0 28 | 5 43 | 2 41 | 2 47 | 0 36 | 16 10 | 1 39 | 7 48 | 9 47 | 12 17 | 12 41 | 19 11 | | n.a. |
| T 12 | 14 52 | 1 19 | 2 29 | 12 18 | 0 43 | 22 40 | 0 15 | 6 28 | 0 22 | 21 39 | 0 28 | 5 44 | 2 41 | 2 48 | 0 36 | 16 10 | 1 39 | 7 49 | 9 47 | 12 15 | 12 40 | 19 13 | | n.a. |
| W13 | 14 33 | 5n17 | 1 21 | 11 27 | 0 32 | 22 36 | 0 12 | 6 44 | 0 22 | 21 40 | 0 28 | 5 46 | 2 42 | 2 49 | 0 36 | 16 11 | 1 39 | 7 49 | 9 47 | 12 14 | 12 39 | 19 16 | | n.a. |
| T 14 | 14 13 | 11 40 | 0 7 | 10 35 | 0 22 | 22 30 | 0 9 | 7 1 | 0 23 | 21 41 | 0 28 | 5 47 | 2 42 | 2 50 | 0 36 | 16 11 | 1 39 | 7 49 | 9 46 | 12 14 | 12 38 | 19 19 | | n.a. |
| F 15 | 13 54 | 17 28 | 1n 7 | 9 43 | 0 11 | 22 24 | 0 5 | 7 16 | 0 24 | 21 42 | 0 28 | 5 49 | 2 42 | 2 51 | 0 36 | 16 11 | 1 39 | 7 50 | 9 46 | 12 14 | 12 37 | 19 21 | | n.a. |
| S 16 | 13 34 | 22 20 | 2 18 | 8 50 | 0n 1 | 22 17 | 0 2 | 7 32 | 0 24 | 21 44 | 0 28 | 5 51 | 2 42 | 2 52 | 0 36 | 16 11 | 1 39 | 7 50 | 9 46 | 12 14 | 12 36 | 19 24 | | n.a. |
| S 17 | 13 14 | 25 53 | 3 20 | 7 58 | 0 13 | 22 10 | 0s 1 | 7 48 | 0 25 | 21 45 | 0 28 | 5 52 | 2 42 | 2 53 | 0 36 | 16 11 | 1 39 | 7 50 | 9 46 | 12 14 | 12 35 | 19 27 | | n.a. |
| M18 | 12 53 | 27 50 | 4 10 | 7 5 | 0 26 | 22 2 | 0 4 | 8 4 | 0 26 | 21 46 | 0 28 | 5 54 | 2 43 | 2 54 | 0 36 | 16 11 | 1 39 | 7 50 | 9 45 | 12 12 | 12 34 | 19 29 | | n.a. |
| T 19 | 12 33 | 27 58 | 4 44 | 6 14 | 0 38 | 21 53 | 0 7 | 8 20 | 0 26 | 21 47 | 0 28 | 5 56 | 2 43 | 2 55 | 0 36 | 16 12 | 1 39 | 7 51 | 9 45 | 12 10 | 12 32 | 19 32 | | n.a. |
| W20 | 12 12 | 26 21 | 5 1 | 5 23 | 0 51 | 21 44 | 0 10 | 8 35 | 0 27 | 21 48 | 0 28 | 5 57 | 2 43 | 2 56 | 0 36 | 16 12 | 1 39 | 7 51 | 9 45 | 12 7 | 12 31 | 19 34 | | n.a. |
| T 21 | 11 51 | 23 11 | 5 1 | 4 33 | 1 4 | 21 34 | 0 14 | 8 51 | 0 28 | 21 49 | 0 28 | 5 59 | 2 43 | 2 58 | 0 36 | 16 12 | 1 39 | 7 52 | 9 45 | 12 4 | 12 30 | 19 37 | | n.a. |
| F 22 | 11 30 | 18 47 | 4 44 | 3 46 | 1 17 | 21 23 | 0 17 | 9 6 | 0 28 | 21 50 | 0 28 | 6 1 | 2 43 | 2 59 | 0 36 | 16 12 | 1 39 | 7 52 | 9 44 | 12 0 | 12 29 | 19 40 | | n.a. |
| S 23 | 11 9 | 13 34 | 4 11 | 2 59 | 1 30 | 21 12 | 0 20 | 9 22 | 0 29 | 21 51 | 0 28 | 6 3 | 2 43 | 3 0 | 0 36 | 16 13 | 1 39 | 7 52 | 9 44 | 11 56 | 12 28 | 19 42 | | n.a. |
| S 24 | 10 47 | 7 51 | 3 26 | 2 15 | 1 43 | 21 0 | 0 23 | 9 37 | 0 29 | 21 52 | 0 28 | 6 5 | 2 43 | 3 1 | 0 36 | 16 13 | 1 39 | 7 53 | 9 44 | 11 53 | 12 27 | 19 45 | | n.a. |
| M25 | 10 26 | 1 56 | 2 32 | 1 34 | 1 56 | 20 48 | 0 26 | 9 53 | 0 30 | 21 53 | 0 28 | 6 6 | 2 44 | 3 2 | 0 36 | 16 13 | 1 39 | 7 53 | 9 44 | 11 51 | 12 26 | 19 47 | | n.a. |
| T 26 | 10 4 | 3s55 | 1 31 | 0 55 | 2 8 | 20 34 | 0 28 | 10 8 | 0 31 | 21 54 | 0 28 | 6 8 | 2 44 | 3 3 | 0 36 | 16 13 | 1 39 | 7 53 | 9 43 | 11 50 | 12 25 | 19 50 | | n.a. |
| W27 | 9 42 | 9 32 | 0 28 | 0 19 | 2 20 | 20 21 | 0 31 | 10 23 | 0 31 | 21 55 | 0 28 | 6 10 | 2 44 | 3 5 | 0 36 | 16 14 | 1 38 | 7 54 | 9 43 | 11 49 | 12 24 | 19 53 | | n.a. |
| T 28 | 9 20 | 14 44 | 0s37 | 0n14 | 2 31 | 20 7 | 0 34 | 10 38 | 0 32 | 21 56 | 0 28 | 6 12 | 2 44 | 3 6 | 0 35 | 16 14 | 1 38 | 7 54 | 9 43 | 11 49 | 12 23 | 19 55 | | n.a. |
| F 29 | 8s58 | 19s20 | 1s39 | 0n43 | 2n41 | 19s52 | 0s37 | 10n53 | 0n32 | 21s57 | 0n28 | 6n14 | 2n44 | 3n 7 | 0s35 | 16n14 | 1s38 | 7n54 | 9s43 | 11n50 | 12n21 | 19s58 | | n.a. |

Julian Day Number = 1691868.5, Delta T = 03h10m03s
Ecliptic obliquity = 23°42'25, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°10'54, Lahiri = - 5°03'54 Julian Calendar 1 Feb. 81 BCE == Greg. Calendar 30 Jan. 081 BCE

The year -80 astronomical counting style corresponds to year 081 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 81 BCE
# geocentric

## MARCH 81 BCE (-80) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 24 40 | 8♓10'39 | 1♐ 6 | 26♓23 | 6♒ 3 | 27♈16 | 11♐32 | 20°R38 | 9♈11 | 19♉34 | 17♉29 | 0♉40 | 2♉ 6 | 21♏33 | n.a. | S 1 |
| S 2 | 10 28 36 | 9° 9'46 | 12°58 | 26°59 | 7°15 | 27°56 | 11°38 | 20♍34 | 9°14 | 19°35 | 17°29 | 0°R40 | 2° 3 | 21°39 | n.a. | S 2 |
| M 3 | 10 32 33 | 10° 8'51 | 24°59 | 27°27 | 8°28 | 28°35 | 11°43 | 20°29 | 9°17 | 19°36 | 17°30 | 0°39 | 2° 0 | 21°46 | n.a. | M 3 |
| T 4 | 10 36 30 | 11° 7'54 | 7♑13 | 27°49 | 9°41 | 29°14 | 11°49 | 20°25 | 9°20 | 19°37 | 17°31 | 0°35 | 1°57 | 21°53 | n.a. | T 4 |
| W 5 | 10 40 26 | 12° 6'56 | 19°45 | 28° 3 | 10°53 | 29°53 | 11°54 | 20°20 | 9°24 | 19°38 | 17°31 | 0°30 | 1°54 | 21°59 | n.a. | W 5 |
| T 6 | 10 44 23 | 13° 5'56 | 2♒37 | 28°10 | 12° 6 | 0♉33 | 11°59 | 20°16 | 9°27 | 19°39 | 17°32 | 0°23 | 1°50 | 22° 6 | n.a. | T 6 |
| F 7 | 10 48 19 | 14° 4'53 | 15°52 | 28°R10 | 13°19 | 1°12 | 12° 4 | 20°11 | 9°30 | 19°40 | 17°33 | 0°15 | 1°47 | 22°13 | n.a. | F 7 |
| S 8 | 10 52 16 | 15° 3'49 | 29°29 | 28° 3 | 14°32 | 1°51 | 12° 9 | 20° 7 | 9°33 | 19°42 | 17°33 | 0° 8 | 1°44 | 22°19 | n.a. | S 8 |
| S 9 | 10 56 12 | 16° 2'42 | 13♓26 | 27°51 | 15°44 | 2°30 | 12°13 | 20° 2 | 9°36 | 19°43 | 17°34 | 0° 1 | 1°41 | 22°26 | n.a. | S 9 |
| M10 | 11 0 9 | 17° 1'34 | 27°38 | 27°32 | 16°57 | 3° 9 | 12°18 | 19°58 | 9°40 | 19°44 | 17°35 | 29♈55 | 1°38 | 22°33 | n.a. | M10 |
| T 11 | 11 4 5 | 18° 0'23 | 12♈ 1 | 27° 7 | 18°10 | 3°48 | 12°22 | 19°53 | 9°43 | 19°45 | 17°36 | 29°52 | 1°35 | 22°39 | n.a. | T 11 |
| W12 | 11 8 2 | 18°59'10 | 26°29 | 26°37 | 19°23 | 4°27 | 12°26 | 19°48 | 9°46 | 19°46 | 17°36 | 29°D51 | 1°31 | 22°46 | n.a. | W12 |
| T 13 | 11 11 58 | 19°57'55 | 10♉57 | 26° 4 | 20°35 | 5° 7 | 12°30 | 19°44 | 9°49 | 19°48 | 17°37 | 29°51 | 1°28 | 22°52 | n.a. | T 13 |
| F 14 | 11 15 55 | 20°56'38 | 25°20 | 25°26 | 21°48 | 5°46 | 12°33 | 19°39 | 9°53 | 19°49 | 17°38 | 29°52 | 1°25 | 22°59 | n.a. | F 14 |
| S 15 | 11 19 52 | 21°55'18 | 9♊36 | 24°46 | 23° 1 | 6°25 | 12°37 | 19°35 | 9°56 | 19°50 | 17°39 | 29°54 | 1°22 | 23° 6 | n.a. | S 15 |
| S 16 | 11 23 48 | 22°53'56 | 23°43 | 24° 3 | 24°14 | 7° 4 | 12°40 | 19°30 | 9°59 | 19°52 | 17°40 | 29°R54 | 1°19 | 23°12 | n.a. | S 16 |
| M17 | 11 27 45 | 23°52'31 | 7♋39 | 23°20 | 25°26 | 7°43 | 12°43 | 19°26 | 10° 3 | 19°53 | 17°41 | 29°53 | 1°16 | 23°19 | n.a. | M17 |
| T 18 | 11 31 41 | 24°51'05 | 21°23 | 22°35 | 26°39 | 8°22 | 12°46 | 19°21 | 10° 6 | 19°55 | 17°41 | 29°51 | 1°12 | 23°26 | n.a. | T 18 |
| W19 | 11 35 38 | 25°49'36 | 4♌55 | 21°52 | 27°52 | 9° 1 | 12°49 | 19°16 | 10° 9 | 19°56 | 17°42 | 29°47 | 1° 9 | 23°32 | n.a. | W19 |
| T 20 | 11 39 34 | 26°48'04 | 18°15 | 21° 9 | 29° 5 | 9°40 | 12°52 | 19°12 | 10°13 | 19°58 | 17°43 | 29°42 | 1° 6 | 23°39 | n.a. | T 20 |
| F 21 | 11 43 31 | 27°46'31 | 1♍21 | 20°29 | 0♓18 | 10°19 | 12°54 | 19° 7 | 10°16 | 19°59 | 17°44 | 29°37 | 1° 3 | 23°46 | n.a. | F 21 |
| S 22 | 11 47 27 | 28°44'55 | 14°14 | 19°51 | 1°30 | 10°57 | 12°56 | 19° 3 | 10°19 | 20° 1 | 17°45 | 29°32 | 1° 0 | 23°52 | n.a. | S 22 |
| S 23 | 11 51 24 | 29°43'17 | 26°53 | 19°16 | 2°43 | 11°36 | 12°58 | 18°58 | 10°23 | 20° 2 | 17°46 | 29°27 | 0°56 | 23°59 | n.a. | S 23 |
| M24 | 11 55 21 | 0♈41'38 | 9♎19 | 18°45 | 3°56 | 12°15 | 13° 0 | 18°54 | 10°26 | 20° 4 | 17°47 | 29°25 | 0°53 | 24° 6 | n.a. | M24 |
| T 25 | 11 59 17 | 1°39'56 | 21°32 | 18°17 | 5° 9 | 12°54 | 13° 2 | 18°49 | 10°30 | 20° 5 | 17°48 | 29°23 | 0°50 | 24°12 | n.a. | T 25 |
| W26 | 12 3 14 | 2°38'13 | 3♏35 | 17°55 | 6°22 | 13°33 | 13° 3 | 18°45 | 10°33 | 20° 7 | 17°49 | 29°D23 | 0°47 | 24°19 | n.a. | W26 |
| T 27 | 12 7 10 | 3°36'28 | 15°30 | 17°36 | 7°35 | 14°12 | 13° 5 | 18°41 | 10°37 | 20° 9 | 17°50 | 29°24 | 0°44 | 24°26 | n.a. | T 27 |
| F 28 | 12 11 7 | 4°34'41 | 27°20 | 17°23 | 8°48 | 14°51 | 13° 6 | 18°36 | 10°40 | 20°10 | 17°51 | 29°25 | 0°41 | 24°32 | n.a. | F 28 |
| S 29 | 12 15 3 | 5°32'52 | 9♐ 9 | 17°15 | 10° 0 | 15°29 | 13° 7 | 18°32 | 10°43 | 20°12 | 17°52 | 29°27 | 0°37 | 24°39 | n.a. | S 29 |
| S 30 | 12 19 0 | 6°31'02 | 21° 1 | 17°D11 | 11°13 | 16° 8 | 13° 8 | 18°28 | 10°47 | 20°14 | 17°53 | 29°28 | 0°34 | 24°46 | n.a. | S 30 |
| M31 | 12 22 56 | 7♈29'11 | 3♑ 1 | 17♓12 | 12♓26 | 16♉47 | 13♐ 8 | 18♍24 | 10♈50 | 20♉15 | 17♉54 | 29°R29 | 0♉31 | 24♏52 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 8s36 | 23s10 | 2s37 | 1n 9 | 2n51 | 19s36 | 0s39 | 11n 8 | 0n33 | 21s58 | 0n28 | 6n16 | 2n44 | 3n 8 | 0s35 | 16n15 | 1s38 | 7n55 | 9s43 | 11n50 | 12n20 | 20s 0 | | n.a. |
| S 2 | 8 13 | 26 3 | 3 28 | 1 32 | 2 59 | 19 20 | 0 42 | 11 23 | 0 34 | 21 59 | 0 28 | 6 17 | 2 44 | 3 9 | 0 35 | 16 15 | 1 38 | 7 55 | 9 42 | 11 50 | 12 19 | 20 3 | | n.a. |
| M 3 | 7 51 | 27 47 | 4 11 | 1 50 | 3 7 | 19 4 | 0 45 | 11 37 | 0 34 | 21 59 | 0 28 | 6 19 | 2 44 | 3 11 | 0 35 | 16 15 | 1 38 | 7 56 | 9 42 | 11 50 | 12 18 | 20 6 | | n.a. |
| T 4 | 7 28 | 28 13 | 4 43 | 2 5 | 3 14 | 18 47 | 0 47 | 11 52 | 0 35 | 22 0 | 0 28 | 6 21 | 2 44 | 3 12 | 0 35 | 16 16 | 1 38 | 7 56 | 9 42 | 11 48 | 12 17 | 20 8 | | n.a. |
| W 5 | 7 6 | 27 13 | 5 3 | 2 15 | 3 19 | 18 29 | 0 50 | 12 6 | 0 35 | 22 1 | 0 28 | 6 23 | 2 44 | 3 13 | 0 35 | 16 16 | 1 38 | 7 56 | 9 42 | 11 46 | 12 16 | 20 11 | | n.a. |
| T 6 | 6 43 | 24 47 | 5 8 | 2 22 | 3 23 | 18 11 | 0 52 | 12 21 | 0 36 | 22 2 | 0 27 | 6 25 | 2 45 | 3 15 | 0 35 | 16 16 | 1 38 | 7 57 | 9 41 | 11 44 | 12 15 | 20 13 | | n.a. |
| F 7 | 6 20 | 20 58 | 4 57 | 2 24 | 3 26 | 17 53 | 0 54 | 12 35 | 0 36 | 22 2 | 0 27 | 6 27 | 2 45 | 3 16 | 0 35 | 16 17 | 1 38 | 7 57 | 9 41 | 11 41 | 12 14 | 20 16 | | n.a. |
| S 8 | 5 57 | 15 58 | 4 29 | 2 23 | 3 27 | 17 34 | 0 57 | 12 50 | 0 37 | 22 3 | 0 27 | 6 29 | 2 45 | 3 17 | 0 35 | 16 17 | 1 38 | 7 58 | 9 41 | 11 39 | 12 13 | 20 18 | | n.a. |
| S 9 | 5 34 | 10 2 | 3 45 | 2 18 | 3 27 | 17 14 | 0 59 | 13 4 | 0 37 | 22 4 | 0 27 | 6 30 | 2 45 | 3 18 | 0 35 | 16 17 | 1 38 | 7 58 | 9 41 | 11 36 | 12 11 | 20 21 | | n.a. |
| M10 | 5 11 | 3 29 | 2 46 | 2 8 | 3 25 | 16 54 | 1 1 | 13 18 | 0 38 | 22 4 | 0 27 | 6 32 | 2 45 | 3 20 | 0 35 | 16 18 | 1 38 | 7 58 | 9 40 | 11 34 | 12 10 | 20 23 | | n.a. |
| T 11 | 4 48 | 3n21 | 1 35 | 1 55 | 3 22 | 16 33 | 1 3 | 13 32 | 0 38 | 22 5 | 0 27 | 6 34 | 2 45 | 3 21 | 0 35 | 16 18 | 1 38 | 7 59 | 9 40 | 11 33 | 12 9 | 20 26 | | n.a. |
| W12 | 4 24 | 10 3 | 0 18 | 1 39 | 3 17 | 16 12 | 1 5 | 13 46 | 0 39 | 22 5 | 0 27 | 6 36 | 2 45 | 3 22 | 0 35 | 16 19 | 1 38 | 7 59 | 9 40 | 11 33 | 12 8 | 20 28 | | n.a. |
| T 13 | 4 1 | 16 14 | 1n 0 | 1 20 | 3 11 | 15 51 | 1 7 | 13 59 | 0 40 | 22 6 | 0 27 | 6 38 | 2 45 | 3 24 | 0 35 | 16 19 | 1 38 | 8 0 | 9 40 | 11 33 | 12 7 | 20 31 | | n.a. |
| F 14 | 3 38 | 21 29 | 2 14 | 0 57 | 3 2 | 15 29 | 1 9 | 14 13 | 0 40 | 22 6 | 0 27 | 6 40 | 2 45 | 3 25 | 0 35 | 16 19 | 1 38 | 8 0 | 9 40 | 11 33 | 12 6 | 20 33 | | n.a. |
| S 15 | 3 14 | 25 25 | 3 19 | 0 32 | 2 53 | 15 7 | 1 11 | 14 27 | 0 41 | 22 7 | 0 27 | 6 42 | 2 45 | 3 26 | 0 35 | 16 20 | 1 38 | 8 1 | 9 39 | 11 34 | 12 5 | 20 36 | | n.a. |
| S 16 | 2 51 | 27 45 | 4 12 | 0 5 | 2 42 | 14 44 | 1 13 | 14 40 | 0 41 | 22 7 | 0 27 | 6 43 | 2 45 | 3 28 | 0 35 | 16 20 | 1 37 | 8 1 | 9 39 | 11 34 | 12 4 | 20 39 | | n.a. |
| M17 | 2 28 | 28 17 | 4 48 | 0s23 | 2 30 | 14 21 | 1 14 | 14 53 | 0 41 | 22 8 | 0 27 | 6 45 | 2 45 | 3 29 | 0 35 | 16 21 | 1 37 | 8 1 | 9 39 | 11 33 | 12 3 | 20 41 | | n.a. |
| T 18 | 2 4 | 27 3 | 5 8 | 0 53 | 2 16 | 13 58 | 1 16 | 15 7 | 0 42 | 22 8 | 0 27 | 6 47 | 2 45 | 3 30 | 0 35 | 16 21 | 1 37 | 8 2 | 9 39 | 11 33 | 12 1 | 20 44 | | n.a. |
| W19 | 1 41 | 24 16 | 5 10 | 1 24 | 2 2 | 13 34 | 1 18 | 15 20 | 0 42 | 22 9 | 0 27 | 6 49 | 2 45 | 3 32 | 0 35 | 16 22 | 1 37 | 8 2 | 9 38 | 11 31 | 12 0 | 20 46 | | n.a. |
| T 20 | 1 17 | 20 12 | 4 55 | 1 54 | 1 47 | 13 9 | 1 19 | 15 33 | 0 43 | 22 9 | 0 27 | 6 51 | 2 45 | 3 33 | 0 35 | 16 22 | 1 37 | 8 3 | 9 38 | 11 29 | 11 59 | 20 48 | | n.a. |
| F 21 | 0 54 | 15 14 | 4 25 | 2 25 | 1 31 | 12 45 | 1 21 | 15 46 | 0 43 | 22 9 | 0 27 | 6 52 | 2 45 | 3 34 | 0 35 | 16 22 | 1 37 | 8 3 | 9 38 | 11 28 | 11 58 | 20 51 | | n.a. |
| S 22 | 0 30 | 9 41 | 3 42 | 2 55 | 1 15 | 12 20 | 1 22 | 15 58 | 0 44 | 22 10 | 0 27 | 6 54 | 2 45 | 3 36 | 0 35 | 16 23 | 1 37 | 8 4 | 9 38 | 11 26 | 11 57 | 20 53 | | n.a. |
| S 23 | 0 7 | 3 50 | 2 49 | 3 24 | 0 59 | 11 55 | 1 23 | 16 11 | 0 44 | 22 10 | 0 27 | 6 56 | 2 45 | 3 37 | 0 35 | 16 23 | 1 37 | 8 4 | 9 38 | 11 24 | 11 56 | 20 56 | | n.a. |
| M24 | 0n17 | 2s 5 | 1 48 | 3 51 | 0 42 | 11 29 | 1 25 | 16 24 | 0 45 | 22 10 | 0 27 | 6 58 | 2 45 | 3 38 | 0 35 | 16 24 | 1 37 | 8 5 | 9 37 | 11 23 | 11 55 | 20 58 | | n.a. |
| T 25 | 0 40 | 7 50 | 0 43 | 4 17 | 0 26 | 11 3 | 1 26 | 16 36 | 0 45 | 22 10 | 0 27 | 6 59 | 2 45 | 3 40 | 0 35 | 16 24 | 1 37 | 8 5 | 9 37 | 11 23 | 11 54 | 21 1 | | n.a. |
| W26 | 1 4 | 13 13 | 0s23 | 4 41 | 0 10 | 10 37 | 1 27 | 16 48 | 0 46 | 22 11 | 0 27 | 7 1 | 2 45 | 3 41 | 0 35 | 16 25 | 1 37 | 8 6 | 9 37 | 11 23 | 11 52 | 21 3 | | n.a. |
| T 27 | 1 27 | 18 3 | 1 28 | 5 3 | 0s 6 | 10 11 | 1 28 | 17 1 | 0 46 | 22 11 | 0 27 | 7 3 | 2 45 | 3 43 | 0 35 | 16 25 | 1 37 | 8 6 | 9 37 | 11 23 | 11 51 | 21 6 | | n.a. |
| F 28 | 1 50 | 22 11 | 2 28 | 5 22 | 0 22 | 9 44 | 1 29 | 17 13 | 0 46 | 22 11 | 0 27 | 7 5 | 2 45 | 3 44 | 0 35 | 16 26 | 1 37 | 8 6 | 9 37 | 11 23 | 11 50 | 21 8 | | n.a. |
| S 29 | 2 14 | 25 23 | 3 22 | 5 39 | 0 37 | 9 17 | 1 30 | 17 24 | 0 47 | 22 11 | 0 27 | 7 6 | 2 45 | 3 45 | 0 35 | 16 26 | 1 37 | 8 7 | 9 37 | 11 24 | 11 49 | 21 11 | | n.a. |
| S 30 | 2 37 | 27 31 | 4 7 | 5 54 | 0 51 | 8 50 | 1 30 | 17 36 | 0 47 | 22 11 | 0 27 | 7 8 | 2 45 | 3 47 | 0 35 | 16 27 | 1 37 | 8 7 | 9 36 | 11 25 | 11 48 | 21 13 | | n.a. |
| M31 | 3n 0 | 28s23 | 4s43 | 6s 6 | 1s 5 | 8s22 | 1s31 | 17n48 | 0n48 | 22s12 | 0n26 | 7n 9 | 2n44 | 3n48 | 0s35 | 16n27 | 1s37 | 8n 8 | 9s36 | 11n25 | 11n47 | 21s16 | | n.a. |

Julian Day Number = 1691897.5, Delta T = 03h10m03s
Ecliptic obliquity = 23°42'26, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°10'50, Lahiri = - 5°03'50 Julian Calendar 1 March 81 BCE == Greg. Calendar 28 Feb. 081 BCE

The year -80 astronomical counting style corresponds to year 081 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 81 BCE
# geocentric

## APRIL 81 BCE (-80) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 26 53 | 8♈27'18 | 15♉15 | 17♓19 | 13♓39 | 17♉26 | 13♐ 9 | 18°R19 | 10♈54 | 20♉17 | 17♉56 | 29°R29 | 0♉28 | 24♏59 | n.a. | T 1 |
| W 2 | 12 30 50 | 9°25'23 | 27°45 | 17°30 | 14°52 | 18° 4 | 13° 9 | 18♍15 | 10°57 | 20°19 | 17°57 | 29♈28 | 0°25 | 25° 6 | n.a. | W 2 |
| T 3 | 12 34 46 | 10°23'27 | 10♒37 | 17°45 | 16° 5 | 18°43 | 13°R 9 | 18°11 | 11° 1 | 20°21 | 17°58 | 29°26 | 0°21 | 25°12 | n.a. | T 3 |
| F 4 | 12 38 43 | 11°21'30 | 23°53 | 18° 5 | 17°18 | 19°22 | 13° 9 | 18° 7 | 11° 4 | 20°22 | 17°59 | 29°24 | 0°18 | 25°19 | n.a. | F 4 |
| S 5 | 12 42 39 | 12°19'30 | 7♓35 | 18°30 | 18°31 | 20° 0 | 13° 8 | 18° 3 | 11° 8 | 20°24 | 18° 0 | 29°22 | 0°15 | 25°26 | n.a. | S 5 |
| S 6 | 12 46 36 | 13°17'30 | 21°41 | 18°59 | 19°44 | 20°39 | 13° 8 | 17°59 | 11°11 | 20°26 | 18° 1 | 29°19 | 0°12 | 25°32 | n.a. | S 6 |
| M 7 | 12 50 32 | 14°15'27 | 6♈ 8 | 19°32 | 20°57 | 21°18 | 13° 7 | 17°55 | 11°14 | 20°28 | 18° 2 | 29°18 | 0° 9 | 25°39 | n.a. | M 7 |
| T 8 | 12 54 29 | 15°13'23 | 20°50 | 20° 9 | 22°10 | 21°56 | 13° 6 | 17°52 | 11°18 | 20°30 | 18° 4 | 29°17 | 0° 6 | 25°46 | n.a. | T 8 |
| W 9 | 12 58 25 | 16°11'18 | 5♉42 | 20°50 | 23°23 | 22°35 | 13° 5 | 17°48 | 11°21 | 20°32 | 18° 5 | 29°D17 | 0° 2 | 25°52 | n.a. | W 9 |
| T 10 | 13 2 22 | 17° 9'10 | 20°34 | 21°34 | 24°36 | 23°14 | 13° 3 | 17°44 | 11°25 | 20°34 | 18° 6 | 29°18 | 29♈59 | 25°59 | n.a. | T 10 |
| F 11 | 13 6 18 | 18° 7'01 | 5♊21 | 22°22 | 25°49 | 23°52 | 13° 2 | 17°40 | 11°28 | 20°36 | 18° 7 | 29°18 | 29°56 | 26° 6 | n.a. | F 11 |
| S 12 | 13 10 15 | 19° 4'51 | 19°55 | 23°14 | 27° 2 | 24°31 | 13° 0 | 17°37 | 11°32 | 20°38 | 18° 9 | 29°19 | 29°53 | 26°12 | n.a. | S 12 |
| S 13 | 13 14 12 | 20° 2'38 | 4♋13 | 24° 9 | 28°15 | 25° 9 | 12°58 | 17°33 | 11°35 | 20°40 | 18°10 | 29°20 | 29°50 | 26°19 | n.a. | S 13 |
| M14 | 13 18 8 | 21° 0'24 | 18°13 | 25° 7 | 29°28 | 25°48 | 12°56 | 17°30 | 11°39 | 20°42 | 18°11 | 29°R20 | 29°47 | 26°26 | n.a. | M14 |
| T 15 | 13 22 5 | 21°58'08 | 1♌52 | 26° 8 | 0♈41 | 26°26 | 12°54 | 17°26 | 11°42 | 20°44 | 18°12 | 29°20 | 29°43 | 26°32 | n.a. | T 15 |
| W16 | 13 26 1 | 22°55'50 | 15°13 | 27°11 | 1°54 | 27° 5 | 12°52 | 17°23 | 11°45 | 20°46 | 18°14 | 29°20 | 29°40 | 26°39 | n.a. | W16 |
| T 17 | 13 29 58 | 23°53'30 | 28°16 | 28°18 | 3° 7 | 27°43 | 12°49 | 17°20 | 11°49 | 20°48 | 18°15 | 29°19 | 29°37 | 26°46 | n.a. | T 17 |
| F 18 | 13 33 54 | 24°51'08 | 11♍ 4 | 29°28 | 4°20 | 28°22 | 12°46 | 17°17 | 11°52 | 20°50 | 18°16 | 29°19 | 29°34 | 26°52 | n.a. | F 18 |
| S 19 | 13 37 51 | 25°48'45 | 23°37 | 0♈40 | 5°33 | 29° 0 | 12°43 | 17°14 | 11°56 | 20°52 | 18°17 | 29°18 | 29°31 | 26°59 | n.a. | S 19 |
| S 20 | 13 41 47 | 26°46'21 | 5♎58 | 1°55 | 6°46 | 29°39 | 12°40 | 17°11 | 11°59 | 20°54 | 18°19 | 29°18 | 29°27 | 27° 5 | n.a. | S 20 |
| M21 | 13 45 44 | 27°43'55 | 18° 8 | 3°13 | 7°59 | 0♊17 | 12°37 | 17° 8 | 12° 2 | 20°56 | 18°20 | 29°18 | 29°24 | 27°12 | n.a. | M21 |
| T 22 | 13 49 41 | 28°41'27 | 0♏10 | 4°33 | 9°12 | 0°56 | 12°33 | 17° 5 | 12° 6 | 20°58 | 18°21 | 29°D18 | 29°21 | 27°19 | n.a. | T 22 |
| W23 | 13 53 37 | 29°38'59 | 12° 6 | 5°56 | 10°25 | 1°34 | 12°30 | 17° 2 | 12° 9 | 21° 0 | 18°23 | 29°R18 | 29°18 | 27°25 | n.a. | W23 |
| T 24 | 13 57 34 | 0♉36'29 | 23°57 | 7°21 | 11°38 | 2°12 | 12°26 | 16°59 | 12°12 | 21° 2 | 18°24 | 29°18 | 29°15 | 27°32 | n.a. | T 24 |
| F 25 | 14 1 30 | 1°33'58 | 5♐46 | 8°49 | 12°51 | 2°51 | 12°22 | 16°57 | 12°16 | 21° 4 | 18°25 | 29°17 | 29°12 | 27°39 | n.a. | F 25 |
| S 26 | 14 5 27 | 2°31'26 | 17°36 | 10°19 | 14° 4 | 3°29 | 12°18 | 16°54 | 12°19 | 21° 6 | 18°27 | 29°17 | 29° 8 | 27°45 | n.a. | S 26 |
| S 27 | 14 9 23 | 3°28'53 | 29°29 | 11°51 | 15°17 | 4° 8 | 12°14 | 16°52 | 12°22 | 21° 9 | 18°28 | 29°17 | 29° 5 | 27°52 | n.a. | S 27 |
| M28 | 14 13 20 | 4°26'20 | 11♑31 | 13°26 | 16°30 | 4°46 | 12° 9 | 16°49 | 12°25 | 21°11 | 18°29 | 29°16 | 29° 2 | 27°59 | n.a. | M28 |
| T 29 | 14 17 16 | 5°23'45 | 23°44 | 15° 3 | 17°44 | 5°24 | 12° 4 | 16°47 | 12°29 | 21°13 | 18°31 | 29°16 | 28°59 | 28° 5 | n.a. | T 29 |
| W30 | 14 21 13 | 6♉21'09 | 6♒12 | 16♈43 | 18♈57 | 6♊ 3 | 12♐ 0 | 16♍45 | 12♈32 | 21♉15 | 18♉32 | 29°D15 | 28♈56 | 28♏12 | n.a. | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3n23 | 27s53 | 5s 6 | 6s15 | 1s18 | 7s54 | 1s32 | 17n59 | 0n48 | 22s12 | 0n26 | 7n11 | 2n44 | 3n49 | 0s35 | 16n28 | 1s37 | 8n 8 | 9s36 | 11n25 | 11n46 | 21s18 | | n.a. |
| W 2 | 3 46 | 25 59 | 5 15 | 6 22 | 1 30 | 7 27 | 1 32 | 18 11 | 0 49 | 22 12 | 0 26 | 7 13 | 2 44 | 3 51 | 0 35 | 16 28 | 1 37 | 8 9 | 9 36 | 11 24 | 11 45 | 21 20 | | n.a. |
| T 3 | 4 10 | 22 43 | 5 10 | 6 27 | 1 42 | 6 58 | 1 33 | 18 22 | 0 49 | 22 12 | 0 26 | 7 14 | 2 44 | 3 52 | 0 35 | 16 29 | 1 37 | 8 9 | 9 36 | 11 24 | 11 43 | 21 23 | | n.a. |
| F 4 | 4 32 | 18 13 | 4 47 | 6 29 | 1 52 | 6 30 | 1 33 | 18 33 | 0 49 | 22 12 | 0 26 | 7 16 | 2 44 | 3 53 | 0 35 | 16 29 | 1 37 | 8 10 | 9 35 | 11 23 | 11 42 | 21 25 | | n.a. |
| S 5 | 4 55 | 12 39 | 4 8 | 6 28 | 2 2 | 6 2 | 1 34 | 18 44 | 0 50 | 22 12 | 0 26 | 7 17 | 2 44 | 3 55 | 0 35 | 16 30 | 1 37 | 8 10 | 9 35 | 11 22 | 11 41 | 21 28 | | n.a. |
| S 6 | 5 18 | 6 17 | 3 13 | 6 25 | 2 11 | 5 33 | 1 34 | 18 55 | 0 50 | 22 12 | 0 26 | 7 19 | 2 44 | 3 56 | 0 35 | 16 30 | 1 36 | 8 11 | 9 35 | 11 21 | 11 40 | 21 30 | | n.a. |
| M 7 | 5 41 | 0n33 | 2 5 | 6 20 | 2 20 | 5 4 | 1 34 | 19 6 | 0 50 | 22 12 | 0 26 | 7 20 | 2 44 | 3 58 | 0 35 | 16 31 | 1 36 | 8 11 | 9 35 | 11 21 | 11 39 | 21 32 | | n.a. |
| T 8 | 6 4 | 7 30 | 0 47 | 6 12 | 2 27 | 4 35 | 1 34 | 19 16 | 0 51 | 22 12 | 0 26 | 7 21 | 2 44 | 3 59 | 0 35 | 16 32 | 1 36 | 8 12 | 9 35 | 11 21 | 11 38 | 21 35 | | n.a. |
| W 9 | 6 26 | 14 7 | 0n35 | 6 2 | 2 34 | 4 6 | 1 35 | 19 27 | 0 51 | 22 12 | 0 26 | 7 23 | 2 44 | 4 0 | 0 35 | 16 32 | 1 36 | 8 12 | 9 35 | 11 21 | 11 37 | 21 37 | | n.a. |
| T 10 | 6 49 | 19 57 | 1 55 | 5 49 | 2 40 | 3 37 | 1 35 | 19 37 | 0 52 | 22 11 | 0 26 | 7 24 | 2 44 | 4 2 | 0 35 | 16 33 | 1 36 | 8 13 | 9 35 | 11 21 | 11 36 | 21 40 | | n.a. |
| F 11 | 7 11 | 24 30 | 3 7 | 5 35 | 2 45 | 3 7 | 1 35 | 19 47 | 0 52 | 22 11 | 0 26 | 7 26 | 2 43 | 4 3 | 0 35 | 16 33 | 1 36 | 8 13 | 9 34 | 11 21 | 11 34 | 21 42 | | n.a. |
| S 12 | 7 33 | 27 24 | 4 5 | 5 19 | 2 50 | 2 38 | 1 34 | 19 57 | 0 52 | 22 11 | 0 26 | 7 27 | 2 43 | 4 4 | 0 35 | 16 34 | 1 36 | 8 13 | 9 34 | 11 21 | 11 33 | 21 44 | | n.a. |
| S 13 | 7 55 | 28 25 | 4 47 | 5 0 | 2 54 | 2 9 | 1 34 | 20 7 | 0 53 | 22 11 | 0 26 | 7 28 | 2 43 | 4 6 | 0 35 | 16 34 | 1 36 | 8 14 | 9 34 | 11 22 | 11 32 | 21 47 | | n.a. |
| M14 | 8 17 | 27 35 | 5 11 | 4 40 | 2 57 | 1 39 | 1 34 | 20 17 | 0 53 | 22 11 | 0 26 | 7 29 | 2 43 | 4 7 | 0 35 | 16 35 | 1 36 | 8 14 | 9 34 | 11 22 | 11 31 | 21 49 | | n.a. |
| T 15 | 8 39 | 25 6 | 5 17 | 4 17 | 2 59 | 1 9 | 1 34 | 20 26 | 0 53 | 22 11 | 0 26 | 7 31 | 2 43 | 4 8 | 0 35 | 16 35 | 1 36 | 8 15 | 9 34 | 11 22 | 11 30 | 21 51 | | n.a. |
| W16 | 9 1 | 21 18 | 5 5 | 3 53 | 3 0 | 0 40 | 1 33 | 20 36 | 0 54 | 22 10 | 0 26 | 7 32 | 2 43 | 4 10 | 0 35 | 16 36 | 1 36 | 8 15 | 9 34 | 11 21 | 11 29 | 21 54 | | n.a. |
| T 17 | 9 22 | 16 32 | 4 38 | 3 27 | 3 1 | 0 10 | 1 33 | 20 45 | 0 54 | 22 10 | 0 25 | 7 33 | 2 43 | 4 11 | 0 35 | 16 37 | 1 36 | 8 16 | 9 34 | 11 21 | 11 28 | 21 56 | | n.a. |
| F 18 | 9 44 | 11 8 | 3 57 | 2 59 | 3 2 | 0n20 | 1 32 | 20 54 | 0 54 | 22 10 | 0 25 | 7 34 | 2 42 | 4 12 | 0 35 | 16 37 | 1 36 | 8 16 | 9 33 | 11 21 | 11 27 | 21 58 | | n.a. |
| S 19 | 10 5 | 5 24 | 3 5 | 2 30 | 3 1 | 0 50 | 1 32 | 21 3 | 0 55 | 22 9 | 0 25 | 7 35 | 2 42 | 4 14 | 0 35 | 16 38 | 1 36 | 8 17 | 9 33 | 11 21 | 11 25 | 22 1 | | n.a. |
| S 20 | 10 26 | 0s28 | 2 6 | 1 58 | 3 0 | 1 19 | 1 31 | 21 12 | 0 55 | 22 9 | 0 25 | 7 36 | 2 42 | 4 15 | 0 35 | 16 38 | 1 36 | 8 17 | 9 33 | 11 21 | 11 24 | 22 3 | | n.a. |
| M21 | 10 47 | 6 15 | 1 2 | 1 26 | 2 58 | 1 49 | 1 30 | 21 20 | 0 55 | 22 9 | 0 25 | 7 37 | 2 42 | 4 16 | 0 35 | 16 39 | 1 36 | 8 18 | 9 33 | 11 21 | 11 23 | 22 5 | | n.a. |
| T 22 | 11 8 | 11 44 | 0s 5 | 0 51 | 2 56 | 2 19 | 1 30 | 21 29 | 0 56 | 22 8 | 0 25 | 7 38 | 2 42 | 4 18 | 0 35 | 16 39 | 1 36 | 8 18 | 9 33 | 11 21 | 11 22 | 22 8 | | n.a. |
| W23 | 11 28 | 16 45 | 1 11 | 0 15 | 2 53 | 2 49 | 1 29 | 21 37 | 0 56 | 22 8 | 0 25 | 7 39 | 2 42 | 4 19 | 0 35 | 16 40 | 1 36 | 8 19 | 9 33 | 11 21 | 11 21 | 22 10 | | n.a. |
| T 24 | 11 49 | 21 7 | 2 13 | 0n22 | 2 49 | 3 18 | 1 28 | 21 45 | 0 56 | 22 8 | 0 25 | 7 40 | 2 41 | 4 20 | 0 35 | 16 41 | 1 36 | 8 19 | 9 33 | 11 21 | 11 20 | 22 12 | | n.a. |
| F 25 | 12 9 | 24 36 | 3 9 | 1 1 | 2 45 | 3 48 | 1 27 | 21 53 | 0 57 | 22 7 | 0 25 | 7 41 | 2 41 | 4 22 | 0 35 | 16 41 | 1 36 | 8 19 | 9 33 | 11 21 | 11 19 | 22 15 | | n.a. |
| S 26 | 12 29 | 27 3 | 3 57 | 1 41 | 2 40 | 4 18 | 1 26 | 22 1 | 0 57 | 22 7 | 0 25 | 7 42 | 2 41 | 4 23 | 0 35 | 16 42 | 1 36 | 8 20 | 9 33 | 11 20 | 11 17 | 22 17 | | n.a. |
| S 27 | 12 49 | 28 18 | 4 36 | 2 22 | 2 34 | 4 47 | 1 25 | 22 9 | 0 57 | 22 6 | 0 25 | 7 42 | 2 41 | 4 24 | 0 35 | 16 42 | 1 36 | 8 20 | 9 32 | 11 20 | 11 16 | 22 19 | | n.a. |
| M28 | 13 9 | 28 13 | 5 2 | 3 5 | 2 29 | 5 17 | 1 24 | 22 16 | 0 57 | 22 6 | 0 25 | 7 43 | 2 41 | 4 26 | 0 35 | 16 43 | 1 36 | 8 21 | 9 32 | 11 20 | 11 15 | 22 22 | | n.a. |
| T 29 | 13 28 | 26 47 | 5 16 | 3 49 | 2 22 | 5 46 | 1 22 | 22 23 | 0 58 | 22 5 | 0 25 | 7 44 | 2 40 | 4 27 | 0 35 | 16 44 | 1 36 | 8 21 | 9 32 | 11 20 | 11 14 | 22 24 | | n.a. |
| W30 | 13n47 | 24s 0 | 5s15 | 4n34 | 2s15 | 6n15 | 1s21 | 22n30 | 0n58 | 22s 5 | 0n24 | 7n45 | 2n40 | 4n28 | 0s35 | 16n44 | 1s36 | 8n22 | 9s32 | 11n20 | 11n13 | 22s26 | | n.a. |

Julian Day Number = 1691928.5, Delta T = 03h10m02s
Ecliptic obliquity = 23°42'26, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°10'46, Lahiri = - 5°03'45 Julian Calendar 1 Apr. 81 BCE == Greg. Calendar 30 March 081 BCE


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# ASTRODIENST EPHEMERIS for the year 81 BCE
# geocentric

## MAY 81 BCE (-80) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 25 10 | 7♉18'33 | 19♒ 0 | 18♈25 | 20♈10 | 6♊41 | 11°R55 | 16°R43 | 12♈35 | 21♉17 | 18♉33 | 29♈16 | 28♈53 | 28♏19 | n.a. | T 1 |
| F 2 | 14 29 6 | 8°15'56 | 2♓12 | 20°10 | 21°23 | 7°19 | 11♐50 | 16♍41 | 12°38 | 21°19 | 18°35 | 29°16 | 28°49 | 28°25 | n.a. | F 2 |
| S 3 | 14 33 3 | 9°13'18 | 15°49 | 21°56 | 22°36 | 7°57 | 11°44 | 16°39 | 12°41 | 21°22 | 18°36 | 29°17 | 28°46 | 28°32 | n.a. | S 3 |
| S 4 | 14 36 59 | 10°10'40 | 29°52 | 23°46 | 23°49 | 8°36 | 11°39 | 16°37 | 12°45 | 21°24 | 18°38 | 29°18 | 28°43 | 28°39 | n.a. | S 4 |
| M 5 | 14 40 56 | 11° 8'00 | 14♈20 | 25°37 | 25° 2 | 9°14 | 11°33 | 16°35 | 12°48 | 21°26 | 18°39 | 29°18 | 28°40 | 28°45 | n.a. | M 5 |
| T 6 | 14 44 52 | 12° 5'20 | 29°10 | 27°31 | 26°16 | 9°52 | 11°28 | 16°34 | 12°51 | 21°28 | 18°40 | 29°R19 | 28°37 | 28°52 | n.a. | T 6 |
| W 7 | 14 48 49 | 13° 2'39 | 14♉14 | 29°27 | 27°29 | 10°30 | 11°22 | 16°32 | 12°54 | 21°30 | 18°42 | 29°18 | 28°33 | 28°59 | n.a. | W 7 |
| T 8 | 14 52 45 | 13°59'58 | 29°23 | 1♉25 | 28°42 | 11° 9 | 11°16 | 16°31 | 12°57 | 21°33 | 18°43 | 29°17 | 28°30 | 29° 5 | n.a. | T 8 |
| F 9 | 14 56 42 | 14°57'15 | 14♊29 | 3°25 | 29°55 | 11°47 | 11°10 | 16°29 | 13° 0 | 21°35 | 18°44 | 29°16 | 28°27 | 29°12 | n.a. | F 9 |
| S 10 | 15 0 39 | 15°54'32 | 29°22 | 5°27 | 1♉ 8 | 12°25 | 11° 4 | 16°28 | 13° 3 | 21°37 | 18°46 | 29°14 | 28°24 | 29°19 | n.a. | S 10 |
| S 11 | 15 4 35 | 16°51'48 | 13♋56 | 7°31 | 2°22 | 13° 3 | 10°58 | 16°27 | 13° 6 | 21°39 | 18°47 | 29°12 | 28°21 | 29°25 | n.a. | S 11 |
| M12 | 15 8 32 | 17°49'02 | 28° 6 | 9°37 | 3°35 | 13°42 | 10°51 | 16°26 | 13° 9 | 21°42 | 18°49 | 29°10 | 28°18 | 29°32 | n.a. | M12 |
| T 13 | 15 12 28 | 18°46'16 | 11♌50 | 11°44 | 4°48 | 14°20 | 10°45 | 16°25 | 13°12 | 21°44 | 18°50 | 29° 9 | 28°14 | 29°39 | n.a. | T 13 |
| W14 | 15 16 25 | 19°43'29 | 25° 9 | 13°53 | 6° 1 | 14°58 | 10°38 | 16°24 | 13°15 | 21°46 | 18°51 | 29°D 9 | 28°11 | 29°45 | n.a. | W14 |
| T 15 | 15 20 21 | 20°40'40 | 8♍ 5 | 16° 3 | 7°15 | 15°36 | 10°31 | 16°23 | 13°18 | 21°48 | 18°53 | 29°10 | 28° 8 | 29°52 | n.a. | T 15 |
| F 16 | 15 24 18 | 21°37'51 | 20°42 | 18°13 | 8°28 | 16°14 | 10°24 | 16°22 | 13°21 | 21°51 | 18°54 | 29°11 | 28° 5 | 29°59 | n.a. | F 16 |
| S 17 | 15 28 15 | 22°35'01 | 3♎ 3 | 20°24 | 9°41 | 16°53 | 10°18 | 16°22 | 13°24 | 21°53 | 18°56 | 29°13 | 28° 2 | 0♐ 5 | n.a. | S 17 |
| S 18 | 15 32 11 | 23°32'11 | 15°11 | 22°36 | 10°55 | 17°31 | 10°11 | 16°21 | 13°27 | 21°55 | 18°57 | 29°14 | 27°58 | 0°12 | n.a. | S 18 |
| M19 | 15 36 8 | 24°29'19 | 27°10 | 24°48 | 12° 8 | 18° 9 | 10° 4 | 16°21 | 13°29 | 21°57 | 18°58 | 29°R15 | 27°55 | 0°19 | n.a. | M19 |
| T 20 | 15 40 4 | 25°26'27 | 9♏ 4 | 26°59 | 13°21 | 18°47 | 9°56 | 16°21 | 13°32 | 22° 0 | 19° 0 | 29°15 | 27°52 | 0°25 | n.a. | T 20 |
| W21 | 15 44 1 | 26°23'35 | 20°54 | 29°10 | 14°34 | 19°25 | 9°49 | 16°20 | 13°35 | 22° 2 | 19° 1 | 29°13 | 27°49 | 0°32 | n.a. | W21 |
| T 22 | 15 47 57 | 27°20'42 | 2♐43 | 1♊20 | 15°48 | 20° 3 | 9°42 | 16°D20 | 13°38 | 22° 4 | 19° 3 | 29°10 | 27°46 | 0°39 | n.a. | T 22 |
| F 23 | 15 51 54 | 28°17'49 | 14°33 | 3°29 | 17° 1 | 20°41 | 9°35 | 16°20 | 13°40 | 22° 6 | 19° 4 | 29° 6 | 27°43 | 0°45 | n.a. | F 23 |
| S 24 | 15 55 50 | 29°14'56 | 26°26 | 5°37 | 18°15 | 21°19 | 9°27 | 16°20 | 13°43 | 22° 8 | 19° 5 | 29° 1 | 27°39 | 0°52 | n.a. | S 24 |
| S 25 | 15 59 47 | 0♊12'03 | 8♋25 | 7°44 | 19°28 | 21°57 | 9°20 | 16°21 | 13°46 | 22°11 | 19° 7 | 28°56 | 27°36 | 0°59 | n.a. | S 25 |
| M26 | 16 3 44 | 1° 9'09 | 20°31 | 9°49 | 20°41 | 22°36 | 9°12 | 16°21 | 13°48 | 22°13 | 19° 8 | 28°50 | 27°33 | 1° 5 | n.a. | M26 |
| T 27 | 16 7 40 | 2° 6'16 | 2♒47 | 11°52 | 21°55 | 23°14 | 9° 5 | 16°21 | 13°51 | 22°15 | 19° 9 | 28°46 | 27°30 | 1°12 | n.a. | T 27 |
| W28 | 16 11 37 | 3° 3'22 | 15°17 | 13°54 | 23° 8 | 23°52 | 8°57 | 16°22 | 13°53 | 22°17 | 19°11 | 28°43 | 27°27 | 1°19 | n.a. | W28 |
| T 29 | 16 15 33 | 4° 0'29 | 28° 3 | 15°54 | 24°22 | 24°30 | 8°49 | 16°22 | 13°56 | 22°20 | 19°12 | 28°42 | 27°24 | 1°25 | n.a. | T 29 |
| F 30 | 16 19 30 | 4°57'35 | 11♓ 9 | 17°52 | 25°35 | 25° 8 | 8°42 | 16°23 | 13°58 | 22°22 | 19°14 | 28°D42 | 27°20 | 1°32 | n.a. | F 30 |
| S 31 | 16 23 26 | 5♊54'42 | 24♓38 | 19♊48 | 26♉49 | 25♊46 | 8♐34 | 16♍24 | 14♈ 1 | 22♉24 | 19♉15 | 28♈43 | 27♈17 | 1♐39 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 14n 6 | 20s 1 | 4s59 | 5n20 | 2s 8 | 6n44 | 1s20 | 22n37 | 0n58 | 22s 4 | 0n24 | 7n45 | 2n40 | 4n29 | 0s35 | 16n45 | 1s36 | 8n22 | 9s32 | 11n20 | 11n12 | 22s28 | | | n.a. |
| F 2 | 14 25 | 14 57 | 4 26 | 6 7 | 2 0 | 7 13 | 1 18 | 22 44 | 0 59 | 22 3 | 0 24 | 7 46 | 2 40 | 4 31 | 0 35 | 16 45 | 1 36 | 8 23 | 9 32 | 11 20 | 11 11 | 22 31 | | | n.a. |
| S 3 | 14 44 | 9 0 | 3 38 | 6 56 | 1 51 | 7 42 | 1 17 | 22 51 | 0 59 | 22 3 | 0 24 | 7 46 | 2 40 | 4 32 | 0 35 | 16 46 | 1 36 | 8 23 | 9 32 | 11 20 | 11 9 | 22 33 | | | n.a. |
| S 4 | 15 2 | 2 26 | 2 36 | 7 44 | 1 42 | 8 11 | 1 15 | 22 57 | 0 59 | 22 2 | 0 24 | 7 47 | 2 39 | 4 33 | 0 35 | 16 46 | 1 36 | 8 23 | 9 32 | 11 21 | 11 8 | 22 35 | | | n.a. |
| M 5 | 15 20 | 4n27 | 1 22 | 8 34 | 1 33 | 8 39 | 1 14 | 23 4 | 0 59 | 22 2 | 0 24 | 7 47 | 2 39 | 4 34 | 0 35 | 16 47 | 1 36 | 8 24 | 9 32 | 11 21 | 11 7 | 22 38 | | | n.a. |
| T 6 | 15 38 | 11 17 | 0 1 | 9 25 | 1 23 | 9 7 | 1 12 | 23 10 | 1 0 | 22 1 | 0 24 | 7 48 | 2 39 | 4 36 | 0 35 | 16 48 | 1 36 | 8 24 | 9 32 | 11 21 | 11 6 | 22 40 | | | n.a. |
| W 7 | 15 56 | 17 35 | 1n22 | 10 15 | 1 13 | 9 36 | 1 11 | 23 16 | 1 0 | 22 0 | 0 24 | 7 48 | 2 39 | 4 37 | 0 35 | 16 48 | 1 36 | 8 25 | 9 32 | 11 21 | 11 5 | 22 42 | | | n.a. |
| T 8 | 16 13 | 22 50 | 2 39 | 11 7 | 1 3 | 10 3 | 1 9 | 23 21 | 1 0 | 21 59 | 0 24 | 7 49 | 2 39 | 4 38 | 0 35 | 16 49 | 1 36 | 8 25 | 9 32 | 11 21 | 11 4 | 22 44 | | | n.a. |
| F 9 | 16 30 | 26 31 | 3 45 | 11 58 | 0 53 | 10 31 | 1 7 | 23 27 | 1 0 | 21 59 | 0 24 | 7 49 | 2 38 | 4 39 | 0 35 | 16 49 | 1 36 | 8 26 | 9 32 | 11 20 | 11 3 | 22 46 | | | n.a. |
| S 10 | 16 47 | 28 16 | 4 34 | 12 50 | 0 42 | 10 59 | 1 6 | 23 32 | 1 1 | 21 58 | 0 23 | 7 49 | 2 38 | 4 40 | 0 35 | 16 50 | 1 36 | 8 26 | 9 32 | 11 19 | 11 1 | 22 49 | | | n.a. |
| S 11 | 17 4 | 28 1 | 5 5 | 13 41 | 0 31 | 11 26 | 1 4 | 23 37 | 1 1 | 21 57 | 0 23 | 7 50 | 2 38 | 4 42 | 0 35 | 16 51 | 1 36 | 8 26 | 9 31 | 11 19 | 11 0 | 22 51 | | | n.a. |
| M12 | 17 20 | 25 55 | 5 16 | 14 32 | 0 20 | 11 53 | 1 2 | 23 43 | 1 1 | 21 56 | 0 23 | 7 50 | 2 38 | 4 43 | 0 35 | 16 51 | 1 36 | 8 27 | 9 31 | 11 18 | 10 59 | 22 53 | | | n.a. |
| T 13 | 17 36 | 22 21 | 5 8 | 15 22 | 0 10 | 12 19 | 1 0 | 23 47 | 1 1 | 21 56 | 0 23 | 7 50 | 2 38 | 4 44 | 0 35 | 16 52 | 1 36 | 8 27 | 9 31 | 11 18 | 10 58 | 22 55 | | | n.a. |
| W14 | 17 52 | 17 44 | 4 44 | 16 12 | 0n 1 | 12 46 | 0 58 | 23 52 | 1 2 | 21 55 | 0 23 | 7 50 | 2 37 | 4 45 | 0 35 | 16 52 | 1 36 | 8 28 | 9 31 | 11 18 | 10 57 | 22 58 | | | n.a. |
| T 15 | 18 7 | 12 25 | 4 6 | 17 1 | 0 12 | 13 12 | 0 56 | 23 57 | 1 2 | 21 54 | 0 23 | 7 50 | 2 37 | 4 46 | 0 35 | 16 53 | 1 36 | 8 28 | 9 31 | 11 18 | 10 56 | 23 0 | | | n.a. |
| F 16 | 18 22 | 6 44 | 3 17 | 17 48 | 0 22 | 13 38 | 0 54 | 24 1 | 1 2 | 21 53 | 0 23 | 7 50 | 2 37 | 4 47 | 0 35 | 16 54 | 1 36 | 8 28 | 9 31 | 11 19 | 10 55 | 23 2 | | | n.a. |
| S 17 | 18 37 | 0 54 | 2 19 | 18 34 | 0 33 | 14 3 | 0 52 | 24 5 | 1 2 | 21 52 | 0 23 | 7 50 | 2 37 | 4 48 | 0 35 | 16 54 | 1 36 | 8 29 | 9 31 | 11 19 | 10 53 | 23 4 | | | n.a. |
| S 18 | 18 52 | 4s52 | 1 17 | 19 19 | 0 42 | 14 28 | 0 50 | 24 9 | 1 2 | 21 51 | 0 23 | 7 50 | 2 36 | 4 49 | 0 35 | 16 55 | 1 36 | 8 29 | 9 31 | 11 20 | 10 52 | 23 6 | | | n.a. |
| M19 | 19 6 | 10 24 | 0 11 | 20 1 | 0 52 | 14 53 | 0 48 | 24 13 | 1 3 | 21 50 | 0 22 | 7 50 | 2 36 | 4 51 | 0 35 | 16 55 | 1 36 | 8 30 | 9 31 | 11 20 | 10 51 | 23 8 | | | n.a. |
| T 20 | 19 20 | 15 32 | 0s54 | 20 41 | 1 1 | 15 18 | 0 46 | 24 16 | 1 3 | 21 49 | 0 22 | 7 50 | 2 36 | 4 52 | 0 35 | 16 56 | 1 36 | 8 30 | 9 31 | 11 20 | 10 50 | 23 11 | | | n.a. |
| W21 | 19 34 | 20 3 | 1 56 | 21 19 | 1 9 | 15 42 | 0 44 | 24 20 | 1 3 | 21 48 | 0 22 | 7 50 | 2 36 | 4 53 | 0 35 | 16 57 | 1 35 | 8 30 | 9 31 | 11 19 | 10 49 | 23 13 | | | n.a. |
| T 22 | 19 47 | 23 46 | 2 53 | 21 55 | 1 17 | 16 5 | 0 42 | 24 23 | 1 3 | 21 47 | 0 22 | 7 50 | 2 35 | 4 54 | 0 35 | 16 57 | 1 35 | 8 31 | 9 31 | 11 18 | 10 48 | 23 15 | | | n.a. |
| F 23 | 20 0 | 26 30 | 3 43 | 22 28 | 1 24 | 16 29 | 0 39 | 24 26 | 1 3 | 21 46 | 0 22 | 7 50 | 2 35 | 4 55 | 0 35 | 16 58 | 1 35 | 8 31 | 9 31 | 11 16 | 10 47 | 23 17 | | | n.a. |
| S 24 | 20 13 | 28 3 | 4 23 | 22 58 | 1 31 | 16 52 | 0 37 | 24 29 | 1 4 | 21 45 | 0 22 | 7 49 | 2 35 | 4 56 | 0 35 | 16 58 | 1 35 | 8 32 | 9 31 | 11 15 | 10 45 | 23 19 | | | n.a. |
| S 25 | 20 25 | 28 18 | 4 52 | 23 26 | 1 37 | 17 14 | 0 35 | 24 31 | 1 4 | 21 44 | 0 22 | 7 49 | 2 35 | 4 57 | 0 35 | 16 59 | 1 35 | 8 32 | 9 31 | 11 13 | 10 44 | 23 21 | | | n.a. |
| M26 | 20 37 | 27 12 | 5 9 | 23 51 | 1 42 | 17 36 | 0 33 | 24 34 | 1 4 | 21 43 | 0 21 | 7 49 | 2 35 | 4 58 | 0 35 | 16 59 | 1 35 | 8 32 | 9 31 | 11 11 | 10 43 | 23 24 | | | n.a. |
| T 27 | 20 49 | 24 48 | 5 11 | 24 13 | 1 46 | 17 58 | 0 30 | 24 36 | 1 4 | 21 42 | 0 21 | 7 48 | 2 34 | 4 59 | 0 35 | 17 0 | 1 35 | 8 33 | 9 31 | 11 9 | 10 42 | 23 26 | | | n.a. |
| W28 | 21 0 | 21 11 | 4 59 | 24 33 | 1 50 | 18 19 | 0 28 | 24 38 | 1 4 | 21 41 | 0 21 | 7 48 | 2 34 | 5 0 | 0 35 | 17 1 | 1 35 | 8 33 | 9 31 | 11 8 | 10 41 | 23 28 | | | n.a. |
| T 29 | 21 11 | 16 32 | 4 32 | 24 50 | 1 53 | 18 39 | 0 26 | 24 40 | 1 5 | 21 40 | 0 21 | 7 48 | 2 34 | 5 1 | 0 35 | 17 1 | 1 36 | 8 33 | 9 31 | 11 8 | 10 40 | 23 30 | | | n.a. |
| F 30 | 21 22 | 11 0 | 3 50 | 25 4 | 1 56 | 19 0 | 0 23 | 24 42 | 1 5 | 21 39 | 0 21 | 7 47 | 2 34 | 5 2 | 0 35 | 17 2 | 1 36 | 8 34 | 9 31 | 11 8 | 10 38 | 23 32 | | | n.a. |
| S 31 | 21n32 | 4s50 | 2s55 | 25n16 | 1n57 | 19n19 | 0s21 | 24n43 | 1n 5 | 21s38 | 0n21 | 7n46 | 2n33 | 5n 3 | 0s35 | 17n 2 | 1s36 | 8n34 | 9s31 | 11n 8 | 10n37 | 23s34 | | | n.a. |

Julian Day Number = 1691958.5, Delta T = 03h10m01s
Ecliptic obliquity = 23°42'26, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°10'42, Lahiri = - 5°03'41 Julian Calendar 1 May 81 BCE == Greg. Calendar 29 Apr. 081 BCE

The year -80 astronomical counting style corresponds to year 081 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 81 BCE
# geocentric

## JUNE 81 BCE (-80) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 27 23 | 6♊51'49 | 8♈32 | 21♊42 | 28♉ 2 | 26♊24 | 8°R26 | 16♍25 | 14♈ 3 | 22♉26 | 19♉16 | 28♈44 | 27♈14 | 1♐45 | n.a. | S 1 |
| M 2 | 16 31 19 | 7°48'57 | 22°52 | 23°34 | 29°16 | 27° 2 | 8♐19 | 16°26 | 14° 5 | 22°28 | 19°18 | 28°R45 | 27°11 | 1°52 | n.a. | M 2 |
| T 3 | 16 35 16 | 8°46'04 | 7♉34 | 25°24 | 0♊29 | 27°40 | 8°11 | 16°27 | 14° 8 | 22°30 | 19°19 | 28°45 | 27° 8 | 1°59 | n.a. | T 3 |
| W 4 | 16 39 13 | 9°43'12 | 22°36 | 27°12 | 1°43 | 28°18 | 8° 3 | 16°28 | 14°10 | 22°33 | 19°20 | 28°43 | 27° 4 | 2° 6 | n.a. | W 4 |
| T 5 | 16 43 9 | 10°40'20 | 7♊48 | 28°58 | 2°56 | 28°56 | 7°56 | 16°29 | 14°12 | 22°35 | 19°22 | 28°40 | 27° 1 | 2°12 | n.a. | T 5 |
| F 6 | 16 47 6 | 11°37'29 | 23° 0 | 0♋42 | 4°10 | 29°34 | 7°48 | 16°31 | 14°15 | 22°37 | 19°23 | 28°34 | 26°58 | 2°19 | n.a. | F 6 |
| S 7 | 16 51 2 | 12°34'37 | 8♋ 4 | 2°24 | 5°23 | 0♋12 | 7°40 | 16°32 | 14°17 | 22°39 | 19°24 | 28°28 | 26°55 | 2°26 | n.a. | S 7 |
| S 8 | 16 54 59 | 13°31'45 | 22°49 | 4° 4 | 6°37 | 0°51 | 7°33 | 16°34 | 14°19 | 22°41 | 19°25 | 28°21 | 26°52 | 2°32 | n.a. | S 8 |
| M 9 | 16 58 55 | 14°28'54 | 7♌ 9 | 5°41 | 7°51 | 1°29 | 7°25 | 16°35 | 14°21 | 22°43 | 19°27 | 28°16 | 26°49 | 2°39 | n.a. | M 9 |
| T 10 | 17 2 52 | 15°26'02 | 21° 1 | 7°17 | 9° 4 | 2° 7 | 7°18 | 16°37 | 14°23 | 22°45 | 19°28 | 28°11 | 26°45 | 2°46 | n.a. | T 10 |
| W11 | 17 6 49 | 16°23'11 | 4♍24 | 8°50 | 10°18 | 2°45 | 7°10 | 16°39 | 14°25 | 22°48 | 19°29 | 28° 9 | 26°42 | 2°52 | n.a. | W11 |
| T 12 | 17 10 45 | 17°20'19 | 17°21 | 10°22 | 11°32 | 3°23 | 7° 3 | 16°41 | 14°27 | 22°50 | 19°31 | 28°D 8 | 26°39 | 2°59 | n.a. | T 12 |
| F 13 | 17 14 42 | 18°17'27 | 29°55 | 11°51 | 12°45 | 4° 1 | 6°55 | 16°43 | 14°29 | 22°52 | 19°32 | 28° 9 | 26°36 | 3° 6 | n.a. | F 13 |
| S 14 | 17 18 38 | 19°14'36 | 12♎10 | 13°18 | 13°59 | 4°39 | 6°48 | 16°45 | 14°31 | 22°54 | 19°33 | 28°10 | 26°33 | 3°12 | n.a. | S 14 |
| S 15 | 17 22 35 | 20°11'44 | 24°13 | 14°43 | 15°13 | 5°17 | 6°40 | 16°47 | 14°33 | 22°56 | 19°34 | 28°R11 | 26°30 | 3°19 | n.a. | S 15 |
| M16 | 17 26 31 | 21° 8'53 | 6♏ 7 | 16° 6 | 16°26 | 5°55 | 6°33 | 16°50 | 14°35 | 22°58 | 19°35 | 28°10 | 26°26 | 3°26 | n.a. | M16 |
| T 17 | 17 30 28 | 22° 6'03 | 17°56 | 17°27 | 17°40 | 6°33 | 6°26 | 16°52 | 14°36 | 23° 0 | 19°37 | 28° 8 | 26°23 | 3°32 | n.a. | T 17 |
| W18 | 17 34 24 | 23° 3'12 | 29°44 | 18°45 | 18°54 | 7°11 | 6°19 | 16°55 | 14°38 | 23° 2 | 19°38 | 28° 4 | 26°20 | 3°39 | n.a. | W18 |
| T 19 | 17 38 21 | 24° 0'22 | 11♐34 | 20° 1 | 20° 8 | 7°49 | 6°12 | 16°57 | 14°40 | 23° 4 | 19°39 | 27°57 | 26°17 | 3°46 | n.a. | T 19 |
| F 20 | 17 42 18 | 24°57'33 | 23°29 | 21°15 | 21°21 | 8°27 | 6° 5 | 17° 0 | 14°41 | 23° 6 | 19°40 | 27°49 | 26°14 | 3°52 | n.a. | F 20 |
| S 21 | 17 46 14 | 25°54'44 | 5♑29 | 22°26 | 22°35 | 9° 5 | 5°58 | 17° 3 | 14°43 | 23° 8 | 19°41 | 27°38 | 26°10 | 3°59 | n.a. | S 21 |
| S 22 | 17 50 11 | 26°51'56 | 17°36 | 23°35 | 23°49 | 9°43 | 5°51 | 17° 6 | 14°45 | 23°10 | 19°43 | 27°28 | 26° 7 | 4° 6 | n.a. | S 22 |
| M23 | 17 54 7 | 27°49'09 | 29°52 | 24°41 | 25° 3 | 10°21 | 5°45 | 17° 9 | 14°46 | 23°12 | 19°44 | 27°17 | 26° 4 | 4°12 | n.a. | M23 |
| T 24 | 17 58 4 | 28°46'23 | 12♒18 | 25°44 | 26°17 | 10°59 | 5°38 | 17°12 | 14°48 | 23°14 | 19°45 | 27° 8 | 26° 1 | 4°19 | n.a. | T 24 |
| W25 | 18 2 0 | 29°43'37 | 24°55 | 26°45 | 27°31 | 11°37 | 5°32 | 17°15 | 14°49 | 23°15 | 19°46 | 27° 1 | 25°58 | 4°26 | n.a. | W25 |
| T 26 | 18 5 57 | 0♋40'52 | 7♓45 | 27°42 | 28°45 | 12°15 | 5°26 | 17°18 | 14°50 | 23°17 | 19°47 | 26°56 | 25°55 | 4°32 | n.a. | T 26 |
| F 27 | 18 9 53 | 1°38'09 | 20°52 | 28°37 | 29°58 | 12°53 | 5°19 | 17°21 | 14°52 | 23°19 | 19°48 | 26°54 | 25°51 | 4°39 | n.a. | F 27 |
| S 28 | 18 13 50 | 2°35'26 | 4♈16 | 29°29 | 1♋12 | 13°31 | 5°13 | 17°25 | 14°53 | 23°21 | 19°49 | 26°D54 | 25°48 | 4°46 | n.a. | S 28 |
| S 29 | 18 17 47 | 3°32'45 | 18° 1 | 0♌17 | 2°26 | 14°10 | 5° 7 | 17°28 | 14°54 | 23°23 | 19°50 | 26°54 | 25°45 | 4°52 | n.a. | S 29 |
| M30 | 18 21 43 | 4♋30'05 | 2♉ 8 | 1♌ 2 | 3♋40 | 14♋48 | 5♐ 1 | 17♍32 | 14♈55 | 23♉25 | 19♉51 | 26°R54 | 25♈42 | 4♐59 | n.a. | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| S 1 | 21n42 | 1n46 | 1s48 | 25n25 | 1n58 | 19n38 | 0s19 | 24n44 | 1n 5 | 21s37 | 0n21 | 7n46 | 2n33 | 5n 4 | 0s35 | 17n 3 | 1s36 | 8n34 | 9s31 | 11n 9 | 10n36 | 23s36 | | n.a. | S 1 |
| M 2 | 21 51 | 8 30 | 0 32 | 25 32 | 1 59 | 19 57 | 0 16 | 24 46 | 1 5 | 21 36 | 0 20 | 7 45 | 2 33 | 5 4 | 0 35 | 17 3 | 1 36 | 8 35 | 9 31 | 11 9 | 10 35 | 23 38 | | n.a. | M 2 |
| T 3 | 22 1 | 14 57 | 0n48 | 25 36 | 1 58 | 20 15 | 0 14 | 24 47 | 1 5 | 21 35 | 0 20 | 7 45 | 2 33 | 5 5 | 0 35 | 17 4 | 1 36 | 8 35 | 9 31 | 11 9 | 10 34 | 23 40 | | n.a. | T 3 |
| W 4 | 22 9 | 20 39 | 2 6 | 25 38 | 1 58 | 20 33 | 0 11 | 24 47 | 1 6 | 21 34 | 0 20 | 7 44 | 2 32 | 5 6 | 0 35 | 17 4 | 1 36 | 8 35 | 9 31 | 11 8 | 10 33 | 23 42 | | n.a. | W 4 |
| T 5 | 22 18 | 25 4 | 3 16 | 25 38 | 1 56 | 20 50 | 0 9 | 24 48 | 1 6 | 21 33 | 0 20 | 7 43 | 2 32 | 5 7 | 0 35 | 17 5 | 1 36 | 8 36 | 9 31 | 11 7 | 10 32 | 23 45 | | n.a. | T 5 |
| F 6 | 22 26 | 27 42 | 4 12 | 25 36 | 1 54 | 21 6 | 0 7 | 24 48 | 1 6 | 21 32 | 0 20 | 7 43 | 2 32 | 5 8 | 0 35 | 17 5 | 1 36 | 8 36 | 9 31 | 11 5 | 10 30 | 23 47 | | n.a. | F 6 |
| S 7 | 22 33 | 28 16 | 4 50 | 25 32 | 1 51 | 21 22 | 0 4 | 24 48 | 1 6 | 21 31 | 0 20 | 7 42 | 2 32 | 5 9 | 0 35 | 17 6 | 1 36 | 8 36 | 9 31 | 11 3 | 10 29 | 23 49 | | n.a. | S 7 |
| S 8 | 22 41 | 26 48 | 5 7 | 25 26 | 1 47 | 21 37 | 0 2 | 24 48 | 1 6 | 21 29 | 0 20 | 7 41 | 2 31 | 5 10 | 0 36 | 17 7 | 1 36 | 8 37 | 9 31 | 11 1 | 10 28 | 23 51 | | n.a. | S 8 |
| M 9 | 22 48 | 23 36 | 5 5 | 25 18 | 1 43 | 21 52 | 0n 0 | 24 48 | 1 6 | 21 28 | 0 19 | 7 40 | 2 31 | 5 10 | 0 36 | 17 7 | 1 36 | 8 37 | 9 31 | 10 58 | 10 27 | 23 53 | | n.a. | M 9 |
| T 10 | 22 54 | 19 8 | 4 45 | 25 9 | 1 39 | 22 6 | 0 3 | 24 48 | 1 6 | 21 27 | 0 19 | 7 39 | 2 31 | 5 11 | 0 36 | 17 8 | 1 36 | 8 37 | 9 31 | 10 57 | 10 26 | 23 55 | | n.a. | T 10 |
| W11 | 23 0 | 13 52 | 4 9 | 24 58 | 1 34 | 22 20 | 0 5 | 24 47 | 1 7 | 21 26 | 0 19 | 7 38 | 2 31 | 5 12 | 0 36 | 17 8 | 1 36 | 8 37 | 9 32 | 10 56 | 10 25 | 23 57 | | n.a. | W11 |
| T 12 | 23 6 | 8 9 | 3 22 | 24 46 | 1 28 | 22 33 | 0 8 | 24 46 | 1 7 | 21 25 | 0 19 | 7 37 | 2 31 | 5 13 | 0 36 | 17 9 | 1 36 | 8 38 | 9 32 | 10 56 | 10 23 | 23 59 | | n.a. | T 12 |
| F 13 | 23 11 | 2 16 | 2 26 | 24 32 | 1 22 | 22 45 | 0 10 | 24 46 | 1 7 | 21 24 | 0 19 | 7 36 | 2 30 | 5 13 | 0 36 | 17 9 | 1 36 | 8 38 | 9 32 | 10 56 | 10 22 | 24 1 | | n.a. | F 13 |
| S 14 | 23 16 | 3s33 | 1 25 | 24 17 | 1 15 | 22 56 | 0 12 | 24 44 | 1 7 | 21 23 | 0 19 | 7 35 | 2 30 | 5 14 | 0 36 | 17 10 | 1 36 | 8 38 | 9 32 | 10 56 | 10 21 | 24 3 | | n.a. | S 14 |
| S 15 | 23 20 | 9 10 | 0 21 | 24 1 | 1 8 | 23 7 | 0 15 | 24 43 | 1 7 | 21 22 | 0 18 | 7 34 | 2 30 | 5 15 | 0 36 | 17 10 | 1 36 | 8 38 | 9 32 | 10 57 | 10 20 | 24 5 | | n.a. | S 15 |
| M16 | 23 24 | 14 23 | 0s43 | 23 43 | 1 0 | 23 17 | 0 17 | 24 42 | 1 7 | 21 21 | 0 18 | 7 33 | 2 30 | 5 16 | 0 36 | 17 11 | 1 36 | 8 39 | 9 32 | 10 57 | 10 19 | 24 7 | | n.a. | M16 |
| T 17 | 23 28 | 19 2 | 1 44 | 23 25 | 0 52 | 23 27 | 0 19 | 24 40 | 1 7 | 21 20 | 0 18 | 7 32 | 2 29 | 5 16 | 0 36 | 17 11 | 1 36 | 8 39 | 9 32 | 10 56 | 10 18 | 24 9 | | n.a. | T 17 |
| W18 | 23 31 | 22 56 | 2 41 | 23 6 | 0 44 | 23 36 | 0 22 | 24 38 | 1 7 | 21 19 | 0 18 | 7 30 | 2 29 | 5 17 | 0 36 | 17 12 | 1 36 | 8 39 | 9 32 | 10 54 | 10 16 | 24 11 | | n.a. | W18 |
| T 19 | 23 34 | 25 54 | 3 31 | 22 46 | 0 35 | 23 44 | 0 24 | 24 36 | 1 8 | 21 18 | 0 18 | 7 29 | 2 29 | 5 18 | 0 36 | 17 12 | 1 36 | 8 39 | 9 32 | 10 52 | 10 15 | 24 13 | | n.a. | T 19 |
| F 20 | 23 37 | 27 44 | 4 12 | 22 26 | 0 26 | 23 51 | 0 26 | 24 34 | 1 8 | 21 17 | 0 18 | 7 28 | 2 29 | 5 18 | 0 36 | 17 13 | 1 36 | 8 40 | 9 32 | 10 49 | 10 14 | 24 15 | | n.a. | F 20 |
| S 21 | 23 39 | 28 17 | 4 42 | 22 5 | 0 16 | 23 58 | 0 28 | 24 31 | 1 8 | 21 15 | 0 17 | 7 27 | 2 28 | 5 19 | 0 36 | 17 13 | 1 36 | 8 40 | 9 32 | 10 45 | 10 13 | 24 17 | | n.a. | S 21 |
| S 22 | 23 40 | 27 29 | 4 59 | 21 43 | 0 6 | 24 4 | 0 31 | 24 28 | 1 8 | 21 14 | 0 17 | 7 25 | 2 28 | 5 19 | 0 36 | 17 14 | 1 36 | 8 40 | 9 32 | 10 41 | 10 12 | 24 19 | | n.a. | S 22 |
| M23 | 23 41 | 25 21 | 5 3 | 21 21 | 0s 4 | 24 10 | 0 33 | 24 26 | 1 8 | 21 13 | 0 17 | 7 24 | 2 28 | 5 20 | 0 36 | 17 14 | 1 36 | 8 40 | 9 32 | 10 37 | 10 11 | 24 21 | | n.a. | M23 |
| T 24 | 23 42 | 21 59 | 4 53 | 20 59 | 0 15 | 24 14 | 0 35 | 24 23 | 1 8 | 21 12 | 0 17 | 7 23 | 2 28 | 5 20 | 0 36 | 17 14 | 1 36 | 8 41 | 9 32 | 10 34 | 10 9 | 24 23 | | n.a. | T 24 |
| W25 | 23 42 | 17 35 | 4 29 | 20 37 | 0 26 | 24 18 | 0 37 | 24 19 | 1 8 | 21 12 | 0 17 | 7 21 | 2 28 | 5 21 | 0 36 | 17 15 | 1 36 | 8 41 | 9 33 | 10 31 | 10 8 | 24 25 | | n.a. | W25 |
| T 26 | 23 42 | 12 19 | 3 51 | 20 14 | 0 38 | 24 21 | 0 39 | 24 16 | 1 8 | 21 11 | 0 17 | 7 20 | 2 27 | 5 22 | 0 36 | 17 15 | 1 36 | 8 41 | 9 33 | 10 30 | 10 7 | 24 27 | | n.a. | T 26 |
| F 27 | 23 42 | 6 24 | 3 0 | 19 52 | 0 49 | 24 24 | 0 41 | 24 12 | 1 8 | 21 10 | 0 16 | 7 18 | 2 27 | 5 22 | 0 36 | 17 16 | 1 36 | 8 41 | 9 33 | 10 29 | 10 6 | 24 29 | | n.a. | F 27 |
| S 28 | 23 41 | 0 5 | 1 57 | 19 29 | 1 1 | 24 25 | 0 43 | 24 9 | 1 8 | 21 9 | 0 16 | 7 17 | 2 27 | 5 23 | 0 36 | 17 16 | 1 36 | 8 41 | 9 33 | 10 29 | 10 5 | 24 31 | | n.a. | S 28 |
| S 29 | 23 40 | 6n25 | 0 47 | 19 7 | 1 13 | 24 26 | 0 45 | 24 5 | 1 9 | 21 8 | 0 16 | 7 15 | 2 27 | 5 23 | 0 36 | 17 17 | 1 36 | 8 42 | 9 33 | 10 29 | 10 4 | 24 33 | | n.a. | S 29 |
| M30 | 23n38 | 12n47 | 0n28 | 18n46 | 1s26 | 24n27 | 0n47 | 24n 1 | 1n 9 | 21s 7 | 0n16 | 7n13 | 2n26 | 5n23 | 0s36 | 17n17 | 1s36 | 8n42 | 9s33 | 10n29 | 10n 2 | 24s34 | | n.a. | M30 |

Julian Day Number = 1691989.5, Delta T = 03h10m00s
Ecliptic obliquity = 23°42'25, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°10'38, Lahiri = - 5°03'37 Julian Calendar 1 June 81 BCE == Greg. Calendar 30 May 081 BCE

The year -80 astronomical counting style corresponds to year 081 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 81 BCE
# geocentric

## JULY 81 BCE (-80) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 25 40 | 5♋27'26 | 16♉37 | 1♌43 | 4♋54 | 15♋26 | 4°R56 | 17♍35 | 14♈57 | 23♉26 | 19♉52 | 26°R53 | 25♈39 | 5♐ 6 | n.a. | T 1 |
| W 2 | 18 29 36 | 6°24'49 | 1♊23 | 2°21 | 6° 8 | 16° 4 | 4♐50 | 17°39 | 14°58 | 23°28 | 19°53 | 26♈49 | 25°36 | 5°12 | n.a. | W 2 |
| T 3 | 18 33 33 | 7°22'12 | 16°23 | 2°55 | 7°22 | 16°42 | 4°45 | 17°43 | 14°59 | 23°30 | 19°54 | 26°43 | 25°32 | 5°19 | n.a. | T 3 |
| F 4 | 18 37 29 | 8°19'37 | 1♋27 | 3°24 | 8°36 | 17°20 | 4°39 | 17°47 | 15° 0 | 23°32 | 19°55 | 26°34 | 25°29 | 5°26 | n.a. | F 4 |
| S 5 | 18 41 26 | 9°17'03 | 16°27 | 3°49 | 9°51 | 17°58 | 4°34 | 17°51 | 15° 1 | 23°33 | 19°56 | 26°24 | 25°26 | 5°32 | n.a. | S 5 |
| S 6 | 18 45 23 | 10°14'30 | 1♌12 | 4°10 | 11° 5 | 18°36 | 4°29 | 17°55 | 15° 2 | 23°35 | 19°57 | 26°14 | 25°23 | 5°39 | n.a. | S 6 |
| M 7 | 18 49 19 | 11°11'58 | 15°35 | 4°26 | 12°19 | 19°14 | 4°24 | 17°59 | 15° 2 | 23°37 | 19°58 | 26° 4 | 25°20 | 5°46 | n.a. | M 7 |
| T 8 | 18 53 16 | 12° 9'27 | 29°30 | 4°37 | 13°33 | 19°52 | 4°20 | 18° 3 | 15° 3 | 23°38 | 19°59 | 25°56 | 25°16 | 5°52 | n.a. | T 8 |
| W 9 | 18 57 12 | 13° 6'57 | 12♍57 | 4°44 | 14°47 | 20°31 | 4°15 | 18° 7 | 15° 4 | 23°40 | 20° 0 | 25°51 | 25°13 | 5°59 | n.a. | W 9 |
| T 10 | 19 1 9 | 14° 4'27 | 25°57 | 4°R44 | 16° 1 | 21° 9 | 4°11 | 18°12 | 15° 5 | 23°41 | 20° 1 | 25°48 | 25°10 | 6° 6 | n.a. | T 10 |
| F 11 | 19 5 5 | 15° 1'59 | 8♎32 | 4°40 | 17°15 | 21°47 | 4° 7 | 18°16 | 15° 5 | 23°43 | 20° 2 | 25°46 | 25° 7 | 6°13 | n.a. | F 11 |
| S 12 | 19 9 2 | 15°59'32 | 20°48 | 4°30 | 18°29 | 22°25 | 4° 3 | 18°21 | 15° 6 | 23°44 | 20° 3 | 25°46 | 25° 4 | 6°19 | n.a. | S 12 |
| S 13 | 19 12 58 | 16°57'05 | 2♏50 | 4°15 | 19°44 | 23° 3 | 3°59 | 18°25 | 15° 7 | 23°46 | 20° 4 | 25°46 | 25° 1 | 6°26 | n.a. | S 13 |
| M14 | 19 16 55 | 17°54'40 | 14°42 | 3°54 | 20°58 | 23°41 | 3°55 | 18°30 | 15° 7 | 23°47 | 20° 4 | 25°45 | 24°57 | 6°33 | n.a. | M14 |
| T 15 | 19 20 52 | 18°52'16 | 26°31 | 3°28 | 22°12 | 24°19 | 3°51 | 18°34 | 15° 8 | 23°49 | 20° 5 | 25°42 | 24°54 | 6°39 | n.a. | T 15 |
| W16 | 19 24 48 | 19°49'53 | 8♐20 | 2°57 | 23°26 | 24°58 | 3°48 | 18°39 | 15° 8 | 23°50 | 20° 6 | 25°36 | 24°51 | 6°46 | n.a. | W16 |
| T 17 | 19 28 45 | 20°47'31 | 20°14 | 2°21 | 24°41 | 25°36 | 3°45 | 18°44 | 15° 8 | 23°52 | 20° 7 | 25°28 | 24°48 | 6°53 | n.a. | T 17 |
| F 18 | 19 32 41 | 21°45'11 | 2♑15 | 1°40 | 25°55 | 26°14 | 3°42 | 18°49 | 15° 9 | 23°53 | 20° 8 | 25°17 | 24°45 | 6°59 | n.a. | F 18 |
| S 19 | 19 36 38 | 22°42'52 | 14°24 | 0°55 | 27° 9 | 26°52 | 3°39 | 18°54 | 15° 9 | 23°55 | 20° 8 | 25° 4 | 24°42 | 7° 6 | n.a. | S 19 |
| S 20 | 19 40 34 | 23°40'34 | 26°44 | 0° 7 | 28°23 | 27°30 | 3°37 | 18°59 | 15° 9 | 23°56 | 20° 9 | 24°50 | 24°38 | 7°13 | n.a. | S 20 |
| M21 | 19 44 31 | 24°38'18 | 9♒15 | 29♋17 | 29°38 | 28° 8 | 3°34 | 19° 4 | 15° 9 | 23°57 | 20°10 | 24°37 | 24°35 | 7°19 | n.a. | M21 |
| T 22 | 19 48 27 | 25°36'03 | 21°56 | 28°25 | 0♌52 | 28°47 | 3°32 | 19° 9 | 15° 9 | 23°58 | 20°10 | 24°26 | 24°32 | 7°26 | n.a. | T 22 |
| W23 | 19 52 24 | 26°33'50 | 4♓48 | 27°32 | 2° 6 | 29°25 | 3°30 | 19°14 | 15°10 | 24° 0 | 20°11 | 24°17 | 24°29 | 7°33 | n.a. | W23 |
| T 24 | 19 56 21 | 27°31'39 | 17°52 | 26°40 | 3°21 | 0♌ 3 | 3°28 | 19°20 | 15°R10 | 24° 1 | 20°12 | 24°10 | 24°26 | 7°39 | n.a. | T 24 |
| F 25 | 20 0 17 | 28°29'29 | 1♈ 7 | 25°49 | 4°35 | 0°41 | 3°26 | 19°25 | 15°10 | 24° 2 | 20°12 | 24° 7 | 24°22 | 7°46 | n.a. | F 25 |
| S 26 | 20 4 14 | 29°27'21 | 14°36 | 25° 0 | 5°49 | 1°20 | 3°25 | 19°31 | 15° 9 | 24° 3 | 20°13 | 24° 5 | 24°19 | 7°53 | n.a. | S 26 |
| S 27 | 20 8 10 | 0♌25'16 | 28°20 | 24°15 | 7° 4 | 1°58 | 3°23 | 19°36 | 15° 9 | 24° 4 | 20°14 | 24° 5 | 24°16 | 7°59 | n.a. | S 27 |
| M28 | 20 12 7 | 1°23'12 | 12♉18 | 23°34 | 8°18 | 2°36 | 3°22 | 19°42 | 15° 9 | 24° 5 | 20°14 | 24° 5 | 24°13 | 8° 6 | n.a. | M28 |
| T 29 | 20 16 3 | 2°21'10 | 26°32 | 22°59 | 9°32 | 3°14 | 3°21 | 19°47 | 15° 9 | 24° 7 | 20°15 | 24° 3 | 24°10 | 8°13 | n.a. | T 29 |
| W30 | 20 20 0 | 3°19'11 | 11♊ 0 | 22°31 | 10°47 | 3°53 | 3°20 | 19°53 | 15° 9 | 24° 8 | 20°15 | 24° 0 | 24° 7 | 8°19 | n.a. | W30 |
| T 31 | 20 23 56 | 4♌17'13 | 25♊39 | 22♋ 9 | 12♌ 1 | 4♌31 | 3♐20 | 19♍59 | 15♈ 8 | 24♉ 9 | 20♉16 | 23♈53 | 24♈ 3 | 8♐26 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 23n36 | 18n38 | 1n43 | 18n24 | 1s38 | 24n26 | 0n49 | 23n56 | 1n 9 | 21s 6 | 0n16 | 7n12 | 2n26 | 5n24 | 0s36 | 17n18 | 1s36 | 8n42 | 9s33 | 10n28 | 10n 1 | 24s36 | | | n.a. |
| W 2 | 23 33 | 23 29 | 2 52 | 18 3 | 1 51 | 24 25 | 0 51 | 23 52 | 1 9 | 21 5 | 0 15 | 7 10 | 2 26 | 5 24 | 0 36 | 17 18 | 1 36 | 8 42 | 9 33 | 10 27 | 10 0 | 24 38 | | | n.a. |
| T 3 | 23 30 | 26 50 | 3 51 | 17 43 | 2 4 | 24 23 | 0 53 | 23 47 | 1 9 | 21 4 | 0 15 | 7 8 | 2 26 | 5 25 | 0 36 | 17 18 | 1 36 | 8 42 | 9 33 | 10 25 | 9 59 | 24 40 | | | n.a. |
| F 4 | 23 27 | 28 15 | 4 34 | 17 24 | 2 16 | 24 20 | 0 55 | 23 42 | 1 9 | 21 4 | 0 15 | 7 7 | 2 26 | 5 25 | 0 36 | 17 19 | 1 36 | 8 42 | 9 33 | 10 22 | 9 58 | 24 42 | | | n.a. |
| S 5 | 23 23 | 27 36 | 4 57 | 17 6 | 2 29 | 24 17 | 0 57 | 23 37 | 1 9 | 21 3 | 0 15 | 7 5 | 2 25 | 5 25 | 0 36 | 17 19 | 1 36 | 8 42 | 9 34 | 10 18 | 9 57 | 24 44 | | | n.a. |
| S 6 | 23 18 | 25 0 | 5 1 | 16 48 | 2 42 | 24 13 | 0 58 | 23 32 | 1 9 | 21 2 | 0 15 | 7 3 | 2 25 | 5 26 | 0 36 | 17 20 | 1 36 | 8 43 | 9 34 | 10 14 | 9 55 | 24 46 | | | n.a. |
| M 7 | 23 14 | 20 52 | 4 45 | 16 32 | 2 55 | 24 8 | 1 0 | 23 27 | 1 9 | 21 1 | 0 15 | 7 1 | 2 25 | 5 26 | 0 36 | 17 20 | 1 36 | 8 43 | 9 34 | 10 11 | 9 54 | 24 48 | | | n.a. |
| T 8 | 23 9 | 15 42 | 4 12 | 16 18 | 3 7 | 24 2 | 1 2 | 23 21 | 1 9 | 21 1 | 0 14 | 7 0 | 2 25 | 5 26 | 0 36 | 17 20 | 1 36 | 8 43 | 9 34 | 10 8 | 9 53 | 24 50 | | | n.a. |
| W 9 | 23 3 | 9 56 | 3 26 | 16 5 | 3 19 | 23 56 | 1 3 | 23 16 | 1 9 | 21 0 | 0 14 | 6 58 | 2 25 | 5 27 | 0 36 | 17 21 | 1 36 | 8 43 | 9 34 | 10 6 | 9 52 | 24 51 | | | n.a. |
| T 10 | 22 57 | 3 56 | 2 31 | 15 53 | 3 31 | 23 49 | 1 5 | 23 10 | 1 9 | 20 59 | 0 14 | 6 56 | 2 24 | 5 27 | 0 36 | 17 21 | 1 36 | 8 43 | 9 34 | 10 5 | 9 51 | 24 53 | | | n.a. |
| F 11 | 22 51 | 2s 3 | 1 30 | 15 43 | 3 42 | 23 41 | 1 6 | 23 4 | 1 9 | 20 59 | 0 14 | 6 54 | 2 24 | 5 27 | 0 36 | 17 21 | 1 36 | 8 43 | 9 34 | 10 4 | 9 50 | 24 55 | | | n.a. |
| S 12 | 22 44 | 7 48 | 0 26 | 15 35 | 3 53 | 23 32 | 1 8 | 22 58 | 1 9 | 20 58 | 0 14 | 6 52 | 2 24 | 5 27 | 0 36 | 17 22 | 1 36 | 8 43 | 9 34 | 10 4 | 9 48 | 24 57 | | | n.a. |
| S 13 | 22 37 | 13 10 | 0s37 | 15 29 | 4 3 | 23 23 | 1 9 | 22 51 | 1 9 | 20 58 | 0 14 | 6 50 | 2 24 | 5 27 | 0 36 | 17 22 | 1 36 | 8 43 | 9 35 | 10 4 | 9 47 | 24 59 | | | n.a. |
| M14 | 22 30 | 18 0 | 1 39 | 15 25 | 4 12 | 23 13 | 1 11 | 22 45 | 1 9 | 20 57 | 0 13 | 6 48 | 2 24 | 5 28 | 0 36 | 17 22 | 1 36 | 8 43 | 9 35 | 10 4 | 9 46 | 25 1 | | | n.a. |
| T 15 | 22 22 | 22 6 | 2 35 | 15 23 | 4 19 | 23 2 | 1 12 | 22 38 | 1 9 | 20 57 | 0 13 | 6 46 | 2 24 | 5 28 | 0 36 | 17 23 | 1 37 | 8 44 | 9 35 | 10 2 | 9 45 | 25 3 | | | n.a. |
| W16 | 22 13 | 25 19 | 3 25 | 15 24 | 4 26 | 22 51 | 1 13 | 22 31 | 1 10 | 20 56 | 0 13 | 6 44 | 2 23 | 5 28 | 0 36 | 17 23 | 1 37 | 8 44 | 9 35 | 10 0 | 9 44 | 25 4 | | | n.a. |
| T 17 | 22 5 | 27 26 | 4 6 | 15 27 | 4 32 | 22 39 | 1 14 | 22 24 | 1 10 | 20 56 | 0 13 | 6 42 | 2 23 | 5 28 | 0 36 | 17 23 | 1 37 | 8 44 | 9 35 | 9 57 | 9 43 | 25 6 | | | n.a. |
| F 18 | 21 56 | 28 18 | 4 36 | 15 32 | 4 36 | 22 26 | 1 16 | 22 17 | 1 10 | 20 55 | 0 13 | 6 40 | 2 23 | 5 28 | 0 36 | 17 24 | 1 37 | 8 44 | 9 35 | 9 53 | 9 41 | 25 8 | | | n.a. |
| S 19 | 21 46 | 27 48 | 4 55 | 15 39 | 4 38 | 22 13 | 1 17 | 22 9 | 1 10 | 20 55 | 0 12 | 6 38 | 2 23 | 5 28 | 0 36 | 17 24 | 1 37 | 8 44 | 9 35 | 9 48 | 9 40 | 25 10 | | | n.a. |
| S 20 | 21 36 | 25 56 | 5 0 | 15 49 | 4 39 | 21 59 | 1 18 | 22 2 | 1 10 | 20 55 | 0 12 | 6 35 | 2 23 | 5 28 | 0 37 | 17 24 | 1 37 | 8 44 | 9 36 | 9 43 | 9 39 | 25 12 | | | n.a. |
| M21 | 21 26 | 22 48 | 4 50 | 16 0 | 4 38 | 21 44 | 1 19 | 21 54 | 1 10 | 20 54 | 0 12 | 6 33 | 2 23 | 5 28 | 0 37 | 17 25 | 1 37 | 8 44 | 9 36 | 9 39 | 9 38 | 25 13 | | | n.a. |
| T 22 | 21 16 | 18 33 | 4 26 | 16 14 | 4 34 | 21 29 | 1 20 | 21 46 | 1 10 | 20 54 | 0 12 | 6 31 | 2 22 | 5 28 | 0 37 | 17 25 | 1 37 | 8 44 | 9 36 | 9 34 | 9 37 | 25 15 | | | n.a. |
| W23 | 21 5 | 13 24 | 3 49 | 16 29 | 4 29 | 21 13 | 1 20 | 21 38 | 1 10 | 20 54 | 0 12 | 6 29 | 2 22 | 5 28 | 0 37 | 17 25 | 1 37 | 8 44 | 9 36 | 9 31 | 9 35 | 25 17 | | | n.a. |
| T 24 | 20 53 | 7 35 | 2 59 | 16 46 | 4 23 | 20 56 | 1 21 | 21 30 | 1 10 | 20 54 | 0 12 | 6 27 | 2 22 | 5 28 | 0 37 | 17 25 | 1 37 | 8 44 | 9 36 | 9 29 | 9 34 | 25 19 | | | n.a. |
| F 25 | 20 42 | 1 21 | 1 58 | 17 4 | 4 14 | 20 39 | 1 22 | 21 22 | 1 10 | 20 53 | 0 11 | 6 24 | 2 22 | 5 28 | 0 37 | 17 26 | 1 37 | 8 44 | 9 36 | 9 27 | 9 33 | 25 20 | | | n.a. |
| S 26 | 20 30 | 5n 3 | 0 50 | 17 23 | 4 3 | 20 22 | 1 23 | 21 13 | 1 10 | 20 53 | 0 11 | 6 22 | 2 22 | 5 28 | 0 37 | 17 26 | 1 37 | 8 44 | 9 36 | 9 27 | 9 32 | 25 22 | | | n.a. |
| S 27 | 20 17 | 11 21 | 0n22 | 17 43 | 3 51 | 20 3 | 1 23 | 21 5 | 1 10 | 20 53 | 0 11 | 6 20 | 2 22 | 5 28 | 0 37 | 17 26 | 1 37 | 8 44 | 9 37 | 9 27 | 9 31 | 25 24 | | | n.a. |
| M28 | 20 4 | 17 12 | 1 35 | 18 3 | 3 38 | 19 44 | 1 24 | 20 56 | 1 10 | 20 53 | 0 11 | 6 17 | 2 21 | 5 28 | 0 37 | 17 26 | 1 37 | 8 44 | 9 37 | 9 27 | 9 30 | 25 26 | | | n.a. |
| T 29 | 19 51 | 22 14 | 2 43 | 18 24 | 3 23 | 19 25 | 1 24 | 20 47 | 1 10 | 20 53 | 0 11 | 6 15 | 2 21 | 5 28 | 0 37 | 17 27 | 1 37 | 8 44 | 9 37 | 9 26 | 9 28 | 25 27 | | | n.a. |
| W30 | 19 38 | 25 59 | 3 41 | 18 44 | 3 7 | 19 5 | 1 25 | 20 38 | 1 10 | 20 53 | 0 11 | 6 13 | 2 21 | 5 28 | 0 37 | 17 27 | 1 37 | 8 44 | 9 37 | 9 25 | 9 27 | 25 29 | | | n.a. |
| T 31 | 19n24 | 28n 4 | 4n26 | 19n 4 | 2s50 | 18n44 | 1n25 | 20n28 | 1n10 | 20s53 | 0n10 | 6n10 | 2n21 | 5n28 | 0s37 | 17n27 | 1s37 | 8n44 | 9s37 | 9n22 | 9n26 | 25s31 | | | n.a. |

Julian Day Number = 1692019.5, Delta T = 03h09m59s
Ecliptic obliquity = 23°42'25, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°10'34, Lahiri = - 5°03'33 Julian Calendar 1 July 81 BCE == Greg. Calendar 29 June 081 BCE

The year -80 astronomical counting style corresponds to year 081 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 81 BCE
# geocentric

## AUGUST 81 BCE (-80) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 20 27 53 | 5♌15'17 | 10♋22 | 21°R55 | 13♌16 | 5♌ 9 | 3°R19 | 20♍ 4 | 15°R 8 | 24♉10 | 20♉16 | 23°R44 | 24♈ 0 | 8♐33 | n.a. | F 1 |
| S 2 | 20 31 50 | 6°13'24 | 25° 3 | 21°D49 | 14°30 | 5°48 | 3♐19 | 20°10 | 15♈ 8 | 24°11 | 20°17 | 23♈33 | 23°57 | 8°40 | n.a. | S 2 |
| S 3 | 20 35 46 | 7°11'32 | 9♌34 | 21♋51 | 15°45 | 6°26 | 3°D19 | 20°16 | 15° 7 | 24°11 | 20°17 | 23°22 | 23°54 | 8°46 | n.a. | S 3 |
| M 4 | 20 39 43 | 8° 9'41 | 23°47 | 22° 1 | 16°59 | 7° 4 | 3°19 | 20°22 | 15° 7 | 24°12 | 20°18 | 23°12 | 23°51 | 8°53 | n.a. | M 4 |
| T 5 | 20 43 39 | 9° 7'53 | 7♍37 | 22°21 | 18°14 | 7°43 | 3°20 | 20°28 | 15° 6 | 24°13 | 20°18 | 23° 3 | 23°48 | 9° 0 | n.a. | T 5 |
| W 6 | 20 47 36 | 10° 6'06 | 21° 2 | 22°48 | 19°28 | 8°21 | 3°20 | 20°34 | 15° 5 | 24°14 | 20°18 | 22°57 | 23°44 | 9° 6 | n.a. | W 6 |
| T 7 | 20 51 32 | 11° 4'21 | 4♎ 2 | 23°24 | 20°43 | 9° 0 | 3°21 | 20°40 | 15° 5 | 24°15 | 20°19 | 22°53 | 23°41 | 9°13 | n.a. | T 7 |
| F 8 | 20 55 29 | 12° 2'37 | 16°39 | 24° 8 | 21°57 | 9°38 | 3°22 | 20°46 | 15° 4 | 24°16 | 20°19 | 22°52 | 23°38 | 9°20 | n.a. | F 8 |
| S 9 | 20 59 25 | 13° 0'55 | 28°56 | 25° 0 | 23°12 | 10°16 | 3°23 | 20°52 | 15° 3 | 24°16 | 20°19 | 22°D51 | 23°35 | 9°26 | n.a. | S 9 |
| S 10 | 21 3 22 | 13°59'15 | 10♏59 | 26° 0 | 24°26 | 10°55 | 3°24 | 20°59 | 15° 2 | 24°17 | 20°20 | 22°R52 | 23°32 | 9°33 | n.a. | S 10 |
| M11 | 21 7 19 | 14°57'36 | 22°53 | 27° 6 | 25°41 | 11°33 | 3°26 | 21° 5 | 15° 2 | 24°18 | 20°20 | 22°52 | 23°28 | 9°40 | n.a. | M11 |
| T 12 | 21 11 15 | 15°55'59 | 4♐43 | 28°19 | 26°55 | 12°12 | 3°27 | 21°11 | 15° 1 | 24°18 | 20°20 | 22°50 | 23°25 | 9°46 | n.a. | T 12 |
| W13 | 21 15 12 | 16°54'24 | 16°34 | 29°38 | 28°10 | 12°50 | 3°29 | 21°18 | 15° 0 | 24°19 | 20°21 | 22°46 | 23°22 | 9°53 | n.a. | W13 |
| T 14 | 21 19 8 | 17°52'51 | 28°31 | 1♌ 3 | 29°24 | 13°29 | 3°31 | 21°24 | 14°59 | 24°20 | 20°21 | 22°39 | 23°19 | 10° 0 | n.a. | T 14 |
| F 15 | 21 23 5 | 18°51'19 | 10♑38 | 2°32 | 0♍39 | 14° 7 | 3°34 | 21°30 | 14°58 | 24°20 | 20°21 | 22°30 | 23°16 | 10° 6 | n.a. | F 15 |
| S 16 | 21 27 1 | 19°49'50 | 22°56 | 4° 6 | 1°53 | 14°46 | 3°36 | 21°37 | 14°57 | 24°21 | 20°21 | 22°20 | 23°13 | 10°13 | n.a. | S 16 |
| S 17 | 21 30 58 | 20°48'22 | 5♒29 | 5°43 | 3° 8 | 15°24 | 3°39 | 21°43 | 14°55 | 24°21 | 20°21 | 22° 9 | 23° 9 | 10°20 | n.a. | S 17 |
| M18 | 21 34 54 | 21°46'56 | 18°15 | 7°24 | 4°22 | 16° 3 | 3°42 | 21°50 | 14°54 | 24°22 | 20°21 | 21°58 | 23° 6 | 10°27 | n.a. | M18 |
| T 19 | 21 38 51 | 22°45'32 | 1♓16 | 9° 7 | 5°37 | 16°41 | 3°44 | 21°57 | 14°53 | 24°22 | 20°21 | 21°49 | 23° 3 | 10°33 | n.a. | T 19 |
| W20 | 21 42 48 | 23°44'10 | 14°30 | 10°52 | 6°52 | 17°20 | 3°48 | 22° 3 | 14°52 | 24°22 | 20°22 | 21°41 | 23° 0 | 10°40 | n.a. | W20 |
| T 21 | 21 46 44 | 24°42'50 | 27°55 | 12°40 | 8° 6 | 17°59 | 3°51 | 22°10 | 14°50 | 24°23 | 20°22 | 21°36 | 22°57 | 10°47 | n.a. | T 21 |
| F 22 | 21 50 41 | 25°41'32 | 11♈30 | 14°28 | 9°21 | 18°37 | 3°55 | 22°16 | 14°49 | 24°23 | 20°22 | 21°34 | 22°54 | 10°53 | n.a. | F 22 |
| S 23 | 21 54 37 | 26°40'17 | 25°14 | 16°18 | 10°35 | 19°16 | 3°58 | 22°23 | 14°48 | 24°23 | 20°R22 | 21°D33 | 22°50 | 11° 0 | n.a. | S 23 |
| S 24 | 21 58 34 | 27°39'04 | 9♉ 7 | 18° 8 | 11°50 | 19°55 | 4° 2 | 22°30 | 14°46 | 24°23 | 20°22 | 21°34 | 22°47 | 11° 7 | n.a. | S 24 |
| M25 | 22 2 30 | 28°37'54 | 23° 8 | 19°58 | 13° 4 | 20°33 | 4° 6 | 22°37 | 14°45 | 24°24 | 20°22 | 21°R35 | 22°44 | 11°13 | n.a. | M25 |
| T 26 | 22 6 27 | 29°36'46 | 7♊15 | 21°49 | 14°19 | 21°12 | 4°10 | 22°44 | 14°43 | 24°24 | 20°22 | 21°35 | 22°41 | 11°20 | n.a. | T 26 |
| W27 | 22 10 23 | 0♍35'40 | 21°29 | 23°40 | 15°33 | 21°51 | 4°15 | 22°50 | 14°42 | 24°24 | 20°22 | 21°33 | 22°38 | 11°27 | n.a. | W27 |
| T 28 | 22 14 20 | 1°34'37 | 5♋47 | 25°30 | 16°48 | 22°29 | 4°19 | 22°57 | 14°40 | 24°24 | 20°21 | 21°29 | 22°34 | 11°33 | n.a. | T 28 |
| F 29 | 22 18 17 | 2°33'36 | 20° 5 | 27°21 | 18° 3 | 23° 8 | 4°24 | 23° 4 | 14°39 | 24°24 | 20°21 | 21°23 | 22°31 | 11°40 | n.a. | F 29 |
| S 30 | 22 22 13 | 3°32'38 | 4♌19 | 29°10 | 19°17 | 23°47 | 4°29 | 23°11 | 14°37 | 24°24 | 20°21 | 21°16 | 22°28 | 11°47 | n.a. | S 30 |
| S 31 | 22 26 10 | 4♍31'42 | 18♌24 | 0♍59 | 20♍32 | 24♌26 | 4♐34 | 23♍18 | 14♈35 | 24°R24 | 20♉21 | 21♈ 8 | 22♈25 | 11♐54 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| F 1 | 19n10 | 28n10 | 4n53 | 19n24 | 2s32 | 18n23 | 1n25 | 20n19 | 1n10 | 20s53 | 0n10 | 6n 8 | 2n21 | 5n28 | 0s37 | 17n27 | 1s37 | 8n44 | 9s37 | 9n19 | 9n25 | 25s33 | | n.a. | |
| S 2 | 18 56 | 26 17 | 5 1 | 19 42 | 2 15 | 18 1 | 1 25 | 20 9 | 1 10 | 20 53 | 0 10 | 6 5 | 2 21 | 5 27 | 0 37 | 17 27 | 1 37 | 8 44 | 9 38 | 9 15 | 9 24 | 25 34 | | n.a. | |
| S 3 | 18 41 | 22 42 | 4 49 | 20 0 | 1 56 | 17 39 | 1 26 | 20 0 | 1 10 | 20 54 | 0 10 | 6 3 | 2 21 | 5 27 | 0 37 | 17 28 | 1 37 | 8 44 | 9 38 | 9 11 | 9 22 | 25 36 | | n.a. | |
| M 4 | 18 26 | 17 49 | 4 20 | 20 16 | 1 38 | 17 17 | 1 26 | 19 50 | 1 10 | 20 54 | 0 10 | 6 0 | 2 20 | 5 27 | 0 37 | 17 28 | 1 37 | 8 44 | 9 38 | 9 7 | 9 21 | 25 38 | | n.a. | |
| T 5 | 18 10 | 12 8 | 3 35 | 20 31 | 1 20 | 16 54 | 1 26 | 19 40 | 1 10 | 20 54 | 0 10 | 5 58 | 2 20 | 5 27 | 0 37 | 17 28 | 1 37 | 8 44 | 9 38 | 9 3 | 9 20 | 25 39 | | n.a. | |
| W 6 | 17 55 | 6 3 | 2 40 | 20 44 | 1 3 | 16 30 | 1 26 | 19 30 | 1 10 | 20 54 | 0 9 | 5 55 | 2 20 | 5 26 | 0 37 | 17 28 | 1 37 | 8 44 | 9 38 | 9 1 | 9 19 | 25 41 | | n.a. | |
| T 7 | 17 39 | 0s 7 | 1 38 | 20 54 | 0 45 | 16 6 | 1 26 | 19 20 | 1 10 | 20 55 | 0 9 | 5 53 | 2 20 | 5 26 | 0 37 | 17 28 | 1 38 | 8 44 | 9 38 | 9 0 | 9 18 | 25 43 | | n.a. | |
| F 8 | 17 22 | 6 6 | 0 33 | 21 3 | 0 29 | 15 42 | 1 25 | 19 9 | 1 10 | 20 55 | 0 9 | 5 50 | 2 20 | 5 26 | 0 37 | 17 28 | 1 38 | 8 44 | 9 38 | 8 59 | 9 17 | 25 44 | | n.a. | |
| S 9 | 17 6 | 11 43 | 0s32 | 21 9 | 0 13 | 15 17 | 1 25 | 18 59 | 1 10 | 20 55 | 0 9 | 5 48 | 2 20 | 5 26 | 0 37 | 17 28 | 1 38 | 8 43 | 9 39 | 8 59 | 9 15 | 25 46 | | n.a. | |
| S 10 | 16 49 | 16 47 | 1 35 | 21 13 | 0n 2 | 14 51 | 1 25 | 18 48 | 1 9 | 20 56 | 0 9 | 5 45 | 2 20 | 5 25 | 0 37 | 17 29 | 1 38 | 8 43 | 9 39 | 8 59 | 9 14 | 25 48 | | n.a. | |
| M11 | 16 32 | 21 9 | 2 33 | 21 14 | 0 16 | 14 26 | 1 24 | 18 37 | 1 9 | 20 56 | 0 9 | 5 42 | 2 20 | 5 25 | 0 37 | 17 29 | 1 38 | 8 43 | 9 39 | 8 59 | 9 13 | 25 49 | | n.a. | |
| T 12 | 16 14 | 24 39 | 3 23 | 21 13 | 0 30 | 13 59 | 1 24 | 18 26 | 1 9 | 20 57 | 0 8 | 5 40 | 2 19 | 5 25 | 0 37 | 17 29 | 1 38 | 8 43 | 9 39 | 8 58 | 9 12 | 25 51 | | n.a. | |
| W13 | 15 57 | 27 5 | 4 5 | 21 8 | 0 42 | 13 33 | 1 24 | 18 15 | 1 9 | 20 57 | 0 8 | 5 37 | 2 19 | 5 24 | 0 37 | 17 29 | 1 38 | 8 43 | 9 39 | 8 57 | 9 11 | 25 53 | | n.a. | |
| T 14 | 15 39 | 28 19 | 4 37 | 21 1 | 0 53 | 13 6 | 1 23 | 18 4 | 1 9 | 20 58 | 0 8 | 5 35 | 2 19 | 5 24 | 0 37 | 17 29 | 1 38 | 8 43 | 9 40 | 8 54 | 9 9 | 25 54 | | n.a. | |
| F 15 | 15 20 | 28 12 | 4 57 | 20 51 | 1 3 | 12 39 | 1 22 | 17 53 | 1 9 | 20 58 | 0 8 | 5 32 | 2 19 | 5 23 | 0 37 | 17 29 | 1 38 | 8 43 | 9 40 | 8 51 | 9 8 | 25 56 | | n.a. | |
| S 16 | 15 2 | 26 43 | 5 3 | 20 37 | 1 13 | 12 11 | 1 22 | 17 41 | 1 9 | 20 59 | 0 8 | 5 29 | 2 19 | 5 23 | 0 37 | 17 29 | 1 38 | 8 43 | 9 40 | 8 47 | 9 7 | 25 57 | | n.a. | |
| S 17 | 14 43 | 23 53 | 4 55 | 20 21 | 1 21 | 11 43 | 1 21 | 17 30 | 1 9 | 21 0 | 0 8 | 5 27 | 2 19 | 5 22 | 0 37 | 17 29 | 1 38 | 8 43 | 9 40 | 8 43 | 9 6 | 25 59 | | n.a. | |
| M18 | 14 24 | 19 50 | 4 32 | 20 2 | 1 28 | 11 15 | 1 20 | 17 18 | 1 9 | 21 0 | 0 7 | 5 24 | 2 19 | 5 22 | 0 37 | 17 29 | 1 38 | 8 42 | 9 40 | 8 39 | 9 5 | 26 1 | | n.a. | |
| T 19 | 14 5 | 14 48 | 3 55 | 19 41 | 1 34 | 10 47 | 1 19 | 17 6 | 1 9 | 21 1 | 0 7 | 5 21 | 2 19 | 5 21 | 0 37 | 17 29 | 1 38 | 8 42 | 9 40 | 8 35 | 9 3 | 26 2 | | n.a. | |
| W20 | 13 45 | 9 0 | 3 5 | 19 17 | 1 39 | 10 18 | 1 18 | 16 54 | 1 9 | 21 2 | 0 7 | 5 18 | 2 19 | 5 21 | 0 37 | 17 29 | 1 38 | 8 42 | 9 41 | 8 33 | 9 2 | 26 4 | | n.a. | |
| T 21 | 13 26 | 2 43 | 2 3 | 18 50 | 1 43 | 9 49 | 1 17 | 16 42 | 1 9 | 21 2 | 0 7 | 5 16 | 2 19 | 5 20 | 0 37 | 17 29 | 1 38 | 8 42 | 9 41 | 8 31 | 9 1 | 26 5 | | n.a. | |
| F 22 | 13 6 | 3n47 | 0 54 | 18 22 | 1 46 | 9 20 | 1 16 | 16 30 | 1 9 | 21 3 | 0 7 | 5 13 | 2 19 | 5 20 | 0 37 | 17 29 | 1 38 | 8 42 | 9 41 | 8 30 | 9 0 | 26 7 | | n.a. | |
| S 23 | 12 46 | 10 11 | 0n20 | 17 51 | 1 48 | 8 50 | 1 15 | 16 18 | 1 9 | 21 4 | 0 7 | 5 10 | 2 18 | 5 19 | 0 37 | 17 29 | 1 38 | 8 42 | 9 41 | 8 30 | 8 59 | 26 8 | | n.a. | |
| S 24 | 12 25 | 16 9 | 1 33 | 17 18 | 1 50 | 8 20 | 1 14 | 16 6 | 1 9 | 21 5 | 0 7 | 5 7 | 2 18 | 5 19 | 0 37 | 17 29 | 1 38 | 8 42 | 9 41 | 8 30 | 8 57 | 26 10 | | n.a. | |
| M25 | 12 5 | 21 21 | 2 41 | 16 44 | 1 51 | 7 50 | 1 12 | 15 53 | 1 9 | 21 6 | 0 6 | 5 5 | 2 18 | 5 18 | 0 37 | 17 29 | 1 38 | 8 41 | 9 41 | 8 30 | 8 56 | 26 12 | | n.a. | |
| T 26 | 11 44 | 25 23 | 3 40 | 16 8 | 1 51 | 7 20 | 1 11 | 15 40 | 1 9 | 21 7 | 0 6 | 5 2 | 2 18 | 5 18 | 0 37 | 17 29 | 1 38 | 8 41 | 9 42 | 8 30 | 8 55 | 26 13 | | n.a. | |
| W27 | 11 23 | 27 51 | 4 26 | 15 31 | 1 50 | 6 50 | 1 10 | 15 28 | 1 8 | 21 8 | 0 6 | 4 59 | 2 18 | 5 17 | 0 37 | 17 29 | 1 38 | 8 41 | 9 42 | 8 30 | 8 54 | 26 15 | | n.a. | |
| T 28 | 11 2 | 28 30 | 4 56 | 14 52 | 1 49 | 6 19 | 1 8 | 15 15 | 1 8 | 21 9 | 0 6 | 4 56 | 2 18 | 5 16 | 0 37 | 17 29 | 1 39 | 8 41 | 9 42 | 8 28 | 8 53 | 26 16 | | n.a. | |
| F 29 | 10 41 | 27 15 | 5 7 | 14 12 | 1 47 | 5 48 | 1 7 | 15 2 | 1 8 | 21 10 | 0 6 | 4 53 | 2 18 | 5 16 | 0 37 | 17 29 | 1 39 | 8 41 | 9 42 | 8 26 | 8 52 | 26 18 | | n.a. | |
| S 30 | 10 19 | 24 14 | 4 59 | 13 31 | 1 45 | 5 17 | 1 5 | 14 49 | 1 8 | 21 11 | 0 6 | 4 51 | 2 18 | 5 15 | 0 37 | 17 29 | 1 39 | 8 41 | 9 42 | 8 23 | 8 50 | 26 19 | | n.a. | |
| S 31 | 9n57 | 19n48 | 4n33 | 12n50 | 1n42 | 4n46 | 1n 4 | 14n36 | 1n 8 | 21s12 | 0n 6 | 4n48 | 2n18 | 5n14 | 0s37 | 17n29 | 1s39 | 8n40 | 9s42 | 8n20 | 8n49 | 26s21 | | n.a. | |

Julian Day Number = 1692050.5, Delta T = 03h09m58s
Ecliptic obliquity = 23°42'25, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°10'29, Lahiri = - 5°03'29 Julian Calendar 1 Aug. 81 BCE == Greg. Calendar 30 July 081 BCE

The year -80 astronomical counting style corresponds to year 081 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 81 BCE
# geocentric

## SEPTEMBER 81 BCE (-80) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 22 30 6 | 5♍30'48 | 2♍15 | 2♍48 | 21♍46 | 25♌ 4 | 4♐39 | 23♍25 | 14°R33 | 24°R24 | 20°R21 | 21°R 0 | 22♈22 | 12♐ 0 | n.a. | M 1 |
| T 2 | 22 34 3 | 6°29'56 | 15°49 | 4°36 | 23° 1 | 25°43 | 4°45 | 23°32 | 14♈32 | 24♉24 | 20♉21 | 20♈54 | 22°19 | 12° 7 | n.a. | T 2 |
| W 3 | 22 37 59 | 7°29'06 | 29° 3 | 6°23 | 24°16 | 26°22 | 4°50 | 23°39 | 14°30 | 24°24 | 20°20 | 20°50 | 22°15 | 12°14 | n.a. | W 3 |
| T 4 | 22 41 56 | 8°28'18 | 11♎56 | 8° 9 | 25°30 | 27° 1 | 4°56 | 23°46 | 14°28 | 24°24 | 20°20 | 20°48 | 22°12 | 12°20 | n.a. | T 4 |
| F 5 | 22 45 52 | 9°27'32 | 24°30 | 9°55 | 26°45 | 27°40 | 5° 2 | 23°53 | 14°26 | 24°24 | 20°20 | 20°D48 | 22° 9 | 12°27 | n.a. | F 5 |
| S 6 | 22 49 49 | 10°26'48 | 6♏47 | 11°39 | 27°59 | 28°19 | 5° 8 | 24° 0 | 14°24 | 24°24 | 20°20 | 20°49 | 22° 6 | 12°34 | n.a. | S 6 |
| S 7 | 22 53 45 | 11°26'07 | 18°50 | 13°23 | 29°14 | 28°58 | 5°14 | 24° 7 | 14°22 | 24°23 | 20°19 | 20°50 | 22° 3 | 12°40 | n.a. | S 7 |
| M 8 | 22 57 42 | 12°25'27 | 0♐45 | 15° 7 | 0♎28 | 29°36 | 5°21 | 24°15 | 14°20 | 24°23 | 20°19 | 20°52 | 22° 0 | 12°47 | n.a. | M 8 |
| T 9 | 23 1 39 | 13°24'49 | 12°36 | 16°49 | 1°43 | 0♏15 | 5°27 | 24°22 | 14°18 | 24°23 | 20°19 | 20°R52 | 21°56 | 12°54 | n.a. | T 9 |
| W10 | 23 5 35 | 14°24'13 | 24°28 | 18°31 | 2°58 | 0°54 | 5°34 | 24°29 | 14°16 | 24°22 | 20°18 | 20°52 | 21°53 | 13° 0 | n.a. | W10 |
| T 11 | 23 9 32 | 15°23'38 | 6♑26 | 20°11 | 4°12 | 1°33 | 5°41 | 24°36 | 14°14 | 24°22 | 20°18 | 20°50 | 21°50 | 13° 7 | n.a. | T 11 |
| F 12 | 23 13 28 | 16°23'06 | 18°35 | 21°52 | 5°27 | 2°12 | 5°48 | 24°43 | 14°12 | 24°22 | 20°17 | 20°46 | 21°47 | 13°14 | n.a. | F 12 |
| S 13 | 23 17 25 | 17°22'36 | 0♒59 | 23°31 | 6°41 | 2°51 | 5°55 | 24°50 | 14°10 | 24°21 | 20°17 | 20°41 | 21°44 | 13°21 | n.a. | S 13 |
| S 14 | 23 21 21 | 18°22'07 | 13°39 | 25° 9 | 7°56 | 3°30 | 6° 2 | 24°58 | 14° 8 | 24°21 | 20°17 | 20°36 | 21°40 | 13°27 | n.a. | S 14 |
| M15 | 23 25 18 | 19°21'40 | 26°38 | 26°47 | 9°10 | 4° 9 | 6°10 | 25° 5 | 14° 6 | 24°20 | 20°16 | 20°30 | 21°37 | 13°34 | n.a. | M15 |
| T 16 | 23 29 14 | 20°21'16 | 9♓56 | 28°25 | 10°25 | 4°49 | 6°17 | 25°12 | 14° 3 | 24°20 | 20°16 | 20°26 | 21°34 | 13°41 | n.a. | T 16 |
| W17 | 23 33 11 | 21°20'53 | 23°32 | 0♎ 1 | 11°39 | 5°28 | 6°25 | 25°19 | 14° 1 | 24°19 | 20°15 | 20°22 | 21°31 | 13°47 | n.a. | W17 |
| T 18 | 23 37 8 | 22°20'33 | 7♈22 | 1°37 | 12°54 | 6° 7 | 6°33 | 25°26 | 13°59 | 24°19 | 20°15 | 20°20 | 21°28 | 13°54 | n.a. | T 18 |
| F 19 | 23 41 4 | 23°20'14 | 21°24 | 3°12 | 14° 8 | 6°46 | 6°41 | 25°34 | 13°57 | 24°18 | 20°14 | 20°D19 | 21°25 | 14° 1 | n.a. | F 19 |
| S 20 | 23 45 1 | 24°19'58 | 5♉34 | 4°47 | 15°23 | 7°25 | 6°49 | 25°41 | 13°54 | 24°17 | 20°13 | 20°20 | 21°21 | 14° 7 | n.a. | S 20 |
| S 21 | 23 48 57 | 25°19'45 | 19°48 | 6°21 | 16°37 | 8° 4 | 6°57 | 25°48 | 13°52 | 24°17 | 20°13 | 20°21 | 21°18 | 14°14 | n.a. | S 21 |
| M22 | 23 52 54 | 26°19'33 | 4♊ 4 | 7°54 | 17°52 | 8°43 | 7° 6 | 25°55 | 13°50 | 24°16 | 20°12 | 20°23 | 21°15 | 14°21 | n.a. | M22 |
| T 23 | 23 56 50 | 27°19'24 | 18°18 | 9°27 | 19° 6 | 9°23 | 7°14 | 26° 2 | 13°47 | 24°15 | 20°12 | 20°24 | 21°12 | 14°27 | n.a. | T 23 |
| W24 | 0 0 47 | 28°19'18 | 2♋28 | 10°59 | 20°21 | 10° 2 | 7°23 | 26°10 | 13°45 | 24°14 | 20°11 | 20°R24 | 21° 9 | 14°34 | n.a. | W24 |
| T 25 | 0 4 43 | 29°19'14 | 16°33 | 12°31 | 21°35 | 10°41 | 7°32 | 26°17 | 13°43 | 24°14 | 20°10 | 20°23 | 21° 5 | 14°41 | n.a. | T 25 |
| F 26 | 0 8 40 | 0♎19'12 | 0♌30 | 14° 2 | 22°50 | 11°20 | 7°41 | 26°24 | 13°40 | 24°13 | 20°10 | 20°21 | 21° 2 | 14°48 | n.a. | F 26 |
| S 27 | 0 12 37 | 1°19'12 | 14°18 | 15°33 | 24° 4 | 12° 0 | 7°50 | 26°31 | 13°38 | 24°12 | 20° 9 | 20°19 | 20°59 | 14°54 | n.a. | S 27 |
| S 28 | 0 16 33 | 2°19'15 | 27°55 | 17° 3 | 25°19 | 12°39 | 7°59 | 26°39 | 13°36 | 24°11 | 20° 8 | 20°16 | 20°56 | 15° 1 | n.a. | S 28 |
| M29 | 0 20 30 | 3°19'20 | 11♍19 | 18°32 | 26°33 | 13°18 | 8° 8 | 26°46 | 13°33 | 24°10 | 20° 8 | 20°14 | 20°53 | 15° 8 | n.a. | M29 |
| T 30 | 0 24 26 | 4♎19'26 | 24♍29 | 20♎ 1 | 27♎48 | 13♍58 | 8♐18 | 26♍53 | 13♈31 | 24♉ 9 | 20♉ 7 | 20♈12 | 20♈50 | 15♐14 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 9n36 | 14n23 | 3n52 | 12n 7 | 1n39 | 4n15 | 1n 2 | 14n22 | 1n 8 | 21s13 | 0n 5 | 4n45 | 2n18 | 5n14 | 0s37 | 17n29 | 1s39 | 8n40 | 9s43 | 8n17 | 8n48 | 26s22 | | n.a. |
| T 2 | 9 14 | 8 23 | 2 58 | 11 24 | 1 35 | 3 43 | 1 0 | 14 9 | 1 8 | 21 14 | 0 5 | 4 42 | 2 18 | 5 13 | 0 37 | 17 29 | 1 39 | 8 40 | 9 43 | 8 15 | 8 47 | 26 24 | | n.a. |
| W 3 | 8 51 | 2 8 | 1 55 | 10 41 | 1 31 | 3 12 | 0 59 | 13 56 | 1 8 | 21 15 | 0 5 | 4 39 | 2 18 | 5 12 | 0 37 | 17 29 | 1 39 | 8 40 | 9 43 | 8 13 | 8 46 | 26 25 | | n.a. |
| T 4 | 8 29 | 4s 2 | 0 48 | 9 57 | 1 27 | 2 40 | 0 57 | 13 42 | 1 8 | 21 17 | 0 5 | 4 36 | 2 18 | 5 11 | 0 37 | 17 29 | 1 39 | 8 39 | 9 43 | 8 13 | 8 44 | 26 27 | | n.a. |
| F 5 | 8 7 | 9 55 | 0s20 | 9 12 | 1 22 | 2 9 | 0 55 | 13 29 | 1 8 | 21 18 | 0 5 | 4 33 | 2 18 | 5 11 | 0 37 | 17 29 | 1 39 | 8 39 | 9 43 | 8 12 | 8 43 | 26 28 | | n.a. |
| S 6 | 7 44 | 15 17 | 1 26 | 8 27 | 1 17 | 1 37 | 0 53 | 13 15 | 1 7 | 21 19 | 0 5 | 4 31 | 2 18 | 5 10 | 0 38 | 17 29 | 1 39 | 8 39 | 9 43 | 8 13 | 8 42 | 26 30 | | n.a. |
| S 7 | 7 21 | 19 58 | 2 27 | 7 42 | 1 12 | 1 5 | 0 51 | 13 1 | 1 7 | 21 20 | 0 5 | 4 28 | 2 18 | 5 9 | 0 38 | 17 29 | 1 39 | 8 39 | 9 44 | 8 13 | 8 41 | 26 31 | | n.a. |
| M 8 | 6 58 | 23 48 | 3 20 | 6 57 | 1 7 | 0 33 | 0 49 | 12 47 | 1 7 | 21 22 | 0 4 | 4 25 | 2 18 | 5 8 | 0 38 | 17 29 | 1 39 | 8 39 | 9 44 | 8 14 | 8 40 | 26 32 | | n.a. |
| T 9 | 6 35 | 26 36 | 4 5 | 6 12 | 1 1 | 0 2 | 0 47 | 12 33 | 1 7 | 21 23 | 0 4 | 4 22 | 2 18 | 5 8 | 0 38 | 17 29 | 1 39 | 8 38 | 9 44 | 8 14 | 8 38 | 26 34 | | n.a. |
| W10 | 6 12 | 28 14 | 4 39 | 5 26 | 0 55 | 0s30 | 0 45 | 12 19 | 1 7 | 21 24 | 0 4 | 4 19 | 2 18 | 5 7 | 0 38 | 17 28 | 1 39 | 8 38 | 9 44 | 8 14 | 8 37 | 26 35 | | n.a. |
| T 11 | 5 49 | 28 34 | 5 2 | 4 41 | 0 49 | 1 2 | 0 43 | 12 5 | 1 7 | 21 26 | 0 4 | 4 16 | 2 18 | 5 6 | 0 38 | 17 28 | 1 39 | 8 38 | 9 44 | 8 13 | 8 36 | 26 37 | | n.a. |
| F 12 | 5 26 | 27 32 | 5 11 | 3 55 | 0 43 | 1 34 | 0 40 | 11 51 | 1 7 | 21 27 | 0 4 | 4 13 | 2 18 | 5 5 | 0 38 | 17 28 | 1 39 | 8 38 | 9 44 | 8 12 | 8 35 | 26 38 | | n.a. |
| S 13 | 5 2 | 25 9 | 5 7 | 3 10 | 0 37 | 2 6 | 0 38 | 11 36 | 1 7 | 21 28 | 0 4 | 4 10 | 2 18 | 5 4 | 0 38 | 17 28 | 1 39 | 8 37 | 9 44 | 8 10 | 8 34 | 26 40 | | n.a. |
| S 14 | 4 39 | 21 29 | 4 47 | 2 24 | 0 30 | 2 38 | 0 36 | 11 22 | 1 6 | 21 30 | 0 4 | 4 8 | 2 18 | 5 3 | 0 38 | 17 28 | 1 39 | 8 37 | 9 45 | 8 8 | 8 32 | 26 41 | | n.a. |
| M15 | 4 15 | 16 43 | 4 12 | 1 39 | 0 24 | 3 10 | 0 34 | 11 7 | 1 6 | 21 31 | 0 3 | 4 5 | 2 18 | 5 3 | 0 38 | 17 28 | 1 39 | 8 37 | 9 45 | 8 6 | 8 31 | 26 42 | | n.a. |
| T 16 | 3 52 | 11 3 | 3 23 | 0 54 | 0 17 | 3 41 | 0 31 | 10 53 | 1 6 | 21 33 | 0 3 | 4 2 | 2 18 | 5 2 | 0 38 | 17 28 | 1 39 | 8 37 | 9 45 | 8 4 | 8 30 | 26 44 | | n.a. |
| W17 | 3 28 | 4 46 | 2 22 | 0 9 | 0 10 | 4 13 | 0 29 | 10 38 | 1 6 | 21 34 | 0 3 | 3 59 | 2 18 | 5 1 | 0 38 | 17 27 | 1 39 | 8 36 | 9 45 | 8 3 | 8 29 | 26 45 | | n.a. |
| T 18 | 3 4 | 1n53 | 1 11 | 0s36 | 0 4 | 4 45 | 0 27 | 10 23 | 1 6 | 21 36 | 0 3 | 3 56 | 2 18 | 5 0 | 0 38 | 17 27 | 1 40 | 8 36 | 9 45 | 8 2 | 8 28 | 26 47 | | n.a. |
| F 19 | 2 40 | 8 32 | 0n 6 | 1 20 | 0s 3 | 5 16 | 0 24 | 10 9 | 1 6 | 21 37 | 0 3 | 3 53 | 2 18 | 4 59 | 0 38 | 17 27 | 1 40 | 8 36 | 9 45 | 8 2 | 8 26 | 26 48 | | n.a. |
| S 20 | 2 17 | 14 49 | 1 23 | 2 4 | 0 10 | 5 47 | 0 22 | 9 54 | 1 6 | 21 39 | 0 3 | 3 50 | 2 18 | 4 58 | 0 38 | 17 27 | 1 40 | 8 35 | 9 45 | 8 2 | 8 25 | 26 49 | | n.a. |
| S 21 | 1 53 | 20 22 | 2 35 | 2 48 | 0 17 | 6 19 | 0 19 | 9 39 | 1 5 | 21 40 | 0 3 | 3 47 | 2 18 | 4 57 | 0 38 | 17 27 | 1 40 | 8 35 | 9 46 | 8 2 | 8 24 | 26 51 | | n.a. |
| M22 | 1 29 | 24 45 | 3 38 | 3 32 | 0 23 | 6 50 | 0 17 | 9 24 | 1 5 | 21 42 | 0 3 | 3 44 | 2 18 | 4 56 | 0 38 | 17 26 | 1 40 | 8 35 | 9 46 | 8 3 | 8 23 | 26 52 | | n.a. |
| T 23 | 1 5 | 27 37 | 4 27 | 4 15 | 0 30 | 7 21 | 0 14 | 9 9 | 1 5 | 21 43 | 0 2 | 3 42 | 2 18 | 4 55 | 0 38 | 17 26 | 1 40 | 8 35 | 9 46 | 8 3 | 8 22 | 26 53 | | n.a. |
| W24 | 0 40 | 28 41 | 5 0 | 4 58 | 0 37 | 7 52 | 0 12 | 8 54 | 1 5 | 21 45 | 0 2 | 3 39 | 2 18 | 4 54 | 0 38 | 17 26 | 1 40 | 8 34 | 9 46 | 8 3 | 8 20 | 26 55 | | n.a. |
| T 25 | 0 16 | 27 52 | 5 14 | 5 40 | 0 44 | 8 22 | 0 9 | 8 38 | 1 5 | 21 46 | 0 2 | 3 36 | 2 18 | 4 54 | 0 38 | 17 26 | 1 40 | 8 34 | 9 46 | 8 3 | 8 19 | 26 56 | | n.a. |
| F 26 | 0s 8 | 25 18 | 5 10 | 6 22 | 0 50 | 8 53 | 0 6 | 8 23 | 1 5 | 21 48 | 0 2 | 3 33 | 2 18 | 4 53 | 0 38 | 17 25 | 1 40 | 8 34 | 9 46 | 8 2 | 8 18 | 26 57 | | n.a. |
| S 27 | 0 32 | 21 18 | 4 48 | 7 4 | 0 57 | 9 23 | 0 4 | 8 8 | 1 4 | 21 50 | 0 2 | 3 30 | 2 18 | 4 52 | 0 38 | 17 25 | 1 40 | 8 33 | 9 46 | 8 1 | 8 17 | 26 59 | | n.a. |
| S 28 | 0 56 | 16 14 | 4 10 | 7 45 | 1 4 | 9 53 | 0 1 | 7 52 | 1 4 | 21 51 | 0 2 | 3 27 | 2 18 | 4 51 | 0 38 | 17 25 | 1 40 | 8 33 | 9 46 | 8 0 | 8 16 | 27 0 | | n.a. |
| M29 | 1 20 | 10 27 | 3 18 | 8 25 | 1 10 | 10 23 | 0s 2 | 7 37 | 1 4 | 21 53 | 0 2 | 3 24 | 2 18 | 4 50 | 0 38 | 17 25 | 1 40 | 8 33 | 9 47 | 8 0 | 8 14 | 27 1 | | n.a. |
| T 30 | 1s44 | 4n19 | 2n17 | 9s 6 | 1s17 | 10s52 | 0s 4 | 7n21 | 1n 4 | 21s55 | 0n 2 | 3n21 | 2n18 | 4n49 | 0s38 | 17n24 | 1s40 | 8n32 | 9s47 | 7n59 | 8n13 | 27s 2 | | n.a. |

Julian Day Number = 1692081.5, Delta T = 03h09m57s
Ecliptic obliquity = 23°42'26, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°10'25, Lahiri = - 5°03'25 Julian Calendar 1 Sept. 81 BCE == Greg. Calendar 30 Aug. 081 BCE

The year -80 astronomical counting style corresponds to year 081 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 81 BCE
# geocentric

## OCTOBER 81 BCE (-80) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 0 28 23 | 5♎19'35 | 7♎24 | 21♎30 | 29♎ 2 | 14♍37 | 8♐27 | 27♍ 0 | 13°R28 | 24°R 8 | 20°R 6 | 20°R11 | 20♈46 | 15♐21 | n.a. | W 1 |
| T 2 | 0 32 19 | 6°19'46 | 20° 4 | 22°58 | 0♏16 | 15°17 | 8°37 | 27° 7 | 13♈26 | 24♉ 7 | 20♉ 5 | 20°D10 | 20°43 | 15°28 | n.a. | T 2 |
| F 3 | 0 36 16 | 7°19'58 | 2♏29 | 24°25 | 1°31 | 15°56 | 8°47 | 27°14 | 13°23 | 24° 6 | 20° 4 | 20♈11 | 20°40 | 15°34 | n.a. | F 3 |
| S 4 | 0 40 12 | 8°20'13 | 14°42 | 25°51 | 2°45 | 16°36 | 8°57 | 27°22 | 13°21 | 24° 5 | 20° 4 | 20°11 | 20°37 | 15°41 | n.a. | S 4 |
| S 5 | 0 44 9 | 9°20'29 | 26°43 | 27°17 | 4° 0 | 17°15 | 9° 7 | 27°29 | 13°18 | 24° 4 | 20° 3 | 20°13 | 20°34 | 15°48 | n.a. | S 5 |
| M 6 | 0 48 5 | 10°20'47 | 8♐38 | 28°42 | 5°14 | 17°55 | 9°17 | 27°36 | 13°16 | 24° 3 | 20° 2 | 20°14 | 20°31 | 15°55 | n.a. | M 6 |
| T 7 | 0 52 2 | 11°21'06 | 20°28 | 0♏ 7 | 6°29 | 18°34 | 9°27 | 27°43 | 13°13 | 24° 2 | 20° 1 | 20°15 | 20°27 | 16° 1 | n.a. | T 7 |
| W 8 | 0 55 59 | 12°21'27 | 2♑20 | 1°31 | 7°43 | 19°14 | 9°38 | 27°50 | 13°11 | 24° 1 | 20° 0 | 20°15 | 20°24 | 16° 8 | n.a. | W 8 |
| T 9 | 0 59 55 | 13°21'50 | 14°17 | 2°54 | 8°57 | 19°53 | 9°48 | 27°57 | 13° 8 | 23°59 | 19°59 | 20°R15 | 20°21 | 16°15 | n.a. | T 9 |
| F 10 | 1 3 52 | 14°22'14 | 26°24 | 4°16 | 10°12 | 20°33 | 9°59 | 28° 4 | 13° 6 | 23°58 | 19°58 | 20°15 | 20°18 | 16°21 | n.a. | F 10 |
| S 11 | 1 7 48 | 15°22'40 | 8♒46 | 5°37 | 11°26 | 21°12 | 10° 9 | 28°11 | 13° 3 | 23°57 | 19°57 | 20°15 | 20°15 | 16°28 | n.a. | S 11 |
| S 12 | 1 11 45 | 16°23'07 | 21°26 | 6°56 | 12°40 | 21°52 | 10°20 | 28°18 | 13° 1 | 23°56 | 19°56 | 20°14 | 20°11 | 16°35 | n.a. | S 12 |
| M13 | 1 15 41 | 17°23'36 | 4♓29 | 8°15 | 13°55 | 22°32 | 10°31 | 28°25 | 12°58 | 23°54 | 19°56 | 20°14 | 20° 8 | 16°41 | n.a. | M13 |
| T 14 | 1 19 38 | 18°24'06 | 17°54 | 9°32 | 15° 9 | 23°11 | 10°42 | 28°32 | 12°56 | 23°53 | 19°55 | 20°13 | 20° 5 | 16°48 | n.a. | T 14 |
| W15 | 1 23 34 | 19°24'37 | 1♈44 | 10°48 | 16°23 | 23°51 | 10°53 | 28°39 | 12°53 | 23°52 | 19°54 | 20°13 | 20° 2 | 16°55 | n.a. | W15 |
| T 16 | 1 27 31 | 20°25'10 | 15°54 | 12° 2 | 17°37 | 24°31 | 11° 4 | 28°46 | 12°51 | 23°50 | 19°53 | 20°13 | 19°59 | 17° 2 | n.a. | T 16 |
| F 17 | 1 31 28 | 21°25'45 | 0♉22 | 13°15 | 18°52 | 25°10 | 11°15 | 28°53 | 12°49 | 23°49 | 19°52 | 20°13 | 19°56 | 17° 8 | n.a. | F 17 |
| S 18 | 1 35 24 | 22°26'22 | 15° 0 | 14°25 | 20° 6 | 25°50 | 11°27 | 29° 0 | 12°46 | 23°48 | 19°51 | 20°13 | 19°52 | 17°15 | n.a. | S 18 |
| S 19 | 1 39 21 | 23°27'00 | 29°44 | 15°32 | 21°20 | 26°30 | 11°38 | 29° 6 | 12°44 | 23°46 | 19°50 | 20°13 | 19°49 | 17°22 | n.a. | S 19 |
| M20 | 1 43 17 | 24°27'40 | 14♊25 | 16°37 | 22°34 | 27°10 | 11°49 | 29°13 | 12°41 | 23°45 | 19°49 | 20°13 | 19°46 | 17°28 | n.a. | M20 |
| T 21 | 1 47 14 | 25°28'22 | 28°58 | 17°39 | 23°48 | 27°50 | 12° 1 | 29°20 | 12°39 | 23°43 | 19°48 | 20°12 | 19°43 | 17°35 | n.a. | T 21 |
| W22 | 1 51 10 | 26°29'05 | 13♋18 | 18°37 | 25° 3 | 28°30 | 12°13 | 29°27 | 12°36 | 23°42 | 19°46 | 20°12 | 19°40 | 17°42 | n.a. | W22 |
| T 23 | 1 55 7 | 27°29'51 | 27°23 | 19°31 | 26°17 | 29° 9 | 12°25 | 29°33 | 12°34 | 23°40 | 19°45 | 20°D11 | 19°37 | 17°48 | n.a. | T 23 |
| F 24 | 1 59 3 | 28°30'38 | 11♌11 | 20°21 | 27°31 | 29°49 | 12°36 | 29°40 | 12°32 | 23°39 | 19°44 | 20°12 | 19°33 | 17°55 | n.a. | F 24 |
| S 25 | 2 3 0 | 29°31'26 | 24°42 | 21° 6 | 28°45 | 0♎29 | 12°48 | 29°47 | 12°29 | 23°37 | 19°43 | 20°12 | 19°30 | 18° 2 | n.a. | S 25 |
| S 26 | 2 6 57 | 0♏32'17 | 7♍57 | 21°44 | 29°59 | 1° 9 | 13° 0 | 29°53 | 12°27 | 23°36 | 19°42 | 20°13 | 19°27 | 18° 9 | n.a. | S 26 |
| M27 | 2 10 53 | 1°33'09 | 20°57 | 22°17 | 1♐13 | 1°49 | 13°12 | 29°59 | 12°25 | 23°34 | 19°41 | 20°14 | 19°24 | 18°15 | n.a. | M27 |
| T 28 | 2 14 50 | 2°34'02 | 3♎44 | 22°42 | 2°27 | 2°29 | 13°25 | 0♎ 6 | 12°22 | 23°33 | 19°40 | 20°15 | 19°21 | 18°22 | n.a. | T 28 |
| W29 | 2 18 46 | 3°34'57 | 16°18 | 22°59 | 3°41 | 3° 9 | 13°37 | 0°13 | 12°20 | 23°31 | 19°39 | 20°R16 | 19°17 | 18°29 | n.a. | W29 |
| T 30 | 2 22 43 | 4°35'53 | 28°41 | 23°R 7 | 4°56 | 3°49 | 13°49 | 0°19 | 12°18 | 23°30 | 19°38 | 20°15 | 19°14 | 18°35 | n.a. | T 30 |
| F 31 | 2 26 39 | 5♏36'50 | 10♏54 | 23♏ 5 | 6♐10 | 4♎30 | 14♐ 2 | 0♎25 | 12♈16 | 23♉28 | 19♉37 | 20♈15 | 19♈11 | 18♐42 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| W 1 | 2s 8 | 1s54 | 1n10 | 9s45 | 1s23 | 11s22 | 0s 7 | 7n 6 | 1n 4 | 21s56 | 0n 1 | 3n19 | 2n18 | 4n48 | 0s38 | 17n24 | 1s40 | 8n32 | 9s47 | 7n58 | 8n12 | 27s 4 | | | n.a. |
| T 2 | 2 32 | 7 55 | 0 1 | 10 24 | 1 29 | 11 51 | 0 10 | 6 50 | 1 3 | 21 58 | 0 1 | 3 16 | 2 18 | 4 47 | 0 38 | 17 24 | 1 40 | 8 32 | 9 47 | 7 58 | 8 11 | 27 5 | | | n.a. |
| F 3 | 2 56 | 13 32 | 1s 8 | 11 2 | 1 35 | 12 20 | 0 12 | 6 35 | 1 3 | 22 0 | 0 1 | 3 13 | 2 18 | 4 46 | 0 38 | 17 23 | 1 40 | 8 32 | 9 47 | 7 58 | 8 9 | 27 6 | | | n.a. |
| S 4 | 3 21 | 18 31 | 2 12 | 11 40 | 1 41 | 12 48 | 0 15 | 6 19 | 1 3 | 22 1 | 0 1 | 3 10 | 2 18 | 4 45 | 0 38 | 17 23 | 1 40 | 8 31 | 9 47 | 7 59 | 8 8 | 27 8 | | | n.a. |
| S 5 | 3 45 | 22 42 | 3 9 | 12 17 | 1 47 | 13 16 | 0 18 | 6 3 | 1 3 | 22 3 | 0 1 | 3 7 | 2 18 | 4 44 | 0 38 | 17 23 | 1 40 | 8 31 | 9 47 | 7 59 | 8 7 | 27 9 | | | n.a. |
| M 6 | 4 8 | 25 54 | 3 57 | 12 53 | 1 52 | 13 44 | 0 21 | 5 47 | 1 3 | 22 5 | 0 1 | 3 4 | 2 18 | 4 43 | 0 38 | 17 23 | 1 40 | 8 31 | 9 47 | 7 59 | 8 6 | 27 10 | | | n.a. |
| T 7 | 4 32 | 27 56 | 4 35 | 13 28 | 1 58 | 14 12 | 0 23 | 5 32 | 1 2 | 22 6 | 0 1 | 3 2 | 2 18 | 4 42 | 0 38 | 17 22 | 1 40 | 8 30 | 9 47 | 8 0 | 8 5 | 27 11 | | | n.a. |
| W 8 | 4 56 | 28 43 | 5 2 | 14 3 | 2 3 | 14 39 | 0 26 | 5 16 | 1 2 | 22 8 | 0 1 | 2 59 | 2 18 | 4 41 | 0 38 | 17 22 | 1 40 | 8 30 | 9 48 | 8 0 | 8 3 | 27 12 | | | n.a. |
| T 9 | 5 20 | 28 9 | 5 15 | 14 37 | 2 8 | 15 6 | 0 29 | 5 0 | 1 2 | 22 10 | 0 1 | 2 56 | 2 18 | 4 40 | 0 38 | 17 22 | 1 40 | 8 30 | 9 48 | 8 0 | 8 2 | 27 14 | | | n.a. |
| F 10 | 5 44 | 26 16 | 5 15 | 15 9 | 2 12 | 15 32 | 0 31 | 4 44 | 1 2 | 22 11 | 0 0 | 2 53 | 2 18 | 4 39 | 0 38 | 17 21 | 1 40 | 8 29 | 9 48 | 8 0 | 8 1 | 27 15 | | | n.a. |
| S 11 | 6 7 | 23 6 | 5 1 | 15 41 | 2 17 | 15 58 | 0 34 | 4 28 | 1 1 | 22 13 | 0 0 | 2 51 | 2 19 | 4 38 | 0 38 | 17 21 | 1 40 | 8 29 | 9 48 | 8 0 | 8 0 | 27 16 | | | n.a. |
| S 12 | 6 31 | 18 47 | 4 31 | 16 12 | 2 21 | 16 24 | 0 37 | 4 12 | 1 1 | 22 15 | 0 0 | 2 48 | 2 19 | 4 37 | 0 38 | 17 21 | 1 40 | 8 29 | 9 48 | 8 0 | 7 59 | 27 17 | | | n.a. |
| M13 | 6 54 | 13 30 | 3 48 | 16 41 | 2 24 | 16 49 | 0 40 | 3 56 | 1 1 | 22 16 | 0 0 | 2 45 | 2 19 | 4 36 | 0 38 | 17 20 | 1 40 | 8 28 | 9 48 | 7 59 | 7 57 | 27 18 | | | n.a. |
| T 14 | 7 18 | 7 26 | 2 50 | 17 10 | 2 28 | 17 14 | 0 42 | 3 40 | 1 1 | 22 18 | 0s 0 | 2 42 | 2 19 | 4 35 | 0 38 | 17 20 | 1 40 | 8 28 | 9 48 | 7 59 | 7 56 | 27 20 | | | n.a. |
| W15 | 7 41 | 0 51 | 1 41 | 17 37 | 2 31 | 17 38 | 0 45 | 3 24 | 1 1 | 22 20 | 0 0 | 2 40 | 2 19 | 4 34 | 0 38 | 17 20 | 1 40 | 8 28 | 9 48 | 7 59 | 7 55 | 27 21 | | | n.a. |
| T 16 | 8 4 | 5n57 | 0 24 | 18 3 | 2 33 | 18 2 | 0 48 | 3 7 | 1 0 | 22 21 | 0 0 | 2 37 | 2 19 | 4 33 | 0 38 | 17 19 | 1 41 | 8 27 | 9 48 | 7 59 | 7 54 | 27 22 | | | n.a. |
| F 17 | 8 27 | 12 36 | 0n56 | 18 27 | 2 35 | 18 26 | 0 50 | 2 51 | 1 0 | 22 23 | 0 0 | 2 34 | 2 19 | 4 32 | 0 38 | 17 19 | 1 41 | 8 27 | 9 48 | 7 59 | 7 53 | 27 23 | | | n.a. |
| S 18 | 8 50 | 18 38 | 2 13 | 18 50 | 2 37 | 18 49 | 0 53 | 2 35 | 1 0 | 22 25 | 0 1 | 2 32 | 2 19 | 4 31 | 0 38 | 17 18 | 1 41 | 8 27 | 9 48 | 7 59 | 7 51 | 27 24 | | | n.a. |
| S 19 | 9 12 | 23 36 | 3 22 | 19 11 | 2 38 | 19 11 | 0 55 | 2 19 | 1 0 | 22 27 | 0 1 | 2 29 | 2 19 | 4 30 | 0 38 | 17 18 | 1 41 | 8 26 | 9 48 | 7 59 | 7 50 | 27 25 | | | n.a. |
| M20 | 9 35 | 27 3 | 4 17 | 19 31 | 2 38 | 19 33 | 0 58 | 2 3 | 0 59 | 22 28 | 0 1 | 2 26 | 2 19 | 4 30 | 0 38 | 17 18 | 1 41 | 8 26 | 9 48 | 7 59 | 7 49 | 27 27 | | | n.a. |
| T 21 | 9 57 | 28 38 | 4 56 | 19 48 | 2 38 | 19 54 | 1 0 | 1 46 | 0 59 | 22 30 | 0 1 | 2 24 | 2 19 | 4 29 | 0 37 | 17 17 | 1 41 | 8 26 | 9 48 | 7 59 | 7 48 | 27 28 | | | n.a. |
| W22 | 10 20 | 28 15 | 5 15 | 20 4 | 2 36 | 20 15 | 1 3 | 1 30 | 0 59 | 22 32 | 0 1 | 2 21 | 2 20 | 4 28 | 0 37 | 17 17 | 1 41 | 8 26 | 9 48 | 7 59 | 7 46 | 27 29 | | | n.a. |
| T 23 | 10 42 | 26 3 | 5 15 | 20 17 | 2 34 | 20 36 | 1 5 | 1 14 | 0 58 | 22 33 | 0 1 | 2 19 | 2 20 | 4 27 | 0 37 | 17 17 | 1 41 | 8 25 | 9 49 | 7 59 | 7 45 | 27 30 | | | n.a. |
| F 24 | 11 4 | 22 21 | 4 56 | 20 28 | 2 31 | 20 55 | 1 8 | 0 58 | 0 58 | 22 35 | 0 1 | 2 16 | 2 20 | 4 26 | 0 37 | 17 16 | 1 41 | 8 25 | 9 49 | 7 59 | 7 44 | 27 31 | | | n.a. |
| S 25 | 11 26 | 17 32 | 4 22 | 20 36 | 2 28 | 21 15 | 1 10 | 0 41 | 0 58 | 22 37 | 0 1 | 2 14 | 2 20 | 4 25 | 0 37 | 17 16 | 1 41 | 8 25 | 9 49 | 7 59 | 7 43 | 27 32 | | | n.a. |
| S 26 | 11 47 | 11 58 | 3 34 | 20 42 | 2 23 | 21 33 | 1 13 | 0 25 | 0 58 | 22 38 | 0 1 | 2 11 | 2 20 | 4 24 | 0 37 | 17 15 | 1 41 | 8 24 | 9 49 | 7 59 | 7 42 | 27 33 | | | n.a. |
| M27 | 12 9 | 6 0 | 2 35 | 20 44 | 2 16 | 21 51 | 1 15 | 0 9 | 0 57 | 22 40 | 0 1 | 2 9 | 2 20 | 4 23 | 0 37 | 17 15 | 1 41 | 8 24 | 9 49 | 8 0 | 7 40 | 27 34 | | | n.a. |
| T 28 | 12 30 | 0s 7 | 1 30 | 20 44 | 2 9 | 22 9 | 1 17 | 0s 8 | 0 57 | 22 41 | 0 2 | 2 6 | 2 20 | 4 22 | 0 37 | 17 15 | 1 41 | 8 24 | 9 49 | 8 0 | 7 39 | 27 35 | | | n.a. |
| W29 | 12 51 | 6 8 | 0 22 | 20 40 | 2 0 | 22 26 | 1 19 | 0 24 | 0 57 | 22 43 | 0 2 | 2 4 | 2 20 | 4 21 | 0 37 | 17 14 | 1 41 | 8 23 | 9 49 | 8 0 | 7 38 | 27 36 | | | n.a. |
| T 30 | 13 12 | 11 51 | 0s46 | 20 32 | 1 50 | 22 42 | 1 22 | 0 41 | 0 56 | 22 45 | 0 2 | 2 1 | 2 21 | 4 20 | 0 37 | 17 14 | 1 41 | 8 23 | 9 49 | 8 0 | 7 37 | 27 37 | | | n.a. |
| F 31 | 13s32 | 17s 2 | 1s52 | 20s20 | 1s38 | 22s57 | 1s24 | 0s57 | 0n56 | 22s46 | 0s 2 | 1n59 | 2n21 | 4n20 | 0s37 | 17n13 | 1s41 | 8n23 | 9s49 | 8n 0 | 7n36 | 27s38 | | | n.a. |

Julian Day Number = 1692111.5, Delta T = 03h09m56s
Ecliptic obliquity = 23°42'26, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°10'21, Lahiri = - 5°03'21 Julian Calendar 1 Oct. 81 BCE == Greg. Calendar 29 Sept. 081 BCE

The year -80 astronomical counting style corresponds to year 081 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 81 BCE
# geocentric

## NOVEMBER 81 BCE (-80) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 30 36 | 6♏37'49 | 22♏58 | 22°R54 | 7♐24 | 5♎10 | 14♐14 | 0♎32 | 12°R13 | 23°R26 | 19°R35 | 20°R13 | 19♈ 8 | 18♐49 | n.a. | S 1 |
| S 2 | 2 34 32 | 7°38'48 | 4♐56 | 22♏31 | 8°38 | 5°50 | 14°27 | 0°38 | 12♈11 | 23♉25 | 19♉34 | 20♈10 | 19° 5 | 18°55 | n.a. | S 2 |
| M 3 | 2 38 29 | 8°39'49 | 16°48 | 21°57 | 9°52 | 6°30 | 14°39 | 0°44 | 12° 9 | 23°23 | 19°33 | 20° 7 | 19° 2 | 19° 2 | n.a. | M 3 |
| T 4 | 2 42 26 | 9°40'51 | 28°39 | 21°12 | 11° 6 | 7°10 | 14°52 | 0°50 | 12° 7 | 23°22 | 19°32 | 20° 4 | 18°58 | 19° 9 | n.a. | T 4 |
| W 5 | 2 46 22 | 10°41'54 | 10♑29 | 20°17 | 12°19 | 7°50 | 15° 4 | 0°56 | 12° 5 | 23°20 | 19°31 | 20° 1 | 18°55 | 19°16 | n.a. | W 5 |
| T 6 | 2 50 19 | 11°42'57 | 22°25 | 19°12 | 13°33 | 8°31 | 15°17 | 1° 3 | 12° 3 | 23°18 | 19°30 | 19°58 | 18°52 | 19°22 | n.a. | T 6 |
| F 7 | 2 54 15 | 12°44'01 | 4♒29 | 17°59 | 14°47 | 9°11 | 15°30 | 1° 9 | 12° 1 | 23°17 | 19°29 | 19°57 | 18°49 | 19°29 | n.a. | F 7 |
| S 8 | 2 58 12 | 13°45'06 | 16°45 | 16°40 | 16° 1 | 9°51 | 15°43 | 1°15 | 11°59 | 23°15 | 19°27 | 19°D57 | 18°46 | 19°36 | n.a. | S 8 |
| S 9 | 3 2 8 | 14°46'11 | 29°20 | 15°18 | 17°15 | 10°31 | 15°56 | 1°20 | 11°57 | 23°13 | 19°26 | 19°58 | 18°42 | 19°42 | n.a. | S 9 |
| M10 | 3 6 5 | 15°47'17 | 12♓16 | 13°55 | 18°29 | 11°12 | 16° 9 | 1°26 | 11°55 | 23°12 | 19°25 | 19°59 | 18°39 | 19°49 | n.a. | M10 |
| T 11 | 3 10 1 | 16°48'23 | 25°38 | 12°34 | 19°42 | 11°52 | 16°22 | 1°32 | 11°53 | 23°10 | 19°24 | 20° 1 | 18°36 | 19°56 | n.a. | T 11 |
| W12 | 3 13 58 | 17°49'30 | 9♈28 | 11°19 | 20°56 | 12°32 | 16°35 | 1°38 | 11°51 | 23° 8 | 19°23 | 20° 2 | 18°33 | 20° 3 | n.a. | W12 |
| T 13 | 3 17 55 | 18°50'37 | 23°44 | 10°10 | 22°10 | 13°13 | 16°48 | 1°44 | 11°49 | 23° 6 | 19°22 | 20°R 2 | 18°30 | 20° 9 | n.a. | T 13 |
| F 14 | 3 21 51 | 19°51'45 | 8♉24 | 9°10 | 23°24 | 13°53 | 17° 2 | 1°49 | 11°47 | 23° 5 | 19°20 | 20° 1 | 18°27 | 20°16 | n.a. | F 14 |
| S 15 | 3 25 48 | 20°52'54 | 23°23 | 8°21 | 24°37 | 14°33 | 17°15 | 1°55 | 11°46 | 23° 3 | 19°19 | 19°58 | 18°23 | 20°23 | n.a. | S 15 |
| S 16 | 3 29 44 | 21°54'04 | 8♊31 | 7°42 | 25°51 | 15°14 | 17°28 | 2° 0 | 11°44 | 23° 1 | 19°18 | 19°54 | 18°20 | 20°29 | n.a. | S 16 |
| M17 | 3 33 41 | 22°55'14 | 23°39 | 7°14 | 27° 4 | 15°54 | 17°42 | 2° 6 | 11°42 | 23° 0 | 19°17 | 19°50 | 18°17 | 20°36 | n.a. | M17 |
| T 18 | 3 37 37 | 23°56'25 | 8♋38 | 6°58 | 28°18 | 16°35 | 17°55 | 2°11 | 11°40 | 22°58 | 19°16 | 19°44 | 18°14 | 20°43 | n.a. | T 18 |
| W19 | 3 41 34 | 24°57'37 | 23°18 | 6°D52 | 29°31 | 17°15 | 18° 8 | 2°16 | 11°39 | 22°56 | 19°15 | 19°40 | 18°11 | 20°49 | n.a. | W19 |
| T 20 | 3 45 31 | 25°58'49 | 7♌35 | 6°56 | 0♑45 | 17°56 | 18°22 | 2°22 | 11°37 | 22°54 | 19°14 | 19°37 | 18° 8 | 20°56 | n.a. | T 20 |
| F 21 | 3 49 27 | 27° 0'02 | 21°28 | 7° 9 | 1°58 | 18°37 | 18°35 | 2°27 | 11°36 | 22°53 | 19°12 | 19°D35 | 18° 4 | 21° 3 | n.a. | F 21 |
| S 22 | 3 53 24 | 28° 1'16 | 4♍55 | 7°31 | 3°12 | 19°17 | 18°49 | 2°32 | 11°34 | 22°51 | 19°11 | 19°35 | 18° 1 | 21°10 | n.a. | S 22 |
| S 23 | 3 57 20 | 29° 2'31 | 18° 1 | 8° 0 | 4°25 | 19°58 | 19° 3 | 2°37 | 11°33 | 22°49 | 19°10 | 19°37 | 17°58 | 21°16 | n.a. | S 23 |
| M24 | 4 1 17 | 0♐ 3'46 | 0♎46 | 8°36 | 5°38 | 20°38 | 19°16 | 2°42 | 11°31 | 22°48 | 19° 9 | 19°38 | 17°55 | 21°23 | n.a. | M24 |
| T 25 | 4 5 13 | 1° 5'01 | 13°16 | 9°18 | 6°51 | 21°19 | 19°30 | 2°47 | 11°30 | 22°46 | 19° 8 | 19°40 | 17°52 | 21°30 | n.a. | T 25 |
| W26 | 4 9 10 | 2° 6'17 | 25°34 | 10° 6 | 8° 5 | 22° 0 | 19°44 | 2°51 | 11°29 | 22°44 | 19° 7 | 19°R40 | 17°48 | 21°36 | n.a. | W26 |
| T 27 | 4 13 6 | 3° 7'34 | 7♏42 | 10°58 | 9°18 | 22°41 | 19°57 | 2°56 | 11°27 | 22°43 | 19° 5 | 19°38 | 17°45 | 21°43 | n.a. | T 27 |
| F 28 | 4 17 3 | 4° 8'51 | 19°43 | 11°55 | 10°31 | 23°21 | 20°11 | 3° 1 | 11°26 | 22°41 | 19° 4 | 19°34 | 17°42 | 21°50 | n.a. | F 28 |
| S 29 | 4 21 0 | 5°10'08 | 1♐40 | 12°55 | 11°44 | 24° 2 | 20°25 | 3° 5 | 11°25 | 22°39 | 19° 3 | 19°27 | 17°39 | 21°57 | n.a. | S 29 |
| S 30 | 4 24 56 | 6♐11'25 | 13♐33 | 13♏59 | 12♑57 | 24♎43 | 20♐39 | 3♎10 | 11♈24 | 22♉38 | 19♉ 2 | 19♈19 | 17♈36 | 22♐ 3 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 13 s53 | 21 s29 | 2 s51 | 20 s 4 | 1 s25 | 23 s12 | 1 s26 | 1 s13 | 0n56 | 22 s48 | 0 s 2 | 1n56 | 2n21 | 4n19 | 0 s37 | 17n13 | 1 s41 | 8n22 | 9 s49 | 7n59 | 7n34 | 27 s39 | | n.a. |
| S 2 | 14 13 | 25 0 | 3 42 | 19 44 | 1 10 | 23 26 | 1 28 | 1 30 | 0 55 | 22 49 | 0 2 | 1 54 | 2 21 | 4 18 | 0 37 | 17 13 | 1 41 | 8 22 | 9 49 | 7 58 | 7 33 | 27 41 | | n.a. |
| M 3 | 14 33 | 27 25 | 4 23 | 19 19 | 0 53 | 23 40 | 1 30 | 1 46 | 0 55 | 22 51 | 0 2 | 1 52 | 2 21 | 4 17 | 0 37 | 17 12 | 1 41 | 8 22 | 9 49 | 7 57 | 7 32 | 27 42 | | n.a. |
| T 4 | 14 53 | 28 35 | 4 53 | 18 50 | 0 35 | 23 52 | 1 32 | 2 2 | 0 55 | 22 53 | 0 2 | 1 49 | 2 21 | 4 16 | 0 37 | 17 12 | 1 41 | 8 22 | 9 49 | 7 56 | 7 31 | 27 43 | | n.a. |
| W 5 | 15 12 | 28 26 | 5 10 | 18 17 | 0 16 | 24 5 | 1 34 | 2 19 | 0 54 | 22 54 | 0 2 | 1 47 | 2 22 | 4 15 | 0 37 | 17 11 | 1 41 | 8 21 | 9 49 | 7 55 | 7 29 | 27 44 | | n.a. |
| T 6 | 15 31 | 26 59 | 5 14 | 17 40 | 0n 4 | 24 16 | 1 36 | 2 35 | 0 54 | 22 56 | 0 3 | 1 45 | 2 22 | 4 15 | 0 37 | 17 11 | 1 41 | 8 21 | 9 49 | 7 54 | 7 28 | 27 45 | | n.a. |
| F 7 | 15 50 | 24 17 | 5 5 | 17 0 | 0 24 | 24 27 | 1 38 | 2 51 | 0 54 | 22 57 | 0 3 | 1 42 | 2 22 | 4 14 | 0 37 | 17 10 | 1 41 | 8 21 | 9 49 | 7 53 | 7 27 | 27 46 | | n.a. |
| S 8 | 16 9 | 20 27 | 4 41 | 16 18 | 0 45 | 24 37 | 1 39 | 3 8 | 0 53 | 22 59 | 0 3 | 1 40 | 2 22 | 4 13 | 0 37 | 17 10 | 1 41 | 8 20 | 9 49 | 7 53 | 7 26 | 27 47 | | n.a. |
| S 9 | 16 27 | 15 38 | 4 3 | 15 34 | 1 5 | 24 46 | 1 41 | 3 24 | 0 53 | 23 0 | 0 3 | 1 38 | 2 22 | 4 12 | 0 37 | 17 10 | 1 41 | 8 20 | 9 49 | 7 53 | 7 25 | 27 47 | | n.a. |
| M10 | 16 45 | 10 0 | 3 13 | 14 52 | 1 24 | 24 54 | 1 43 | 3 40 | 0 53 | 23 2 | 0 3 | 1 36 | 2 22 | 4 12 | 0 37 | 17 9 | 1 41 | 8 20 | 9 49 | 7 54 | 7 23 | 27 48 | | n.a. |
| T 11 | 17 3 | 3 44 | 2 10 | 14 10 | 1 42 | 25 2 | 1 44 | 3 56 | 0 52 | 23 3 | 0 3 | 1 33 | 2 23 | 4 11 | 0 37 | 17 9 | 1 41 | 8 20 | 9 49 | 7 55 | 7 22 | 27 49 | | n.a. |
| W12 | 17 20 | 2n54 | 0 58 | 13 32 | 1 58 | 25 9 | 1 46 | 4 13 | 0 52 | 23 5 | 0 3 | 1 31 | 2 23 | 4 10 | 0 37 | 17 8 | 1 41 | 8 19 | 9 49 | 7 55 | 7 21 | 27 50 | | n.a. |
| T 13 | 17 37 | 9 38 | 0n20 | 12 57 | 2 12 | 25 15 | 1 47 | 4 29 | 0 52 | 23 6 | 0 3 | 1 29 | 2 23 | 4 9 | 0 37 | 17 8 | 1 41 | 8 19 | 9 49 | 7 55 | 7 20 | 27 51 | | n.a. |
| F 14 | 17 54 | 16 1 | 1 39 | 12 27 | 2 24 | 25 21 | 1 48 | 4 45 | 0 51 | 23 7 | 0 3 | 1 27 | 2 23 | 4 9 | 0 37 | 17 7 | 1 41 | 8 19 | 9 49 | 7 55 | 7 18 | 27 52 | | n.a. |
| S 15 | 18 11 | 21 36 | 2 52 | 12 2 | 2 33 | 25 25 | 1 50 | 5 1 | 0 51 | 23 9 | 0 3 | 1 25 | 2 23 | 4 8 | 0 37 | 17 7 | 1 41 | 8 18 | 9 48 | 7 54 | 7 17 | 27 53 | | n.a. |
| S 16 | 18 27 | 25 50 | 3 54 | 11 42 | 2 41 | 25 29 | 1 51 | 5 17 | 0 50 | 23 10 | 0 4 | 1 23 | 2 23 | 4 7 | 0 37 | 17 7 | 1 41 | 8 18 | 9 48 | 7 52 | 7 16 | 27 54 | | n.a. |
| M17 | 18 43 | 28 13 | 4 40 | 11 28 | 2 46 | 25 33 | 1 52 | 5 33 | 0 50 | 23 11 | 0 4 | 1 21 | 2 24 | 4 7 | 0 37 | 17 6 | 1 41 | 8 18 | 9 48 | 7 50 | 7 15 | 27 55 | | n.a. |
| T 18 | 18 58 | 28 30 | 5 6 | 11 20 | 2 49 | 25 35 | 1 53 | 5 50 | 0 50 | 23 13 | 0 4 | 1 19 | 2 24 | 4 6 | 0 37 | 17 6 | 1 41 | 8 18 | 9 48 | 7 48 | 7 14 | 27 56 | | n.a. |
| W19 | 19 13 | 26 46 | 5 11 | 11 16 | 2 51 | 25 37 | 1 54 | 6 6 | 0 49 | 23 14 | 0 4 | 1 17 | 2 24 | 4 5 | 0 37 | 17 5 | 1 41 | 8 17 | 9 48 | 7 47 | 7 12 | 27 57 | | n.a. |
| T 20 | 19 28 | 23 21 | 4 56 | 11 17 | 2 51 | 25 37 | 1 55 | 6 22 | 0 49 | 23 15 | 0 4 | 1 15 | 2 24 | 4 5 | 0 37 | 17 5 | 1 41 | 8 17 | 9 48 | 7 45 | 7 11 | 27 58 | | n.a. |
| F 21 | 19 42 | 18 40 | 4 25 | 11 23 | 2 50 | 25 37 | 1 56 | 6 38 | 0 48 | 23 17 | 0 4 | 1 13 | 2 24 | 4 4 | 0 37 | 17 4 | 1 41 | 8 17 | 9 48 | 7 45 | 7 10 | 27 59 | | n.a. |
| S 22 | 19 56 | 13 12 | 3 39 | 11 32 | 2 47 | 25 37 | 1 57 | 6 53 | 0 48 | 23 18 | 0 4 | 1 11 | 2 25 | 4 4 | 0 37 | 17 4 | 1 41 | 8 17 | 9 48 | 7 45 | 7 9 | 27 59 | | n.a. |
| S 23 | 20 10 | 7 18 | 2 43 | 11 45 | 2 44 | 25 35 | 1 57 | 7 9 | 0 48 | 23 19 | 0 4 | 1 10 | 2 25 | 4 3 | 0 37 | 17 4 | 1 41 | 8 17 | 9 48 | 7 45 | 7 7 | 28 0 | | n.a. |
| M24 | 20 23 | 1 14 | 1 41 | 12 1 | 2 39 | 25 33 | 1 58 | 7 25 | 0 47 | 23 20 | 0 4 | 1 8 | 2 25 | 4 3 | 0 37 | 17 3 | 1 41 | 8 16 | 9 48 | 7 46 | 7 6 | 28 1 | | n.a. |
| T 25 | 20 36 | 4 s46 | 0 35 | 12 19 | 2 34 | 25 30 | 1 58 | 7 41 | 0 47 | 23 22 | 0 5 | 1 6 | 2 25 | 4 2 | 0 37 | 17 3 | 1 41 | 8 16 | 9 48 | 7 46 | 7 5 | 28 2 | | n.a. |
| W26 | 20 49 | 10 29 | 0 s32 | 12 39 | 2 29 | 25 26 | 1 59 | 7 57 | 0 46 | 23 23 | 0 5 | 1 4 | 2 25 | 4 2 | 0 37 | 17 2 | 1 41 | 8 16 | 9 48 | 7 46 | 7 4 | 28 3 | | n.a. |
| T 27 | 21 1 | 15 45 | 1 36 | 13 2 | 2 23 | 25 22 | 1 59 | 8 13 | 0 46 | 23 24 | 0 5 | 1 3 | 2 26 | 4 1 | 0 37 | 17 2 | 1 41 | 8 16 | 9 48 | 7 46 | 7 3 | 28 4 | | n.a. |
| F 28 | 21 13 | 20 21 | 2 35 | 13 26 | 2 16 | 25 16 | 2 0 | 8 28 | 0 45 | 23 25 | 0 5 | 1 1 | 2 26 | 4 1 | 0 37 | 17 2 | 1 41 | 8 15 | 9 48 | 7 44 | 7 1 | 28 4 | | n.a. |
| S 29 | 21 24 | 24 6 | 3 27 | 13 51 | 2 9 | 25 10 | 2 0 | 8 44 | 0 45 | 23 26 | 0 5 | 0 59 | 2 26 | 4 0 | 0 37 | 17 1 | 1 41 | 8 15 | 9 47 | 7 42 | 7 0 | 28 5 | | n.a. |
| S 30 | 21 s35 | 26 s48 | 4 s 9 | 14 s17 | 2n 2 | 25 s 3 | 2 s 0 | 8 s59 | 0n44 | 23 s27 | 0 s 5 | 0n58 | 2n26 | 4n 0 | 0 s37 | 17n 1 | 1 s41 | 8n15 | 9 s47 | 7n38 | 6n59 | 28 s 6 | | n.a. |

Julian Day Number = 1692142.5, Delta T = 03h09m55s
Ecliptic obliquity = 23°42'26, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°10'17, Lahiri = - 5°03'16 Julian Calendar 1 Nov. 81 BCE == Greg. Calendar 30 Oct. 081 BCE

The year -80 astronomical counting style corresponds to year 081 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 81 BCE
# geocentric

## DECEMBER 81 BCE (-80) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 4 28 53 | 7♐12'42 | 25♐24 | 15♏ 5 | 14♑10 | 25♎24 | 20♐53 | 3♎14 | 11°R23 | 22°R36 | 19°R 1 | 19°R 9 | 17♈33 | 22♐10 | n.a. | M 1 |
| T 2 | 4 32 49 | 8°13'59 | 7♑15 | 16°14 | 15°23 | 26° 4 | 21° 7 | 3°19 | 11♈21 | 22♉34 | 19♉ 0 | 18♈59 | 17°29 | 22°17 | n.a. | T 2 |
| W 3 | 4 36 46 | 9°15'16 | 19° 8 | 17°26 | 16°36 | 26°45 | 21°21 | 3°23 | 11°20 | 22°33 | 18°59 | 18°49 | 17°26 | 22°23 | n.a. | W 3 |
| T 4 | 4 40 42 | 10°16'33 | 1♒ 5 | 18°39 | 17°49 | 27°26 | 21°35 | 3°27 | 11°20 | 22°31 | 18°58 | 18°41 | 17°23 | 22°30 | n.a. | T 4 |
| F 5 | 4 44 39 | 11°17'49 | 13° 9 | 19°55 | 19° 1 | 28° 7 | 21°49 | 3°31 | 11°19 | 22°30 | 18°57 | 18°34 | 17°20 | 22°37 | n.a. | F 5 |
| S 6 | 4 48 35 | 12°19'05 | 25°23 | 21°12 | 20°14 | 28°48 | 22° 2 | 3°35 | 11°18 | 22°28 | 18°56 | 18°30 | 17°17 | 22°44 | n.a. | S 6 |
| S 7 | 4 52 32 | 13°20'21 | 7♓52 | 22°30 | 21°27 | 29°29 | 22°16 | 3°39 | 11°17 | 22°26 | 18°55 | 18°D29 | 17°14 | 22°50 | n.a. | S 7 |
| M 8 | 4 56 29 | 14°21'36 | 20°40 | 23°50 | 22°39 | 0♏10 | 22°30 | 3°43 | 11°16 | 22°25 | 18°54 | 18°29 | 17°10 | 22°57 | n.a. | M 8 |
| T 9 | 5 0 25 | 15°22'50 | 3♈52 | 25°11 | 23°52 | 0°51 | 22°45 | 3°47 | 11°15 | 22°23 | 18°52 | 18°30 | 17° 7 | 23° 4 | n.a. | T 9 |
| W10 | 5 4 22 | 16°24'04 | 17°31 | 26°33 | 25° 4 | 1°32 | 22°59 | 3°51 | 11°15 | 22°22 | 18°51 | 18°R30 | 17° 4 | 23°10 | n.a. | W10 |
| T 11 | 5 8 18 | 17°25'17 | 1♉38 | 27°56 | 26°16 | 2°13 | 23°13 | 3°54 | 11°14 | 22°20 | 18°50 | 18°29 | 17° 1 | 23°17 | n.a. | T 11 |
| F 12 | 5 12 15 | 18°26'29 | 16°14 | 29°20 | 27°29 | 2°54 | 23°27 | 3°58 | 11°14 | 22°19 | 18°49 | 18°26 | 16°58 | 23°24 | n.a. | F 12 |
| S 13 | 5 16 11 | 19°27'41 | 1♊14 | 0♐44 | 28°41 | 3°35 | 23°41 | 4° 1 | 11°13 | 22°17 | 18°48 | 18°21 | 16°54 | 23°31 | n.a. | S 13 |
| S 14 | 5 20 8 | 20°28'53 | 16°30 | 2°10 | 29°53 | 4°16 | 23°55 | 4° 4 | 11°13 | 22°16 | 18°47 | 18°13 | 16°51 | 23°37 | n.a. | S 14 |
| M15 | 5 24 5 | 21°30'04 | 1♋52 | 3°36 | 1♒ 5 | 4°57 | 24° 9 | 4° 8 | 11°12 | 22°14 | 18°47 | 18° 3 | 16°48 | 23°44 | n.a. | M15 |
| T 16 | 5 28 1 | 22°31'14 | 17° 9 | 5° 3 | 2°17 | 5°38 | 24°23 | 4°11 | 11°12 | 22°13 | 18°46 | 17°53 | 16°45 | 23°51 | n.a. | T 16 |
| W17 | 5 31 58 | 23°32'24 | 2♌ 8 | 6°31 | 3°29 | 6°20 | 24°37 | 4°14 | 11°12 | 22°11 | 18°45 | 17°44 | 16°42 | 23°57 | n.a. | W17 |
| T 18 | 5 35 54 | 24°33'34 | 16°42 | 7°59 | 4°40 | 7° 1 | 24°51 | 4°17 | 11°11 | 22°10 | 18°44 | 17°36 | 16°39 | 24° 4 | n.a. | T 18 |
| F 19 | 5 39 51 | 25°34'43 | 0♍48 | 9°28 | 5°52 | 7°42 | 25° 5 | 4°20 | 11°11 | 22° 9 | 18°43 | 17°31 | 16°35 | 24°11 | n.a. | F 19 |
| S 20 | 5 43 47 | 26°35'52 | 14°23 | 10°58 | 7° 3 | 8°23 | 25°19 | 4°22 | 11°11 | 22° 7 | 18°42 | 17°29 | 16°32 | 24°18 | n.a. | S 20 |
| S 21 | 5 47 44 | 27°37'00 | 27°30 | 12°28 | 8°15 | 9° 4 | 25°34 | 4°25 | 11°11 | 22° 6 | 18°41 | 17°D28 | 16°29 | 24°24 | n.a. | S 21 |
| M22 | 5 51 40 | 28°38'07 | 10♎14 | 13°59 | 9°26 | 9°46 | 25°48 | 4°28 | 11°D11 | 22° 5 | 18°40 | 17°28 | 16°26 | 24°31 | n.a. | M22 |
| T 23 | 5 55 37 | 29°39'14 | 22°38 | 15°31 | 10°37 | 10°27 | 26° 2 | 4°30 | 11°11 | 22° 3 | 18°39 | 17°R28 | 16°23 | 24°38 | n.a. | T 23 |
| W24 | 5 59 34 | 0♑40'21 | 4♏48 | 17° 3 | 11°49 | 11° 8 | 26°16 | 4°32 | 11°11 | 22° 2 | 18°38 | 17°27 | 16°20 | 24°44 | n.a. | W24 |
| T 25 | 6 3 30 | 1°41'27 | 16°48 | 18°35 | 13° 0 | 11°50 | 26°30 | 4°35 | 11°11 | 22° 1 | 18°38 | 17°23 | 16°16 | 24°51 | n.a. | T 25 |
| F 26 | 6 7 27 | 2°42'32 | 28°42 | 20° 9 | 14°11 | 12°31 | 26°44 | 4°37 | 11°11 | 22° 0 | 18°37 | 17°17 | 16°13 | 24°58 | n.a. | F 26 |
| S 27 | 6 11 23 | 3°43'37 | 10♐33 | 21°43 | 15°21 | 13°12 | 26°58 | 4°39 | 11°11 | 21°58 | 18°36 | 17° 7 | 16°10 | 25° 5 | n.a. | S 27 |
| S 28 | 6 15 20 | 4°44'40 | 22°23 | 23°17 | 16°32 | 13°54 | 27°12 | 4°41 | 11°12 | 21°57 | 18°35 | 16°54 | 16° 7 | 25°11 | n.a. | S 28 |
| M29 | 6 19 16 | 5°45'43 | 4♑15 | 24°52 | 17°43 | 14°35 | 27°26 | 4°43 | 11°12 | 21°56 | 18°35 | 16°40 | 16° 4 | 25°18 | n.a. | M29 |
| T 30 | 6 23 13 | 6°46'44 | 16° 9 | 26°28 | 18°53 | 15°17 | 27°40 | 4°45 | 11°12 | 21°55 | 18°34 | 16°25 | 16° 0 | 25°25 | n.a. | T 30 |
| W31 | 6 27 10 | 7♑47'45 | 28♑ 8 | 28♐ 5 | 20♒ 4 | 15♏58 | 27♐54 | 4♎46 | 11♈13 | 21♉54 | 18♉33 | 16♈10 | 15♈57 | 25♐31 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| M 1 | 21s45 | 28s18 | 4s41 | 14s44 | 1n54 | 24s56 | 2s 0 | 9s15 | 0n44 | 23s28 | 0s 5 | 0n56 | 2n27 | 3n59 | 0s36 | 17n 0 | 1s41 | 8n15 | 9s47 | 7n35 | 6n58 | 28s 7 | | | n.a. |
| T 2 | 21 56 | 28 30 | 5 0 | 15 11 | 1 46 | 24 47 | 2 0 | 9 30 | 0 44 | 23 30 | 0 5 | 0 55 | 2 27 | 3 59 | 0 36 | 17 0 | 1 41 | 8 15 | 9 47 | 7 31 | 6 56 | 28 8 | | | n.a. |
| W 3 | 22 5 | 27 22 | 5 6 | 15 39 | 1 39 | 24 38 | 1 59 | 9 46 | 0 43 | 23 31 | 0 5 | 0 53 | 2 27 | 3 59 | 0 36 | 17 0 | 1 41 | 8 15 | 9 47 | 7 27 | 6 55 | 28 8 | | | n.a. |
| T 4 | 22 14 | 25 0 | 4 59 | 16 7 | 1 31 | 24 29 | 1 59 | 10 1 | 0 43 | 23 32 | 0 5 | 0 52 | 2 27 | 3 58 | 0 36 | 16 59 | 1 41 | 8 14 | 9 47 | 7 24 | 6 54 | 28 9 | | | n.a. |
| F 5 | 22 23 | 21 30 | 4 39 | 16 35 | 1 23 | 24 18 | 1 59 | 10 16 | 0 42 | 23 33 | 0 6 | 0 50 | 2 28 | 3 58 | 0 36 | 16 59 | 1 41 | 8 14 | 9 47 | 7 21 | 6 53 | 28 10 | | | n.a. |
| S 6 | 22 31 | 17 3 | 4 5 | 17 4 | 1 15 | 24 7 | 1 58 | 10 31 | 0 42 | 23 34 | 0 6 | 0 49 | 2 28 | 3 58 | 0 36 | 16 58 | 1 40 | 8 14 | 9 47 | 7 20 | 6 52 | 28 11 | | | n.a. |
| S 7 | 22 39 | 11 48 | 3 20 | 17 32 | 1 7 | 23 55 | 1 58 | 10 46 | 0 41 | 23 34 | 0 6 | 0 47 | 2 28 | 3 57 | 0 36 | 16 58 | 1 40 | 8 14 | 9 46 | 7 19 | 6 50 | 28 12 | | | n.a. |
| M 8 | 22 47 | 5 56 | 2 23 | 18 0 | 0 59 | 23 42 | 1 57 | 11 1 | 0 41 | 23 35 | 0 6 | 0 46 | 2 28 | 3 57 | 0 36 | 16 58 | 1 40 | 8 14 | 9 46 | 7 19 | 6 49 | 28 12 | | | n.a. |
| T 9 | 22 54 | 0n22 | 1 18 | 18 27 | 0 51 | 23 29 | 1 56 | 11 16 | 0 40 | 23 36 | 0 6 | 0 45 | 2 28 | 3 57 | 0 36 | 16 57 | 1 40 | 8 14 | 9 46 | 7 20 | 6 48 | 28 13 | | | n.a. |
| W10 | 23 0 | 6 52 | 0 5 | 18 55 | 0 43 | 23 15 | 1 56 | 11 31 | 0 40 | 23 37 | 0 6 | 0 44 | 2 29 | 3 57 | 0 36 | 16 57 | 1 40 | 8 13 | 9 46 | 7 20 | 6 47 | 28 14 | | | n.a. |
| T 11 | 23 6 | 13 16 | 1n10 | 19 21 | 0 35 | 23 0 | 1 55 | 11 46 | 0 39 | 23 38 | 0 6 | 0 42 | 2 29 | 3 56 | 0 36 | 16 57 | 1 40 | 8 13 | 9 46 | 7 20 | 6 45 | 28 14 | | | n.a. |
| F 12 | 23 12 | 19 9 | 2 22 | 19 48 | 0 27 | 22 45 | 1 54 | 12 1 | 0 38 | 23 39 | 0 6 | 0 41 | 2 29 | 3 56 | 0 36 | 16 56 | 1 40 | 8 13 | 9 46 | 7 18 | 6 44 | 28 15 | | | n.a. |
| S 13 | 23 17 | 24 1 | 3 27 | 20 13 | 0 19 | 22 29 | 1 52 | 12 15 | 0 38 | 23 40 | 0 6 | 0 40 | 2 29 | 3 56 | 0 36 | 16 56 | 1 40 | 8 13 | 9 46 | 7 16 | 6 43 | 28 16 | | | n.a. |
| S 14 | 23 22 | 27 18 | 4 18 | 20 38 | 0 11 | 22 13 | 1 51 | 12 30 | 0 37 | 23 40 | 0 6 | 0 39 | 2 30 | 3 56 | 0 36 | 16 56 | 1 40 | 8 13 | 9 45 | 7 13 | 6 42 | 28 17 | | | n.a. |
| M15 | 23 26 | 28 33 | 4 51 | 21 3 | 0 4 | 21 56 | 1 50 | 12 44 | 0 37 | 23 41 | 0 7 | 0 38 | 2 30 | 3 56 | 0 36 | 16 55 | 1 40 | 8 13 | 9 45 | 7 9 | 6 40 | 28 17 | | | n.a. |
| T 16 | 23 30 | 27 36 | 5 3 | 21 26 | 0s 4 | 21 38 | 1 48 | 12 59 | 0 36 | 23 42 | 0 7 | 0 37 | 2 30 | 3 56 | 0 36 | 16 55 | 1 40 | 8 13 | 9 45 | 7 6 | 6 39 | 28 18 | | | n.a. |
| W17 | 23 33 | 24 40 | 4 54 | 21 49 | 0 11 | 21 20 | 1 47 | 13 13 | 0 36 | 23 43 | 0 7 | 0 36 | 2 31 | 3 56 | 0 36 | 16 55 | 1 40 | 8 13 | 9 45 | 7 2 | 6 38 | 28 19 | | | n.a. |
| T 18 | 23 36 | 20 12 | 4 25 | 22 11 | 0 18 | 21 1 | 1 45 | 13 27 | 0 35 | 23 43 | 0 7 | 0 35 | 2 31 | 3 55 | 0 36 | 16 54 | 1 40 | 8 13 | 9 45 | 6 59 | 6 37 | 28 19 | | | n.a. |
| F 19 | 23 38 | 14 45 | 3 41 | 22 32 | 0 25 | 20 41 | 1 44 | 13 41 | 0 35 | 23 44 | 0 7 | 0 34 | 2 31 | 3 55 | 0 36 | 16 54 | 1 40 | 8 13 | 9 45 | 6 57 | 6 36 | 28 20 | | | n.a. |
| S 20 | 23 40 | 8 46 | 2 46 | 22 52 | 0 32 | 20 21 | 1 42 | 13 55 | 0 34 | 23 45 | 0 7 | 0 33 | 2 31 | 3 55 | 0 36 | 16 54 | 1 40 | 8 13 | 9 44 | 6 56 | 6 34 | 28 21 | | | n.a. |
| S 21 | 23 41 | 2 35 | 1 44 | 23 11 | 0 38 | 20 1 | 1 40 | 14 9 | 0 33 | 23 45 | 0 7 | 0 32 | 2 32 | 3 55 | 0 36 | 16 53 | 1 40 | 8 12 | 9 44 | 6 56 | 6 33 | 28 21 | | | n.a. |
| M22 | 23 42 | 3s30 | 0 38 | 23 29 | 0 45 | 19 40 | 1 38 | 14 23 | 0 33 | 23 46 | 0 7 | 0 32 | 2 32 | 3 55 | 0 36 | 16 53 | 1 40 | 8 12 | 9 44 | 6 56 | 6 32 | 28 22 | | | n.a. |
| T 23 | 23 42 | 9 19 | 0s27 | 23 45 | 0 51 | 19 18 | 1 36 | 14 37 | 0 32 | 23 46 | 0 7 | 0 31 | 2 32 | 3 55 | 0 36 | 16 53 | 1 40 | 8 12 | 9 44 | 6 56 | 6 31 | 28 22 | | | n.a. |
| W24 | 23 42 | 14 41 | 1 31 | 24 1 | 0 57 | 18 56 | 1 33 | 14 50 | 0 32 | 23 47 | 0 8 | 0 30 | 2 32 | 3 56 | 0 36 | 16 52 | 1 40 | 8 12 | 9 44 | 6 55 | 6 29 | 28 23 | | | n.a. |
| T 25 | 23 42 | 19 25 | 2 29 | 24 16 | 1 3 | 18 33 | 1 31 | 15 4 | 0 31 | 23 47 | 0 8 | 0 29 | 2 33 | 3 56 | 0 36 | 16 52 | 1 40 | 8 12 | 9 44 | 6 54 | 6 28 | 28 24 | | | n.a. |
| F 26 | 23 41 | 23 20 | 3 20 | 24 29 | 1 9 | 18 10 | 1 29 | 15 17 | 0 30 | 23 48 | 0 8 | 0 29 | 2 33 | 3 56 | 0 36 | 16 52 | 1 40 | 8 12 | 9 43 | 6 51 | 6 27 | 28 24 | | | n.a. |
| S 27 | 23 39 | 26 16 | 4 2 | 24 41 | 1 14 | 17 47 | 1 26 | 15 30 | 0 30 | 23 48 | 0 8 | 0 28 | 2 33 | 3 56 | 0 36 | 16 52 | 1 40 | 8 12 | 9 43 | 6 48 | 6 26 | 28 25 | | | n.a. |
| S 28 | 23 37 | 28 2 | 4 33 | 24 51 | 1 19 | 17 23 | 1 24 | 15 44 | 0 29 | 23 49 | 0 8 | 0 28 | 2 33 | 3 56 | 0 36 | 16 51 | 1 40 | 8 12 | 9 43 | 6 43 | 6 24 | 28 25 | | | n.a. |
| M29 | 23 35 | 28 31 | 4 52 | 25 1 | 1 24 | 16 59 | 1 21 | 15 57 | 0 28 | 23 49 | 0 8 | 0 27 | 2 34 | 3 56 | 0 35 | 16 51 | 1 40 | 8 12 | 9 43 | 6 37 | 6 23 | 28 26 | | | n.a. |
| T 30 | 23 32 | 27 40 | 4 59 | 25 9 | 1 29 | 16 34 | 1 18 | 16 9 | 0 28 | 23 49 | 0 8 | 0 27 | 2 34 | 3 56 | 0 35 | 16 51 | 1 40 | 8 12 | 9 43 | 6 31 | 6 22 | 28 26 | | | n.a. |
| W31 | 23s28 | 25s33 | 4s53 | 25s15 | 1s34 | 16s 9 | 1s15 | 16s22 | 0n27 | 23s50 | 0s 8 | 0n26 | 2n34 | 3n57 | 0s35 | 16n51 | 1s40 | 8n12 | 9s42 | 6n26 | 6n21 | 28s27 | | | n.a. |

Julian Day Number = 1692172.5, Delta T = 03h09m54s
Ecliptic obliquity = 23°42'25, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°10'13, Lahiri = - 5°03'12 Julian Calendar 1 Dec. 81 BCE == Greg. Calendar 29 Nov. 081 BCE

The year -80 astronomical counting style corresponds to year 081 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 80 BCE
# geocentric

## JANUARY 80 BCE (-79) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 31 6 | 8♉48'44 | 10♒11 | 29♐42 | 21♒14 | 16♏40 | 28♐ 8 | 4♎48 | 11♈13 | 21°R53 | 18°R32 | 15°R58 | 15♈54 | 25♐38 | n.a. | T 1 |
| F 2 | 6 35 3 | 9°49'42 | 22°22 | 1♉19 | 22°24 | 17°21 | 28°22 | 4°49 | 11°14 | 21♉52 | 18♉32 | 15♈47 | 15°51 | 25°45 | n.a. | F 2 |
| S 3 | 6 38 59 | 10°50'38 | 4♓41 | 2°58 | 23°34 | 18° 3 | 28°36 | 4°51 | 11°14 | 21°51 | 18°31 | 15°40 | 15°48 | 25°52 | n.a. | S 3 |
| S 4 | 6 42 56 | 11°51'33 | 17°12 | 4°37 | 24°44 | 18°44 | 28°50 | 4°52 | 11°15 | 21°50 | 18°30 | 15°36 | 15°45 | 25°58 | n.a. | S 4 |
| M 5 | 6 46 52 | 12°52'26 | 29°58 | 6°17 | 25°53 | 19°26 | 29° 4 | 4°53 | 11°16 | 21°49 | 18°30 | 15°34 | 15°41 | 26° 5 | n.a. | M 5 |
| T 6 | 6 50 49 | 13°53'18 | 13♈ 4 | 7°58 | 27° 3 | 20° 7 | 29°18 | 4°54 | 11°16 | 21°48 | 18°29 | 15°34 | 15°38 | 26°12 | n.a. | T 6 |
| W 7 | 6 54 45 | 14°54'08 | 26°32 | 9°39 | 28°12 | 20°49 | 29°32 | 4°55 | 11°17 | 21°47 | 18°29 | 15°34 | 15°35 | 26°18 | n.a. | W 7 |
| T 8 | 6 58 42 | 15°54'56 | 10♉26 | 11°21 | 29°21 | 21°31 | 29°46 | 4°56 | 11°18 | 21°46 | 18°28 | 15°32 | 15°32 | 26°25 | n.a. | T 8 |
| F 9 | 7 2 39 | 16°55'43 | 24°46 | 13° 4 | 0♓30 | 22°12 | 29°59 | 4°57 | 11°19 | 21°45 | 18°27 | 15°29 | 15°29 | 26°32 | n.a. | F 9 |
| S 10 | 7 6 35 | 17°56'29 | 9♊31 | 14°48 | 1°39 | 22°54 | 0♉13 | 4°57 | 11°20 | 21°45 | 18°27 | 15°22 | 15°26 | 26°39 | n.a. | S 10 |
| S 11 | 7 10 32 | 18°57'12 | 24°35 | 16°33 | 2°48 | 23°35 | 0°27 | 4°58 | 11°21 | 21°44 | 18°26 | 15°13 | 15°22 | 26°45 | n.a. | S 11 |
| M12 | 7 14 28 | 19°57'54 | 9♋50 | 18°18 | 3°56 | 24°17 | 0°41 | 4°58 | 11°22 | 21°43 | 18°26 | 15° 3 | 15°19 | 26°52 | n.a. | M12 |
| T 13 | 7 18 25 | 20°58'35 | 25° 6 | 20° 4 | 5° 4 | 24°59 | 0°55 | 4°59 | 11°23 | 21°42 | 18°25 | 14°51 | 15°16 | 26°59 | n.a. | T 13 |
| W14 | 7 22 21 | 21°59'14 | 10♌ 9 | 21°51 | 6°12 | 25°41 | 1° 8 | 4°59 | 11°24 | 21°42 | 18°25 | 14°40 | 15°13 | 27° 5 | n.a. | W14 |
| T 15 | 7 26 18 | 22°59'51 | 24°52 | 23°39 | 7°20 | 26°22 | 1°22 | 4°59 | 11°25 | 21°41 | 18°25 | 14°31 | 15°10 | 27°12 | n.a. | T 15 |
| F 16 | 7 30 14 | 24° 0'27 | 9♍ 8 | 25°28 | 8°28 | 27° 4 | 1°35 | 4°R59 | 11°27 | 21°40 | 18°24 | 14°24 | 15° 6 | 27°19 | n.a. | F 16 |
| S 17 | 7 34 11 | 25° 1'01 | 22°53 | 27°17 | 9°35 | 27°46 | 1°49 | 4°59 | 11°28 | 21°40 | 18°24 | 14°20 | 15° 3 | 27°26 | n.a. | S 17 |
| S 18 | 7 38 8 | 26° 1'34 | 6♎ 9 | 29° 7 | 10°43 | 28°28 | 2° 3 | 4°59 | 11°29 | 21°39 | 18°23 | 14°19 | 15° 0 | 27°32 | n.a. | S 18 |
| M19 | 7 42 4 | 27° 2'06 | 18°58 | 0♒58 | 11°50 | 29°10 | 2°16 | 4°58 | 11°31 | 21°39 | 18°23 | 14°D18 | 14°57 | 27°39 | n.a. | M19 |
| T 20 | 7 46 1 | 28° 2'36 | 1♏25 | 2°49 | 12°56 | 29°51 | 2°30 | 4°58 | 11°32 | 21°38 | 18°23 | 14°R18 | 14°54 | 27°46 | n.a. | T 20 |
| W21 | 7 49 57 | 29° 3'05 | 13°35 | 4°41 | 14° 3 | 0♐33 | 2°43 | 4°57 | 11°34 | 21°38 | 18°22 | 14°18 | 14°51 | 27°52 | n.a. | W21 |
| T 22 | 7 53 54 | 0♒ 3'32 | 25°34 | 6°33 | 15° 9 | 1°15 | 2°56 | 4°57 | 11°35 | 21°37 | 18°22 | 14°15 | 14°47 | 27°59 | n.a. | T 22 |
| F 23 | 7 57 50 | 1° 3'58 | 7♐26 | 8°25 | 16°15 | 1°57 | 3°10 | 4°56 | 11°37 | 21°37 | 18°22 | 14° 9 | 14°44 | 28° 6 | n.a. | F 23 |
| S 24 | 8 1 47 | 2° 4'23 | 19°16 | 10°18 | 17°21 | 2°39 | 3°23 | 4°55 | 11°38 | 21°37 | 18°22 | 14° 1 | 14°41 | 28°13 | n.a. | S 24 |
| S 25 | 8 5 43 | 3° 4'45 | 1♉ 6 | 12°11 | 18°27 | 3°21 | 3°36 | 4°54 | 11°40 | 21°36 | 18°21 | 13°50 | 14°38 | 28°19 | n.a. | S 25 |
| M26 | 8 9 40 | 4° 5'06 | 13° 0 | 14° 3 | 19°32 | 4° 3 | 3°49 | 4°53 | 11°42 | 21°36 | 18°21 | 13°37 | 14°35 | 28°26 | n.a. | M26 |
| T 27 | 8 13 37 | 5° 5'26 | 25° 0 | 15°55 | 20°37 | 4°45 | 4° 2 | 4°52 | 11°43 | 21°36 | 18°21 | 13°24 | 14°32 | 28°33 | n.a. | T 27 |
| W28 | 8 17 33 | 6° 5'43 | 7♒ 7 | 17°46 | 21°42 | 5°27 | 4°15 | 4°51 | 11°45 | 21°36 | 18°21 | 13°11 | 14°28 | 28°40 | n.a. | W28 |
| T 29 | 8 21 30 | 7° 5'59 | 19°22 | 19°36 | 22°47 | 6° 9 | 4°28 | 4°50 | 11°47 | 21°35 | 18°21 | 12°59 | 14°25 | 28°46 | n.a. | T 29 |
| F 30 | 8 25 26 | 8° 6'12 | 1♓45 | 21°24 | 23°51 | 6°51 | 4°41 | 4°48 | 11°49 | 21°35 | 18°21 | 12°50 | 14°22 | 28°53 | n.a. | F 30 |
| S 31 | 8 29 23 | 9♒ 6'24 | 14♓18 | 23♒11 | 24♓55 | 7♐33 | 4♉54 | 4♎47 | 11♈51 | 21♉35 | 18♉21 | 12♈43 | 14♈19 | 29♐ 0 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| T 1 | 23 s25 | 22 s16 | 4 s34 | 25 s20 | 1 s38 | 15 s43 | 1 s12 | 16 s35 | 0n26 | 23 s50 | 0 s 8 | 0n26 | 2n35 | 3n57 | 0 s35 | 16n50 | 1 s39 | 8n12 | 9 s42 | 6n21 | 6n19 | 28 s28 | | | n.a. |
| F 2 | 23 20 | 18 1 | 4 1 | 25 24 | 1 42 | 15 17 | 1 9 | 16 47 | 0 26 | 23 50 | 0 9 | 0 26 | 2 35 | 3 57 | 0 35 | 16 50 | 1 39 | 8 12 | 9 42 | 6 17 | 6 18 | 28 28 | | | n.a. |
| S 3 | 23 16 | 12 58 | 3 18 | 25 26 | 1 45 | 14 51 | 1 6 | 17 0 | 0 25 | 23 51 | 0 9 | 0 25 | 2 35 | 3 57 | 0 35 | 16 50 | 1 39 | 8 12 | 9 42 | 6 14 | 6 17 | 28 29 | | | n.a. |
| S 4 | 23 10 | 7 19 | 2 24 | 25 26 | 1 48 | 14 24 | 1 3 | 17 12 | 0 24 | 23 51 | 0 9 | 0 25 | 2 35 | 3 58 | 0 35 | 16 50 | 1 39 | 8 12 | 9 42 | 6 12 | 6 16 | 28 29 | | | n.a. |
| M 5 | 23 5 | 1 15 | 1 21 | 25 25 | 1 51 | 13 57 | 0 59 | 17 24 | 0 24 | 23 51 | 0 9 | 0 25 | 2 36 | 3 58 | 0 35 | 16 50 | 1 39 | 8 12 | 9 41 | 6 12 | 6 15 | 28 30 | | | n.a. |
| T 6 | 22 58 | 5n 1 | 0 13 | 25 22 | 1 54 | 13 30 | 0 56 | 17 36 | 0 23 | 23 51 | 0 9 | 0 25 | 2 36 | 3 58 | 0 35 | 16 49 | 1 39 | 8 12 | 9 41 | 6 12 | 6 13 | 28 30 | | | n.a. |
| W 7 | 22 52 | 11 14 | 0n58 | 25 17 | 1 56 | 13 3 | 0 52 | 17 48 | 0 22 | 23 51 | 0 9 | 0 25 | 2 36 | 3 59 | 0 35 | 16 49 | 1 39 | 8 12 | 9 41 | 6 11 | 6 12 | 28 31 | | | n.a. |
| T 8 | 22 45 | 17 7 | 2 7 | 25 11 | 1 58 | 12 35 | 0 48 | 18 0 | 0 21 | 23 52 | 0 9 | 0 25 | 2 37 | 3 59 | 0 35 | 16 49 | 1 39 | 8 12 | 9 41 | 6 11 | 6 11 | 28 31 | | | n.a. |
| F 9 | 22 37 | 22 15 | 3 11 | 25 3 | 2 0 | 12 7 | 0 45 | 18 11 | 0 21 | 23 52 | 0 9 | 0 25 | 2 37 | 3 59 | 0 35 | 16 49 | 1 39 | 8 13 | 9 40 | 6 10 | 6 10 | 28 32 | | | n.a. |
| S 10 | 22 29 | 26 8 | 4 4 | 24 53 | 2 1 | 11 38 | 0 41 | 18 23 | 0 20 | 23 52 | 0 9 | 0 25 | 2 37 | 4 0 | 0 35 | 16 49 | 1 39 | 8 13 | 9 40 | 6 7 | 6 8 | 28 32 | | | n.a. |
| S 11 | 22 21 | 28 16 | 4 41 | 24 41 | 2 2 | 11 10 | 0 37 | 18 34 | 0 19 | 23 52 | 0 10 | 0 25 | 2 37 | 4 0 | 0 35 | 16 49 | 1 39 | 8 13 | 9 40 | 6 4 | 6 7 | 28 33 | | | n.a. |
| M12 | 22 12 | 28 18 | 4 59 | 24 27 | 2 2 | 10 41 | 0 33 | 18 45 | 0 18 | 23 52 | 0 10 | 0 25 | 2 38 | 4 1 | 0 35 | 16 48 | 1 39 | 8 13 | 9 40 | 5 59 | 6 6 | 28 33 | | | n.a. |
| T 13 | 22 3 | 26 11 | 4 55 | 24 12 | 2 2 | 10 12 | 0 29 | 18 56 | 0 18 | 23 52 | 0 10 | 0 25 | 2 38 | 4 1 | 0 35 | 16 48 | 1 39 | 8 13 | 9 40 | 5 55 | 6 5 | 28 33 | | | n.a. |
| W14 | 21 53 | 22 14 | 4 31 | 23 54 | 2 1 | 9 43 | 0 25 | 19 7 | 0 17 | 23 52 | 0 10 | 0 25 | 2 38 | 4 2 | 0 35 | 16 48 | 1 39 | 8 13 | 9 39 | 5 50 | 6 3 | 28 34 | | | n.a. |
| T 15 | 21 43 | 16 58 | 3 49 | 23 35 | 2 0 | 9 13 | 0 20 | 19 18 | 0 16 | 23 52 | 0 10 | 0 25 | 2 38 | 4 2 | 0 35 | 16 48 | 1 39 | 8 13 | 9 39 | 5 47 | 6 2 | 28 34 | | | n.a. |
| F 16 | 21 33 | 10 55 | 2 54 | 23 13 | 1 58 | 8 44 | 0 16 | 19 28 | 0 15 | 23 52 | 0 10 | 0 25 | 2 39 | 4 3 | 0 35 | 16 48 | 1 39 | 8 13 | 9 39 | 5 44 | 6 1 | 28 35 | | | n.a. |
| S 17 | 21 22 | 4 33 | 1 51 | 22 50 | 1 56 | 8 14 | 0 11 | 19 39 | 0 15 | 23 52 | 0 10 | 0 26 | 2 39 | 4 3 | 0 35 | 16 48 | 1 39 | 8 13 | 9 39 | 5 43 | 6 0 | 28 35 | | | n.a. |
| S 18 | 21 11 | 1 s48 | 0 43 | 22 25 | 1 54 | 7 44 | 0 7 | 19 49 | 0 14 | 23 52 | 0 10 | 0 26 | 2 39 | 4 4 | 0 35 | 16 48 | 1 39 | 8 14 | 9 38 | 5 42 | 5 58 | 28 36 | | | n.a. |
| M19 | 20 59 | 7 53 | 0 s25 | 21 58 | 1 50 | 7 14 | 0 2 | 19 59 | 0 13 | 23 52 | 0 10 | 0 26 | 2 40 | 4 4 | 0 35 | 16 48 | 1 38 | 8 14 | 9 38 | 5 42 | 5 57 | 28 36 | | | n.a. |
| T 20 | 20 47 | 13 29 | 1 29 | 21 29 | 1 47 | 6 44 | 0n 2 | 20 9 | 0 12 | 23 52 | 0 11 | 0 27 | 2 40 | 4 5 | 0 35 | 16 48 | 1 38 | 8 14 | 9 38 | 5 42 | 5 56 | 28 36 | | | n.a. |
| W21 | 20 35 | 18 27 | 2 28 | 20 57 | 1 42 | 6 14 | 0 7 | 20 19 | 0 11 | 23 51 | 0 11 | 0 27 | 2 40 | 4 5 | 0 35 | 16 48 | 1 38 | 8 14 | 9 38 | 5 42 | 5 55 | 28 37 | | | n.a. |
| T 22 | 20 22 | 22 36 | 3 20 | 20 25 | 1 37 | 5 44 | 0 12 | 20 28 | 0 10 | 23 51 | 0 11 | 0 28 | 2 40 | 4 6 | 0 35 | 16 47 | 1 38 | 8 14 | 9 37 | 5 41 | 5 53 | 28 37 | | | n.a. |
| F 23 | 20 9 | 25 46 | 4 2 | 19 50 | 1 31 | 5 13 | 0 17 | 20 38 | 0 10 | 23 51 | 0 11 | 0 28 | 2 41 | 4 7 | 0 35 | 16 47 | 1 38 | 8 14 | 9 37 | 5 38 | 5 52 | 28 37 | | | n.a. |
| S 24 | 19 55 | 27 49 | 4 34 | 19 13 | 1 25 | 4 43 | 0 22 | 20 47 | 0 9 | 23 51 | 0 11 | 0 29 | 2 41 | 4 7 | 0 35 | 16 47 | 1 38 | 8 14 | 9 37 | 5 35 | 5 51 | 28 38 | | | n.a. |
| S 25 | 19 41 | 28 36 | 4 54 | 18 35 | 1 18 | 4 12 | 0 27 | 20 56 | 0 8 | 23 51 | 0 11 | 0 29 | 2 41 | 4 8 | 0 35 | 16 47 | 1 38 | 8 15 | 9 37 | 5 31 | 5 50 | 28 38 | | | n.a. |
| M26 | 19 27 | 28 3 | 5 1 | 17 55 | 1 10 | 3 42 | 0 32 | 21 5 | 0 7 | 23 50 | 0 11 | 0 30 | 2 41 | 4 9 | 0 34 | 16 47 | 1 38 | 8 15 | 9 36 | 5 26 | 5 49 | 28 38 | | | n.a. |
| T 27 | 19 12 | 26 12 | 4 55 | 17 14 | 1 2 | 3 11 | 0 37 | 21 13 | 0 6 | 23 50 | 0 11 | 0 31 | 2 42 | 4 10 | 0 34 | 16 47 | 1 38 | 8 15 | 9 36 | 5 21 | 5 47 | 28 39 | | | n.a. |
| W28 | 18 58 | 23 8 | 4 36 | 16 31 | 0 53 | 2 41 | 0 43 | 21 22 | 0 5 | 23 50 | 0 12 | 0 32 | 2 42 | 4 10 | 0 34 | 16 47 | 1 38 | 8 15 | 9 36 | 5 16 | 5 46 | 28 39 | | | n.a. |
| T 29 | 18 42 | 19 1 | 4 3 | 15 47 | 0 43 | 2 10 | 0 48 | 21 30 | 0 4 | 23 49 | 0 12 | 0 32 | 2 42 | 4 11 | 0 34 | 16 47 | 1 38 | 8 15 | 9 36 | 5 11 | 5 45 | 28 39 | | | n.a. |
| F 30 | 18 27 | 14 4 | 3 19 | 15 2 | 0 33 | 1 39 | 0 53 | 21 38 | 0 3 | 23 49 | 0 12 | 0 33 | 2 43 | 4 12 | 0 34 | 16 47 | 1 38 | 8 16 | 9 35 | 5 7 | 5 44 | 28 40 | | | n.a. |
| S 31 | 18 s11 | 8 s28 | 2 s25 | 14 s17 | 0 s21 | 1 s 9 | 0n59 | 21 s46 | 0n 3 | 23 s49 | 0 s12 | 0n34 | 2n43 | 4n13 | 0 s34 | 16n47 | 1 s38 | 8n16 | 9 s35 | 5n 5 | 5n42 | 28 s40 | | | n.a. |

Julian Day Number = 1692203.5, Delta T = 03h09m54s
Ecliptic obliquity = 23°42'25, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°10'08, Lahiri = - 5°03'08 Julian Calendar 1 Jan. 80 BCE == Greg. Calendar 30 Dec. 081 BCE

The year -79 astronomical counting style corresponds to year 080 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 80 BCE
# geocentric

## FEBRUARY 80 BCE (-79) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 33 19 | 10♒ 6'33 | 27♓ 1 | 24♒55 | 25♓58 | 8♐15 | 5♑ 7 | 4°R45 | 11♈53 | 21°R35 | 18°R21 | 12°R40 | 14♈16 | 29♐ 6 | n.a. | S 1 |
| M 2 | 8 37 16 | 11° 6'40 | 9♈57 | 26°36 | 27° 2 | 8°57 | 5°20 | 4♎43 | 11°55 | 21♉35 | 18♉21 | 12°D39 | 14°12 | 29°13 | n.a. | M 2 |
| T 3 | 8 41 12 | 12° 6'45 | 23° 8 | 28°14 | 28° 5 | 9°39 | 5°33 | 4°42 | 11°57 | 21°D35 | 18°D21 | 12♈39 | 14° 9 | 29°20 | n.a. | T 3 |
| W 4 | 8 45 9 | 13° 6'48 | 6♉35 | 29°48 | 29° 7 | 10°21 | 5°45 | 4°40 | 11°59 | 21°35 | 18°21 | 12°R40 | 14° 6 | 29°27 | n.a. | W 4 |
| T 5 | 8 49 6 | 14° 6'48 | 20°22 | 1♓17 | 0♈ 9 | 11° 3 | 5°58 | 4°38 | 12° 1 | 21°35 | 18°21 | 12°40 | 14° 3 | 29°33 | n.a. | T 5 |
| F 6 | 8 53 2 | 15° 6'46 | 4♊29 | 2°42 | 1°11 | 11°45 | 6°10 | 4°36 | 12° 3 | 21°35 | 18°21 | 12°38 | 14° 0 | 29°40 | n.a. | F 6 |
| S 7 | 8 56 59 | 16° 6'42 | 18°55 | 4° 1 | 2°13 | 12°27 | 6°23 | 4°34 | 12° 6 | 21°35 | 18°21 | 12°34 | 13°57 | 29°47 | n.a. | S 7 |
| S 8 | 9 0 55 | 17° 6'36 | 3♋37 | 5°13 | 3°14 | 13° 9 | 6°35 | 4°31 | 12° 8 | 21°35 | 18°21 | 12°28 | 13°53 | 29°53 | n.a. | S 8 |
| M 9 | 9 4 52 | 18° 6'27 | 18°29 | 6°20 | 4°14 | 13°51 | 6°48 | 4°29 | 12°10 | 21°36 | 18°21 | 12°20 | 13°50 | 0♑ 0 | n.a. | M 9 |
| T 10 | 9 8 48 | 19° 6'16 | 3♌24 | 7°19 | 5°15 | 14°33 | 7° 0 | 4°27 | 12°13 | 21°36 | 18°21 | 12°12 | 13°47 | 0° 7 | n.a. | T 10 |
| W11 | 9 12 45 | 20° 6'03 | 18°13 | 8°10 | 6°14 | 15°16 | 7°12 | 4°24 | 12°15 | 21°36 | 18°21 | 12° 3 | 13°44 | 0°14 | n.a. | W11 |
| T 12 | 9 16 41 | 21° 5'48 | 2♍47 | 8°54 | 7°14 | 15°58 | 7°24 | 4°21 | 12°17 | 21°36 | 18°21 | 11°57 | 13°41 | 0°20 | n.a. | T 12 |
| F 13 | 9 20 38 | 22° 5'30 | 16°59 | 9°30 | 8°13 | 16°40 | 7°36 | 4°19 | 12°20 | 21°37 | 18°22 | 11°52 | 13°38 | 0°27 | n.a. | F 13 |
| S 14 | 9 24 35 | 23° 5'11 | 0♎46 | 9°57 | 9°11 | 17°22 | 7°48 | 4°16 | 12°22 | 21°37 | 18°22 | 11°49 | 13°34 | 0°34 | n.a. | S 14 |
| S 15 | 9 28 31 | 24° 4'49 | 14° 6 | 10°16 | 10° 9 | 18° 4 | 8° 0 | 4°13 | 12°25 | 21°37 | 18°22 | 11°D49 | 13°31 | 0°40 | n.a. | S 15 |
| M16 | 9 32 28 | 25° 4'26 | 27° 1 | 10°26 | 11° 6 | 18°46 | 8°12 | 4°10 | 12°27 | 21°38 | 18°22 | 11°50 | 13°28 | 0°47 | n.a. | M16 |
| T 17 | 9 36 24 | 26° 4'01 | 9♏33 | 10°R28 | 12° 3 | 19°29 | 8°24 | 4° 7 | 12°30 | 21°38 | 18°23 | 11°51 | 13°25 | 0°54 | n.a. | T 17 |
| W18 | 9 40 21 | 27° 3'34 | 21°48 | 10°22 | 13° 0 | 20°11 | 8°35 | 4° 4 | 12°33 | 21°39 | 18°23 | 11°R52 | 13°22 | 1° 1 | n.a. | W18 |
| T 19 | 9 44 17 | 28° 3'06 | 3♐50 | 10° 8 | 13°55 | 20°53 | 8°47 | 4° 1 | 12°35 | 21°39 | 18°23 | 11°52 | 13°18 | 1° 7 | n.a. | T 19 |
| F 20 | 9 48 14 | 29° 2'35 | 15°44 | 9°47 | 14°51 | 21°35 | 8°58 | 3°58 | 12°38 | 21°40 | 18°24 | 11°50 | 13°15 | 1°14 | n.a. | F 20 |
| S 21 | 9 52 10 | 0♓ 2'03 | 27°35 | 9°19 | 15°45 | 22°17 | 9°10 | 3°54 | 12°41 | 21°41 | 18°24 | 11°47 | 13°12 | 1°21 | n.a. | S 21 |
| S 22 | 9 56 7 | 1° 1'28 | 9♑28 | 8°45 | 16°39 | 23° 0 | 9°21 | 3°51 | 12°44 | 21°41 | 18°24 | 11°41 | 13° 9 | 1°28 | n.a. | S 22 |
| M23 | 10 0 4 | 2° 0'52 | 21°25 | 8° 5 | 17°32 | 23°42 | 9°32 | 3°47 | 12°46 | 21°42 | 18°25 | 11°35 | 13° 6 | 1°34 | n.a. | M23 |
| T 24 | 10 4 0 | 3° 0'14 | 3♒31 | 7°21 | 18°25 | 24°24 | 9°43 | 3°44 | 12°49 | 21°43 | 18°25 | 11°28 | 13° 3 | 1°41 | n.a. | T 24 |
| W25 | 10 7 57 | 3°59'34 | 15°47 | 6°34 | 19°17 | 25° 6 | 9°54 | 3°40 | 12°52 | 21°43 | 18°26 | 11°21 | 12°59 | 1°48 | n.a. | W25 |
| T 26 | 10 11 53 | 4°58'51 | 28°14 | 5°44 | 20° 8 | 25°49 | 10° 5 | 3°37 | 12°55 | 21°44 | 18°26 | 11°14 | 12°56 | 1°54 | n.a. | T 26 |
| F 27 | 10 15 50 | 5°58'07 | 10♓53 | 4°52 | 20°59 | 26°31 | 10°16 | 3°33 | 12°58 | 21°45 | 18°27 | 11° 9 | 12°53 | 2° 1 | n.a. | F 27 |
| S 28 | 10 19 46 | 6♓57'20 | 23♓45 | 4♓ 1 | 21♈49 | 27♐13 | 10♑27 | 3♎29 | 13♈ 1 | 21♉46 | 18♉27 | 11♈ 6 | 12♈50 | 2♑ 8 | n.a. | S 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| S 1 | 17s55 | 2s27 | 1s22 | 13s31 | 0s10 | 0s38 | 1n 4 | 21s54 | 0n 2 | 23s48 | 0s12 | 0n35 | 2n43 | 4n13 | 0s34 | 16n47 | 1s38 | 8n16 | 9s35 | 5n 3 | 5n41 | 28s40 | | | n.a. |
| M 2 | 17 38 | 3n46 | 0 14 | 12 45 | 0n 3 | 0 8 | 1 10 | 22 2 | 0 1 | 23 48 | 0 12 | 0 36 | 2 43 | 4 14 | 0 34 | 16 48 | 1 38 | 8 16 | 9 35 | 5 3 | 5 40 | 28 41 | | | n.a. |
| T 3 | 17 21 | 9 57 | 0n56 | 11 59 | 0 15 | 0n23 | 1 15 | 22 9 | 0s 0 | 23 48 | 0 12 | 0 37 | 2 44 | 4 15 | 0 34 | 16 48 | 1 38 | 8 17 | 9 34 | 5 3 | 5 39 | 28 41 | | | n.a. |
| W 4 | 17 4 | 15 49 | 2 4 | 11 13 | 0 29 | 0 53 | 1 21 | 22 16 | 0 1 | 23 47 | 0 12 | 0 38 | 2 44 | 4 16 | 0 34 | 16 48 | 1 37 | 8 17 | 9 34 | 5 3 | 5 37 | 28 41 | | | n.a. |
| T 5 | 16 47 | 21 2 | 3 7 | 10 29 | 0 42 | 1 23 | 1 27 | 22 23 | 0 2 | 23 47 | 0 13 | 0 39 | 2 44 | 4 17 | 0 34 | 16 48 | 1 37 | 8 17 | 9 34 | 5 3 | 5 36 | 28 41 | | | n.a. |
| F 6 | 16 29 | 25 13 | 4 1 | 9 45 | 0 56 | 1 53 | 1 32 | 22 30 | 0 3 | 23 46 | 0 13 | 0 40 | 2 44 | 4 18 | 0 34 | 16 48 | 1 37 | 8 17 | 9 34 | 5 3 | 5 35 | 28 42 | | | n.a. |
| S 7 | 16 11 | 27 53 | 4 40 | 9 3 | 1 11 | 2 23 | 1 38 | 22 37 | 0 4 | 23 46 | 0 13 | 0 41 | 2 44 | 4 19 | 0 34 | 16 48 | 1 37 | 8 18 | 9 33 | 5 1 | 5 34 | 28 42 | | | n.a. |
| S 8 | 15 53 | 28 41 | 5 2 | 8 23 | 1 25 | 2 53 | 1 44 | 22 43 | 0 5 | 23 45 | 0 13 | 0 42 | 2 45 | 4 20 | 0 34 | 16 48 | 1 37 | 8 18 | 9 33 | 4 59 | 5 32 | 28 42 | | | n.a. |
| M 9 | 15 34 | 27 25 | 5 3 | 7 45 | 1 39 | 3 23 | 1 50 | 22 49 | 0 6 | 23 45 | 0 13 | 0 43 | 2 45 | 4 20 | 0 34 | 16 48 | 1 37 | 8 18 | 9 33 | 4 56 | 5 31 | 28 42 | | | n.a. |
| T 10 | 15 16 | 24 13 | 4 45 | 7 10 | 1 54 | 3 53 | 1 56 | 22 55 | 0 7 | 23 44 | 0 13 | 0 44 | 2 45 | 4 21 | 0 34 | 16 48 | 1 37 | 8 18 | 9 33 | 4 52 | 5 30 | 28 42 | | | n.a. |
| W11 | 14 57 | 19 27 | 4 7 | 6 38 | 2 7 | 4 22 | 2 2 | 23 1 | 0 8 | 23 44 | 0 13 | 0 45 | 2 45 | 4 22 | 0 34 | 16 48 | 1 37 | 8 19 | 9 32 | 4 49 | 5 29 | 28 43 | | | n.a. |
| T 12 | 14 38 | 13 36 | 3 14 | 6 9 | 2 21 | 4 51 | 2 8 | 23 7 | 0 9 | 23 43 | 0 13 | 0 47 | 2 46 | 4 23 | 0 34 | 16 48 | 1 37 | 8 19 | 9 32 | 4 46 | 5 27 | 28 43 | | | n.a. |
| F 13 | 14 18 | 7 11 | 2 9 | 5 43 | 2 34 | 5 20 | 2 14 | 23 12 | 0 10 | 23 43 | 0 14 | 0 48 | 2 46 | 4 24 | 0 34 | 16 49 | 1 37 | 8 19 | 9 32 | 4 44 | 5 26 | 28 43 | | | n.a. |
| S 14 | 13 58 | 0 36 | 0 59 | 5 22 | 2 46 | 5 49 | 2 20 | 23 17 | 0 11 | 23 42 | 0 14 | 0 49 | 2 46 | 4 25 | 0 34 | 16 49 | 1 37 | 8 20 | 9 32 | 4 43 | 5 25 | 28 43 | | | n.a. |
| S 15 | 13 39 | 5s49 | 0s12 | 5 4 | 2 58 | 6 18 | 2 26 | 23 22 | 0 12 | 23 42 | 0 14 | 0 51 | 2 46 | 4 26 | 0 34 | 16 49 | 1 37 | 8 20 | 9 31 | 4 43 | 5 24 | 28 43 | | | n.a. |
| M16 | 13 18 | 11 47 | 1 21 | 4 50 | 3 8 | 6 46 | 2 32 | 23 27 | 0 13 | 23 41 | 0 14 | 0 52 | 2 46 | 4 27 | 0 34 | 16 49 | 1 37 | 8 20 | 9 31 | 4 44 | 5 22 | 28 44 | | | n.a. |
| T 17 | 12 58 | 17 6 | 2 24 | 4 41 | 3 17 | 7 14 | 2 38 | 23 31 | 0 14 | 23 40 | 0 14 | 0 53 | 2 47 | 4 28 | 0 34 | 16 49 | 1 37 | 8 21 | 9 31 | 4 44 | 5 21 | 28 44 | | | n.a. |
| W18 | 12 38 | 21 37 | 3 19 | 4 36 | 3 25 | 7 42 | 2 44 | 23 36 | 0 16 | 23 40 | 0 14 | 0 55 | 2 47 | 4 30 | 0 34 | 16 49 | 1 37 | 8 21 | 9 31 | 4 45 | 5 20 | 28 44 | | | n.a. |
| T 19 | 12 17 | 25 8 | 4 4 | 4 35 | 3 32 | 8 10 | 2 51 | 23 40 | 0 17 | 23 39 | 0 14 | 0 56 | 2 47 | 4 31 | 0 34 | 16 50 | 1 37 | 8 21 | 9 30 | 4 45 | 5 19 | 28 44 | | | n.a. |
| F 20 | 11 56 | 27 32 | 4 38 | 4 39 | 3 37 | 8 37 | 2 57 | 23 44 | 0 18 | 23 39 | 0 15 | 0 58 | 2 47 | 4 32 | 0 34 | 16 50 | 1 36 | 8 22 | 9 30 | 4 44 | 5 17 | 28 44 | | | n.a. |
| S 21 | 11 35 | 28 41 | 5 0 | 4 46 | 3 40 | 9 4 | 3 3 | 23 48 | 0 19 | 23 38 | 0 15 | 0 59 | 2 47 | 4 33 | 0 34 | 16 50 | 1 36 | 8 22 | 9 30 | 4 42 | 5 16 | 28 44 | | | n.a. |
| S 22 | 11 14 | 28 30 | 5 9 | 4 58 | 3 42 | 9 31 | 3 9 | 23 51 | 0 20 | 23 37 | 0 15 | 1 1 | 2 48 | 4 34 | 0 34 | 16 50 | 1 36 | 8 22 | 9 30 | 4 40 | 5 15 | 28 44 | | | n.a. |
| M23 | 10 53 | 26 59 | 5 5 | 5 13 | 3 41 | 9 58 | 3 15 | 23 54 | 0 21 | 23 37 | 0 15 | 1 2 | 2 48 | 4 35 | 0 34 | 16 51 | 1 36 | 8 23 | 9 29 | 4 38 | 5 14 | 28 44 | | | n.a. |
| T 24 | 10 31 | 24 14 | 4 47 | 5 31 | 3 39 | 10 24 | 3 21 | 23 57 | 0 22 | 23 36 | 0 15 | 1 4 | 2 48 | 4 36 | 0 34 | 16 51 | 1 36 | 8 23 | 9 29 | 4 35 | 5 12 | 28 44 | | | n.a. |
| W25 | 10 9 | 20 21 | 4 16 | 5 52 | 3 35 | 10 49 | 3 28 | 24 0 | 0 23 | 23 35 | 0 15 | 1 5 | 2 48 | 4 37 | 0 34 | 16 51 | 1 36 | 8 23 | 9 29 | 4 32 | 5 11 | 28 45 | | | n.a. |
| T 26 | 9 47 | 15 32 | 3 32 | 6 16 | 3 29 | 11 15 | 3 34 | 24 3 | 0 25 | 23 35 | 0 15 | 1 7 | 2 48 | 4 38 | 0 34 | 16 51 | 1 36 | 8 24 | 9 29 | 4 30 | 5 10 | 28 45 | | | n.a. |
| F 27 | 9 25 | 9 59 | 2 37 | 6 42 | 3 22 | 11 40 | 3 40 | 24 5 | 0 26 | 23 34 | 0 16 | 1 9 | 2 48 | 4 40 | 0 34 | 16 52 | 1 36 | 8 24 | 9 28 | 4 28 | 5 9 | 28 45 | | | n.a. |
| S 28 | 9s 3 | 3s56 | 1s33 | 7s 9 | 3n13 | 12n 5 | 3n46 | 24s 8 | 0s27 | 23s33 | 0s16 | 1n10 | 2n49 | 4n41 | 0s34 | 16n52 | 1s36 | 8n24 | 9s28 | 4n27 | 5n 7 | 28s45 | | | n.a. |

Julian Day Number = 1692234.5, Delta T = 03h09m53s
Ecliptic obliquity = 23°42'26, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°10'04, Lahiri = - 5°03'04 Julian Calendar 1 Feb. 80 BCE == Greg. Calendar 30 Jan. 080 BCE


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# ASTRODIENST EPHEMERIS for the year 80 BCE
# geocentric

## MARCH 80 BCE (-79) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 23 43 | 7♓56'31 | 6♈48 | 3°R10 | 22♈38 | 27♐55 | 10♑37 | 3°R25 | 13♈ 4 | 21♉46 | 18♉28 | 11°D 5 | 12♈47 | 2♑15 | n.a. | S 1 |
| M 2 | 10 27 39 | 8°55'39 | 20° 4 | 2♓21 | 23°26 | 28°38 | 10°48 | 3♎21 | 13° 7 | 21°47 | 18°28 | 11♈ 5 | 12°44 | 2°21 | n.a. | M 2 |
| T 3 | 10 31 36 | 9°54'46 | 3♉33 | 1°35 | 24°13 | 29°20 | 10°58 | 3°18 | 13°10 | 21°48 | 18°29 | 11° 7 | 12°40 | 2°28 | n.a. | T 3 |
| W 4 | 10 35 32 | 10°53'50 | 17°13 | 0°51 | 25° 0 | 0♑ 2 | 11° 8 | 3°14 | 13°13 | 21°49 | 18°30 | 11° 8 | 12°37 | 2°35 | n.a. | W 4 |
| T 5 | 10 39 29 | 11°52'51 | 1♊ 5 | 0°12 | 25°45 | 0°44 | 11°19 | 3°10 | 13°16 | 21°50 | 18°30 | 11° 9 | 12°34 | 2°41 | n.a. | T 5 |
| F 6 | 10 43 26 | 12°51'51 | 15° 9 | 29♒37 | 26°30 | 1°27 | 11°29 | 3° 5 | 13°19 | 21°51 | 18°31 | 11°R10 | 12°31 | 2°48 | n.a. | F 6 |
| S 7 | 10 47 22 | 13°50'48 | 29°23 | 29° 7 | 27°13 | 2° 9 | 11°39 | 3° 1 | 13°22 | 21°52 | 18°32 | 11° 9 | 12°28 | 2°55 | n.a. | S 7 |
| S 8 | 10 51 19 | 14°49'42 | 13♋46 | 28°43 | 27°56 | 2°51 | 11°49 | 2°57 | 13°25 | 21°53 | 18°32 | 11° 7 | 12°24 | 3° 2 | n.a. | S 8 |
| M 9 | 10 55 15 | 15°48'34 | 28°13 | 28°23 | 28°37 | 3°33 | 11°58 | 2°53 | 13°28 | 21°54 | 18°33 | 11° 4 | 12°21 | 3° 8 | n.a. | M 9 |
| T 10 | 10 59 12 | 16°47'24 | 12♌40 | 28° 9 | 29°18 | 4°15 | 12° 8 | 2°49 | 13°31 | 21°56 | 18°34 | 11° 0 | 12°18 | 3°15 | n.a. | T 10 |
| W11 | 11 3 8 | 17°46'11 | 27° 1 | 28° 0 | 29°57 | 4°58 | 12°17 | 2°44 | 13°34 | 21°57 | 18°34 | 10°57 | 12°15 | 3°22 | n.a. | W11 |
| T 12 | 11 7 5 | 18°44'56 | 11♍11 | 27°D57 | 0♉35 | 5°40 | 12°27 | 2°40 | 13°38 | 21°58 | 18°35 | 10°54 | 12°12 | 3°29 | n.a. | T 12 |
| F 13 | 11 11 1 | 19°43'39 | 25° 5 | 28° 0 | 1°11 | 6°22 | 12°36 | 2°36 | 13°41 | 21°59 | 18°36 | 10°53 | 12° 9 | 3°35 | n.a. | F 13 |
| S 14 | 11 14 58 | 20°42'20 | 8♎40 | 28° 7 | 1°47 | 7° 4 | 12°45 | 2°31 | 13°44 | 22° 0 | 18°37 | 10°D52 | 12° 5 | 3°42 | n.a. | S 14 |
| S 15 | 11 18 55 | 21°40'59 | 21°54 | 28°19 | 2°21 | 7°47 | 12°54 | 2°27 | 13°47 | 22° 2 | 18°38 | 10°52 | 12° 2 | 3°49 | n.a. | S 15 |
| M16 | 11 22 51 | 22°39'36 | 4♏48 | 28°37 | 2°53 | 8°29 | 13° 3 | 2°23 | 13°51 | 22° 3 | 18°38 | 10°53 | 11°59 | 3°55 | n.a. | M16 |
| T 17 | 11 26 48 | 23°38'11 | 17°22 | 28°59 | 3°25 | 9°11 | 13°12 | 2°18 | 13°54 | 22° 4 | 18°39 | 10°55 | 11°56 | 4° 2 | n.a. | T 17 |
| W18 | 11 30 44 | 24°36'44 | 29°40 | 29°25 | 3°54 | 9°53 | 13°21 | 2°14 | 13°57 | 22° 6 | 18°40 | 10°56 | 11°53 | 4° 9 | n.a. | W18 |
| T 19 | 11 34 41 | 25°35'16 | 11♐45 | 29°56 | 4°22 | 10°35 | 13°29 | 2° 9 | 14° 1 | 22° 7 | 18°41 | 10°57 | 11°49 | 4°16 | n.a. | T 19 |
| F 20 | 11 38 37 | 26°33'46 | 23°41 | 0♓31 | 4°49 | 11°17 | 13°38 | 2° 5 | 14° 4 | 22° 8 | 18°42 | 10°R58 | 11°46 | 4°22 | n.a. | F 20 |
| S 21 | 11 42 34 | 27°32'14 | 5♑35 | 1°10 | 5°14 | 11°59 | 13°46 | 2° 0 | 14° 7 | 22°10 | 18°43 | 10°57 | 11°43 | 4°29 | n.a. | S 21 |
| S 22 | 11 46 30 | 28°30'41 | 17°29 | 1°53 | 5°37 | 12°42 | 13°54 | 1°56 | 14°11 | 22°11 | 18°44 | 10°57 | 11°40 | 4°36 | n.a. | S 22 |
| M23 | 11 50 27 | 29°29'05 | 29°28 | 2°39 | 5°58 | 13°24 | 14° 2 | 1°51 | 14°14 | 22°13 | 18°45 | 10°55 | 11°37 | 4°42 | n.a. | M23 |
| T 24 | 11 54 24 | 0♈27'28 | 11♒37 | 3°29 | 6°17 | 14° 6 | 14°10 | 1°47 | 14°17 | 22°14 | 18°46 | 10°54 | 11°34 | 4°49 | n.a. | T 24 |
| W25 | 11 58 20 | 1°25'50 | 23°59 | 4°22 | 6°35 | 14°48 | 14°18 | 1°42 | 14°21 | 22°16 | 18°47 | 10°53 | 11°30 | 4°56 | n.a. | W25 |
| T 26 | 12 2 17 | 2°24'09 | 6♓36 | 5°18 | 6°50 | 15°30 | 14°25 | 1°37 | 14°24 | 22°17 | 18°48 | 10°52 | 11°27 | 5° 3 | n.a. | T 26 |
| F 27 | 12 6 13 | 3°22'27 | 19°30 | 6°17 | 7° 4 | 16°12 | 14°33 | 1°33 | 14°27 | 22°19 | 18°49 | 10°51 | 11°24 | 5° 9 | n.a. | F 27 |
| S 28 | 12 10 10 | 4°20'42 | 2♈40 | 7°19 | 7°15 | 16°54 | 14°40 | 1°28 | 14°31 | 22°21 | 18°50 | 10°50 | 11°21 | 5°16 | n.a. | S 28 |
| S 29 | 12 14 6 | 5°18'56 | 16° 7 | 8°24 | 7°25 | 17°36 | 14°47 | 1°24 | 14°34 | 22°22 | 18°51 | 10°D50 | 11°18 | 5°23 | n.a. | S 29 |
| M30 | 12 18 3 | 6°17'08 | 29°49 | 9°31 | 7°32 | 18°18 | 14°54 | 1°19 | 14°38 | 22°24 | 18°52 | 10°50 | 11°15 | 5°30 | n.a. | M30 |
| T 31 | 12 21 59 | 7♈15'19 | 13♉43 | 10♓41 | 7♉37 | 19♑ 0 | 15♑ 1 | 1♎15 | 14♈41 | 22♉26 | 18♉53 | 10♈51 | 11♈11 | 5♑36 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| S 1 | 8s41 | 2n22 | 0s23 | 7s38 | 3n 2 | 12n29 | 3n52 | 24s10 | 0s28 | 23s32 | 0s16 | 1n12 | 2n49 | 4n42 | 0s34 | 16n52 | 1s36 | 8n25 | 9s28 | 4n26 | 5n 6 | 28s45 | | | n.a. |
| M 2 | 8 19 | 8 41 | 0n49 | 8 6 | 2 50 | 12 53 | 3 58 | 24 11 | 0 29 | 23 32 | 0 16 | 1 14 | 2 49 | 4 43 | 0 34 | 16 52 | 1 36 | 8 25 | 9 28 | 4 26 | 5 5 | 28 45 | | | n.a. |
| T 3 | 7 56 | 14 42 | 2 0 | 8 35 | 2 38 | 13 16 | 4 4 | 24 13 | 0 30 | 23 31 | 0 16 | 1 15 | 2 49 | 4 44 | 0 33 | 16 53 | 1 36 | 8 25 | 9 27 | 4 27 | 5 4 | 28 45 | | | n.a. |
| W 4 | 7 34 | 20 7 | 3 5 | 9 3 | 2 24 | 13 39 | 4 10 | 24 14 | 0 32 | 23 30 | 0 16 | 1 17 | 2 49 | 4 46 | 0 33 | 16 53 | 1 36 | 8 26 | 9 27 | 4 27 | 5 2 | 28 45 | | | n.a. |
| T 5 | 7 11 | 24 31 | 4 0 | 9 31 | 2 9 | 14 2 | 4 16 | 24 15 | 0 33 | 23 30 | 0 17 | 1 19 | 2 49 | 4 47 | 0 33 | 16 53 | 1 36 | 8 26 | 9 27 | 4 28 | 5 1 | 28 45 | | | n.a. |
| F 6 | 6 48 | 27 32 | 4 42 | 9 57 | 1 54 | 14 24 | 4 22 | 24 16 | 0 34 | 23 29 | 0 17 | 1 21 | 2 49 | 4 48 | 0 33 | 16 54 | 1 36 | 8 27 | 9 27 | 4 28 | 5 0 | 28 45 | | | n.a. |
| S 7 | 6 25 | 28 49 | 5 7 | 10 22 | 1 39 | 14 45 | 4 28 | 24 17 | 0 35 | 23 28 | 0 17 | 1 22 | 2 50 | 4 49 | 0 33 | 16 54 | 1 36 | 8 27 | 9 27 | 4 27 | 4 59 | 28 45 | | | n.a. |
| S 8 | 6 2 | 28 10 | 5 13 | 10 45 | 1 23 | 15 6 | 4 34 | 24 17 | 0 37 | 23 27 | 0 17 | 1 24 | 2 50 | 4 50 | 0 33 | 16 54 | 1 36 | 8 27 | 9 26 | 4 27 | 4 57 | 28 45 | | | n.a. |
| M 9 | 5 39 | 25 38 | 4 59 | 11 7 | 1 7 | 15 27 | 4 39 | 24 17 | 0 38 | 23 27 | 0 17 | 1 26 | 2 50 | 4 52 | 0 33 | 16 55 | 1 35 | 8 28 | 9 26 | 4 26 | 4 56 | 28 45 | | | n.a. |
| T 10 | 5 16 | 21 27 | 4 27 | 11 26 | 0 52 | 15 46 | 4 45 | 24 17 | 0 39 | 23 26 | 0 17 | 1 28 | 2 50 | 4 53 | 0 33 | 16 55 | 1 35 | 8 28 | 9 26 | 4 24 | 4 55 | 28 45 | | | n.a. |
| W11 | 4 53 | 16 3 | 3 38 | 11 44 | 0 37 | 16 6 | 4 50 | 24 17 | 0 41 | 23 25 | 0 17 | 1 30 | 2 50 | 4 54 | 0 33 | 16 55 | 1 35 | 8 29 | 9 26 | 4 23 | 4 54 | 28 45 | | | n.a. |
| T 12 | 4 30 | 9 51 | 2 36 | 11 59 | 0 22 | 16 25 | 4 56 | 24 17 | 0 42 | 23 25 | 0 18 | 1 31 | 2 50 | 4 56 | 0 33 | 16 56 | 1 35 | 8 29 | 9 25 | 4 22 | 4 52 | 28 45 | | | n.a. |
| F 13 | 4 7 | 3 17 | 1 26 | 12 12 | 0 7 | 16 43 | 5 1 | 24 16 | 0 43 | 23 24 | 0 18 | 1 33 | 2 50 | 4 57 | 0 33 | 16 56 | 1 35 | 8 30 | 9 25 | 4 21 | 4 51 | 28 45 | | | n.a. |
| S 14 | 3 43 | 3s17 | 0 12 | 12 22 | 0s 7 | 17 0 | 5 6 | 24 15 | 0 44 | 23 23 | 0 18 | 1 35 | 2 50 | 4 58 | 0 33 | 16 56 | 1 35 | 8 30 | 9 25 | 4 21 | 4 50 | 28 45 | | | n.a. |
| S 15 | 3 20 | 9 34 | 1s 0 | 12 31 | 0 21 | 17 17 | 5 12 | 24 14 | 0 46 | 23 22 | 0 18 | 1 37 | 2 50 | 4 59 | 0 33 | 16 57 | 1 35 | 8 30 | 9 25 | 4 21 | 4 49 | 28 45 | | | n.a. |
| M16 | 2 57 | 15 16 | 2 8 | 12 37 | 0 34 | 17 33 | 5 17 | 24 13 | 0 47 | 23 22 | 0 18 | 1 39 | 2 50 | 5 1 | 0 33 | 16 57 | 1 35 | 8 31 | 9 25 | 4 21 | 4 47 | 28 44 | | | n.a. |
| T 17 | 2 33 | 20 12 | 3 8 | 12 41 | 0 47 | 17 49 | 5 21 | 24 11 | 0 48 | 23 21 | 0 18 | 1 41 | 2 50 | 5 2 | 0 33 | 16 58 | 1 35 | 8 31 | 9 24 | 4 22 | 4 46 | 28 44 | | | n.a. |
| W18 | 2 10 | 24 10 | 3 58 | 12 43 | 0 58 | 18 3 | 5 26 | 24 10 | 0 50 | 23 20 | 0 19 | 1 42 | 2 51 | 5 3 | 0 33 | 16 58 | 1 35 | 8 32 | 9 24 | 4 22 | 4 45 | 28 44 | | | n.a. |
| T 19 | 1 46 | 27 0 | 4 36 | 12 42 | 1 10 | 18 18 | 5 31 | 24 8 | 0 51 | 23 20 | 0 19 | 1 44 | 2 51 | 5 5 | 0 33 | 16 58 | 1 35 | 8 32 | 9 24 | 4 23 | 4 44 | 28 44 | | | n.a. |
| F 20 | 1 23 | 28 35 | 5 2 | 12 40 | 1 20 | 18 31 | 5 35 | 24 6 | 0 53 | 23 19 | 0 19 | 1 46 | 2 51 | 5 6 | 0 33 | 16 59 | 1 35 | 8 33 | 9 24 | 4 23 | 4 42 | 28 44 | | | n.a. |
| S 21 | 0 59 | 28 49 | 5 14 | 12 35 | 1 31 | 18 43 | 5 39 | 24 3 | 0 54 | 23 18 | 0 19 | 1 48 | 2 51 | 5 7 | 0 33 | 16 59 | 1 35 | 8 33 | 9 24 | 4 23 | 4 41 | 28 44 | | | n.a. |
| S 22 | 0 36 | 27 44 | 5 14 | 12 28 | 1 40 | 18 55 | 5 43 | 24 1 | 0 55 | 23 18 | 0 19 | 1 50 | 2 51 | 5 9 | 0 33 | 17 0 | 1 35 | 8 33 | 9 23 | 4 23 | 4 40 | 28 44 | | | n.a. |
| M23 | 0 12 | 25 22 | 5 0 | 12 20 | 1 49 | 19 6 | 5 47 | 23 58 | 0 57 | 23 17 | 0 20 | 1 52 | 2 51 | 5 10 | 0 33 | 17 0 | 1 35 | 8 34 | 9 23 | 4 22 | 4 39 | 28 44 | | | n.a. |
| T 24 | 0n11 | 21 50 | 4 32 | 12 9 | 1 57 | 19 16 | 5 50 | 23 55 | 0 58 | 23 16 | 0 20 | 1 53 | 2 51 | 5 11 | 0 33 | 17 1 | 1 35 | 8 34 | 9 23 | 4 22 | 4 37 | 28 43 | | | n.a. |
| W25 | 0 34 | 17 18 | 3 51 | 11 56 | 2 4 | 19 25 | 5 54 | 23 52 | 1 0 | 23 16 | 0 20 | 1 55 | 2 51 | 5 13 | 0 33 | 17 1 | 1 35 | 8 35 | 9 23 | 4 21 | 4 36 | 28 43 | | | n.a. |
| T 26 | 0 58 | 11 57 | 2 58 | 11 42 | 2 11 | 19 33 | 5 56 | 23 48 | 1 1 | 23 15 | 0 20 | 1 57 | 2 51 | 5 14 | 0 33 | 17 1 | 1 35 | 8 35 | 9 23 | 4 21 | 4 35 | 28 43 | | | n.a. |
| F 27 | 1 21 | 5 58 | 1 55 | 11 25 | 2 17 | 19 40 | 5 59 | 23 45 | 1 2 | 23 14 | 0 20 | 1 59 | 2 51 | 5 15 | 0 33 | 17 2 | 1 35 | 8 36 | 9 22 | 4 20 | 4 34 | 28 43 | | | n.a. |
| S 28 | 1 45 | 0n23 | 0 45 | 11 7 | 2 23 | 19 46 | 6 2 | 23 41 | 1 4 | 23 14 | 0 20 | 2 1 | 2 51 | 5 17 | 0 33 | 17 2 | 1 34 | 8 36 | 9 22 | 4 20 | 4 32 | 28 43 | | | n.a. |
| S 29 | 2 8 | 6 52 | 0n29 | 10 47 | 2 28 | 19 51 | 6 4 | 23 37 | 1 5 | 23 13 | 0 21 | 2 3 | 2 51 | 5 18 | 0 33 | 17 3 | 1 34 | 8 37 | 9 22 | 4 20 | 4 31 | 28 43 | | | n.a. |
| M30 | 2 31 | 13 8 | 1 43 | 10 25 | 2 32 | 19 55 | 6 5 | 23 33 | 1 7 | 23 12 | 0 21 | 2 4 | 2 51 | 5 19 | 0 33 | 17 3 | 1 34 | 8 37 | 9 22 | 4 20 | 4 30 | 28 42 | | | n.a. |
| T 31 | 2n55 | 18n52 | 2n52 | 10s 2 | 2s35 | 19n58 | 6n 7 | 23s28 | 1s 8 | 23s12 | 0s21 | 2n 6 | 2n51 | 5n21 | 0s33 | 17n 4 | 1s34 | 8n37 | 9s22 | 4n20 | 4n28 | 28s42 | | | n.a. |

Julian Day Number = 1692262.5, Delta T = 03h09m52s
Ecliptic obliquity = 23°42'26, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°10'00, Lahiri = - 5°03'00 Julian Calendar 1 March 80 BCE == Greg. Calendar 27 Feb. 080 BCE

The year -79 astronomical counting style corresponds to year 080 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 80 BCE
# geocentric

## APRIL 80 BCE (-79) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 12 25 56 | 8♈13'27 | 27♉47 | 11♓54 | 7♉39 | 19♊42 | 15♊ 8 | 1°R10 | 14♈45 | 22♉27 | 18♉54 | 10♈51 | 11♈ 8 | 5♊43 | n.a. | W 1 |
| T 2 | 12 29 52 | 9°11'33 | 11♊57 | 13° 8 | 7°R39 | 20°23 | 15°14 | 1♎ 6 | 14°48 | 22°29 | 18°55 | 10°51 | 11° 5 | 5°50 | n.a. | T 2 |
| F 3 | 12 33 49 | 10° 9'37 | 26°11 | 14°26 | 7°37 | 21° 5 | 15°21 | 1° 1 | 14°51 | 22°31 | 18°56 | 10°51 | 11° 2 | 5°56 | n.a. | F 3 |
| S 4 | 12 37 46 | 11° 7'39 | 10♋26 | 15°45 | 7°32 | 21°47 | 15°27 | 0°57 | 14°55 | 22°32 | 18°57 | 10°51 | 10°59 | 6° 3 | n.a. | S 4 |
| S 5 | 12 41 42 | 12° 5'39 | 24°38 | 17° 7 | 7°25 | 22°29 | 15°33 | 0°53 | 14°58 | 22°34 | 18°59 | 10°51 | 10°55 | 6°10 | n.a. | S 5 |
| M 6 | 12 45 39 | 13° 3'38 | 8♌47 | 18°30 | 7°16 | 23°10 | 15°39 | 0°48 | 15° 2 | 22°36 | 19° 0 | 10°52 | 10°52 | 6°17 | n.a. | M 6 |
| T 7 | 12 49 35 | 14° 1'34 | 22°48 | 19°56 | 7° 4 | 23°52 | 15°45 | 0°44 | 15° 5 | 22°38 | 19° 1 | 10°52 | 10°49 | 6°23 | n.a. | T 7 |
| W 8 | 12 53 32 | 14°59'28 | 6♍41 | 21°24 | 6°49 | 24°34 | 15°51 | 0°39 | 15° 9 | 22°40 | 19° 2 | 10°52 | 10°46 | 6°30 | n.a. | W 8 |
| T 9 | 12 57 28 | 15°57'20 | 20°23 | 22°54 | 6°32 | 25°15 | 15°56 | 0°35 | 15°12 | 22°42 | 19° 3 | 10°53 | 10°43 | 6°37 | n.a. | T 9 |
| F 10 | 13 1 25 | 16°55'10 | 3♎52 | 24°27 | 6°13 | 25°57 | 16° 1 | 0°31 | 15°16 | 22°43 | 19° 4 | 10°53 | 10°40 | 6°43 | n.a. | F 10 |
| S 11 | 13 5 21 | 17°52'59 | 17° 6 | 26° 1 | 5°51 | 26°39 | 16° 6 | 0°27 | 15°19 | 22°45 | 19° 6 | 10°R53 | 10°36 | 6°50 | n.a. | S 11 |
| S 12 | 13 9 18 | 18°50'46 | 0♏ 5 | 27°37 | 5°28 | 27°20 | 16°11 | 0°22 | 15°23 | 22°47 | 19° 7 | 10°52 | 10°33 | 6°57 | n.a. | S 12 |
| M13 | 13 13 15 | 19°48'32 | 12°49 | 29°15 | 5° 2 | 28° 1 | 16°16 | 0°18 | 15°26 | 22°49 | 19° 8 | 10°52 | 10°30 | 7° 4 | n.a. | M13 |
| T 14 | 13 17 11 | 20°46'16 | 25°18 | 0♈56 | 4°34 | 28°43 | 16°21 | 0°14 | 15°29 | 22°51 | 19° 9 | 10°50 | 10°27 | 7°10 | n.a. | T 14 |
| W15 | 13 21 8 | 21°43'59 | 7♐33 | 2°38 | 4° 4 | 29°24 | 16°25 | 0°10 | 15°33 | 22°53 | 19°11 | 10°49 | 10°24 | 7°17 | n.a. | W15 |
| T 16 | 13 25 4 | 22°41'41 | 19°38 | 4°23 | 3°33 | 0♒ 6 | 16°30 | 0° 6 | 15°36 | 22°55 | 19°12 | 10°47 | 10°21 | 7°24 | n.a. | T 16 |
| F 17 | 13 29 1 | 23°39'22 | 1♑35 | 6° 9 | 3° 0 | 0°47 | 16°34 | 0° 2 | 15°40 | 22°57 | 19°13 | 10°46 | 10°17 | 7°31 | n.a. | F 17 |
| S 18 | 13 32 57 | 24°37'01 | 13°29 | 7°58 | 2°25 | 1°28 | 16°38 | 29♍58 | 15°43 | 22°59 | 19°14 | 10°45 | 10°14 | 7°37 | n.a. | S 18 |
| S 19 | 13 36 54 | 25°34'39 | 25°23 | 9°48 | 1°50 | 2° 9 | 16°41 | 29°54 | 15°47 | 23° 1 | 19°16 | 10°D45 | 10°11 | 7°44 | n.a. | S 19 |
| M20 | 13 40 50 | 26°32'16 | 7♒23 | 11°41 | 1°13 | 2°50 | 16°45 | 29°51 | 15°50 | 23° 3 | 19°17 | 10°45 | 10° 8 | 7°51 | n.a. | M20 |
| T 21 | 13 44 47 | 27°29'52 | 19°32 | 13°36 | 0°36 | 3°31 | 16°48 | 29°47 | 15°54 | 23° 5 | 19°18 | 10°46 | 10° 5 | 7°57 | n.a. | T 21 |
| W22 | 13 48 44 | 28°27'27 | 1♓55 | 15°32 | 29♈58 | 4°12 | 16°52 | 29°43 | 15°57 | 23° 7 | 19°20 | 10°47 | 10° 1 | 8° 4 | n.a. | W22 |
| T 23 | 13 52 40 | 29°25'01 | 14°37 | 17°31 | 29°21 | 4°53 | 16°55 | 29°39 | 16° 0 | 23° 9 | 19°21 | 10°49 | 9°58 | 8°11 | n.a. | T 23 |
| F 24 | 13 56 37 | 0♉22'33 | 27°39 | 19°31 | 28°43 | 5°34 | 16°58 | 29°36 | 16° 4 | 23°11 | 19°22 | 10°50 | 9°55 | 8°18 | n.a. | F 24 |
| S 25 | 14 0 33 | 1°20'05 | 11♈ 3 | 21°33 | 28° 5 | 6°15 | 17° 0 | 29°32 | 16° 7 | 23°13 | 19°24 | 10°R50 | 9°52 | 8°24 | n.a. | S 25 |
| S 26 | 14 4 30 | 2°17'36 | 24°49 | 23°37 | 27°28 | 6°55 | 17° 3 | 29°29 | 16°10 | 23°16 | 19°25 | 10°50 | 9°49 | 8°31 | n.a. | S 26 |
| M27 | 14 8 26 | 3°15'05 | 8♉55 | 25°43 | 26°52 | 7°36 | 17° 5 | 29°25 | 16°14 | 23°18 | 19°26 | 10°48 | 9°46 | 8°38 | n.a. | M27 |
| T 28 | 14 12 23 | 4°12'33 | 23°17 | 27°50 | 26°17 | 8°17 | 17° 7 | 29°22 | 16°17 | 23°20 | 19°28 | 10°46 | 9°42 | 8°45 | n.a. | T 28 |
| W29 | 14 16 19 | 5°10'00 | 7♊48 | 29°58 | 25°43 | 8°57 | 17° 9 | 29°19 | 16°20 | 23°22 | 19°29 | 10°42 | 9°39 | 8°51 | n.a. | W29 |
| T 30 | 14 20 16 | 6♉ 7'26 | 22♊24 | 2♉ 8 | 25♈10 | 9♒37 | 17♊11 | 29♍16 | 16♈24 | 23♉24 | 19♉30 | 10♈39 | 9♈36 | 8♊58 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 3n18 | 23n39 | 3n52 | 9s37 | 2s38 | 20n 0 | 6n 7 | 23s24 | 1s10 | 23s11 | 0s21 | 2n 8 | 2n51 | 5n22 | 0s33 | 17n 4 | 1s34 | 8n38 | 9s21 | 4n20 | 4n27 | 28s42 | | n.a. |
| T 2 | 3 41 | 27 3 | 4 37 | 9 10 | 2 41 | 20 0 | 6 8 | 23 19 | 1 11 | 23 11 | 0 21 | 2 10 | 2 51 | 5 23 | 0 33 | 17 5 | 1 34 | 8 38 | 9 21 | 4 21 | 4 26 | 28 42 | | n.a. |
| F 3 | 4 4 | 28 45 | 5 6 | 8 41 | 2 43 | 19 59 | 6 8 | 23 14 | 1 13 | 23 10 | 0 22 | 2 12 | 2 51 | 5 25 | 0 33 | 17 5 | 1 34 | 8 39 | 9 21 | 4 21 | 4 25 | 28 42 | | n.a. |
| S 4 | 4 27 | 28 33 | 5 17 | 8 11 | 2 44 | 19 57 | 6 7 | 23 9 | 1 14 | 23 10 | 0 22 | 2 13 | 2 51 | 5 26 | 0 33 | 17 6 | 1 34 | 8 39 | 9 21 | 4 21 | 4 23 | 28 41 | | n.a. |
| S 5 | 4 50 | 26 29 | 5 8 | 7 40 | 2 44 | 19 54 | 6 6 | 23 3 | 1 16 | 23 9 | 0 22 | 2 15 | 2 51 | 5 27 | 0 33 | 17 6 | 1 34 | 8 40 | 9 21 | 4 21 | 4 22 | 28 41 | | n.a. |
| M 6 | 5 13 | 22 46 | 4 40 | 7 7 | 2 44 | 19 49 | 6 5 | 22 58 | 1 17 | 23 9 | 0 22 | 2 17 | 2 50 | 5 29 | 0 33 | 17 7 | 1 34 | 8 40 | 9 21 | 4 21 | 4 21 | 28 41 | | n.a. |
| T 7 | 5 36 | 17 46 | 3 56 | 6 32 | 2 44 | 19 43 | 6 3 | 22 52 | 1 19 | 23 8 | 0 22 | 2 18 | 2 50 | 5 30 | 0 33 | 17 7 | 1 34 | 8 41 | 9 20 | 4 21 | 4 20 | 28 40 | | n.a. |
| W 8 | 5 58 | 11 55 | 2 58 | 5 56 | 2 42 | 19 36 | 6 0 | 22 46 | 1 20 | 23 8 | 0 22 | 2 20 | 2 50 | 5 31 | 0 33 | 17 8 | 1 34 | 8 41 | 9 20 | 4 21 | 4 18 | 28 40 | | n.a. |
| T 9 | 6 21 | 5 33 | 1 51 | 5 18 | 2 41 | 19 27 | 5 57 | 22 40 | 1 22 | 23 7 | 0 23 | 2 22 | 2 50 | 5 33 | 0 33 | 17 8 | 1 34 | 8 42 | 9 20 | 4 21 | 4 17 | 28 40 | | n.a. |
| F 10 | 6 43 | 0s58 | 0 39 | 4 39 | 2 38 | 19 17 | 5 53 | 22 34 | 1 23 | 23 7 | 0 23 | 2 23 | 2 50 | 5 34 | 0 33 | 17 9 | 1 34 | 8 42 | 9 20 | 4 21 | 4 16 | 28 40 | | n.a. |
| S 11 | 7 6 | 7 19 | 0s34 | 3 58 | 2 35 | 19 5 | 5 49 | 22 27 | 1 25 | 23 6 | 0 23 | 2 25 | 2 50 | 5 35 | 0 33 | 17 9 | 1 34 | 8 43 | 9 20 | 4 21 | 4 15 | 28 39 | | n.a. |
| S 12 | 7 28 | 13 15 | 1 44 | 3 17 | 2 32 | 18 52 | 5 43 | 22 21 | 1 27 | 23 6 | 0 23 | 2 27 | 2 50 | 5 37 | 0 33 | 17 10 | 1 34 | 8 43 | 9 20 | 4 21 | 4 13 | 28 39 | | n.a. |
| M13 | 7 50 | 18 31 | 2 48 | 2 33 | 2 28 | 18 38 | 5 38 | 22 14 | 1 28 | 23 6 | 0 23 | 2 28 | 2 50 | 5 38 | 0 33 | 17 10 | 1 34 | 8 43 | 9 20 | 4 21 | 4 12 | 28 39 | | n.a. |
| T 14 | 8 12 | 22 53 | 3 42 | 1 49 | 2 23 | 18 22 | 5 31 | 22 7 | 1 30 | 23 5 | 0 24 | 2 30 | 2 50 | 5 40 | 0 33 | 17 11 | 1 34 | 8 44 | 9 19 | 4 20 | 4 11 | 28 38 | | n.a. |
| W15 | 8 34 | 26 9 | 4 24 | 1 3 | 2 18 | 18 5 | 5 24 | 22 0 | 1 31 | 23 5 | 0 24 | 2 31 | 2 50 | 5 41 | 0 33 | 17 11 | 1 34 | 8 44 | 9 19 | 4 20 | 4 10 | 28 38 | | n.a. |
| T 16 | 8 55 | 28 11 | 4 55 | 0 16 | 2 12 | 17 46 | 5 16 | 21 52 | 1 33 | 23 4 | 0 24 | 2 33 | 2 50 | 5 42 | 0 33 | 17 12 | 1 34 | 8 45 | 9 19 | 4 19 | 4 8 | 28 38 | | n.a. |
| F 17 | 9 17 | 28 54 | 5 12 | 0n33 | 2 6 | 17 27 | 5 7 | 21 45 | 1 35 | 23 4 | 0 24 | 2 34 | 2 50 | 5 44 | 0 33 | 17 12 | 1 34 | 8 45 | 9 19 | 4 18 | 4 7 | 28 37 | | n.a. |
| S 18 | 9 38 | 28 15 | 5 15 | 1 22 | 1 59 | 17 6 | 4 58 | 21 37 | 1 36 | 23 4 | 0 24 | 2 36 | 2 49 | 5 45 | 0 33 | 17 13 | 1 34 | 8 46 | 9 19 | 4 18 | 4 6 | 28 37 | | n.a. |
| S 19 | 10 0 | 26 18 | 5 6 | 2 13 | 1 52 | 16 44 | 4 48 | 21 29 | 1 38 | 23 4 | 0 25 | 2 37 | 2 49 | 5 46 | 0 33 | 17 14 | 1 34 | 8 46 | 9 19 | 4 18 | 4 5 | 28 37 | | n.a. |
| M20 | 10 21 | 23 11 | 4 42 | 3 4 | 1 45 | 16 22 | 4 38 | 21 21 | 1 40 | 23 3 | 0 25 | 2 39 | 2 49 | 5 48 | 0 33 | 17 14 | 1 34 | 8 47 | 9 19 | 4 18 | 4 3 | 28 36 | | n.a. |
| T 21 | 10 42 | 19 1 | 4 6 | 3 57 | 1 36 | 15 58 | 4 27 | 21 13 | 1 41 | 23 3 | 0 25 | 2 40 | 2 49 | 5 49 | 0 33 | 17 15 | 1 34 | 8 47 | 9 19 | 4 18 | 4 2 | 28 36 | | n.a. |
| W22 | 11 3 | 13 59 | 3 18 | 4 50 | 1 28 | 15 34 | 4 15 | 21 5 | 1 43 | 23 3 | 0 25 | 2 41 | 2 49 | 5 50 | 0 33 | 17 15 | 1 34 | 8 48 | 9 18 | 4 19 | 4 1 | 28 35 | | n.a. |
| T 23 | 11 23 | 8 16 | 2 20 | 5 44 | 1 19 | 15 9 | 4 3 | 20 57 | 1 45 | 23 3 | 0 26 | 2 43 | 2 49 | 5 52 | 0 33 | 17 16 | 1 33 | 8 48 | 9 18 | 4 20 | 4 0 | 28 35 | | n.a. |
| F 24 | 11 44 | 2 3 | 1 12 | 6 39 | 1 10 | 14 43 | 3 51 | 20 48 | 1 46 | 23 3 | 0 26 | 2 44 | 2 49 | 5 53 | 0 33 | 17 16 | 1 33 | 8 48 | 9 18 | 4 20 | 3 58 | 28 35 | | n.a. |
| S 25 | 12 4 | 4n26 | 0n 1 | 7 34 | 1 0 | 14 18 | 3 38 | 20 40 | 1 48 | 23 2 | 0 26 | 2 45 | 2 48 | 5 54 | 0 33 | 17 17 | 1 33 | 8 49 | 9 18 | 4 20 | 3 57 | 28 34 | | n.a. |
| S 26 | 12 24 | 10 54 | 1 16 | 8 30 | 0 50 | 13 52 | 3 25 | 20 31 | 1 50 | 23 2 | 0 26 | 2 47 | 2 48 | 5 55 | 0 33 | 17 17 | 1 33 | 8 49 | 9 18 | 4 20 | 3 56 | 28 34 | | n.a. |
| M27 | 12 44 | 16 58 | 2 28 | 9 26 | 0 40 | 13 26 | 3 11 | 20 22 | 1 51 | 23 2 | 0 26 | 2 48 | 2 48 | 5 57 | 0 33 | 17 18 | 1 33 | 8 50 | 9 18 | 4 19 | 3 54 | 28 33 | | n.a. |
| T 28 | 13 4 | 22 13 | 3 32 | 10 22 | 0 29 | 13 0 | 2 57 | 20 13 | 1 53 | 23 2 | 0 27 | 2 49 | 2 48 | 5 58 | 0 33 | 17 18 | 1 33 | 8 50 | 9 18 | 4 18 | 3 53 | 28 33 | | n.a. |
| W29 | 13 23 | 26 11 | 4 23 | 11 18 | 0 19 | 12 35 | 2 43 | 20 4 | 1 55 | 23 2 | 0 27 | 2 50 | 2 48 | 5 59 | 0 33 | 17 19 | 1 33 | 8 51 | 9 18 | 4 17 | 3 52 | 28 32 | | n.a. |
| T 30 | 13n43 | 28n26 | 4n58 | 12n13 | 0s 8 | 12n 9 | 2n29 | 19s54 | 1s56 | 23s 2 | 0s27 | 2n51 | 2n48 | 6n 1 | 0s33 | 17n20 | 1s33 | 8n51 | 9s18 | 4n16 | 3n51 | 28s32 | | n.a. |

Julian Day Number = 1692293.5, Delta T = 03h09m51s
Ecliptic obliquity = 23°42'26, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°09'56, Lahiri = - 5°02'56 Julian Calendar 1 Apr. 80 BCE == Greg. Calendar 30 March 080 BCE

The year -79 astronomical counting style corresponds to year 080 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 80 BCE
# geocentric

## MAY 80 BCE (-79) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 14 24 13 | 7♉ 4'51 | 6♋57 | 4♉19 | 24°R39 | 10♒18 | 17♏13 | 29°R13 | 16♈27 | 23♉26 | 19♉32 | 10°R36 | 9♈33 | 9♏ 5 | n.a. | F 1 |
| S 2 | 14 28 9 | 8° 2'14 | 21°23 | 6°30 | 24♈ 9 | 10°58 | 17°14 | 29♍10 | 16°30 | 23°28 | 19°33 | 10♈34 | 9°30 | 9°11 | n.a. | S 2 |
| S 3 | 14 32 6 | 8°59'36 | 5♌37 | 8°41 | 23°41 | 11°38 | 17°15 | 29° 7 | 16°34 | 23°31 | 19°34 | 10°D33 | 9°27 | 9°18 | n.a. | S 3 |
| M 4 | 14 36 2 | 9°56'57 | 19°38 | 10°53 | 23°16 | 12°18 | 17°16 | 29° 4 | 16°37 | 23°33 | 19°36 | 10°33 | 9°23 | 9°25 | n.a. | M 4 |
| T 5 | 14 39 59 | 10°54'16 | 3♍24 | 13° 5 | 22°52 | 12°58 | 17°17 | 29° 1 | 16°40 | 23°35 | 19°37 | 10°35 | 9°20 | 9°32 | n.a. | T 5 |
| W 6 | 14 43 55 | 11°51'35 | 16°56 | 15°16 | 22°31 | 13°38 | 17°18 | 28°58 | 16°43 | 23°37 | 19°39 | 10°36 | 9°17 | 9°38 | n.a. | W 6 |
| T 7 | 14 47 52 | 12°48'51 | 0♎13 | 17°27 | 22°11 | 14°18 | 17°18 | 28°55 | 16°46 | 23°39 | 19°40 | 10°37 | 9°14 | 9°45 | n.a. | T 7 |
| F 8 | 14 51 48 | 13°46'07 | 13°18 | 19°37 | 21°54 | 14°57 | 17°18 | 28°53 | 16°50 | 23°42 | 19°41 | 10°R38 | 9°11 | 9°52 | n.a. | F 8 |
| S 9 | 14 55 45 | 14°43'22 | 26°10 | 21°45 | 21°40 | 15°37 | 17°R18 | 28°50 | 16°53 | 23°44 | 19°43 | 10°37 | 9° 7 | 9°58 | n.a. | S 9 |
| S 10 | 14 59 42 | 15°40'37 | 8♏51 | 23°53 | 21°28 | 16°16 | 17°18 | 28°48 | 16°56 | 23°46 | 19°44 | 10°34 | 9° 4 | 10° 5 | n.a. | S 10 |
| M11 | 15 3 38 | 16°37'50 | 21°20 | 25°58 | 21°18 | 16°56 | 17°18 | 28°46 | 16°59 | 23°48 | 19°46 | 10°30 | 9° 1 | 10°12 | n.a. | M11 |
| T 12 | 15 7 35 | 17°35'03 | 3♐38 | 28° 3 | 21°11 | 17°35 | 17°17 | 28°43 | 17° 2 | 23°51 | 19°47 | 10°24 | 8°58 | 10°19 | n.a. | T 12 |
| W13 | 15 11 31 | 18°32'15 | 15°47 | 0♊ 5 | 21° 6 | 18°14 | 17°17 | 28°41 | 17° 5 | 23°53 | 19°48 | 10°17 | 8°55 | 10°25 | n.a. | W13 |
| T 14 | 15 15 28 | 19°29'27 | 27°49 | 2° 5 | 21° 4 | 18°53 | 17°16 | 28°39 | 17° 8 | 23°55 | 19°50 | 10°10 | 8°52 | 10°32 | n.a. | T 14 |
| F 15 | 15 19 24 | 20°26'38 | 9♑44 | 4° 3 | 21°D 4 | 19°32 | 17°15 | 28°37 | 17°11 | 23°57 | 19°51 | 10° 4 | 8°48 | 10°39 | n.a. | F 15 |
| S 16 | 15 23 21 | 21°23'49 | 21°37 | 5°59 | 21° 6 | 20°11 | 17°13 | 28°35 | 17°14 | 23°59 | 19°53 | 9°59 | 8°45 | 10°46 | n.a. | S 16 |
| S 17 | 15 27 18 | 22°20'59 | 3♒30 | 7°53 | 21°10 | 20°49 | 17°12 | 28°34 | 17°17 | 24° 2 | 19°54 | 9°55 | 8°42 | 10°52 | n.a. | S 17 |
| M18 | 15 31 14 | 23°18'09 | 15°28 | 9°45 | 21°17 | 21°28 | 17°10 | 28°32 | 17°20 | 24° 4 | 19°55 | 9°53 | 8°39 | 10°59 | n.a. | M18 |
| T 19 | 15 35 11 | 24°15'19 | 27°35 | 11°34 | 21°26 | 22° 6 | 17° 8 | 28°30 | 17°23 | 24° 6 | 19°57 | 9°D53 | 8°36 | 11° 6 | n.a. | T 19 |
| W20 | 15 39 7 | 25°12'29 | 9♓56 | 13°21 | 21°37 | 22°44 | 17° 6 | 28°29 | 17°26 | 24° 8 | 19°58 | 9°54 | 8°32 | 11°12 | n.a. | W20 |
| T 21 | 15 43 4 | 26° 9'38 | 22°37 | 15° 5 | 21°50 | 23°22 | 17° 4 | 28°27 | 17°29 | 24°11 | 20° 0 | 9°55 | 8°29 | 11°19 | n.a. | T 21 |
| F 22 | 15 47 0 | 27° 6'48 | 5♈40 | 16°48 | 22° 5 | 24° 0 | 17° 2 | 28°26 | 17°32 | 24°13 | 20° 1 | 9°R56 | 8°26 | 11°26 | n.a. | F 22 |
| S 23 | 15 50 57 | 28° 3'57 | 19° 9 | 18°28 | 22°22 | 24°38 | 16°59 | 28°25 | 17°35 | 24°15 | 20° 2 | 9°55 | 8°23 | 11°33 | n.a. | S 23 |
| S 24 | 15 54 53 | 29° 1'06 | 3♉ 5 | 20° 5 | 22°41 | 25°16 | 16°56 | 28°24 | 17°37 | 24°17 | 20° 4 | 9°53 | 8°20 | 11°39 | n.a. | S 24 |
| M25 | 15 58 50 | 29°58'15 | 17°26 | 21°40 | 23° 2 | 25°53 | 16°53 | 28°23 | 17°40 | 24°20 | 20° 5 | 9°49 | 8°17 | 11°46 | n.a. | M25 |
| T 26 | 16 2 47 | 0♊55'24 | 2♊ 8 | 23°13 | 23°24 | 26°30 | 16°50 | 28°22 | 17°43 | 24°22 | 20° 6 | 9°43 | 8°13 | 11°53 | n.a. | T 26 |
| W27 | 16 6 43 | 1°52'32 | 17° 4 | 24°43 | 23°48 | 27° 7 | 16°47 | 28°21 | 17°46 | 24°24 | 20° 8 | 9°36 | 8°10 | 12° 0 | n.a. | W27 |
| T 28 | 16 10 40 | 2°49'41 | 2♋ 4 | 26°11 | 24°14 | 27°44 | 16°43 | 28°20 | 17°48 | 24°26 | 20° 9 | 9°28 | 8° 7 | 12° 6 | n.a. | T 28 |
| F 29 | 16 14 36 | 3°46'49 | 17° 0 | 27°37 | 24°41 | 28°21 | 16°40 | 28°19 | 17°51 | 24°28 | 20°11 | 9°20 | 8° 4 | 12°13 | n.a. | F 29 |
| S 30 | 16 18 33 | 4°43'57 | 1♌43 | 28°59 | 25°10 | 28°58 | 16°36 | 28°19 | 17°54 | 24°31 | 20°12 | 9°15 | 8° 1 | 12°20 | n.a. | S 30 |
| S 31 | 16 22 29 | 5♊41'04 | 16♌ 8 | 0♋20 | 25♈40 | 29♒34 | 16♏32 | 28♍18 | 17♈56 | 24♉33 | 20♉13 | 9♈11 | 7♈58 | 12♏26 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 14n 2 | 28n43 | 5n13 | 13n 8 | 0n 3 | 11n45 | 2n15 | 19s45 | 1s58 | 23s 2 | 0s27 | 2n52 | 2n47 | 6n 2 | 0s33 | 17n20 | 1s33 | 8n52 | 9s17 | 4n15 | 3n49 | 28s31 | | n.a. |
| S 2 | 14 21 | 27 3 | 5 8 | 14 2 | 0 13 | 11 20 | 2 1 | 19 36 | 2 0 | 23 2 | 0 27 | 2 53 | 2 47 | 6 3 | 0 33 | 17 21 | 1 33 | 8 52 | 9 17 | 4 14 | 3 48 | 28 31 | | n.a. |
| S 3 | 14 39 | 23 39 | 4 44 | 14 56 | 0 24 | 10 57 | 1 47 | 19 26 | 2 2 | 23 2 | 0 28 | 2 54 | 2 47 | 6 4 | 0 33 | 17 21 | 1 33 | 8 52 | 9 17 | 4 13 | 3 47 | 28 31 | | n.a. |
| M 4 | 14 58 | 18 56 | 4 3 | 15 47 | 0 34 | 10 34 | 1 33 | 19 16 | 2 3 | 23 2 | 0 28 | 2 55 | 2 47 | 6 6 | 0 33 | 17 22 | 1 33 | 8 53 | 9 17 | 4 13 | 3 46 | 28 30 | | n.a. |
| T 5 | 15 16 | 13 19 | 3 10 | 16 38 | 0 44 | 10 13 | 1 19 | 19 6 | 2 5 | 23 2 | 0 28 | 2 56 | 2 47 | 6 7 | 0 33 | 17 22 | 1 33 | 8 53 | 9 17 | 4 14 | 3 44 | 28 30 | | n.a. |
| W 6 | 15 34 | 7 9 | 2 6 | 17 27 | 0 53 | 9 52 | 1 5 | 18 57 | 2 7 | 23 3 | 0 28 | 2 57 | 2 46 | 6 8 | 0 33 | 17 23 | 1 33 | 8 54 | 9 17 | 4 15 | 3 43 | 28 29 | | n.a. |
| T 7 | 15 51 | 0 46 | 0 57 | 18 14 | 1 2 | 9 32 | 0 52 | 18 47 | 2 9 | 23 3 | 0 29 | 2 58 | 2 46 | 6 9 | 0 33 | 17 24 | 1 33 | 8 54 | 9 17 | 4 15 | 3 42 | 28 28 | | n.a. |
| F 8 | 16 9 | 5s32 | 0s15 | 18 58 | 1 11 | 9 13 | 0 39 | 18 36 | 2 10 | 23 3 | 0 29 | 2 59 | 2 46 | 6 11 | 0 33 | 17 24 | 1 33 | 8 55 | 9 17 | 4 15 | 3 41 | 28 28 | | n.a. |
| S 9 | 16 26 | 11 31 | 1 24 | 19 41 | 1 19 | 8 56 | 0 26 | 18 26 | 2 12 | 23 3 | 0 29 | 3 0 | 2 46 | 6 12 | 0 33 | 17 25 | 1 33 | 8 55 | 9 17 | 4 15 | 3 39 | 28 27 | | n.a. |
| S 10 | 16 43 | 16 56 | 2 28 | 20 21 | 1 27 | 8 40 | 0 13 | 18 16 | 2 14 | 23 3 | 0 29 | 3 1 | 2 46 | 6 13 | 0 33 | 17 25 | 1 33 | 8 55 | 9 17 | 4 14 | 3 38 | 28 27 | | n.a. |
| M11 | 17 0 | 21 33 | 3 23 | 20 59 | 1 34 | 8 25 | 0 1 | 18 6 | 2 16 | 23 4 | 0 30 | 3 1 | 2 45 | 6 14 | 0 33 | 17 26 | 1 33 | 8 56 | 9 17 | 4 12 | 3 37 | 28 26 | | n.a. |
| T 12 | 17 16 | 25 11 | 4 8 | 21 34 | 1 40 | 8 11 | 0s11 | 17 55 | 2 18 | 23 4 | 0 30 | 3 2 | 2 45 | 6 15 | 0 33 | 17 26 | 1 33 | 8 56 | 9 17 | 4 10 | 3 36 | 28 26 | | n.a. |
| W13 | 17 32 | 27 36 | 4 42 | 22 7 | 1 46 | 7 58 | 0 23 | 17 45 | 2 19 | 23 4 | 0 30 | 3 3 | 2 45 | 6 17 | 0 33 | 17 27 | 1 33 | 8 57 | 9 17 | 4 7 | 3 34 | 28 25 | | n.a. |
| T 14 | 17 48 | 28 43 | 5 2 | 22 37 | 1 51 | 7 47 | 0 34 | 17 34 | 2 21 | 23 5 | 0 30 | 3 3 | 2 45 | 6 18 | 0 33 | 17 28 | 1 33 | 8 57 | 9 17 | 4 4 | 3 33 | 28 25 | | n.a. |
| F 15 | 18 4 | 28 29 | 5 9 | 23 5 | 1 55 | 7 37 | 0 45 | 17 23 | 2 23 | 23 5 | 0 30 | 3 4 | 2 45 | 6 19 | 0 33 | 17 28 | 1 33 | 8 57 | 9 17 | 4 2 | 3 32 | 28 24 | | n.a. |
| S 16 | 18 19 | 26 56 | 5 3 | 23 30 | 1 59 | 7 28 | 0 55 | 17 12 | 2 25 | 23 5 | 0 31 | 3 4 | 2 44 | 6 20 | 0 33 | 17 29 | 1 33 | 8 58 | 9 17 | 4 0 | 3 30 | 28 23 | | n.a. |
| S 17 | 18 34 | 24 11 | 4 44 | 23 52 | 2 1 | 7 20 | 1 5 | 17 2 | 2 27 | 23 6 | 0 31 | 3 5 | 2 44 | 6 21 | 0 33 | 17 29 | 1 33 | 8 58 | 9 17 | 3 58 | 3 29 | 28 23 | | n.a. |
| M18 | 18 48 | 20 23 | 4 12 | 24 12 | 2 4 | 7 14 | 1 15 | 16 51 | 2 29 | 23 6 | 0 31 | 3 5 | 2 44 | 6 22 | 0 33 | 17 30 | 1 33 | 8 59 | 9 17 | 3 57 | 3 28 | 28 22 | | n.a. |
| T 19 | 19 3 | 15 42 | 3 29 | 24 29 | 2 5 | 7 9 | 1 24 | 16 40 | 2 30 | 23 7 | 0 31 | 3 6 | 2 44 | 6 24 | 0 33 | 17 30 | 1 33 | 8 59 | 9 16 | 3 57 | 3 27 | 28 22 | | n.a. |
| W20 | 19 17 | 10 19 | 2 35 | 24 44 | 2 6 | 7 5 | 1 33 | 16 29 | 2 32 | 23 7 | 0 32 | 3 6 | 2 43 | 6 25 | 0 33 | 17 31 | 1 33 | 8 59 | 9 16 | 3 58 | 3 25 | 28 21 | | n.a. |
| T 21 | 19 31 | 4 22 | 1 32 | 24 57 | 2 6 | 7 2 | 1 42 | 16 18 | 2 34 | 23 8 | 0 32 | 3 7 | 2 43 | 6 26 | 0 33 | 17 31 | 1 33 | 9 0 | 9 16 | 3 58 | 3 24 | 28 20 | | n.a. |
| F 22 | 19 44 | 1n55 | 0 23 | 25 7 | 2 5 | 7 0 | 1 50 | 16 7 | 2 36 | 23 8 | 0 32 | 3 7 | 2 43 | 6 27 | 0 33 | 17 32 | 1 33 | 9 0 | 9 16 | 3 59 | 3 23 | 28 20 | | n.a. |
| S 23 | 19 57 | 8 20 | 0n50 | 25 15 | 2 4 | 6 59 | 1 58 | 15 56 | 2 38 | 23 9 | 0 32 | 3 7 | 2 43 | 6 28 | 0 33 | 17 33 | 1 33 | 9 1 | 9 16 | 3 58 | 3 22 | 28 19 | | n.a. |
| S 24 | 20 10 | 14 34 | 2 1 | 25 21 | 2 1 | 6 59 | 2 5 | 15 45 | 2 40 | 23 9 | 0 32 | 3 7 | 2 42 | 6 29 | 0 33 | 17 33 | 1 33 | 9 1 | 9 16 | 3 58 | 3 20 | 28 18 | | n.a. |
| M25 | 20 22 | 20 13 | 3 8 | 25 25 | 1 59 | 7 0 | 2 12 | 15 34 | 2 41 | 23 10 | 0 33 | 3 8 | 2 42 | 6 30 | 0 33 | 17 34 | 1 33 | 9 1 | 9 16 | 3 56 | 3 19 | 28 18 | | n.a. |
| T 26 | 20 34 | 24 47 | 4 3 | 25 27 | 1 55 | 7 2 | 2 19 | 15 22 | 2 43 | 23 11 | 0 33 | 3 8 | 2 42 | 6 31 | 0 33 | 17 34 | 1 33 | 9 2 | 9 16 | 3 53 | 3 18 | 28 17 | | n.a. |
| W27 | 20 46 | 27 45 | 4 43 | 25 27 | 1 51 | 7 5 | 2 25 | 15 11 | 2 45 | 23 11 | 0 33 | 3 8 | 2 42 | 6 32 | 0 33 | 17 35 | 1 33 | 9 2 | 9 16 | 3 50 | 3 17 | 28 16 | | n.a. |
| T 28 | 20 58 | 28 44 | 5 3 | 25 26 | 1 47 | 7 9 | 2 32 | 15 0 | 2 47 | 23 12 | 0 33 | 3 8 | 2 41 | 6 33 | 0 33 | 17 35 | 1 33 | 9 2 | 9 16 | 3 47 | 3 15 | 28 16 | | n.a. |
| F 29 | 21 9 | 27 37 | 5 3 | 25 22 | 1 41 | 7 14 | 2 37 | 14 49 | 2 49 | 23 13 | 0 34 | 3 8 | 2 41 | 6 34 | 0 33 | 17 36 | 1 33 | 9 3 | 9 16 | 3 44 | 3 14 | 28 15 | | n.a. |
| S 30 | 21 19 | 24 35 | 4 43 | 25 18 | 1 35 | 7 19 | 2 43 | 14 38 | 2 51 | 23 13 | 0 34 | 3 8 | 2 41 | 6 35 | 0 33 | 17 36 | 1 33 | 9 3 | 9 16 | 3 42 | 3 13 | 28 14 | | n.a. |
| S 31 | 21n30 | 20n 4 | 4n 5 | 25n11 | 1n29 | 7n26 | 2s48 | 14s27 | 2s53 | 23s14 | 0s34 | 3n 8 | 2n41 | 6n36 | 0s33 | 17n37 | 1s33 | 9n 3 | 9s16 | 3n41 | 3n11 | 28s13 | | n.a. |

Julian Day Number = 1692323.5, Delta T = 03h09m50s
Ecliptic obliquity = 23°42'26, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°09'52, Lahiri = - 5°02'52 Julian Calendar 1 May 80 BCE == Greg. Calendar 29 Apr. 080 BCE

The year -79 astronomical counting style corresponds to year 080 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 80 BCE
# geocentric

## JUNE 80 BCE (-79) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 16 26 26 | 6♊38'11 | 0♍11 | 1♋38 | 26♈12 | 0♓10 | 16°R28 | 28°R18 | 17♈59 | 24♉35 | 20♉15 | 9°R 9 | 7♈54 | 12♑33 | n.a. | M 1 |
| T 2 | 16 30 22 | 7°35'18 | 13°53 | 2°53 | 26°45 | 0°46 | 16♑23 | 28♍18 | 18° 1 | 24°37 | 20°16 | 9°D 9 | 7°51 | 12°40 | n.a. | T 2 |
| W 3 | 16 34 19 | 8°32'24 | 27°14 | 4° 5 | 27°19 | 1°22 | 16°19 | 28°18 | 18° 4 | 24°40 | 20°17 | 9♈10 | 7°48 | 12°47 | n.a. | W 3 |
| T 4 | 16 38 16 | 9°29'30 | 10♎16 | 5°15 | 27°55 | 1°57 | 16°14 | 28°D18 | 18° 6 | 24°42 | 20°19 | 9°R10 | 7°45 | 12°53 | n.a. | T 4 |
| F 5 | 16 42 12 | 10°26'36 | 23° 4 | 6°22 | 28°31 | 2°33 | 16° 9 | 28°18 | 18° 9 | 24°44 | 20°20 | 9°10 | 7°42 | 13° 0 | n.a. | F 5 |
| S 6 | 16 46 9 | 11°23'42 | 5♏38 | 7°26 | 29° 9 | 3° 8 | 16° 4 | 28°18 | 18°11 | 24°46 | 20°21 | 9° 7 | 7°38 | 13° 7 | n.a. | S 6 |
| S 7 | 16 50 5 | 12°20'47 | 18° 2 | 8°27 | 29°48 | 3°43 | 15°59 | 28°18 | 18°13 | 24°48 | 20°23 | 9° 1 | 7°35 | 13°14 | n.a. | S 7 |
| M 8 | 16 54 2 | 13°17'53 | 0♐17 | 9°25 | 0♉28 | 4°17 | 15°54 | 28°18 | 18°16 | 24°50 | 20°24 | 8°53 | 7°32 | 13°20 | n.a. | M 8 |
| T 9 | 16 57 58 | 14°14'59 | 12°25 | 10°19 | 1° 9 | 4°52 | 15°48 | 28°19 | 18°18 | 24°52 | 20°25 | 8°43 | 7°29 | 13°27 | n.a. | T 9 |
| W10 | 17 1 55 | 15°12'06 | 24°27 | 11°11 | 1°52 | 5°26 | 15°43 | 28°19 | 18°20 | 24°55 | 20°27 | 8°31 | 7°26 | 13°34 | n.a. | W10 |
| T 11 | 17 5 52 | 16° 9'13 | 6♑23 | 11°59 | 2°35 | 6° 0 | 15°37 | 28°20 | 18°22 | 24°57 | 20°28 | 8°19 | 7°23 | 13°40 | n.a. | T 11 |
| F 12 | 17 9 48 | 17° 6'20 | 18°16 | 12°43 | 3°19 | 6°34 | 15°31 | 28°20 | 18°25 | 24°59 | 20°29 | 8° 7 | 7°19 | 13°47 | n.a. | F 12 |
| S 13 | 17 13 45 | 18° 3'27 | 0♒ 8 | 13°24 | 4° 4 | 7° 7 | 15°25 | 28°21 | 18°27 | 25° 1 | 20°30 | 7°57 | 7°16 | 13°54 | n.a. | S 13 |
| S 14 | 17 17 41 | 19° 0'35 | 12° 0 | 14° 1 | 4°49 | 7°40 | 15°19 | 28°22 | 18°29 | 25° 3 | 20°32 | 7°49 | 7°13 | 14° 1 | n.a. | S 14 |
| M15 | 17 21 38 | 19°57'44 | 23°58 | 14°34 | 5°36 | 8°13 | 15°13 | 28°23 | 18°31 | 25° 5 | 20°33 | 7°44 | 7°10 | 14° 7 | n.a. | M15 |
| T 16 | 17 25 34 | 20°54'53 | 6♓ 3 | 15° 2 | 6°23 | 8°46 | 15° 7 | 28°24 | 18°33 | 25° 7 | 20°34 | 7°41 | 7° 7 | 14°14 | n.a. | T 16 |
| W17 | 17 29 31 | 21°52'03 | 18°22 | 15°27 | 7°12 | 9°18 | 15° 0 | 28°25 | 18°35 | 25° 9 | 20°35 | 7°D40 | 7° 4 | 14°21 | n.a. | W17 |
| T 18 | 17 33 27 | 22°49'14 | 0♈59 | 15°47 | 8° 1 | 9°51 | 14°54 | 28°27 | 18°37 | 25°11 | 20°37 | 7°R40 | 7° 0 | 14°27 | n.a. | T 18 |
| F 19 | 17 37 24 | 23°46'26 | 13°58 | 16° 3 | 8°50 | 10°22 | 14°47 | 28°28 | 18°39 | 25°13 | 20°38 | 7°40 | 6°57 | 14°34 | n.a. | F 19 |
| S 20 | 17 41 21 | 24°43'38 | 27°25 | 16°14 | 9°41 | 10°54 | 14°40 | 28°30 | 18°41 | 25°15 | 20°39 | 7°39 | 6°54 | 14°41 | n.a. | S 20 |
| S 21 | 17 45 17 | 25°40'52 | 11♉20 | 16°20 | 10°32 | 11°25 | 14°33 | 28°31 | 18°42 | 25°17 | 20°40 | 7°36 | 6°51 | 14°48 | n.a. | S 21 |
| M22 | 17 49 14 | 26°38'06 | 25°44 | 16°R21 | 11°23 | 11°56 | 14°26 | 28°33 | 18°44 | 25°19 | 20°41 | 7°30 | 6°48 | 14°54 | n.a. | M22 |
| T 23 | 17 53 10 | 27°35'21 | 10♊34 | 16°17 | 12°15 | 12°26 | 14°19 | 28°35 | 18°46 | 25°21 | 20°42 | 7°21 | 6°44 | 15° 1 | n.a. | T 23 |
| W24 | 17 57 7 | 28°32'37 | 25°41 | 16° 9 | 13° 8 | 12°56 | 14°12 | 28°36 | 18°47 | 25°23 | 20°44 | 7°11 | 6°41 | 15° 8 | n.a. | W24 |
| T 25 | 18 1 3 | 29°29'54 | 10♋57 | 15°55 | 14° 2 | 13°26 | 14° 5 | 28°38 | 18°49 | 25°25 | 20°45 | 7° 1 | 6°38 | 15°15 | n.a. | T 25 |
| F 26 | 18 5 0 | 0♋27'12 | 26°11 | 15°37 | 14°56 | 13°56 | 13°57 | 28°40 | 18°51 | 25°27 | 20°46 | 6°50 | 6°35 | 15°21 | n.a. | F 26 |
| S 27 | 18 8 56 | 1°24'30 | 11♌10 | 15°13 | 15°50 | 14°25 | 13°50 | 28°43 | 18°52 | 25°29 | 20°47 | 6°42 | 6°32 | 15°28 | n.a. | S 27 |
| S 28 | 18 12 53 | 2°21'49 | 25°49 | 14°46 | 16°45 | 14°53 | 13°42 | 28°45 | 18°54 | 25°31 | 20°48 | 6°36 | 6°29 | 15°35 | n.a. | S 28 |
| M29 | 18 16 50 | 3°19'08 | 10♍ 2 | 14°14 | 17°41 | 15°22 | 13°35 | 28°47 | 18°55 | 25°33 | 20°49 | 6°33 | 6°25 | 15°41 | n.a. | M29 |
| T 30 | 18 20 46 | 4♋16'28 | 23♍47 | 13♋38 | 18♉37 | 15♓49 | 13♑27 | 28♍50 | 18♈57 | 25♉35 | 20♉50 | 6♈32 | 6♈22 | 15♑48 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| M 1 | 21n40 | 14n32 | 3n13 | 25n 4 | 1n22 | 7n33 | 2s53 | 14s15 | 2s55 | 23s15 | 0s34 | 3n 8 | 2n40 | 6n37 | 0s33 | 17n37 | 1s33 | 9n 4 | 9s16 | 3n40 | 3n10 | 28s13 | | | n.a. |
| T 2 | 21 49 | 8 25 | 2 11 | 24 55 | 1 14 | 7 41 | 2 57 | 14 4 | 2 57 | 23 16 | 0 35 | 3 8 | 2 40 | 6 38 | 0 33 | 17 38 | 1 33 | 9 4 | 9 16 | 3 40 | 3 9 | 28 12 | | | n.a. |
| W 3 | 21 58 | 2 5 | 1 3 | 24 44 | 1 6 | 7 49 | 3 1 | 13 53 | 2 58 | 23 16 | 0 35 | 3 8 | 2 40 | 6 39 | 0 33 | 17 39 | 1 33 | 9 4 | 9 16 | 3 40 | 3 8 | 28 11 | | | n.a. |
| T 4 | 22 7 | 4s12 | 0s 6 | 24 33 | 0 57 | 7 58 | 3 5 | 13 42 | 3 0 | 23 17 | 0 35 | 3 7 | 2 40 | 6 40 | 0 33 | 17 39 | 1 33 | 9 5 | 9 16 | 3 41 | 3 6 | 28 10 | | | n.a. |
| F 5 | 22 16 | 10 12 | 1 13 | 24 21 | 0 48 | 8 8 | 3 9 | 13 31 | 3 2 | 23 18 | 0 35 | 3 7 | 2 39 | 6 41 | 0 33 | 17 40 | 1 33 | 9 5 | 9 16 | 3 40 | 3 5 | 28 10 | | | n.a. |
| S 6 | 22 24 | 15 41 | 2 16 | 24 8 | 0 38 | 8 18 | 3 12 | 13 20 | 3 4 | 23 19 | 0 35 | 3 7 | 2 39 | 6 42 | 0 33 | 17 40 | 1 33 | 9 5 | 9 16 | 3 39 | 3 4 | 28 9 | | | n.a. |
| S 7 | 22 32 | 20 27 | 3 11 | 23 53 | 0 27 | 8 29 | 3 15 | 13 8 | 3 6 | 23 20 | 0 36 | 3 7 | 2 39 | 6 43 | 0 33 | 17 41 | 1 33 | 9 6 | 9 17 | 3 37 | 3 3 | 28 8 | | | n.a. |
| M 8 | 22 39 | 24 18 | 3 57 | 23 39 | 0 17 | 8 40 | 3 18 | 12 57 | 3 8 | 23 20 | 0 36 | 3 6 | 2 39 | 6 44 | 0 33 | 17 41 | 1 33 | 9 6 | 9 17 | 3 34 | 3 1 | 28 7 | | | n.a. |
| T 9 | 22 46 | 27 1 | 4 31 | 23 23 | 0 5 | 8 52 | 3 21 | 12 46 | 3 10 | 23 21 | 0 36 | 3 6 | 2 38 | 6 44 | 0 33 | 17 42 | 1 33 | 9 6 | 9 17 | 3 29 | 3 0 | 28 7 | | | n.a. |
| W10 | 22 52 | 28 28 | 4 53 | 23 7 | 0s 6 | 9 5 | 3 23 | 12 35 | 3 12 | 23 22 | 0 36 | 3 5 | 2 38 | 6 45 | 0 33 | 17 42 | 1 33 | 9 7 | 9 17 | 3 25 | 2 59 | 28 6 | | | n.a. |
| T 11 | 22 59 | 28 34 | 5 1 | 22 51 | 0 19 | 9 18 | 3 25 | 12 24 | 3 14 | 23 23 | 0 36 | 3 5 | 2 38 | 6 46 | 0 33 | 17 43 | 1 33 | 9 7 | 9 17 | 3 20 | 2 58 | 28 5 | | | n.a. |
| F 12 | 23 4 | 27 21 | 4 57 | 22 34 | 0 31 | 9 31 | 3 27 | 12 14 | 3 16 | 23 24 | 0 37 | 3 4 | 2 38 | 6 47 | 0 33 | 17 43 | 1 33 | 9 7 | 9 17 | 3 15 | 2 56 | 28 4 | | | n.a. |
| S 13 | 23 10 | 24 54 | 4 40 | 22 17 | 0 44 | 9 44 | 3 29 | 12 3 | 3 18 | 23 25 | 0 37 | 3 4 | 2 37 | 6 48 | 0 33 | 17 44 | 1 33 | 9 7 | 9 17 | 3 11 | 2 55 | 28 3 | | | n.a. |
| S 14 | 23 15 | 21 23 | 4 10 | 22 0 | 0 57 | 9 58 | 3 30 | 11 52 | 3 20 | 23 26 | 0 37 | 3 3 | 2 37 | 6 48 | 0 33 | 17 44 | 1 33 | 9 8 | 9 17 | 3 8 | 2 54 | 28 2 | | | n.a. |
| M15 | 23 19 | 16 58 | 3 30 | 21 43 | 1 11 | 10 13 | 3 32 | 11 41 | 3 21 | 23 27 | 0 37 | 3 3 | 2 37 | 6 49 | 0 33 | 17 45 | 1 33 | 9 8 | 9 17 | 3 6 | 2 52 | 28 2 | | | n.a. |
| T 16 | 23 23 | 11 51 | 2 39 | 21 26 | 1 25 | 10 27 | 3 33 | 11 30 | 3 23 | 23 28 | 0 38 | 3 2 | 2 37 | 6 50 | 0 33 | 17 45 | 1 33 | 9 8 | 9 17 | 3 5 | 2 51 | 28 1 | | | n.a. |
| W17 | 23 27 | 6 11 | 1 40 | 21 10 | 1 39 | 10 42 | 3 34 | 11 20 | 3 25 | 23 29 | 0 38 | 3 1 | 2 36 | 6 51 | 0 34 | 17 46 | 1 33 | 9 8 | 9 17 | 3 5 | 2 50 | 28 0 | | | n.a. |
| T 18 | 23 31 | 0 9 | 0 35 | 20 53 | 1 53 | 10 57 | 3 34 | 11 9 | 3 27 | 23 30 | 0 38 | 3 0 | 2 36 | 6 51 | 0 34 | 17 46 | 1 33 | 9 9 | 9 17 | 3 5 | 2 49 | 27 59 | | | n.a. |
| F 19 | 23 34 | 6n 5 | 0n33 | 20 37 | 2 8 | 11 13 | 3 35 | 10 59 | 3 29 | 23 31 | 0 38 | 3 0 | 2 36 | 6 52 | 0 34 | 17 47 | 1 33 | 9 9 | 9 17 | 3 5 | 2 47 | 27 58 | | | n.a. |
| S 20 | 23 36 | 12 15 | 1 42 | 20 22 | 2 22 | 11 29 | 3 35 | 10 49 | 3 31 | 23 31 | 0 38 | 2 59 | 2 36 | 6 53 | 0 34 | 17 47 | 1 33 | 9 9 | 9 17 | 3 4 | 2 46 | 27 57 | | | n.a. |
| S 21 | 23 38 | 18 3 | 2 48 | 20 7 | 2 36 | 11 44 | 3 35 | 10 38 | 3 33 | 23 32 | 0 39 | 2 58 | 2 35 | 6 53 | 0 34 | 17 47 | 1 33 | 9 9 | 9 17 | 3 3 | 2 45 | 27 56 | | | n.a. |
| M22 | 23 40 | 23 3 | 3 45 | 19 52 | 2 50 | 12 0 | 3 35 | 10 28 | 3 35 | 23 33 | 0 39 | 2 57 | 2 35 | 6 54 | 0 34 | 17 48 | 1 33 | 9 10 | 9 17 | 3 0 | 2 44 | 27 55 | | | n.a. |
| T 23 | 23 41 | 26 42 | 4 29 | 19 39 | 3 4 | 12 17 | 3 35 | 10 18 | 3 37 | 23 34 | 0 39 | 2 56 | 2 35 | 6 55 | 0 34 | 17 48 | 1 33 | 9 10 | 9 17 | 2 57 | 2 42 | 27 55 | | | n.a. |
| W24 | 23 42 | 28 32 | 4 54 | 19 27 | 3 18 | 12 33 | 3 35 | 10 8 | 3 39 | 23 35 | 0 39 | 2 55 | 2 35 | 6 55 | 0 34 | 17 49 | 1 33 | 9 10 | 9 17 | 2 53 | 2 41 | 27 54 | | | n.a. |
| T 25 | 23 42 | 28 14 | 5 0 | 19 15 | 3 31 | 12 49 | 3 34 | 9 58 | 3 41 | 23 36 | 0 39 | 2 54 | 2 34 | 6 56 | 0 34 | 17 49 | 1 33 | 9 10 | 9 18 | 2 49 | 2 40 | 27 53 | | | n.a. |
| F 26 | 23 42 | 25 47 | 4 44 | 19 5 | 3 43 | 13 6 | 3 34 | 9 49 | 3 43 | 23 37 | 0 39 | 2 53 | 2 34 | 6 57 | 0 34 | 17 50 | 1 33 | 9 11 | 9 18 | 2 45 | 2 39 | 27 52 | | | n.a. |
| S 27 | 23 42 | 21 35 | 4 8 | 18 56 | 3 55 | 13 22 | 3 33 | 9 39 | 3 45 | 23 38 | 0 40 | 2 52 | 2 34 | 6 57 | 0 34 | 17 50 | 1 33 | 9 11 | 9 18 | 2 41 | 2 37 | 27 51 | | | n.a. |
| S 28 | 23 41 | 16 8 | 3 17 | 18 48 | 4 6 | 13 39 | 3 32 | 9 29 | 3 47 | 23 39 | 0 40 | 2 51 | 2 33 | 6 58 | 0 34 | 17 51 | 1 33 | 9 11 | 9 18 | 2 39 | 2 36 | 27 50 | | | n.a. |
| M29 | 23 40 | 9 58 | 2 15 | 18 42 | 4 16 | 13 55 | 3 31 | 9 20 | 3 48 | 23 40 | 0 40 | 2 50 | 2 33 | 6 58 | 0 34 | 17 51 | 1 33 | 9 11 | 9 18 | 2 38 | 2 35 | 27 49 | | | n.a. |
| T 30 | 23n38 | 3n31 | 1n 7 | 18n37 | 4s24 | 14n12 | 3s29 | 9s11 | 3s50 | 23s41 | 0s40 | 2n48 | 2n33 | 6n59 | 0s34 | 17n51 | 1s33 | 9n11 | 9s18 | 2n37 | 2n33 | 27s48 | | | n.a. |

Julian Day Number = 1692354.5, Delta T = 03h09m49s
Ecliptic obliquity = 23°42'26, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°09'48, Lahiri = - 5°02'47 Julian Calendar 1 June 80 BCE == Greg. Calendar 30 May 080 BCE

The year -79 astronomical counting style corresponds to year 080 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 80 BCE
# geocentric

## JULY 80 BCE (-79) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 18 24 43 | 5♋13'48 | 7♎ 8 | 12°R59 | 19♉33 | 16♓17 | 13°R20 | 28♍52 | 18♈58 | 25♉36 | 20♉51 | 6°R32 | 6♈19 | 15♑55 | n.a. | W 1 |
| T 2 | 18 28 39 | 6°11'09 | 20° 5 | 12♋18 | 20°30 | 16°44 | 13♑12 | 28°55 | 18°59 | 25°38 | 20°52 | 6♈32 | 6°16 | 16° 2 | n.a. | T 2 |
| F 3 | 18 32 36 | 7° 8'31 | 2♏44 | 11°34 | 21°27 | 17°11 | 13° 4 | 28°57 | 19° 1 | 25°40 | 20°53 | 6°30 | 6°13 | 16° 8 | n.a. | F 3 |
| S 4 | 18 36 32 | 8° 5'54 | 15° 8 | 10°48 | 22°25 | 17°37 | 12°56 | 29° 0 | 19° 2 | 25°42 | 20°54 | 6°26 | 6°10 | 16°15 | n.a. | S 4 |
| S 5 | 18 40 29 | 9° 3'17 | 27°22 | 10° 2 | 23°23 | 18° 2 | 12°49 | 29° 3 | 19° 3 | 25°43 | 20°55 | 6°20 | 6° 6 | 16°22 | n.a. | S 5 |
| M 6 | 18 44 25 | 10° 0'42 | 9♐27 | 9°17 | 24°22 | 18°28 | 12°41 | 29° 6 | 19° 4 | 25°45 | 20°56 | 6°10 | 6° 3 | 16°29 | n.a. | M 6 |
| T 7 | 18 48 22 | 10°58'07 | 21°26 | 8°32 | 25°21 | 18°53 | 12°33 | 29° 9 | 19° 5 | 25°47 | 20°57 | 5°59 | 6° 0 | 16°35 | n.a. | T 7 |
| W 8 | 18 52 19 | 11°55'34 | 3♑21 | 7°49 | 26°20 | 19°17 | 12°25 | 29°12 | 19° 6 | 25°49 | 20°58 | 5°45 | 5°57 | 16°42 | n.a. | W 8 |
| T 9 | 18 56 15 | 12°53'01 | 15°15 | 7°10 | 27°20 | 19°41 | 12°17 | 29°15 | 19° 7 | 25°50 | 20°59 | 5°31 | 5°54 | 16°49 | n.a. | T 9 |
| F 10 | 19 0 12 | 13°50'30 | 27° 7 | 6°33 | 28°20 | 20° 4 | 12°10 | 29°19 | 19° 8 | 25°52 | 21° 0 | 5°18 | 5°50 | 16°55 | n.a. | F 10 |
| S 11 | 19 4 8 | 14°48'00 | 9♒ 0 | 6° 1 | 29°20 | 20°27 | 12° 2 | 29°22 | 19° 9 | 25°54 | 21° 1 | 5° 7 | 5°47 | 17° 2 | n.a. | S 11 |
| S 12 | 19 8 5 | 15°45'32 | 20°55 | 5°34 | 0♊21 | 20°50 | 11°54 | 29°25 | 19°10 | 25°55 | 21° 2 | 4°57 | 5°44 | 17° 9 | n.a. | S 12 |
| M13 | 19 12 1 | 16°43'04 | 2♓55 | 5°13 | 1°22 | 21°12 | 11°46 | 29°29 | 19°11 | 25°57 | 21° 3 | 4°51 | 5°41 | 17°16 | n.a. | M13 |
| T 14 | 19 15 58 | 17°40'39 | 15° 4 | 4°57 | 2°23 | 21°33 | 11°39 | 29°32 | 19°11 | 25°58 | 21° 4 | 4°47 | 5°38 | 17°22 | n.a. | T 14 |
| W15 | 19 19 55 | 18°38'14 | 27°23 | 4°48 | 3°25 | 21°54 | 11°31 | 29°36 | 19°12 | 26° 0 | 21° 5 | 4°46 | 5°35 | 17°29 | n.a. | W15 |
| T 16 | 19 23 51 | 19°35'52 | 9♈59 | 4°D46 | 4°27 | 22°14 | 11°23 | 29°40 | 19°13 | 26° 1 | 21° 5 | 4°D46 | 5°31 | 17°36 | n.a. | T 16 |
| F 17 | 19 27 48 | 20°33'31 | 22°55 | 4°51 | 5°30 | 22°33 | 11°16 | 29°44 | 19°13 | 26° 3 | 21° 6 | 4°R46 | 5°28 | 17°42 | n.a. | F 17 |
| S 18 | 19 31 44 | 21°31'12 | 6♉16 | 5° 4 | 6°32 | 22°52 | 11° 8 | 29°48 | 19°14 | 26° 4 | 21° 7 | 4°45 | 5°25 | 17°49 | n.a. | S 18 |
| S 19 | 19 35 41 | 22°28'54 | 20° 4 | 5°23 | 7°35 | 23°11 | 11° 0 | 29°52 | 19°14 | 26° 6 | 21° 8 | 4°43 | 5°22 | 17°56 | n.a. | S 19 |
| M20 | 19 39 37 | 23°26'39 | 4♊20 | 5°50 | 8°38 | 23°29 | 10°53 | 29°56 | 19°15 | 26° 7 | 21° 8 | 4°38 | 5°19 | 18° 3 | n.a. | M20 |
| T 21 | 19 43 34 | 24°24'25 | 19° 3 | 6°25 | 9°42 | 23°46 | 10°46 | 0♎ 0 | 19°15 | 26° 8 | 21° 9 | 4°30 | 5°16 | 18° 9 | n.a. | T 21 |
| W22 | 19 47 30 | 25°22'13 | 4♋ 7 | 7° 6 | 10°45 | 24° 2 | 10°38 | 0° 4 | 19°16 | 26°10 | 21°10 | 4°21 | 5°12 | 18°16 | n.a. | W22 |
| T 23 | 19 51 27 | 26°20'02 | 19°24 | 7°55 | 11°49 | 24°18 | 10°31 | 0° 9 | 19°16 | 26°11 | 21°11 | 4°11 | 5° 9 | 18°23 | n.a. | T 23 |
| F 24 | 19 55 24 | 27°17'53 | 4♌41 | 8°51 | 12°54 | 24°33 | 10°24 | 0°13 | 19°16 | 26°12 | 21°11 | 4° 2 | 5° 6 | 18°30 | n.a. | F 24 |
| S 25 | 19 59 20 | 28°15'46 | 19°48 | 9°53 | 13°58 | 24°47 | 10°17 | 0°17 | 19°16 | 26°14 | 21°12 | 3°54 | 5° 3 | 18°36 | n.a. | S 25 |
| S 26 | 20 3 17 | 29°13'40 | 4♍36 | 11° 2 | 15° 3 | 25° 1 | 10°10 | 0°22 | 19°16 | 26°15 | 21°13 | 3°49 | 5° 0 | 18°43 | n.a. | S 26 |
| M27 | 20 7 13 | 0♌11'35 | 18°59 | 12°17 | 16° 8 | 25°14 | 10° 3 | 0°27 | 19°17 | 26°16 | 21°13 | 3°46 | 4°56 | 18°50 | n.a. | M27 |
| T 28 | 20 11 10 | 1° 9'32 | 2♎53 | 13°38 | 17°13 | 25°26 | 9°56 | 0°31 | 19°R17 | 26°17 | 21°14 | 3°D45 | 4°53 | 18°56 | n.a. | T 28 |
| W29 | 20 15 6 | 2° 7'30 | 16°18 | 15° 4 | 18°18 | 25°38 | 9°49 | 0°36 | 19°17 | 26°18 | 21°14 | 3°45 | 4°50 | 19° 3 | n.a. | W29 |
| T 30 | 20 19 3 | 3° 5'30 | 29°19 | 16°35 | 19°24 | 25°49 | 9°43 | 0°41 | 19°17 | 26°19 | 21°15 | 3°R46 | 4°47 | 19°10 | n.a. | T 30 |
| F 31 | 20 22 59 | 4♌ 3'31 | 11♏57 | 18♋10 | 20♊30 | 25♓58 | 9♑36 | 0♎46 | 19♈16 | 26♉21 | 21♉15 | 3♈45 | 4♈44 | 19♑17 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| W 1 | 23n36 | 2s54 | 0s 3 | 18n34 | 4s32 | 14n29 | 3s28 | 9s 2 | 3s52 | 23s42 | 0s40 | 2n47 | 2n33 | 6n59 | 0s34 | 17n52 | 1s33 | 9n11 | 9s18 | 2n37 | 2n32 | 27s47 | | | n.a. |
| T 2 | 23 34 | 9 2 | 1 11 | 18 32 | 4 37 | 14 45 | 3 27 | 8 53 | 3 54 | 23 43 | 0 41 | 2 46 | 2 32 | 7 0 | 0 34 | 17 52 | 1 33 | 9 12 | 9 18 | 2 37 | 2 31 | 27 46 | | | n.a. |
| F 3 | 23 31 | 14 39 | 2 14 | 18 31 | 4 42 | 15 2 | 3 25 | 8 44 | 3 56 | 23 44 | 0 41 | 2 45 | 2 32 | 7 0 | 0 34 | 17 53 | 1 34 | 9 12 | 9 18 | 2 37 | 2 30 | 27 45 | | | n.a. |
| S 4 | 23 27 | 19 34 | 3 9 | 18 33 | 4 44 | 15 18 | 3 23 | 8 36 | 3 58 | 23 45 | 0 41 | 2 43 | 2 32 | 7 1 | 0 34 | 17 53 | 1 34 | 9 12 | 9 18 | 2 35 | 2 28 | 27 44 | | | n.a. |
| S 5 | 23 24 | 23 35 | 3 54 | 18 35 | 4 45 | 15 35 | 3 22 | 8 27 | 4 0 | 23 46 | 0 41 | 2 42 | 2 32 | 7 1 | 0 34 | 17 53 | 1 34 | 9 12 | 9 19 | 2 32 | 2 27 | 27 43 | | | n.a. |
| M 6 | 23 19 | 26 32 | 4 28 | 18 40 | 4 44 | 15 51 | 3 20 | 8 19 | 4 2 | 23 47 | 0 41 | 2 40 | 2 32 | 7 2 | 0 34 | 17 54 | 1 34 | 9 12 | 9 19 | 2 29 | 2 26 | 27 42 | | | n.a. |
| T 7 | 23 15 | 28 15 | 4 50 | 18 45 | 4 41 | 16 7 | 3 18 | 8 11 | 4 4 | 23 48 | 0 41 | 2 39 | 2 31 | 7 2 | 0 34 | 17 54 | 1 34 | 9 12 | 9 19 | 2 24 | 2 25 | 27 41 | | | n.a. |
| W 8 | 23 10 | 28 39 | 4 59 | 18 53 | 4 36 | 16 23 | 3 15 | 8 3 | 4 6 | 23 48 | 0 41 | 2 38 | 2 31 | 7 2 | 0 34 | 17 55 | 1 34 | 9 12 | 9 19 | 2 19 | 2 23 | 27 40 | | | n.a. |
| T 9 | 23 4 | 27 43 | 4 55 | 19 1 | 4 30 | 16 39 | 3 13 | 7 55 | 4 7 | 23 49 | 0 42 | 2 36 | 2 31 | 7 3 | 0 34 | 17 55 | 1 34 | 9 13 | 9 19 | 2 13 | 2 22 | 27 39 | | | n.a. |
| F 10 | 22 59 | 25 31 | 4 38 | 19 11 | 4 22 | 16 55 | 3 11 | 7 47 | 4 9 | 23 50 | 0 42 | 2 35 | 2 31 | 7 3 | 0 34 | 17 55 | 1 34 | 9 13 | 9 19 | 2 8 | 2 21 | 27 38 | | | n.a. |
| S 11 | 22 52 | 22 13 | 4 10 | 19 22 | 4 12 | 17 10 | 3 8 | 7 40 | 4 11 | 23 51 | 0 42 | 2 33 | 2 30 | 7 3 | 0 34 | 17 56 | 1 34 | 9 13 | 9 19 | 2 3 | 2 19 | 27 37 | | | n.a. |
| S 12 | 22 46 | 17 59 | 3 30 | 19 34 | 4 1 | 17 25 | 3 6 | 7 32 | 4 13 | 23 52 | 0 42 | 2 31 | 2 30 | 7 4 | 0 34 | 17 56 | 1 34 | 9 13 | 9 19 | 1 59 | 2 18 | 27 36 | | | n.a. |
| M13 | 22 39 | 13 1 | 2 40 | 19 47 | 3 49 | 17 41 | 3 3 | 7 25 | 4 15 | 23 53 | 0 42 | 2 30 | 2 30 | 7 4 | 0 34 | 17 56 | 1 34 | 9 13 | 9 19 | 1 57 | 2 17 | 27 35 | | | n.a. |
| T 14 | 22 31 | 7 31 | 1 42 | 20 1 | 3 36 | 17 55 | 3 0 | 7 19 | 4 17 | 23 54 | 0 42 | 2 28 | 2 30 | 7 4 | 0 34 | 17 57 | 1 34 | 9 13 | 9 20 | 1 55 | 2 16 | 27 33 | | | n.a. |
| W15 | 22 24 | 1 39 | 0 39 | 20 16 | 3 22 | 18 10 | 2 58 | 7 12 | 4 18 | 23 54 | 0 42 | 2 26 | 2 29 | 7 4 | 0 34 | 17 57 | 1 34 | 9 13 | 9 20 | 1 55 | 2 14 | 27 32 | | | n.a. |
| T 16 | 22 15 | 4n25 | 0n28 | 20 31 | 3 7 | 18 24 | 2 55 | 7 5 | 4 20 | 23 55 | 0 43 | 2 25 | 2 29 | 7 5 | 0 34 | 17 57 | 1 34 | 9 13 | 9 20 | 1 55 | 2 13 | 27 31 | | | n.a. |
| F 17 | 22 7 | 10 28 | 1 35 | 20 46 | 2 51 | 18 39 | 2 52 | 6 59 | 4 22 | 23 56 | 0 43 | 2 23 | 2 29 | 7 5 | 0 34 | 17 58 | 1 34 | 9 13 | 9 20 | 1 55 | 2 12 | 27 30 | | | n.a. |
| S 18 | 21 58 | 16 15 | 2 39 | 21 2 | 2 35 | 18 52 | 2 49 | 6 53 | 4 24 | 23 57 | 0 43 | 2 21 | 2 29 | 7 5 | 0 34 | 17 58 | 1 34 | 9 13 | 9 20 | 1 55 | 2 11 | 27 29 | | | n.a. |
| S 19 | 21 49 | 21 25 | 3 36 | 21 18 | 2 18 | 19 6 | 2 46 | 6 47 | 4 25 | 23 57 | 0 43 | 2 19 | 2 29 | 7 5 | 0 34 | 17 58 | 1 34 | 9 14 | 9 20 | 1 54 | 2 9 | 27 28 | | | n.a. |
| M20 | 21 39 | 25 32 | 4 21 | 21 33 | 2 2 | 19 19 | 2 42 | 6 42 | 4 27 | 23 58 | 0 43 | 2 17 | 2 28 | 7 5 | 0 34 | 17 59 | 1 34 | 9 14 | 9 20 | 1 51 | 2 8 | 27 27 | | | n.a. |
| T 21 | 21 29 | 28 5 | 4 51 | 21 48 | 1 45 | 19 32 | 2 39 | 6 37 | 4 29 | 23 59 | 0 43 | 2 16 | 2 28 | 7 5 | 0 34 | 17 59 | 1 34 | 9 14 | 9 21 | 1 49 | 2 7 | 27 26 | | | n.a. |
| W22 | 21 18 | 28 41 | 5 2 | 22 3 | 1 28 | 19 44 | 2 36 | 6 31 | 4 31 | 24 0 | 0 43 | 2 14 | 2 28 | 7 6 | 0 34 | 17 59 | 1 34 | 9 14 | 9 21 | 1 45 | 2 5 | 27 25 | | | n.a. |
| T 23 | 21 7 | 27 6 | 4 52 | 22 16 | 1 12 | 19 56 | 2 33 | 6 27 | 4 32 | 24 0 | 0 43 | 2 12 | 2 28 | 7 6 | 0 34 | 17 59 | 1 34 | 9 14 | 9 21 | 1 41 | 2 4 | 27 23 | | | n.a. |
| F 24 | 20 56 | 23 31 | 4 21 | 22 29 | 0 56 | 20 8 | 2 29 | 6 22 | 4 34 | 24 1 | 0 43 | 2 10 | 2 27 | 7 6 | 0 34 | 18 0 | 1 34 | 9 14 | 9 21 | 1 37 | 2 3 | 27 22 | | | n.a. |
| S 25 | 20 44 | 18 22 | 3 31 | 22 40 | 0 40 | 20 19 | 2 26 | 6 18 | 4 35 | 24 2 | 0 44 | 2 8 | 2 27 | 7 6 | 0 34 | 18 0 | 1 34 | 9 14 | 9 21 | 1 34 | 2 2 | 27 21 | | | n.a. |
| S 26 | 20 32 | 12 14 | 2 29 | 22 50 | 0 25 | 20 30 | 2 22 | 6 14 | 4 37 | 24 2 | 0 44 | 2 6 | 2 27 | 7 6 | 0 34 | 18 0 | 1 34 | 9 14 | 9 21 | 1 32 | 2 0 | 27 20 | | | n.a. |
| M27 | 20 20 | 5 36 | 1 18 | 22 58 | 0 10 | 20 41 | 2 19 | 6 10 | 4 39 | 24 3 | 0 44 | 2 4 | 2 27 | 7 6 | 0 34 | 18 0 | 1 34 | 9 14 | 9 21 | 1 31 | 1 59 | 27 19 | | | n.a. |
| T 28 | 20 7 | 1s 5 | 0 5 | 23 4 | 0n 4 | 20 51 | 2 15 | 6 6 | 4 40 | 24 4 | 0 44 | 2 2 | 2 27 | 7 6 | 0 34 | 18 1 | 1 34 | 9 14 | 9 22 | 1 30 | 1 58 | 27 18 | | | n.a. |
| W29 | 19 54 | 7 30 | 1s 7 | 23 7 | 0 17 | 21 0 | 2 11 | 6 3 | 4 42 | 24 4 | 0 44 | 2 0 | 2 26 | 7 6 | 0 34 | 18 1 | 1 34 | 9 14 | 9 22 | 1 30 | 1 57 | 27 16 | | | n.a. |
| T 30 | 19 41 | 13 24 | 2 12 | 23 9 | 0 29 | 21 9 | 2 8 | 6 0 | 4 43 | 24 5 | 0 44 | 1 57 | 2 26 | 7 6 | 0 34 | 18 1 | 1 34 | 9 14 | 9 22 | 1 31 | 1 55 | 27 15 | | | n.a. |
| F 31 | 19n27 | 18s35 | 3s 9 | 23n 8 | 0n41 | 21n18 | 2s 4 | 5s58 | 4s44 | 24s 5 | 0s44 | 1n55 | 2n26 | 7n 6 | 0s34 | 18n 1 | 1s35 | 9n14 | 9s22 | 1n31 | 1n54 | 27s14 | | | n.a. |

Julian Day Number = 1692384.5, Delta T = 03h09m48s
Ecliptic obliquity = 23°42'25, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°09'44, Lahiri = - 5°02'43 Julian Calendar 1 July 80 BCE == Greg. Calendar 29 June 080 BCE

The year -79 astronomical counting style corresponds to year 080 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 80 BCE
# geocentric

## AUGUST 80 BCE (-79) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 26 56 | 5♌ 1'34 | 24♏19 | 19♋50 | 21♊36 | 26♓ 8 | 9°R30 | 0♎51 | 19°R16 | 26♉22 | 21♉16 | 3°R43 | 4♈41 | 19♑23 | n.a. | S 1 |
| S 2 | 20 30 53 | 5°59'38 | 6♐28 | 21°33 | 22°42 | 26°16 | 9♑24 | 0°56 | 19♈16 | 26°23 | 21°16 | 3♈39 | 4°37 | 19°30 | n.a. | S 2 |
| M 3 | 20 34 49 | 6°57'43 | 18°28 | 23°19 | 23°48 | 26°24 | 9°17 | 1° 1 | 19°16 | 26°24 | 21°17 | 3°33 | 4°34 | 19°37 | n.a. | M 3 |
| T 4 | 20 38 46 | 7°55'51 | 0♑22 | 25° 8 | 24°55 | 26°31 | 9°11 | 1° 6 | 19°16 | 26°25 | 21°17 | 3°24 | 4°31 | 19°43 | n.a. | T 4 |
| W 5 | 20 42 42 | 8°54'00 | 12°15 | 26°58 | 26° 1 | 26°37 | 9° 6 | 1°11 | 19°15 | 26°26 | 21°18 | 3°14 | 4°28 | 19°50 | n.a. | W 5 |
| T 6 | 20 46 39 | 9°52'10 | 24° 7 | 28°51 | 27° 8 | 26°42 | 9° 0 | 1°17 | 19°15 | 26°26 | 21°18 | 3° 4 | 4°25 | 19°57 | n.a. | T 6 |
| F 7 | 20 50 35 | 10°50'23 | 6♒ 2 | 0♌44 | 28°16 | 26°46 | 8°54 | 1°22 | 19°14 | 26°27 | 21°19 | 2°54 | 4°22 | 20° 4 | n.a. | F 7 |
| S 8 | 20 54 32 | 11°48'37 | 17°59 | 2°39 | 29°23 | 26°50 | 8°49 | 1°27 | 19°14 | 26°28 | 21°19 | 2°46 | 4°18 | 20°10 | n.a. | S 8 |
| S 9 | 20 58 28 | 12°46'53 | 0♓ 2 | 4°34 | 0♋30 | 26°52 | 8°44 | 1°33 | 19°13 | 26°29 | 21°19 | 2°39 | 4°15 | 20°17 | n.a. | S 9 |
| M10 | 21 2 25 | 13°45'11 | 12°11 | 6°30 | 1°38 | 26°54 | 8°39 | 1°38 | 19°13 | 26°30 | 21°20 | 2°34 | 4°12 | 20°24 | n.a. | M10 |
| T 11 | 21 6 22 | 14°43'31 | 24°28 | 8°25 | 2°46 | 26°55 | 8°34 | 1°44 | 19°12 | 26°31 | 21°20 | 2°32 | 4° 9 | 20°30 | n.a. | T 11 |
| W12 | 21 10 18 | 15°41'54 | 6♈56 | 10°21 | 3°54 | 26°R55 | 8°29 | 1°49 | 19°11 | 26°31 | 21°20 | 2°D32 | 4° 6 | 20°37 | n.a. | W12 |
| T 13 | 21 14 15 | 16°40'18 | 19°38 | 12°16 | 5° 2 | 26°54 | 8°24 | 1°55 | 19°11 | 26°32 | 21°21 | 2°33 | 4° 2 | 20°44 | n.a. | T 13 |
| F 14 | 21 18 11 | 17°38'44 | 2♉37 | 14°10 | 6°11 | 26°52 | 8°20 | 2° 1 | 19°10 | 26°33 | 21°21 | 2°34 | 3°59 | 20°51 | n.a. | F 14 |
| S 15 | 21 22 8 | 18°37'13 | 15°56 | 16° 4 | 7°19 | 26°50 | 8°15 | 2° 7 | 19° 9 | 26°33 | 21°21 | 2°R35 | 3°56 | 20°57 | n.a. | S 15 |
| S 16 | 21 26 4 | 19°35'45 | 29°37 | 17°58 | 8°28 | 26°46 | 8°11 | 2°13 | 19° 8 | 26°34 | 21°21 | 2°35 | 3°53 | 21° 4 | n.a. | S 16 |
| M17 | 21 30 1 | 20°34'18 | 13♊42 | 19°50 | 9°37 | 26°42 | 8° 7 | 2°18 | 19° 7 | 26°34 | 21°21 | 2°33 | 3°50 | 21°11 | n.a. | M17 |
| T 18 | 21 33 57 | 21°32'54 | 28°10 | 21°42 | 10°46 | 26°37 | 8° 4 | 2°24 | 19° 6 | 26°35 | 21°22 | 2°29 | 3°47 | 21°18 | n.a. | T 18 |
| W19 | 21 37 54 | 22°31'33 | 12♋57 | 23°32 | 11°55 | 26°30 | 8° 0 | 2°30 | 19° 5 | 26°35 | 21°22 | 2°24 | 3°43 | 21°24 | n.a. | W19 |
| T 20 | 21 41 51 | 23°30'13 | 27°58 | 25°22 | 13° 4 | 26°23 | 7°57 | 2°36 | 19° 4 | 26°36 | 21°22 | 2°18 | 3°40 | 21°31 | n.a. | T 20 |
| F 21 | 21 45 47 | 24°28'56 | 13♌ 3 | 27°11 | 14°13 | 26°15 | 7°53 | 2°43 | 19° 3 | 26°36 | 21°22 | 2°12 | 3°37 | 21°38 | n.a. | F 21 |
| S 22 | 21 49 44 | 25°27'40 | 28° 2 | 28°59 | 15°23 | 26° 7 | 7°50 | 2°49 | 19° 2 | 26°37 | 21°22 | 2° 8 | 3°34 | 21°44 | n.a. | S 22 |
| S 23 | 21 53 40 | 26°26'27 | 12♍48 | 0♍46 | 16°33 | 25°57 | 7°47 | 2°55 | 19° 1 | 26°37 | 21°22 | 2° 5 | 3°31 | 21°51 | n.a. | S 23 |
| M24 | 21 57 37 | 27°25'16 | 27°12 | 2°32 | 17°43 | 25°47 | 7°45 | 3° 1 | 18°59 | 26°37 | 21°22 | 2°D 3 | 3°28 | 21°58 | n.a. | M24 |
| T 25 | 22 1 33 | 28°24'06 | 11♎11 | 4°16 | 18°53 | 25°35 | 7°42 | 3° 7 | 18°58 | 26°38 | 21°R22 | 2° 3 | 3°24 | 22° 5 | n.a. | T 25 |
| W26 | 22 5 30 | 29°22'59 | 24°43 | 6° 0 | 20° 3 | 25°23 | 7°40 | 3°14 | 18°57 | 26°38 | 21°22 | 2° 5 | 3°21 | 22°11 | n.a. | W26 |
| T 27 | 22 9 26 | 0♍21'53 | 7♏49 | 7°43 | 21°13 | 25°11 | 7°38 | 3°20 | 18°55 | 26°38 | 21°22 | 2° 6 | 3°18 | 22°18 | n.a. | T 27 |
| F 28 | 22 13 23 | 1°20'49 | 20°32 | 9°25 | 22°23 | 24°57 | 7°36 | 3°26 | 18°54 | 26°38 | 21°22 | 2° 8 | 3°15 | 22°25 | n.a. | F 28 |
| S 29 | 22 17 19 | 2°19'47 | 2♐56 | 11° 6 | 23°34 | 24°43 | 7°34 | 3°33 | 18°52 | 26°39 | 21°22 | 2°R 8 | 3°12 | 22°31 | n.a. | S 29 |
| S 30 | 22 21 16 | 3°18'47 | 15° 5 | 12°46 | 24°44 | 24°28 | 7°33 | 3°39 | 18°51 | 26°39 | 21°22 | 2° 7 | 3° 8 | 22°38 | n.a. | S 30 |
| M31 | 22 25 13 | 4♍17'49 | 27♐ 4 | 14♍25 | 25♋55 | 24♓13 | 7♑31 | 3♎46 | 18♈49 | 26♉39 | 21♉22 | 2♈ 5 | 3♈ 5 | 22♑45 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 19n13 | 22s52 | 3s56 | 23n 4 | 0n51 | 21n26 | 2s 0 | 5s55 | 4s46 | 24s 6 | 0s44 | 1n53 | 2n26 | 7n 6 | 0s34 | 18n 1 | 1s35 | 9n14 | 9s22 | 1n30 | 1n53 | 27s13 | | n.a. |
| S 2 | 18 59 | 26 5 | 4 31 | 22 58 | 1 1 | 21 34 | 1 56 | 5 53 | 4 47 | 24 6 | 0 44 | 1 51 | 2 26 | 7 6 | 0 35 | 18 2 | 1 35 | 9 14 | 9 22 | 1 28 | 1 51 | 27 11 | | n.a. |
| M 3 | 18 44 | 28 5 | 4 54 | 22 49 | 1 10 | 21 41 | 1 53 | 5 51 | 4 48 | 24 7 | 0 44 | 1 49 | 2 25 | 7 5 | 0 35 | 18 2 | 1 35 | 9 14 | 9 22 | 1 25 | 1 50 | 27 10 | | n.a. |
| T 4 | 18 29 | 28 47 | 5 4 | 22 37 | 1 18 | 21 48 | 1 49 | 5 49 | 4 50 | 24 7 | 0 44 | 1 47 | 2 25 | 7 5 | 0 35 | 18 2 | 1 35 | 9 14 | 9 23 | 1 22 | 1 49 | 27 9 | | n.a. |
| W 5 | 18 14 | 28 8 | 5 1 | 22 23 | 1 24 | 21 54 | 1 45 | 5 48 | 4 51 | 24 8 | 0 44 | 1 44 | 2 25 | 7 5 | 0 35 | 18 2 | 1 35 | 9 14 | 9 23 | 1 18 | 1 48 | 27 8 | | n.a. |
| T 6 | 17 58 | 26 12 | 4 45 | 22 6 | 1 30 | 22 0 | 1 41 | 5 47 | 4 52 | 24 8 | 0 44 | 1 42 | 2 25 | 7 5 | 0 35 | 18 2 | 1 35 | 9 14 | 9 23 | 1 14 | 1 46 | 27 6 | | n.a. |
| F 7 | 17 43 | 23 6 | 4 16 | 21 46 | 1 35 | 22 5 | 1 37 | 5 46 | 4 53 | 24 9 | 0 44 | 1 40 | 2 25 | 7 5 | 0 35 | 18 3 | 1 35 | 9 14 | 9 23 | 1 10 | 1 45 | 27 5 | | n.a. |
| S 8 | 17 26 | 19 2 | 3 36 | 21 24 | 1 40 | 22 9 | 1 33 | 5 46 | 4 54 | 24 9 | 0 45 | 1 37 | 2 25 | 7 5 | 0 35 | 18 3 | 1 35 | 9 13 | 9 23 | 1 7 | 1 44 | 27 4 | | n.a. |
| S 9 | 17 10 | 14 10 | 2 46 | 21 0 | 1 43 | 22 13 | 1 29 | 5 46 | 4 55 | 24 9 | 0 45 | 1 35 | 2 24 | 7 4 | 0 35 | 18 3 | 1 35 | 9 13 | 9 23 | 1 4 | 1 43 | 27 3 | | n.a. |
| M10 | 16 53 | 8 43 | 1 47 | 20 33 | 1 45 | 22 16 | 1 25 | 5 46 | 4 56 | 24 10 | 0 45 | 1 33 | 2 24 | 7 4 | 0 35 | 18 3 | 1 35 | 9 13 | 9 24 | 1 2 | 1 41 | 27 1 | | n.a. |
| T 11 | 16 36 | 2 53 | 0 43 | 20 5 | 1 47 | 22 19 | 1 21 | 5 46 | 4 57 | 24 10 | 0 45 | 1 30 | 2 24 | 7 4 | 0 35 | 18 3 | 1 35 | 9 13 | 9 24 | 1 1 | 1 40 | 27 0 | | n.a. |
| W12 | 16 19 | 3n 9 | 0n24 | 19 35 | 1 48 | 22 22 | 1 17 | 5 47 | 4 57 | 24 11 | 0 45 | 1 28 | 2 24 | 7 4 | 0 35 | 18 3 | 1 35 | 9 13 | 9 24 | 1 1 | 1 39 | 26 59 | | n.a. |
| T 13 | 16 1 | 9 10 | 1 31 | 19 3 | 1 48 | 22 23 | 1 13 | 5 48 | 4 58 | 24 11 | 0 45 | 1 25 | 2 24 | 7 3 | 0 35 | 18 3 | 1 35 | 9 13 | 9 24 | 1 2 | 1 37 | 26 57 | | n.a. |
| F 14 | 15 43 | 14 56 | 2 35 | 18 29 | 1 48 | 22 24 | 1 10 | 5 49 | 4 59 | 24 11 | 0 45 | 1 23 | 2 24 | 7 3 | 0 35 | 18 3 | 1 35 | 9 13 | 9 24 | 1 2 | 1 36 | 26 56 | | n.a. |
| S 15 | 15 25 | 20 11 | 3 33 | 17 54 | 1 47 | 22 25 | 1 6 | 5 50 | 4 59 | 24 12 | 0 45 | 1 20 | 2 23 | 7 3 | 0 35 | 18 4 | 1 35 | 9 13 | 9 24 | 1 2 | 1 35 | 26 55 | | n.a. |
| S 16 | 15 6 | 24 31 | 4 20 | 17 17 | 1 46 | 22 25 | 1 2 | 5 52 | 5 0 | 24 12 | 0 45 | 1 18 | 2 23 | 7 2 | 0 35 | 18 4 | 1 35 | 9 13 | 9 25 | 1 2 | 1 34 | 26 53 | | n.a. |
| M17 | 14 48 | 27 33 | 4 53 | 16 40 | 1 43 | 22 24 | 0 58 | 5 54 | 5 0 | 24 12 | 0 45 | 1 15 | 2 23 | 7 2 | 0 35 | 18 4 | 1 35 | 9 13 | 9 25 | 1 1 | 1 32 | 26 52 | | n.a. |
| T 18 | 14 29 | 28 50 | 5 9 | 16 1 | 1 41 | 22 22 | 0 54 | 5 57 | 5 0 | 24 12 | 0 45 | 1 13 | 2 23 | 7 1 | 0 35 | 18 4 | 1 35 | 9 13 | 9 25 | 1 0 | 1 31 | 26 51 | | n.a. |
| W19 | 14 10 | 28 7 | 5 4 | 15 22 | 1 38 | 22 20 | 0 50 | 5 59 | 5 0 | 24 13 | 0 45 | 1 10 | 2 23 | 7 1 | 0 35 | 18 4 | 1 35 | 9 12 | 9 25 | 0 58 | 1 30 | 26 49 | | n.a. |
| T 20 | 13 50 | 25 22 | 4 39 | 14 41 | 1 34 | 22 18 | 0 46 | 6 2 | 5 0 | 24 13 | 0 45 | 1 8 | 2 23 | 7 1 | 0 35 | 18 4 | 1 35 | 9 12 | 9 25 | 0 55 | 1 28 | 26 48 | | n.a. |
| F 21 | 13 30 | 20 50 | 3 55 | 14 0 | 1 31 | 22 15 | 0 42 | 6 5 | 5 0 | 24 13 | 0 45 | 1 5 | 2 23 | 7 0 | 0 35 | 18 4 | 1 35 | 9 12 | 9 25 | 0 53 | 1 27 | 26 47 | | n.a. |
| S 22 | 13 11 | 15 1 | 2 54 | 13 18 | 1 26 | 22 11 | 0 38 | 6 9 | 5 0 | 24 13 | 0 45 | 1 3 | 2 22 | 7 0 | 0 35 | 18 4 | 1 35 | 9 12 | 9 26 | 0 51 | 1 26 | 26 45 | | n.a. |
| S 23 | 12 51 | 8 25 | 1 43 | 12 36 | 1 22 | 22 6 | 0 34 | 6 12 | 5 0 | 24 13 | 0 45 | 1 0 | 2 22 | 6 59 | 0 35 | 18 4 | 1 36 | 9 12 | 9 26 | 0 50 | 1 25 | 26 44 | | n.a. |
| M24 | 12 30 | 1 32 | 0 26 | 11 53 | 1 17 | 22 1 | 0 30 | 6 16 | 4 59 | 24 14 | 0 45 | 0 57 | 2 22 | 6 59 | 0 35 | 18 4 | 1 36 | 9 12 | 9 26 | 0 50 | 1 23 | 26 42 | | n.a. |
| T 25 | 12 10 | 5s14 | 0s50 | 11 10 | 1 12 | 21 55 | 0 27 | 6 20 | 4 59 | 24 14 | 0 45 | 0 55 | 2 22 | 6 58 | 0 35 | 18 4 | 1 36 | 9 12 | 9 26 | 0 50 | 1 22 | 26 41 | | n.a. |
| W26 | 11 49 | 11 33 | 2 1 | 10 26 | 1 7 | 21 49 | 0 23 | 6 24 | 4 58 | 24 14 | 0 45 | 0 52 | 2 22 | 6 58 | 0 35 | 18 4 | 1 36 | 9 11 | 9 26 | 0 50 | 1 21 | 26 40 | | n.a. |
| T 27 | 11 28 | 17 9 | 3 3 | 9 43 | 1 1 | 21 42 | 0 19 | 6 29 | 4 57 | 24 14 | 0 45 | 0 50 | 2 22 | 6 57 | 0 35 | 18 4 | 1 36 | 9 11 | 9 26 | 0 51 | 1 20 | 26 38 | | n.a. |
| F 28 | 11 7 | 21 50 | 3 54 | 8 58 | 0 55 | 21 34 | 0 15 | 6 33 | 4 57 | 24 14 | 0 45 | 0 47 | 2 22 | 6 57 | 0 35 | 18 4 | 1 36 | 9 11 | 9 27 | 0 51 | 1 18 | 26 37 | | n.a. |
| S 29 | 10 46 | 25 27 | 4 33 | 8 14 | 0 49 | 21 26 | 0 12 | 6 38 | 4 56 | 24 14 | 0 45 | 0 44 | 2 22 | 6 56 | 0 35 | 18 4 | 1 36 | 9 11 | 9 27 | 0 51 | 1 17 | 26 35 | | n.a. |
| S 30 | 10 24 | 27 49 | 4 59 | 7 30 | 0 43 | 21 17 | 0 8 | 6 43 | 4 54 | 24 14 | 0 45 | 0 41 | 2 22 | 6 55 | 0 35 | 18 4 | 1 36 | 9 11 | 9 27 | 0 51 | 1 16 | 26 34 | | n.a. |
| M31 | 10n 3 | 28s52 | 5s12 | 6n46 | 0n37 | 21n 8 | 0s 4 | 6s48 | 4s53 | 24s14 | 0s45 | 0n39 | 2n21 | 6n55 | 0s35 | 18n 4 | 1s36 | 9n11 | 9s27 | 0n50 | 1n14 | 26s32 | | n.a. |

Julian Day Number = 1692415.5, Delta T = 03h09m47s
Ecliptic obliquity = 23°42'26, Nutation = - 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°09'40, Lahiri = - 5°02'39 Julian Calendar 1 Aug. 80 BCE == Greg. Calendar 30 July 080 BCE

The year -79 astronomical counting style corresponds to year 080 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 80 BCE
# geocentric

## SEPTEMBER 80 BCE (-79) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 22 29 9 | 5♍16'53 | 8♉58 | 16♍ 4 | 27♋ 6 | 23°R57 | 7°R30 | 3♎52 | 18°R48 | 26♉39 | 21°R21 | 2°R 2 | 3♈ 2 | 22♉52 | n.a. | T 1 |
| W 2 | 22 33 6 | 6°15'59 | 20°50 | 17°41 | 28°17 | 23♓40 | 7♉29 | 3°59 | 18♈46 | 26°R39 | 21♉21 | 1♈58 | 2°59 | 22°58 | n.a. | W 2 |
| T 3 | 22 37 2 | 7°15'06 | 2♒43 | 19°18 | 29°28 | 23°23 | 7°29 | 4° 6 | 18°45 | 26°39 | 21°21 | 1°54 | 2°56 | 23° 5 | n.a. | T 3 |
| F 4 | 22 40 59 | 8°14'16 | 14°41 | 20°54 | 0♌39 | 23° 6 | 7°28 | 4°12 | 18°43 | 26°39 | 21°21 | 1°50 | 2°53 | 23°12 | n.a. | F 4 |
| S 5 | 22 44 55 | 9°13'27 | 26°46 | 22°29 | 1°50 | 22°48 | 7°28 | 4°19 | 18°41 | 26°39 | 21°21 | 1°46 | 2°49 | 23°18 | n.a. | S 5 |
| S 6 | 22 48 52 | 10°12'41 | 8♓59 | 24° 3 | 3° 2 | 22°29 | 7°D28 | 4°26 | 18°39 | 26°39 | 21°20 | 1°44 | 2°46 | 23°25 | n.a. | S 6 |
| M 7 | 22 52 48 | 11°11'57 | 21°22 | 25°36 | 4°13 | 22°11 | 7°28 | 4°32 | 18°38 | 26°38 | 21°20 | 1°42 | 2°43 | 23°32 | n.a. | M 7 |
| T 8 | 22 56 45 | 12°11'14 | 3♈55 | 27° 8 | 5°25 | 21°52 | 7°28 | 4°39 | 18°36 | 26°38 | 21°20 | 1°D42 | 2°40 | 23°39 | n.a. | T 8 |
| W 9 | 23 0 42 | 13°10'35 | 16°40 | 28°40 | 6°36 | 21°32 | 7°29 | 4°46 | 18°34 | 26°38 | 21°19 | 1°42 | 2°37 | 23°45 | n.a. | W 9 |
| T 10 | 23 4 38 | 14° 9'57 | 29°38 | 0♎11 | 7°48 | 21°13 | 7°29 | 4°53 | 18°32 | 26°38 | 21°19 | 1°44 | 2°33 | 23°52 | n.a. | T 10 |
| F 11 | 23 8 35 | 15° 9'22 | 12♉50 | 1°41 | 9° 0 | 20°53 | 7°30 | 5° 0 | 18°30 | 26°37 | 21°19 | 1°45 | 2°30 | 23°59 | n.a. | F 11 |
| S 12 | 23 12 31 | 16° 8'49 | 26°17 | 3°11 | 10°12 | 20°34 | 7°31 | 5° 7 | 18°28 | 26°37 | 21°18 | 1°46 | 2°27 | 24° 5 | n.a. | S 12 |
| S 13 | 23 16 28 | 17° 8'19 | 10♊ 0 | 4°40 | 11°24 | 20°14 | 7°32 | 5°14 | 18°26 | 26°37 | 21°18 | 1°47 | 2°24 | 24°12 | n.a. | S 13 |
| M14 | 23 20 24 | 18° 7'51 | 23°58 | 6° 7 | 12°37 | 19°54 | 7°34 | 5°21 | 18°24 | 26°36 | 21°18 | 1°R47 | 2°21 | 24°19 | n.a. | M14 |
| T 15 | 23 24 21 | 19° 7'26 | 8♋12 | 7°35 | 13°49 | 19°34 | 7°35 | 5°27 | 18°22 | 26°36 | 21°17 | 1°46 | 2°18 | 24°26 | n.a. | T 15 |
| W16 | 23 28 17 | 20° 7'03 | 22°39 | 9° 1 | 15° 1 | 19°15 | 7°37 | 5°34 | 18°20 | 26°36 | 21°17 | 1°45 | 2°14 | 24°32 | n.a. | W16 |
| T 17 | 23 32 14 | 21° 6'42 | 7♌14 | 10°26 | 16°14 | 18°55 | 7°39 | 5°41 | 18°18 | 26°35 | 21°16 | 1°44 | 2°11 | 24°39 | n.a. | T 17 |
| F 18 | 23 36 11 | 22° 6'24 | 21°54 | 11°51 | 17°27 | 18°36 | 7°42 | 5°48 | 18°16 | 26°35 | 21°16 | 1°43 | 2° 8 | 24°46 | n.a. | F 18 |
| S 19 | 23 40 7 | 23° 6'08 | 6♍31 | 13°15 | 18°39 | 18°16 | 7°44 | 5°55 | 18°13 | 26°34 | 21°15 | 1°42 | 2° 5 | 24°52 | n.a. | S 19 |
| S 20 | 23 44 4 | 24° 5'54 | 20°59 | 14°38 | 19°52 | 17°58 | 7°47 | 6° 3 | 18°11 | 26°33 | 21°15 | 1°41 | 2° 2 | 24°59 | n.a. | S 20 |
| M21 | 23 48 0 | 25° 5'42 | 5♎12 | 15°59 | 21° 5 | 17°39 | 7°49 | 6°10 | 18° 9 | 26°33 | 21°14 | 1°D41 | 1°59 | 25° 6 | n.a. | M21 |
| T 22 | 23 51 57 | 26° 5'32 | 19° 5 | 17°20 | 22°18 | 17°21 | 7°53 | 6°17 | 18° 7 | 26°32 | 21°13 | 1°41 | 1°55 | 25°13 | n.a. | T 22 |
| W23 | 23 55 53 | 27° 5'24 | 2♏37 | 18°40 | 23°31 | 17° 3 | 7°56 | 6°24 | 18° 5 | 26°32 | 21°13 | 1°42 | 1°52 | 25°19 | n.a. | W23 |
| T 24 | 23 59 50 | 28° 5'18 | 15°45 | 19°59 | 24°44 | 16°46 | 7°59 | 6°31 | 18° 2 | 26°31 | 21°12 | 1°42 | 1°49 | 25°26 | n.a. | T 24 |
| F 25 | 0 3 46 | 29° 5'14 | 28°32 | 21°16 | 25°57 | 16°30 | 8° 3 | 6°38 | 18° 0 | 26°30 | 21°11 | 1°43 | 1°46 | 25°33 | n.a. | F 25 |
| S 26 | 0 7 43 | 0♎ 5'12 | 10♐59 | 22°32 | 27°10 | 16°13 | 8° 6 | 6°45 | 17°58 | 26°29 | 21°11 | 1°43 | 1°43 | 25°39 | n.a. | S 26 |
| S 27 | 0 11 39 | 1° 5'11 | 23°11 | 23°47 | 28°24 | 15°58 | 8°10 | 6°52 | 17°55 | 26°29 | 21°10 | 1°43 | 1°39 | 25°46 | n.a. | S 27 |
| M28 | 0 15 36 | 2° 5'12 | 5♑12 | 25° 0 | 29°37 | 15°43 | 8°15 | 6°59 | 17°53 | 26°28 | 21° 9 | 1°43 | 1°36 | 25°53 | n.a. | M28 |
| T 29 | 0 19 33 | 3° 5'15 | 17° 6 | 26°11 | 0♍50 | 15°29 | 8°19 | 7° 7 | 17°51 | 26°27 | 21° 9 | 1°43 | 1°33 | 26° 0 | n.a. | T 29 |
| W30 | 0 23 29 | 4♎ 5'20 | 28♑58 | 27♎21 | 2♍ 4 | 15♓15 | 8♑23 | 7♎14 | 17♈48 | 26♉26 | 21♉ 8 | 1♈43 | 1♈30 | 26♑ 6 | n.a. | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 9n41 | 28s34 | 5s11 | 6n 1 | 0n30 | 20n58 | 0s 1 | 6s53 | 4s52 | 24s14 | 0s45 | 0n36 | 2n21 | 6n54 | 0s35 | 18n 4 | 1s36 | 9n10 | 9s27 | 0n49 | 1n13 | 26s31 | | n.a. |
| W 2 | 9 19 | 26 57 | 4 56 | 5 17 | 0 23 | 20 47 | 0n 3 | 6 58 | 4 50 | 24 15 | 0 45 | 0 33 | 2 21 | 6 54 | 0 35 | 18 4 | 1 36 | 9 10 | 9 27 | 0 48 | 1 12 | 26 30 | | n.a. |
| T 3 | 8 57 | 24 8 | 4 29 | 4 32 | 0 17 | 20 36 | 0 6 | 7 3 | 4 48 | 24 15 | 0 45 | 0 31 | 2 21 | 6 53 | 0 35 | 18 4 | 1 36 | 9 10 | 9 27 | 0 46 | 1 11 | 26 28 | | n.a. |
| F 4 | 8 34 | 20 16 | 3 50 | 3 48 | 0 10 | 20 24 | 0 10 | 7 9 | 4 47 | 24 15 | 0 45 | 0 28 | 2 21 | 6 52 | 0 35 | 18 4 | 1 36 | 9 10 | 9 28 | 0 44 | 1 9 | 26 27 | | n.a. |
| S 5 | 8 12 | 15 33 | 3 0 | 3 4 | 0 3 | 20 11 | 0 13 | 7 14 | 4 45 | 24 15 | 0 45 | 0 25 | 2 21 | 6 52 | 0 35 | 18 4 | 1 36 | 9 9 | 9 28 | 0 43 | 1 8 | 26 25 | | n.a. |
| S 6 | 7 49 | 10 10 | 2 2 | 2 20 | 0s 4 | 19 58 | 0 17 | 7 20 | 4 42 | 24 15 | 0 45 | 0 22 | 2 21 | 6 51 | 0 35 | 18 4 | 1 36 | 9 9 | 9 28 | 0 42 | 1 7 | 26 24 | | n.a. |
| M 7 | 7 27 | 4 20 | 0 57 | 1 36 | 0 11 | 19 44 | 0 20 | 7 25 | 4 40 | 24 15 | 0 45 | 0 19 | 2 21 | 6 50 | 0 35 | 18 4 | 1 36 | 9 9 | 9 28 | 0 41 | 1 6 | 26 22 | | n.a. |
| T 8 | 7 4 | 1n46 | 0n12 | 0 52 | 0 18 | 19 30 | 0 23 | 7 30 | 4 38 | 24 15 | 0 45 | 0 17 | 2 21 | 6 49 | 0 35 | 18 4 | 1 36 | 9 9 | 9 28 | 0 41 | 1 4 | 26 21 | | n.a. |
| W 9 | 6 41 | 7 53 | 1 22 | 0 9 | 0 25 | 19 15 | 0 26 | 7 36 | 4 35 | 24 15 | 0 45 | 0 14 | 2 21 | 6 49 | 0 35 | 18 4 | 1 36 | 9 9 | 9 28 | 0 41 | 1 3 | 26 19 | | n.a. |
| T 10 | 6 18 | 13 46 | 2 28 | 0s34 | 0 32 | 19 0 | 0 30 | 7 41 | 4 33 | 24 14 | 0 45 | 0 11 | 2 21 | 6 48 | 0 35 | 18 3 | 1 36 | 9 8 | 9 29 | 0 42 | 1 2 | 26 18 | | n.a. |
| F 11 | 5 55 | 19 10 | 3 28 | 1 17 | 0 39 | 18 44 | 0 33 | 7 46 | 4 30 | 24 14 | 0 45 | 0 8 | 2 20 | 6 47 | 0 35 | 18 3 | 1 36 | 9 8 | 9 29 | 0 42 | 1 0 | 26 16 | | n.a. |
| S 12 | 5 31 | 23 42 | 4 18 | 1 59 | 0 46 | 18 27 | 0 36 | 7 52 | 4 27 | 24 14 | 0 45 | 0 5 | 2 20 | 6 47 | 0 35 | 18 3 | 1 36 | 9 8 | 9 29 | 0 43 | 0 59 | 26 14 | | n.a. |
| S 13 | 5 8 | 27 2 | 4 54 | 2 41 | 0 54 | 18 10 | 0 39 | 7 57 | 4 24 | 24 14 | 0 45 | 0 3 | 2 20 | 6 46 | 0 35 | 18 3 | 1 37 | 9 8 | 9 29 | 0 43 | 0 58 | 26 13 | | n.a. |
| M14 | 4 45 | 28 47 | 5 13 | 3 23 | 1 1 | 17 53 | 0 42 | 8 2 | 4 21 | 24 14 | 0 45 | 0s 0 | 2 20 | 6 45 | 0 35 | 18 3 | 1 37 | 9 7 | 9 29 | 0 43 | 0 57 | 26 11 | | n.a. |
| T 15 | 4 21 | 28 41 | 5 14 | 4 4 | 1 8 | 17 35 | 0 45 | 8 7 | 4 18 | 24 14 | 0 45 | 0 3 | 2 20 | 6 44 | 0 35 | 18 3 | 1 37 | 9 7 | 9 29 | 0 43 | 0 55 | 26 10 | | n.a. |
| W16 | 3 57 | 26 38 | 4 56 | 4 45 | 1 15 | 17 16 | 0 47 | 8 12 | 4 14 | 24 14 | 0 45 | 0 6 | 2 20 | 6 43 | 0 35 | 18 3 | 1 37 | 9 7 | 9 29 | 0 42 | 0 54 | 26 8 | | n.a. |
| T 17 | 3 34 | 22 49 | 4 18 | 5 25 | 1 21 | 16 57 | 0 50 | 8 16 | 4 11 | 24 14 | 0 45 | 0 9 | 2 20 | 6 43 | 0 35 | 18 3 | 1 37 | 9 7 | 9 30 | 0 42 | 0 53 | 26 7 | | n.a. |
| F 18 | 3 10 | 17 33 | 3 23 | 6 5 | 1 28 | 16 37 | 0 53 | 8 21 | 4 7 | 24 14 | 0 45 | 0 12 | 2 20 | 6 42 | 0 35 | 18 2 | 1 37 | 9 6 | 9 30 | 0 41 | 0 51 | 26 5 | | n.a. |
| S 19 | 2 46 | 11 18 | 2 15 | 6 44 | 1 35 | 16 17 | 0 55 | 8 25 | 4 4 | 24 13 | 0 45 | 0 14 | 2 20 | 6 41 | 0 35 | 18 2 | 1 37 | 9 6 | 9 30 | 0 41 | 0 50 | 26 3 | | n.a. |
| S 20 | 2 22 | 4 31 | 0 59 | 7 23 | 1 41 | 15 56 | 0 58 | 8 29 | 4 0 | 24 13 | 0 45 | 0 17 | 2 20 | 6 40 | 0 35 | 18 2 | 1 37 | 9 6 | 9 30 | 0 41 | 0 49 | 26 2 | | n.a. |
| M21 | 1 58 | 2s23 | 0s19 | 8 1 | 1 48 | 15 35 | 1 0 | 8 33 | 3 56 | 24 13 | 0 45 | 0 20 | 2 20 | 6 39 | 0 35 | 18 2 | 1 37 | 9 6 | 9 30 | 0 41 | 0 48 | 26 0 | | n.a. |
| T 22 | 1 34 | 9 1 | 1 35 | 8 38 | 1 54 | 15 13 | 1 3 | 8 36 | 3 52 | 24 13 | 0 45 | 0 23 | 2 20 | 6 38 | 0 35 | 18 2 | 1 37 | 9 5 | 9 30 | 0 41 | 0 46 | 25 59 | | n.a. |
| W23 | 1 10 | 15 4 | 2 43 | 9 15 | 2 0 | 14 51 | 1 5 | 8 40 | 3 48 | 24 13 | 0 45 | 0 26 | 2 20 | 6 37 | 0 35 | 18 1 | 1 37 | 9 5 | 9 30 | 0 41 | 0 45 | 25 57 | | n.a. |
| T 24 | 0 46 | 20 15 | 3 41 | 9 50 | 2 6 | 14 29 | 1 8 | 8 43 | 3 44 | 24 12 | 0 45 | 0 29 | 2 20 | 6 36 | 0 35 | 18 1 | 1 37 | 9 5 | 9 31 | 0 41 | 0 44 | 25 55 | | n.a. |
| F 25 | 0 22 | 24 22 | 4 26 | 10 25 | 2 12 | 14 6 | 1 10 | 8 46 | 3 40 | 24 12 | 0 45 | 0 32 | 2 20 | 6 36 | 0 35 | 18 1 | 1 37 | 9 4 | 9 31 | 0 41 | 0 43 | 25 54 | | n.a. |
| S 26 | 0s 2 | 27 14 | 4 57 | 10 59 | 2 17 | 13 43 | 1 12 | 8 48 | 3 36 | 24 12 | 0 45 | 0 34 | 2 20 | 6 35 | 0 35 | 18 1 | 1 37 | 9 4 | 9 31 | 0 41 | 0 41 | 25 52 | | n.a. |
| S 27 | 0 26 | 28 45 | 5 14 | 11 32 | 2 22 | 13 19 | 1 14 | 8 51 | 3 32 | 24 12 | 0 45 | 0 37 | 2 20 | 6 34 | 0 35 | 18 1 | 1 37 | 9 4 | 9 31 | 0 41 | 0 40 | 25 50 | | n.a. |
| M28 | 0 50 | 28 52 | 5 17 | 12 4 | 2 27 | 12 55 | 1 16 | 8 53 | 3 28 | 24 11 | 0 45 | 0 40 | 2 20 | 6 33 | 0 35 | 18 0 | 1 37 | 9 4 | 9 31 | 0 41 | 0 39 | 25 49 | | n.a. |
| T 29 | 1 14 | 27 39 | 5 6 | 12 35 | 2 32 | 12 30 | 1 18 | 8 55 | 3 24 | 24 11 | 0 45 | 0 43 | 2 20 | 6 32 | 0 35 | 18 0 | 1 37 | 9 3 | 9 31 | 0 41 | 0 37 | 25 47 | | n.a. |
| W30 | 1s39 | 25s11 | 4s42 | 13s 4 | 2s36 | 12n 6 | 1n20 | 8s56 | 3s19 | 24s11 | 0s44 | 0s46 | 2n20 | 6n31 | 0s35 | 18n 0 | 1s37 | 9n 3 | 9s31 | 0n41 | 0n36 | 25s45 | | n.a. |

Julian Day Number = 1692446.5, Delta T = 03h09m46s
Ecliptic obliquity = 23°42'26, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°09'35, Lahiri = - 5°02'35 Julian Calendar 1 Sept. 80 BCE == Greg. Calendar 30 Aug. 080 BCE


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# ASTRODIENST EPHEMERIS for the year 80 BCE
# geocentric

## OCTOBER 80 BCE (-79) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 27 26 | 5♎ 5'26 | 10♒52 | 28♎28 | 3♍18 | 15°R 2 | 8♑28 | 7♎21 | 17°R46 | 26°R25 | 21°R 7 | 1♈43 | 1♈27 | 26♑13 | n.a. | T 1 |
| F 2 | 0 31 22 | 6° 5'34 | 22°53 | 29°33 | 4°31 | 14♓50 | 8°33 | 7°28 | 17♈43 | 26♉24 | 21♉ 6 | 1°44 | 1°24 | 26°20 | n.a. | F 2 |
| S 3 | 0 35 19 | 7° 5'44 | 5♓ 4 | 0♏36 | 5°45 | 14°39 | 8°38 | 7°35 | 17°41 | 26°23 | 21° 6 | 1°44 | 1°20 | 26°26 | n.a. | S 3 |
| S 4 | 0 39 15 | 8° 5'55 | 17°27 | 1°35 | 6°59 | 14°28 | 8°43 | 7°42 | 17°38 | 26°22 | 21° 5 | 1°45 | 1°17 | 26°33 | n.a. | S 4 |
| M 5 | 0 43 12 | 9° 6'09 | 0♈ 5 | 2°31 | 8°13 | 14°18 | 8°49 | 7°49 | 17°36 | 26°21 | 21° 4 | 1°R45 | 1°14 | 26°40 | n.a. | M 5 |
| T 6 | 0 47 8 | 10° 6'24 | 12°58 | 3°24 | 9°26 | 14° 9 | 8°54 | 7°57 | 17°34 | 26°20 | 21° 3 | 1°45 | 1°11 | 26°46 | n.a. | T 6 |
| W 7 | 0 51 5 | 11° 6'41 | 26° 6 | 4°13 | 10°40 | 14° 1 | 9° 0 | 8° 4 | 17°31 | 26°19 | 21° 2 | 1°44 | 1° 8 | 26°53 | n.a. | W 7 |
| T 8 | 0 55 2 | 12° 6'59 | 9♉29 | 4°57 | 11°54 | 13°53 | 9° 6 | 8°11 | 17°29 | 26°18 | 21° 2 | 1°43 | 1° 5 | 27° 0 | n.a. | T 8 |
| F 9 | 0 58 58 | 13° 7'20 | 23° 5 | 5°37 | 13° 8 | 13°46 | 9°12 | 8°18 | 17°26 | 26°17 | 21° 1 | 1°42 | 1° 1 | 27° 7 | n.a. | F 9 |
| S 10 | 1 2 55 | 14° 7'43 | 6♊52 | 6°10 | 14°23 | 13°40 | 9°18 | 8°25 | 17°24 | 26°16 | 21° 0 | 1°40 | 0°58 | 27°13 | n.a. | S 10 |
| S 11 | 1 6 51 | 15° 8'08 | 20°49 | 6°38 | 15°37 | 13°35 | 9°25 | 8°32 | 17°21 | 26°15 | 20°59 | 1°39 | 0°55 | 27°20 | n.a. | S 11 |
| M12 | 1 10 48 | 16° 8'35 | 4♋52 | 6°58 | 16°51 | 13°31 | 9°31 | 8°39 | 17°19 | 26°13 | 20°58 | 1°38 | 0°52 | 27°27 | n.a. | M12 |
| T 13 | 1 14 44 | 17° 9'04 | 19° 1 | 7°11 | 18° 5 | 13°27 | 9°38 | 8°47 | 17°16 | 26°12 | 20°57 | 1°D37 | 0°49 | 27°33 | n.a. | T 13 |
| W14 | 1 18 41 | 18° 9'35 | 3♌14 | 7°R16 | 19°20 | 13°24 | 9°45 | 8°54 | 17°14 | 26°11 | 20°56 | 1°38 | 0°45 | 27°40 | n.a. | W14 |
| T 15 | 1 22 37 | 19°10'08 | 17°27 | 7°12 | 20°34 | 13°23 | 9°52 | 9° 1 | 17°11 | 26°10 | 20°55 | 1°39 | 0°42 | 27°47 | n.a. | T 15 |
| F 16 | 1 26 34 | 20°10'43 | 1♍39 | 6°58 | 21°49 | 13°21 | 9°59 | 9° 8 | 17° 9 | 26° 8 | 20°54 | 1°40 | 0°39 | 27°54 | n.a. | F 16 |
| S 17 | 1 30 31 | 21°11'20 | 15°46 | 6°35 | 23° 3 | 13°D21 | 10° 6 | 9°15 | 17° 6 | 26° 7 | 20°53 | 1°42 | 0°36 | 28° 0 | n.a. | S 17 |
| S 18 | 1 34 27 | 22°11'58 | 29°47 | 6° 0 | 24°18 | 13°22 | 10°14 | 9°22 | 17° 4 | 26° 6 | 20°52 | 1°R42 | 0°33 | 28° 7 | n.a. | S 18 |
| M19 | 1 38 24 | 23°12'38 | 13♎37 | 5°16 | 25°32 | 13°23 | 10°21 | 9°29 | 17° 1 | 26° 4 | 20°51 | 1°42 | 0°30 | 28°14 | n.a. | M19 |
| T 20 | 1 42 20 | 24°13'20 | 27°13 | 4°22 | 26°47 | 13°25 | 10°29 | 9°36 | 16°59 | 26° 3 | 20°50 | 1°40 | 0°26 | 28°20 | n.a. | T 20 |
| W21 | 1 46 17 | 25°14'04 | 10♏33 | 3°18 | 28° 1 | 13°28 | 10°37 | 9°43 | 16°56 | 26° 2 | 20°49 | 1°37 | 0°23 | 28°27 | n.a. | W21 |
| T 22 | 1 50 13 | 26°14'48 | 23°35 | 2° 7 | 29°16 | 13°31 | 10°45 | 9°50 | 16°54 | 26° 0 | 20°48 | 1°33 | 0°20 | 28°34 | n.a. | T 22 |
| F 23 | 1 54 10 | 27°15'34 | 6♐20 | 0°50 | 0♎31 | 13°36 | 10°54 | 9°57 | 16°51 | 25°59 | 20°47 | 1°29 | 0°17 | 28°41 | n.a. | F 23 |
| S 24 | 1 58 6 | 28°16'22 | 18°48 | 29♎29 | 1°46 | 13°41 | 11° 2 | 10° 4 | 16°49 | 25°57 | 20°46 | 1°25 | 0°14 | 28°47 | n.a. | S 24 |
| S 25 | 2 2 3 | 29°17'11 | 1♑ 0 | 28° 7 | 3° 0 | 13°47 | 11°11 | 10°11 | 16°47 | 25°56 | 20°45 | 1°21 | 0°11 | 28°54 | n.a. | S 25 |
| M26 | 2 6 0 | 0♏18'00 | 13° 2 | 26°47 | 4°15 | 13°53 | 11°19 | 10°18 | 16°44 | 25°54 | 20°44 | 1°18 | 0° 7 | 29° 1 | n.a. | M26 |
| T 27 | 2 9 56 | 1°18'51 | 24°55 | 25°32 | 5°30 | 14° 1 | 11°28 | 10°25 | 16°42 | 25°53 | 20°43 | 1°17 | 0° 4 | 29° 7 | n.a. | T 27 |
| W28 | 2 13 53 | 2°19'43 | 6♒47 | 24°23 | 6°45 | 14° 9 | 11°37 | 10°31 | 16°39 | 25°51 | 20°42 | 1°D17 | 0° 1 | 29°14 | n.a. | W28 |
| T 29 | 2 17 49 | 3°20'36 | 18°40 | 23°22 | 8° 0 | 14°17 | 11°46 | 10°38 | 16°37 | 25°50 | 20°41 | 1°18 | 29♓58 | 29°21 | n.a. | T 29 |
| F 30 | 2 21 46 | 4°21'30 | 0♓41 | 22°33 | 9°15 | 14°27 | 11°55 | 10°45 | 16°35 | 25°48 | 20°39 | 1°19 | 29°55 | 29°27 | n.a. | F 30 |
| S 31 | 2 25 42 | 5♏22'25 | 12♓53 | 21♎54 | 10♎30 | 14♓37 | 12♑ 5 | 10♎52 | 16♈32 | 25♉47 | 20♉38 | 1♈21 | 29♓51 | 29♑34 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 2s 3 | 21s38 | 4s 6 | 13s32 | 2s40 | 11n40 | 1n21 | 8s57 | 3s15 | 24s10 | 0s44 | 0s49 | 2n20 | 6n30 | 0s35 | 18n 0 | 1s37 | 9n 3 | 9s31 | 0n42 | 0n35 | 25s44 | | | n.a. |
| F 2 | 2 27 | 17 10 | 3 19 | 13 59 | 2 44 | 11 15 | 1 23 | 8 58 | 3 11 | 24 10 | 0 44 | 0 52 | 2 20 | 6 29 | 0 35 | 17 59 | 1 37 | 9 2 | 9 31 | 0 42 | 0 34 | 25 42 | | | n.a. |
| S 3 | 2 51 | 11 58 | 2 23 | 14 24 | 2 47 | 10 49 | 1 25 | 8 58 | 3 7 | 24 10 | 0 44 | 0 55 | 2 20 | 6 28 | 0 35 | 17 59 | 1 37 | 9 2 | 9 32 | 0 42 | 0 32 | 25 40 | | | n.a. |
| S 4 | 3 15 | 6 13 | 1 18 | 14 48 | 2 49 | 10 23 | 1 26 | 8 59 | 3 2 | 24 9 | 0 44 | 0 57 | 2 20 | 6 27 | 0 35 | 17 59 | 1 37 | 9 2 | 9 32 | 0 42 | 0 31 | 25 39 | | | n.a. |
| M 5 | 3 39 | 0 6 | 0 9 | 15 9 | 2 51 | 9 56 | 1 28 | 8 59 | 2 58 | 24 9 | 0 44 | 1 0 | 2 20 | 6 26 | 0 35 | 17 59 | 1 37 | 9 1 | 9 32 | 0 42 | 0 30 | 25 37 | | | n.a. |
| T 6 | 4 3 | 6n 7 | 1n 2 | 15 29 | 2 52 | 9 29 | 1 29 | 8 58 | 2 54 | 24 8 | 0 44 | 1 3 | 2 20 | 6 25 | 0 35 | 17 58 | 1 37 | 9 1 | 9 32 | 0 42 | 0 28 | 25 35 | | | n.a. |
| W 7 | 4 27 | 12 13 | 2 11 | 15 46 | 2 53 | 9 2 | 1 30 | 8 58 | 2 50 | 24 8 | 0 44 | 1 6 | 2 20 | 6 24 | 0 35 | 17 58 | 1 37 | 9 1 | 9 32 | 0 42 | 0 27 | 25 34 | | | n.a. |
| T 8 | 4 50 | 17 52 | 3 14 | 16 1 | 2 52 | 8 35 | 1 32 | 8 57 | 2 45 | 24 8 | 0 44 | 1 9 | 2 20 | 6 24 | 0 35 | 17 58 | 1 38 | 9 1 | 9 32 | 0 41 | 0 26 | 25 32 | | | n.a. |
| F 9 | 5 14 | 22 44 | 4 7 | 16 13 | 2 51 | 8 7 | 1 33 | 8 56 | 2 41 | 24 7 | 0 44 | 1 12 | 2 20 | 6 23 | 0 35 | 17 57 | 1 38 | 9 0 | 9 32 | 0 41 | 0 25 | 25 30 | | | n.a. |
| S 10 | 5 38 | 26 25 | 4 47 | 16 23 | 2 49 | 7 39 | 1 34 | 8 54 | 2 37 | 24 7 | 0 44 | 1 14 | 2 20 | 6 22 | 0 35 | 17 57 | 1 38 | 9 0 | 9 32 | 0 40 | 0 23 | 25 28 | | | n.a. |
| S 11 | 6 2 | 28 33 | 5 10 | 16 29 | 2 46 | 7 11 | 1 35 | 8 52 | 2 33 | 24 6 | 0 44 | 1 17 | 2 20 | 6 21 | 0 35 | 17 57 | 1 38 | 9 0 | 9 32 | 0 40 | 0 22 | 25 27 | | | n.a. |
| M12 | 6 25 | 28 52 | 5 15 | 16 32 | 2 41 | 6 43 | 1 36 | 8 50 | 2 29 | 24 6 | 0 44 | 1 20 | 2 20 | 6 20 | 0 35 | 17 57 | 1 38 | 8 59 | 9 32 | 0 39 | 0 21 | 25 25 | | | n.a. |
| T 13 | 6 49 | 27 19 | 5 2 | 16 31 | 2 36 | 6 14 | 1 36 | 8 48 | 2 25 | 24 5 | 0 44 | 1 23 | 2 20 | 6 19 | 0 35 | 17 56 | 1 38 | 8 59 | 9 32 | 0 39 | 0 20 | 25 23 | | | n.a. |
| W14 | 7 12 | 24 1 | 4 29 | 16 26 | 2 29 | 5 45 | 1 37 | 8 45 | 2 21 | 24 5 | 0 44 | 1 26 | 2 20 | 6 18 | 0 35 | 17 56 | 1 38 | 8 59 | 9 33 | 0 39 | 0 18 | 25 21 | | | n.a. |
| T 15 | 7 35 | 19 16 | 3 40 | 16 16 | 2 20 | 5 16 | 1 38 | 8 42 | 2 17 | 24 4 | 0 44 | 1 28 | 2 20 | 6 17 | 0 35 | 17 56 | 1 38 | 8 58 | 9 33 | 0 40 | 0 17 | 25 20 | | | n.a. |
| F 16 | 7 58 | 13 28 | 2 38 | 16 2 | 2 10 | 4 47 | 1 38 | 8 39 | 2 13 | 24 4 | 0 44 | 1 31 | 2 20 | 6 16 | 0 35 | 17 55 | 1 38 | 8 58 | 9 33 | 0 40 | 0 16 | 25 18 | | | n.a. |
| S 17 | 8 21 | 7 0 | 1 27 | 15 43 | 1 58 | 4 18 | 1 39 | 8 35 | 2 9 | 24 3 | 0 44 | 1 34 | 2 20 | 6 15 | 0 35 | 17 55 | 1 38 | 8 58 | 9 33 | 0 41 | 0 14 | 25 16 | | | n.a. |
| S 18 | 8 44 | 0 15 | 0 11 | 15 19 | 1 44 | 3 48 | 1 39 | 8 32 | 2 5 | 24 2 | 0 44 | 1 37 | 2 20 | 6 14 | 0 35 | 17 55 | 1 38 | 8 57 | 9 33 | 0 41 | 0 13 | 25 14 | | | n.a. |
| M19 | 9 7 | 6s26 | 1s 5 | 14 49 | 1 29 | 3 19 | 1 40 | 8 28 | 2 1 | 24 2 | 0 44 | 1 39 | 2 20 | 6 13 | 0 35 | 17 54 | 1 38 | 8 57 | 9 33 | 0 41 | 0 12 | 25 12 | | | n.a. |
| T 20 | 9 30 | 12 42 | 2 16 | 14 15 | 1 12 | 2 49 | 1 40 | 8 23 | 1 57 | 24 1 | 0 44 | 1 42 | 2 20 | 6 12 | 0 35 | 17 54 | 1 38 | 8 57 | 9 33 | 0 40 | 0 11 | 25 11 | | | n.a. |
| W21 | 9 52 | 18 16 | 3 17 | 13 36 | 0 54 | 2 19 | 1 40 | 8 19 | 1 53 | 24 0 | 0 44 | 1 45 | 2 20 | 6 11 | 0 35 | 17 54 | 1 38 | 8 57 | 9 33 | 0 39 | 0 9 | 25 9 | | | n.a. |
| T 22 | 10 15 | 22 52 | 4 7 | 12 53 | 0 35 | 1 49 | 1 40 | 8 14 | 1 50 | 24 0 | 0 44 | 1 48 | 2 20 | 6 10 | 0 35 | 17 53 | 1 38 | 8 56 | 9 33 | 0 38 | 0 8 | 25 7 | | | n.a. |
| F 23 | 10 37 | 26 16 | 4 44 | 12 7 | 0 14 | 1 19 | 1 40 | 8 9 | 1 46 | 23 59 | 0 44 | 1 50 | 2 20 | 6 9 | 0 35 | 17 53 | 1 38 | 8 56 | 9 33 | 0 36 | 0 7 | 25 5 | | | n.a. |
| S 24 | 10 59 | 28 18 | 5 6 | 11 19 | 0n 6 | 0 49 | 1 40 | 8 4 | 1 42 | 23 58 | 0 44 | 1 53 | 2 20 | 6 8 | 0 35 | 17 52 | 1 38 | 8 56 | 9 33 | 0 34 | 0 6 | 25 3 | | | n.a. |
| S 25 | 11 21 | 28 55 | 5 13 | 10 30 | 0 27 | 0 19 | 1 40 | 7 58 | 1 39 | 23 58 | 0 44 | 1 56 | 2 20 | 6 7 | 0 35 | 17 52 | 1 38 | 8 55 | 9 33 | 0 33 | 0 4 | 25 1 | | | n.a. |
| M26 | 11 42 | 28 9 | 5 7 | 9 43 | 0 47 | 0s11 | 1 40 | 7 52 | 1 35 | 23 57 | 0 44 | 1 58 | 2 20 | 6 6 | 0 35 | 17 52 | 1 38 | 8 55 | 9 33 | 0 31 | 0 3 | 25 0 | | | n.a. |
| T 27 | 12 4 | 26 5 | 4 47 | 8 57 | 1 6 | 0 41 | 1 39 | 7 46 | 1 32 | 23 56 | 0 44 | 2 1 | 2 21 | 6 6 | 0 35 | 17 51 | 1 38 | 8 55 | 9 33 | 0 31 | 0 2 | 24 58 | | | n.a. |
| W28 | 12 25 | 22 54 | 4 15 | 8 16 | 1 23 | 1 12 | 1 39 | 7 40 | 1 29 | 23 55 | 0 44 | 2 4 | 2 21 | 6 5 | 0 35 | 17 51 | 1 38 | 8 54 | 9 33 | 0 31 | 0 0 | 24 56 | | | n.a. |
| T 29 | 12 46 | 18 45 | 3 32 | 7 39 | 1 39 | 1 42 | 1 39 | 7 34 | 1 25 | 23 54 | 0 44 | 2 6 | 2 21 | 6 4 | 0 35 | 17 51 | 1 38 | 8 54 | 9 33 | 0 31 | 0s 1 | 24 54 | | | n.a. |
| F 30 | 13 7 | 13 50 | 2 40 | 7 7 | 1 53 | 2 12 | 1 38 | 7 27 | 1 22 | 23 54 | 0 44 | 2 9 | 2 21 | 6 3 | 0 35 | 17 50 | 1 38 | 8 54 | 9 33 | 0 32 | 0 2 | 24 52 | | | n.a. |
| S 31 | 13s28 | 8s19 | 1s39 | 6s42 | 2n 5 | 2s42 | 1n38 | 7s20 | 1s19 | 23s53 | 0s44 | 2s11 | 2n21 | 6n 2 | 0s35 | 17n50 | 1s38 | 8n53 | 9s33 | 0n33 | 0s 3 | 24s50 | | | n.a. |

Julian Day Number = 1692476.5, Delta T = 03h09m45s
Ecliptic obliquity = 23°42'26, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°09'31, Lahiri = - 5°02'31 Julian Calendar 1 Oct. 80 BCE == Greg. Calendar 29 Sept. 080 BCE

The year -79 astronomical counting style corresponds to year 080 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 80 BCE
# geocentric

## NOVEMBER 80 BCE (-79) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 29 39 | 6♏23'20 | 25♓22 | 21°R26 | 11♎45 | 14♓47 | 12♑14 | 10♎58 | 16°R30 | 25°R45 | 20°R37 | 1°R22 | 29♓48 | 29♑41 | n.a. | S 1 |
| M 2 | 2 33 35 | 7°24'17 | 8♈10 | 21♎11 | 13° 0 | 14°59 | 12°24 | 11° 5 | 16♈28 | 25♉43 | 20♉36 | 1♈22 | 29°45 | 29°48 | n.a. | M 2 |
| T 3 | 2 37 32 | 8°25'15 | 21°19 | 21°D 6 | 14°15 | 15°11 | 12°34 | 11°12 | 16°25 | 25°42 | 20°35 | 1°21 | 29°42 | 29°54 | n.a. | T 3 |
| W 4 | 2 41 29 | 9°26'13 | 4♉49 | 21°12 | 15°30 | 15°23 | 12°43 | 11°18 | 16°23 | 25°40 | 20°34 | 1°17 | 29°39 | 0♒ 1 | n.a. | W 4 |
| T 5 | 2 45 25 | 10°27'13 | 18°39 | 21°28 | 16°45 | 15°37 | 12°53 | 11°25 | 16°21 | 25°39 | 20°33 | 1°12 | 29°36 | 0° 8 | n.a. | T 5 |
| F 6 | 2 49 22 | 11°28'14 | 2♊44 | 21°53 | 18° 0 | 15°50 | 13° 3 | 11°32 | 16°19 | 25°37 | 20°31 | 1° 5 | 29°32 | 0°14 | n.a. | F 6 |
| S 7 | 2 53 18 | 12°29'16 | 17° 1 | 22°26 | 19°15 | 16° 5 | 13°14 | 11°38 | 16°17 | 25°35 | 20°30 | 0°58 | 29°29 | 0°21 | n.a. | S 7 |
| S 8 | 2 57 15 | 13°30'19 | 1♋23 | 23° 6 | 20°30 | 16°19 | 13°24 | 11°44 | 16°14 | 25°34 | 20°29 | 0°52 | 29°26 | 0°28 | n.a. | S 8 |
| M 9 | 3 1 11 | 14°31'24 | 15°45 | 23°52 | 21°45 | 16°35 | 13°34 | 11°51 | 16°12 | 25°32 | 20°28 | 0°47 | 29°23 | 0°34 | n.a. | M 9 |
| T 10 | 3 5 8 | 15°32'29 | 0♌ 3 | 24°44 | 23° 1 | 16°51 | 13°45 | 11°57 | 16°10 | 25°30 | 20°27 | 0°44 | 29°20 | 0°41 | n.a. | T 10 |
| W11 | 3 9 4 | 16°33'36 | 14°15 | 25°41 | 24°16 | 17° 7 | 13°56 | 12° 4 | 16° 8 | 25°29 | 20°26 | 0°D43 | 29°16 | 0°48 | n.a. | W11 |
| T 12 | 3 13 1 | 17°34'43 | 28°17 | 26°43 | 25°31 | 17°24 | 14° 6 | 12°10 | 16° 6 | 25°27 | 20°25 | 0°43 | 29°13 | 0°55 | n.a. | T 12 |
| F 13 | 3 16 58 | 18°35'52 | 12♍10 | 27°48 | 26°46 | 17°42 | 14°17 | 12°16 | 16° 4 | 25°25 | 20°23 | 0°44 | 29°10 | 1° 1 | n.a. | F 13 |
| S 14 | 3 20 54 | 19°37'02 | 25°52 | 28°57 | 28° 1 | 18° 0 | 14°28 | 12°22 | 16° 2 | 25°24 | 20°22 | 0°R45 | 29° 7 | 1° 8 | n.a. | S 14 |
| S 15 | 3 24 51 | 20°38'12 | 9♎26 | 0♏ 8 | 29°17 | 18°18 | 14°39 | 12°29 | 16° 0 | 25°22 | 20°21 | 0°45 | 29° 4 | 1°15 | n.a. | S 15 |
| M16 | 3 28 47 | 21°39'24 | 22°48 | 1°22 | 0♏32 | 18°37 | 14°50 | 12°35 | 15°58 | 25°20 | 20°20 | 0°43 | 29° 1 | 1°21 | n.a. | M16 |
| T 17 | 3 32 44 | 22°40'36 | 6♏ 1 | 2°38 | 1°47 | 18°56 | 15° 2 | 12°41 | 15°56 | 25°18 | 20°19 | 0°38 | 28°57 | 1°28 | n.a. | T 17 |
| W18 | 3 36 40 | 23°41'49 | 19° 1 | 3°56 | 3° 3 | 19°16 | 15°13 | 12°47 | 15°55 | 25°17 | 20°17 | 0°30 | 28°54 | 1°35 | n.a. | W18 |
| T 19 | 3 40 37 | 24°43'02 | 1♐49 | 5°16 | 4°18 | 19°36 | 15°25 | 12°53 | 15°53 | 25°15 | 20°16 | 0°21 | 28°51 | 1°42 | n.a. | T 19 |
| F 20 | 3 44 33 | 25°44'17 | 14°24 | 6°37 | 5°33 | 19°57 | 15°36 | 12°59 | 15°51 | 25°13 | 20°15 | 0°10 | 28°48 | 1°48 | n.a. | F 20 |
| S 21 | 3 48 30 | 26°45'31 | 26°46 | 7°59 | 6°48 | 20°18 | 15°48 | 13° 4 | 15°49 | 25°12 | 20°14 | 29♓59 | 28°45 | 1°55 | n.a. | S 21 |
| S 22 | 3 52 27 | 27°46'46 | 8♑55 | 9°23 | 8° 4 | 20°40 | 16° 0 | 13°10 | 15°48 | 25°10 | 20°13 | 29°48 | 28°42 | 2° 2 | n.a. | S 22 |
| M23 | 3 56 23 | 28°48'01 | 20°55 | 10°47 | 9°19 | 21° 1 | 16°11 | 13°16 | 15°46 | 25° 8 | 20°12 | 29°40 | 28°38 | 2° 8 | n.a. | M23 |
| T 24 | 4 0 20 | 29°49'16 | 2♒47 | 12°13 | 10°34 | 21°24 | 16°23 | 13°22 | 15°44 | 25° 6 | 20°11 | 29°33 | 28°35 | 2°15 | n.a. | T 24 |
| W25 | 4 4 16 | 0♐50'31 | 14°37 | 13°39 | 11°50 | 21°46 | 16°35 | 13°27 | 15°43 | 25° 5 | 20° 9 | 29°29 | 28°32 | 2°22 | n.a. | W25 |
| T 26 | 4 8 13 | 1°51'46 | 26°28 | 15° 6 | 13° 5 | 22° 9 | 16°48 | 13°33 | 15°41 | 25° 3 | 20° 8 | 29°28 | 28°29 | 2°28 | n.a. | T 26 |
| F 27 | 4 12 9 | 2°53'01 | 8♓25 | 16°33 | 14°20 | 22°33 | 17° 0 | 13°38 | 15°40 | 25° 1 | 20° 7 | 29°D28 | 28°26 | 2°35 | n.a. | F 27 |
| S 28 | 4 16 6 | 3°54'15 | 20°35 | 18° 1 | 15°36 | 22°56 | 17°12 | 13°44 | 15°38 | 25° 0 | 20° 6 | 29°28 | 28°22 | 2°42 | n.a. | S 28 |
| S 29 | 4 20 3 | 4°55'30 | 3♈ 2 | 19°30 | 16°51 | 23°20 | 17°24 | 13°49 | 15°37 | 24°58 | 20° 5 | 29°R29 | 28°19 | 2°49 | n.a. | S 29 |
| M30 | 4 23 59 | 5♐56'45 | 15♈52 | 20♏59 | 18♏ 6 | 23♓45 | 17♑37 | 13♎54 | 15♈36 | 24♉56 | 20♉ 4 | 29♓27 | 28♓16 | 2♒55 | n.a. | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 13 s48 | 2 s22 | 0 s33 | 6 s22 | 2n15 | 3 s13 | 1n37 | 7 s13 | 1 s16 | 23 s52 | 0 s44 | 2 s14 | 2n21 | 6n 1 | 0 s35 | 17n49 | 1 s38 | 8n53 | 9 s33 | 0n33 | 0 s 5 | 24 s48 | | n.a. |
| M 2 | 14 8 | 3n50 | 0n37 | 6 9 | 2 22 | 3 43 | 1 36 | 7 6 | 1 13 | 23 51 | 0 44 | 2 16 | 2 21 | 6 0 | 0 35 | 17 49 | 1 38 | 8 53 | 9 33 | 0 33 | 0 6 | 24 46 | | n.a. |
| T 3 | 14 28 | 10 3 | 1 46 | 6 2 | 2 28 | 4 13 | 1 35 | 6 58 | 1 10 | 23 50 | 0 44 | 2 19 | 2 21 | 5 59 | 0 35 | 17 49 | 1 38 | 8 53 | 9 33 | 0 32 | 0 7 | 24 44 | | n.a. |
| W 4 | 14 48 | 15 58 | 2 52 | 6 1 | 2 32 | 4 43 | 1 35 | 6 51 | 1 7 | 23 49 | 0 44 | 2 22 | 2 21 | 5 59 | 0 35 | 17 48 | 1 38 | 8 52 | 9 33 | 0 31 | 0 9 | 24 43 | | n.a. |
| T 5 | 15 7 | 21 13 | 3 48 | 6 4 | 2 35 | 5 13 | 1 34 | 6 43 | 1 4 | 23 48 | 0 44 | 2 24 | 2 21 | 5 58 | 0 35 | 17 48 | 1 38 | 8 52 | 9 33 | 0 29 | 0 10 | 24 41 | | n.a. |
| F 6 | 15 26 | 25 23 | 4 32 | 6 12 | 2 36 | 5 43 | 1 33 | 6 35 | 1 1 | 23 47 | 0 44 | 2 26 | 2 21 | 5 57 | 0 35 | 17 47 | 1 38 | 8 52 | 9 33 | 0 26 | 0 11 | 24 39 | | n.a. |
| S 7 | 15 45 | 28 2 | 5 0 | 6 25 | 2 36 | 6 12 | 1 32 | 6 26 | 0 58 | 23 46 | 0 44 | 2 29 | 2 22 | 5 56 | 0 35 | 17 47 | 1 38 | 8 51 | 9 33 | 0 23 | 0 12 | 24 37 | | n.a. |
| S 8 | 16 4 | 28 51 | 5 9 | 6 41 | 2 35 | 6 42 | 1 30 | 6 18 | 0 55 | 23 45 | 0 44 | 2 31 | 2 22 | 5 55 | 0 35 | 17 47 | 1 38 | 8 51 | 9 33 | 0 21 | 0 14 | 24 35 | | n.a. |
| M 9 | 16 22 | 27 42 | 4 58 | 7 0 | 2 32 | 7 12 | 1 29 | 6 9 | 0 52 | 23 44 | 0 44 | 2 34 | 2 22 | 5 54 | 0 35 | 17 46 | 1 38 | 8 51 | 9 33 | 0 19 | 0 15 | 24 33 | | n.a. |
| T 10 | 16 41 | 24 45 | 4 29 | 7 23 | 2 29 | 7 41 | 1 28 | 6 1 | 0 50 | 23 43 | 0 44 | 2 36 | 2 22 | 5 54 | 0 35 | 17 46 | 1 38 | 8 51 | 9 33 | 0 18 | 0 16 | 24 31 | | n.a. |
| W11 | 16 58 | 20 19 | 3 44 | 7 47 | 2 25 | 8 10 | 1 27 | 5 52 | 0 47 | 23 42 | 0 44 | 2 39 | 2 22 | 5 53 | 0 35 | 17 45 | 1 38 | 8 50 | 9 33 | 0 17 | 0 17 | 24 29 | | n.a. |
| T 12 | 17 16 | 14 48 | 2 46 | 8 14 | 2 21 | 8 39 | 1 25 | 5 43 | 0 45 | 23 40 | 0 44 | 2 41 | 2 22 | 5 52 | 0 35 | 17 45 | 1 38 | 8 50 | 9 33 | 0 17 | 0 19 | 24 27 | | n.a. |
| F 13 | 17 33 | 8 35 | 1 39 | 8 42 | 2 16 | 9 8 | 1 24 | 5 34 | 0 42 | 23 39 | 0 44 | 2 43 | 2 22 | 5 51 | 0 35 | 17 45 | 1 38 | 8 50 | 9 33 | 0 18 | 0 20 | 24 25 | | n.a. |
| S 14 | 17 50 | 2 4 | 0 26 | 9 12 | 2 10 | 9 36 | 1 22 | 5 24 | 0 40 | 23 38 | 0 44 | 2 46 | 2 22 | 5 51 | 0 35 | 17 44 | 1 38 | 8 50 | 9 33 | 0 18 | 0 21 | 24 23 | | n.a. |
| S 15 | 18 7 | 4 s29 | 0 s47 | 9 42 | 2 4 | 10 5 | 1 21 | 5 15 | 0 37 | 23 37 | 0 44 | 2 48 | 2 23 | 5 50 | 0 35 | 17 44 | 1 38 | 8 49 | 9 33 | 0 18 | 0 23 | 24 21 | | n.a. |
| M16 | 18 23 | 10 45 | 1 56 | 10 14 | 1 58 | 10 33 | 1 19 | 5 5 | 0 35 | 23 36 | 0 44 | 2 50 | 2 23 | 5 49 | 0 35 | 17 43 | 1 38 | 8 49 | 9 33 | 0 17 | 0 24 | 24 19 | | n.a. |
| T 17 | 18 39 | 16 28 | 2 58 | 10 47 | 1 52 | 11 1 | 1 18 | 4 55 | 0 32 | 23 34 | 0 44 | 2 52 | 2 23 | 5 48 | 0 35 | 17 43 | 1 38 | 8 49 | 9 33 | 0 15 | 0 25 | 24 17 | | n.a. |
| W18 | 18 54 | 21 20 | 3 49 | 11 20 | 1 45 | 11 28 | 1 16 | 4 45 | 0 30 | 23 33 | 0 44 | 2 55 | 2 23 | 5 48 | 0 35 | 17 43 | 1 38 | 8 49 | 9 33 | 0 12 | 0 26 | 24 15 | | n.a. |
| T 19 | 19 10 | 25 8 | 4 28 | 11 53 | 1 38 | 11 56 | 1 14 | 4 35 | 0 28 | 23 32 | 0 44 | 2 57 | 2 23 | 5 47 | 0 35 | 17 42 | 1 38 | 8 48 | 9 33 | 0 8 | 0 28 | 24 13 | | n.a. |
| F 20 | 19 24 | 27 38 | 4 53 | 12 27 | 1 31 | 12 23 | 1 12 | 4 25 | 0 26 | 23 30 | 0 44 | 2 59 | 2 23 | 5 46 | 0 35 | 17 42 | 1 38 | 8 48 | 9 33 | 0 4 | 0 29 | 24 11 | | n.a. |
| S 21 | 19 39 | 28 44 | 5 4 | 13 1 | 1 24 | 12 50 | 1 11 | 4 15 | 0 24 | 23 29 | 0 44 | 3 1 | 2 23 | 5 46 | 0 35 | 17 41 | 1 38 | 8 48 | 9 33 | 0 s 0 | 0 30 | 24 9 | | n.a. |
| S 22 | 19 53 | 28 24 | 5 0 | 13 34 | 1 16 | 13 16 | 1 9 | 4 4 | 0 21 | 23 28 | 0 44 | 3 3 | 2 24 | 5 45 | 0 35 | 17 41 | 1 38 | 8 48 | 9 33 | 0 5 | 0 32 | 24 7 | | n.a. |
| M23 | 20 7 | 26 44 | 4 44 | 14 8 | 1 9 | 13 42 | 1 7 | 3 54 | 0 19 | 23 26 | 0 44 | 3 5 | 2 24 | 5 45 | 0 35 | 17 41 | 1 38 | 8 47 | 9 33 | 0 8 | 0 33 | 24 5 | | n.a. |
| T 24 | 20 20 | 23 53 | 4 15 | 14 42 | 1 2 | 14 8 | 1 5 | 3 43 | 0 17 | 23 25 | 0 44 | 3 7 | 2 24 | 5 44 | 0 35 | 17 40 | 1 38 | 8 47 | 9 33 | 0 11 | 0 34 | 24 3 | | n.a. |
| W25 | 20 33 | 20 4 | 3 36 | 15 15 | 0 54 | 14 33 | 1 3 | 3 32 | 0 15 | 23 23 | 0 44 | 3 10 | 2 24 | 5 43 | 0 34 | 17 40 | 1 38 | 8 47 | 9 32 | 0 12 | 0 35 | 24 1 | | n.a. |
| T 26 | 20 46 | 15 26 | 2 47 | 15 48 | 0 47 | 14 59 | 1 1 | 3 21 | 0 13 | 23 22 | 0 44 | 3 12 | 2 24 | 5 43 | 0 34 | 17 39 | 1 38 | 8 47 | 9 32 | 0 13 | 0 37 | 23 59 | | n.a. |
| F 27 | 20 58 | 10 12 | 1 50 | 16 21 | 0 39 | 15 23 | 0 59 | 3 10 | 0 11 | 23 20 | 0 44 | 3 14 | 2 24 | 5 42 | 0 34 | 17 39 | 1 38 | 8 46 | 9 32 | 0 13 | 0 38 | 23 57 | | n.a. |
| S 28 | 21 10 | 4 30 | 0 47 | 16 53 | 0 32 | 15 47 | 0 57 | 2 59 | 0 10 | 23 18 | 0 44 | 3 15 | 2 25 | 5 42 | 0 34 | 17 39 | 1 38 | 8 46 | 9 32 | 0 13 | 0 39 | 23 55 | | n.a. |
| S 29 | 21 21 | 1n31 | 0n19 | 17 24 | 0 25 | 16 11 | 0 54 | 2 47 | 0 8 | 23 17 | 0 44 | 3 17 | 2 25 | 5 41 | 0 34 | 17 38 | 1 38 | 8 46 | 9 32 | 0 13 | 0 40 | 23 53 | | n.a. |
| M30 | 21 s32 | 7n38 | 1n26 | 17 s56 | 0n17 | 16 s35 | 0n52 | 2 s36 | 0 s 6 | 23 s15 | 0 s44 | 3 s19 | 2n25 | 5n41 | 0 s34 | 17n38 | 1 s38 | 8n46 | 9 s32 | 0 s13 | 0 s42 | 23 s51 | | n.a. |

Julian Day Number = 1692507.5, Delta T = 03h09m44s
Ecliptic obliquity = 23°42'26, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°09'27, Lahiri = - 5°02'26 Julian Calendar 1 Nov. 80 BCE == Greg. Calendar 30 Oct. 080 BCE

The year -79 astronomical counting style corresponds to year 080 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 80 BCE
# geocentric

## DECEMBER 80 BCE (-79) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 4 27 56 | 6♐57'59 | 29♈ 7 | 22♏28 | 19♏22 | 24♓ 9 | 17♑49 | 14♎ 0 | 15°R34 | 24°R55 | 20°R 3 | 29°R24 | 28♓13 | 3♒ 2 | n.a. | T 1 |
| W 2 | 4 31 52 | 7°59'13 | 12♉49 | 23°58 | 20°37 | 24°34 | 18° 2 | 14° 5 | 15♈33 | 24♉53 | 20♉ 1 | 29♓17 | 28°10 | 3° 9 | n.a. | W 2 |
| T 3 | 4 35 49 | 9° 0'27 | 26°57 | 25°28 | 21°52 | 25° 0 | 18°15 | 14°10 | 15°32 | 24°51 | 20° 0 | 29° 9 | 28° 7 | 3°15 | n.a. | T 3 |
| F 4 | 4 39 45 | 10° 1'41 | 11♊26 | 26°59 | 23° 8 | 25°25 | 18°27 | 14°15 | 15°31 | 24°50 | 19°59 | 28°58 | 28° 3 | 3°22 | n.a. | F 4 |
| S 5 | 4 43 42 | 11° 2'56 | 26°11 | 28°30 | 24°23 | 25°51 | 18°40 | 14°20 | 15°30 | 24°48 | 19°58 | 28°46 | 28° 0 | 3°29 | n.a. | S 5 |
| S 6 | 4 47 38 | 12° 4'10 | 11♋ 2 | 0♐ 2 | 25°38 | 26°17 | 18°53 | 14°25 | 15°29 | 24°47 | 19°57 | 28°36 | 27°57 | 3°35 | n.a. | S 6 |
| M 7 | 4 51 35 | 13° 5'24 | 25°51 | 1°34 | 26°54 | 26°44 | 19° 6 | 14°29 | 15°28 | 24°45 | 19°56 | 28°26 | 27°54 | 3°42 | n.a. | M 7 |
| T 8 | 4 55 32 | 14° 6'37 | 10♌31 | 3° 6 | 28° 9 | 27°10 | 19°19 | 14°34 | 15°27 | 24°43 | 19°55 | 28°20 | 27°51 | 3°49 | n.a. | T 8 |
| W 9 | 4 59 28 | 15° 7'51 | 24°55 | 4°39 | 29°25 | 27°37 | 19°32 | 14°39 | 15°26 | 24°42 | 19°54 | 28°16 | 27°48 | 3°56 | n.a. | W 9 |
| T 10 | 5 3 25 | 16° 9'05 | 9♍ 2 | 6°12 | 0♐40 | 28° 4 | 19°45 | 14°44 | 15°25 | 24°40 | 19°53 | 28°15 | 27°44 | 4° 2 | n.a. | T 10 |
| F 11 | 5 7 21 | 17°10'19 | 22°50 | 7°45 | 1°55 | 28°32 | 19°58 | 14°48 | 15°24 | 24°39 | 19°52 | 28°15 | 27°41 | 4° 9 | n.a. | F 11 |
| S 12 | 5 11 18 | 18°11'32 | 6♎21 | 9°19 | 3°11 | 28°59 | 20°11 | 14°52 | 15°23 | 24°37 | 19°51 | 28°15 | 27°38 | 4°16 | n.a. | S 12 |
| S 13 | 5 15 14 | 19°12'46 | 19°37 | 10°54 | 4°26 | 29°27 | 20°25 | 14°57 | 15°22 | 24°36 | 19°50 | 28°13 | 27°35 | 4°22 | n.a. | S 13 |
| M14 | 5 19 11 | 20°13'59 | 2♏39 | 12°28 | 5°41 | 29°55 | 20°38 | 15° 1 | 15°22 | 24°34 | 19°49 | 28° 9 | 27°32 | 4°29 | n.a. | M14 |
| T 15 | 5 23 8 | 21°15'13 | 15°30 | 14° 4 | 6°57 | 0♈24 | 20°51 | 15° 5 | 15°21 | 24°33 | 19°48 | 28° 2 | 27°28 | 4°36 | n.a. | T 15 |
| W16 | 5 27 4 | 22°16'25 | 28°10 | 15°39 | 8°12 | 0°52 | 21° 5 | 15° 9 | 15°20 | 24°31 | 19°47 | 27°52 | 27°25 | 4°42 | n.a. | W16 |
| T 17 | 5 31 1 | 23°17'38 | 10♐40 | 17°16 | 9°27 | 1°21 | 21°18 | 15°13 | 15°20 | 24°30 | 19°46 | 27°39 | 27°22 | 4°49 | n.a. | T 17 |
| F 18 | 5 34 57 | 24°18'50 | 23° 0 | 18°52 | 10°43 | 1°50 | 21°32 | 15°17 | 15°19 | 24°28 | 19°45 | 27°25 | 27°19 | 4°56 | n.a. | F 18 |
| S 19 | 5 38 54 | 25°20'01 | 5♑12 | 20°30 | 11°58 | 2°19 | 21°46 | 15°21 | 15°19 | 24°27 | 19°44 | 27°10 | 27°16 | 5° 2 | n.a. | S 19 |
| S 20 | 5 42 50 | 26°21'11 | 17°14 | 22° 7 | 13°13 | 2°48 | 21°59 | 15°25 | 15°19 | 24°25 | 19°43 | 26°56 | 27°13 | 5° 9 | n.a. | S 20 |
| M21 | 5 46 47 | 27°22'21 | 29°10 | 23°46 | 14°28 | 3°18 | 22°13 | 15°29 | 15°18 | 24°24 | 19°42 | 26°43 | 27° 9 | 5°16 | n.a. | M21 |
| T 22 | 5 50 43 | 28°23'29 | 11♒ 0 | 25°25 | 15°44 | 3°48 | 22°27 | 15°32 | 15°18 | 24°23 | 19°41 | 26°33 | 27° 6 | 5°23 | n.a. | T 22 |
| W23 | 5 54 40 | 29°24'37 | 22°48 | 27° 4 | 16°59 | 4°18 | 22°41 | 15°36 | 15°18 | 24°21 | 19°41 | 26°27 | 27° 3 | 5°29 | n.a. | W23 |
| T 24 | 5 58 37 | 0♑25'44 | 4♓37 | 28°44 | 18°14 | 4°48 | 22°54 | 15°39 | 15°18 | 24°20 | 19°40 | 26°23 | 27° 0 | 5°36 | n.a. | T 24 |
| F 25 | 6 2 33 | 1°26'49 | 16°32 | 0♑25 | 19°30 | 5°18 | 23° 8 | 15°43 | 15°18 | 24°19 | 19°39 | 26°22 | 26°57 | 5°43 | n.a. | F 25 |
| S 26 | 6 6 30 | 2°27'53 | 28°38 | 2° 6 | 20°45 | 5°49 | 23°22 | 15°46 | 15°17 | 24°17 | 19°38 | 26°21 | 26°54 | 5°49 | n.a. | S 26 |
| S 27 | 6 10 26 | 3°28'56 | 11♈ 1 | 3°48 | 22° 0 | 6°19 | 23°36 | 15°49 | 15°D17 | 24°16 | 19°37 | 26°21 | 26°50 | 5°56 | n.a. | S 27 |
| M28 | 6 14 23 | 4°29'58 | 23°45 | 5°30 | 23°15 | 6°50 | 23°50 | 15°52 | 15°18 | 24°15 | 19°36 | 26°20 | 26°47 | 6° 3 | n.a. | M28 |
| T 29 | 6 18 19 | 5°30'58 | 6♉56 | 7°13 | 24°31 | 7°21 | 24° 4 | 15°55 | 15°18 | 24°14 | 19°36 | 26°17 | 26°44 | 6° 9 | n.a. | T 29 |
| W30 | 6 22 16 | 6°31'58 | 20°37 | 8°57 | 25°46 | 7°52 | 24°18 | 15°58 | 15°18 | 24°12 | 19°35 | 26°11 | 26°41 | 6°16 | n.a. | W30 |
| T 31 | 6 26 12 | 7♑32'56 | 4♊47 | 10♑41 | 27♐ 1 | 8♈23 | 24♑32 | 16♎ 1 | 15♈18 | 24♉11 | 19♉34 | 26♓ 2 | 26♓38 | 6♒23 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21s43 | 13n37 | 2n31 | 18s26 | 0n10 | 16s58 | 0n50 | 2s25 | 0s 4 | 23s14 | 0s44 | 3s21 | 2n25 | 5n40 | 0s34 | 17n37 | 1s38 | 8n46 | 9s32 | 0s15 | 0s43 | 23s48 | | n.a. |
| W 2 | 21 53 | 19 10 | 3 29 | 18 56 | 0 3 | 17 20 | 0 48 | 2 13 | 0 2 | 23 12 | 0 44 | 3 23 | 2 25 | 5 40 | 0 34 | 17 37 | 1 38 | 8 46 | 9 32 | 0 17 | 0 44 | 23 46 | | n.a. |
| T 3 | 22 3 | 23 50 | 4 16 | 19 25 | 0s 4 | 17 42 | 0 46 | 2 1 | 0 1 | 23 10 | 0 44 | 3 25 | 2 25 | 5 39 | 0 34 | 17 37 | 1 38 | 8 45 | 9 32 | 0 21 | 0 46 | 23 44 | | n.a. |
| F 4 | 22 12 | 27 9 | 4 47 | 19 53 | 0 11 | 18 4 | 0 43 | 1 49 | 0n 1 | 23 8 | 0 44 | 3 27 | 2 26 | 5 39 | 0 34 | 17 36 | 1 38 | 8 45 | 9 32 | 0 25 | 0 47 | 23 42 | | n.a. |
| S 5 | 22 21 | 28 40 | 5 1 | 20 20 | 0 18 | 18 25 | 0 41 | 1 38 | 0 3 | 23 7 | 0 44 | 3 28 | 2 26 | 5 38 | 0 34 | 17 36 | 1 38 | 8 45 | 9 31 | 0 30 | 0 48 | 23 40 | | n.a. |
| S 6 | 22 29 | 28 8 | 4 54 | 20 47 | 0 25 | 18 46 | 0 39 | 1 26 | 0 4 | 23 5 | 0 44 | 3 30 | 2 26 | 5 38 | 0 34 | 17 36 | 1 38 | 8 45 | 9 31 | 0 34 | 0 49 | 23 38 | | n.a. |
| M 7 | 22 37 | 25 36 | 4 28 | 21 13 | 0 31 | 19 6 | 0 36 | 1 14 | 0 6 | 23 3 | 0 44 | 3 32 | 2 26 | 5 38 | 0 34 | 17 35 | 1 38 | 8 45 | 9 31 | 0 38 | 0 51 | 23 36 | | n.a. |
| T 8 | 22 45 | 21 23 | 3 44 | 21 38 | 0 38 | 19 25 | 0 34 | 1 1 | 0 7 | 23 1 | 0 44 | 3 33 | 2 26 | 5 37 | 0 34 | 17 35 | 1 38 | 8 45 | 9 31 | 0 40 | 0 52 | 23 34 | | n.a. |
| W 9 | 22 52 | 15 58 | 2 46 | 22 2 | 0 44 | 19 44 | 0 31 | 0 49 | 0 9 | 22 59 | 0 44 | 3 35 | 2 27 | 5 37 | 0 34 | 17 35 | 1 38 | 8 44 | 9 31 | 0 42 | 0 53 | 23 32 | | n.a. |
| T 10 | 22 59 | 9 49 | 1 40 | 22 24 | 0 50 | 20 3 | 0 29 | 0 37 | 0 10 | 22 57 | 0 44 | 3 37 | 2 27 | 5 37 | 0 34 | 17 34 | 1 38 | 8 44 | 9 31 | 0 42 | 0 55 | 23 29 | | n.a. |
| F 11 | 23 5 | 3 19 | 0 29 | 22 46 | 0 56 | 20 21 | 0 27 | 0 25 | 0 12 | 22 56 | 0 44 | 3 38 | 2 27 | 5 36 | 0 34 | 17 34 | 1 38 | 8 44 | 9 31 | 0 42 | 0 56 | 23 27 | | n.a. |
| S 12 | 23 11 | 3s12 | 0s43 | 23 7 | 1 2 | 20 38 | 0 24 | 0 12 | 0 13 | 22 54 | 0 44 | 3 40 | 2 27 | 5 36 | 0 34 | 17 33 | 1 38 | 8 44 | 9 31 | 0 42 | 0 57 | 23 25 | | n.a. |
| S 13 | 23 16 | 9 27 | 1 50 | 23 26 | 1 7 | 20 55 | 0 22 | 0n 0 | 0 15 | 22 52 | 0 44 | 3 41 | 2 27 | 5 36 | 0 34 | 17 33 | 1 38 | 8 44 | 9 30 | 0 43 | 0 58 | 23 23 | | n.a. |
| M14 | 23 21 | 15 12 | 2 51 | 23 45 | 1 13 | 21 11 | 0 19 | 0 13 | 0 16 | 22 50 | 0 44 | 3 43 | 2 28 | 5 36 | 0 34 | 17 33 | 1 38 | 8 44 | 9 30 | 0 44 | 1 0 | 23 21 | | n.a. |
| T 15 | 23 25 | 20 11 | 3 42 | 24 2 | 1 18 | 21 26 | 0 17 | 0 25 | 0 17 | 22 48 | 0 44 | 3 44 | 2 28 | 5 35 | 0 34 | 17 32 | 1 38 | 8 44 | 9 30 | 0 47 | 1 1 | 23 19 | | n.a. |
| W16 | 23 29 | 24 12 | 4 21 | 24 18 | 1 23 | 21 41 | 0 14 | 0 38 | 0 19 | 22 45 | 0 44 | 3 46 | 2 28 | 5 35 | 0 34 | 17 32 | 1 38 | 8 44 | 9 30 | 0 51 | 1 2 | 23 16 | | n.a. |
| T 17 | 23 32 | 27 1 | 4 46 | 24 33 | 1 28 | 21 55 | 0 12 | 0 51 | 0 20 | 22 43 | 0 44 | 3 47 | 2 28 | 5 35 | 0 34 | 17 32 | 1 37 | 8 43 | 9 30 | 0 57 | 1 3 | 23 14 | | n.a. |
| F 18 | 23 35 | 28 29 | 4 58 | 24 46 | 1 32 | 22 9 | 0 9 | 1 4 | 0 21 | 22 41 | 0 44 | 3 48 | 2 29 | 5 35 | 0 34 | 17 31 | 1 37 | 8 43 | 9 30 | 1 2 | 1 5 | 23 12 | | n.a. |
| S 19 | 23 37 | 28 32 | 4 56 | 24 58 | 1 36 | 22 22 | 0 7 | 1 16 | 0 22 | 22 39 | 0 44 | 3 50 | 2 29 | 5 35 | 0 34 | 17 31 | 1 37 | 8 43 | 9 29 | 1 8 | 1 6 | 23 10 | | n.a. |
| S 20 | 23 39 | 27 13 | 4 41 | 25 8 | 1 40 | 22 34 | 0 4 | 1 29 | 0 24 | 22 37 | 0 44 | 3 51 | 2 29 | 5 35 | 0 34 | 17 31 | 1 37 | 8 43 | 9 29 | 1 14 | 1 7 | 23 8 | | n.a. |
| M21 | 23 41 | 24 41 | 4 13 | 25 17 | 1 44 | 22 46 | 0 2 | 1 42 | 0 25 | 22 35 | 0 44 | 3 52 | 2 29 | 5 35 | 0 34 | 17 31 | 1 37 | 8 43 | 9 29 | 1 19 | 1 9 | 23 5 | | n.a. |
| T 22 | 23 42 | 21 6 | 3 35 | 25 25 | 1 47 | 22 57 | 0s 1 | 1 55 | 0 26 | 22 32 | 0 44 | 3 53 | 2 29 | 5 34 | 0 34 | 17 30 | 1 37 | 8 43 | 9 29 | 1 23 | 1 10 | 23 3 | | n.a. |
| W23 | 23 42 | 16 42 | 2 47 | 25 31 | 1 50 | 23 7 | 0 3 | 2 8 | 0 27 | 22 30 | 0 44 | 3 54 | 2 30 | 5 34 | 0 34 | 17 30 | 1 37 | 8 43 | 9 29 | 1 26 | 1 11 | 23 1 | | n.a. |
| T 24 | 23 42 | 11 40 | 1 52 | 25 35 | 1 53 | 23 16 | 0 5 | 2 21 | 0 28 | 22 28 | 0 44 | 3 56 | 2 30 | 5 34 | 0 34 | 17 30 | 1 37 | 8 43 | 9 29 | 1 27 | 1 12 | 22 59 | | n.a. |
| F 25 | 23 42 | 6 10 | 0 52 | 25 38 | 1 56 | 23 25 | 0 8 | 2 35 | 0 29 | 22 26 | 0 44 | 3 57 | 2 30 | 5 34 | 0 34 | 17 29 | 1 37 | 8 43 | 9 28 | 1 28 | 1 14 | 22 56 | | n.a. |
| S 26 | 23 41 | 0 22 | 0n12 | 25 39 | 1 58 | 23 33 | 0 10 | 2 48 | 0 30 | 22 23 | 0 44 | 3 58 | 2 30 | 5 34 | 0 33 | 17 29 | 1 37 | 8 43 | 9 28 | 1 28 | 1 15 | 22 54 | | n.a. |
| S 27 | 23 40 | 5n35 | 1 17 | 25 39 | 1 59 | 23 40 | 0 13 | 3 1 | 0 32 | 22 21 | 0 44 | 3 59 | 2 31 | 5 34 | 0 33 | 17 29 | 1 37 | 8 43 | 9 28 | 1 28 | 1 16 | 22 52 | | n.a. |
| M28 | 23 38 | 11 29 | 2 20 | 25 36 | 2 1 | 23 47 | 0 15 | 3 14 | 0 33 | 22 19 | 0 44 | 4 0 | 2 31 | 5 34 | 0 33 | 17 29 | 1 37 | 8 43 | 9 28 | 1 28 | 1 17 | 22 50 | | n.a. |
| T 29 | 23 35 | 17 5 | 3 17 | 25 32 | 2 2 | 23 53 | 0 17 | 3 28 | 0 34 | 22 16 | 0 45 | 4 1 | 2 31 | 5 35 | 0 33 | 17 28 | 1 37 | 8 43 | 9 28 | 1 30 | 1 19 | 22 47 | | n.a. |
| W30 | 23 33 | 22 2 | 4 5 | 25 26 | 2 2 | 23 58 | 0 20 | 3 41 | 0 35 | 22 14 | 0 45 | 4 2 | 2 31 | 5 35 | 0 33 | 17 28 | 1 37 | 8 43 | 9 27 | 1 32 | 1 20 | 22 45 | | n.a. |
| T 31 | 23s29 | 25n56 | 4n41 | 25s18 | 2s 2 | 24s 3 | 0s22 | 3n54 | 0n36 | 22s11 | 0s45 | 4s 2 | 2n32 | 5n35 | 0s33 | 17n28 | 1s37 | 8n43 | 9s27 | 1s36 | 1s21 | 22s43 | | n.a. |

Julian Day Number = 1692537.5, Delta T = 03h09m44s
Ecliptic obliquity = 23°42'25, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°09'23, Lahiri = - 5°02'22 Julian Calendar 1 Dec. 80 BCE == Greg. Calendar 29 Nov. 080 BCE

The year -79 astronomical counting style corresponds to year 080 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 79 BCE
# geocentric

## JANUARY 79 BCE (-78) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 6 30 9 | 8♑33'52 | 19♊25 | 12♑26 | 28♐16 | 8♈54 | 24♑46 | 16♎ 4 | 15♈18 | 24°R10 | 19°R33 | 25°R52 | 26♓34 | 6♒30 | n.a. | F 1 |
| S 2 | 6 34 6 | 9°34'48 | 4♋25 | 14°12 | 29°31 | 9°26 | 25° 0 | 16° 6 | 15°19 | 24♉ 9 | 19♉33 | 25♓40 | 26°31 | 6°36 | n.a. | S 2 |
| S 3 | 6 38 2 | 10°35'42 | 19°36 | 15°58 | 0♑47 | 9°58 | 25°15 | 16° 9 | 15°19 | 24° 8 | 19°32 | 25°29 | 26°28 | 6°43 | n.a. | S 3 |
| M 4 | 6 41 59 | 11°36'35 | 4♌48 | 17°44 | 2° 2 | 10°29 | 25°29 | 16°11 | 15°19 | 24° 7 | 19°31 | 25°20 | 26°25 | 6°50 | n.a. | M 4 |
| T 5 | 6 45 55 | 12°37'27 | 19°51 | 19°31 | 3°17 | 11° 1 | 25°43 | 16°14 | 15°20 | 24° 6 | 19°31 | 25°13 | 26°22 | 6°56 | n.a. | T 5 |
| W 6 | 6 49 52 | 13°38'18 | 4♍36 | 21°18 | 4°32 | 11°33 | 25°57 | 16°16 | 15°20 | 24° 5 | 19°30 | 25° 9 | 26°19 | 7° 3 | n.a. | W 6 |
| T 7 | 6 53 48 | 14°39'07 | 18°58 | 23° 5 | 5°47 | 12° 5 | 26°11 | 16°18 | 15°21 | 24° 4 | 19°29 | 25°D 7 | 26°15 | 7°10 | n.a. | T 7 |
| F 8 | 6 57 45 | 15°39'56 | 2♎56 | 24°53 | 7° 2 | 12°37 | 26°26 | 16°20 | 15°21 | 24° 3 | 19°29 | 25° 7 | 26°12 | 7°16 | n.a. | F 8 |
| S 9 | 7 1 42 | 16°40'43 | 16°30 | 26°40 | 8°17 | 13°10 | 26°40 | 16°22 | 15°22 | 24° 2 | 19°28 | 25°R 8 | 26° 9 | 7°23 | n.a. | S 9 |
| S 10 | 7 5 38 | 17°41'29 | 29°42 | 28°28 | 9°33 | 13°42 | 26°54 | 16°24 | 15°23 | 24° 1 | 19°28 | 25° 7 | 26° 6 | 7°30 | n.a. | S 10 |
| M11 | 7 9 35 | 18°42'15 | 12♏35 | 0♒14 | 10°48 | 14°15 | 27° 9 | 16°25 | 15°24 | 24° 0 | 19°27 | 25° 4 | 26° 3 | 7°36 | n.a. | M11 |
| T 12 | 7 13 31 | 19°42'59 | 25°13 | 2° 1 | 12° 3 | 14°47 | 27°23 | 16°27 | 15°25 | 24° 0 | 19°27 | 24°59 | 26° 0 | 7°43 | n.a. | T 12 |
| W13 | 7 17 28 | 20°43'41 | 7♐39 | 3°46 | 13°18 | 15°20 | 27°37 | 16°29 | 15°25 | 23°59 | 19°26 | 24°51 | 25°56 | 7°50 | n.a. | W13 |
| T 14 | 7 21 24 | 21°44'23 | 19°54 | 5°30 | 14°33 | 15°53 | 27°52 | 16°30 | 15°26 | 23°58 | 19°26 | 24°41 | 25°53 | 7°57 | n.a. | T 14 |
| F 15 | 7 25 21 | 22°45'03 | 2♑ 2 | 7°12 | 15°48 | 16°26 | 28° 6 | 16°31 | 15°27 | 23°57 | 19°25 | 24°29 | 25°50 | 8° 3 | n.a. | F 15 |
| S 16 | 7 29 17 | 23°45'42 | 14° 2 | 8°53 | 17° 3 | 16°59 | 28°20 | 16°33 | 15°28 | 23°57 | 19°25 | 24°16 | 25°47 | 8°10 | n.a. | S 16 |
| S 17 | 7 33 14 | 24°46'19 | 25°58 | 10°31 | 18°18 | 17°32 | 28°35 | 16°34 | 15°29 | 23°56 | 19°24 | 24° 5 | 25°44 | 8°17 | n.a. | S 17 |
| M18 | 7 37 11 | 25°46'54 | 7♒49 | 12° 5 | 19°33 | 18° 6 | 28°49 | 16°35 | 15°31 | 23°55 | 19°24 | 23°54 | 25°40 | 8°23 | n.a. | M18 |
| T 19 | 7 41 7 | 26°47'28 | 19°38 | 13°37 | 20°48 | 18°39 | 29° 4 | 16°36 | 15°32 | 23°55 | 19°24 | 23°46 | 25°37 | 8°30 | n.a. | T 19 |
| W20 | 7 45 4 | 27°47'59 | 1♓27 | 15° 3 | 22° 3 | 19°12 | 29°18 | 16°36 | 15°33 | 23°54 | 19°23 | 23°41 | 25°34 | 8°37 | n.a. | W20 |
| T 21 | 7 49 0 | 28°48'29 | 13°18 | 16°26 | 23°18 | 19°46 | 29°33 | 16°37 | 15°34 | 23°54 | 19°23 | 23°38 | 25°31 | 8°43 | n.a. | T 21 |
| F 22 | 7 52 57 | 29°48'57 | 25°14 | 17°42 | 24°33 | 20°20 | 29°47 | 16°38 | 15°36 | 23°53 | 19°23 | 23°D38 | 25°28 | 8°50 | n.a. | F 22 |
| S 23 | 7 56 53 | 0♒49'23 | 7♈21 | 18°52 | 25°48 | 20°53 | 0♒ 1 | 16°38 | 15°37 | 23°53 | 19°22 | 23°38 | 25°25 | 8°57 | n.a. | S 23 |
| S 24 | 8 0 50 | 1°49'47 | 19°42 | 19°56 | 27° 3 | 21°27 | 0°16 | 16°39 | 15°38 | 23°52 | 19°22 | 23°40 | 25°21 | 9° 3 | n.a. | S 24 |
| M25 | 8 4 46 | 2°50'09 | 2♉22 | 20°52 | 28°18 | 22° 1 | 0°30 | 16°39 | 15°40 | 23°52 | 19°22 | 23°R40 | 25°18 | 9°10 | n.a. | M25 |
| T 26 | 8 8 43 | 3°50'29 | 15°26 | 21°39 | 29°33 | 22°35 | 0°45 | 16°39 | 15°41 | 23°51 | 19°22 | 23°39 | 25°15 | 9°17 | n.a. | T 26 |
| W27 | 8 12 40 | 4°50'47 | 28°58 | 22°19 | 0♒48 | 23° 9 | 0°59 | 16°R39 | 15°43 | 23°51 | 19°21 | 23°37 | 25°12 | 9°23 | n.a. | W27 |
| T 28 | 8 16 36 | 5°51'03 | 12♊59 | 22°49 | 2° 3 | 23°43 | 1°13 | 16°39 | 15°45 | 23°51 | 19°21 | 23°32 | 25° 9 | 9°30 | n.a. | T 28 |
| F 29 | 8 20 33 | 6°51'16 | 27°29 | 23°10 | 3°18 | 24°17 | 1°28 | 16°39 | 15°46 | 23°51 | 19°21 | 23°26 | 25° 6 | 9°37 | n.a. | F 29 |
| S 30 | 8 24 29 | 7°51'28 | 12♋24 | 23°21 | 4°33 | 24°51 | 1°42 | 16°39 | 15°48 | 23°50 | 19°21 | 23°19 | 25° 2 | 9°44 | n.a. | S 30 |
| S 31 | 8 28 26 | 8♒51'37 | 27♋36 | 23°R22 | 5♒48 | 25♈26 | 1♒56 | 16♎39 | 15♈50 | 23♉50 | 19♉21 | 23♓12 | 24♓59 | 9♒50 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 23s26 | 28n15 | 4n59 | 25s 8 | 2s 2 | 24s 6 | 0s24 | 4n 8 | 0n37 | 22s 9 | 0s45 | 4s 3 | 2n32 | 5n35 | 0s33 | 17n28 | 1s37 | 8n43 | 9s27 | 1s40 | 1s23 | 22s41 | | n.a. |
| S 2 | 23 21 | 28 35 | 4 57 | 24 57 | 2 1 | 24 9 | 0 27 | 4 21 | 0 37 | 22 6 | 0 45 | 4 4 | 2 32 | 5 35 | 0 33 | 17 27 | 1 37 | 8 43 | 9 27 | 1 44 | 1 24 | 22 38 | | n.a. |
| S 3 | 23 17 | 26 47 | 4 35 | 24 43 | 2 0 | 24 11 | 0 29 | 4 34 | 0 38 | 22 4 | 0 45 | 4 5 | 2 32 | 5 35 | 0 33 | 17 27 | 1 37 | 8 43 | 9 27 | 1 49 | 1 25 | 22 36 | | n.a. |
| M 4 | 23 12 | 23 3 | 3 53 | 24 28 | 1 58 | 24 13 | 0 31 | 4 48 | 0 39 | 22 1 | 0 45 | 4 5 | 2 33 | 5 35 | 0 33 | 17 27 | 1 37 | 8 43 | 9 26 | 1 53 | 1 26 | 22 34 | | n.a. |
| T 5 | 23 6 | 17 48 | 2 55 | 24 10 | 1 55 | 24 13 | 0 34 | 5 1 | 0 40 | 21 58 | 0 45 | 4 6 | 2 33 | 5 36 | 0 33 | 17 27 | 1 37 | 8 43 | 9 26 | 1 55 | 1 28 | 22 32 | | n.a. |
| W 6 | 23 0 | 11 35 | 1 47 | 23 51 | 1 52 | 24 13 | 0 36 | 5 15 | 0 41 | 21 56 | 0 45 | 4 7 | 2 33 | 5 36 | 0 33 | 17 27 | 1 37 | 8 43 | 9 26 | 1 57 | 1 29 | 22 29 | | n.a. |
| T 7 | 22 53 | 4 55 | 0 33 | 23 29 | 1 48 | 24 13 | 0 38 | 5 28 | 0 42 | 21 53 | 0 45 | 4 7 | 2 33 | 5 36 | 0 33 | 17 26 | 1 37 | 8 43 | 9 26 | 1 58 | 1 30 | 22 27 | | n.a. |
| F 8 | 22 47 | 1s49 | 0s41 | 23 6 | 1 44 | 24 11 | 0 40 | 5 42 | 0 43 | 21 50 | 0 45 | 4 8 | 2 34 | 5 36 | 0 33 | 17 26 | 1 37 | 8 43 | 9 26 | 1 58 | 1 32 | 22 25 | | n.a. |
| S 9 | 22 39 | 8 16 | 1 51 | 22 41 | 1 39 | 24 9 | 0 42 | 5 55 | 0 44 | 21 48 | 0 45 | 4 8 | 2 34 | 5 37 | 0 33 | 17 26 | 1 36 | 8 43 | 9 25 | 1 57 | 1 33 | 22 22 | | n.a. |
| S 10 | 22 31 | 14 11 | 2 53 | 22 13 | 1 33 | 24 6 | 0 44 | 6 9 | 0 44 | 21 45 | 0 45 | 4 9 | 2 34 | 5 37 | 0 33 | 17 26 | 1 36 | 8 43 | 9 25 | 1 58 | 1 34 | 22 20 | | n.a. |
| M11 | 22 23 | 19 20 | 3 44 | 21 44 | 1 27 | 24 2 | 0 46 | 6 22 | 0 45 | 21 42 | 0 45 | 4 9 | 2 34 | 5 37 | 0 33 | 17 26 | 1 36 | 8 43 | 9 25 | 1 59 | 1 35 | 22 18 | | n.a. |
| T 12 | 22 14 | 23 32 | 4 23 | 21 14 | 1 20 | 23 57 | 0 48 | 6 36 | 0 46 | 21 39 | 0 45 | 4 10 | 2 35 | 5 38 | 0 33 | 17 26 | 1 36 | 8 43 | 9 25 | 2 1 | 1 37 | 22 15 | | n.a. |
| W13 | 22 5 | 26 35 | 4 49 | 20 42 | 1 12 | 23 52 | 0 50 | 6 49 | 0 47 | 21 37 | 0 45 | 4 10 | 2 35 | 5 38 | 0 33 | 17 25 | 1 36 | 8 43 | 9 24 | 2 4 | 1 38 | 22 13 | | n.a. |
| T 14 | 21 56 | 28 20 | 5 2 | 20 8 | 1 3 | 23 46 | 0 52 | 7 3 | 0 47 | 21 34 | 0 45 | 4 10 | 2 35 | 5 38 | 0 33 | 17 25 | 1 36 | 8 44 | 9 24 | 2 8 | 1 39 | 22 11 | | n.a. |
| F 15 | 21 46 | 28 42 | 5 0 | 19 33 | 0 54 | 23 39 | 0 54 | 7 16 | 0 48 | 21 31 | 0 46 | 4 11 | 2 35 | 5 39 | 0 33 | 17 25 | 1 36 | 8 44 | 9 24 | 2 13 | 1 40 | 22 8 | | n.a. |
| S 16 | 21 35 | 27 41 | 4 45 | 18 57 | 0 44 | 23 31 | 0 56 | 7 30 | 0 49 | 21 28 | 0 46 | 4 11 | 2 36 | 5 39 | 0 33 | 17 25 | 1 36 | 8 44 | 9 24 | 2 18 | 1 42 | 22 6 | | n.a. |
| S 17 | 21 25 | 25 25 | 4 18 | 18 20 | 0 33 | 23 23 | 0 57 | 7 43 | 0 50 | 21 25 | 0 46 | 4 11 | 2 36 | 5 40 | 0 33 | 17 25 | 1 36 | 8 44 | 9 24 | 2 23 | 1 43 | 22 3 | | n.a. |
| M18 | 21 14 | 22 3 | 3 39 | 17 42 | 0 21 | 23 14 | 0 59 | 7 57 | 0 50 | 21 22 | 0 46 | 4 11 | 2 36 | 5 40 | 0 33 | 17 25 | 1 36 | 8 44 | 9 23 | 2 27 | 1 44 | 22 1 | | n.a. |
| T 19 | 21 2 | 17 48 | 2 52 | 17 4 | 0 9 | 23 5 | 1 1 | 8 10 | 0 51 | 21 19 | 0 46 | 4 11 | 2 36 | 5 41 | 0 33 | 17 25 | 1 36 | 8 44 | 9 23 | 2 30 | 1 46 | 21 59 | | n.a. |
| W20 | 20 50 | 12 53 | 1 56 | 16 26 | 0n 4 | 22 54 | 1 2 | 8 24 | 0 52 | 21 16 | 0 46 | 4 11 | 2 37 | 5 41 | 0 33 | 17 25 | 1 36 | 8 44 | 9 23 | 2 32 | 1 47 | 21 56 | | n.a. |
| T 21 | 20 38 | 7 29 | 0 55 | 15 48 | 0 18 | 22 43 | 1 4 | 8 37 | 0 52 | 21 13 | 0 46 | 4 11 | 2 37 | 5 42 | 0 33 | 17 25 | 1 36 | 8 44 | 9 23 | 2 33 | 1 48 | 21 54 | | n.a. |
| F 22 | 20 25 | 1 47 | 0n 9 | 15 11 | 0 33 | 22 31 | 1 5 | 8 51 | 0 53 | 21 10 | 0 46 | 4 11 | 2 37 | 5 42 | 0 33 | 17 25 | 1 36 | 8 45 | 9 22 | 2 33 | 1 49 | 21 52 | | n.a. |
| S 23 | 20 12 | 4n 4 | 1 13 | 14 35 | 0 48 | 22 19 | 1 7 | 9 4 | 0 53 | 21 7 | 0 46 | 4 11 | 2 38 | 5 43 | 0 32 | 17 24 | 1 36 | 8 45 | 9 22 | 2 33 | 1 51 | 21 49 | | n.a. |
| S 24 | 19 58 | 9 53 | 2 16 | 14 0 | 1 3 | 22 6 | 1 8 | 9 17 | 0 54 | 21 4 | 0 46 | 4 11 | 2 38 | 5 43 | 0 32 | 17 24 | 1 36 | 8 45 | 9 22 | 2 33 | 1 52 | 21 47 | | n.a. |
| M25 | 19 45 | 15 27 | 3 13 | 13 28 | 1 18 | 21 52 | 1 10 | 9 31 | 0 55 | 21 1 | 0 46 | 4 11 | 2 38 | 5 44 | 0 32 | 17 24 | 1 36 | 8 45 | 9 22 | 2 32 | 1 53 | 21 44 | | n.a. |
| T 26 | 19 30 | 20 30 | 4 3 | 12 57 | 1 34 | 21 38 | 1 11 | 9 44 | 0 55 | 20 58 | 0 46 | 4 11 | 2 38 | 5 45 | 0 32 | 17 24 | 1 35 | 8 45 | 9 21 | 2 33 | 1 54 | 21 42 | | n.a. |
| W27 | 19 16 | 24 42 | 4 40 | 12 30 | 1 50 | 21 23 | 1 12 | 9 57 | 0 56 | 20 55 | 0 47 | 4 11 | 2 39 | 5 45 | 0 32 | 17 24 | 1 35 | 8 45 | 9 21 | 2 34 | 1 56 | 21 40 | | n.a. |
| T 28 | 19 1 | 27 37 | 5 3 | 12 5 | 2 6 | 21 7 | 1 14 | 10 11 | 0 56 | 20 52 | 0 47 | 4 11 | 2 39 | 5 46 | 0 32 | 17 24 | 1 35 | 8 46 | 9 21 | 2 36 | 1 57 | 21 37 | | n.a. |
| F 29 | 18 46 | 28 48 | 5 7 | 11 44 | 2 21 | 20 51 | 1 15 | 10 24 | 0 57 | 20 49 | 0 47 | 4 10 | 2 39 | 5 47 | 0 32 | 17 24 | 1 35 | 8 46 | 9 21 | 2 38 | 1 58 | 21 35 | | n.a. |
| S 30 | 18 30 | 27 57 | 4 51 | 11 26 | 2 36 | 20 34 | 1 16 | 10 37 | 0 58 | 20 46 | 0 47 | 4 10 | 2 39 | 5 47 | 0 32 | 17 24 | 1 35 | 8 46 | 9 20 | 2 41 | 2 0 | 21 32 | | n.a. |
| S 31 | 18s15 | 25n 2 | 4n15 | 11s13 | 2n49 | 20s16 | 1s17 | 10n50 | 0n58 | 20s43 | 0s47 | 4s10 | 2n40 | 5n48 | 0s32 | 17n24 | 1s35 | 8n46 | 9s20 | 2s44 | 2s 1 | 21s30 | | n.a. |

Julian Day Number = 1692568.5, Delta T = 03h09m43s
Ecliptic obliquity = 23°42'25, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°09'19, Lahiri = - 5°02'18 Julian Calendar 1 Jan. 79 BCE == Greg. Calendar 30 Dec. 080 BCE

The year -78 astronomical counting style corresponds to year 079 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 79 BCE
# geocentric

## FEBRUARY 79 BCE (-78) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 8 32 22 | 9♒51'44 | 12♌54 | 23°R14 | 7♒ 2 | 26♈ 0 | 2♒11 | 16°R38 | 15♈52 | 23°R50 | 19°R21 | 23°R 6 | 24♓56 | 9♒57 | n.a. | M 1 |
| T 2 | 8 36 19 | 10°51'50 | 28° 9 | 22♒57 | 8°17 | 26°34 | 2°25 | 16♎38 | 15°53 | 23♉50 | 19♉21 | 23♓ 2 | 24°53 | 10° 4 | n.a. | T 2 |
| W 3 | 8 40 15 | 11°51'53 | 13♍10 | 22°31 | 9°32 | 27° 9 | 2°39 | 16°37 | 15°55 | 23°50 | 19°21 | 23° 0 | 24°50 | 10°10 | n.a. | W 3 |
| T 4 | 8 44 12 | 12°51'55 | 27°49 | 21°57 | 10°47 | 27°43 | 2°54 | 16°36 | 15°57 | 23°50 | 19°D21 | 22°D59 | 24°46 | 10°17 | n.a. | T 4 |
| F 5 | 8 48 9 | 13°51'55 | 12♎ 1 | 21°16 | 12° 2 | 28°18 | 3° 8 | 16°36 | 15°59 | 23°50 | 19°21 | 23° 0 | 24°43 | 10°24 | n.a. | F 5 |
| S 6 | 8 52 5 | 14°51'53 | 25°47 | 20°29 | 13°16 | 28°52 | 3°22 | 16°35 | 16° 1 | 23°D50 | 19°21 | 23° 2 | 24°40 | 10°30 | n.a. | S 6 |
| S 7 | 8 56 2 | 15°51'49 | 9♏ 6 | 19°36 | 14°31 | 29°27 | 3°37 | 16°34 | 16° 3 | 23°50 | 19°21 | 23° 3 | 24°37 | 10°37 | n.a. | S 7 |
| M 8 | 8 59 58 | 16°51'44 | 22° 2 | 18°40 | 15°46 | 0♉ 2 | 3°51 | 16°32 | 16° 5 | 23°50 | 19°21 | 23°R 3 | 24°34 | 10°44 | n.a. | M 8 |
| T 9 | 9 3 55 | 17°51'37 | 4♐38 | 17°42 | 17° 1 | 0°37 | 4° 5 | 16°31 | 16° 7 | 23°50 | 19°21 | 23° 2 | 24°31 | 10°50 | n.a. | T 9 |
| W10 | 9 7 51 | 18°51'28 | 16°58 | 16°43 | 18°15 | 1°11 | 4°19 | 16°30 | 16°10 | 23°50 | 19°21 | 22°59 | 24°27 | 10°57 | n.a. | W10 |
| T 11 | 9 11 48 | 19°51'18 | 29° 6 | 15°44 | 19°30 | 1°46 | 4°33 | 16°29 | 16°12 | 23°50 | 19°21 | 22°54 | 24°24 | 11° 4 | n.a. | T 11 |
| F 12 | 9 15 44 | 20°51'05 | 11♑ 5 | 14°46 | 20°45 | 2°21 | 4°48 | 16°27 | 16°14 | 23°50 | 19°21 | 22°49 | 24°21 | 11°10 | n.a. | F 12 |
| S 13 | 9 19 41 | 21°50'51 | 22°59 | 13°52 | 22° 0 | 2°56 | 5° 2 | 16°25 | 16°16 | 23°51 | 19°22 | 22°43 | 24°18 | 11°17 | n.a. | S 13 |
| S 14 | 9 23 38 | 22°50'35 | 4♒49 | 13° 1 | 23°14 | 3°31 | 5°16 | 16°24 | 16°19 | 23°51 | 19°22 | 22°37 | 24°15 | 11°24 | n.a. | S 14 |
| M15 | 9 27 34 | 23°50'16 | 16°38 | 12°15 | 24°29 | 4° 6 | 5°30 | 16°22 | 16°21 | 23°51 | 19°22 | 22°32 | 24°12 | 11°30 | n.a. | M15 |
| T 16 | 9 31 31 | 24°49'56 | 28°28 | 11°34 | 25°43 | 4°41 | 5°44 | 16°20 | 16°24 | 23°52 | 19°22 | 22°29 | 24° 8 | 11°37 | n.a. | T 16 |
| W17 | 9 35 27 | 25°49'33 | 10♓21 | 10°58 | 26°58 | 5°17 | 5°58 | 16°18 | 16°26 | 23°52 | 19°22 | 22°27 | 24° 5 | 11°44 | n.a. | W17 |
| T 18 | 9 39 24 | 26°49'08 | 22°18 | 10°29 | 28°13 | 5°52 | 6°12 | 16°16 | 16°28 | 23°52 | 19°23 | 22°D26 | 24° 2 | 11°51 | n.a. | T 18 |
| F 19 | 9 43 20 | 27°48'41 | 4♈23 | 10° 5 | 29°27 | 6°27 | 6°26 | 16°14 | 16°31 | 23°53 | 19°23 | 22°27 | 23°59 | 11°57 | n.a. | F 19 |
| S 20 | 9 47 17 | 28°48'11 | 16°37 | 9°48 | 0♓42 | 7° 2 | 6°40 | 16°12 | 16°34 | 23°53 | 19°23 | 22°28 | 23°56 | 12° 4 | n.a. | S 20 |
| S 21 | 9 51 13 | 29°47'40 | 29° 5 | 9°37 | 1°56 | 7°38 | 6°53 | 16° 9 | 16°36 | 23°54 | 19°24 | 22°30 | 23°52 | 12°11 | n.a. | S 21 |
| M22 | 9 55 10 | 0♓47'05 | 11♉48 | 9°D31 | 3°11 | 8°13 | 7° 7 | 16° 7 | 16°39 | 23°54 | 19°24 | 22°31 | 23°49 | 12°17 | n.a. | M22 |
| T 23 | 9 59 6 | 1°46'29 | 24°52 | 9°32 | 4°25 | 8°48 | 7°21 | 16° 4 | 16°41 | 23°55 | 19°25 | 22°32 | 23°46 | 12°24 | n.a. | T 23 |
| W24 | 10 3 3 | 2°45'50 | 8♊18 | 9°39 | 5°40 | 9°24 | 7°35 | 16° 2 | 16°44 | 23°55 | 19°25 | 22°R32 | 23°43 | 12°31 | n.a. | W24 |
| T 25 | 10 7 0 | 3°45'09 | 22° 8 | 9°51 | 6°54 | 9°59 | 7°49 | 15°59 | 16°47 | 23°56 | 19°25 | 22°31 | 23°40 | 12°37 | n.a. | T 25 |
| F 26 | 10 10 56 | 4°44'25 | 6♋23 | 10° 8 | 8° 9 | 10°35 | 8° 2 | 15°56 | 16°50 | 23°57 | 19°26 | 22°30 | 23°37 | 12°44 | n.a. | F 26 |
| S 27 | 10 14 53 | 5°43'39 | 21° 1 | 10°30 | 9°23 | 11°10 | 8°16 | 15°54 | 16°52 | 23°58 | 19°26 | 22°27 | 23°33 | 12°51 | n.a. | S 27 |
| S 28 | 10 18 49 | 6♓42'51 | 5♌56 | 10♒57 | 10♓38 | 11♉46 | 8♒29 | 15♎51 | 16♈55 | 23♉58 | 19♉27 | 22♓25 | 23♓30 | 12♒57 | n.a. | S 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 17s59 | 20n19 | 3n20 | 11s 3 | 3n 2 | 19s58 | 1s18 | 11n 4 | 0n59 | 20s39 | 0s47 | 4s 9 | 2n40 | 5n49 | 0s32 | 17n24 | 1s35 | 8n46 | 9s20 | 2s46 | 2s 2 | 21s27 | | n.a. |
| T 2 | 17 42 | 14 17 | 2 11 | 10 58 | 3 14 | 19 40 | 1 19 | 11 17 | 0 59 | 20 36 | 0 47 | 4 9 | 2 40 | 5 50 | 0 32 | 17 24 | 1 35 | 8 47 | 9 20 | 2 48 | 2 3 | 21 25 | | n.a. |
| W 3 | 17 25 | 7 30 | 0 53 | 10 56 | 3 25 | 19 21 | 1 20 | 11 30 | 1 0 | 20 33 | 0 47 | 4 8 | 2 40 | 5 50 | 0 32 | 17 24 | 1 35 | 8 47 | 9 19 | 2 49 | 2 5 | 21 22 | | n.a. |
| T 4 | 17 8 | 0 29 | 0s26 | 10 59 | 3 33 | 19 1 | 1 20 | 11 43 | 1 0 | 20 30 | 0 47 | 4 8 | 2 41 | 5 51 | 0 32 | 17 24 | 1 35 | 8 47 | 9 19 | 2 49 | 2 6 | 21 20 | | n.a. |
| F 5 | 16 51 | 6s22 | 1 42 | 11 6 | 3 40 | 18 41 | 1 21 | 11 56 | 1 1 | 20 27 | 0 47 | 4 7 | 2 41 | 5 52 | 0 32 | 17 24 | 1 35 | 8 47 | 9 19 | 2 48 | 2 7 | 21 17 | | n.a. |
| S 6 | 16 33 | 12 41 | 2 49 | 11 16 | 3 45 | 18 20 | 1 22 | 12 9 | 1 1 | 20 23 | 0 48 | 4 7 | 2 41 | 5 53 | 0 32 | 17 25 | 1 35 | 8 48 | 9 19 | 2 48 | 2 8 | 21 15 | | n.a. |
| S 7 | 16 16 | 18 14 | 3 45 | 11 29 | 3 49 | 17 58 | 1 23 | 12 22 | 1 1 | 20 20 | 0 48 | 4 6 | 2 41 | 5 54 | 0 32 | 17 25 | 1 35 | 8 48 | 9 18 | 2 47 | 2 10 | 21 13 | | n.a. |
| M 8 | 15 57 | 22 47 | 4 27 | 11 46 | 3 50 | 17 37 | 1 23 | 12 34 | 1 2 | 20 17 | 0 48 | 4 5 | 2 42 | 5 54 | 0 32 | 17 25 | 1 35 | 8 48 | 9 18 | 2 47 | 2 11 | 21 10 | | n.a. |
| T 9 | 15 39 | 26 9 | 4 56 | 12 5 | 3 48 | 17 14 | 1 24 | 12 47 | 1 2 | 20 13 | 0 48 | 4 5 | 2 42 | 5 55 | 0 32 | 17 25 | 1 35 | 8 48 | 9 18 | 2 48 | 2 12 | 21 8 | | n.a. |
| W10 | 15 20 | 28 12 | 5 10 | 12 25 | 3 45 | 16 51 | 1 24 | 13 0 | 1 3 | 20 10 | 0 48 | 4 4 | 2 42 | 5 56 | 0 32 | 17 25 | 1 35 | 8 49 | 9 18 | 2 49 | 2 14 | 21 5 | | n.a. |
| T 11 | 15 1 | 28 52 | 5 10 | 12 48 | 3 40 | 16 28 | 1 24 | 13 13 | 1 3 | 20 7 | 0 48 | 4 3 | 2 42 | 5 57 | 0 32 | 17 25 | 1 35 | 8 49 | 9 17 | 2 51 | 2 15 | 21 3 | | n.a. |
| F 12 | 14 42 | 28 9 | 4 56 | 13 11 | 3 33 | 16 5 | 1 25 | 13 25 | 1 4 | 20 4 | 0 48 | 4 2 | 2 42 | 5 58 | 0 32 | 17 25 | 1 34 | 8 49 | 9 17 | 2 53 | 2 16 | 21 0 | | n.a. |
| S 13 | 14 23 | 26 9 | 4 30 | 13 35 | 3 25 | 15 40 | 1 25 | 13 38 | 1 4 | 20 0 | 0 48 | 4 2 | 2 43 | 5 59 | 0 32 | 17 25 | 1 34 | 8 49 | 9 17 | 2 55 | 2 17 | 20 58 | | n.a. |
| S 14 | 14 3 | 23 1 | 3 52 | 13 59 | 3 15 | 15 16 | 1 25 | 13 50 | 1 4 | 19 57 | 0 48 | 4 1 | 2 43 | 6 0 | 0 32 | 17 25 | 1 34 | 8 50 | 9 17 | 2 58 | 2 19 | 20 55 | | n.a. |
| M15 | 13 43 | 18 56 | 3 4 | 14 23 | 3 4 | 14 51 | 1 25 | 14 3 | 1 5 | 19 53 | 0 49 | 4 0 | 2 43 | 6 1 | 0 32 | 17 25 | 1 34 | 8 50 | 9 16 | 3 0 | 2 20 | 20 52 | | n.a. |
| T 16 | 13 23 | 14 8 | 2 8 | 14 46 | 2 51 | 14 25 | 1 25 | 14 15 | 1 5 | 19 50 | 0 49 | 3 59 | 2 43 | 6 2 | 0 32 | 17 26 | 1 34 | 8 50 | 9 16 | 3 1 | 2 21 | 20 50 | | n.a. |
| W17 | 13 3 | 8 47 | 1 6 | 15 8 | 2 38 | 14 0 | 1 25 | 14 27 | 1 6 | 19 47 | 0 49 | 3 58 | 2 44 | 6 3 | 0 32 | 17 26 | 1 34 | 8 51 | 9 16 | 3 2 | 2 22 | 20 47 | | n.a. |
| T 18 | 12 43 | 3 6 | 0 1 | 15 29 | 2 25 | 13 34 | 1 25 | 14 40 | 1 6 | 19 43 | 0 49 | 3 57 | 2 44 | 6 4 | 0 32 | 17 26 | 1 34 | 8 51 | 9 16 | 3 2 | 2 24 | 20 45 | | n.a. |
| F 19 | 12 22 | 2n46 | 1n 5 | 15 49 | 2 10 | 13 7 | 1 25 | 14 52 | 1 6 | 19 40 | 0 49 | 3 56 | 2 44 | 6 5 | 0 32 | 17 26 | 1 34 | 8 51 | 9 15 | 3 2 | 2 25 | 20 42 | | n.a. |
| S 20 | 12 1 | 8 35 | 2 9 | 16 8 | 1 56 | 12 40 | 1 25 | 15 4 | 1 7 | 19 36 | 0 49 | 3 55 | 2 44 | 6 6 | 0 32 | 17 26 | 1 34 | 8 52 | 9 15 | 3 1 | 2 26 | 20 40 | | n.a. |
| S 21 | 11 40 | 14 12 | 3 8 | 16 25 | 1 42 | 12 13 | 1 25 | 15 16 | 1 7 | 19 33 | 0 49 | 3 54 | 2 44 | 6 7 | 0 32 | 17 26 | 1 34 | 8 52 | 9 15 | 3 1 | 2 28 | 20 37 | | n.a. |
| M22 | 11 19 | 19 20 | 4 0 | 16 40 | 1 27 | 11 46 | 1 24 | 15 28 | 1 7 | 19 30 | 0 49 | 3 53 | 2 45 | 6 8 | 0 32 | 17 27 | 1 34 | 8 52 | 9 15 | 3 0 | 2 29 | 20 35 | | n.a. |
| T 23 | 10 58 | 23 43 | 4 40 | 16 54 | 1 13 | 11 18 | 1 24 | 15 40 | 1 8 | 19 26 | 0 50 | 3 51 | 2 45 | 6 9 | 0 32 | 17 27 | 1 34 | 8 53 | 9 14 | 3 0 | 2 30 | 20 32 | | n.a. |
| W24 | 10 36 | 26 58 | 5 6 | 17 6 | 0 58 | 10 50 | 1 24 | 15 51 | 1 8 | 19 23 | 0 50 | 3 50 | 2 45 | 6 10 | 0 32 | 17 27 | 1 34 | 8 53 | 9 14 | 3 0 | 2 31 | 20 30 | | n.a. |
| T 25 | 10 15 | 28 43 | 5 16 | 17 16 | 0 44 | 10 21 | 1 23 | 16 3 | 1 8 | 19 19 | 0 50 | 3 49 | 2 45 | 6 11 | 0 32 | 17 27 | 1 34 | 8 53 | 9 14 | 3 0 | 2 33 | 20 27 | | n.a. |
| F 26 | 9 53 | 28 39 | 5 7 | 17 25 | 0 31 | 9 53 | 1 23 | 16 15 | 1 9 | 19 16 | 0 50 | 3 48 | 2 45 | 6 12 | 0 31 | 17 27 | 1 34 | 8 54 | 9 14 | 3 1 | 2 34 | 20 24 | | n.a. |
| S 27 | 9 31 | 26 37 | 4 38 | 17 31 | 0 17 | 9 24 | 1 22 | 16 26 | 1 9 | 19 12 | 0 50 | 3 47 | 2 46 | 6 13 | 0 31 | 17 28 | 1 34 | 8 54 | 9 14 | 3 1 | 2 35 | 20 22 | | n.a. |
| S 28 | 9s 9 | 22n42 | 3n49 | 17s36 | 0n 5 | 8s55 | 1s21 | 16n38 | 1n 9 | 19s 9 | 0s50 | 3s45 | 2n46 | 6n14 | 0s31 | 17n28 | 1s33 | 8n54 | 9s13 | 3s 2 | 2s36 | 20s19 | | n.a. |

Julian Day Number = 1692599.5, Delta T = 03h09m42s
Ecliptic obliquity = 23°42'26, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°09'14, Lahiri = - 5°02'14 Julian Calendar 1 Feb. 79 BCE == Greg. Calendar 30 Jan. 079 BCE


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# ASTRODIENST EPHEMERIS for the year 79 BCE
# geocentric

## MARCH 79 BCE (-78) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 10 22 46 | 7♓42'00 | 21♌ 2 | 11♒28 | 11♓52 | 12♉22 | 8♒43 | 15°R48 | 16♈58 | 23♉59 | 19♉27 | 22°R24 | 23♓27 | 13♒ 4 | n.a. | M 1 |
| T 2 | 10 26 42 | 8°41'06 | 6♍10 | 12° 3 | 13° 7 | 12°57 | 8°56 | 15♎45 | 17° 1 | 24° 0 | 19°28 | 22♓23 | 23°24 | 13°11 | n.a. | T 2 |
| W 3 | 10 30 39 | 9°40'11 | 21°10 | 12°43 | 14°21 | 13°33 | 9°10 | 15°41 | 17° 4 | 24° 1 | 19°29 | 22°D22 | 23°21 | 13°17 | n.a. | W 3 |
| T 4 | 10 34 35 | 10°39'13 | 5♎54 | 13°26 | 15°35 | 14° 9 | 9°23 | 15°38 | 17° 7 | 24° 2 | 19°29 | 22°22 | 23°18 | 13°24 | n.a. | T 4 |
| F 5 | 10 38 32 | 11°38'14 | 20°16 | 14°13 | 16°50 | 14°44 | 9°36 | 15°35 | 17°10 | 24° 2 | 19°30 | 22°23 | 23°14 | 13°31 | n.a. | F 5 |
| S 6 | 10 42 29 | 12°37'12 | 4♏12 | 15° 3 | 18° 4 | 15°20 | 9°50 | 15°32 | 17°13 | 24° 3 | 19°30 | 22°24 | 23°11 | 13°37 | n.a. | S 6 |
| S 7 | 10 46 25 | 13°36'09 | 17°41 | 15°56 | 19°18 | 15°56 | 10° 3 | 15°28 | 17°16 | 24° 4 | 19°31 | 22°25 | 23° 8 | 13°44 | n.a. | S 7 |
| M 8 | 10 50 22 | 14°35'04 | 0♐44 | 16°53 | 20°32 | 16°32 | 10°16 | 15°25 | 17°19 | 24° 5 | 19°32 | 22°25 | 23° 5 | 13°51 | n.a. | M 8 |
| T 9 | 10 54 18 | 15°33'57 | 13°25 | 17°52 | 21°47 | 17° 7 | 10°29 | 15°21 | 17°22 | 24° 6 | 19°32 | 22°R26 | 23° 2 | 13°57 | n.a. | T 9 |
| W10 | 10 58 15 | 16°32'49 | 25°47 | 18°54 | 23° 1 | 17°43 | 10°42 | 15°18 | 17°25 | 24° 7 | 19°33 | 22°26 | 22°58 | 14° 4 | n.a. | W10 |
| T 11 | 11 2 11 | 17°31'38 | 7♑54 | 19°59 | 24°15 | 18°19 | 10°55 | 15°14 | 17°28 | 24° 8 | 19°34 | 22°25 | 22°55 | 14°11 | n.a. | T 11 |
| F 12 | 11 6 8 | 18°30'26 | 19°50 | 21° 6 | 25°29 | 18°55 | 11° 8 | 15°10 | 17°31 | 24°10 | 19°35 | 22°25 | 22°52 | 14°17 | n.a. | F 12 |
| S 13 | 11 10 4 | 19°29'12 | 1♒41 | 22°16 | 26°43 | 19°31 | 11°21 | 15° 6 | 17°34 | 24°11 | 19°35 | 22°24 | 22°49 | 14°24 | n.a. | S 13 |
| S 14 | 11 14 1 | 20°27'55 | 13°30 | 23°27 | 27°58 | 20° 7 | 11°34 | 15° 3 | 17°37 | 24°12 | 19°36 | 22°24 | 22°46 | 14°31 | n.a. | S 14 |
| M15 | 11 17 58 | 21°26'37 | 25°19 | 24°42 | 29°12 | 20°43 | 11°46 | 14°59 | 17°40 | 24°13 | 19°37 | 22°24 | 22°43 | 14°37 | n.a. | M15 |
| T 16 | 11 21 54 | 22°25'17 | 7♓13 | 25°58 | 0♈26 | 21°19 | 11°59 | 14°55 | 17°44 | 24°14 | 19°38 | 22°D24 | 22°39 | 14°44 | n.a. | T 16 |
| W17 | 11 25 51 | 23°23'55 | 19°12 | 27°16 | 1°40 | 21°55 | 12°11 | 14°51 | 17°47 | 24°16 | 19°38 | 22°R24 | 22°36 | 14°51 | n.a. | W17 |
| T 18 | 11 29 47 | 24°22'31 | 1♈21 | 28°36 | 2°54 | 22°31 | 12°24 | 14°47 | 17°50 | 24°17 | 19°39 | 22°24 | 22°33 | 14°57 | n.a. | T 18 |
| F 19 | 11 33 44 | 25°21'05 | 13°39 | 29°59 | 4° 8 | 23° 7 | 12°36 | 14°43 | 17°53 | 24°18 | 19°40 | 22°24 | 22°30 | 15° 4 | n.a. | F 19 |
| S 20 | 11 37 40 | 26°19'37 | 26° 8 | 1♓23 | 5°22 | 23°43 | 12°49 | 14°39 | 17°57 | 24°20 | 19°41 | 22°23 | 22°27 | 15°11 | n.a. | S 20 |
| S 21 | 11 41 37 | 27°18'06 | 8♉51 | 2°49 | 6°36 | 24°19 | 13° 1 | 14°34 | 18° 0 | 24°21 | 19°42 | 22°23 | 22°23 | 15°17 | n.a. | S 21 |
| M22 | 11 45 33 | 28°16'34 | 21°48 | 4°17 | 7°50 | 24°55 | 13°13 | 14°30 | 18° 3 | 24°22 | 19°43 | 22°22 | 22°20 | 15°24 | n.a. | M22 |
| T 23 | 11 49 30 | 29°14'59 | 5♊ 0 | 5°47 | 9° 4 | 25°32 | 13°25 | 14°26 | 18° 6 | 24°24 | 19°44 | 22°21 | 22°17 | 15°31 | n.a. | T 23 |
| W24 | 11 53 26 | 0♈13'23 | 18°30 | 7°18 | 10°18 | 26° 8 | 13°37 | 14°22 | 18°10 | 24°25 | 19°45 | 22°21 | 22°14 | 15°38 | n.a. | W24 |
| T 25 | 11 57 23 | 1°11'44 | 2♋16 | 8°51 | 11°32 | 26°44 | 13°49 | 14°17 | 18°13 | 24°27 | 19°46 | 22°D21 | 22°11 | 15°44 | n.a. | T 25 |
| F 26 | 12 1 20 | 2°10'02 | 16°20 | 10°27 | 12°46 | 27°20 | 14° 1 | 14°13 | 18°16 | 24°28 | 19°47 | 22°21 | 22° 8 | 15°51 | n.a. | F 26 |
| S 27 | 12 5 16 | 3° 8'19 | 0♌40 | 12° 3 | 14° 0 | 27°56 | 14°13 | 14° 9 | 18°20 | 24°30 | 19°48 | 22°22 | 22° 4 | 15°58 | n.a. | S 27 |
| S 28 | 12 9 13 | 4° 6'33 | 15°13 | 13°42 | 15°14 | 28°33 | 14°25 | 14° 4 | 18°23 | 24°31 | 19°49 | 22°23 | 22° 1 | 16° 4 | n.a. | S 28 |
| M29 | 12 13 9 | 5° 4'46 | 29°56 | 15°22 | 16°28 | 29° 9 | 14°36 | 14° 0 | 18°27 | 24°33 | 19°50 | 22°23 | 21°58 | 16°11 | n.a. | M29 |
| T 30 | 12 17 6 | 6° 2'56 | 14♍42 | 17° 5 | 17°42 | 29°45 | 14°48 | 13°56 | 18°30 | 24°34 | 19°51 | 22°24 | 21°55 | 16°18 | n.a. | T 30 |
| W31 | 12 21 2 | 7♈ 1'04 | 29♍25 | 18♓49 | 18♈55 | 0♊21 | 14♒59 | 13♎51 | 18♈33 | 24♉36 | 19♉52 | 22°R24 | 21♓52 | 16♒24 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| M 1 | 8s47 | 17n15 | 2n45 | 17s40 | 0s 8 | 8s26 | 1s21 | 16n49 | 1n10 | 19s 6 | 0s50 | 3s44 | 2n46 | 6n15 | 0s31 | 17n28 | 1s33 | 8n55 | 9s13 | 3s 3 | 2s38 | 20s17 | | | n.a. |
| T 2 | 8 24 | 10 43 | 1 29 | 17 41 | 0 20 | 7 56 | 1 20 | 17 0 | 1 10 | 19 2 | 0 51 | 3 43 | 2 46 | 6 16 | 0 31 | 17 28 | 1 33 | 8 55 | 9 13 | 3 3 | 2 39 | 20 14 | | | n.a. |
| W 3 | 8 2 | 3 38 | 0 7 | 17 41 | 0 31 | 7 26 | 1 19 | 17 12 | 1 10 | 18 59 | 0 51 | 3 41 | 2 46 | 6 18 | 0 31 | 17 29 | 1 33 | 8 55 | 9 13 | 3 4 | 2 40 | 20 11 | | | n.a. |
| T 4 | 7 39 | 3s30 | 1s14 | 17 39 | 0 42 | 6 56 | 1 18 | 17 23 | 1 10 | 18 55 | 0 51 | 3 40 | 2 47 | 6 19 | 0 31 | 17 29 | 1 33 | 8 56 | 9 12 | 3 4 | 2 42 | 20 9 | | | n.a. |
| F 5 | 7 17 | 10 18 | 2 29 | 17 35 | 0 53 | 6 26 | 1 17 | 17 34 | 1 11 | 18 52 | 0 51 | 3 38 | 2 47 | 6 20 | 0 31 | 17 29 | 1 33 | 8 56 | 9 12 | 3 3 | 2 43 | 20 6 | | | n.a. |
| S 6 | 6 54 | 16 22 | 3 32 | 17 30 | 1 3 | 5 56 | 1 16 | 17 45 | 1 11 | 18 48 | 0 51 | 3 37 | 2 47 | 6 21 | 0 31 | 17 30 | 1 33 | 8 57 | 9 12 | 3 3 | 2 44 | 20 4 | | | n.a. |
| S 7 | 6 31 | 21 28 | 4 21 | 17 23 | 1 12 | 5 25 | 1 15 | 17 55 | 1 11 | 18 45 | 0 51 | 3 36 | 2 47 | 6 22 | 0 31 | 17 30 | 1 33 | 8 57 | 9 12 | 3 3 | 2 45 | 20 1 | | | n.a. |
| M 8 | 6 8 | 25 20 | 4 55 | 17 14 | 1 21 | 4 55 | 1 14 | 18 6 | 1 11 | 18 41 | 0 51 | 3 34 | 2 47 | 6 23 | 0 31 | 17 30 | 1 33 | 8 57 | 9 11 | 3 2 | 2 47 | 19 58 | | | n.a. |
| T 9 | 5 45 | 27 51 | 5 13 | 17 4 | 1 29 | 4 24 | 1 12 | 18 17 | 1 12 | 18 38 | 0 52 | 3 33 | 2 47 | 6 25 | 0 31 | 17 30 | 1 33 | 8 58 | 9 11 | 3 2 | 2 48 | 19 56 | | | n.a. |
| W10 | 5 22 | 28 55 | 5 17 | 16 52 | 1 37 | 3 53 | 1 11 | 18 27 | 1 12 | 18 35 | 0 52 | 3 31 | 2 47 | 6 26 | 0 31 | 17 31 | 1 33 | 8 58 | 9 11 | 3 2 | 2 49 | 19 53 | | | n.a. |
| T 11 | 4 59 | 28 33 | 5 6 | 16 38 | 1 45 | 3 22 | 1 10 | 18 38 | 1 12 | 18 31 | 0 52 | 3 29 | 2 48 | 6 27 | 0 31 | 17 31 | 1 33 | 8 59 | 9 11 | 3 2 | 2 50 | 19 50 | | | n.a. |
| F 12 | 4 36 | 26 52 | 4 42 | 16 23 | 1 51 | 2 51 | 1 8 | 18 48 | 1 12 | 18 28 | 0 52 | 3 28 | 2 48 | 6 28 | 0 31 | 17 31 | 1 33 | 8 59 | 9 11 | 3 3 | 2 52 | 19 48 | | | n.a. |
| S 13 | 4 12 | 24 0 | 4 6 | 16 6 | 1 58 | 2 20 | 1 7 | 18 58 | 1 12 | 18 24 | 0 52 | 3 26 | 2 48 | 6 29 | 0 31 | 17 32 | 1 33 | 8 59 | 9 10 | 3 3 | 2 53 | 19 45 | | | n.a. |
| S 14 | 3 49 | 20 8 | 3 20 | 15 47 | 2 3 | 1 49 | 1 6 | 19 8 | 1 13 | 18 21 | 0 52 | 3 25 | 2 48 | 6 31 | 0 31 | 17 32 | 1 33 | 9 0 | 9 10 | 3 3 | 2 54 | 19 42 | | | n.a. |
| M15 | 3 26 | 15 30 | 2 25 | 15 27 | 2 8 | 1 18 | 1 4 | 19 18 | 1 13 | 18 17 | 0 53 | 3 23 | 2 48 | 6 32 | 0 31 | 17 32 | 1 33 | 9 0 | 9 10 | 3 3 | 2 55 | 19 40 | | | n.a. |
| T 16 | 3 2 | 10 15 | 1 23 | 15 5 | 2 13 | 0 47 | 1 2 | 19 28 | 1 13 | 18 14 | 0 53 | 3 21 | 2 48 | 6 33 | 0 31 | 17 33 | 1 33 | 9 1 | 9 10 | 3 3 | 2 57 | 19 37 | | | n.a. |
| W17 | 2 39 | 4 35 | 0 18 | 14 42 | 2 17 | 0 15 | 1 1 | 19 38 | 1 13 | 18 11 | 0 53 | 3 20 | 2 48 | 6 34 | 0 31 | 17 33 | 1 33 | 9 1 | 9 9 | 3 3 | 2 58 | 19 34 | | | n.a. |
| T 18 | 2 16 | 1n18 | 0n49 | 14 17 | 2 21 | 0n16 | 0 59 | 19 47 | 1 13 | 18 7 | 0 53 | 3 18 | 2 48 | 6 36 | 0 31 | 17 34 | 1 32 | 9 1 | 9 9 | 3 3 | 2 59 | 19 32 | | | n.a. |
| F 19 | 1 52 | 7 13 | 1 55 | 13 51 | 2 24 | 0 47 | 0 57 | 19 57 | 1 14 | 18 4 | 0 53 | 3 16 | 2 49 | 6 37 | 0 31 | 17 34 | 1 32 | 9 2 | 9 9 | 3 3 | 3 1 | 19 29 | | | n.a. |
| S 20 | 1 29 | 12 56 | 2 57 | 13 23 | 2 26 | 1 19 | 0 56 | 20 6 | 1 14 | 18 0 | 0 53 | 3 15 | 2 49 | 6 38 | 0 31 | 17 34 | 1 32 | 9 2 | 9 9 | 3 3 | 3 2 | 19 26 | | | n.a. |
| S 21 | 1 5 | 18 14 | 3 50 | 12 53 | 2 28 | 1 50 | 0 54 | 20 15 | 1 14 | 17 57 | 0 54 | 3 13 | 2 49 | 6 40 | 0 31 | 17 35 | 1 32 | 9 3 | 9 9 | 3 3 | 3 3 | 19 24 | | | n.a. |
| M22 | 0 42 | 22 49 | 4 33 | 12 22 | 2 30 | 2 21 | 0 52 | 20 25 | 1 14 | 17 54 | 0 54 | 3 11 | 2 49 | 6 41 | 0 31 | 17 35 | 1 32 | 9 3 | 9 8 | 3 4 | 3 4 | 19 21 | | | n.a. |
| T 23 | 0 18 | 26 20 | 5 3 | 11 50 | 2 31 | 2 52 | 0 50 | 20 34 | 1 14 | 17 50 | 0 54 | 3 10 | 2 49 | 6 42 | 0 31 | 17 35 | 1 32 | 9 4 | 9 8 | 3 4 | 3 6 | 19 18 | | | n.a. |
| W24 | 0n 5 | 28 27 | 5 16 | 11 15 | 2 31 | 3 23 | 0 48 | 20 42 | 1 14 | 17 47 | 0 54 | 3 8 | 2 49 | 6 43 | 0 31 | 17 36 | 1 32 | 9 4 | 9 8 | 3 4 | 3 7 | 19 16 | | | n.a. |
| T 25 | 0 29 | 28 54 | 5 12 | 10 40 | 2 31 | 3 54 | 0 46 | 20 51 | 1 15 | 17 44 | 0 54 | 3 6 | 2 49 | 6 45 | 0 31 | 17 36 | 1 32 | 9 5 | 9 8 | 3 4 | 3 8 | 19 13 | | | n.a. |
| F 26 | 0 52 | 27 29 | 4 50 | 10 3 | 2 30 | 4 25 | 0 44 | 21 0 | 1 15 | 17 40 | 0 55 | 3 4 | 2 49 | 6 46 | 0 31 | 17 37 | 1 32 | 9 5 | 9 8 | 3 4 | 3 9 | 19 10 | | | n.a. |
| S 27 | 1 16 | 24 17 | 4 9 | 9 24 | 2 29 | 4 56 | 0 42 | 21 8 | 1 15 | 17 37 | 0 55 | 3 3 | 2 49 | 6 47 | 0 31 | 17 37 | 1 32 | 9 5 | 9 8 | 3 4 | 3 11 | 19 8 | | | n.a. |
| S 28 | 1 39 | 19 30 | 3 12 | 8 44 | 2 27 | 5 27 | 0 40 | 21 17 | 1 15 | 17 34 | 0 55 | 3 1 | 2 49 | 6 49 | 0 31 | 17 38 | 1 32 | 9 6 | 9 7 | 3 3 | 3 12 | 19 5 | | | n.a. |
| M29 | 2 2 | 13 31 | 2 1 | 8 3 | 2 25 | 5 58 | 0 38 | 21 25 | 1 15 | 17 31 | 0 55 | 2 59 | 2 49 | 6 50 | 0 31 | 17 38 | 1 32 | 9 6 | 9 7 | 3 3 | 3 13 | 19 2 | | | n.a. |
| T 30 | 2 26 | 6 44 | 0 43 | 7 20 | 2 22 | 6 28 | 0 35 | 21 33 | 1 15 | 17 27 | 0 55 | 2 57 | 2 49 | 6 51 | 0 31 | 17 38 | 1 32 | 9 7 | 9 7 | 3 3 | 3 14 | 18 59 | | | n.a. |
| W31 | 2n49 | 0s22 | 0s39 | 6s36 | 2s18 | 6n59 | 0s33 | 21n41 | 1n15 | 17s24 | 0s56 | 2s56 | 2n49 | 6n53 | 0s31 | 17n39 | 1s32 | 9n 7 | 9s 7 | 3s 3 | 3s16 | 18s57 | | | n.a. |

Julian Day Number = 1692627.5, Delta T = 03h09m41s
Ecliptic obliquity = 23°42'26, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°09'11, Lahiri = - 5°02'10 Julian Calendar 1 March 79 BCE == Greg. Calendar 27 Feb. 079 BCE

The year -78 astronomical counting style corresponds to year 079 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 79 BCE
# geocentric

## APRIL 79 BCE (-78) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 24 59 | 7♈59'10 | 13♎58 | 20♓34 | 20♈ 9 | 0♊58 | 15♒11 | 13°R47 | 18♈37 | 24♉38 | 19♉53 | 22°R23 | 21♓49 | 16♒31 | n.a. | T 1 |
| F 2 | 12 28 55 | 8°57'14 | 28°15 | 22°22 | 21°23 | 1°34 | 15°22 | 13♎42 | 18°40 | 24°39 | 19°54 | 22♓22 | 21°45 | 16°38 | n.a. | F 2 |
| S 3 | 12 32 52 | 9°55'17 | 12♏11 | 24°11 | 22°37 | 2°10 | 15°33 | 13°38 | 18°44 | 24°41 | 19°55 | 22°20 | 21°42 | 16°44 | n.a. | S 3 |
| S 4 | 12 36 49 | 10°53'19 | 25°43 | 26° 2 | 23°50 | 2°47 | 15°44 | 13°33 | 18°47 | 24°43 | 19°56 | 22°17 | 21°39 | 16°51 | n.a. | S 4 |
| M 5 | 12 40 45 | 11°51'18 | 8♐51 | 27°55 | 25° 4 | 3°23 | 15°55 | 13°29 | 18°51 | 24°44 | 19°57 | 22°15 | 21°36 | 16°58 | n.a. | M 5 |
| T 6 | 12 44 42 | 12°49'17 | 21°37 | 29°50 | 26°18 | 4° 0 | 16° 6 | 13°24 | 18°54 | 24°46 | 19°59 | 22°12 | 21°33 | 17° 4 | n.a. | T 6 |
| W 7 | 12 48 38 | 13°47'14 | 4♑ 2 | 1♈46 | 27°31 | 4°36 | 16°17 | 13°20 | 18°57 | 24°48 | 20° 0 | 22°11 | 21°29 | 17°11 | n.a. | W 7 |
| T 8 | 12 52 35 | 14°45'09 | 16°11 | 3°44 | 28°45 | 5°12 | 16°28 | 13°15 | 19° 1 | 24°50 | 20° 1 | 22°D11 | 21°26 | 17°18 | n.a. | T 8 |
| F 9 | 12 56 31 | 15°43'04 | 28° 9 | 5°44 | 29°59 | 5°49 | 16°38 | 13°11 | 19° 4 | 24°52 | 20° 2 | 22°11 | 21°23 | 17°24 | n.a. | F 9 |
| S 10 | 13 0 28 | 16°40'56 | 10♒ 0 | 7°45 | 1♉12 | 6°25 | 16°49 | 13° 6 | 19° 8 | 24°53 | 20° 3 | 22°13 | 21°20 | 17°31 | n.a. | S 10 |
| S 11 | 13 4 24 | 17°38'48 | 21°48 | 9°49 | 2°26 | 7° 2 | 16°59 | 13° 2 | 19°11 | 24°55 | 20° 4 | 22°14 | 21°17 | 17°38 | n.a. | S 11 |
| M12 | 13 8 21 | 18°36'37 | 3♓40 | 11°53 | 3°39 | 7°38 | 17° 9 | 12°57 | 19°15 | 24°57 | 20° 6 | 22°16 | 21°14 | 17°44 | n.a. | M12 |
| T 13 | 13 12 18 | 19°34'26 | 15°38 | 13°59 | 4°53 | 8°15 | 17°20 | 12°53 | 19°18 | 24°59 | 20° 7 | 22°17 | 21°10 | 17°51 | n.a. | T 13 |
| W14 | 13 16 14 | 20°32'13 | 27°46 | 16° 7 | 6° 6 | 8°51 | 17°30 | 12°48 | 19°22 | 25° 1 | 20° 8 | 22°R17 | 21° 7 | 17°58 | n.a. | W14 |
| T 15 | 13 20 11 | 21°29'59 | 10♈ 6 | 18°15 | 7°20 | 9°28 | 17°40 | 12°44 | 19°25 | 25° 3 | 20° 9 | 22°16 | 21° 4 | 18° 4 | n.a. | T 15 |
| F 16 | 13 24 7 | 22°27'43 | 22°41 | 20°25 | 8°33 | 10° 4 | 17°49 | 12°40 | 19°29 | 25° 5 | 20°11 | 22°13 | 21° 1 | 18°11 | n.a. | F 16 |
| S 17 | 13 28 4 | 23°25'26 | 5♉30 | 22°35 | 9°47 | 10°41 | 17°59 | 12°35 | 19°32 | 25° 7 | 20°12 | 22° 9 | 20°58 | 18°18 | n.a. | S 17 |
| S 18 | 13 32 0 | 24°23'07 | 18°35 | 24°46 | 11° 0 | 11°17 | 18° 9 | 12°31 | 19°36 | 25° 9 | 20°13 | 22° 4 | 20°55 | 18°24 | n.a. | S 18 |
| M19 | 13 35 57 | 25°20'47 | 1♊53 | 26°57 | 12°14 | 11°54 | 18°18 | 12°27 | 19°39 | 25°11 | 20°14 | 21°59 | 20°51 | 18°31 | n.a. | M19 |
| T 20 | 13 39 53 | 26°18'26 | 15°25 | 29° 8 | 13°27 | 12°31 | 18°28 | 12°22 | 19°42 | 25°13 | 20°16 | 21°54 | 20°48 | 18°38 | n.a. | T 20 |
| W21 | 13 43 50 | 27°16'03 | 29° 8 | 1♉19 | 14°40 | 13° 7 | 18°37 | 12°18 | 19°46 | 25°15 | 20°17 | 21°50 | 20°45 | 18°44 | n.a. | W21 |
| T 22 | 13 47 47 | 28°13'38 | 13♋ 2 | 3°29 | 15°54 | 13°44 | 18°46 | 12°14 | 19°49 | 25°17 | 20°18 | 21°47 | 20°42 | 18°51 | n.a. | T 22 |
| F 23 | 13 51 43 | 29°11'12 | 27° 4 | 5°39 | 17° 7 | 14°21 | 18°55 | 12° 9 | 19°53 | 25°19 | 20°20 | 21°D47 | 20°39 | 18°58 | n.a. | F 23 |
| S 24 | 13 55 40 | 0♉ 8'44 | 11♌14 | 7°47 | 18°20 | 14°57 | 19° 4 | 12° 5 | 19°56 | 25°21 | 20°21 | 21°47 | 20°35 | 19° 4 | n.a. | S 24 |
| S 25 | 13 59 36 | 1° 6'14 | 25°30 | 9°54 | 19°34 | 15°34 | 19°13 | 12° 1 | 20° 0 | 25°23 | 20°22 | 21°48 | 20°32 | 19°11 | n.a. | S 25 |
| M26 | 14 3 33 | 2° 3'43 | 9♍49 | 12° 0 | 20°47 | 16°11 | 19°21 | 11°57 | 20° 3 | 25°25 | 20°24 | 21°49 | 20°29 | 19°18 | n.a. | M26 |
| T 27 | 14 7 29 | 3° 1'11 | 24° 9 | 14° 4 | 22° 0 | 16°47 | 19°30 | 11°53 | 20° 6 | 25°27 | 20°25 | 21°R50 | 20°26 | 19°24 | n.a. | T 27 |
| W28 | 14 11 26 | 3°58'37 | 8♎27 | 16° 6 | 23°13 | 17°24 | 19°38 | 11°49 | 20°10 | 25°29 | 20°26 | 21°49 | 20°23 | 19°31 | n.a. | W28 |
| T 29 | 14 15 22 | 4°56'02 | 22°38 | 18° 5 | 24°26 | 18° 1 | 19°46 | 11°45 | 20°13 | 25°31 | 20°28 | 21°46 | 20°20 | 19°38 | n.a. | T 29 |
| F 30 | 14 19 19 | 5♉53'25 | 6♏37 | 20♉ 3 | 25♉40 | 18♊37 | 19♒54 | 11♎41 | 20♈17 | 25♉33 | 20♉29 | 21♓41 | 20♓16 | 19♒44 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3n12 | 7s21 | 1s57 | 5s50 | 2s14 | 7n29 | 0s31 | 21n49 | 1n16 | 17s21 | 0s56 | 2s54 | 2n49 | 6n54 | 0s31 | 17n39 | 1s32 | 9n 8 | 9s 7 | 3s 3 | 3s17 | 18s54 | | n.a. |
| F 2 | 3 35 | 13 51 | 3 5 | 5 3 | 2 10 | 7 59 | 0 29 | 21 56 | 1 16 | 17 18 | 0 56 | 2 52 | 2 49 | 6 55 | 0 31 | 17 40 | 1 32 | 9 8 | 9 6 | 3 4 | 3 18 | 18 51 | | n.a. |
| S 3 | 3 58 | 19 29 | 4 2 | 4 15 | 2 5 | 8 29 | 0 26 | 22 4 | 1 16 | 17 15 | 0 56 | 2 50 | 2 49 | 6 57 | 0 31 | 17 40 | 1 32 | 9 9 | 9 6 | 3 5 | 3 20 | 18 48 | | n.a. |
| S 4 | 4 21 | 23 58 | 4 42 | 3 25 | 1 59 | 8 59 | 0 24 | 22 11 | 1 16 | 17 12 | 0 56 | 2 49 | 2 49 | 6 58 | 0 31 | 17 41 | 1 32 | 9 9 | 9 6 | 3 6 | 3 21 | 18 46 | | n.a. |
| M 5 | 4 44 | 27 4 | 5 7 | 2 34 | 1 53 | 9 28 | 0 22 | 22 19 | 1 16 | 17 8 | 0 57 | 2 47 | 2 49 | 6 59 | 0 31 | 17 41 | 1 32 | 9 9 | 9 6 | 3 7 | 3 22 | 18 43 | | n.a. |
| T 6 | 5 7 | 28 41 | 5 15 | 1 42 | 1 47 | 9 58 | 0 19 | 22 26 | 1 16 | 17 5 | 0 57 | 2 45 | 2 49 | 7 1 | 0 31 | 17 42 | 1 32 | 9 10 | 9 6 | 3 7 | 3 23 | 18 40 | | n.a. |
| W 7 | 5 30 | 28 47 | 5 9 | 0 49 | 1 40 | 10 27 | 0 17 | 22 33 | 1 16 | 17 2 | 0 57 | 2 43 | 2 49 | 7 2 | 0 31 | 17 42 | 1 32 | 9 10 | 9 6 | 3 8 | 3 25 | 18 37 | | n.a. |
| T 8 | 5 53 | 27 29 | 4 48 | 0n 6 | 1 32 | 10 55 | 0 15 | 22 39 | 1 16 | 16 59 | 0 57 | 2 42 | 2 49 | 7 3 | 0 31 | 17 43 | 1 31 | 9 11 | 9 5 | 3 8 | 3 26 | 18 35 | | n.a. |
| F 9 | 6 15 | 24 56 | 4 15 | 1 1 | 1 24 | 11 24 | 0 12 | 22 46 | 1 16 | 16 56 | 0 57 | 2 40 | 2 49 | 7 5 | 0 31 | 17 43 | 1 31 | 9 11 | 9 5 | 3 8 | 3 27 | 18 32 | | n.a. |
| S 10 | 6 38 | 21 20 | 3 32 | 1 57 | 1 15 | 11 52 | 0 10 | 22 53 | 1 16 | 16 53 | 0 58 | 2 38 | 2 49 | 7 6 | 0 31 | 17 43 | 1 31 | 9 12 | 9 5 | 3 7 | 3 28 | 18 29 | | n.a. |
| S 11 | 7 0 | 16 55 | 2 40 | 2 55 | 1 7 | 12 20 | 0 7 | 22 59 | 1 17 | 16 50 | 0 58 | 2 36 | 2 49 | 7 7 | 0 31 | 17 44 | 1 31 | 9 12 | 9 5 | 3 7 | 3 30 | 18 26 | | n.a. |
| M12 | 7 22 | 11 50 | 1 41 | 3 52 | 0 57 | 12 48 | 0 5 | 23 5 | 1 17 | 16 47 | 0 58 | 2 35 | 2 49 | 7 9 | 0 31 | 17 44 | 1 31 | 9 13 | 9 5 | 3 6 | 3 31 | 18 23 | | n.a. |
| T 13 | 7 44 | 6 17 | 0 36 | 4 51 | 0 48 | 13 15 | 0 2 | 23 11 | 1 17 | 16 44 | 0 58 | 2 33 | 2 49 | 7 10 | 0 31 | 17 45 | 1 31 | 9 13 | 9 5 | 3 6 | 3 32 | 18 21 | | n.a. |
| W14 | 8 7 | 0 26 | 0n30 | 5 50 | 0 38 | 13 43 | 0n 0 | 23 17 | 1 17 | 16 41 | 0 59 | 2 31 | 2 49 | 7 11 | 0 31 | 17 45 | 1 31 | 9 14 | 9 5 | 3 6 | 3 33 | 18 18 | | n.a. |
| T 15 | 8 28 | 5n31 | 1 36 | 6 49 | 0 28 | 14 9 | 0 3 | 23 23 | 1 17 | 16 39 | 0 59 | 2 30 | 2 49 | 7 12 | 0 31 | 17 46 | 1 31 | 9 14 | 9 4 | 3 6 | 3 35 | 18 15 | | n.a. |
| F 16 | 8 50 | 11 22 | 2 39 | 7 48 | 0 17 | 14 36 | 0 5 | 23 29 | 1 17 | 16 36 | 0 59 | 2 28 | 2 49 | 7 14 | 0 31 | 17 46 | 1 31 | 9 14 | 9 4 | 3 7 | 3 36 | 18 12 | | n.a. |
| S 17 | 9 12 | 16 52 | 3 35 | 8 47 | 0 7 | 15 2 | 0 8 | 23 34 | 1 17 | 16 33 | 0 59 | 2 26 | 2 49 | 7 15 | 0 31 | 17 47 | 1 31 | 9 15 | 9 4 | 3 9 | 3 37 | 18 9 | | n.a. |
| S 18 | 9 33 | 21 42 | 4 20 | 9 45 | 0n 4 | 15 28 | 0 10 | 23 39 | 1 17 | 16 30 | 1 0 | 2 25 | 2 49 | 7 16 | 0 31 | 17 47 | 1 31 | 9 15 | 9 4 | 3 11 | 3 39 | 18 7 | | n.a. |
| M19 | 9 55 | 25 33 | 4 53 | 10 43 | 0 14 | 15 53 | 0 13 | 23 44 | 1 17 | 16 28 | 1 0 | 2 23 | 2 49 | 7 18 | 0 31 | 17 48 | 1 31 | 9 16 | 9 4 | 3 13 | 3 40 | 18 4 | | n.a. |
| T 20 | 10 16 | 28 1 | 5 9 | 11 41 | 0 25 | 16 18 | 0 15 | 23 49 | 1 17 | 16 25 | 1 0 | 2 21 | 2 49 | 7 19 | 0 31 | 17 48 | 1 31 | 9 16 | 9 4 | 3 15 | 3 41 | 18 1 | | n.a. |
| W21 | 10 37 | 28 51 | 5 9 | 12 37 | 0 35 | 16 42 | 0 18 | 23 54 | 1 17 | 16 22 | 1 0 | 2 20 | 2 49 | 7 20 | 0 31 | 17 49 | 1 31 | 9 17 | 9 4 | 3 16 | 3 42 | 17 58 | | n.a. |
| T 22 | 10 58 | 27 53 | 4 50 | 13 32 | 0 45 | 17 6 | 0 20 | 23 59 | 1 17 | 16 19 | 1 1 | 2 18 | 2 49 | 7 22 | 0 31 | 17 50 | 1 31 | 9 17 | 9 4 | 3 17 | 3 44 | 17 55 | | n.a. |
| F 23 | 11 18 | 25 8 | 4 14 | 14 25 | 0 55 | 17 30 | 0 23 | 24 3 | 1 17 | 16 17 | 1 1 | 2 17 | 2 48 | 7 23 | 0 31 | 17 50 | 1 31 | 9 18 | 9 3 | 3 18 | 3 45 | 17 53 | | n.a. |
| S 24 | 11 39 | 20 51 | 3 23 | 15 17 | 1 5 | 17 53 | 0 26 | 24 8 | 1 17 | 16 14 | 1 1 | 2 15 | 2 48 | 7 24 | 0 31 | 17 51 | 1 31 | 9 18 | 9 3 | 3 18 | 3 46 | 17 50 | | n.a. |
| S 25 | 11 59 | 15 20 | 2 18 | 16 7 | 1 14 | 18 16 | 0 28 | 24 12 | 1 17 | 16 12 | 1 1 | 2 14 | 2 48 | 7 26 | 0 31 | 17 51 | 1 31 | 9 18 | 9 3 | 3 17 | 3 47 | 17 47 | | n.a. |
| M26 | 12 19 | 8 58 | 1 5 | 16 55 | 1 23 | 18 38 | 0 31 | 24 16 | 1 17 | 16 9 | 1 2 | 2 12 | 2 48 | 7 27 | 0 31 | 17 52 | 1 31 | 9 19 | 9 3 | 3 17 | 3 49 | 17 44 | | n.a. |
| T 27 | 12 39 | 2 9 | 0s13 | 17 41 | 1 31 | 19 0 | 0 33 | 24 19 | 1 17 | 16 7 | 1 2 | 2 11 | 2 48 | 7 28 | 0 31 | 17 52 | 1 31 | 9 19 | 9 3 | 3 17 | 3 50 | 17 41 | | n.a. |
| W28 | 12 59 | 4s45 | 1 29 | 18 24 | 1 38 | 19 21 | 0 35 | 24 23 | 1 17 | 16 4 | 1 2 | 2 9 | 2 48 | 7 30 | 0 31 | 17 53 | 1 31 | 9 20 | 9 3 | 3 17 | 3 51 | 17 38 | | n.a. |
| T 29 | 13 19 | 11 21 | 2 39 | 19 5 | 1 45 | 19 42 | 0 38 | 24 27 | 1 17 | 16 2 | 1 2 | 2 8 | 2 48 | 7 31 | 0 31 | 17 53 | 1 31 | 9 20 | 9 3 | 3 18 | 3 52 | 17 35 | | n.a. |
| F 30 | 13n38 | 17s18 | 3s38 | 19n44 | 1n51 | 20n 3 | 0n40 | 24n30 | 1n17 | 16s 0 | 1s 3 | 2s 6 | 2n48 | 7n32 | 0s31 | 17n54 | 1s31 | 9n21 | 9s 3 | 3s20 | 3s54 | 17s33 | | n.a. |

Julian Day Number = 1692658.5, Delta T = 03h09m40s
Ecliptic obliquity = 23°42'26, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°09'06, Lahiri = - 5°02'06 Julian Calendar 1 Apr. 79 BCE == Greg. Calendar 30 March 079 BCE

The year -78 astronomical counting style corresponds to year 079 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 79 BCE
# geocentric

## MAY 79 BCE (-78) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 14 23 16 | 6♉50'48 | 20♏20 | 21♉58 | 26♉53 | 19♊14 | 20♒ 2 | 11°R37 | 20♈20 | 25♉35 | 20♉30 | 21°R34 | 20♓13 | 19♒51 | n.a. | S 1 |
| S 2 | 14 27 12 | 7°48'10 | 3♐45 | 23°50 | 28° 6 | 19°51 | 20°10 | 11♎34 | 20°23 | 25°38 | 20°32 | 21♓26 | 20°10 | 19°58 | n.a. | S 2 |
| M 3 | 14 31 9 | 8°45'31 | 16°50 | 25°40 | 29°19 | 20°28 | 20°18 | 11°30 | 20°27 | 25°40 | 20°33 | 21°19 | 20° 7 | 20° 4 | n.a. | M 3 |
| T 4 | 14 35 5 | 9°42'51 | 29°34 | 27°28 | 0♊32 | 21° 5 | 20°25 | 11°26 | 20°30 | 25°42 | 20°34 | 21°12 | 20° 4 | 20°11 | n.a. | T 4 |
| W 5 | 14 39 2 | 10°40'10 | 12♑ 0 | 29°12 | 1°45 | 21°41 | 20°33 | 11°22 | 20°33 | 25°44 | 20°36 | 21° 6 | 20° 1 | 20°18 | n.a. | W 5 |
| T 6 | 14 42 58 | 11°37'29 | 24° 9 | 0♊54 | 2°58 | 22°18 | 20°40 | 11°19 | 20°37 | 25°46 | 20°37 | 21° 3 | 19°57 | 20°24 | n.a. | T 6 |
| F 7 | 14 46 55 | 12°34'47 | 6♒ 8 | 2°34 | 4°11 | 22°55 | 20°47 | 11°15 | 20°40 | 25°48 | 20°39 | 21° 1 | 19°54 | 20°31 | n.a. | F 7 |
| S 8 | 14 50 51 | 13°32'04 | 17°59 | 4°10 | 5°24 | 23°32 | 20°54 | 11°12 | 20°43 | 25°51 | 20°40 | 21°D 1 | 19°51 | 20°38 | n.a. | S 8 |
| S 9 | 14 54 48 | 14°29'21 | 29°48 | 5°44 | 6°37 | 24° 9 | 21° 1 | 11° 9 | 20°46 | 25°53 | 20°41 | 21° 1 | 19°48 | 20°44 | n.a. | S 9 |
| M10 | 14 58 45 | 15°26'37 | 11♓41 | 7°15 | 7°50 | 24°46 | 21° 7 | 11° 5 | 20°50 | 25°55 | 20°43 | 21° 3 | 19°45 | 20°51 | n.a. | M10 |
| T 11 | 15 2 41 | 16°23'53 | 23°43 | 8°43 | 9° 3 | 25°22 | 21°14 | 11° 2 | 20°53 | 25°57 | 20°44 | 21°R 3 | 19°41 | 20°58 | n.a. | T 11 |
| W12 | 15 6 38 | 17°21'08 | 5♈57 | 10° 8 | 10°16 | 25°59 | 21°20 | 10°59 | 20°56 | 25°59 | 20°46 | 21° 2 | 19°38 | 21° 4 | n.a. | W12 |
| T 13 | 15 10 34 | 18°18'23 | 18°28 | 11°31 | 11°28 | 26°36 | 21°26 | 10°56 | 20°59 | 26° 2 | 20°47 | 20°58 | 19°35 | 21°11 | n.a. | T 13 |
| F 14 | 15 14 31 | 19°15'37 | 1♉18 | 12°50 | 12°41 | 27°13 | 21°32 | 10°53 | 21° 2 | 26° 4 | 20°48 | 20°53 | 19°32 | 21°18 | n.a. | F 14 |
| S 15 | 15 18 27 | 20°12'51 | 14°26 | 14° 6 | 13°54 | 27°50 | 21°38 | 10°50 | 21° 6 | 26° 6 | 20°50 | 20°45 | 19°29 | 21°24 | n.a. | S 15 |
| S 16 | 15 22 24 | 21°10'04 | 27°54 | 15°20 | 15° 7 | 28°27 | 21°44 | 10°47 | 21° 9 | 26° 8 | 20°51 | 20°36 | 19°26 | 21°31 | n.a. | S 16 |
| M17 | 15 26 20 | 22° 7'16 | 11♊38 | 16°30 | 16°20 | 29° 4 | 21°49 | 10°44 | 21°12 | 26°11 | 20°53 | 20°26 | 19°22 | 21°38 | n.a. | M17 |
| T 18 | 15 30 17 | 23° 4'28 | 25°35 | 17°37 | 17°32 | 29°41 | 21°54 | 10°41 | 21°15 | 26°13 | 20°54 | 20°16 | 19°19 | 21°44 | n.a. | T 18 |
| W19 | 15 34 14 | 24° 1'40 | 9♋41 | 18°41 | 18°45 | 0♋18 | 22° 0 | 10°38 | 21°18 | 26°15 | 20°55 | 20° 8 | 19°16 | 21°51 | n.a. | W19 |
| T 20 | 15 38 10 | 24°58'50 | 23°52 | 19°42 | 19°58 | 0°55 | 22° 5 | 10°36 | 21°21 | 26°17 | 20°57 | 20° 2 | 19°13 | 21°58 | n.a. | T 20 |
| F 21 | 15 42 7 | 25°56'00 | 8♌ 4 | 20°39 | 21°10 | 1°32 | 22°10 | 10°33 | 21°24 | 26°20 | 20°58 | 19°59 | 19°10 | 22° 4 | n.a. | F 21 |
| S 22 | 15 46 3 | 26°53'09 | 22°15 | 21°33 | 22°23 | 2° 9 | 22°14 | 10°31 | 21°27 | 26°22 | 21° 0 | 19°D58 | 19° 6 | 22°11 | n.a. | S 22 |
| S 23 | 15 50 0 | 27°50'18 | 6♍22 | 22°24 | 23°36 | 2°46 | 22°19 | 10°29 | 21°30 | 26°24 | 21° 1 | 19°58 | 19° 3 | 22°18 | n.a. | S 23 |
| M24 | 15 53 56 | 28°47'25 | 20°26 | 23°10 | 24°48 | 3°23 | 22°23 | 10°26 | 21°33 | 26°26 | 21° 2 | 19°R58 | 19° 0 | 22°24 | n.a. | M24 |
| T 25 | 15 57 53 | 29°44'32 | 4♎25 | 23°53 | 26° 1 | 4° 1 | 22°27 | 10°24 | 21°36 | 26°29 | 21° 4 | 19°58 | 18°57 | 22°31 | n.a. | T 25 |
| W26 | 16 1 50 | 0♊41'39 | 18°18 | 24°32 | 27°13 | 4°38 | 22°31 | 10°22 | 21°39 | 26°31 | 21° 5 | 19°55 | 18°54 | 22°38 | n.a. | W26 |
| T 27 | 16 5 46 | 1°38'45 | 2♏ 3 | 25° 7 | 28°26 | 5°15 | 22°35 | 10°20 | 21°41 | 26°33 | 21° 7 | 19°49 | 18°51 | 22°44 | n.a. | T 27 |
| F 28 | 16 9 43 | 2°35'51 | 15°39 | 25°38 | 29°38 | 5°52 | 22°38 | 10°18 | 21°44 | 26°35 | 21° 8 | 19°41 | 18°47 | 22°51 | n.a. | F 28 |
| S 29 | 16 13 39 | 3°32'57 | 29° 2 | 26° 4 | 0♋51 | 6°29 | 22°42 | 10°16 | 21°47 | 26°37 | 21° 9 | 19°31 | 18°44 | 22°58 | n.a. | S 29 |
| S 30 | 16 17 36 | 4°30'02 | 12♐10 | 26°26 | 2° 3 | 7° 6 | 22°45 | 10°15 | 21°50 | 26°40 | 21°11 | 19°19 | 18°41 | 23° 4 | n.a. | S 30 |
| M31 | 16 21 32 | 5♊27'08 | 25♐ 3 | 26♊44 | 3♋15 | 7♋44 | 22♒48 | 10♎13 | 21♈53 | 26♉42 | 21♉12 | 19♓ 7 | 18♓38 | 23♒11 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 13n57 | 22s15 | 4s24 | 20n20 | 1n57 | 20n22 | 0n43 | 24n33 | 1n17 | 15s57 | 1s 3 | 2s 5 | 2n48 | 7n33 | 0s31 | 17n54 | 1s31 | 9n21 | 9s 3 | 3s23 | 3s55 | 17s30 | | n.a. |
| S 2 | 14 16 | 25 56 | 4 53 | 20 54 | 2 2 | 20 41 | 0 45 | 24 36 | 1 17 | 15 55 | 1 3 | 2 3 | 2 47 | 7 35 | 0 31 | 17 55 | 1 31 | 9 22 | 9 3 | 3 26 | 3 56 | 17 27 | | n.a. |
| M 3 | 14 35 | 28 8 | 5 7 | 21 25 | 2 6 | 21 0 | 0 48 | 24 39 | 1 17 | 15 53 | 1 3 | 2 2 | 2 47 | 7 36 | 0 31 | 17 55 | 1 31 | 9 22 | 9 2 | 3 29 | 3 57 | 17 24 | | n.a. |
| T 4 | 14 53 | 28 47 | 5 5 | 21 54 | 2 9 | 21 18 | 0 50 | 24 41 | 1 17 | 15 51 | 1 4 | 2 1 | 2 47 | 7 37 | 0 31 | 17 56 | 1 31 | 9 22 | 9 2 | 3 32 | 3 59 | 17 21 | | n.a. |
| W 5 | 15 11 | 27 56 | 4 48 | 22 21 | 2 12 | 21 36 | 0 52 | 24 44 | 1 17 | 15 49 | 1 4 | 2 0 | 2 47 | 7 38 | 0 31 | 17 56 | 1 31 | 9 23 | 9 2 | 3 34 | 4 0 | 17 18 | | n.a. |
| T 6 | 15 29 | 25 45 | 4 18 | 22 45 | 2 13 | 21 53 | 0 55 | 24 46 | 1 17 | 15 47 | 1 4 | 1 58 | 2 47 | 7 40 | 0 31 | 17 57 | 1 31 | 9 23 | 9 2 | 3 35 | 4 1 | 17 15 | | n.a. |
| F 7 | 15 47 | 22 28 | 3 38 | 23 6 | 2 15 | 22 9 | 0 57 | 24 48 | 1 17 | 15 45 | 1 4 | 1 57 | 2 47 | 7 41 | 0 31 | 17 57 | 1 31 | 9 24 | 9 2 | 3 36 | 4 3 | 17 12 | | n.a. |
| S 8 | 16 5 | 18 17 | 2 48 | 23 26 | 2 15 | 22 25 | 0 59 | 24 50 | 1 17 | 15 43 | 1 5 | 1 56 | 2 46 | 7 42 | 0 31 | 17 58 | 1 31 | 9 24 | 9 2 | 3 36 | 4 4 | 17 10 | | n.a. |
| S 9 | 16 22 | 13 24 | 1 52 | 23 43 | 2 15 | 22 40 | 1 1 | 24 52 | 1 17 | 15 41 | 1 5 | 1 55 | 2 46 | 7 43 | 0 31 | 17 59 | 1 31 | 9 25 | 9 2 | 3 36 | 4 5 | 17 7 | | n.a. |
| M10 | 16 39 | 8 2 | 0 50 | 23 57 | 2 13 | 22 54 | 1 3 | 24 53 | 1 17 | 15 39 | 1 5 | 1 53 | 2 46 | 7 45 | 0 31 | 17 59 | 1 31 | 9 25 | 9 2 | 3 35 | 4 6 | 17 4 | | n.a. |
| T 11 | 16 56 | 2 18 | 0n14 | 24 10 | 2 12 | 23 8 | 1 6 | 24 55 | 1 17 | 15 37 | 1 6 | 1 52 | 2 46 | 7 46 | 0 31 | 18 0 | 1 31 | 9 25 | 9 2 | 3 35 | 4 8 | 17 1 | | n.a. |
| W12 | 17 12 | 3n36 | 1 19 | 24 21 | 2 9 | 23 21 | 1 8 | 24 56 | 1 17 | 15 35 | 1 6 | 1 51 | 2 46 | 7 47 | 0 31 | 18 0 | 1 31 | 9 26 | 9 2 | 3 36 | 4 9 | 16 58 | | n.a. |
| T 13 | 17 28 | 9 30 | 2 21 | 24 29 | 2 5 | 23 34 | 1 10 | 24 57 | 1 17 | 15 34 | 1 6 | 1 50 | 2 46 | 7 48 | 0 31 | 18 1 | 1 31 | 9 26 | 9 2 | 3 37 | 4 10 | 16 55 | | n.a. |
| F 14 | 17 44 | 15 8 | 3 18 | 24 36 | 2 1 | 23 45 | 1 12 | 24 58 | 1 17 | 15 32 | 1 6 | 1 49 | 2 45 | 7 49 | 0 31 | 18 1 | 1 30 | 9 27 | 9 2 | 3 39 | 4 11 | 16 52 | | n.a. |
| S 15 | 18 0 | 20 15 | 4 6 | 24 41 | 1 57 | 23 57 | 1 14 | 24 58 | 1 17 | 15 30 | 1 7 | 1 48 | 2 45 | 7 51 | 0 31 | 18 2 | 1 30 | 9 27 | 9 2 | 3 42 | 4 13 | 16 49 | | n.a. |
| S 16 | 18 15 | 24 28 | 4 41 | 24 44 | 1 51 | 24 7 | 1 16 | 24 59 | 1 17 | 15 29 | 1 7 | 1 47 | 2 45 | 7 52 | 0 31 | 18 2 | 1 30 | 9 27 | 9 2 | 3 46 | 4 14 | 16 46 | | n.a. |
| M17 | 18 30 | 27 23 | 5 0 | 24 45 | 1 45 | 24 17 | 1 18 | 24 59 | 1 17 | 15 27 | 1 7 | 1 46 | 2 45 | 7 53 | 0 31 | 18 3 | 1 30 | 9 28 | 9 2 | 3 50 | 4 15 | 16 43 | | n.a. |
| T 18 | 18 45 | 28 40 | 5 2 | 24 45 | 1 38 | 24 26 | 1 19 | 24 59 | 1 17 | 15 26 | 1 8 | 1 45 | 2 45 | 7 54 | 0 31 | 18 3 | 1 30 | 9 28 | 9 2 | 3 54 | 4 16 | 16 40 | | n.a. |
| W19 | 18 59 | 28 6 | 4 46 | 24 43 | 1 30 | 24 34 | 1 21 | 24 59 | 1 17 | 15 24 | 1 8 | 1 45 | 2 44 | 7 55 | 0 31 | 18 4 | 1 30 | 9 29 | 9 1 | 3 57 | 4 18 | 16 37 | | n.a. |
| T 20 | 19 13 | 25 43 | 4 13 | 24 39 | 1 22 | 24 42 | 1 23 | 24 59 | 1 17 | 15 23 | 1 8 | 1 44 | 2 44 | 7 56 | 0 31 | 18 4 | 1 30 | 9 29 | 9 1 | 3 59 | 4 19 | 16 35 | | n.a. |
| F 21 | 19 27 | 21 44 | 3 24 | 24 35 | 1 12 | 24 49 | 1 25 | 24 59 | 1 17 | 15 22 | 1 9 | 1 43 | 2 44 | 7 58 | 0 31 | 18 5 | 1 30 | 9 29 | 9 1 | 4 1 | 4 20 | 16 32 | | n.a. |
| S 22 | 19 41 | 16 29 | 2 22 | 24 29 | 1 3 | 24 55 | 1 26 | 24 58 | 1 17 | 15 20 | 1 9 | 1 42 | 2 44 | 7 59 | 0 31 | 18 6 | 1 30 | 9 30 | 9 1 | 4 1 | 4 21 | 16 29 | | n.a. |
| S 23 | 19 54 | 10 23 | 1 12 | 24 21 | 0 52 | 25 1 | 1 28 | 24 57 | 1 17 | 15 19 | 1 9 | 1 42 | 2 43 | 8 0 | 0 31 | 18 6 | 1 30 | 9 30 | 9 1 | 4 1 | 4 23 | 16 26 | | n.a. |
| M24 | 20 7 | 3 47 | 0s 2 | 24 13 | 0 41 | 25 5 | 1 29 | 24 56 | 1 17 | 15 18 | 1 9 | 1 41 | 2 43 | 8 1 | 0 31 | 18 7 | 1 30 | 9 30 | 9 1 | 4 1 | 4 24 | 16 23 | | n.a. |
| T 25 | 20 19 | 2s56 | 1 16 | 24 3 | 0 30 | 25 10 | 1 31 | 24 55 | 1 17 | 15 17 | 1 10 | 1 40 | 2 43 | 8 2 | 0 31 | 18 7 | 1 30 | 9 31 | 9 1 | 4 1 | 4 25 | 16 20 | | n.a. |
| W26 | 20 31 | 9 28 | 2 24 | 23 53 | 0 17 | 25 13 | 1 32 | 24 54 | 1 16 | 15 16 | 1 10 | 1 40 | 2 43 | 8 3 | 0 31 | 18 8 | 1 30 | 9 31 | 9 1 | 4 2 | 4 26 | 16 17 | | n.a. |
| T 27 | 20 43 | 15 30 | 3 24 | 23 41 | 0 4 | 25 15 | 1 34 | 24 52 | 1 16 | 15 15 | 1 10 | 1 39 | 2 42 | 8 4 | 0 31 | 18 8 | 1 30 | 9 32 | 9 1 | 4 4 | 4 28 | 16 14 | | n.a. |
| F 28 | 20 55 | 20 41 | 4 10 | 23 29 | 0s 9 | 25 17 | 1 35 | 24 51 | 1 16 | 15 14 | 1 11 | 1 38 | 2 42 | 8 5 | 0 31 | 18 9 | 1 30 | 9 32 | 9 1 | 4 8 | 4 29 | 16 11 | | n.a. |
| S 29 | 21 6 | 24 45 | 4 42 | 23 16 | 0 23 | 25 18 | 1 36 | 24 49 | 1 16 | 15 13 | 1 11 | 1 38 | 2 42 | 8 6 | 0 31 | 18 9 | 1 30 | 9 32 | 9 1 | 4 12 | 4 30 | 16 8 | | n.a. |
| S 30 | 21 17 | 27 26 | 4 59 | 23 2 | 0 37 | 25 19 | 1 37 | 24 47 | 1 16 | 15 12 | 1 11 | 1 38 | 2 42 | 8 7 | 0 31 | 18 10 | 1 30 | 9 33 | 9 1 | 4 16 | 4 31 | 16 5 | | n.a. |
| M31 | 21n27 | 28s36 | 5s 0 | 22n48 | 0s52 | 25n18 | 1n38 | 24n45 | 1n16 | 15s12 | 1s12 | 1s37 | 2n42 | 8n 8 | 0s31 | 18n10 | 1s30 | 9n33 | 9s 1 | 4s21 | 4s33 | 16s 2 | | n.a. |

Julian Day Number = 1692688.5, Delta T = 03h09m39s
Ecliptic obliquity = 23°42'26, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°09'02, Lahiri = - 5°02'02 Julian Calendar 1 May 79 BCE == Greg. Calendar 29 Apr. 079 BCE

The year -78 astronomical counting style corresponds to year 079 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 79 BCE
# geocentric

## JUNE 79 BCE (-78) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 25 29 | 6♊24'13 | 7♑39 | 26♊58 | 4♋28 | 8♋21 | 22♒51 | 10°R12 | 21♈55 | 26♉44 | 21♉13 | 18°R56 | 18♓35 | 23♒17 | n.a. | T 1 |
| W 2 | 16 29 25 | 7°21'19 | 20° 0 | 27° 6 | 5°40 | 8°58 | 22°54 | 10♎10 | 21°58 | 26°46 | 21°15 | 18♓47 | 18°32 | 23°24 | n.a. | W 2 |
| T 3 | 16 33 22 | 8°18'25 | 2♒ 7 | 27°R10 | 6°52 | 9°35 | 22°56 | 10° 9 | 22° 1 | 26°49 | 21°16 | 18°40 | 18°28 | 23°31 | n.a. | T 3 |
| F 4 | 16 37 19 | 9°15'31 | 14° 3 | 27°10 | 8° 4 | 10°12 | 22°59 | 10° 7 | 22° 3 | 26°51 | 21°17 | 18°35 | 18°25 | 23°37 | n.a. | F 4 |
| S 5 | 16 41 15 | 10°12'37 | 25°54 | 27° 5 | 9°17 | 10°50 | 23° 1 | 10° 6 | 22° 6 | 26°53 | 21°19 | 18°33 | 18°22 | 23°44 | n.a. | S 5 |
| S 6 | 16 45 12 | 11° 9'43 | 7♓43 | 26°55 | 10°29 | 11°27 | 23° 3 | 10° 5 | 22° 8 | 26°55 | 21°20 | 18°32 | 18°19 | 23°51 | n.a. | S 6 |
| M 7 | 16 49 8 | 12° 6'50 | 19°36 | 26°41 | 11°41 | 12° 4 | 23° 5 | 10° 4 | 22°11 | 26°57 | 21°21 | 18°32 | 18°16 | 23°57 | n.a. | M 7 |
| T 8 | 16 53 5 | 13° 3'58 | 1♈38 | 26°22 | 12°53 | 12°42 | 23° 6 | 10° 3 | 22°13 | 26°59 | 21°23 | 18°32 | 18°12 | 24° 4 | n.a. | T 8 |
| W 9 | 16 57 1 | 14° 1'05 | 13°55 | 25°59 | 14° 5 | 13°19 | 23° 7 | 10° 2 | 22°16 | 27° 2 | 21°24 | 18°30 | 18° 9 | 24°11 | n.a. | W 9 |
| T 10 | 17 0 58 | 14°58'14 | 26°31 | 25°33 | 15°17 | 13°56 | 23° 9 | 10° 2 | 22°18 | 27° 4 | 21°25 | 18°26 | 18° 6 | 24°17 | n.a. | T 10 |
| F 11 | 17 4 54 | 15°55'23 | 9♉30 | 25° 3 | 16°29 | 14°34 | 23°10 | 10° 1 | 22°21 | 27° 6 | 21°27 | 18°19 | 18° 3 | 24°24 | n.a. | F 11 |
| S 12 | 17 8 51 | 16°52'32 | 22°53 | 24°30 | 17°41 | 15°11 | 23°10 | 10° 1 | 22°23 | 27° 8 | 21°28 | 18°10 | 18° 0 | 24°31 | n.a. | S 12 |
| S 13 | 17 12 48 | 17°49'42 | 6♊39 | 23°55 | 18°53 | 15°49 | 23°11 | 10° 0 | 22°25 | 27°10 | 21°29 | 17°59 | 17°57 | 24°37 | n.a. | S 13 |
| M14 | 17 16 44 | 18°46'52 | 20°46 | 23°17 | 20° 5 | 16°26 | 23°11 | 10° 0 | 22°27 | 27°12 | 21°31 | 17°48 | 17°53 | 24°44 | n.a. | M14 |
| T 15 | 17 20 41 | 19°44'03 | 5♋ 9 | 22°39 | 21°17 | 17° 4 | 23°12 | 10° 0 | 22°30 | 27°14 | 21°32 | 17°36 | 17°50 | 24°51 | n.a. | T 15 |
| W16 | 17 24 37 | 20°41'14 | 19°40 | 21°59 | 22°29 | 17°41 | 23°R12 | 10° 0 | 22°32 | 27°17 | 21°33 | 17°27 | 17°47 | 24°57 | n.a. | W16 |
| T 17 | 17 28 34 | 21°38'26 | 4♌14 | 21°19 | 23°40 | 18°19 | 23°12 | 10°D 0 | 22°34 | 27°19 | 21°34 | 17°20 | 17°44 | 25° 4 | n.a. | T 17 |
| F 18 | 17 32 30 | 22°35'37 | 18°44 | 20°40 | 24°52 | 18°56 | 23°11 | 10° 0 | 22°36 | 27°21 | 21°36 | 17°15 | 17°41 | 25°11 | n.a. | F 18 |
| S 19 | 17 36 27 | 23°32'49 | 3♍ 6 | 20° 3 | 26° 4 | 19°34 | 23°11 | 10° 0 | 22°38 | 27°23 | 21°37 | 17°13 | 17°38 | 25°17 | n.a. | S 19 |
| S 20 | 17 40 24 | 24°30'01 | 17°18 | 19°27 | 27°15 | 20°11 | 23°10 | 10° 0 | 22°40 | 27°25 | 21°38 | 17°13 | 17°34 | 25°24 | n.a. | S 20 |
| M21 | 17 44 20 | 25°27'13 | 1♎17 | 18°54 | 28°27 | 20°49 | 23° 9 | 10° 0 | 22°42 | 27°27 | 21°39 | 17°13 | 17°31 | 25°31 | n.a. | M21 |
| T 22 | 17 48 17 | 26°24'26 | 15° 4 | 18°24 | 29°39 | 21°26 | 23° 8 | 10° 1 | 22°44 | 27°29 | 21°40 | 17°12 | 17°28 | 25°37 | n.a. | T 22 |
| W23 | 17 52 13 | 27°21'39 | 28°40 | 17°58 | 0♌50 | 22° 4 | 23° 6 | 10° 1 | 22°46 | 27°31 | 21°42 | 17° 9 | 17°25 | 25°44 | n.a. | W23 |
| T 24 | 17 56 10 | 28°18'53 | 12♏ 4 | 17°36 | 2° 2 | 22°42 | 23° 5 | 10° 2 | 22°48 | 27°33 | 21°43 | 17° 3 | 17°22 | 25°51 | n.a. | T 24 |
| F 25 | 18 0 6 | 29°16'07 | 25°17 | 17°20 | 3°13 | 23°19 | 23° 3 | 10° 3 | 22°50 | 27°35 | 21°44 | 16°55 | 17°18 | 25°57 | n.a. | F 25 |
| S 26 | 18 4 3 | 0♋13'22 | 8♐18 | 17° 8 | 4°24 | 23°57 | 23° 1 | 10° 4 | 22°52 | 27°37 | 21°45 | 16°45 | 17°15 | 26° 4 | n.a. | S 26 |
| S 27 | 18 7 59 | 1°10'37 | 21° 7 | 17° 2 | 5°36 | 24°35 | 22°59 | 10° 5 | 22°53 | 27°39 | 21°46 | 16°33 | 17°12 | 26°11 | n.a. | S 27 |
| M28 | 18 11 56 | 2° 7'53 | 3♑43 | 17°D 1 | 6°47 | 25°12 | 22°57 | 10° 6 | 22°55 | 27°41 | 21°47 | 16°20 | 17° 9 | 26°17 | n.a. | M28 |
| T 29 | 18 15 53 | 3° 5'11 | 16° 7 | 17° 6 | 7°58 | 25°50 | 22°54 | 10° 7 | 22°57 | 27°43 | 21°48 | 16° 8 | 17° 6 | 26°24 | n.a. | T 29 |
| W30 | 18 19 49 | 4♋ 2'29 | 28♑18 | 17♊18 | 9♌ 9 | 26♋28 | 22♒51 | 10♎ 8 | 22♈58 | 27♉44 | 21♉49 | 15♓59 | 17♓ 3 | 26♒31 | n.a. | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21n37 | 28s14 | 4s45 | 22n33 | 1s 7 | 25n17 | 1n39 | 24n42 | 1n16 | 15s11 | 1s12 | 1s37 | 2n41 | 8n 9 | 0s31 | 18n11 | 1s30 | 9n33 | 9s 1 | 4s25 | 4s34 | 15s59 | | n.a. |
| W 2 | 21 47 | 26 27 | 4 18 | 22 18 | 1 22 | 25 15 | 1 40 | 24 40 | 1 16 | 15 10 | 1 12 | 1 36 | 2 41 | 8 10 | 0 31 | 18 11 | 1 30 | 9 34 | 9 1 | 4 29 | 4 35 | 15 56 | | n.a. |
| T 3 | 21 56 | 23 28 | 3 40 | 22 3 | 1 38 | 25 13 | 1 41 | 24 37 | 1 16 | 15 10 | 1 13 | 1 36 | 2 41 | 8 11 | 0 31 | 18 12 | 1 30 | 9 34 | 9 1 | 4 32 | 4 36 | 15 53 | | n.a. |
| F 4 | 22 5 | 19 32 | 2 52 | 21 47 | 1 54 | 25 9 | 1 42 | 24 34 | 1 16 | 15 9 | 1 13 | 1 36 | 2 41 | 8 12 | 0 31 | 18 12 | 1 30 | 9 34 | 9 1 | 4 34 | 4 38 | 15 50 | | n.a. |
| S 5 | 22 14 | 14 52 | 1 57 | 21 31 | 2 10 | 25 5 | 1 43 | 24 31 | 1 16 | 15 9 | 1 13 | 1 36 | 2 40 | 8 13 | 0 31 | 18 13 | 1 30 | 9 35 | 9 1 | 4 35 | 4 39 | 15 47 | | n.a. |
| S 6 | 22 22 | 9 39 | 0 57 | 21 15 | 2 25 | 25 0 | 1 43 | 24 28 | 1 16 | 15 9 | 1 14 | 1 35 | 2 40 | 8 14 | 0 31 | 18 13 | 1 30 | 9 35 | 9 1 | 4 35 | 4 40 | 15 44 | | n.a. |
| M 7 | 22 30 | 4 5 | 0n 6 | 20 59 | 2 41 | 24 55 | 1 44 | 24 24 | 1 15 | 15 8 | 1 14 | 1 35 | 2 40 | 8 15 | 0 31 | 18 14 | 1 30 | 9 35 | 9 1 | 4 35 | 4 42 | 15 41 | | n.a. |
| T 8 | 22 37 | 1n42 | 1 9 | 20 44 | 2 56 | 24 48 | 1 44 | 24 21 | 1 15 | 15 8 | 1 14 | 1 35 | 2 39 | 8 16 | 0 31 | 18 14 | 1 30 | 9 35 | 9 1 | 4 35 | 4 43 | 15 38 | | n.a. |
| W 9 | 22 44 | 7 33 | 2 10 | 20 29 | 3 10 | 24 41 | 1 45 | 24 17 | 1 15 | 15 8 | 1 15 | 1 35 | 2 39 | 8 17 | 0 31 | 18 15 | 1 30 | 9 36 | 9 1 | 4 36 | 4 44 | 15 35 | | n.a. |
| T 10 | 22 51 | 13 14 | 3 7 | 20 14 | 3 24 | 24 34 | 1 45 | 24 13 | 1 15 | 15 8 | 1 15 | 1 35 | 2 39 | 8 18 | 0 31 | 18 15 | 1 30 | 9 36 | 9 2 | 4 38 | 4 45 | 15 32 | | n.a. |
| F 11 | 22 57 | 18 31 | 3 55 | 19 59 | 3 38 | 24 25 | 1 46 | 24 9 | 1 15 | 15 8 | 1 15 | 1 35 | 2 39 | 8 19 | 0 31 | 18 16 | 1 30 | 9 36 | 9 2 | 4 40 | 4 47 | 15 29 | | n.a. |
| S 12 | 23 3 | 23 5 | 4 32 | 19 46 | 3 50 | 24 16 | 1 46 | 24 4 | 1 15 | 15 8 | 1 16 | 1 35 | 2 38 | 8 20 | 0 31 | 18 16 | 1 30 | 9 37 | 9 2 | 4 44 | 4 48 | 15 26 | | n.a. |
| S 13 | 23 9 | 26 30 | 4 55 | 19 33 | 4 1 | 24 6 | 1 46 | 24 0 | 1 15 | 15 8 | 1 16 | 1 35 | 2 38 | 8 20 | 0 31 | 18 17 | 1 30 | 9 37 | 9 2 | 4 48 | 4 49 | 15 23 | | n.a. |
| M14 | 23 14 | 28 22 | 5 0 | 19 21 | 4 11 | 23 56 | 1 46 | 23 55 | 1 15 | 15 8 | 1 16 | 1 35 | 2 38 | 8 21 | 0 31 | 18 17 | 1 30 | 9 37 | 9 2 | 4 53 | 4 50 | 15 20 | | n.a. |
| T 15 | 23 18 | 28 23 | 4 47 | 19 11 | 4 20 | 23 45 | 1 46 | 23 50 | 1 15 | 15 8 | 1 17 | 1 35 | 2 38 | 8 22 | 0 31 | 18 18 | 1 30 | 9 37 | 9 2 | 4 57 | 4 52 | 15 17 | | n.a. |
| W16 | 23 23 | 26 27 | 4 15 | 19 1 | 4 27 | 23 33 | 1 46 | 23 45 | 1 14 | 15 9 | 1 17 | 1 36 | 2 37 | 8 23 | 0 31 | 18 18 | 1 30 | 9 38 | 9 2 | 5 1 | 4 53 | 15 14 | | n.a. |
| T 17 | 23 26 | 22 45 | 3 26 | 18 53 | 4 33 | 23 20 | 1 46 | 23 40 | 1 14 | 15 9 | 1 17 | 1 36 | 2 37 | 8 24 | 0 31 | 18 19 | 1 30 | 9 38 | 9 2 | 5 4 | 4 54 | 15 11 | | n.a. |
| F 18 | 23 30 | 17 40 | 2 24 | 18 46 | 4 37 | 23 7 | 1 45 | 23 35 | 1 14 | 15 10 | 1 17 | 1 36 | 2 37 | 8 24 | 0 31 | 18 19 | 1 30 | 9 38 | 9 2 | 5 5 | 4 55 | 15 8 | | n.a. |
| S 19 | 23 33 | 11 38 | 1 14 | 18 41 | 4 40 | 22 53 | 1 45 | 23 29 | 1 14 | 15 10 | 1 18 | 1 36 | 2 37 | 8 25 | 0 31 | 18 20 | 1 31 | 9 39 | 9 2 | 5 6 | 4 57 | 15 5 | | n.a. |
| S 20 | 23 35 | 5 4 | 0s 0 | 18 37 | 4 40 | 22 39 | 1 45 | 23 23 | 1 14 | 15 11 | 1 18 | 1 37 | 2 36 | 8 26 | 0 31 | 18 20 | 1 31 | 9 39 | 9 2 | 5 6 | 4 58 | 15 2 | | n.a. |
| M21 | 23 38 | 1s39 | 1 14 | 18 36 | 4 40 | 22 24 | 1 44 | 23 17 | 1 14 | 15 11 | 1 18 | 1 37 | 2 36 | 8 27 | 0 31 | 18 20 | 1 31 | 9 39 | 9 2 | 5 6 | 4 59 | 14 59 | | n.a. |
| T 22 | 23 39 | 8 11 | 2 22 | 18 35 | 4 37 | 22 8 | 1 43 | 23 11 | 1 14 | 15 12 | 1 19 | 1 38 | 2 36 | 8 27 | 0 31 | 18 21 | 1 31 | 9 39 | 9 2 | 5 7 | 5 0 | 14 56 | | n.a. |
| W23 | 23 41 | 14 14 | 3 21 | 18 37 | 4 33 | 21 52 | 1 43 | 23 5 | 1 13 | 15 13 | 1 19 | 1 38 | 2 35 | 8 28 | 0 31 | 18 21 | 1 31 | 9 39 | 9 2 | 5 8 | 5 2 | 14 52 | | n.a. |
| T 24 | 23 42 | 19 33 | 4 7 | 18 41 | 4 28 | 21 35 | 1 42 | 22 59 | 1 13 | 15 13 | 1 19 | 1 39 | 2 35 | 8 29 | 0 31 | 18 22 | 1 31 | 9 40 | 9 2 | 5 10 | 5 3 | 14 49 | | n.a. |
| F 25 | 23 42 | 23 49 | 4 40 | 18 46 | 4 21 | 21 18 | 1 41 | 22 52 | 1 13 | 15 14 | 1 20 | 1 39 | 2 35 | 8 29 | 0 31 | 18 22 | 1 31 | 9 40 | 9 2 | 5 13 | 5 4 | 14 46 | | n.a. |
| S 26 | 23 42 | 26 50 | 4 58 | 18 53 | 4 13 | 20 59 | 1 40 | 22 45 | 1 13 | 15 15 | 1 20 | 1 40 | 2 35 | 8 30 | 0 31 | 18 23 | 1 31 | 9 40 | 9 2 | 5 17 | 5 5 | 14 43 | | n.a. |
| S 27 | 23 42 | 28 24 | 5 0 | 19 1 | 4 4 | 20 41 | 1 39 | 22 38 | 1 13 | 15 16 | 1 20 | 1 40 | 2 34 | 8 31 | 0 31 | 18 23 | 1 31 | 9 40 | 9 3 | 5 22 | 5 7 | 14 40 | | n.a. |
| M28 | 23 41 | 28 27 | 4 48 | 19 12 | 3 53 | 20 22 | 1 38 | 22 31 | 1 13 | 15 17 | 1 21 | 1 41 | 2 34 | 8 31 | 0 31 | 18 23 | 1 31 | 9 41 | 9 3 | 5 27 | 5 8 | 14 37 | | n.a. |
| T 29 | 23 40 | 27 3 | 4 22 | 19 24 | 3 42 | 20 2 | 1 37 | 22 24 | 1 13 | 15 18 | 1 21 | 1 42 | 2 34 | 8 32 | 0 31 | 18 24 | 1 31 | 9 41 | 9 3 | 5 32 | 5 9 | 14 34 | | n.a. |
| W30 | 23n39 | 24s23 | 3s44 | 19n37 | 3s30 | 19n42 | 1n35 | 22n17 | 1n12 | 15s20 | 1s21 | 1s42 | 2n34 | 8n33 | 0s31 | 18n24 | 1s31 | 9n41 | 9s 3 | 5s35 | 5s10 | 14s31 | | n.a. |

Julian Day Number = 1692719.5, Delta T = 03h09m38s
Ecliptic obliquity = 23°42'25, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°08'58, Lahiri = - 5°01'58 Julian Calendar 1 June 79 BCE == Greg. Calendar 30 May 079 BCE

The year -78 astronomical counting style corresponds to year 079 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 79 BCE
# geocentric

## JULY 79 BCE (-78) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 23 46 | 4♋59'48 | 10♒19 | 17♊35 | 10♌21 | 27♋ 6 | 22°R49 | 10♎ 9 | 23♈ 0 | 27♉46 | 21♉51 | 15°R51 | 16♓59 | 26♒37 | n.a. | T 1 |
| F 2 | 18 27 42 | 5°57'08 | 22°12 | 17°59 | 11°32 | 27°43 | 22♒46 | 10°11 | 23° 1 | 27°48 | 21°52 | 15♓46 | 16°56 | 26°44 | n.a. | F 2 |
| S 3 | 18 31 39 | 6°54'29 | 4♓ 0 | 18°29 | 12°43 | 28°21 | 22°42 | 10°12 | 23° 3 | 27°50 | 21°53 | 15°44 | 16°53 | 26°51 | n.a. | S 3 |
| S 4 | 18 35 35 | 7°51'51 | 15°48 | 19° 6 | 13°54 | 28°59 | 22°39 | 10°14 | 23° 4 | 27°52 | 21°54 | 15°D43 | 16°50 | 26°57 | n.a. | S 4 |
| M 5 | 18 39 32 | 8°49'15 | 27°40 | 19°48 | 15° 5 | 29°37 | 22°35 | 10°16 | 23° 6 | 27°54 | 21°55 | 15°43 | 16°47 | 27° 4 | n.a. | M 5 |
| T 6 | 18 43 28 | 9°46'40 | 9♈41 | 20°37 | 16°15 | 0♌15 | 22°31 | 10°17 | 23° 7 | 27°55 | 21°56 | 15°R44 | 16°44 | 27°11 | n.a. | T 6 |
| W 7 | 18 47 25 | 10°44'06 | 21°58 | 21°32 | 17°26 | 0°53 | 22°27 | 10°19 | 23° 8 | 27°57 | 21°57 | 15°43 | 16°40 | 27°17 | n.a. | W 7 |
| T 8 | 18 51 22 | 11°41'34 | 4♉34 | 22°33 | 18°37 | 1°31 | 22°23 | 10°21 | 23°10 | 27°59 | 21°58 | 15°41 | 16°37 | 27°24 | n.a. | T 8 |
| F 9 | 18 55 18 | 12°39'04 | 17°34 | 23°39 | 19°48 | 2° 9 | 22°19 | 10°23 | 23°11 | 28° 1 | 21°59 | 15°36 | 16°34 | 27°30 | n.a. | F 9 |
| S 10 | 18 59 15 | 13°36'34 | 1♊ 2 | 24°51 | 20°58 | 2°47 | 22°14 | 10°25 | 23°12 | 28° 2 | 22° 0 | 15°29 | 16°31 | 27°37 | n.a. | S 10 |
| S 11 | 19 3 11 | 14°34'07 | 14°57 | 26° 9 | 22° 9 | 3°25 | 22°10 | 10°28 | 23°13 | 28° 4 | 22° 1 | 15°21 | 16°28 | 27°44 | n.a. | S 11 |
| M12 | 19 7 8 | 15°31'40 | 29°17 | 27°32 | 23°19 | 4° 3 | 22° 5 | 10°30 | 23°14 | 28° 6 | 22° 1 | 15°12 | 16°24 | 27°50 | n.a. | M12 |
| T 13 | 19 11 4 | 16°29'15 | 13♋57 | 29° 0 | 24°30 | 4°41 | 22° 0 | 10°32 | 23°15 | 28° 7 | 22° 2 | 15° 3 | 16°21 | 27°57 | n.a. | T 13 |
| W14 | 19 15 1 | 17°26'52 | 28°49 | 0♋32 | 25°40 | 5°19 | 21°55 | 10°35 | 23°16 | 28° 9 | 22° 3 | 14°55 | 16°18 | 28° 4 | n.a. | W14 |
| T 15 | 19 18 58 | 18°24'29 | 13♌46 | 2° 9 | 26°51 | 5°57 | 21°50 | 10°38 | 23°17 | 28°10 | 22° 4 | 14°49 | 16°15 | 28°10 | n.a. | T 15 |
| F 16 | 19 22 54 | 19°22'08 | 28°38 | 3°50 | 28° 1 | 6°35 | 21°44 | 10°40 | 23°18 | 28°12 | 22° 5 | 14°46 | 16°12 | 28°17 | n.a. | F 16 |
| S 17 | 19 26 51 | 20°19'48 | 13♍18 | 5°35 | 29°11 | 7°13 | 21°38 | 10°43 | 23°19 | 28°14 | 22° 6 | 14°D45 | 16° 9 | 28°24 | n.a. | S 17 |
| S 18 | 19 30 47 | 21°17'29 | 27°43 | 7°22 | 0♍21 | 7°52 | 21°33 | 10°46 | 23°20 | 28°15 | 22° 7 | 14°46 | 16° 5 | 28°30 | n.a. | S 18 |
| M19 | 19 34 44 | 22°15'11 | 11♎48 | 9°13 | 1°31 | 8°30 | 21°27 | 10°49 | 23°20 | 28°17 | 22° 7 | 14°46 | 16° 2 | 28°37 | n.a. | M19 |
| T 20 | 19 38 40 | 23°12'54 | 25°35 | 11° 6 | 2°41 | 9° 8 | 21°21 | 10°52 | 23°21 | 28°18 | 22° 8 | 14°R47 | 15°59 | 28°44 | n.a. | T 20 |
| W21 | 19 42 37 | 24°10'38 | 9♏ 4 | 13° 1 | 3°51 | 9°46 | 21°14 | 10°55 | 23°22 | 28°19 | 22° 9 | 14°46 | 15°56 | 28°50 | n.a. | W21 |
| T 22 | 19 46 33 | 25° 8'24 | 22°15 | 14°58 | 5° 1 | 10°25 | 21° 8 | 10°58 | 23°22 | 28°21 | 22°10 | 14°43 | 15°53 | 28°57 | n.a. | T 22 |
| F 23 | 19 50 30 | 26° 6'11 | 5♐12 | 16°57 | 6°11 | 11° 3 | 21° 2 | 11° 2 | 23°23 | 28°22 | 22°10 | 14°37 | 15°50 | 29° 4 | n.a. | F 23 |
| S 24 | 19 54 27 | 27° 3'59 | 17°55 | 18°56 | 7°21 | 11°41 | 20°55 | 11° 5 | 23°23 | 28°24 | 22°11 | 14°30 | 15°46 | 29°10 | n.a. | S 24 |
| S 25 | 19 58 23 | 28° 1'49 | 0♑26 | 20°55 | 8°30 | 12°20 | 20°48 | 11° 9 | 23°24 | 28°25 | 22°12 | 14°22 | 15°43 | 29°17 | n.a. | S 25 |
| M26 | 20 2 20 | 28°59'41 | 12°46 | 22°55 | 9°40 | 12°58 | 20°42 | 11°12 | 23°24 | 28°26 | 22°12 | 14°14 | 15°40 | 29°24 | n.a. | M26 |
| T 27 | 20 6 16 | 29°57'33 | 24°56 | 24°55 | 10°49 | 13°37 | 20°35 | 11°16 | 23°24 | 28°27 | 22°13 | 14° 6 | 15°37 | 29°30 | n.a. | T 27 |
| W28 | 20 10 13 | 0♌55'28 | 6♒57 | 26°55 | 11°58 | 14°15 | 20°28 | 11°19 | 23°25 | 28°29 | 22°14 | 14° 0 | 15°34 | 29°37 | n.a. | W28 |
| T 29 | 20 14 9 | 1°53'24 | 18°51 | 28°54 | 13° 8 | 14°53 | 20°21 | 11°23 | 23°25 | 28°30 | 22°14 | 13°55 | 15°30 | 29°44 | n.a. | T 29 |
| F 30 | 20 18 6 | 2°51'22 | 0♓41 | 0♌53 | 14°17 | 15°32 | 20°13 | 11°27 | 23°25 | 28°31 | 22°15 | 13°52 | 15°27 | 29°50 | n.a. | F 30 |
| S 31 | 20 22 2 | 3♌49'21 | 12♓27 | 2♌51 | 15♍26 | 16♌10 | 20♒ 6 | 11♎31 | 23♈25 | 28♉32 | 22♉15 | 13°D51 | 15♓24 | 29♒57 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| T 1 | 23n37 | 20s41 | 2s56 | 19n51 | 3s17 | 19n21 | 1n34 | 22n 9 | 1n12 | 15s21 | 1s22 | 1s43 | 2n33 | 8n33 | 0s31 | 18n25 | 1s31 | 9n41 | 9s 3 | 5s38 | 5s12 | 14s28 | | | n.a. |
| F 2 | 23 34 | 16 11 | 2 2 | 20 7 | 3 3 | 19 0 | 1 33 | 22 2 | 1 12 | 15 22 | 1 22 | 1 44 | 2 33 | 8 34 | 0 31 | 18 25 | 1 31 | 9 41 | 9 3 | 5 40 | 5 13 | 14 25 | | | n.a. |
| S 3 | 23 31 | 11 7 | 1 2 | 20 24 | 2 49 | 18 38 | 1 31 | 21 54 | 1 12 | 15 24 | 1 22 | 1 45 | 2 33 | 8 34 | 0 31 | 18 25 | 1 31 | 9 41 | 9 3 | 5 41 | 5 14 | 14 22 | | | n.a. |
| S 4 | 23 28 | 5 39 | 0n 0 | 20 41 | 2 34 | 18 16 | 1 29 | 21 46 | 1 12 | 15 25 | 1 23 | 1 46 | 2 33 | 8 35 | 0 31 | 18 26 | 1 31 | 9 42 | 9 3 | 5 42 | 5 15 | 14 19 | | | n.a. |
| M 5 | 23 25 | 0n 2 | 1 3 | 20 59 | 2 20 | 17 53 | 1 28 | 21 37 | 1 12 | 15 26 | 1 23 | 1 47 | 2 32 | 8 35 | 0 31 | 18 26 | 1 31 | 9 42 | 9 3 | 5 41 | 5 17 | 14 16 | | | n.a. |
| T 6 | 23 21 | 5 47 | 2 4 | 21 18 | 2 5 | 17 30 | 1 26 | 21 29 | 1 11 | 15 28 | 1 23 | 1 48 | 2 32 | 8 36 | 0 31 | 18 27 | 1 31 | 9 42 | 9 3 | 5 41 | 5 18 | 14 12 | | | n.a. |
| W 7 | 23 16 | 11 26 | 3 1 | 21 37 | 1 49 | 17 7 | 1 24 | 21 21 | 1 11 | 15 30 | 1 23 | 1 49 | 2 32 | 8 36 | 0 32 | 18 27 | 1 31 | 9 42 | 9 3 | 5 42 | 5 19 | 14 9 | | | n.a. |
| T 8 | 23 11 | 16 47 | 3 50 | 21 55 | 1 34 | 16 43 | 1 22 | 21 12 | 1 11 | 15 31 | 1 24 | 1 50 | 2 31 | 8 37 | 0 32 | 18 27 | 1 31 | 9 42 | 9 4 | 5 42 | 5 20 | 14 6 | | | n.a. |
| F 9 | 23 6 | 21 34 | 4 29 | 22 14 | 1 19 | 16 18 | 1 20 | 21 3 | 1 11 | 15 33 | 1 24 | 1 51 | 2 31 | 8 37 | 0 32 | 18 28 | 1 31 | 9 42 | 9 4 | 5 44 | 5 22 | 14 3 | | | n.a. |
| S 10 | 23 0 | 25 24 | 4 55 | 22 32 | 1 4 | 15 53 | 1 18 | 20 54 | 1 11 | 15 35 | 1 24 | 1 52 | 2 31 | 8 38 | 0 32 | 18 28 | 1 31 | 9 42 | 9 4 | 5 47 | 5 23 | 14 0 | | | n.a. |
| S 11 | 22 54 | 27 53 | 5 5 | 22 49 | 0 50 | 15 28 | 1 15 | 20 45 | 1 10 | 15 37 | 1 25 | 1 53 | 2 31 | 8 38 | 0 32 | 18 28 | 1 31 | 9 43 | 9 4 | 5 50 | 5 24 | 13 57 | | | n.a. |
| M12 | 22 48 | 28 38 | 4 56 | 23 6 | 0 35 | 15 3 | 1 13 | 20 36 | 1 10 | 15 38 | 1 25 | 1 54 | 2 30 | 8 38 | 0 32 | 18 29 | 1 31 | 9 43 | 9 4 | 5 54 | 5 25 | 13 54 | | | n.a. |
| T 13 | 22 41 | 27 24 | 4 27 | 23 21 | 0 21 | 14 37 | 1 11 | 20 26 | 1 10 | 15 40 | 1 25 | 1 55 | 2 30 | 8 39 | 0 32 | 18 29 | 1 31 | 9 43 | 9 4 | 5 57 | 5 27 | 13 51 | | | n.a. |
| W14 | 22 33 | 24 13 | 3 40 | 23 34 | 0 8 | 14 10 | 1 8 | 20 17 | 1 10 | 15 42 | 1 25 | 1 56 | 2 30 | 8 39 | 0 32 | 18 29 | 1 31 | 9 43 | 9 4 | 6 0 | 5 28 | 13 48 | | | n.a. |
| T 15 | 22 26 | 19 24 | 2 38 | 23 46 | 0n 5 | 13 44 | 1 5 | 20 7 | 1 10 | 15 44 | 1 26 | 1 58 | 2 30 | 8 39 | 0 32 | 18 30 | 1 31 | 9 43 | 9 4 | 6 3 | 5 29 | 13 44 | | | n.a. |
| F 16 | 22 17 | 13 25 | 1 25 | 23 56 | 0 17 | 13 17 | 1 3 | 19 57 | 1 9 | 15 46 | 1 26 | 1 59 | 2 29 | 8 40 | 0 32 | 18 30 | 1 31 | 9 43 | 9 4 | 6 4 | 5 30 | 13 41 | | | n.a. |
| S 17 | 22 9 | 6 45 | 0 8 | 24 4 | 0 29 | 12 49 | 1 0 | 19 47 | 1 9 | 15 48 | 1 26 | 2 0 | 2 29 | 8 40 | 0 32 | 18 30 | 1 31 | 9 43 | 9 5 | 6 4 | 5 32 | 13 38 | | | n.a. |
| S 18 | 22 0 | 0s 8 | 1s 9 | 24 10 | 0 40 | 12 22 | 0 57 | 19 37 | 1 9 | 15 51 | 1 26 | 2 2 | 2 29 | 8 40 | 0 32 | 18 31 | 1 31 | 9 43 | 9 5 | 6 4 | 5 33 | 13 35 | | | n.a. |
| M19 | 21 51 | 6 52 | 2 20 | 24 13 | 0 50 | 11 54 | 0 54 | 19 27 | 1 9 | 15 53 | 1 27 | 2 3 | 2 29 | 8 40 | 0 32 | 18 31 | 1 31 | 9 43 | 9 5 | 6 4 | 5 34 | 13 32 | | | n.a. |
| T 20 | 21 41 | 13 7 | 3 22 | 24 13 | 0 59 | 11 26 | 0 51 | 19 16 | 1 9 | 15 55 | 1 27 | 2 5 | 2 28 | 8 41 | 0 32 | 18 31 | 1 31 | 9 43 | 9 5 | 6 4 | 5 35 | 13 29 | | | n.a. |
| W21 | 21 31 | 18 37 | 4 10 | 24 11 | 1 8 | 10 57 | 0 48 | 19 6 | 1 8 | 15 57 | 1 27 | 2 6 | 2 28 | 8 41 | 0 32 | 18 32 | 1 31 | 9 43 | 9 5 | 6 4 | 5 37 | 13 26 | | | n.a. |
| T 22 | 21 21 | 23 7 | 4 45 | 24 6 | 1 15 | 10 28 | 0 45 | 18 55 | 1 8 | 15 59 | 1 27 | 2 8 | 2 28 | 8 41 | 0 32 | 18 32 | 1 31 | 9 43 | 9 5 | 6 5 | 5 38 | 13 22 | | | n.a. |
| F 23 | 21 10 | 26 23 | 5 4 | 23 59 | 1 22 | 10 0 | 0 42 | 18 44 | 1 8 | 16 2 | 1 28 | 2 9 | 2 28 | 8 41 | 0 32 | 18 32 | 1 31 | 9 44 | 9 5 | 6 7 | 5 39 | 13 19 | | | n.a. |
| S 24 | 20 59 | 28 15 | 5 7 | 23 48 | 1 28 | 9 30 | 0 39 | 18 33 | 1 8 | 16 4 | 1 28 | 2 11 | 2 27 | 8 41 | 0 32 | 18 32 | 1 31 | 9 44 | 9 6 | 6 10 | 5 40 | 13 16 | | | n.a. |
| S 25 | 20 47 | 28 38 | 4 56 | 23 36 | 1 33 | 9 1 | 0 35 | 18 22 | 1 8 | 16 6 | 1 28 | 2 12 | 2 27 | 8 42 | 0 32 | 18 33 | 1 31 | 9 44 | 9 6 | 6 13 | 5 41 | 13 13 | | | n.a. |
| M26 | 20 35 | 27 35 | 4 31 | 23 20 | 1 37 | 8 31 | 0 32 | 18 11 | 1 7 | 16 9 | 1 28 | 2 14 | 2 27 | 8 42 | 0 32 | 18 33 | 1 32 | 9 44 | 9 6 | 6 16 | 5 43 | 13 10 | | | n.a. |
| T 27 | 20 23 | 25 13 | 3 54 | 23 2 | 1 41 | 8 2 | 0 28 | 18 0 | 1 7 | 16 11 | 1 28 | 2 16 | 2 27 | 8 42 | 0 32 | 18 33 | 1 32 | 9 44 | 9 6 | 6 19 | 5 44 | 13 7 | | | n.a. |
| W28 | 20 11 | 21 45 | 3 7 | 22 42 | 1 44 | 7 32 | 0 25 | 17 48 | 1 7 | 16 14 | 1 29 | 2 17 | 2 26 | 8 42 | 0 32 | 18 33 | 1 32 | 9 44 | 9 6 | 6 22 | 5 45 | 13 4 | | | n.a. |
| T 29 | 19 58 | 17 25 | 2 12 | 22 20 | 1 45 | 7 2 | 0 21 | 17 37 | 1 7 | 16 16 | 1 29 | 2 19 | 2 26 | 8 42 | 0 32 | 18 34 | 1 32 | 9 44 | 9 6 | 6 24 | 5 46 | 13 0 | | | n.a. |
| F 30 | 19 44 | 12 28 | 1 11 | 21 55 | 1 47 | 6 31 | 0 17 | 17 25 | 1 6 | 16 19 | 1 29 | 2 21 | 2 26 | 8 42 | 0 32 | 18 34 | 1 32 | 9 44 | 9 6 | 6 25 | 5 48 | 12 57 | | | n.a. |
| S 31 | 19n31 | 7s 5 | 0s 8 | 21n29 | 1n47 | 6n 1 | 0n14 | 17n13 | 1n 6 | 16s21 | 1s29 | 2s22 | 2n26 | 8n42 | 0s32 | 18n34 | 1s32 | 9n44 | 9s 7 | 6s25 | 5s49 | 12s54 | | | n.a. |

Julian Day Number = 1692749.5, Delta T = 03h09m37s
Ecliptic obliquity = 23°42'25, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°08'54, Lahiri = - 5°01'53 Julian Calendar 1 July 79 BCE == Greg. Calendar 29 June 079 BCE

The year -78 astronomical counting style corresponds to year 079 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 79 BCE
# geocentric

## AUGUST 79 BCE (-78) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 25 59 | 4♌47'23 | 24♓15 | 4♌49 | 16♍35 | 16♌49 | 19°R59 | 11♎35 | 23♈25 | 28♉33 | 22♉16 | 13♓51 | 15♓21 | 0♓ 3 | n.a. | S 1 |
| M 2 | 20 29 56 | 5°45'26 | 6♈ 7 | 6°45 | 17°44 | 17°28 | 19♒51 | 11°39 | 23°R25 | 28°35 | 22°16 | 13°53 | 15°18 | 0°10 | n.a. | M 2 |
| T 3 | 20 33 52 | 6°43'31 | 18° 9 | 8°40 | 18°52 | 18° 6 | 19°44 | 11°43 | 23°25 | 28°36 | 22°17 | 13°54 | 15°15 | 0°17 | n.a. | T 3 |
| W 4 | 20 37 49 | 7°41'39 | 0♉24 | 10°34 | 20° 1 | 18°45 | 19°36 | 11°48 | 23°25 | 28°37 | 22°17 | 13°56 | 15°11 | 0°23 | n.a. | W 4 |
| T 5 | 20 41 45 | 8°39'48 | 12°58 | 12°27 | 21° 9 | 19°24 | 19°29 | 11°52 | 23°25 | 28°38 | 22°18 | 13°R56 | 15° 8 | 0°30 | n.a. | T 5 |
| F 6 | 20 45 42 | 9°38'00 | 25°55 | 14°19 | 22°18 | 20° 2 | 19°21 | 11°56 | 23°25 | 28°39 | 22°18 | 13°55 | 15° 5 | 0°37 | n.a. | F 6 |
| S 7 | 20 49 38 | 10°36'14 | 9♊18 | 16°10 | 23°26 | 20°41 | 19°13 | 12° 1 | 23°25 | 28°40 | 22°19 | 13°52 | 15° 2 | 0°43 | n.a. | S 7 |
| S 8 | 20 53 35 | 11°34'30 | 23°10 | 18° 0 | 24°34 | 21°20 | 19° 5 | 12° 5 | 23°24 | 28°41 | 22°19 | 13°48 | 14°59 | 0°50 | n.a. | S 8 |
| M 9 | 20 57 31 | 12°32'48 | 7♋30 | 19°48 | 25°43 | 21°59 | 18°57 | 12°10 | 23°24 | 28°41 | 22°20 | 13°44 | 14°56 | 0°57 | n.a. | M 9 |
| T 10 | 21 1 28 | 13°31'09 | 22°13 | 21°36 | 26°51 | 22°38 | 18°49 | 12°15 | 23°24 | 28°42 | 22°20 | 13°39 | 14°52 | 1° 3 | n.a. | T 10 |
| W11 | 21 5 25 | 14°29'31 | 7♌14 | 23°22 | 27°59 | 23°16 | 18°41 | 12°20 | 23°23 | 28°43 | 22°20 | 13°35 | 14°49 | 1°10 | n.a. | W11 |
| T 12 | 21 9 21 | 15°27'55 | 22°24 | 25° 7 | 29° 6 | 23°55 | 18°34 | 12°24 | 23°23 | 28°44 | 22°21 | 13°33 | 14°46 | 1°17 | n.a. | T 12 |
| F 13 | 21 13 18 | 16°26'21 | 7♍33 | 26°51 | 0♎14 | 24°34 | 18°26 | 12°29 | 23°22 | 28°45 | 22°21 | 13°D32 | 14°43 | 1°23 | n.a. | F 13 |
| S 14 | 21 17 14 | 17°24'49 | 22°32 | 28°33 | 1°22 | 25°13 | 18°18 | 12°34 | 23°22 | 28°46 | 22°21 | 13°32 | 14°40 | 1°30 | n.a. | S 14 |
| S 15 | 21 21 11 | 18°23'19 | 7♎13 | 0♍15 | 2°29 | 25°52 | 18°10 | 12°39 | 23°21 | 28°46 | 22°21 | 13°33 | 14°36 | 1°37 | n.a. | S 15 |
| M16 | 21 25 7 | 19°21'50 | 21°33 | 1°56 | 3°36 | 26°31 | 18° 2 | 12°44 | 23°20 | 28°47 | 22°22 | 13°34 | 14°33 | 1°43 | n.a. | M16 |
| T 17 | 21 29 4 | 20°20'23 | 5♏28 | 3°35 | 4°43 | 27°10 | 17°54 | 12°50 | 23°20 | 28°48 | 22°22 | 13°35 | 14°30 | 1°50 | n.a. | T 17 |
| W18 | 21 33 0 | 21°18'58 | 18°59 | 5°13 | 5°50 | 27°49 | 17°46 | 12°55 | 23°19 | 28°48 | 22°22 | 13°R36 | 14°27 | 1°57 | n.a. | W18 |
| T 19 | 21 36 57 | 22°17'35 | 2♐ 8 | 6°51 | 6°57 | 28°28 | 17°38 | 13° 0 | 23°18 | 28°49 | 22°22 | 13°36 | 14°24 | 2° 3 | n.a. | T 19 |
| F 20 | 21 40 53 | 23°16'13 | 14°57 | 8°27 | 8° 4 | 29° 8 | 17°30 | 13° 5 | 23°17 | 28°49 | 22°22 | 13°35 | 14°21 | 2°10 | n.a. | F 20 |
| S 21 | 21 44 50 | 24°14'54 | 27°30 | 10° 2 | 9°10 | 29°47 | 17°22 | 13°11 | 23°16 | 28°50 | 22°22 | 13°32 | 14°17 | 2°16 | n.a. | S 21 |
| S 22 | 21 48 47 | 25°13'36 | 9♑48 | 11°36 | 10°17 | 0♍26 | 17°14 | 13°16 | 23°15 | 28°50 | 22°23 | 13°30 | 14°14 | 2°23 | n.a. | S 22 |
| M23 | 21 52 43 | 26°12'20 | 21°56 | 13°10 | 11°23 | 1° 5 | 17° 6 | 13°22 | 23°14 | 28°51 | 22°23 | 13°27 | 14°11 | 2°30 | n.a. | M23 |
| T 24 | 21 56 40 | 27°11'06 | 3♒55 | 14°42 | 12°29 | 1°45 | 16°59 | 13°27 | 23°13 | 28°51 | 22°23 | 13°24 | 14° 8 | 2°36 | n.a. | T 24 |
| W25 | 22 0 36 | 28° 9'53 | 15°48 | 16°13 | 13°35 | 2°24 | 16°51 | 13°33 | 23°12 | 28°51 | 22°23 | 13°22 | 14° 5 | 2°43 | n.a. | W25 |
| T 26 | 22 4 33 | 29° 8'43 | 27°37 | 17°43 | 14°41 | 3° 3 | 16°43 | 13°39 | 23°11 | 28°52 | 22°R23 | 13°21 | 14° 2 | 2°50 | n.a. | T 26 |
| F 27 | 22 8 29 | 0♍ 7'35 | 9♓25 | 19°13 | 15°46 | 3°43 | 16°36 | 13°44 | 23°10 | 28°52 | 22°23 | 13°D20 | 13°58 | 2°56 | n.a. | F 27 |
| S 28 | 22 12 26 | 1° 6'29 | 21°13 | 20°41 | 16°51 | 4°22 | 16°28 | 13°50 | 23° 9 | 28°52 | 22°23 | 13°20 | 13°55 | 3° 3 | n.a. | S 28 |
| S 29 | 22 16 22 | 2° 5'25 | 3♈ 5 | 22° 8 | 17°56 | 5° 1 | 16°21 | 13°56 | 23° 7 | 28°53 | 22°23 | 13°21 | 13°52 | 3°10 | n.a. | S 29 |
| M30 | 22 20 19 | 3° 4'24 | 15° 2 | 23°34 | 19° 1 | 5°41 | 16°13 | 14° 2 | 23° 6 | 28°53 | 22°23 | 13°22 | 13°49 | 3°16 | n.a. | M30 |
| T 31 | 22 24 16 | 4♍ 3'24 | 27♈ 8 | 24♍59 | 20♎ 6 | 6♍20 | 16♒ 6 | 14♎ 8 | 23♈ 5 | 28♉53 | 22♉22 | 13♓23 | 13♓46 | 3♓23 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| S 1 | 19n17 | 1s27 | 0n56 | 21n 0 | 1n47 | 5n30 | 0n10 | 17n 1 | 1n 6 | 16s24 | 1s29 | 2s24 | 2n25 | 8n42 | 0s32 | 18n34 | 1s32 | 9n44 | 9s 7 | 6s25 | 5s50 | 12s51 | | | n.a. |
| M 2 | 19 3 | 4n16 | 1 59 | 20 30 | 1 46 | 5 0 | 0 6 | 16 49 | 1 6 | 16 26 | 1 30 | 2 26 | 2 25 | 8 42 | 0 32 | 18 34 | 1 32 | 9 44 | 9 7 | 6 25 | 5 51 | 12 48 | | | n.a. |
| T 3 | 18 48 | 9 54 | 2 56 | 19 59 | 1 45 | 4 29 | 0 2 | 16 37 | 1 5 | 16 29 | 1 30 | 2 28 | 2 25 | 8 42 | 0 32 | 18 35 | 1 32 | 9 44 | 9 7 | 6 24 | 5 53 | 12 44 | | | n.a. |
| W 4 | 18 33 | 15 16 | 3 47 | 19 26 | 1 43 | 3 58 | 0s 2 | 16 24 | 1 5 | 16 31 | 1 30 | 2 30 | 2 25 | 8 42 | 0 32 | 18 35 | 1 32 | 9 44 | 9 7 | 6 23 | 5 54 | 12 41 | | | n.a. |
| T 5 | 18 18 | 20 9 | 4 28 | 18 52 | 1 41 | 3 27 | 0 6 | 16 12 | 1 5 | 16 34 | 1 30 | 2 32 | 2 25 | 8 42 | 0 32 | 18 35 | 1 32 | 9 44 | 9 7 | 6 23 | 5 55 | 12 38 | | | n.a. |
| F 6 | 18 2 | 24 16 | 4 57 | 18 17 | 1 38 | 2 56 | 0 10 | 15 59 | 1 5 | 16 37 | 1 30 | 2 34 | 2 24 | 8 42 | 0 32 | 18 35 | 1 32 | 9 44 | 9 7 | 6 24 | 5 56 | 12 35 | | | n.a. |
| S 7 | 17 46 | 27 13 | 5 12 | 17 40 | 1 35 | 2 25 | 0 15 | 15 46 | 1 4 | 16 39 | 1 30 | 2 36 | 2 24 | 8 42 | 0 32 | 18 35 | 1 32 | 9 44 | 9 8 | 6 25 | 5 58 | 12 32 | | | n.a. |
| S 8 | 17 30 | 28 40 | 5 9 | 17 3 | 1 31 | 1 53 | 0 19 | 15 34 | 1 4 | 16 42 | 1 30 | 2 38 | 2 24 | 8 42 | 0 32 | 18 36 | 1 32 | 9 43 | 9 8 | 6 26 | 5 59 | 12 29 | | | n.a. |
| M 9 | 17 14 | 28 15 | 4 46 | 16 25 | 1 27 | 1 22 | 0 23 | 15 21 | 1 4 | 16 44 | 1 31 | 2 40 | 2 24 | 8 41 | 0 32 | 18 36 | 1 32 | 9 43 | 9 8 | 6 28 | 6 0 | 12 25 | | | n.a. |
| T 10 | 16 57 | 25 53 | 4 5 | 15 46 | 1 23 | 0 51 | 0 27 | 15 8 | 1 4 | 16 47 | 1 31 | 2 42 | 2 24 | 8 41 | 0 32 | 18 36 | 1 32 | 9 43 | 9 8 | 6 30 | 6 1 | 12 22 | | | n.a. |
| W11 | 16 40 | 21 40 | 3 6 | 15 6 | 1 18 | 0 20 | 0 32 | 14 54 | 1 3 | 16 50 | 1 31 | 2 44 | 2 23 | 8 41 | 0 32 | 18 36 | 1 32 | 9 43 | 9 8 | 6 31 | 6 3 | 12 19 | | | n.a. |
| T 12 | 16 23 | 15 59 | 1 54 | 14 26 | 1 13 | 0s12 | 0 36 | 14 41 | 1 3 | 16 52 | 1 31 | 2 46 | 2 23 | 8 41 | 0 32 | 18 36 | 1 32 | 9 43 | 9 8 | 6 32 | 6 4 | 12 16 | | | n.a. |
| F 13 | 16 5 | 9 20 | 0 33 | 13 45 | 1 7 | 0 43 | 0 41 | 14 28 | 1 3 | 16 55 | 1 31 | 2 48 | 2 23 | 8 41 | 0 32 | 18 36 | 1 32 | 9 43 | 9 9 | 6 33 | 6 5 | 12 13 | | | n.a. |
| S 14 | 15 47 | 2 15 | 0s49 | 13 4 | 1 2 | 1 14 | 0 45 | 14 14 | 1 2 | 16 58 | 1 31 | 2 50 | 2 23 | 8 40 | 0 32 | 18 36 | 1 32 | 9 43 | 9 9 | 6 33 | 6 6 | 12 9 | | | n.a. |
| S 15 | 15 29 | 4s50 | 2 7 | 12 23 | 0 56 | 1 46 | 0 50 | 14 1 | 1 2 | 17 0 | 1 31 | 2 52 | 2 23 | 8 40 | 0 32 | 18 36 | 1 32 | 9 43 | 9 9 | 6 32 | 6 8 | 12 6 | | | n.a. |
| M16 | 15 11 | 11 29 | 3 14 | 11 41 | 0 50 | 2 17 | 0 55 | 13 47 | 1 2 | 17 3 | 1 31 | 2 54 | 2 22 | 8 40 | 0 32 | 18 37 | 1 32 | 9 43 | 9 9 | 6 32 | 6 9 | 12 3 | | | n.a. |
| T 17 | 14 52 | 17 23 | 4 8 | 10 59 | 0 43 | 2 48 | 0 59 | 13 33 | 1 2 | 17 5 | 1 31 | 2 57 | 2 22 | 8 40 | 0 32 | 18 37 | 1 32 | 9 43 | 9 9 | 6 31 | 6 10 | 12 0 | | | n.a. |
| W18 | 14 33 | 22 15 | 4 47 | 10 16 | 0 37 | 3 19 | 1 4 | 13 19 | 1 1 | 17 8 | 1 31 | 2 59 | 2 22 | 8 39 | 0 32 | 18 37 | 1 32 | 9 43 | 9 9 | 6 31 | 6 11 | 11 57 | | | n.a. |
| T 19 | 14 14 | 25 52 | 5 9 | 9 34 | 0 30 | 3 50 | 1 9 | 13 5 | 1 1 | 17 10 | 1 31 | 3 1 | 2 22 | 8 39 | 0 32 | 18 37 | 1 32 | 9 43 | 9 9 | 6 31 | 6 13 | 11 53 | | | n.a. |
| F 20 | 13 55 | 28 4 | 5 15 | 8 51 | 0 23 | 4 21 | 1 13 | 12 51 | 1 1 | 17 13 | 1 32 | 3 3 | 2 22 | 8 39 | 0 32 | 18 37 | 1 33 | 9 42 | 9 10 | 6 32 | 6 14 | 11 50 | | | n.a. |
| S 21 | 13 35 | 28 47 | 5 6 | 8 9 | 0 16 | 4 52 | 1 18 | 12 37 | 1 0 | 17 15 | 1 32 | 3 6 | 2 21 | 8 38 | 0 32 | 18 37 | 1 33 | 9 42 | 9 10 | 6 32 | 6 15 | 11 47 | | | n.a. |
| S 22 | 13 15 | 28 3 | 4 43 | 7 26 | 0 9 | 5 23 | 1 23 | 12 23 | 1 0 | 17 18 | 1 32 | 3 8 | 2 21 | 8 38 | 0 32 | 18 37 | 1 33 | 9 42 | 9 10 | 6 34 | 6 16 | 11 44 | | | n.a. |
| M23 | 12 55 | 25 58 | 4 7 | 6 43 | 0 2 | 5 54 | 1 28 | 12 8 | 1 0 | 17 20 | 1 32 | 3 10 | 2 21 | 8 38 | 0 32 | 18 37 | 1 33 | 9 42 | 9 10 | 6 35 | 6 17 | 11 40 | | | n.a. |
| T 24 | 12 35 | 22 45 | 3 21 | 6 1 | 0s 5 | 6 24 | 1 32 | 11 54 | 1 0 | 17 23 | 1 32 | 3 13 | 2 21 | 8 37 | 0 32 | 18 37 | 1 33 | 9 42 | 9 10 | 6 36 | 6 19 | 11 37 | | | n.a. |
| W25 | 12 15 | 18 37 | 2 27 | 5 18 | 0 12 | 6 54 | 1 37 | 11 39 | 0 59 | 17 25 | 1 32 | 3 15 | 2 21 | 8 37 | 0 32 | 18 37 | 1 33 | 9 42 | 9 10 | 6 36 | 6 20 | 11 34 | | | n.a. |
| T 26 | 11 54 | 13 47 | 1 26 | 4 36 | 0 20 | 7 25 | 1 42 | 11 25 | 0 59 | 17 27 | 1 32 | 3 17 | 2 21 | 8 36 | 0 32 | 18 37 | 1 33 | 9 42 | 9 11 | 6 37 | 6 21 | 11 31 | | | n.a. |
| F 27 | 11 33 | 8 28 | 0 22 | 3 54 | 0 27 | 7 55 | 1 47 | 11 10 | 0 59 | 17 30 | 1 32 | 3 20 | 2 20 | 8 36 | 0 32 | 18 37 | 1 33 | 9 41 | 9 11 | 6 37 | 6 22 | 11 28 | | | n.a. |
| S 28 | 11 12 | 2 51 | 0n44 | 3 12 | 0 35 | 8 25 | 1 52 | 10 55 | 0 58 | 17 32 | 1 32 | 3 22 | 2 20 | 8 35 | 0 33 | 18 37 | 1 33 | 9 41 | 9 11 | 6 37 | 6 24 | 11 24 | | | n.a. |
| S 29 | 10 51 | 2n53 | 1 47 | 2 30 | 0 42 | 8 54 | 1 57 | 10 40 | 0 58 | 17 34 | 1 32 | 3 25 | 2 20 | 8 35 | 0 33 | 18 37 | 1 33 | 9 41 | 9 11 | 6 37 | 6 25 | 11 21 | | | n.a. |
| M30 | 10 29 | 8 33 | 2 47 | 1 49 | 0 50 | 9 24 | 2 2 | 10 25 | 0 58 | 17 36 | 1 32 | 3 27 | 2 20 | 8 34 | 0 33 | 18 37 | 1 33 | 9 41 | 9 11 | 6 37 | 6 26 | 11 18 | | | n.a. |
| T 31 | 10n 8 | 13n58 | 3n40 | 1n 8 | 0s58 | 9s53 | 2s 6 | 10n10 | 0n57 | 17s39 | 1s32 | 3s29 | 2n20 | 8n34 | 0s33 | 18n37 | 1s33 | 9n41 | 9s11 | 6s36 | 6s27 | 11s15 | | | n.a. |

Julian Day Number = 1692780.5, Delta T = 03h09m36s
Ecliptic obliquity = 23°42'25, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°08'50, Lahiri = - 5°01'49 Julian Calendar 1 Aug. 79 BCE == Greg. Calendar 30 July 079 BCE

The year -78 astronomical counting style corresponds to year 079 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 79 BCE
# geocentric

## SEPTEMBER 79 BCE (-78) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 22 28 12 | 5♍ 2'27 | 9♉26 | 26♍24 | 21♎11 | 7♍ 0 | 15°R59 | 14♎14 | 23°R 3 | 28♉53 | 22°R22 | 13♓24 | 13♓42 | 3♓30 | n.a. | W 1 |
| T 2 | 22 32 9 | 6° 1'33 | 22° 0 | 27°47 | 22°15 | 7°40 | 15♒52 | 14°20 | 23♈ 2 | 28°53 | 22♉22 | 13°24 | 13°39 | 3°36 | n.a. | T 2 |
| F 3 | 22 36 5 | 7° 0'41 | 4♊54 | 29° 9 | 23°19 | 8°19 | 15°45 | 14°26 | 23° 0 | 28°53 | 22°22 | 13°R25 | 13°36 | 3°43 | n.a. | F 3 |
| S 4 | 22 40 2 | 7°59'51 | 18°10 | 0♎29 | 24°23 | 8°59 | 15°38 | 14°32 | 22°59 | 28°53 | 22°22 | 13°25 | 13°33 | 3°50 | n.a. | S 4 |
| S 5 | 22 43 58 | 8°59'04 | 1♋52 | 1°49 | 25°26 | 9°38 | 15°32 | 14°38 | 22°57 | 28°R53 | 22°22 | 13°24 | 13°30 | 3°56 | n.a. | S 5 |
| M 6 | 22 47 55 | 9°58'20 | 16° 0 | 3° 7 | 26°30 | 10°18 | 15°25 | 14°45 | 22°56 | 28°53 | 22°21 | 13°24 | 13°27 | 4° 3 | n.a. | M 6 |
| T 7 | 22 51 51 | 10°57'37 | 0♌33 | 4°24 | 27°33 | 10°58 | 15°18 | 14°51 | 22°54 | 28°53 | 22°21 | 13°24 | 13°23 | 4°10 | n.a. | T 7 |
| W 8 | 22 55 48 | 11°56'57 | 15°26 | 5°40 | 28°36 | 11°38 | 15°12 | 14°57 | 22°52 | 28°53 | 22°21 | 13°23 | 13°20 | 4°16 | n.a. | W 8 |
| T 9 | 22 59 45 | 12°56'20 | 0♍33 | 6°54 | 29°38 | 12°18 | 15° 6 | 15° 4 | 22°50 | 28°53 | 22°21 | 13°23 | 13°17 | 4°23 | n.a. | T 9 |
| F 10 | 23 3 41 | 13°55'44 | 15°44 | 8° 7 | 0♏40 | 12°57 | 15° 0 | 15°10 | 22°49 | 28°53 | 22°20 | 13°23 | 13°14 | 4°29 | n.a. | F 10 |
| S 11 | 23 7 38 | 14°55'11 | 0♎52 | 9°18 | 1°42 | 13°37 | 14°54 | 15°16 | 22°47 | 28°53 | 22°20 | 13°23 | 13°11 | 4°36 | n.a. | S 11 |
| S 12 | 23 11 34 | 15°54'39 | 15°45 | 10°27 | 2°44 | 14°17 | 14°48 | 15°23 | 22°45 | 28°53 | 22°20 | 13°23 | 13° 8 | 4°43 | n.a. | S 12 |
| M13 | 23 15 31 | 16°54'10 | 0♏18 | 11°34 | 3°46 | 14°57 | 14°42 | 15°29 | 22°43 | 28°52 | 22°19 | 13°23 | 13° 4 | 4°49 | n.a. | M13 |
| T 14 | 23 19 27 | 17°53'42 | 14°26 | 12°39 | 4°47 | 15°37 | 14°37 | 15°36 | 22°41 | 28°52 | 22°19 | 13°22 | 13° 1 | 4°56 | n.a. | T 14 |
| W15 | 23 23 24 | 18°53'17 | 28° 7 | 13°41 | 5°47 | 16°17 | 14°32 | 15°42 | 22°39 | 28°52 | 22°18 | 13°22 | 12°58 | 5° 3 | n.a. | W15 |
| T 16 | 23 27 20 | 19°52'53 | 11♐21 | 14°41 | 6°48 | 16°57 | 14°27 | 15°49 | 22°37 | 28°51 | 22°18 | 13°22 | 12°55 | 5° 9 | n.a. | T 16 |
| F 17 | 23 31 17 | 20°52'31 | 24°10 | 15°39 | 7°48 | 17°38 | 14°22 | 15°56 | 22°35 | 28°51 | 22°17 | 13°D21 | 12°52 | 5°16 | n.a. | F 17 |
| S 18 | 23 35 14 | 21°52'11 | 6♑40 | 16°33 | 8°48 | 18°18 | 14°17 | 16° 2 | 22°33 | 28°50 | 22°17 | 13°22 | 12°48 | 5°23 | n.a. | S 18 |
| S 19 | 23 39 10 | 22°51'53 | 18°53 | 17°24 | 9°47 | 18°58 | 14°12 | 16° 9 | 22°31 | 28°50 | 22°16 | 13°22 | 12°45 | 5°29 | n.a. | S 19 |
| M20 | 23 43 7 | 23°51'36 | 0♒53 | 18°11 | 10°46 | 19°38 | 14° 8 | 16°16 | 22°29 | 28°49 | 22°16 | 13°23 | 12°42 | 5°36 | n.a. | M20 |
| T 21 | 23 47 3 | 24°51'22 | 12°46 | 18°54 | 11°44 | 20°18 | 14° 3 | 16°23 | 22°27 | 28°49 | 22°15 | 13°25 | 12°39 | 5°43 | n.a. | T 21 |
| W22 | 23 51 0 | 25°51'09 | 24°35 | 19°33 | 12°42 | 20°59 | 13°59 | 16°29 | 22°25 | 28°48 | 22°15 | 13°26 | 12°36 | 5°49 | n.a. | W22 |
| T 23 | 23 54 56 | 26°50'58 | 6♓22 | 20° 6 | 13°40 | 21°39 | 13°55 | 16°36 | 22°23 | 28°48 | 22°14 | 13°26 | 12°33 | 5°56 | n.a. | T 23 |
| F 24 | 23 58 53 | 27°50'49 | 18°11 | 20°34 | 14°37 | 22°19 | 13°52 | 16°43 | 22°21 | 28°47 | 22°14 | 13°R26 | 12°29 | 6° 2 | n.a. | F 24 |
| S 25 | 0 2 49 | 28°50'42 | 0♈ 5 | 20°57 | 15°34 | 23° 0 | 13°48 | 16°50 | 22°18 | 28°47 | 22°13 | 13°26 | 12°26 | 6° 9 | n.a. | S 25 |
| S 26 | 0 6 46 | 29°50'37 | 12° 5 | 21°12 | 16°30 | 23°40 | 13°45 | 16°57 | 22°16 | 28°46 | 22°12 | 13°24 | 12°23 | 6°16 | n.a. | S 26 |
| M27 | 0 10 42 | 0♎50'35 | 24°12 | 21°20 | 17°25 | 24°21 | 13°41 | 17° 4 | 22°14 | 28°45 | 22°12 | 13°22 | 12°20 | 6°22 | n.a. | M27 |
| T 28 | 0 14 39 | 1°50'34 | 6♉29 | 21°R21 | 18°21 | 25° 1 | 13°39 | 17°11 | 22°12 | 28°44 | 22°11 | 13°19 | 12°17 | 6°29 | n.a. | T 28 |
| W29 | 0 18 36 | 2°50'35 | 18°58 | 21°13 | 19°15 | 25°42 | 13°36 | 17°18 | 22° 9 | 28°44 | 22°10 | 13°16 | 12°13 | 6°36 | n.a. | W29 |
| T 30 | 0 22 32 | 3♎50'39 | 1♊40 | 20♎57 | 20♏ 9 | 26♍22 | 13♒33 | 17♎25 | 22♈ 7 | 28♉43 | 22♉10 | 13♓13 | 12♓10 | 6♓42 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| W 1 | 9n46 | 18n57 | 4n24 | 0n27 | 1s 5 | 10s22 | 2s11 | 9n55 | 0n57 | 17s41 | 1s32 | 3s32 | 2n20 | 8n33 | 0s33 | 18n37 | 1s33 | 9n41 | 9s12 | 6s36 | 6s29 | 11s11 | | | n.a. |
| T 2 | 9 24 | 23 14 | 4 56 | 0s13 | 1 13 | 10 51 | 2 16 | 9 40 | 0 57 | 17 43 | 1 32 | 3 34 | 2 19 | 8 33 | 0 33 | 18 37 | 1 33 | 9 40 | 9 12 | 6 36 | 6 30 | 11 8 | | | n.a. |
| F 3 | 9 2 | 26 30 | 5 14 | 0 53 | 1 20 | 11 20 | 2 21 | 9 25 | 0 56 | 17 45 | 1 31 | 3 37 | 2 19 | 8 32 | 0 33 | 18 37 | 1 33 | 9 40 | 9 12 | 6 35 | 6 31 | 11 5 | | | n.a. |
| S 4 | 8 40 | 28 26 | 5 17 | 1 32 | 1 28 | 11 48 | 2 26 | 9 9 | 0 56 | 17 47 | 1 31 | 3 39 | 2 19 | 8 32 | 0 33 | 18 37 | 1 33 | 9 40 | 9 12 | 6 36 | 6 32 | 11 2 | | | n.a. |
| S 5 | 8 17 | 28 43 | 5 1 | 2 11 | 1 35 | 12 17 | 2 31 | 8 54 | 0 56 | 17 49 | 1 31 | 3 42 | 2 19 | 8 31 | 0 33 | 18 37 | 1 33 | 9 40 | 9 12 | 6 36 | 6 34 | 10 58 | | | n.a. |
| M 6 | 7 55 | 27 10 | 4 28 | 2 49 | 1 42 | 12 45 | 2 35 | 8 38 | 0 55 | 17 51 | 1 31 | 3 45 | 2 19 | 8 30 | 0 33 | 18 37 | 1 33 | 9 40 | 9 12 | 6 36 | 6 35 | 10 55 | | | n.a. |
| T 7 | 7 32 | 23 47 | 3 36 | 3 27 | 1 50 | 13 12 | 2 40 | 8 23 | 0 55 | 17 53 | 1 31 | 3 47 | 2 19 | 8 30 | 0 33 | 18 37 | 1 33 | 9 39 | 9 12 | 6 36 | 6 36 | 10 52 | | | n.a. |
| W 8 | 7 9 | 18 46 | 2 29 | 4 3 | 1 57 | 13 40 | 2 45 | 8 7 | 0 55 | 17 54 | 1 31 | 3 50 | 2 19 | 8 29 | 0 33 | 18 37 | 1 33 | 9 39 | 9 13 | 6 36 | 6 37 | 10 49 | | | n.a. |
| T 9 | 6 46 | 12 30 | 1 11 | 4 40 | 2 4 | 14 7 | 2 50 | 7 52 | 0 54 | 17 56 | 1 31 | 3 52 | 2 18 | 8 28 | 0 33 | 18 37 | 1 33 | 9 39 | 9 13 | 6 36 | 6 38 | 10 45 | | | n.a. |
| F 10 | 6 23 | 5 29 | 0s13 | 5 15 | 2 10 | 14 33 | 2 54 | 7 36 | 0 54 | 17 58 | 1 31 | 3 55 | 2 18 | 8 28 | 0 33 | 18 37 | 1 33 | 9 39 | 9 13 | 6 36 | 6 40 | 10 42 | | | n.a. |
| S 11 | 6 0 | 1s48 | 1 36 | 5 49 | 2 17 | 15 0 | 2 59 | 7 20 | 0 54 | 18 0 | 1 31 | 3 57 | 2 18 | 8 27 | 0 33 | 18 37 | 1 34 | 9 39 | 9 13 | 6 36 | 6 41 | 10 39 | | | n.a. |
| S 12 | 5 37 | 8 53 | 2 50 | 6 22 | 2 23 | 15 26 | 3 4 | 7 4 | 0 53 | 18 1 | 1 31 | 4 0 | 2 18 | 8 26 | 0 33 | 18 37 | 1 34 | 9 38 | 9 13 | 6 36 | 6 42 | 10 35 | | | n.a. |
| M13 | 5 14 | 15 19 | 3 52 | 6 55 | 2 30 | 15 51 | 3 8 | 6 48 | 0 53 | 18 3 | 1 31 | 4 3 | 2 18 | 8 26 | 0 33 | 18 37 | 1 34 | 9 38 | 9 13 | 6 36 | 6 43 | 10 32 | | | n.a. |
| T 14 | 4 50 | 20 46 | 4 38 | 7 26 | 2 36 | 16 17 | 3 13 | 6 32 | 0 53 | 18 4 | 1 31 | 4 5 | 2 18 | 8 25 | 0 33 | 18 36 | 1 34 | 9 38 | 9 13 | 6 36 | 6 45 | 10 29 | | | n.a. |
| W15 | 4 27 | 24 56 | 5 7 | 7 56 | 2 41 | 16 42 | 3 17 | 6 16 | 0 52 | 18 6 | 1 30 | 4 8 | 2 18 | 8 24 | 0 33 | 18 36 | 1 34 | 9 38 | 9 14 | 6 37 | 6 46 | 10 26 | | | n.a. |
| T 16 | 4 3 | 27 38 | 5 17 | 8 24 | 2 46 | 17 6 | 3 22 | 6 0 | 0 52 | 18 7 | 1 30 | 4 11 | 2 18 | 8 23 | 0 33 | 18 36 | 1 34 | 9 37 | 9 14 | 6 37 | 6 47 | 10 22 | | | n.a. |
| F 17 | 3 39 | 28 46 | 5 12 | 8 51 | 2 51 | 17 31 | 3 26 | 5 44 | 0 51 | 18 9 | 1 30 | 4 13 | 2 18 | 8 23 | 0 33 | 18 36 | 1 34 | 9 37 | 9 14 | 6 37 | 6 48 | 10 19 | | | n.a. |
| S 18 | 3 16 | 28 24 | 4 52 | 9 16 | 2 56 | 17 54 | 3 31 | 5 28 | 0 51 | 18 10 | 1 30 | 4 16 | 2 17 | 8 22 | 0 33 | 18 36 | 1 34 | 9 37 | 9 14 | 6 37 | 6 50 | 10 16 | | | n.a. |
| S 19 | 2 52 | 26 38 | 4 19 | 9 40 | 3 0 | 18 18 | 3 35 | 5 11 | 0 51 | 18 11 | 1 30 | 4 19 | 2 17 | 8 21 | 0 33 | 18 36 | 1 34 | 9 37 | 9 14 | 6 36 | 6 51 | 10 12 | | | n.a. |
| M20 | 2 28 | 23 40 | 3 35 | 10 1 | 3 3 | 18 41 | 3 39 | 4 55 | 0 50 | 18 12 | 1 30 | 4 21 | 2 17 | 8 20 | 0 33 | 18 36 | 1 34 | 9 36 | 9 14 | 6 36 | 6 52 | 10 9 | | | n.a. |
| T 21 | 2 4 | 19 45 | 2 42 | 10 21 | 3 6 | 19 3 | 3 43 | 4 39 | 0 50 | 18 13 | 1 30 | 4 24 | 2 17 | 8 20 | 0 33 | 18 35 | 1 34 | 9 36 | 9 14 | 6 36 | 6 53 | 10 6 | | | n.a. |
| W22 | 1 40 | 15 5 | 1 43 | 10 38 | 3 8 | 19 25 | 3 47 | 4 22 | 0 50 | 18 14 | 1 29 | 4 27 | 2 17 | 8 19 | 0 33 | 18 35 | 1 34 | 9 36 | 9 15 | 6 35 | 6 54 | 10 3 | | | n.a. |
| T 23 | 1 16 | 9 53 | 0 39 | 10 52 | 3 10 | 19 47 | 3 51 | 4 6 | 0 49 | 18 15 | 1 29 | 4 30 | 2 17 | 8 18 | 0 33 | 18 35 | 1 34 | 9 36 | 9 15 | 6 35 | 6 56 | 9 59 | | | n.a. |
| F 24 | 0 52 | 4 19 | 0n26 | 11 3 | 3 10 | 20 8 | 3 55 | 3 49 | 0 49 | 18 16 | 1 29 | 4 32 | 2 17 | 8 17 | 0 33 | 18 35 | 1 34 | 9 35 | 9 15 | 6 35 | 6 57 | 9 56 | | | n.a. |
| S 25 | 0 28 | 1n25 | 1 31 | 11 11 | 3 10 | 20 29 | 3 59 | 3 33 | 0 48 | 18 17 | 1 29 | 4 35 | 2 17 | 8 16 | 0 33 | 18 35 | 1 34 | 9 35 | 9 15 | 6 35 | 6 58 | 9 53 | | | n.a. |
| S 26 | 0 4 | 7 9 | 2 32 | 11 16 | 3 8 | 20 49 | 4 2 | 3 16 | 0 48 | 18 18 | 1 29 | 4 38 | 2 17 | 8 15 | 0 33 | 18 35 | 1 34 | 9 35 | 9 15 | 6 36 | 6 59 | 9 49 | | | n.a. |
| M27 | 0s20 | 12 41 | 3 27 | 11 17 | 3 6 | 21 9 | 4 6 | 3 0 | 0 48 | 18 19 | 1 29 | 4 40 | 2 17 | 8 15 | 0 33 | 18 34 | 1 34 | 9 34 | 9 15 | 6 37 | 7 1 | 9 46 | | | n.a. |
| T 28 | 0 44 | 17 48 | 4 13 | 11 13 | 3 2 | 21 28 | 4 10 | 2 43 | 0 47 | 18 20 | 1 28 | 4 43 | 2 17 | 8 14 | 0 33 | 18 34 | 1 34 | 9 34 | 9 15 | 6 38 | 7 2 | 9 43 | | | n.a. |
| W29 | 1 9 | 22 15 | 4 47 | 11 5 | 2 57 | 21 47 | 4 13 | 2 26 | 0 47 | 18 20 | 1 28 | 4 46 | 2 17 | 8 13 | 0 33 | 18 34 | 1 34 | 9 34 | 9 15 | 6 39 | 7 3 | 9 40 | | | n.a. |
| T 30 | 1s33 | 25n46 | 5n 9 | 10s53 | 2s50 | 22s 5 | 4s16 | 2n10 | 0n46 | 18s21 | 1s28 | 4s49 | 2n16 | 8n12 | 0s33 | 18n34 | 1s34 | 9n34 | 9s16 | 6s40 | 7s 4 | 9s36 | | | n.a. |

Julian Day Number = 1692811.5, Delta T = 03h09m35s
Ecliptic obliquity = 23°42'26, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°08'45, Lahiri = - 5°01'45 Julian Calendar 1 Sept. 79 BCE == Greg. Calendar 30 Aug. 079 BCE


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# ASTRODIENST EPHEMERIS for the year 79 BCE
# geocentric

## OCTOBER 79 BCE (-78) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 0 26 29 | 4♎50'45 | 14♊38 | 20°R31 | 21♏ 2 | 27♍ 3 | 13°R31 | 17♎32 | 22°R 5 | 28°R42 | 22°R 9 | 13°R11 | 12♓ 7 | 6♓49 | n.a. | F 1 |
| S 2 | 0 30 25 | 5°50'53 | 27°53 | 19♎56 | 21°55 | 27°44 | 13♒29 | 17°39 | 22♈ 2 | 28♉41 | 22♉ 8 | 13♓10 | 12° 4 | 6°56 | n.a. | S 2 |
| S 3 | 0 34 22 | 6°51'04 | 11♋27 | 19°11 | 22°47 | 28°25 | 13°27 | 17°46 | 22° 0 | 28°40 | 22° 7 | 13°D 9 | 12° 1 | 7° 2 | n.a. | S 3 |
| M 4 | 0 38 18 | 7°51'16 | 25°21 | 18°18 | 23°39 | 29° 5 | 13°25 | 17°53 | 21°58 | 28°39 | 22° 7 | 13°10 | 11°58 | 7° 9 | n.a. | M 4 |
| T 5 | 0 42 15 | 8°51'31 | 9♌35 | 17°16 | 24°29 | 29°46 | 13°23 | 18° 0 | 21°55 | 28°38 | 22° 6 | 13°12 | 11°54 | 7°16 | n.a. | T 5 |
| W 6 | 0 46 11 | 9°51'48 | 24° 9 | 16° 7 | 25°19 | 0♎27 | 13°22 | 18° 7 | 21°53 | 28°37 | 22° 5 | 13°13 | 11°51 | 7°22 | n.a. | W 6 |
| T 7 | 0 50 8 | 10°52'07 | 8♍57 | 14°52 | 26° 9 | 1° 8 | 13°21 | 18°14 | 21°50 | 28°36 | 22° 4 | 13°R14 | 11°48 | 7°29 | n.a. | T 7 |
| F 8 | 0 54 5 | 11°52'28 | 23°54 | 13°34 | 26°57 | 1°49 | 13°20 | 18°21 | 21°48 | 28°35 | 22° 3 | 13°14 | 11°45 | 7°36 | n.a. | F 8 |
| S 9 | 0 58 1 | 12°52'51 | 8♎53 | 12°15 | 27°45 | 2°30 | 13°19 | 18°28 | 21°45 | 28°34 | 22° 2 | 13°12 | 11°42 | 7°42 | n.a. | S 9 |
| S 10 | 1 1 58 | 13°53'15 | 23°45 | 10°58 | 28°32 | 3°11 | 13°18 | 18°35 | 21°43 | 28°33 | 22° 2 | 13° 9 | 11°39 | 7°49 | n.a. | S 10 |
| M11 | 1 5 54 | 14°53'42 | 8♏21 | 9°44 | 29°18 | 3°52 | 13°18 | 18°42 | 21°40 | 28°32 | 22° 1 | 13° 4 | 11°35 | 7°55 | n.a. | M11 |
| T 12 | 1 9 51 | 15°54'10 | 22°35 | 8°36 | 0♐ 3 | 4°33 | 13°D18 | 18°49 | 21°38 | 28°31 | 22° 0 | 12°59 | 11°32 | 8° 2 | n.a. | T 12 |
| W13 | 1 13 47 | 16°54'39 | 6♐24 | 7°37 | 0°47 | 5°14 | 13°18 | 18°56 | 21°35 | 28°30 | 21°59 | 12°54 | 11°29 | 8° 9 | n.a. | W13 |
| T 14 | 1 17 44 | 17°55'11 | 19°45 | 6°47 | 1°30 | 5°55 | 13°18 | 19° 3 | 21°33 | 28°29 | 21°58 | 12°49 | 11°26 | 8°15 | n.a. | T 14 |
| F 15 | 1 21 40 | 18°55'43 | 2♑40 | 6° 8 | 2°12 | 6°36 | 13°19 | 19°10 | 21°31 | 28°27 | 21°57 | 12°46 | 11°23 | 8°22 | n.a. | F 15 |
| S 16 | 1 25 37 | 19°56'17 | 15°12 | 5°41 | 2°52 | 7°18 | 13°19 | 19°18 | 21°28 | 28°26 | 21°56 | 12°D45 | 11°19 | 8°29 | n.a. | S 16 |
| S 17 | 1 29 34 | 20°56'53 | 27°25 | 5°26 | 3°32 | 7°59 | 13°20 | 19°25 | 21°26 | 28°25 | 21°55 | 12°45 | 11°16 | 8°35 | n.a. | S 17 |
| M18 | 1 33 30 | 21°57'29 | 9♒24 | 5°D22 | 4°11 | 8°40 | 13°21 | 19°32 | 21°23 | 28°24 | 21°54 | 12°46 | 11°13 | 8°42 | n.a. | M18 |
| T 19 | 1 37 27 | 22°58'07 | 21°15 | 5°30 | 4°48 | 9°22 | 13°23 | 19°39 | 21°21 | 28°22 | 21°53 | 12°48 | 11°10 | 8°49 | n.a. | T 19 |
| W20 | 1 41 23 | 23°58'46 | 3♓ 2 | 5°47 | 5°24 | 10° 3 | 13°24 | 19°46 | 21°18 | 28°21 | 21°52 | 12°49 | 11° 7 | 8°55 | n.a. | W20 |
| T 21 | 1 45 20 | 24°59'27 | 14°49 | 6°14 | 5°58 | 10°44 | 13°26 | 19°53 | 21°16 | 28°20 | 21°51 | 12°R50 | 11° 4 | 9° 2 | n.a. | T 21 |
| F 22 | 1 49 16 | 26° 0'08 | 26°42 | 6°50 | 6°32 | 11°26 | 13°28 | 20° 0 | 21°13 | 28°18 | 21°50 | 12°49 | 11° 0 | 9° 9 | n.a. | F 22 |
| S 23 | 1 53 13 | 27° 0'51 | 8♈43 | 7°33 | 7° 3 | 12° 7 | 13°30 | 20° 7 | 21°11 | 28°17 | 21°49 | 12°46 | 10°57 | 9°15 | n.a. | S 23 |
| S 24 | 1 57 9 | 28° 1'36 | 20°53 | 8°23 | 7°33 | 12°49 | 13°32 | 20°14 | 21° 8 | 28°15 | 21°48 | 12°40 | 10°54 | 9°22 | n.a. | S 24 |
| M25 | 2 1 6 | 29° 2'22 | 3♉16 | 9°20 | 8° 2 | 13°30 | 13°35 | 20°21 | 21° 6 | 28°14 | 21°47 | 12°33 | 10°51 | 9°28 | n.a. | M25 |
| T 26 | 2 5 3 | 0♏ 3'09 | 15°51 | 10°21 | 8°29 | 14°12 | 13°37 | 20°28 | 21° 3 | 28°13 | 21°46 | 12°24 | 10°48 | 9°35 | n.a. | T 26 |
| W27 | 2 8 59 | 1° 3'58 | 28°39 | 11°27 | 8°54 | 14°54 | 13°40 | 20°35 | 21° 1 | 28°11 | 21°45 | 12°15 | 10°45 | 9°42 | n.a. | W27 |
| T 28 | 2 12 56 | 2° 4'48 | 11♊39 | 12°37 | 9°18 | 15°35 | 13°43 | 20°42 | 20°58 | 28°10 | 21°44 | 12° 6 | 10°41 | 9°48 | n.a. | T 28 |
| F 29 | 2 16 52 | 3° 5'40 | 24°51 | 13°51 | 9°39 | 16°17 | 13°47 | 20°49 | 20°56 | 28° 8 | 21°43 | 11°59 | 10°38 | 9°55 | n.a. | F 29 |
| S 30 | 2 20 49 | 4° 6'33 | 8♋15 | 15° 7 | 9°59 | 16°59 | 13°50 | 20°56 | 20°53 | 28° 7 | 21°41 | 11°53 | 10°35 | 10° 2 | n.a. | S 30 |
| S 31 | 2 24 45 | 5♏ 7'28 | 21♋51 | 16♎26 | 10♐17 | 17♎41 | 13♒54 | 21♎ 3 | 20♈51 | 28♉ 5 | 21♉40 | 11♓50 | 10♓32 | 10♓ 8 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 1s57 | 28n 1 | 5n15 | 10s35 | 2s41 | 22s23 | 4s19 | 1n53 | 0n46 | 18s21 | 1s28 | 4s51 | 2n16 | 8n11 | 0s33 | 18n34 | 1s34 | 9n33 | 9s16 | 6s41 | 7s 5 | 9s33 | | n.a. |
| S 2 | 2 21 | 28 46 | 5 5 | 10 12 | 2 31 | 22 40 | 4 22 | 1 36 | 0 45 | 18 22 | 1 28 | 4 54 | 2 16 | 8 10 | 0 33 | 18 33 | 1 34 | 9 33 | 9 16 | 6 41 | 7 7 | 9 30 | | n.a. |
| S 3 | 2 45 | 27 49 | 4 38 | 9 44 | 2 19 | 22 57 | 4 25 | 1 20 | 0 45 | 18 22 | 1 28 | 4 57 | 2 16 | 8 9 | 0 33 | 18 33 | 1 34 | 9 33 | 9 16 | 6 41 | 7 8 | 9 26 | | n.a. |
| M 4 | 3 9 | 25 8 | 3 54 | 9 10 | 2 5 | 23 13 | 4 28 | 1 3 | 0 45 | 18 23 | 1 27 | 5 0 | 2 16 | 8 8 | 0 33 | 18 33 | 1 34 | 9 32 | 9 16 | 6 41 | 7 9 | 9 23 | | n.a. |
| T 5 | 3 33 | 20 51 | 2 55 | 8 32 | 1 49 | 23 28 | 4 30 | 0 46 | 0 44 | 18 23 | 1 27 | 5 2 | 2 16 | 8 8 | 0 33 | 18 33 | 1 34 | 9 32 | 9 16 | 6 41 | 7 10 | 9 20 | | n.a. |
| W 6 | 3 57 | 15 14 | 1 43 | 7 49 | 1 32 | 23 43 | 4 33 | 0 29 | 0 44 | 18 23 | 1 27 | 5 5 | 2 16 | 8 7 | 0 33 | 18 32 | 1 35 | 9 32 | 9 16 | 6 40 | 7 12 | 9 16 | | n.a. |
| T 7 | 4 21 | 8 40 | 0 24 | 7 2 | 1 13 | 23 57 | 4 35 | 0 12 | 0 43 | 18 23 | 1 27 | 5 8 | 2 16 | 8 6 | 0 33 | 18 32 | 1 35 | 9 32 | 9 16 | 6 40 | 7 13 | 9 13 | | n.a. |
| F 8 | 4 45 | 1 33 | 0s58 | 6 14 | 0 53 | 24 11 | 4 37 | 0s 4 | 0 43 | 18 23 | 1 27 | 5 11 | 2 16 | 8 5 | 0 33 | 18 32 | 1 35 | 9 31 | 9 16 | 6 40 | 7 14 | 9 10 | | n.a. |
| S 9 | 5 9 | 5s39 | 2 16 | 5 24 | 0 33 | 24 24 | 4 39 | 0 21 | 0 42 | 18 23 | 1 26 | 5 13 | 2 16 | 8 4 | 0 33 | 18 32 | 1 35 | 9 31 | 9 16 | 6 40 | 7 15 | 9 6 | | n.a. |
| S 10 | 5 32 | 12 28 | 3 24 | 4 34 | 0 12 | 24 37 | 4 41 | 0 38 | 0 42 | 18 23 | 1 26 | 5 16 | 2 16 | 8 3 | 0 33 | 18 31 | 1 35 | 9 31 | 9 16 | 6 42 | 7 16 | 9 3 | | n.a. |
| M11 | 5 56 | 18 30 | 4 17 | 3 46 | 0n 9 | 24 49 | 4 43 | 0 55 | 0 42 | 18 23 | 1 26 | 5 19 | 2 16 | 8 2 | 0 33 | 18 31 | 1 35 | 9 30 | 9 17 | 6 44 | 7 18 | 9 0 | | n.a. |
| T 12 | 6 20 | 23 20 | 4 53 | 3 1 | 0 29 | 25 0 | 4 44 | 1 12 | 0 41 | 18 23 | 1 26 | 5 22 | 2 16 | 8 1 | 0 33 | 18 31 | 1 35 | 9 30 | 9 17 | 6 46 | 7 19 | 8 56 | | n.a. |
| W13 | 6 43 | 26 42 | 5 10 | 2 20 | 0 47 | 25 11 | 4 45 | 1 29 | 0 41 | 18 23 | 1 26 | 5 24 | 2 16 | 8 0 | 0 33 | 18 30 | 1 35 | 9 30 | 9 17 | 6 47 | 7 20 | 8 53 | | n.a. |
| T 14 | 7 6 | 28 27 | 5 10 | 1 44 | 1 5 | 25 21 | 4 46 | 1 46 | 0 40 | 18 23 | 1 25 | 5 27 | 2 16 | 7 59 | 0 33 | 18 30 | 1 35 | 9 29 | 9 17 | 6 49 | 7 21 | 8 50 | | n.a. |
| F 15 | 7 30 | 28 34 | 4 54 | 1 14 | 1 20 | 25 31 | 4 47 | 2 3 | 0 40 | 18 22 | 1 25 | 5 30 | 2 16 | 7 58 | 0 33 | 18 30 | 1 35 | 9 29 | 9 17 | 6 50 | 7 23 | 8 46 | | n.a. |
| S 16 | 7 53 | 27 12 | 4 24 | 0 51 | 1 34 | 25 40 | 4 47 | 2 20 | 0 39 | 18 22 | 1 25 | 5 32 | 2 16 | 7 57 | 0 33 | 18 30 | 1 35 | 9 29 | 9 17 | 6 51 | 7 24 | 8 43 | | n.a. |
| S 17 | 8 16 | 24 33 | 3 42 | 0 34 | 1 46 | 25 48 | 4 48 | 2 36 | 0 39 | 18 21 | 1 25 | 5 35 | 2 16 | 7 56 | 0 33 | 18 29 | 1 35 | 9 29 | 9 17 | 6 51 | 7 25 | 8 40 | | n.a. |
| M18 | 8 39 | 20 52 | 2 52 | 0 23 | 1 56 | 25 55 | 4 48 | 2 53 | 0 38 | 18 21 | 1 24 | 5 38 | 2 16 | 7 55 | 0 33 | 18 29 | 1 35 | 9 28 | 9 17 | 6 50 | 7 26 | 8 36 | | n.a. |
| T 19 | 9 2 | 16 23 | 1 55 | 0 18 | 2 5 | 26 2 | 4 47 | 3 10 | 0 38 | 18 20 | 1 24 | 5 41 | 2 16 | 7 54 | 0 33 | 18 29 | 1 35 | 9 28 | 9 17 | 6 50 | 7 27 | 8 33 | | n.a. |
| W20 | 9 24 | 11 20 | 0 53 | 0 19 | 2 11 | 26 9 | 4 47 | 3 27 | 0 37 | 18 20 | 1 24 | 5 43 | 2 16 | 7 54 | 0 33 | 18 28 | 1 35 | 9 28 | 9 17 | 6 49 | 7 29 | 8 30 | | n.a. |
| T 21 | 9 47 | 5 53 | 0n11 | 0 25 | 2 16 | 26 14 | 4 46 | 3 44 | 0 37 | 18 19 | 1 24 | 5 46 | 2 16 | 7 53 | 0 33 | 18 28 | 1 35 | 9 27 | 9 17 | 6 49 | 7 30 | 8 26 | | n.a. |
| F 22 | 10 9 | 0 11 | 1 15 | 0 36 | 2 20 | 26 19 | 4 45 | 4 1 | 0 36 | 18 18 | 1 24 | 5 49 | 2 16 | 7 52 | 0 33 | 18 28 | 1 35 | 9 27 | 9 17 | 6 49 | 7 31 | 8 23 | | n.a. |
| S 23 | 10 31 | 5n34 | 2 16 | 0 52 | 2 22 | 26 23 | 4 44 | 4 18 | 0 36 | 18 17 | 1 23 | 5 51 | 2 16 | 7 51 | 0 33 | 18 27 | 1 35 | 9 27 | 9 17 | 6 51 | 7 32 | 8 20 | | n.a. |
| S 24 | 10 53 | 11 11 | 3 11 | 1 11 | 2 23 | 26 27 | 4 42 | 4 34 | 0 35 | 18 16 | 1 23 | 5 54 | 2 16 | 7 50 | 0 33 | 18 27 | 1 35 | 9 26 | 9 17 | 6 53 | 7 34 | 8 16 | | n.a. |
| M25 | 11 15 | 16 28 | 3 58 | 1 33 | 2 23 | 26 30 | 4 40 | 4 51 | 0 35 | 18 15 | 1 23 | 5 57 | 2 16 | 7 49 | 0 33 | 18 27 | 1 35 | 9 26 | 9 17 | 6 56 | 7 35 | 8 13 | | n.a. |
| T 26 | 11 37 | 21 9 | 4 35 | 1 58 | 2 22 | 26 32 | 4 37 | 5 8 | 0 34 | 18 14 | 1 23 | 5 59 | 2 16 | 7 48 | 0 33 | 18 26 | 1 35 | 9 26 | 9 17 | 6 59 | 7 36 | 8 10 | | n.a. |
| W27 | 11 58 | 24 55 | 4 58 | 2 26 | 2 20 | 26 33 | 4 35 | 5 25 | 0 34 | 18 13 | 1 23 | 6 2 | 2 16 | 7 47 | 0 33 | 18 26 | 1 35 | 9 25 | 9 17 | 7 2 | 7 37 | 8 6 | | n.a. |
| T 28 | 12 20 | 27 30 | 5 7 | 2 56 | 2 17 | 26 34 | 4 32 | 5 41 | 0 33 | 18 12 | 1 22 | 6 5 | 2 16 | 7 46 | 0 33 | 18 26 | 1 35 | 9 25 | 9 18 | 7 6 | 7 38 | 8 3 | | n.a. |
| F 29 | 12 41 | 28 35 | 4 59 | 3 28 | 2 14 | 26 34 | 4 28 | 5 58 | 0 33 | 18 11 | 1 22 | 6 7 | 2 16 | 7 45 | 0 33 | 18 25 | 1 35 | 9 25 | 9 18 | 7 9 | 7 40 | 8 0 | | n.a. |
| S 30 | 13 2 | 28 2 | 4 35 | 4 1 | 2 10 | 26 33 | 4 24 | 6 15 | 0 32 | 18 10 | 1 22 | 6 10 | 2 16 | 7 44 | 0 33 | 18 25 | 1 35 | 9 25 | 9 18 | 7 11 | 7 41 | 7 56 | | n.a. |
| S 31 | 13s23 | 25n47 | 3n56 | 4s36 | 2n 5 | 26s31 | 4s20 | 6s31 | 0n32 | 18s 9 | 1s22 | 6s12 | 2n16 | 7n43 | 0s33 | 18n25 | 1s35 | 9n24 | 9s18 | 7s12 | 7s42 | 7s53 | | n.a. |

Julian Day Number = 1692841.5, Delta T = 03h09m35s
Ecliptic obliquity = 23°42'25, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°08'41, Lahiri = - 5°01'41 Julian Calendar 1 Oct. 79 BCE == Greg. Calendar 29 Sept. 079 BCE

The year -78 astronomical counting style corresponds to year 079 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 79 BCE
# geocentric

## NOVEMBER 79 BCE (-78) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 2 28 42 | 6♏ 8'24 | 5♌39 | 17♎47 | 10♐33 | 18♎23 | 13♒58 | 21♎10 | 20°R49 | 28°R 4 | 21°R39 | 11°D49 | 10♓29 | 10♓15 | n.a. | M 1 |
| T 2 | 2 32 38 | 7° 9'22 | 19°40 | 19°10 | 10°46 | 19° 5 | 14° 2 | 21°17 | 20♈46 | 28♉ 2 | 21♉38 | 11♓50 | 10°25 | 10°22 | n.a. | T 2 |
| W 3 | 2 36 35 | 8°10'21 | 3♍54 | 20°34 | 10°58 | 19°47 | 14° 6 | 21°24 | 20°44 | 28° 0 | 21°37 | 11°51 | 10°22 | 10°28 | n.a. | W 3 |
| T 4 | 2 40 32 | 9°11'21 | 18°18 | 21°59 | 11° 7 | 20°29 | 14°10 | 21°31 | 20°41 | 27°59 | 21°36 | 11°R51 | 10°19 | 10°35 | n.a. | T 4 |
| F 5 | 2 44 28 | 10°12'23 | 2♎50 | 23°26 | 11°14 | 21°11 | 14°15 | 21°38 | 20°39 | 27°57 | 21°35 | 11°49 | 10°16 | 10°42 | n.a. | F 5 |
| S 6 | 2 48 25 | 11°13'26 | 17°25 | 24°54 | 11°19 | 21°53 | 14°20 | 21°45 | 20°37 | 27°56 | 21°34 | 11°45 | 10°13 | 10°48 | n.a. | S 6 |
| S 7 | 2 52 21 | 12°14'30 | 1♏58 | 26°22 | 11°21 | 22°35 | 14°25 | 21°52 | 20°35 | 27°54 | 21°32 | 11°37 | 10°10 | 10°55 | n.a. | S 7 |
| M 8 | 2 56 18 | 13°15'35 | 16°21 | 27°51 | 11°R21 | 23°17 | 14°30 | 21°59 | 20°32 | 27°52 | 21°31 | 11°28 | 10° 6 | 11° 2 | n.a. | M 8 |
| T 9 | 3 0 14 | 14°16'41 | 0♐28 | 29°21 | 11°19 | 23°59 | 14°35 | 22° 5 | 20°30 | 27°51 | 21°30 | 11°17 | 10° 3 | 11° 8 | n.a. | T 9 |
| W10 | 3 4 11 | 15°17'48 | 14°15 | 0♏51 | 11°14 | 24°41 | 14°41 | 22°12 | 20°28 | 27°49 | 21°29 | 11° 6 | 10° 0 | 11°15 | n.a. | W10 |
| T 11 | 3 8 7 | 16°18'56 | 27°37 | 2°22 | 11° 7 | 25°24 | 14°47 | 22°19 | 20°26 | 27°47 | 21°28 | 10°56 | 9°57 | 11°21 | n.a. | T 11 |
| F 12 | 3 12 4 | 17°20'04 | 10♑34 | 3°52 | 10°57 | 26° 6 | 14°53 | 22°25 | 20°24 | 27°46 | 21°27 | 10°48 | 9°54 | 11°28 | n.a. | F 12 |
| S 13 | 3 16 1 | 18°21'13 | 23° 9 | 5°24 | 10°44 | 26°48 | 14°59 | 22°32 | 20°21 | 27°44 | 21°25 | 10°43 | 9°50 | 11°35 | n.a. | S 13 |
| S 14 | 3 19 57 | 19°22'22 | 5♒24 | 6°55 | 10°30 | 27°31 | 15° 5 | 22°39 | 20°19 | 27°42 | 21°24 | 10°39 | 9°47 | 11°41 | n.a. | S 14 |
| M15 | 3 23 54 | 20°23'32 | 17°25 | 8°27 | 10°12 | 28°13 | 15°11 | 22°45 | 20°17 | 27°41 | 21°23 | 10°D38 | 9°44 | 11°48 | n.a. | M15 |
| T 16 | 3 27 50 | 21°24'42 | 29°16 | 9°59 | 9°53 | 28°56 | 15°18 | 22°52 | 20°15 | 27°39 | 21°22 | 10°39 | 9°41 | 11°55 | n.a. | T 16 |
| W17 | 3 31 47 | 22°25'52 | 11♓ 3 | 11°31 | 9°31 | 29°38 | 15°25 | 22°58 | 20°13 | 27°37 | 21°21 | 10°R39 | 9°38 | 12° 1 | n.a. | W17 |
| T 18 | 3 35 43 | 23°27'03 | 22°52 | 13° 3 | 9° 7 | 0♏21 | 15°32 | 23° 5 | 20°11 | 27°36 | 21°20 | 10°38 | 9°35 | 12° 8 | n.a. | T 18 |
| F 19 | 3 39 40 | 24°28'14 | 4♈47 | 14°36 | 8°40 | 1° 3 | 15°39 | 23°11 | 20° 9 | 27°34 | 21°18 | 10°35 | 9°31 | 12°15 | n.a. | F 19 |
| S 20 | 3 43 36 | 25°29'25 | 16°54 | 16° 8 | 8°12 | 1°46 | 15°46 | 23°18 | 20° 7 | 27°32 | 21°17 | 10°30 | 9°28 | 12°21 | n.a. | S 20 |
| S 21 | 3 47 33 | 26°30'36 | 29°14 | 17°41 | 7°42 | 2°29 | 15°53 | 23°24 | 20° 5 | 27°30 | 21°16 | 10°22 | 9°25 | 12°28 | n.a. | S 21 |
| M22 | 3 51 30 | 27°31'48 | 11♉51 | 19°14 | 7°10 | 3°11 | 16° 1 | 23°30 | 20° 4 | 27°29 | 21°15 | 10°11 | 9°22 | 12°35 | n.a. | M22 |
| T 23 | 3 55 26 | 28°33'00 | 24°45 | 20°47 | 6°37 | 3°54 | 16° 9 | 23°37 | 20° 2 | 27°27 | 21°14 | 9°59 | 9°19 | 12°41 | n.a. | T 23 |
| W24 | 3 59 23 | 29°34'13 | 7♊55 | 22°21 | 6° 3 | 4°37 | 16°16 | 23°43 | 20° 0 | 27°25 | 21°13 | 9°45 | 9°16 | 12°48 | n.a. | W24 |
| T 25 | 4 3 19 | 0♐35'26 | 21°20 | 23°54 | 5°28 | 5°20 | 16°24 | 23°49 | 19°58 | 27°24 | 21°11 | 9°32 | 9°12 | 12°54 | n.a. | T 25 |
| F 26 | 4 7 16 | 1°36'39 | 4♋56 | 25°28 | 4°52 | 6° 2 | 16°33 | 23°55 | 19°57 | 27°22 | 21°10 | 9°21 | 9° 9 | 13° 1 | n.a. | F 26 |
| S 27 | 4 11 12 | 2°37'53 | 18°42 | 27° 2 | 4°15 | 6°45 | 16°41 | 24° 1 | 19°55 | 27°20 | 21° 9 | 9°12 | 9° 6 | 13° 8 | n.a. | S 27 |
| S 28 | 4 15 9 | 3°39'07 | 2♌34 | 28°36 | 3°39 | 7°28 | 16°49 | 24° 7 | 19°53 | 27°19 | 21° 8 | 9° 7 | 9° 3 | 13°14 | n.a. | S 28 |
| M29 | 4 19 6 | 4°40'22 | 16°30 | 0♐11 | 3° 2 | 8°11 | 16°58 | 24°13 | 19°52 | 27°17 | 21° 7 | 9° 4 | 9° 0 | 13°21 | n.a. | M29 |
| T 30 | 4 23 2 | 5♐41'37 | 0♍31 | 1♐46 | 2♐26 | 8♏54 | 17♒ 7 | 24♎19 | 19♈50 | 27♉15 | 21♉ 6 | 9♓ 3 | 8♓56 | 13♓28 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| M 1 | 13s43 | 22n 0 | 3n 2 | 5s12 | 2n 1 | 26s29 | 4s15 | 6s48 | 0n31 | 18s 7 | 1s21 | 6s15 | 2n16 | 7n43 | 0s33 | 18n24 | 1s35 | 9n24 | 9s18 | 7s12 | 7s43 | 7s50 | | n.a. | M 1 |
| T 2 | 14 3 | 16 55 | 1 56 | 5 48 | 1 55 | 26 26 | 4 10 | 7 5 | 0 31 | 18 6 | 1 21 | 6 18 | 2 16 | 7 42 | 0 33 | 18 24 | 1 35 | 9 24 | 9 18 | 7 12 | 7 45 | 7 46 | | n.a. | T 2 |
| W 3 | 14 23 | 10 51 | 0 43 | 6 26 | 1 50 | 26 22 | 4 4 | 7 21 | 0 30 | 18 4 | 1 21 | 6 20 | 2 16 | 7 41 | 0 33 | 18 24 | 1 35 | 9 23 | 9 18 | 7 12 | 7 46 | 7 43 | | n.a. | W 3 |
| T 4 | 14 43 | 4 9 | 0s35 | 7 3 | 1 44 | 26 17 | 3 58 | 7 38 | 0 30 | 18 3 | 1 21 | 6 23 | 2 16 | 7 40 | 0 33 | 18 23 | 1 35 | 9 23 | 9 18 | 7 12 | 7 47 | 7 40 | | n.a. | T 4 |
| F 5 | 15 3 | 2s49 | 1 50 | 7 41 | 1 38 | 26 12 | 3 51 | 7 54 | 0 29 | 18 1 | 1 21 | 6 25 | 2 16 | 7 39 | 0 33 | 18 23 | 1 35 | 9 23 | 9 18 | 7 12 | 7 48 | 7 36 | | n.a. | F 5 |
| S 6 | 15 22 | 9 39 | 2 58 | 8 20 | 1 31 | 26 5 | 3 44 | 8 10 | 0 29 | 18 0 | 1 20 | 6 28 | 2 16 | 7 38 | 0 33 | 18 22 | 1 35 | 9 23 | 9 18 | 7 14 | 7 49 | 7 33 | | n.a. | S 6 |
| S 7 | 15 41 | 15 57 | 3 55 | 8 58 | 1 25 | 25 58 | 3 37 | 8 27 | 0 28 | 17 58 | 1 20 | 6 30 | 2 16 | 7 37 | 0 33 | 18 22 | 1 35 | 9 22 | 9 18 | 7 17 | 7 51 | 7 29 | | n.a. | S 7 |
| M 8 | 16 0 | 21 18 | 4 35 | 9 37 | 1 18 | 25 50 | 3 28 | 8 43 | 0 28 | 17 56 | 1 20 | 6 33 | 2 16 | 7 36 | 0 32 | 18 22 | 1 35 | 9 22 | 9 18 | 7 21 | 7 52 | 7 26 | | n.a. | M 8 |
| T 9 | 16 18 | 25 20 | 4 58 | 10 15 | 1 11 | 25 41 | 3 20 | 8 59 | 0 27 | 17 55 | 1 20 | 6 35 | 2 16 | 7 36 | 0 32 | 18 21 | 1 35 | 9 22 | 9 18 | 7 25 | 7 53 | 7 23 | | n.a. | T 9 |
| W10 | 16 36 | 27 47 | 5 3 | 10 53 | 1 5 | 25 31 | 3 10 | 9 16 | 0 26 | 17 53 | 1 20 | 6 38 | 2 17 | 7 35 | 0 32 | 18 21 | 1 35 | 9 21 | 9 18 | 7 29 | 7 54 | 7 19 | | n.a. | W10 |
| T 11 | 16 54 | 28 32 | 4 51 | 11 32 | 0 58 | 25 20 | 3 1 | 9 32 | 0 26 | 17 51 | 1 19 | 6 40 | 2 17 | 7 34 | 0 32 | 18 21 | 1 35 | 9 21 | 9 18 | 7 33 | 7 55 | 7 16 | | n.a. | T 11 |
| F 12 | 17 12 | 27 40 | 4 24 | 12 9 | 0 51 | 25 9 | 2 50 | 9 48 | 0 25 | 17 49 | 1 19 | 6 43 | 2 17 | 7 33 | 0 32 | 18 20 | 1 35 | 9 21 | 9 18 | 7 36 | 7 57 | 7 13 | | n.a. | F 12 |
| S 13 | 17 29 | 25 23 | 3 45 | 12 47 | 0 44 | 24 56 | 2 39 | 10 4 | 0 25 | 17 47 | 1 19 | 6 45 | 2 17 | 7 32 | 0 32 | 18 20 | 1 35 | 9 21 | 9 17 | 7 38 | 7 58 | 7 9 | | n.a. | S 13 |
| S 14 | 17 46 | 21 58 | 2 56 | 13 24 | 0 37 | 24 43 | 2 28 | 10 20 | 0 24 | 17 45 | 1 19 | 6 47 | 2 17 | 7 32 | 0 32 | 18 19 | 1 35 | 9 20 | 9 17 | 7 39 | 7 59 | 7 6 | | n.a. | S 14 |
| M15 | 18 3 | 17 42 | 2 0 | 14 1 | 0 30 | 24 28 | 2 16 | 10 36 | 0 24 | 17 43 | 1 19 | 6 50 | 2 17 | 7 31 | 0 32 | 18 19 | 1 35 | 9 20 | 9 17 | 7 40 | 8 0 | 7 3 | | n.a. | M15 |
| T 16 | 18 19 | 12 48 | 1 0 | 14 37 | 0 23 | 24 13 | 2 4 | 10 51 | 0 23 | 17 41 | 1 18 | 6 52 | 2 17 | 7 30 | 0 32 | 18 19 | 1 35 | 9 20 | 9 17 | 7 40 | 8 1 | 6 59 | | n.a. | T 16 |
| W17 | 18 35 | 7 28 | 0n 2 | 15 12 | 0 16 | 23 57 | 1 51 | 11 7 | 0 22 | 17 38 | 1 18 | 6 55 | 2 17 | 7 29 | 0 32 | 18 18 | 1 35 | 9 20 | 9 17 | 7 39 | 8 3 | 6 56 | | n.a. | W17 |
| T 18 | 18 51 | 1 53 | 1 5 | 15 47 | 0 9 | 23 40 | 1 37 | 11 23 | 0 22 | 17 36 | 1 18 | 6 57 | 2 17 | 7 29 | 0 32 | 18 18 | 1 35 | 9 19 | 9 17 | 7 40 | 8 4 | 6 52 | | n.a. | T 18 |
| F 19 | 19 6 | 3n49 | 2 5 | 16 22 | 0 2 | 23 22 | 1 23 | 11 38 | 0 21 | 17 34 | 1 18 | 6 59 | 2 17 | 7 28 | 0 32 | 18 17 | 1 35 | 9 19 | 9 17 | 7 41 | 8 5 | 6 49 | | n.a. | F 19 |
| S 20 | 19 21 | 9 28 | 3 0 | 16 56 | 0s 5 | 23 3 | 1 9 | 11 54 | 0 21 | 17 31 | 1 18 | 7 1 | 2 17 | 7 27 | 0 32 | 18 17 | 1 35 | 9 19 | 9 17 | 7 43 | 8 6 | 6 46 | | n.a. | S 20 |
| S 21 | 19 35 | 14 52 | 3 47 | 17 29 | 0 12 | 22 44 | 0 55 | 12 9 | 0 20 | 17 29 | 1 17 | 7 4 | 2 17 | 7 27 | 0 32 | 18 17 | 1 35 | 9 19 | 9 17 | 7 46 | 8 8 | 6 42 | | n.a. | S 21 |
| M22 | 19 50 | 19 45 | 4 25 | 18 1 | 0 18 | 22 24 | 0 40 | 12 25 | 0 19 | 17 26 | 1 17 | 7 6 | 2 18 | 7 26 | 0 32 | 18 16 | 1 35 | 9 18 | 9 17 | 7 50 | 8 9 | 6 39 | | n.a. | M22 |
| T 23 | 20 4 | 23 51 | 4 50 | 18 33 | 0 25 | 22 4 | 0 24 | 12 40 | 0 19 | 17 24 | 1 17 | 7 8 | 2 18 | 7 25 | 0 32 | 18 16 | 1 35 | 9 18 | 9 17 | 7 55 | 8 10 | 6 36 | | n.a. | T 23 |
| W24 | 20 17 | 26 48 | 5 0 | 19 4 | 0 31 | 21 42 | 0 9 | 12 55 | 0 18 | 17 21 | 1 17 | 7 10 | 2 18 | 7 25 | 0 32 | 18 16 | 1 35 | 9 18 | 9 17 | 8 0 | 8 11 | 6 32 | | n.a. | W24 |
| T 25 | 20 30 | 28 19 | 4 54 | 19 34 | 0 38 | 21 21 | 0n 6 | 13 10 | 0 18 | 17 19 | 1 17 | 7 13 | 2 18 | 7 24 | 0 32 | 18 15 | 1 35 | 9 18 | 9 17 | 8 5 | 8 12 | 6 29 | | n.a. | T 25 |
| F 26 | 20 43 | 28 8 | 4 31 | 20 3 | 0 44 | 20 59 | 0 22 | 13 25 | 0 17 | 17 16 | 1 17 | 7 15 | 2 18 | 7 23 | 0 32 | 18 15 | 1 35 | 9 18 | 9 17 | 8 9 | 8 14 | 6 25 | | n.a. | F 26 |
| S 27 | 20 55 | 26 14 | 3 53 | 20 31 | 0 50 | 20 37 | 0 38 | 13 40 | 0 16 | 17 13 | 1 16 | 7 17 | 2 18 | 7 23 | 0 32 | 18 14 | 1 35 | 9 17 | 9 17 | 8 12 | 8 15 | 6 22 | | n.a. | S 27 |
| S 28 | 21 7 | 22 44 | 3 0 | 20 59 | 0 56 | 20 15 | 0 53 | 13 55 | 0 16 | 17 11 | 1 16 | 7 19 | 2 18 | 7 22 | 0 32 | 18 14 | 1 35 | 9 17 | 9 17 | 8 14 | 8 16 | 6 19 | | n.a. | S 28 |
| M29 | 21 19 | 17 54 | 1 56 | 21 25 | 1 1 | 19 53 | 1 9 | 14 9 | 0 15 | 17 8 | 1 16 | 7 21 | 2 18 | 7 21 | 0 32 | 18 14 | 1 35 | 9 17 | 9 16 | 8 16 | 8 17 | 6 15 | | n.a. | M29 |
| T 30 | 21s30 | 12n 7 | 0n45 | 21s50 | 1s 7 | 19s31 | 1n24 | 14s24 | 0n15 | 17s 5 | 1s16 | 7s23 | 2n18 | 7n21 | 0s32 | 18n13 | 1s35 | 9n17 | 9s16 | 8s16 | 8s18 | 6s12 | | n.a. | T 30 |

Julian Day Number = 1692872.5, Delta T = 03h09m34s
Ecliptic obliquity = 23°42'25, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°08'37, Lahiri = - 5°01'37 Julian Calendar 1 Nov. 79 BCE == Greg. Calendar 30 Oct. 079 BCE

The year -78 astronomical counting style corresponds to year 079 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 79 BCE
# geocentric

## DECEMBER 79 BCE (-78) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 4 26 59 | 6♐42'52 | 14♍35 | 3♐21 | 1°R50 | 9♏37 | 17♒16 | 24♎25 | 19°R49 | 27°R13 | 21°R 5 | 9°R 3 | 8♓53 | 13♓34 | n.a. | W 1 |
| T 2 | 4 30 55 | 7°44'08 | 28°42 | 4°56 | 1♐15 | 10°20 | 17°25 | 24°31 | 19♈47 | 27♉12 | 21♉ 3 | 9♓ 2 | 8°50 | 13°41 | n.a. | T 2 |
| F 3 | 4 34 52 | 8°45'24 | 12♎51 | 6°32 | 0°41 | 11° 4 | 17°34 | 24°37 | 19°46 | 27°10 | 21° 2 | 9° 0 | 8°47 | 13°48 | n.a. | F 3 |
| S 4 | 4 38 48 | 9°46'40 | 26°59 | 8° 8 | 0° 9 | 11°47 | 17°43 | 24°42 | 19°44 | 27° 8 | 21° 1 | 8°54 | 8°44 | 13°54 | n.a. | S 4 |
| S 5 | 4 42 45 | 10°47'56 | 11♏ 4 | 9°44 | 29♏37 | 12°30 | 17°52 | 24°48 | 19°43 | 27° 7 | 21° 0 | 8°45 | 8°41 | 14° 1 | n.a. | S 5 |
| M 6 | 4 46 41 | 11°49'12 | 25° 1 | 11°21 | 29° 8 | 13°13 | 18° 2 | 24°54 | 19°42 | 27° 5 | 20°59 | 8°34 | 8°37 | 14° 8 | n.a. | M 6 |
| T 7 | 4 50 38 | 12°50'29 | 8♐48 | 12°58 | 28°40 | 13°57 | 18°12 | 24°59 | 19°41 | 27° 4 | 20°58 | 8°21 | 8°34 | 14°14 | n.a. | T 7 |
| W 8 | 4 54 35 | 13°51'45 | 22°18 | 14°36 | 28°14 | 14°40 | 18°21 | 25° 5 | 19°39 | 27° 2 | 20°57 | 8° 8 | 8°31 | 14°21 | n.a. | W 8 |
| T 9 | 4 58 31 | 14°53'01 | 5♑30 | 16°13 | 27°51 | 15°23 | 18°31 | 25°10 | 19°38 | 27° 0 | 20°56 | 7°55 | 8°28 | 14°28 | n.a. | T 9 |
| F 10 | 5 2 28 | 15°54'16 | 18°22 | 17°52 | 27°29 | 16° 7 | 18°41 | 25°15 | 19°37 | 26°59 | 20°55 | 7°44 | 8°25 | 14°34 | n.a. | F 10 |
| S 11 | 5 6 24 | 16°55'31 | 0♒54 | 19°31 | 27°10 | 16°50 | 18°52 | 25°21 | 19°36 | 26°57 | 20°54 | 7°37 | 8°22 | 14°41 | n.a. | S 11 |
| S 12 | 5 10 21 | 17°56'46 | 13° 9 | 21°10 | 26°53 | 17°34 | 19° 2 | 25°26 | 19°35 | 26°56 | 20°53 | 7°32 | 8°18 | 14°47 | n.a. | S 12 |
| M13 | 5 14 17 | 18°57'59 | 25°10 | 22°49 | 26°39 | 18°17 | 19°12 | 25°31 | 19°34 | 26°54 | 20°52 | 7°29 | 8°15 | 14°54 | n.a. | M13 |
| T 14 | 5 18 14 | 19°59'12 | 7♓ 1 | 24°29 | 26°27 | 19° 1 | 19°23 | 25°36 | 19°33 | 26°52 | 20°51 | 7°D29 | 8°12 | 15° 1 | n.a. | T 14 |
| W15 | 5 22 11 | 21° 0'25 | 18°49 | 26° 9 | 26°18 | 19°44 | 19°33 | 25°41 | 19°32 | 26°51 | 20°50 | 7°R29 | 8° 9 | 15° 7 | n.a. | W15 |
| T 16 | 5 26 7 | 22° 1'36 | 0♈38 | 27°50 | 26°11 | 20°28 | 19°44 | 25°46 | 19°32 | 26°49 | 20°49 | 7°29 | 8° 6 | 15°14 | n.a. | T 16 |
| F 17 | 5 30 4 | 23° 2'47 | 12°34 | 29°31 | 26° 6 | 21°12 | 19°55 | 25°51 | 19°31 | 26°48 | 20°48 | 7°27 | 8° 2 | 15°21 | n.a. | F 17 |
| S 18 | 5 34 0 | 24° 3'56 | 24°42 | 1♑13 | 26°D 4 | 21°55 | 20° 6 | 25°56 | 19°30 | 26°46 | 20°47 | 7°23 | 7°59 | 15°27 | n.a. | S 18 |
| S 19 | 5 37 57 | 25° 5'05 | 7♉ 7 | 2°55 | 26° 5 | 22°39 | 20°17 | 26° 1 | 19°30 | 26°45 | 20°46 | 7°16 | 7°56 | 15°34 | n.a. | S 19 |
| M20 | 5 41 53 | 26° 6'13 | 19°52 | 4°37 | 26° 7 | 23°23 | 20°28 | 26° 5 | 19°29 | 26°44 | 20°45 | 7° 7 | 7°53 | 15°41 | n.a. | M20 |
| T 21 | 5 45 50 | 27° 7'20 | 2♊59 | 6°19 | 26°13 | 24° 6 | 20°40 | 26°10 | 19°28 | 26°42 | 20°44 | 6°56 | 7°50 | 15°47 | n.a. | T 21 |
| W22 | 5 49 46 | 28° 8'27 | 16°27 | 8° 1 | 26°20 | 24°50 | 20°51 | 26°14 | 19°28 | 26°41 | 20°43 | 6°44 | 7°47 | 15°54 | n.a. | W22 |
| T 23 | 5 53 43 | 29° 9'32 | 0♋15 | 9°43 | 26°30 | 25°34 | 21° 2 | 26°19 | 19°27 | 26°39 | 20°42 | 6°32 | 7°43 | 16° 1 | n.a. | T 23 |
| F 24 | 5 57 40 | 0♑10'37 | 14°17 | 11°26 | 26°42 | 26°18 | 21°14 | 26°23 | 19°27 | 26°38 | 20°41 | 6°22 | 7°40 | 16° 7 | n.a. | F 24 |
| S 25 | 6 1 36 | 1°11'41 | 28°31 | 13° 8 | 26°56 | 27° 2 | 21°26 | 26°28 | 19°27 | 26°37 | 20°40 | 6°14 | 7°37 | 16°14 | n.a. | S 25 |
| S 26 | 6 5 33 | 2°12'44 | 12♌49 | 14°49 | 27°13 | 27°46 | 21°37 | 26°32 | 19°26 | 26°35 | 20°40 | 6° 9 | 7°34 | 16°21 | n.a. | S 26 |
| M27 | 6 9 29 | 3°13'47 | 27° 8 | 16°30 | 27°31 | 28°30 | 21°49 | 26°36 | 19°26 | 26°34 | 20°39 | 6° 7 | 7°31 | 16°27 | n.a. | M27 |
| T 28 | 6 13 26 | 4°14'48 | 11♍24 | 18°11 | 27°51 | 29°14 | 22° 1 | 26°40 | 19°26 | 26°33 | 20°38 | 6°D 7 | 7°28 | 16°34 | n.a. | T 28 |
| W29 | 6 17 22 | 5°15'49 | 25°34 | 19°50 | 28°14 | 29°58 | 22°13 | 26°44 | 19°26 | 26°31 | 20°37 | 6° 8 | 7°24 | 16°41 | n.a. | W29 |
| T 30 | 6 21 19 | 6°16'49 | 9♎38 | 21°27 | 28°38 | 0♐42 | 22°25 | 26°48 | 19°26 | 26°30 | 20°36 | 6°R 8 | 7°21 | 16°47 | n.a. | T 30 |
| F 31 | 6 25 15 | 7♑17'49 | 23♎35 | 23♑ 3 | 29♏ 4 | 1♐26 | 22♒37 | 26♎52 | 19°D26 | 26♉29 | 20♉36 | 6♓ 7 | 7♓18 | 16♓54 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| W 1 | 21 s40 | 5n41 | 0 s29 | 22 s15 | 1 s12 | 19 s 9 | 1n39 | 14 s38 | 0n14 | 17 s 2 | 1 s16 | 7 s25 | 2n19 | 7n20 | 0 s32 | 18n13 | 1 s35 | 9n17 | 9 s16 | 8 s16 | 8 s20 | 6 s 8 | | | n.a. |
| T 2 | 21 51 | 1 s 2 | 1 42 | 22 38 | 1 18 | 18 47 | 1 54 | 14 53 | 0 13 | 16 59 | 1 15 | 7 27 | 2 19 | 7 20 | 0 32 | 18 13 | 1 35 | 9 16 | 9 16 | 8 16 | 8 21 | 6 5 | | | n.a. |
| F 3 | 22 0 | 7 42 | 2 48 | 23 0 | 1 23 | 18 26 | 2 8 | 15 7 | 0 13 | 16 56 | 1 15 | 7 29 | 2 19 | 7 19 | 0 32 | 18 12 | 1 35 | 9 16 | 9 16 | 8 17 | 8 22 | 6 2 | | | n.a. |
| S 4 | 22 10 | 13 59 | 3 44 | 23 21 | 1 27 | 18 6 | 2 22 | 15 21 | 0 12 | 16 53 | 1 15 | 7 31 | 2 19 | 7 19 | 0 32 | 18 12 | 1 35 | 9 16 | 9 16 | 8 19 | 8 23 | 5 58 | | | n.a. |
| S 5 | 22 19 | 19 31 | 4 26 | 23 40 | 1 32 | 17 46 | 2 35 | 15 35 | 0 11 | 16 50 | 1 15 | 7 33 | 2 19 | 7 18 | 0 32 | 18 11 | 1 35 | 9 16 | 9 16 | 8 23 | 8 24 | 5 55 | | | n.a. |
| M 6 | 22 27 | 23 57 | 4 52 | 23 59 | 1 36 | 17 27 | 2 48 | 15 49 | 0 11 | 16 47 | 1 15 | 7 35 | 2 19 | 7 18 | 0 32 | 18 11 | 1 35 | 9 16 | 9 16 | 8 27 | 8 26 | 5 51 | | | n.a. |
| T 7 | 22 36 | 26 57 | 5 0 | 24 16 | 1 40 | 17 9 | 3 1 | 16 2 | 0 10 | 16 44 | 1 15 | 7 37 | 2 19 | 7 17 | 0 32 | 18 11 | 1 35 | 9 16 | 9 16 | 8 32 | 8 27 | 5 48 | | | n.a. |
| W 8 | 22 43 | 28 19 | 4 51 | 24 32 | 1 44 | 16 51 | 3 13 | 16 16 | 0 9 | 16 40 | 1 14 | 7 39 | 2 20 | 7 17 | 0 32 | 18 10 | 1 35 | 9 15 | 9 16 | 8 37 | 8 28 | 5 45 | | | n.a. |
| T 9 | 22 50 | 28 2 | 4 27 | 24 46 | 1 48 | 16 35 | 3 24 | 16 30 | 0 9 | 16 37 | 1 14 | 7 41 | 2 20 | 7 17 | 0 32 | 18 10 | 1 35 | 9 15 | 9 15 | 8 42 | 8 29 | 5 41 | | | n.a. |
| F 10 | 22 57 | 26 13 | 3 49 | 24 59 | 1 51 | 16 20 | 3 35 | 16 43 | 0 8 | 16 34 | 1 14 | 7 43 | 2 20 | 7 16 | 0 32 | 18 10 | 1 35 | 9 15 | 9 15 | 8 46 | 8 30 | 5 38 | | | n.a. |
| S 11 | 23 3 | 23 7 | 3 1 | 25 11 | 1 54 | 16 5 | 3 45 | 16 56 | 0 7 | 16 31 | 1 14 | 7 44 | 2 20 | 7 16 | 0 32 | 18 9 | 1 35 | 9 15 | 9 15 | 8 49 | 8 32 | 5 34 | | | n.a. |
| S 12 | 23 9 | 19 3 | 2 5 | 25 21 | 1 56 | 15 52 | 3 55 | 17 9 | 0 7 | 16 27 | 1 14 | 7 46 | 2 20 | 7 16 | 0 32 | 18 9 | 1 35 | 9 15 | 9 15 | 8 50 | 8 33 | 5 31 | | | n.a. |
| M13 | 23 15 | 14 18 | 1 5 | 25 29 | 1 59 | 15 40 | 4 4 | 17 22 | 0 6 | 16 24 | 1 14 | 7 48 | 2 20 | 7 15 | 0 32 | 18 9 | 1 35 | 9 15 | 9 15 | 8 51 | 8 34 | 5 28 | | | n.a. |
| T 14 | 23 19 | 9 4 | 0 2 | 25 36 | 2 1 | 15 29 | 4 12 | 17 35 | 0 5 | 16 20 | 1 14 | 7 50 | 2 20 | 7 15 | 0 32 | 18 8 | 1 35 | 9 15 | 9 15 | 8 51 | 8 35 | 5 24 | | | n.a. |
| W15 | 23 24 | 3 34 | 1n 0 | 25 41 | 2 2 | 15 20 | 4 20 | 17 48 | 0 5 | 16 17 | 1 13 | 7 51 | 2 21 | 7 15 | 0 32 | 18 8 | 1 35 | 9 14 | 9 15 | 8 51 | 8 36 | 5 21 | | | n.a. |
| T 16 | 23 28 | 2n 5 | 2 0 | 25 45 | 2 3 | 15 11 | 4 27 | 18 0 | 0 4 | 16 13 | 1 13 | 7 53 | 2 21 | 7 14 | 0 31 | 18 8 | 1 35 | 9 14 | 9 14 | 8 52 | 8 38 | 5 17 | | | n.a. |
| F 17 | 23 31 | 7 42 | 2 55 | 25 46 | 2 4 | 15 4 | 4 34 | 18 12 | 0 3 | 16 10 | 1 13 | 7 55 | 2 21 | 7 14 | 0 31 | 18 7 | 1 35 | 9 14 | 9 14 | 8 52 | 8 39 | 5 14 | | | n.a. |
| S 18 | 23 34 | 13 7 | 3 43 | 25 46 | 2 4 | 14 57 | 4 40 | 18 25 | 0 3 | 16 6 | 1 13 | 7 56 | 2 21 | 7 14 | 0 31 | 18 7 | 1 35 | 9 14 | 9 14 | 8 54 | 8 40 | 5 11 | | | n.a. |
| S 19 | 23 37 | 18 9 | 4 22 | 25 45 | 2 4 | 14 52 | 4 45 | 18 37 | 0 2 | 16 2 | 1 13 | 7 58 | 2 21 | 7 14 | 0 31 | 18 7 | 1 35 | 9 14 | 9 14 | 8 56 | 8 41 | 5 7 | | | n.a. |
| M20 | 23 39 | 22 32 | 4 49 | 25 41 | 2 3 | 14 48 | 4 50 | 18 48 | 0 1 | 15 58 | 1 13 | 7 59 | 2 22 | 7 13 | 0 31 | 18 7 | 1 35 | 9 14 | 9 14 | 9 0 | 8 42 | 5 4 | | | n.a. |
| T 21 | 23 40 | 25 55 | 5 1 | 25 35 | 2 2 | 14 45 | 4 55 | 19 0 | 0 0 | 15 55 | 1 13 | 8 1 | 2 22 | 7 13 | 0 31 | 18 6 | 1 35 | 9 14 | 9 14 | 9 4 | 8 44 | 5 0 | | | n.a. |
| W22 | 23 42 | 27 57 | 4 58 | 25 28 | 2 0 | 14 43 | 4 58 | 19 12 | 0 s 0 | 15 51 | 1 12 | 8 2 | 2 22 | 7 13 | 0 31 | 18 6 | 1 35 | 9 14 | 9 13 | 9 8 | 8 45 | 4 57 | | | n.a. |
| T 23 | 23 42 | 28 19 | 4 37 | 25 19 | 1 58 | 14 42 | 5 2 | 19 23 | 0 1 | 15 47 | 1 12 | 8 4 | 2 22 | 7 13 | 0 31 | 18 6 | 1 34 | 9 14 | 9 13 | 9 13 | 8 46 | 4 54 | | | n.a. |
| F 24 | 23 42 | 26 54 | 3 59 | 25 7 | 1 55 | 14 42 | 5 5 | 19 34 | 0 2 | 15 43 | 1 12 | 8 5 | 2 22 | 7 13 | 0 31 | 18 5 | 1 34 | 9 14 | 9 13 | 9 17 | 8 47 | 4 50 | | | n.a. |
| S 25 | 23 42 | 23 43 | 3 6 | 24 54 | 1 52 | 14 42 | 5 7 | 19 45 | 0 2 | 15 39 | 1 12 | 8 7 | 2 22 | 7 13 | 0 31 | 18 5 | 1 34 | 9 14 | 9 13 | 9 19 | 8 48 | 4 47 | | | n.a. |
| S 26 | 23 41 | 19 5 | 2 1 | 24 39 | 1 47 | 14 44 | 5 9 | 19 56 | 0 3 | 15 35 | 1 12 | 8 8 | 2 23 | 7 13 | 0 31 | 18 5 | 1 34 | 9 14 | 9 13 | 9 21 | 8 50 | 4 43 | | | n.a. |
| M27 | 23 40 | 13 21 | 0 48 | 24 22 | 1 42 | 14 46 | 5 11 | 20 7 | 0 4 | 15 31 | 1 12 | 8 9 | 2 23 | 7 13 | 0 31 | 18 5 | 1 34 | 9 14 | 9 13 | 9 22 | 8 51 | 4 40 | | | n.a. |
| T 28 | 23 38 | 6 56 | 0 s28 | 24 3 | 1 37 | 14 50 | 5 12 | 20 17 | 0 5 | 15 27 | 1 12 | 8 11 | 2 23 | 7 13 | 0 31 | 18 4 | 1 34 | 9 14 | 9 12 | 9 22 | 8 52 | 4 37 | | | n.a. |
| W29 | 23 36 | 0 13 | 1 42 | 23 43 | 1 30 | 14 54 | 5 13 | 20 27 | 0 5 | 15 23 | 1 12 | 8 12 | 2 23 | 7 12 | 0 31 | 18 4 | 1 34 | 9 14 | 9 12 | 9 22 | 8 53 | 4 33 | | | n.a. |
| T 30 | 23 33 | 6 s27 | 2 49 | 23 20 | 1 23 | 14 58 | 5 14 | 20 38 | 0 6 | 15 19 | 1 12 | 8 13 | 2 23 | 7 12 | 0 31 | 18 4 | 1 34 | 9 14 | 9 12 | 9 22 | 8 54 | 4 30 | | | n.a. |
| F 31 | 23 s30 | 12 s45 | 3 s46 | 22 s56 | 1 s15 | 15 s 4 | 5n14 | 20 s47 | 0 s 7 | 15 s15 | 1 s11 | 8 s14 | 2n24 | 7n13 | 0 s31 | 18n 4 | 1 s34 | 9n14 | 9 s12 | 9 s22 | 8 s56 | 4 s26 | | | n.a. |

Julian Day Number = 1692902.5, Delta T = 03h09m33s
Ecliptic obliquity = 23°42'24, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°08'33, Lahiri = - 5°01'33 Julian Calendar 1 Dec. 79 BCE == Greg. Calendar 29 Nov. 079 BCE

The year -78 astronomical counting style corresponds to year 079 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 78 BCE
# geocentric

## JANUARY 78 BCE (-77) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 29 12 | 8♑18'47 | 7♏24 | 24♑37 | 29♏31 | 2♐11 | 22♒50 | 26♎55 | 19♈26 | 26°R28 | 20°R35 | 6°R 3 | 7♓15 | 17♓ 0 | n.a. | S 1 |
| S 2 | 6 33 9 | 9°19'45 | 21° 5 | 26° 7 | 0♐ 1 | 2°55 | 23° 2 | 26°59 | 19°26 | 26♉27 | 20♉34 | 5♓57 | 7°12 | 17° 7 | n.a. | S 2 |
| M 3 | 6 37 5 | 10°20'42 | 4♐36 | 27°35 | 0°31 | 3°39 | 23°15 | 27° 3 | 19°26 | 26°25 | 20°33 | 5°49 | 7° 8 | 17°14 | n.a. | M 3 |
| T 4 | 6 41 2 | 11°21'38 | 17°55 | 28°58 | 1° 4 | 4°23 | 23°27 | 27° 6 | 19°26 | 26°24 | 20°33 | 5°39 | 7° 5 | 17°20 | n.a. | T 4 |
| W 5 | 6 44 58 | 12°22'33 | 1♑ 2 | 0♒18 | 1°37 | 5° 8 | 23°40 | 27° 9 | 19°26 | 26°23 | 20°32 | 5°29 | 7° 2 | 17°27 | n.a. | W 5 |
| T 6 | 6 48 55 | 13°23'26 | 13°54 | 1°31 | 2°13 | 5°52 | 23°52 | 27°13 | 19°27 | 26°22 | 20°31 | 5°19 | 6°59 | 17°34 | n.a. | T 6 |
| F 7 | 6 52 51 | 14°24'19 | 26°31 | 2°39 | 2°49 | 6°36 | 24° 5 | 27°16 | 19°27 | 26°21 | 20°31 | 5°11 | 6°56 | 17°40 | n.a. | F 7 |
| S 8 | 6 56 48 | 15°25'10 | 8♒54 | 3°40 | 3°27 | 7°21 | 24°18 | 27°19 | 19°27 | 26°20 | 20°30 | 5° 6 | 6°53 | 17°47 | n.a. | S 8 |
| S 9 | 7 0 45 | 16°25'59 | 21° 3 | 4°34 | 4° 6 | 8° 5 | 24°31 | 27°22 | 19°28 | 26°19 | 20°30 | 5° 2 | 6°49 | 17°54 | n.a. | S 9 |
| M10 | 7 4 41 | 17°26'47 | 3♓ 2 | 5°19 | 4°46 | 8°50 | 24°44 | 27°25 | 19°28 | 26°18 | 20°29 | 5°D 1 | 6°46 | 18° 0 | n.a. | M10 |
| T 11 | 7 8 38 | 18°27'33 | 14°52 | 5°55 | 5°27 | 9°34 | 24°57 | 27°28 | 19°29 | 26°17 | 20°28 | 5° 1 | 6°43 | 18° 7 | n.a. | T 11 |
| W12 | 7 12 34 | 19°28'17 | 26°40 | 6°21 | 6°10 | 10°19 | 25°10 | 27°30 | 19°30 | 26°16 | 20°28 | 5° 3 | 6°40 | 18°14 | n.a. | W12 |
| T 13 | 7 16 31 | 20°29'00 | 8♈28 | 6°38 | 6°53 | 11° 3 | 25°23 | 27°33 | 19°30 | 26°16 | 20°27 | 5° 4 | 6°37 | 18°20 | n.a. | T 13 |
| F 14 | 7 20 27 | 21°29'40 | 20°23 | 6°R43 | 7°38 | 11°48 | 25°36 | 27°36 | 19°31 | 26°15 | 20°27 | 5°R 5 | 6°34 | 18°27 | n.a. | F 14 |
| S 15 | 7 24 24 | 22°30'19 | 2♉30 | 6°39 | 8°23 | 12°33 | 25°49 | 27°38 | 19°32 | 26°14 | 20°26 | 5° 4 | 6°30 | 18°34 | n.a. | S 15 |
| S 16 | 7 28 20 | 23°30'57 | 14°54 | 6°23 | 9°10 | 13°17 | 26° 3 | 27°40 | 19°32 | 26°13 | 20°26 | 5° 2 | 6°27 | 18°40 | n.a. | S 16 |
| M17 | 7 32 17 | 24°31'32 | 27°39 | 5°57 | 9°57 | 14° 2 | 26°16 | 27°43 | 19°33 | 26°12 | 20°25 | 4°58 | 6°24 | 18°47 | n.a. | M17 |
| T 18 | 7 36 14 | 25°32'06 | 10♊49 | 5°22 | 10°45 | 14°47 | 26°30 | 27°45 | 19°34 | 26°12 | 20°25 | 4°52 | 6°21 | 18°53 | n.a. | T 18 |
| W19 | 7 40 10 | 26°32'38 | 24°23 | 4°38 | 11°34 | 15°31 | 26°43 | 27°47 | 19°35 | 26°11 | 20°25 | 4°46 | 6°18 | 19° 0 | n.a. | W19 |
| T 20 | 7 44 7 | 27°33'08 | 8♋23 | 3°46 | 12°23 | 16°16 | 26°57 | 27°49 | 19°36 | 26°10 | 20°24 | 4°40 | 6°14 | 19° 7 | n.a. | T 20 |
| F 21 | 7 48 3 | 28°33'36 | 22°43 | 2°48 | 13°14 | 17° 1 | 27°10 | 27°51 | 19°37 | 26°10 | 20°24 | 4°34 | 6°11 | 19°13 | n.a. | F 21 |
| S 22 | 7 52 0 | 29°34'02 | 7♌20 | 1°46 | 14° 5 | 17°46 | 27°24 | 27°53 | 19°38 | 26° 9 | 20°24 | 4°30 | 6° 8 | 19°20 | n.a. | S 22 |
| S 23 | 7 55 56 | 0♒34'27 | 22° 5 | 0°41 | 14°57 | 18°30 | 27°37 | 27°54 | 19°40 | 26° 9 | 20°23 | 4°28 | 6° 5 | 19°27 | n.a. | S 23 |
| M24 | 7 59 53 | 1°34'50 | 6♍51 | 29♑34 | 15°50 | 19°15 | 27°51 | 27°56 | 19°41 | 26° 8 | 20°23 | 4°D27 | 6° 2 | 19°33 | n.a. | M24 |
| T 25 | 8 3 49 | 2°35'11 | 21°32 | 28°28 | 16°43 | 20° 0 | 28° 5 | 27°57 | 19°42 | 26° 8 | 20°23 | 4°28 | 5°59 | 19°40 | n.a. | T 25 |
| W26 | 8 7 46 | 3°35'31 | 6♎ 2 | 27°24 | 17°37 | 20°45 | 28°19 | 27°59 | 19°43 | 26° 7 | 20°22 | 4°30 | 5°55 | 19°47 | n.a. | W26 |
| T 27 | 8 11 43 | 4°35'49 | 20°18 | 26°23 | 18°31 | 21°30 | 28°33 | 28° 0 | 19°45 | 26° 7 | 20°22 | 4°31 | 5°52 | 19°53 | n.a. | T 27 |
| F 28 | 8 15 39 | 5°36'06 | 4♏18 | 25°27 | 19°26 | 22°15 | 28°47 | 28° 1 | 19°46 | 26° 6 | 20°22 | 4°R32 | 5°49 | 20° 0 | n.a. | F 28 |
| S 29 | 8 19 36 | 6°36'21 | 18° 2 | 24°37 | 20°22 | 23° 0 | 29° 0 | 28° 2 | 19°48 | 26° 6 | 20°22 | 4°31 | 5°46 | 20° 7 | n.a. | S 29 |
| S 30 | 8 23 32 | 7°36'35 | 1♐30 | 23°52 | 21°18 | 23°45 | 29°14 | 28° 3 | 19°49 | 26° 6 | 20°22 | 4°29 | 5°43 | 20°13 | n.a. | S 30 |
| M31 | 8 27 29 | 8♒36'47 | 14♐42 | 23♑14 | 22♐15 | 24♐30 | 29♒28 | 28♎ 4 | 19♈51 | 26♉ 5 | 20♉22 | 4♓26 | 5♓40 | 20♓20 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23s27 | 18s21 | 4s28 | 22s31 | 1s 6 | 15s10 | 5n14 | 20s57 | 0s 8 | 15s11 | 1s11 | 8s15 | 2n24 | 7n13 | 0s31 | 18n 3 | 1s34 | 9n14 | 9s12 | 9s24 | 8s57 | 4s23 | | n.a. |
| S 2 | 23 22 | 22 58 | 4 55 | 22 5 | 0 56 | 15 16 | 5 14 | 21 7 | 0 8 | 15 7 | 1 11 | 8 17 | 2 24 | 7 13 | 0 31 | 18 3 | 1 34 | 9 14 | 9 11 | 9 26 | 8 58 | 4 20 | | n.a. |
| M 3 | 23 18 | 26 17 | 5 5 | 21 37 | 0 45 | 15 23 | 5 13 | 21 16 | 0 9 | 15 2 | 1 11 | 8 18 | 2 24 | 7 13 | 0 31 | 18 3 | 1 34 | 9 14 | 9 11 | 9 29 | 8 59 | 4 16 | | n.a. |
| T 4 | 23 13 | 28 6 | 4 58 | 21 8 | 0 34 | 15 31 | 5 12 | 21 25 | 0 10 | 14 58 | 1 11 | 8 19 | 2 24 | 7 13 | 0 31 | 18 3 | 1 34 | 9 14 | 9 11 | 9 33 | 9 0 | 4 13 | | n.a. |
| W 5 | 23 7 | 28 18 | 4 36 | 20 39 | 0 21 | 15 38 | 5 11 | 21 34 | 0 11 | 14 54 | 1 11 | 8 20 | 2 25 | 7 13 | 0 31 | 18 2 | 1 34 | 9 14 | 9 11 | 9 36 | 9 1 | 4 9 | | n.a. |
| T 6 | 23 1 | 26 57 | 4 0 | 20 10 | 0 8 | 15 47 | 5 9 | 21 43 | 0 11 | 14 49 | 1 11 | 8 21 | 2 25 | 7 13 | 0 31 | 18 2 | 1 34 | 9 14 | 9 11 | 9 40 | 9 3 | 4 6 | | n.a. |
| F 7 | 22 55 | 24 13 | 3 12 | 19 41 | 0n 7 | 15 55 | 5 8 | 21 51 | 0 12 | 14 45 | 1 11 | 8 22 | 2 25 | 7 13 | 0 31 | 18 2 | 1 34 | 9 14 | 9 10 | 9 43 | 9 4 | 4 2 | | n.a. |
| S 8 | 22 48 | 20 25 | 2 16 | 19 12 | 0 22 | 16 4 | 5 6 | 21 59 | 0 13 | 14 41 | 1 11 | 8 23 | 2 25 | 7 13 | 0 31 | 18 2 | 1 34 | 9 14 | 9 10 | 9 45 | 9 5 | 3 59 | | n.a. |
| S 9 | 22 41 | 15 49 | 1 15 | 18 44 | 0 37 | 16 14 | 5 4 | 22 8 | 0 14 | 14 36 | 1 11 | 8 23 | 2 25 | 7 14 | 0 31 | 18 2 | 1 34 | 9 14 | 9 10 | 9 46 | 9 6 | 3 56 | | n.a. |
| M10 | 22 33 | 10 40 | 0 11 | 18 17 | 0 54 | 16 23 | 5 1 | 22 15 | 0 14 | 14 32 | 1 10 | 8 24 | 2 26 | 7 14 | 0 31 | 18 2 | 1 34 | 9 14 | 9 10 | 9 47 | 9 7 | 3 52 | | n.a. |
| T 11 | 22 25 | 5 12 | 0n53 | 17 52 | 1 10 | 16 33 | 4 59 | 22 23 | 0 15 | 14 27 | 1 10 | 8 25 | 2 26 | 7 14 | 0 31 | 18 1 | 1 34 | 9 14 | 9 10 | 9 46 | 9 9 | 3 49 | | n.a. |
| W12 | 22 17 | 0n24 | 1 55 | 17 29 | 1 28 | 16 43 | 4 56 | 22 30 | 0 16 | 14 23 | 1 10 | 8 26 | 2 26 | 7 14 | 0 31 | 18 1 | 1 34 | 9 14 | 9 9 | 9 46 | 9 10 | 3 45 | | n.a. |
| T 13 | 22 8 | 6 1 | 2 51 | 17 8 | 1 45 | 16 53 | 4 53 | 22 38 | 0 17 | 14 18 | 1 10 | 8 27 | 2 26 | 7 15 | 0 31 | 18 1 | 1 34 | 9 14 | 9 9 | 9 45 | 9 11 | 3 42 | | n.a. |
| F 14 | 21 58 | 11 27 | 3 41 | 16 50 | 2 2 | 17 3 | 4 50 | 22 45 | 0 18 | 14 14 | 1 10 | 8 27 | 2 27 | 7 15 | 0 31 | 18 1 | 1 33 | 9 14 | 9 9 | 9 45 | 9 12 | 3 39 | | n.a. |
| S 15 | 21 48 | 16 34 | 4 22 | 16 35 | 2 19 | 17 14 | 4 47 | 22 51 | 0 18 | 14 9 | 1 10 | 8 28 | 2 27 | 7 15 | 0 30 | 18 1 | 1 33 | 9 14 | 9 9 | 9 45 | 9 13 | 3 35 | | n.a. |
| S 16 | 21 38 | 21 7 | 4 52 | 16 23 | 2 35 | 17 24 | 4 44 | 22 58 | 0 19 | 14 4 | 1 10 | 8 29 | 2 27 | 7 16 | 0 30 | 18 1 | 1 33 | 9 14 | 9 8 | 9 46 | 9 15 | 3 32 | | n.a. |
| M17 | 21 27 | 24 51 | 5 8 | 16 15 | 2 50 | 17 34 | 4 40 | 23 4 | 0 20 | 14 0 | 1 10 | 8 29 | 2 27 | 7 16 | 0 30 | 18 1 | 1 33 | 9 14 | 9 8 | 9 48 | 9 16 | 3 28 | | n.a. |
| T 18 | 21 16 | 27 24 | 5 9 | 16 10 | 3 4 | 17 45 | 4 36 | 23 10 | 0 21 | 13 55 | 1 10 | 8 30 | 2 27 | 7 16 | 0 30 | 18 0 | 1 33 | 9 15 | 9 8 | 9 50 | 9 17 | 3 25 | | n.a. |
| W19 | 21 5 | 28 28 | 4 53 | 16 8 | 3 17 | 17 55 | 4 33 | 23 16 | 0 22 | 13 50 | 1 10 | 8 30 | 2 28 | 7 17 | 0 30 | 18 0 | 1 33 | 9 15 | 9 8 | 9 52 | 9 18 | 3 21 | | n.a. |
| T 20 | 20 53 | 27 45 | 4 19 | 16 10 | 3 27 | 18 6 | 4 29 | 23 22 | 0 22 | 13 46 | 1 10 | 8 31 | 2 28 | 7 17 | 0 30 | 18 0 | 1 33 | 9 15 | 9 8 | 9 54 | 9 19 | 3 18 | | n.a. |
| F 21 | 20 41 | 25 11 | 3 28 | 16 14 | 3 36 | 18 16 | 4 25 | 23 27 | 0 23 | 13 41 | 1 10 | 8 31 | 2 28 | 7 18 | 0 30 | 18 0 | 1 33 | 9 15 | 9 7 | 9 57 | 9 20 | 3 15 | | n.a. |
| S 22 | 20 28 | 20 57 | 2 23 | 16 22 | 3 43 | 18 26 | 4 21 | 23 32 | 0 24 | 13 36 | 1 10 | 8 32 | 2 28 | 7 18 | 0 30 | 18 0 | 1 33 | 9 15 | 9 7 | 9 58 | 9 22 | 3 11 | | n.a. |
| S 23 | 20 15 | 15 22 | 1 7 | 16 32 | 3 48 | 18 36 | 4 16 | 23 37 | 0 25 | 13 31 | 1 10 | 8 32 | 2 29 | 7 19 | 0 30 | 18 0 | 1 33 | 9 15 | 9 7 | 9 59 | 9 23 | 3 8 | | n.a. |
| M24 | 20 2 | 8 54 | 0s13 | 16 44 | 3 50 | 18 46 | 4 12 | 23 41 | 0 26 | 13 26 | 1 9 | 8 33 | 2 29 | 7 19 | 0 30 | 18 0 | 1 33 | 9 15 | 9 7 | 9 59 | 9 24 | 3 4 | | n.a. |
| T 25 | 19 48 | 1 59 | 1 32 | 16 57 | 3 50 | 18 56 | 4 8 | 23 46 | 0 26 | 13 21 | 1 9 | 8 33 | 2 29 | 7 20 | 0 30 | 18 0 | 1 33 | 9 16 | 9 6 | 9 59 | 9 25 | 3 1 | | n.a. |
| W26 | 19 34 | 4s56 | 2 44 | 17 12 | 3 47 | 19 5 | 4 3 | 23 50 | 0 27 | 13 17 | 1 9 | 8 33 | 2 29 | 7 20 | 0 30 | 18 0 | 1 33 | 9 16 | 9 6 | 9 58 | 9 26 | 2 57 | | n.a. |
| T 27 | 19 20 | 11 29 | 3 45 | 17 28 | 3 43 | 19 15 | 3 59 | 23 54 | 0 28 | 13 12 | 1 9 | 8 33 | 2 29 | 7 21 | 0 30 | 18 0 | 1 33 | 9 16 | 9 6 | 9 58 | 9 28 | 2 54 | | n.a. |
| F 28 | 19 5 | 17 21 | 4 31 | 17 44 | 3 37 | 19 24 | 3 54 | 23 57 | 0 29 | 13 7 | 1 9 | 8 34 | 2 30 | 7 21 | 0 30 | 18 0 | 1 33 | 9 16 | 9 6 | 9 57 | 9 29 | 2 51 | | n.a. |
| S 29 | 18 50 | 22 12 | 5 1 | 18 0 | 3 29 | 19 33 | 3 49 | 24 1 | 0 30 | 13 2 | 1 9 | 8 34 | 2 30 | 7 22 | 0 30 | 18 0 | 1 33 | 9 16 | 9 5 | 9 58 | 9 30 | 2 47 | | n.a. |
| S 30 | 18 34 | 25 48 | 5 13 | 18 17 | 3 20 | 19 41 | 3 44 | 24 4 | 0 31 | 12 57 | 1 9 | 8 34 | 2 30 | 7 22 | 0 30 | 18 0 | 1 33 | 9 16 | 9 5 | 9 58 | 9 31 | 2 44 | | n.a. |
| M31 | 18s19 | 27s56 | 5s 9 | 18s34 | 3n10 | 19s49 | 3n40 | 24s 7 | 0s31 | 12s52 | 1s 9 | 8s34 | 2n30 | 7n23 | 0s30 | 18n 0 | 1s33 | 9n17 | 9s 5 | 9s59 | 9s32 | 2s40 | | n.a. |

Julian Day Number = 1692933.5, Delta T = 03h09m32s
Ecliptic obliquity = 23°42'24, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°08'29, Lahiri = - 5°01'28 Julian Calendar 1 Jan. 78 BCE == Greg. Calendar 30 Dec. 079 BCE

The year -77 astronomical counting style corresponds to year 078 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 78 BCE
# geocentric

## FEBRUARY 78 BCE (-77) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 31 25 | 9♒36'58 | 27♐39 | 22°R44 | 23♐12 | 25♐15 | 29♒42 | 28♎ 5 | 19♈52 | 26°R 5 | 20°R21 | 4°R23 | 5♓36 | 20♓27 | n.a. | T 1 |
| W 2 | 8 35 22 | 10°37'06 | 10♑23 | 22♑20 | 24°10 | 26° 0 | 29°57 | 28° 6 | 19°54 | 26♉ 5 | 20♉21 | 4♓19 | 5°33 | 20°33 | n.a. | W 2 |
| T 3 | 8 39 18 | 11°37'13 | 22°54 | 22° 3 | 25° 8 | 26°45 | 0♓11 | 28° 6 | 19°56 | 26° 5 | 20°21 | 4°15 | 5°30 | 20°40 | n.a. | T 3 |
| F 4 | 8 43 15 | 12°37'18 | 5♒14 | 21°53 | 26° 6 | 27°30 | 0°25 | 28° 7 | 19°57 | 26° 5 | 20°21 | 4°12 | 5°27 | 20°47 | n.a. | F 4 |
| S 5 | 8 47 12 | 13°37'21 | 17°24 | 21°D50 | 27° 5 | 28°16 | 0°39 | 28° 7 | 19°59 | 26° 4 | 20°21 | 4°10 | 5°24 | 20°53 | n.a. | S 5 |
| S 6 | 8 51 8 | 14°37'22 | 29°24 | 21°53 | 28° 5 | 29° 1 | 0°53 | 28° 7 | 20° 1 | 26° 4 | 20°D21 | 4°D 9 | 5°20 | 21° 0 | n.a. | S 6 |
| M 7 | 8 55 5 | 15°37'21 | 11♓17 | 22° 2 | 29° 4 | 29°46 | 1° 7 | 28° 7 | 20° 3 | 26° 4 | 20°21 | 4° 9 | 5°17 | 21° 6 | n.a. | M 7 |
| T 8 | 8 59 1 | 16°37'17 | 23° 6 | 22°17 | 0♑ 4 | 0♑31 | 1°22 | 28°R 7 | 20° 5 | 26°D 4 | 20°21 | 4°10 | 5°14 | 21°13 | n.a. | T 8 |
| W 9 | 9 2 58 | 17°37'12 | 4♈53 | 22°38 | 1° 5 | 1°16 | 1°36 | 28° 7 | 20° 7 | 26° 4 | 20°21 | 4°11 | 5°11 | 21°20 | n.a. | W 9 |
| T 10 | 9 6 54 | 18°37'04 | 16°42 | 23° 3 | 2° 6 | 2° 2 | 1°50 | 28° 7 | 20° 9 | 26° 4 | 20°21 | 4°13 | 5° 8 | 21°26 | n.a. | T 10 |
| F 11 | 9 10 51 | 19°36'54 | 28°37 | 23°33 | 3° 7 | 2°47 | 2° 5 | 28° 7 | 20°11 | 26° 4 | 20°22 | 4°14 | 5° 5 | 21°33 | n.a. | F 11 |
| S 12 | 9 14 47 | 20°36'42 | 10♉43 | 24° 8 | 4° 8 | 3°32 | 2°19 | 28° 7 | 20°13 | 26° 5 | 20°22 | 4°15 | 5° 1 | 21°40 | n.a. | S 12 |
| S 13 | 9 18 44 | 21°36'27 | 23° 4 | 24°47 | 5°10 | 4°17 | 2°33 | 28° 6 | 20°15 | 26° 5 | 20°22 | 4°R15 | 4°58 | 21°46 | n.a. | S 13 |
| M14 | 9 22 40 | 22°36'10 | 5♊45 | 25°30 | 6°12 | 5° 3 | 2°48 | 28° 6 | 20°17 | 26° 5 | 20°22 | 4°15 | 4°55 | 21°53 | n.a. | M14 |
| T 15 | 9 26 37 | 23°35'51 | 18°49 | 26°16 | 7°14 | 5°48 | 3° 2 | 28° 5 | 20°19 | 26° 5 | 20°22 | 4°14 | 4°52 | 22° 0 | n.a. | T 15 |
| W16 | 9 30 34 | 24°35'29 | 2♋19 | 27° 6 | 8°17 | 6°33 | 3°16 | 28° 4 | 20°22 | 26° 5 | 20°22 | 4°13 | 4°49 | 22° 6 | n.a. | W16 |
| T 17 | 9 34 30 | 25°35'05 | 16°17 | 27°59 | 9°20 | 7°19 | 3°31 | 28° 4 | 20°24 | 26° 6 | 20°23 | 4°11 | 4°46 | 22°13 | n.a. | T 17 |
| F 18 | 9 38 27 | 26°34'39 | 0♌40 | 28°55 | 10°23 | 8° 4 | 3°45 | 28° 3 | 20°26 | 26° 6 | 20°23 | 4°11 | 4°42 | 22°20 | n.a. | F 18 |
| S 19 | 9 42 23 | 27°34'10 | 15°25 | 29°54 | 11°27 | 8°49 | 4° 0 | 28° 2 | 20°29 | 26° 6 | 20°23 | 4°10 | 4°39 | 22°26 | n.a. | S 19 |
| S 20 | 9 46 20 | 28°33'39 | 0♍25 | 0♒55 | 12°30 | 9°35 | 4°14 | 28° 0 | 20°31 | 26° 7 | 20°24 | 4°D10 | 4°36 | 22°33 | n.a. | S 20 |
| M21 | 9 50 16 | 29°33'06 | 15°32 | 1°59 | 13°34 | 10°20 | 4°29 | 27°59 | 20°33 | 26° 7 | 20°24 | 4°10 | 4°33 | 22°40 | n.a. | M21 |
| T 22 | 9 54 13 | 0♓32'31 | 0♎36 | 3° 6 | 14°38 | 11° 6 | 4°43 | 27°58 | 20°36 | 26° 8 | 20°24 | 4°10 | 4°30 | 22°46 | n.a. | T 22 |
| W23 | 9 58 9 | 1°31'54 | 15°30 | 4°15 | 15°43 | 11°51 | 4°57 | 27°56 | 20°38 | 26° 8 | 20°25 | 4°10 | 4°26 | 22°53 | n.a. | W23 |
| T 24 | 10 2 6 | 2°31'14 | 0♏ 6 | 5°26 | 16°47 | 12°36 | 5°12 | 27°55 | 20°41 | 26° 9 | 20°25 | 4°10 | 4°23 | 23° 0 | n.a. | T 24 |
| F 25 | 10 6 3 | 3°30'34 | 14°20 | 6°39 | 17°52 | 13°22 | 5°26 | 27°53 | 20°44 | 26° 9 | 20°25 | 4°11 | 4°20 | 23° 6 | n.a. | F 25 |
| S 26 | 10 9 59 | 4°29'51 | 28°10 | 7°54 | 18°57 | 14° 7 | 5°41 | 27°52 | 20°46 | 26°10 | 20°26 | 4°11 | 4°17 | 23°13 | n.a. | S 26 |
| S 27 | 10 13 56 | 5°29'07 | 11♐37 | 9°11 | 20° 3 | 14°53 | 5°55 | 27°50 | 20°49 | 26°10 | 20°26 | 4°11 | 4°14 | 23°20 | n.a. | S 27 |
| M28 | 10 17 52 | 6♓28'20 | 24♐42 | 10♒30 | 21♑ 8 | 15♑38 | 6♓10 | 27♎48 | 20♈52 | 26♉11 | 20♉27 | 4♓11 | 4♓11 | 23♓26 | n.a. | M28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 18s 3 | 28s30 | 4s49 | 18s50 | 2n59 | 19s57 | 3n35 | 24s 9 | 0s32 | 12s47 | 1s 9 | 8s34 | 2n31 | 7n24 | 0s30 | 18n 0 | 1s32 | 9n17 | 9s 5 | 10s 1 | 9s33 | 2s37 | | n.a. |
| W 2 | 17 46 | 27 31 | 4 14 | 19 5 | 2 47 | 20 5 | 3 30 | 24 12 | 0 33 | 12 42 | 1 9 | 8 34 | 2 31 | 7 24 | 0 30 | 18 0 | 1 32 | 9 17 | 9 4 | 10 2 | 9 35 | 2 33 | | n.a. |
| T 3 | 17 29 | 25 9 | 3 28 | 19 20 | 2 34 | 20 12 | 3 25 | 24 14 | 0 34 | 12 37 | 1 9 | 8 34 | 2 31 | 7 25 | 0 30 | 18 0 | 1 32 | 9 17 | 9 4 | 10 4 | 9 36 | 2 30 | | n.a. |
| F 4 | 17 13 | 21 38 | 2 33 | 19 35 | 2 21 | 20 19 | 3 20 | 24 16 | 0 35 | 12 31 | 1 9 | 8 34 | 2 31 | 7 26 | 0 30 | 18 0 | 1 32 | 9 17 | 9 4 | 10 5 | 9 37 | 2 27 | | n.a. |
| S 5 | 16 55 | 17 14 | 1 31 | 19 48 | 2 8 | 20 26 | 3 15 | 24 17 | 0 36 | 12 26 | 1 9 | 8 34 | 2 32 | 7 26 | 0 30 | 18 0 | 1 32 | 9 18 | 9 4 | 10 6 | 9 38 | 2 23 | | n.a. |
| S 6 | 16 38 | 12 13 | 0 26 | 20 1 | 1 55 | 20 32 | 3 9 | 24 19 | 0 36 | 12 21 | 1 9 | 8 34 | 2 32 | 7 27 | 0 30 | 18 0 | 1 32 | 9 18 | 9 3 | 10 6 | 9 39 | 2 20 | | n.a. |
| M 7 | 16 20 | 6 48 | 0n39 | 20 12 | 1 42 | 20 38 | 3 4 | 24 20 | 0 37 | 12 16 | 1 9 | 8 34 | 2 32 | 7 28 | 0 30 | 18 0 | 1 32 | 9 18 | 9 3 | 10 6 | 9 41 | 2 16 | | n.a. |
| T 8 | 16 2 | 1 12 | 1 43 | 20 23 | 1 29 | 20 43 | 2 59 | 24 20 | 0 38 | 12 11 | 1 9 | 8 33 | 2 32 | 7 29 | 0 30 | 18 0 | 1 32 | 9 18 | 9 3 | 10 6 | 9 42 | 2 13 | | n.a. |
| W 9 | 15 43 | 4n26 | 2 42 | 20 33 | 1 16 | 20 48 | 2 54 | 24 21 | 0 39 | 12 6 | 1 9 | 8 33 | 2 32 | 7 29 | 0 30 | 18 0 | 1 32 | 9 19 | 9 3 | 10 5 | 9 43 | 2 10 | | n.a. |
| T 10 | 15 25 | 9 56 | 3 34 | 20 41 | 1 3 | 20 53 | 2 49 | 24 21 | 0 40 | 12 1 | 1 9 | 8 33 | 2 33 | 7 30 | 0 30 | 18 0 | 1 32 | 9 19 | 9 2 | 10 4 | 9 44 | 2 6 | | n.a. |
| F 11 | 15 6 | 15 7 | 4 18 | 20 48 | 0 50 | 20 57 | 2 44 | 24 21 | 0 41 | 11 55 | 1 9 | 8 33 | 2 33 | 7 31 | 0 30 | 18 0 | 1 32 | 9 19 | 9 2 | 10 4 | 9 45 | 2 3 | | n.a. |
| S 12 | 14 47 | 19 48 | 4 51 | 20 54 | 0 38 | 21 0 | 2 38 | 24 21 | 0 41 | 11 50 | 1 9 | 8 32 | 2 33 | 7 32 | 0 30 | 18 0 | 1 32 | 9 19 | 9 2 | 10 4 | 9 46 | 1 59 | | n.a. |
| S 13 | 14 28 | 23 45 | 5 11 | 20 59 | 0 26 | 21 3 | 2 33 | 24 20 | 0 42 | 11 45 | 1 9 | 8 32 | 2 33 | 7 33 | 0 30 | 18 0 | 1 32 | 9 20 | 9 2 | 10 4 | 9 48 | 1 56 | | n.a. |
| M14 | 14 8 | 26 42 | 5 17 | 21 3 | 0 14 | 21 6 | 2 28 | 24 20 | 0 43 | 11 40 | 1 9 | 8 32 | 2 34 | 7 33 | 0 30 | 18 0 | 1 32 | 9 20 | 9 2 | 10 4 | 9 49 | 1 52 | | n.a. |
| T 15 | 13 48 | 28 20 | 5 7 | 21 5 | 0 3 | 21 8 | 2 23 | 24 19 | 0 44 | 11 34 | 1 9 | 8 31 | 2 34 | 7 34 | 0 30 | 18 0 | 1 32 | 9 20 | 9 1 | 10 4 | 9 50 | 1 49 | | n.a. |
| W16 | 13 28 | 28 21 | 4 40 | 21 6 | 0s 8 | 21 10 | 2 17 | 24 17 | 0 45 | 11 29 | 1 9 | 8 31 | 2 34 | 7 35 | 0 29 | 18 1 | 1 32 | 9 21 | 9 1 | 10 4 | 9 51 | 1 46 | | n.a. |
| T 17 | 13 8 | 26 36 | 3 56 | 21 6 | 0 19 | 21 11 | 2 12 | 24 16 | 0 46 | 11 24 | 1 9 | 8 30 | 2 34 | 7 36 | 0 29 | 18 1 | 1 31 | 9 21 | 9 1 | 10 5 | 9 52 | 1 42 | | n.a. |
| F 18 | 12 48 | 23 5 | 2 56 | 21 5 | 0 29 | 21 11 | 2 7 | 24 14 | 0 47 | 11 19 | 1 9 | 8 30 | 2 34 | 7 37 | 0 29 | 18 1 | 1 31 | 9 21 | 9 1 | 10 5 | 9 53 | 1 39 | | n.a. |
| S 19 | 12 27 | 18 1 | 1 42 | 21 2 | 0 39 | 21 11 | 2 2 | 24 12 | 0 47 | 11 13 | 1 9 | 8 29 | 2 35 | 7 38 | 0 29 | 18 1 | 1 31 | 9 21 | 9 0 | 10 5 | 9 55 | 1 35 | | n.a. |
| S 20 | 12 6 | 11 46 | 0 21 | 20 57 | 0 48 | 21 11 | 1 56 | 24 9 | 0 48 | 11 8 | 1 9 | 8 28 | 2 35 | 7 39 | 0 29 | 18 1 | 1 31 | 9 22 | 9 0 | 10 6 | 9 56 | 1 32 | | n.a. |
| M21 | 11 45 | 4 48 | 1s 3 | 20 52 | 0 57 | 21 10 | 1 51 | 24 7 | 0 49 | 11 3 | 1 9 | 8 28 | 2 35 | 7 40 | 0 29 | 18 1 | 1 31 | 9 22 | 9 0 | 10 6 | 9 57 | 1 28 | | n.a. |
| T 22 | 11 24 | 2s24 | 2 22 | 20 45 | 1 5 | 21 8 | 1 46 | 24 4 | 0 50 | 10 57 | 1 9 | 8 27 | 2 35 | 7 41 | 0 29 | 18 1 | 1 31 | 9 22 | 9 0 | 10 5 | 9 58 | 1 25 | | n.a. |
| W23 | 11 3 | 9 23 | 3 30 | 20 36 | 1 13 | 21 6 | 1 41 | 24 1 | 0 51 | 10 52 | 1 9 | 8 26 | 2 36 | 7 42 | 0 29 | 18 2 | 1 31 | 9 23 | 8 59 | 10 5 | 9 59 | 1 22 | | n.a. |
| T 24 | 10 41 | 15 44 | 4 23 | 20 26 | 1 21 | 21 3 | 1 36 | 23 58 | 0 52 | 10 47 | 1 9 | 8 26 | 2 36 | 7 43 | 0 29 | 18 2 | 1 31 | 9 23 | 8 59 | 10 5 | 10 1 | 1 18 | | n.a. |
| F 25 | 10 20 | 21 4 | 4 59 | 20 14 | 1 28 | 21 0 | 1 30 | 23 54 | 0 53 | 10 41 | 1 9 | 8 25 | 2 36 | 7 44 | 0 29 | 18 2 | 1 31 | 9 23 | 8 59 | 10 5 | 10 2 | 1 15 | | n.a. |
| S 26 | 9 58 | 25 6 | 5 16 | 20 2 | 1 35 | 20 56 | 1 25 | 23 50 | 0 53 | 10 36 | 1 9 | 8 24 | 2 36 | 7 45 | 0 29 | 18 2 | 1 31 | 9 24 | 8 59 | 10 5 | 10 3 | 1 11 | | n.a. |
| S 27 | 9 36 | 27 38 | 5 15 | 19 47 | 1 41 | 20 52 | 1 20 | 23 46 | 0 54 | 10 30 | 1 9 | 8 23 | 2 36 | 7 46 | 0 29 | 18 2 | 1 31 | 9 24 | 8 58 | 10 5 | 10 4 | 1 8 | | n.a. |
| M28 | 9s14 | 28s33 | 4s58 | 19s31 | 1s47 | 20s47 | 1n15 | 23s41 | 0s55 | 10s25 | 1s 9 | 8s23 | 2n37 | 7n47 | 0s29 | 18n 3 | 1s31 | 9n24 | 8s58 | 10s 5 | 10s 5 | 1s 4 | | n.a. |

Julian Day Number = 1692964.5, Delta T = 03h09m31s
Ecliptic obliquity = 23°42'24, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°08'25, Lahiri = - 5°01'24 Julian Calendar 1 Feb. 78 BCE == Greg. Calendar 30 Jan. 078 BCE

The year -77 astronomical counting style corresponds to year 078 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 78 BCE
# geocentric

## MARCH 78 BCE (-77) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 10 21 49 | 7♓27'32 | 7♉28 | 11♒50 | 22♉14 | 16♉24 | 6♓24 | 27°R46 | 20♈54 | 26♉12 | 20♉27 | 4♓11 | 4♓ 7 | 23♓33 | n.a. | T 1 |
| W 2 | 10 25 45 | 8°26'42 | 19°57 | 13°13 | 23°19 | 17° 9 | 6°39 | 27♎44 | 20°57 | 26°13 | 20°28 | 4°11 | 4° 4 | 23°39 | n.a. | W 2 |
| T 3 | 10 29 42 | 9°25'50 | 2♒13 | 14°37 | 24°25 | 17°55 | 6°53 | 27°42 | 21° 0 | 26°13 | 20°28 | 4°12 | 4° 1 | 23°46 | n.a. | T 3 |
| F 4 | 10 33 38 | 10°24'56 | 14°18 | 16° 2 | 25°32 | 18°40 | 7° 8 | 27°40 | 21° 3 | 26°14 | 20°29 | 4°12 | 3°58 | 23°53 | n.a. | F 4 |
| S 5 | 10 37 35 | 11°24'00 | 26°16 | 17°30 | 26°38 | 19°26 | 7°22 | 27°37 | 21° 5 | 26°15 | 20°29 | 4°13 | 3°55 | 23°59 | n.a. | S 5 |
| S 6 | 10 41 32 | 12°23'02 | 8♓ 8 | 18°59 | 27°44 | 20°11 | 7°37 | 27°35 | 21° 8 | 26°16 | 20°30 | 4°R13 | 3°52 | 24° 6 | n.a. | S 6 |
| M 7 | 10 45 28 | 13°22'02 | 19°57 | 20°29 | 28°51 | 20°57 | 7°51 | 27°32 | 21°11 | 26°17 | 20°31 | 4°12 | 3°48 | 24°13 | n.a. | M 7 |
| T 8 | 10 49 25 | 14°20'59 | 1♈44 | 22° 2 | 29°58 | 21°42 | 8° 5 | 27°30 | 21°14 | 26°18 | 20°31 | 4°12 | 3°45 | 24°19 | n.a. | T 8 |
| W 9 | 10 53 21 | 15°19'54 | 13°33 | 23°35 | 1♒ 5 | 22°28 | 8°20 | 27°27 | 21°17 | 26°19 | 20°32 | 4°10 | 3°42 | 24°26 | n.a. | W 9 |
| T 10 | 10 57 18 | 16°18'47 | 25°25 | 25°10 | 2°12 | 23°13 | 8°34 | 27°24 | 21°20 | 26°20 | 20°33 | 4° 8 | 3°39 | 24°33 | n.a. | T 10 |
| F 11 | 11 1 14 | 17°17'38 | 7♉24 | 26°47 | 3°19 | 23°59 | 8°49 | 27°22 | 21°23 | 26°21 | 20°33 | 4° 7 | 3°36 | 24°39 | n.a. | F 11 |
| S 12 | 11 5 11 | 18°16'27 | 19°33 | 28°25 | 4°26 | 24°44 | 9° 3 | 27°19 | 21°26 | 26°22 | 20°34 | 4° 5 | 3°32 | 24°46 | n.a. | S 12 |
| S 13 | 11 9 7 | 19°15'13 | 1♊54 | 0♓ 5 | 5°33 | 25°30 | 9°17 | 27°16 | 21°29 | 26°23 | 20°35 | 4° 3 | 3°29 | 24°53 | n.a. | S 13 |
| M14 | 11 13 4 | 20°13'57 | 14°32 | 1°47 | 6°41 | 26°15 | 9°32 | 27°13 | 21°32 | 26°24 | 20°36 | 4°D 3 | 3°26 | 24°59 | n.a. | M14 |
| T 15 | 11 17 0 | 21°12'39 | 27°30 | 3°29 | 7°49 | 27° 1 | 9°46 | 27°10 | 21°35 | 26°25 | 20°36 | 4° 3 | 3°23 | 25° 6 | n.a. | T 15 |
| W16 | 11 20 57 | 22°11'19 | 10♋52 | 5°14 | 8°56 | 27°46 | 10° 0 | 27° 6 | 21°38 | 26°26 | 20°37 | 4° 3 | 3°20 | 25°13 | n.a. | W16 |
| T 17 | 11 24 54 | 23° 9'56 | 24°40 | 7° 0 | 10° 4 | 28°32 | 10°15 | 27° 3 | 21°41 | 26°27 | 20°38 | 4° 5 | 3°17 | 25°19 | n.a. | T 17 |
| F 18 | 11 28 50 | 24° 8'31 | 8♌54 | 8°47 | 11°12 | 29°17 | 10°29 | 27° 0 | 21°45 | 26°28 | 20°39 | 4° 6 | 3°13 | 25°26 | n.a. | F 18 |
| S 19 | 11 32 47 | 25° 7'03 | 23°32 | 10°37 | 12°20 | 0♒ 3 | 10°43 | 26°56 | 21°48 | 26°30 | 20°40 | 4° 7 | 3°10 | 25°33 | n.a. | S 19 |
| S 20 | 11 36 43 | 26° 5'33 | 8♍30 | 12°27 | 13°28 | 0°48 | 10°57 | 26°53 | 21°51 | 26°31 | 20°41 | 4°R 7 | 3° 7 | 25°39 | n.a. | S 20 |
| M21 | 11 40 40 | 27° 4'01 | 23°42 | 14°20 | 14°37 | 1°34 | 11°12 | 26°49 | 21°54 | 26°32 | 20°41 | 4° 6 | 3° 4 | 25°46 | n.a. | M21 |
| T 22 | 11 44 36 | 28° 2'27 | 8♎56 | 16°13 | 15°45 | 2°19 | 11°26 | 26°46 | 21°57 | 26°34 | 20°42 | 4° 4 | 3° 1 | 25°53 | n.a. | T 22 |
| W23 | 11 48 33 | 29° 0'51 | 24° 4 | 18° 9 | 16°54 | 3° 5 | 11°40 | 26°42 | 22° 1 | 26°35 | 20°43 | 4° 1 | 2°57 | 25°59 | n.a. | W23 |
| T 24 | 11 52 29 | 29°59'14 | 8♏56 | 20° 6 | 18° 2 | 3°50 | 11°54 | 26°39 | 22° 4 | 26°36 | 20°44 | 3°58 | 2°54 | 26° 6 | n.a. | T 24 |
| F 25 | 11 56 26 | 0♈57'34 | 23°26 | 22° 4 | 19°11 | 4°35 | 12° 8 | 26°35 | 22° 7 | 26°38 | 20°45 | 3°54 | 2°51 | 26°13 | n.a. | F 25 |
| S 26 | 12 0 23 | 1°55'53 | 7♐28 | 24° 5 | 20°20 | 5°21 | 12°22 | 26°31 | 22°10 | 26°39 | 20°46 | 3°51 | 2°48 | 26°19 | n.a. | S 26 |
| S 27 | 12 4 19 | 2°54'11 | 21° 2 | 26° 6 | 21°28 | 6° 6 | 12°36 | 26°27 | 22°14 | 26°41 | 20°47 | 3°49 | 2°45 | 26°26 | n.a. | S 27 |
| M28 | 12 8 16 | 3°52'27 | 4♑ 9 | 28° 9 | 22°37 | 6°52 | 12°50 | 26°23 | 22°17 | 26°42 | 20°48 | 3°D49 | 2°42 | 26°33 | n.a. | M28 |
| T 29 | 12 12 12 | 4°50'41 | 16°52 | 0♈14 | 23°46 | 7°37 | 13° 4 | 26°19 | 22°20 | 26°44 | 20°49 | 3°49 | 2°38 | 26°39 | n.a. | T 29 |
| W30 | 12 16 9 | 5°48'54 | 29°15 | 2°19 | 24°56 | 8°22 | 13°18 | 26°15 | 22°24 | 26°45 | 20°50 | 3°51 | 2°35 | 26°46 | n.a. | W30 |
| T 31 | 12 20 5 | 6♈47'05 | 11♒24 | 4♈26 | 26♒ 5 | 9♒ 8 | 13♓32 | 26♎11 | 22♈27 | 26♉47 | 20♉51 | 3♓53 | 2♓32 | 26♓53 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| T 1 | 8s52 | 27s55 | 4s26 | 19s14 | 1s52 | 20s42 | 1n10 | 23s37 | 0s56 | 10s20 | 1s 9 | 8s22 | 2n37 | 7n48 | 0s29 | 18n 3 | 1s31 | 9n25 | 8s58 | 10s 5 | 10s 6 | 1s 1 | | | n.a. |
| W 2 | 8 30 | 25 52 | 3 42 | 18 55 | 1 57 | 20 36 | 1 5 | 23 32 | 0 57 | 10 14 | 1 9 | 8 21 | 2 37 | 7 49 | 0 29 | 18 3 | 1 31 | 9 25 | 8 58 | 10 5 | 10 8 | 0 58 | | | n.a. |
| T 3 | 8 7 | 22 37 | 2 49 | 18 34 | 2 2 | 20 29 | 1 0 | 23 27 | 0 58 | 10 9 | 1 9 | 8 20 | 2 37 | 7 50 | 0 29 | 18 3 | 1 31 | 9 26 | 8 57 | 10 5 | 10 9 | 0 54 | | | n.a. |
| F 4 | 7 45 | 18 27 | 1 48 | 18 12 | 2 6 | 20 22 | 0 55 | 23 21 | 0 58 | 10 3 | 1 9 | 8 19 | 2 37 | 7 51 | 0 29 | 18 4 | 1 31 | 9 26 | 8 57 | 10 5 | 10 10 | 0 51 | | | n.a. |
| S 5 | 7 22 | 13 36 | 0 44 | 17 49 | 2 9 | 20 14 | 0 51 | 23 16 | 0 59 | 9 58 | 1 9 | 8 18 | 2 37 | 7 52 | 0 29 | 18 4 | 1 31 | 9 26 | 8 57 | 10 4 | 10 11 | 0 47 | | | n.a. |
| S 6 | 6 59 | 8 17 | 0n22 | 17 24 | 2 13 | 20 6 | 0 46 | 23 10 | 1 0 | 9 53 | 1 9 | 8 17 | 2 38 | 7 53 | 0 29 | 18 4 | 1 30 | 9 27 | 8 57 | 10 4 | 10 12 | 0 44 | | | n.a. |
| M 7 | 6 37 | 2 42 | 1 26 | 16 57 | 2 15 | 19 57 | 0 41 | 23 4 | 1 1 | 9 47 | 1 9 | 8 16 | 2 38 | 7 54 | 0 29 | 18 4 | 1 30 | 9 27 | 8 57 | 10 5 | 10 13 | 0 41 | | | n.a. |
| T 8 | 6 14 | 2n56 | 2 27 | 16 29 | 2 17 | 19 48 | 0 36 | 22 57 | 1 2 | 9 42 | 1 9 | 8 15 | 2 38 | 7 56 | 0 29 | 18 5 | 1 30 | 9 27 | 8 56 | 10 5 | 10 15 | 0 37 | | | n.a. |
| W 9 | 5 51 | 8 29 | 3 21 | 15 59 | 2 19 | 19 38 | 0 32 | 22 50 | 1 3 | 9 36 | 1 9 | 8 13 | 2 38 | 7 57 | 0 29 | 18 5 | 1 30 | 9 28 | 8 56 | 10 5 | 10 16 | 0 34 | | | n.a. |
| T 10 | 5 28 | 13 46 | 4 7 | 15 28 | 2 20 | 19 27 | 0 27 | 22 44 | 1 4 | 9 31 | 1 9 | 8 12 | 2 38 | 7 58 | 0 29 | 18 5 | 1 30 | 9 28 | 8 56 | 10 6 | 10 17 | 0 30 | | | n.a. |
| F 11 | 5 4 | 18 35 | 4 43 | 14 55 | 2 21 | 19 16 | 0 23 | 22 37 | 1 4 | 9 26 | 1 9 | 8 11 | 2 38 | 7 59 | 0 29 | 18 5 | 1 30 | 9 29 | 8 56 | 10 7 | 10 18 | 0 27 | | | n.a. |
| S 12 | 4 41 | 22 43 | 5 6 | 14 21 | 2 21 | 19 4 | 0 18 | 22 29 | 1 5 | 9 20 | 1 9 | 8 10 | 2 39 | 8 0 | 0 29 | 18 6 | 1 30 | 9 29 | 8 55 | 10 7 | 10 19 | 0 23 | | | n.a. |
| S 13 | 4 18 | 25 56 | 5 16 | 13 45 | 2 21 | 18 52 | 0 14 | 22 22 | 1 6 | 9 15 | 1 9 | 8 9 | 2 39 | 8 1 | 0 29 | 18 6 | 1 30 | 9 29 | 8 55 | 10 8 | 10 20 | 0 20 | | | n.a. |
| M14 | 3 55 | 27 57 | 5 11 | 13 8 | 2 20 | 18 40 | 0 9 | 22 14 | 1 7 | 9 9 | 1 10 | 8 8 | 2 39 | 8 2 | 0 29 | 18 6 | 1 30 | 9 30 | 8 55 | 10 8 | 10 22 | 0 17 | | | n.a. |
| T 15 | 3 31 | 28 31 | 4 50 | 12 29 | 2 18 | 18 26 | 0 5 | 22 6 | 1 8 | 9 4 | 1 10 | 8 6 | 2 39 | 8 4 | 0 29 | 18 7 | 1 30 | 9 30 | 8 55 | 10 8 | 10 23 | 0 13 | | | n.a. |
| W16 | 3 8 | 27 28 | 4 13 | 11 49 | 2 16 | 18 13 | 0 1 | 21 57 | 1 9 | 8 58 | 1 10 | 8 5 | 2 39 | 8 5 | 0 29 | 18 7 | 1 30 | 9 31 | 8 55 | 10 8 | 10 24 | 0 10 | | | n.a. |
| T 17 | 2 45 | 24 44 | 3 21 | 11 7 | 2 14 | 17 58 | 0s 3 | 21 49 | 1 9 | 8 53 | 1 10 | 8 4 | 2 39 | 8 6 | 0 29 | 18 7 | 1 30 | 9 31 | 8 54 | 10 7 | 10 25 | 0 6 | | | n.a. |
| F 18 | 2 21 | 20 24 | 2 15 | 10 23 | 2 11 | 17 44 | 0 8 | 21 40 | 1 10 | 8 48 | 1 10 | 8 2 | 2 39 | 8 7 | 0 29 | 18 8 | 1 30 | 9 31 | 8 54 | 10 7 | 10 26 | 0 3 | | | n.a. |
| S 19 | 1 58 | 14 44 | 0 58 | 9 38 | 2 8 | 17 29 | 0 12 | 21 31 | 1 11 | 8 42 | 1 10 | 8 1 | 2 40 | 8 8 | 0 29 | 18 8 | 1 30 | 9 32 | 8 54 | 10 7 | 10 27 | 0n 0 | | | n.a. |
| S 20 | 1 34 | 8 6 | 0s24 | 8 52 | 2 4 | 17 13 | 0 16 | 21 22 | 1 12 | 8 37 | 1 10 | 8 0 | 2 40 | 8 10 | 0 29 | 18 8 | 1 30 | 9 32 | 8 54 | 10 6 | 10 28 | 0 4 | | | n.a. |
| M21 | 1 11 | 0 55 | 1 46 | 8 4 | 1 59 | 16 57 | 0 20 | 21 13 | 1 13 | 8 31 | 1 10 | 7 58 | 2 40 | 8 11 | 0 29 | 18 9 | 1 30 | 9 33 | 8 54 | 10 7 | 10 30 | 0 7 | | | n.a. |
| T 22 | 0 47 | 6s20 | 3 0 | 7 15 | 1 54 | 16 40 | 0 23 | 21 3 | 1 13 | 8 26 | 1 10 | 7 57 | 2 40 | 8 12 | 0 29 | 18 9 | 1 30 | 9 33 | 8 53 | 10 8 | 10 31 | 0 11 | | | n.a. |
| W23 | 0 24 | 13 10 | 4 1 | 6 24 | 1 49 | 16 23 | 0 27 | 20 54 | 1 14 | 8 21 | 1 10 | 7 55 | 2 40 | 8 13 | 0 29 | 18 9 | 1 30 | 9 33 | 8 53 | 10 9 | 10 32 | 0 14 | | | n.a. |
| T 24 | 0 0 | 19 7 | 4 45 | 5 32 | 1 42 | 16 5 | 0 31 | 20 44 | 1 15 | 8 15 | 1 10 | 7 54 | 2 40 | 8 15 | 0 29 | 18 10 | 1 29 | 9 34 | 8 53 | 10 10 | 10 33 | 0 18 | | | n.a. |
| F 25 | 0n23 | 23 49 | 5 9 | 4 39 | 1 36 | 15 47 | 0 34 | 20 33 | 1 16 | 8 10 | 1 10 | 7 53 | 2 40 | 8 16 | 0 29 | 18 10 | 1 29 | 9 34 | 8 53 | 10 11 | 10 34 | 0 21 | | | n.a. |
| S 26 | 0 47 | 26 57 | 5 13 | 3 44 | 1 29 | 15 28 | 0 38 | 20 23 | 1 17 | 8 5 | 1 10 | 7 51 | 2 40 | 8 17 | 0 29 | 18 11 | 1 29 | 9 35 | 8 53 | 10 12 | 10 35 | 0 24 | | | n.a. |
| S 27 | 1 10 | 28 23 | 5 0 | 2 48 | 1 21 | 15 9 | 0 41 | 20 12 | 1 18 | 7 59 | 1 10 | 7 50 | 2 41 | 8 18 | 0 29 | 18 11 | 1 29 | 9 35 | 8 52 | 10 13 | 10 37 | 0 28 | | | n.a. |
| M28 | 1 33 | 28 10 | 4 31 | 1 51 | 1 13 | 14 50 | 0 45 | 20 2 | 1 18 | 7 54 | 1 10 | 7 48 | 2 41 | 8 20 | 0 29 | 18 11 | 1 29 | 9 36 | 8 52 | 10 13 | 10 38 | 0 31 | | | n.a. |
| T 29 | 1 57 | 26 26 | 3 50 | 0 54 | 1 4 | 14 30 | 0 48 | 19 51 | 1 19 | 7 49 | 1 11 | 7 47 | 2 41 | 8 21 | 0 29 | 18 12 | 1 29 | 9 36 | 8 52 | 10 13 | 10 39 | 0 35 | | | n.a. |
| W30 | 2 20 | 23 27 | 2 59 | 0n 5 | 0 55 | 14 10 | 0 51 | 19 39 | 1 20 | 7 43 | 1 11 | 7 45 | 2 41 | 8 22 | 0 29 | 18 12 | 1 29 | 9 37 | 8 52 | 10 12 | 10 40 | 0 38 | | | n.a. |
| T 31 | 2n43 | 19s29 | 2s 0 | 1n 5 | 0s46 | 13s49 | 0s54 | 19s28 | 1s21 | 7s38 | 1s11 | 7s44 | 2n41 | 8n23 | 0s29 | 18n13 | 1s29 | 9n37 | 8s52 | 10s12 | 10s41 | 0n41 | | | n.a. |

Julian Day Number = 1692992.5, Delta T = 03h09m30s
Ecliptic obliquity = 23°42'25, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°08'21, Lahiri = - 5°01'20 Julian Calendar 1 March 78 BCE == Greg. Calendar 27 Feb. 078 BCE

The year -77 astronomical counting style corresponds to year 078 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 78 BCE
# geocentric

## APRIL 78 BCE (-77) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 12 24 2 | 7♈45'14 | 23♒21 | 6♈34 | 27♒14 | 9♒53 | 13♓46 | 26°R 7 | 22♈31 | 26♉48 | 20♉52 | 3♓54 | 2♓29 | 26♓59 | n.a. | F 1 |
| S 2 | 12 27 58 | 8°43'22 | 5♓12 | 8°42 | 28°23 | 10°38 | 13°59 | 26♎ 3 | 22°34 | 26°50 | 20°53 | 3°R54 | 2°26 | 27° 6 | n.a. | S 2 |
| S 3 | 12 31 55 | 9°41'28 | 16°59 | 10°51 | 29°33 | 11°24 | 14°13 | 25°59 | 22°37 | 26°51 | 20°54 | 3°54 | 2°23 | 27°12 | n.a. | S 3 |
| M 4 | 12 35 52 | 10°39'32 | 28°46 | 13° 1 | 0♓42 | 12° 9 | 14°27 | 25°55 | 22°41 | 26°53 | 20°56 | 3°51 | 2°19 | 27°19 | n.a. | M 4 |
| T 5 | 12 39 48 | 11°37'35 | 10♈35 | 15°10 | 1°52 | 12°54 | 14°40 | 25°50 | 22°44 | 26°55 | 20°57 | 3°46 | 2°16 | 27°26 | n.a. | T 5 |
| W 6 | 12 43 45 | 12°35'36 | 22°29 | 17°20 | 3° 2 | 13°39 | 14°54 | 25°46 | 22°48 | 26°56 | 20°58 | 3°40 | 2°13 | 27°32 | n.a. | W 6 |
| T 7 | 12 47 41 | 13°33'35 | 4♉28 | 19°29 | 4°11 | 14°25 | 15° 8 | 25°42 | 22°51 | 26°58 | 20°59 | 3°33 | 2°10 | 27°39 | n.a. | T 7 |
| F 8 | 12 51 38 | 14°31'33 | 16°36 | 21°37 | 5°21 | 15°10 | 15°21 | 25°38 | 22°55 | 27° 0 | 21° 0 | 3°26 | 2° 7 | 27°46 | n.a. | F 8 |
| S 9 | 12 55 34 | 15°29'29 | 28°53 | 23°44 | 6°31 | 15°55 | 15°35 | 25°33 | 22°58 | 27° 2 | 21° 1 | 3°19 | 2° 3 | 27°52 | n.a. | S 9 |
| S 10 | 12 59 31 | 16°27'23 | 11♊21 | 25°50 | 7°41 | 16°40 | 15°48 | 25°29 | 23° 1 | 27° 3 | 21° 2 | 3°13 | 2° 0 | 27°59 | n.a. | S 10 |
| M11 | 13 3 27 | 17°25'15 | 24° 3 | 27°55 | 8°51 | 17°25 | 16° 1 | 25°25 | 23° 5 | 27° 5 | 21° 4 | 3° 8 | 1°57 | 28° 6 | n.a. | M11 |
| T 12 | 13 7 24 | 18°23'05 | 7♋ 1 | 29°57 | 10° 1 | 18°10 | 16°15 | 25°20 | 23° 8 | 27° 7 | 21° 5 | 3° 6 | 1°54 | 28°12 | n.a. | T 12 |
| W13 | 13 11 21 | 19°20'54 | 20°18 | 1♉58 | 11°11 | 18°55 | 16°28 | 25°16 | 23°12 | 27° 9 | 21° 6 | 3°D 5 | 1°51 | 28°19 | n.a. | W13 |
| T 14 | 13 15 17 | 20°18'40 | 3♌56 | 3°56 | 12°21 | 19°40 | 16°41 | 25°11 | 23°15 | 27°11 | 21° 7 | 3° 6 | 1°48 | 28°26 | n.a. | T 14 |
| F 15 | 13 19 14 | 21°16'25 | 17°57 | 5°52 | 13°31 | 20°25 | 16°54 | 25° 7 | 23°19 | 27°13 | 21° 8 | 3° 7 | 1°44 | 28°32 | n.a. | F 15 |
| S 16 | 13 23 10 | 22°14'08 | 2♍21 | 7°45 | 14°41 | 21°10 | 17° 7 | 25° 2 | 23°22 | 27°15 | 21°10 | 3°R 8 | 1°41 | 28°39 | n.a. | S 16 |
| S 17 | 13 27 7 | 23°11'49 | 17° 5 | 9°35 | 15°51 | 21°55 | 17°20 | 24°58 | 23°26 | 27°16 | 21°11 | 3° 7 | 1°38 | 28°46 | n.a. | S 17 |
| M18 | 13 31 3 | 24° 9'29 | 2♎ 5 | 11°22 | 17° 2 | 22°40 | 17°33 | 24°53 | 23°29 | 27°18 | 21°12 | 3° 4 | 1°35 | 28°52 | n.a. | M18 |
| T 19 | 13 35 0 | 25° 7'07 | 17°13 | 13° 7 | 18°12 | 23°24 | 17°46 | 24°49 | 23°33 | 27°20 | 21°13 | 2°59 | 1°32 | 28°59 | n.a. | T 19 |
| W20 | 13 38 56 | 26° 4'43 | 2♏19 | 14°48 | 19°22 | 24° 9 | 17°59 | 24°45 | 23°36 | 27°22 | 21°15 | 2°52 | 1°29 | 29° 6 | n.a. | W20 |
| T 21 | 13 42 53 | 27° 2'19 | 17°14 | 16°26 | 20°33 | 24°54 | 18°12 | 24°40 | 23°40 | 27°24 | 21°16 | 2°44 | 1°25 | 29°12 | n.a. | T 21 |
| F 22 | 13 46 50 | 27°59'53 | 1♐50 | 18° 1 | 21°43 | 25°39 | 18°25 | 24°36 | 23°43 | 27°26 | 21°17 | 2°36 | 1°22 | 29°19 | n.a. | F 22 |
| S 23 | 13 50 46 | 28°57'26 | 15°59 | 19°32 | 22°54 | 26°23 | 18°37 | 24°31 | 23°47 | 27°28 | 21°19 | 2°29 | 1°19 | 29°26 | n.a. | S 23 |
| S 24 | 13 54 43 | 29°54'58 | 29°40 | 21° 0 | 24° 4 | 27° 8 | 18°50 | 24°27 | 23°50 | 27°30 | 21°20 | 2°23 | 1°16 | 29°32 | n.a. | S 24 |
| M25 | 13 58 39 | 0♑52'29 | 12♑52 | 22°25 | 25°15 | 27°53 | 19° 2 | 24°22 | 23°53 | 27°32 | 21°21 | 2°19 | 1°13 | 29°39 | n.a. | M25 |
| T 26 | 14 2 36 | 1°49'59 | 25°38 | 23°47 | 26°26 | 28°37 | 19°15 | 24°18 | 23°57 | 27°34 | 21°23 | 2°18 | 1° 9 | 29°46 | n.a. | T 26 |
| W27 | 14 6 32 | 2°47'28 | 8♒ 2 | 25° 4 | 27°37 | 29°22 | 19°27 | 24°14 | 24° 0 | 27°36 | 21°24 | 2°D17 | 1° 6 | 29°52 | n.a. | W27 |
| T 28 | 14 10 29 | 3°44'56 | 20° 9 | 26°19 | 28°47 | 0♓ 6 | 19°40 | 24° 9 | 24° 4 | 27°38 | 21°25 | 2°18 | 1° 3 | 29°59 | n.a. | T 28 |
| F 29 | 14 14 25 | 4°42'23 | 2♓ 4 | 27°30 | 29°58 | 0°50 | 19°52 | 24° 5 | 24° 7 | 27°41 | 21°27 | 2°R19 | 1° 0 | 0♈ 6 | n.a. | F 29 |
| S 30 | 14 18 22 | 5♉39'49 | 13♓53 | 28♉37 | 1♈ 9 | 1♓35 | 20♓ 4 | 24♎ 1 | 24♈11 | 27♉43 | 21♉28 | 2♓18 | 0♓57 | 0♈12 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 3n 7 | 14s47 | 0s57 | 2n 5 | 0s36 | 13s28 | 0s57 | 19s17 | 1s21 | 7s33 | 1s11 | 7s42 | 2n41 | 8n25 | 0s29 | 18n13 | 1s29 | 9n37 | 8s52 | 10s11 | 10s42 | 0n45 | | n.a. |
| S 2 | 3 30 | 9 36 | 0n 7 | 3 5 | 0 26 | 13 7 | 1 0 | 19 5 | 1 22 | 7 27 | 1 11 | 7 40 | 2 41 | 8 26 | 0 29 | 18 13 | 1 29 | 9 38 | 8 51 | 10 11 | 10 43 | 0 48 | | n.a. |
| S 3 | 3 53 | 4 7 | 1 11 | 4 6 | 0 16 | 12 45 | 1 3 | 18 53 | 1 23 | 7 22 | 1 11 | 7 39 | 2 41 | 8 27 | 0 29 | 18 14 | 1 29 | 9 38 | 8 51 | 10 11 | 10 45 | 0 52 | | n.a. |
| M 4 | 4 16 | 1n31 | 2 11 | 5 7 | 0 5 | 12 22 | 1 6 | 18 41 | 1 24 | 7 17 | 1 11 | 7 37 | 2 41 | 8 29 | 0 29 | 18 14 | 1 29 | 9 39 | 8 51 | 10 12 | 10 46 | 0 55 | | n.a. |
| T 5 | 4 39 | 7 5 | 3 6 | 6 7 | 0n 5 | 12 0 | 1 9 | 18 29 | 1 25 | 7 12 | 1 11 | 7 36 | 2 41 | 8 30 | 0 29 | 18 15 | 1 29 | 9 39 | 8 51 | 10 14 | 10 47 | 0 58 | | n.a. |
| W 6 | 5 2 | 12 27 | 3 54 | 7 7 | 0 16 | 11 37 | 1 12 | 18 16 | 1 25 | 7 6 | 1 11 | 7 34 | 2 41 | 8 31 | 0 29 | 18 15 | 1 29 | 9 40 | 8 51 | 10 16 | 10 48 | 1 2 | | n.a. |
| T 7 | 5 25 | 17 23 | 4 31 | 8 7 | 0 27 | 11 14 | 1 14 | 18 4 | 1 26 | 7 1 | 1 11 | 7 32 | 2 41 | 8 33 | 0 29 | 18 16 | 1 29 | 9 40 | 8 50 | 10 19 | 10 49 | 1 5 | | n.a. |
| F 8 | 5 47 | 21 42 | 4 56 | 9 6 | 0 37 | 10 50 | 1 17 | 17 51 | 1 27 | 6 56 | 1 12 | 7 31 | 2 41 | 8 34 | 0 29 | 18 16 | 1 29 | 9 40 | 8 50 | 10 22 | 10 50 | 1 9 | | n.a. |
| S 9 | 6 10 | 25 8 | 5 8 | 10 3 | 0 48 | 10 26 | 1 19 | 17 38 | 1 28 | 6 51 | 1 12 | 7 29 | 2 41 | 8 35 | 0 28 | 18 16 | 1 29 | 9 41 | 8 50 | 10 24 | 10 52 | 1 12 | | n.a. |
| S 10 | 6 32 | 27 26 | 5 6 | 10 59 | 0 58 | 10 2 | 1 21 | 17 25 | 1 28 | 6 46 | 1 12 | 7 28 | 2 41 | 8 36 | 0 28 | 18 17 | 1 29 | 9 41 | 8 50 | 10 26 | 10 53 | 1 16 | | n.a. |
| M11 | 6 55 | 28 23 | 4 49 | 11 54 | 1 8 | 9 38 | 1 23 | 17 12 | 1 29 | 6 40 | 1 12 | 7 26 | 2 41 | 8 38 | 0 28 | 18 17 | 1 29 | 9 42 | 8 50 | 10 28 | 10 54 | 1 19 | | n.a. |
| T 12 | 7 17 | 27 48 | 4 17 | 12 47 | 1 18 | 9 13 | 1 26 | 16 58 | 1 30 | 6 35 | 1 12 | 7 24 | 2 41 | 8 39 | 0 28 | 18 18 | 1 29 | 9 42 | 8 50 | 10 29 | 10 55 | 1 22 | | n.a. |
| W13 | 7 39 | 25 37 | 3 30 | 13 39 | 1 27 | 8 48 | 1 28 | 16 45 | 1 30 | 6 30 | 1 12 | 7 23 | 2 41 | 8 40 | 0 28 | 18 18 | 1 29 | 9 43 | 8 50 | 10 29 | 10 56 | 1 26 | | n.a. |
| T 14 | 8 1 | 21 56 | 2 31 | 14 28 | 1 35 | 8 23 | 1 29 | 16 31 | 1 31 | 6 25 | 1 12 | 7 21 | 2 41 | 8 42 | 0 28 | 18 19 | 1 29 | 9 43 | 8 49 | 10 29 | 10 57 | 1 29 | | n.a. |
| F 15 | 8 23 | 16 54 | 1 21 | 15 15 | 1 44 | 7 57 | 1 31 | 16 18 | 1 32 | 6 20 | 1 12 | 7 19 | 2 41 | 8 43 | 0 28 | 18 19 | 1 29 | 9 44 | 8 49 | 10 29 | 10 58 | 1 33 | | n.a. |
| S 16 | 8 45 | 10 49 | 0 4 | 16 0 | 1 51 | 7 32 | 1 33 | 16 4 | 1 33 | 6 15 | 1 12 | 7 18 | 2 41 | 8 44 | 0 28 | 18 20 | 1 28 | 9 44 | 8 49 | 10 28 | 11 0 | 1 36 | | n.a. |
| S 17 | 9 7 | 4 1 | 1s15 | 16 42 | 1 58 | 7 6 | 1 35 | 15 50 | 1 33 | 6 10 | 1 13 | 7 16 | 2 41 | 8 46 | 0 28 | 18 20 | 1 28 | 9 45 | 8 49 | 10 29 | 11 1 | 1 39 | | n.a. |
| M18 | 9 28 | 3s 7 | 2 29 | 17 23 | 2 4 | 6 39 | 1 36 | 15 36 | 1 34 | 6 5 | 1 13 | 7 15 | 2 41 | 8 47 | 0 28 | 18 21 | 1 28 | 9 45 | 8 49 | 10 30 | 11 2 | 1 43 | | n.a. |
| T 19 | 9 50 | 10 7 | 3 34 | 18 0 | 2 10 | 6 13 | 1 38 | 15 21 | 1 35 | 6 0 | 1 13 | 7 13 | 2 41 | 8 48 | 0 28 | 18 21 | 1 28 | 9 45 | 8 49 | 10 31 | 11 3 | 1 46 | | n.a. |
| W20 | 10 11 | 16 32 | 4 24 | 18 36 | 2 15 | 5 46 | 1 39 | 15 7 | 1 35 | 5 55 | 1 13 | 7 11 | 2 41 | 8 49 | 0 28 | 18 22 | 1 28 | 9 46 | 8 49 | 10 34 | 11 4 | 1 49 | | n.a. |
| T 21 | 10 32 | 21 53 | 4 55 | 19 9 | 2 19 | 5 20 | 1 41 | 14 52 | 1 36 | 5 50 | 1 13 | 7 10 | 2 41 | 8 51 | 0 28 | 18 22 | 1 28 | 9 46 | 8 49 | 10 37 | 11 5 | 1 53 | | n.a. |
| F 22 | 10 53 | 25 45 | 5 6 | 19 39 | 2 22 | 4 53 | 1 42 | 14 38 | 1 37 | 5 45 | 1 13 | 7 8 | 2 41 | 8 52 | 0 28 | 18 22 | 1 28 | 9 47 | 8 48 | 10 40 | 11 6 | 1 56 | | n.a. |
| S 23 | 11 13 | 27 53 | 4 58 | 20 7 | 2 24 | 4 25 | 1 43 | 14 23 | 1 37 | 5 40 | 1 13 | 7 7 | 2 41 | 8 53 | 0 28 | 18 23 | 1 28 | 9 47 | 8 48 | 10 42 | 11 8 | 2 0 | | n.a. |
| S 24 | 11 34 | 28 15 | 4 32 | 20 33 | 2 26 | 3 58 | 1 44 | 14 8 | 1 38 | 5 36 | 1 14 | 7 5 | 2 41 | 8 55 | 0 28 | 18 23 | 1 28 | 9 48 | 8 48 | 10 45 | 11 9 | 2 3 | | n.a. |
| M25 | 11 54 | 26 57 | 3 53 | 20 56 | 2 27 | 3 31 | 1 45 | 13 53 | 1 39 | 5 31 | 1 14 | 7 3 | 2 41 | 8 56 | 0 28 | 18 24 | 1 28 | 9 48 | 8 48 | 10 46 | 11 10 | 2 6 | | n.a. |
| T 26 | 12 15 | 24 15 | 3 3 | 21 17 | 2 27 | 3 3 | 1 46 | 13 38 | 1 39 | 5 26 | 1 14 | 7 2 | 2 41 | 8 57 | 0 28 | 18 24 | 1 28 | 9 49 | 8 48 | 10 46 | 11 11 | 2 10 | | n.a. |
| W27 | 12 35 | 20 30 | 2 6 | 21 36 | 2 26 | 2 35 | 1 47 | 13 23 | 1 40 | 5 21 | 1 14 | 7 0 | 2 41 | 8 59 | 0 28 | 18 25 | 1 28 | 9 49 | 8 48 | 10 47 | 11 12 | 2 13 | | n.a. |
| T 28 | 12 54 | 15 57 | 1 5 | 21 53 | 2 24 | 2 8 | 1 47 | 13 8 | 1 41 | 5 16 | 1 14 | 6 59 | 2 41 | 9 0 | 0 28 | 18 25 | 1 28 | 9 49 | 8 48 | 10 46 | 11 13 | 2 17 | | n.a. |
| F 29 | 13 14 | 10 52 | 0 1 | 22 7 | 2 22 | 1 40 | 1 48 | 12 52 | 1 41 | 5 12 | 1 14 | 6 57 | 2 41 | 9 1 | 0 28 | 18 26 | 1 28 | 9 50 | 8 48 | 10 46 | 11 14 | 2 20 | | n.a. |
| S 30 | 13n33 | 5s28 | 1n 2 | 22n19 | 2n18 | 1s12 | 1s49 | 12s37 | 1s42 | 5s 7 | 1s14 | 6s56 | 2n41 | 9n 2 | 0s28 | 18n26 | 1s28 | 9n50 | 8s48 | 10s46 | 11s16 | 2n23 | | n.a. |

Julian Day Number = 1693023.5, Delta T = 03h09m29s
Ecliptic obliquity = 23°42'25, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°08'17, Lahiri = - 5°01'16 Julian Calendar 1 Apr. 78 BCE == Greg. Calendar 30 March 078 BCE

The year -77 astronomical counting style corresponds to year 078 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 78 BCE
# geocentric

## MAY 78 BCE (-77) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 14 22 19 | 6♉37'15 | 25♓40 | 29♉41 | 2♈20 | 2♓19 | 20♓16 | 23°R56 | 24♈14 | 27♉45 | 21♉29 | 2°R15 | 0♓54 | 0♈19 | n.a. | S 1 |
| M 2 | 14 26 15 | 7°34'39 | 7♈28 | 0♊40 | 3°31 | 3° 3 | 20°28 | 23♎52 | 24°18 | 27°47 | 21°31 | 2♓10 | 0°50 | 0°26 | n.a. | M 2 |
| T 3 | 14 30 12 | 8°32'03 | 19°22 | 1°36 | 4°42 | 3°48 | 20°40 | 23°48 | 24°21 | 27°49 | 21°32 | 2° 2 | 0°47 | 0°32 | n.a. | T 3 |
| W 4 | 14 34 8 | 9°29'26 | 1♉23 | 2°29 | 5°53 | 4°32 | 20°52 | 23°43 | 24°24 | 27°51 | 21°33 | 1°52 | 0°44 | 0°39 | n.a. | W 4 |
| T 5 | 14 38 5 | 10°26'47 | 13°33 | 3°17 | 7° 4 | 5°16 | 21° 3 | 23°39 | 24°28 | 27°53 | 21°35 | 1°41 | 0°41 | 0°46 | n.a. | T 5 |
| F 6 | 14 42 1 | 11°24'08 | 25°54 | 4° 1 | 8°15 | 6° 0 | 21°15 | 23°35 | 24°31 | 27°55 | 21°36 | 1°28 | 0°38 | 0°52 | n.a. | F 6 |
| S 7 | 14 45 58 | 12°21'28 | 8♊25 | 4°41 | 9°26 | 6°44 | 21°27 | 23°31 | 24°34 | 27°58 | 21°38 | 1°17 | 0°34 | 0°59 | n.a. | S 7 |
| S 8 | 14 49 54 | 13°18'47 | 21° 7 | 5°17 | 10°38 | 7°28 | 21°38 | 23°27 | 24°38 | 28° 0 | 21°39 | 1° 6 | 0°31 | 1° 6 | n.a. | S 8 |
| M 9 | 14 53 51 | 14°16'06 | 4♋ 1 | 5°49 | 11°49 | 8°12 | 21°50 | 23°23 | 24°41 | 28° 2 | 21°40 | 0°58 | 0°28 | 1°12 | n.a. | M 9 |
| T 10 | 14 57 48 | 15°13'23 | 17° 8 | 6°16 | 13° 0 | 8°55 | 22° 1 | 23°19 | 24°44 | 28° 4 | 21°42 | 0°53 | 0°25 | 1°19 | n.a. | T 10 |
| W11 | 15 1 44 | 16°10'39 | 0♌29 | 6°38 | 14°11 | 9°39 | 22°12 | 23°15 | 24°48 | 28° 6 | 21°43 | 0°50 | 0°22 | 1°26 | n.a. | W11 |
| T 12 | 15 5 41 | 17° 7'54 | 14° 5 | 6°57 | 15°23 | 10°23 | 22°23 | 23°11 | 24°51 | 28° 9 | 21°45 | 0°D49 | 0°19 | 1°32 | n.a. | T 12 |
| F 13 | 15 9 37 | 18° 5'07 | 27°58 | 7°10 | 16°34 | 11° 6 | 22°34 | 23° 7 | 24°54 | 28°11 | 21°46 | 0°R50 | 0°15 | 1°39 | n.a. | F 13 |
| S 14 | 15 13 34 | 19° 2'20 | 12♍ 8 | 7°19 | 17°46 | 11°50 | 22°45 | 23° 3 | 24°58 | 28°13 | 21°47 | 0°49 | 0°12 | 1°46 | n.a. | S 14 |
| S 15 | 15 17 30 | 19°59'32 | 26°35 | 7°R24 | 18°57 | 12°33 | 22°56 | 23° 0 | 25° 1 | 28°15 | 21°49 | 0°47 | 0° 9 | 1°52 | n.a. | S 15 |
| M16 | 15 21 27 | 20°56'43 | 11♎15 | 7°24 | 20° 8 | 13°17 | 23° 7 | 22°56 | 25° 4 | 28°17 | 21°50 | 0°43 | 0° 6 | 1°59 | n.a. | M16 |
| T 17 | 15 25 23 | 21°53'53 | 26° 4 | 7°19 | 21°20 | 14° 0 | 23°17 | 22°52 | 25° 7 | 28°20 | 21°52 | 0°36 | 0° 3 | 2° 6 | n.a. | T 17 |
| W18 | 15 29 20 | 22°51'03 | 10♏54 | 7°10 | 22°32 | 14°43 | 23°28 | 22°49 | 25°10 | 28°22 | 21°53 | 0°27 | 29♒59 | 2°12 | n.a. | W18 |
| T 19 | 15 33 17 | 23°48'12 | 25°37 | 6°57 | 23°43 | 15°26 | 23°38 | 22°45 | 25°13 | 28°24 | 21°54 | 0°16 | 29°56 | 2°19 | n.a. | T 19 |
| F 20 | 15 37 13 | 24°45'20 | 10♐ 4 | 6°40 | 24°55 | 16°10 | 23°49 | 22°42 | 25°17 | 28°26 | 21°56 | 0° 5 | 29°53 | 2°26 | n.a. | F 20 |
| S 21 | 15 41 10 | 25°42'29 | 24°10 | 6°20 | 26° 6 | 16°53 | 23°59 | 22°39 | 25°20 | 28°29 | 21°57 | 29♒55 | 29°50 | 2°32 | n.a. | S 21 |
| S 22 | 15 45 6 | 26°39'37 | 7♑50 | 5°55 | 27°18 | 17°36 | 24° 9 | 22°35 | 25°23 | 28°31 | 21°59 | 29°46 | 29°47 | 2°39 | n.a. | S 22 |
| M23 | 15 49 3 | 27°36'44 | 21° 3 | 5°28 | 28°30 | 18°18 | 24°19 | 22°32 | 25°26 | 28°33 | 22° 0 | 29°40 | 29°44 | 2°46 | n.a. | M23 |
| T 24 | 15 52 59 | 28°33'52 | 3♒51 | 4°58 | 29°42 | 19° 1 | 24°29 | 22°29 | 25°29 | 28°35 | 22° 1 | 29°37 | 29°40 | 2°52 | n.a. | T 24 |
| W25 | 15 56 56 | 29°31'00 | 16°17 | 4°26 | 0♉53 | 19°44 | 24°39 | 22°26 | 25°32 | 28°38 | 22° 3 | 29°35 | 29°37 | 2°59 | n.a. | W25 |
| T 26 | 16 0 52 | 0♊28'07 | 28°26 | 3°52 | 2° 5 | 20°27 | 24°48 | 22°23 | 25°35 | 28°40 | 22° 4 | 29°35 | 29°34 | 3° 6 | n.a. | T 26 |
| F 27 | 16 4 49 | 1°25'14 | 10♓22 | 3°18 | 3°17 | 21° 9 | 24°58 | 22°20 | 25°38 | 28°42 | 22° 6 | 29°35 | 29°31 | 3°12 | n.a. | F 27 |
| S 28 | 16 8 46 | 2°22'22 | 22°12 | 2°42 | 4°29 | 21°52 | 25° 7 | 22°17 | 25°41 | 28°44 | 22° 7 | 29°34 | 29°28 | 3°19 | n.a. | S 28 |
| S 29 | 16 12 42 | 3°19'29 | 4♈ 1 | 2° 7 | 5°41 | 22°34 | 25°16 | 22°14 | 25°44 | 28°46 | 22° 8 | 29°31 | 29°25 | 3°26 | n.a. | S 29 |
| M30 | 16 16 39 | 4°16'37 | 15°52 | 1°33 | 6°53 | 23°16 | 25°26 | 22°11 | 25°47 | 28°49 | 22°10 | 29°26 | 29°21 | 3°32 | n.a. | M30 |
| T 31 | 16 20 35 | 5♊13'45 | 27♈51 | 1♊ 0 | 8♉ 5 | 23♓58 | 25♓35 | 22♎ 9 | 25♈50 | 28♉51 | 22♉11 | 29♒18 | 29♒18 | 3♈39 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| S 1 | 13n53 | 0n 7 | 2n 1 | 22n29 | 2n14 | 0s44 | 1s49 | 12s21 | 1s42 | 5s 2 | 1s15 | 6s54 | 2n41 | 9n 4 | 0s28 | 18n27 | 1s28 | 9n51 | 8s47 | 10s47 | 11s17 | 2n27 | | | n.a. |
| M 2 | 14 12 | 5 41 | 2 56 | 22 37 | 2 9 | 0 15 | 1 49 | 12 6 | 1 43 | 4 58 | 1 15 | 6 53 | 2 40 | 9 5 | 0 28 | 18 27 | 1 28 | 9 51 | 8 47 | 10 49 | 11 18 | 2 30 | | | n.a. |
| T 3 | 14 30 | 11 6 | 3 43 | 22 43 | 2 3 | 0n13 | 1 50 | 11 50 | 1 44 | 4 53 | 1 15 | 6 51 | 2 40 | 9 6 | 0 28 | 18 28 | 1 28 | 9 52 | 8 47 | 10 52 | 11 19 | 2 34 | | | n.a. |
| W 4 | 14 49 | 16 9 | 4 21 | 22 47 | 1 56 | 0 41 | 1 50 | 11 34 | 1 44 | 4 49 | 1 15 | 6 50 | 2 40 | 9 7 | 0 28 | 18 28 | 1 28 | 9 52 | 8 47 | 10 56 | 11 20 | 2 37 | | | n.a. |
| T 5 | 15 7 | 20 38 | 4 47 | 22 49 | 1 48 | 1 9 | 1 50 | 11 18 | 1 45 | 4 44 | 1 15 | 6 48 | 2 40 | 9 9 | 0 28 | 18 29 | 1 28 | 9 52 | 8 47 | 11 0 | 11 21 | 2 40 | | | n.a. |
| F 6 | 15 25 | 24 18 | 5 0 | 22 49 | 1 40 | 1 38 | 1 50 | 11 2 | 1 45 | 4 40 | 1 15 | 6 47 | 2 40 | 9 10 | 0 28 | 18 29 | 1 28 | 9 53 | 8 47 | 11 4 | 11 22 | 2 44 | | | n.a. |
| S 7 | 15 43 | 26 53 | 4 59 | 22 48 | 1 30 | 2 6 | 1 50 | 10 46 | 1 46 | 4 35 | 1 16 | 6 45 | 2 40 | 9 11 | 0 28 | 18 30 | 1 28 | 9 53 | 8 47 | 11 8 | 11 24 | 2 47 | | | n.a. |
| S 8 | 16 1 | 28 7 | 4 44 | 22 44 | 1 20 | 2 34 | 1 50 | 10 30 | 1 46 | 4 31 | 1 16 | 6 44 | 2 40 | 9 12 | 0 28 | 18 30 | 1 28 | 9 54 | 8 47 | 11 12 | 11 25 | 2 50 | | | n.a. |
| M 9 | 16 18 | 27 52 | 4 14 | 22 39 | 1 9 | 3 3 | 1 50 | 10 14 | 1 47 | 4 26 | 1 16 | 6 43 | 2 40 | 9 14 | 0 28 | 18 31 | 1 28 | 9 54 | 8 47 | 11 15 | 11 26 | 2 54 | | | n.a. |
| T 10 | 16 35 | 26 4 | 3 30 | 22 32 | 0 58 | 3 31 | 1 49 | 9 58 | 1 47 | 4 22 | 1 16 | 6 41 | 2 40 | 9 15 | 0 28 | 18 31 | 1 28 | 9 54 | 8 47 | 11 17 | 11 27 | 2 57 | | | n.a. |
| W11 | 16 52 | 22 46 | 2 33 | 22 24 | 0 45 | 3 59 | 1 49 | 9 42 | 1 48 | 4 18 | 1 16 | 6 40 | 2 39 | 9 16 | 0 28 | 18 32 | 1 28 | 9 55 | 8 47 | 11 18 | 11 28 | 3 1 | | | n.a. |
| T 12 | 17 8 | 18 11 | 1 28 | 22 14 | 0 32 | 4 27 | 1 49 | 9 26 | 1 49 | 4 13 | 1 17 | 6 39 | 2 39 | 9 17 | 0 28 | 18 33 | 1 28 | 9 55 | 8 47 | 11 18 | 11 29 | 3 4 | | | n.a. |
| F 13 | 17 25 | 12 33 | 0 15 | 22 2 | 0 18 | 4 55 | 1 48 | 9 9 | 1 49 | 4 9 | 1 17 | 6 37 | 2 39 | 9 18 | 0 28 | 18 33 | 1 28 | 9 56 | 8 47 | 11 18 | 11 30 | 3 7 | | | n.a. |
| S 14 | 17 40 | 6 10 | 1s 0 | 21 50 | 0 3 | 5 24 | 1 47 | 8 53 | 1 50 | 4 5 | 1 17 | 6 36 | 2 39 | 9 20 | 0 28 | 18 34 | 1 28 | 9 56 | 8 46 | 11 18 | 11 31 | 3 11 | | | n.a. |
| S 15 | 17 56 | 0s38 | 2 12 | 21 35 | 0s12 | 5 52 | 1 47 | 8 37 | 1 50 | 4 1 | 1 17 | 6 35 | 2 39 | 9 21 | 0 28 | 18 34 | 1 28 | 9 57 | 8 46 | 11 19 | 11 33 | 3 14 | | | n.a. |
| M16 | 18 12 | 7 30 | 3 16 | 21 20 | 0 28 | 6 19 | 1 46 | 8 20 | 1 51 | 3 57 | 1 17 | 6 34 | 2 39 | 9 22 | 0 28 | 18 35 | 1 28 | 9 57 | 8 46 | 11 20 | 11 34 | 3 17 | | | n.a. |
| T 17 | 18 27 | 14 1 | 4 8 | 21 3 | 0 44 | 6 47 | 1 45 | 8 4 | 1 51 | 3 53 | 1 18 | 6 32 | 2 38 | 9 23 | 0 28 | 18 35 | 1 28 | 9 57 | 8 46 | 11 23 | 11 35 | 3 21 | | | n.a. |
| W18 | 18 41 | 19 44 | 4 44 | 20 46 | 1 0 | 7 15 | 1 44 | 7 47 | 1 51 | 3 49 | 1 18 | 6 31 | 2 38 | 9 24 | 0 28 | 18 36 | 1 28 | 9 58 | 8 46 | 11 26 | 11 36 | 3 24 | | | n.a. |
| T 19 | 18 56 | 24 13 | 5 0 | 20 27 | 1 17 | 7 42 | 1 43 | 7 31 | 1 52 | 3 45 | 1 18 | 6 30 | 2 38 | 9 26 | 0 28 | 18 36 | 1 28 | 9 58 | 8 46 | 11 30 | 11 37 | 3 28 | | | n.a. |
| F 20 | 19 10 | 27 5 | 4 56 | 20 8 | 1 34 | 8 10 | 1 42 | 7 14 | 1 52 | 3 41 | 1 18 | 6 29 | 2 38 | 9 27 | 0 28 | 18 37 | 1 28 | 9 58 | 8 46 | 11 34 | 11 38 | 3 31 | | | n.a. |
| S 21 | 19 24 | 28 9 | 4 35 | 19 48 | 1 50 | 8 37 | 1 41 | 6 58 | 1 53 | 3 37 | 1 18 | 6 28 | 2 38 | 9 28 | 0 28 | 18 37 | 1 28 | 9 59 | 8 46 | 11 38 | 11 39 | 3 34 | | | n.a. |
| S 22 | 19 38 | 27 25 | 3 58 | 19 27 | 2 7 | 9 4 | 1 40 | 6 41 | 1 53 | 3 33 | 1 19 | 6 27 | 2 38 | 9 29 | 0 28 | 18 38 | 1 28 | 9 59 | 8 46 | 11 41 | 11 40 | 3 38 | | | n.a. |
| M23 | 19 51 | 25 9 | 3 9 | 19 7 | 2 23 | 9 31 | 1 39 | 6 25 | 1 54 | 3 29 | 1 19 | 6 26 | 2 37 | 9 30 | 0 28 | 18 38 | 1 28 | 10 0 | 8 46 | 11 43 | 11 42 | 3 41 | | | n.a. |
| T 24 | 20 4 | 21 38 | 2 12 | 18 46 | 2 39 | 9 58 | 1 38 | 6 8 | 1 54 | 3 25 | 1 19 | 6 25 | 2 37 | 9 31 | 0 28 | 18 39 | 1 28 | 10 0 | 8 46 | 11 44 | 11 43 | 3 44 | | | n.a. |
| W25 | 20 16 | 17 14 | 1 10 | 18 25 | 2 54 | 10 25 | 1 36 | 5 52 | 1 54 | 3 22 | 1 19 | 6 24 | 2 37 | 9 32 | 0 28 | 18 39 | 1 28 | 10 0 | 8 46 | 11 45 | 11 44 | 3 48 | | | n.a. |
| T 26 | 20 29 | 12 15 | 0 6 | 18 5 | 3 8 | 10 51 | 1 35 | 5 35 | 1 55 | 3 18 | 1 19 | 6 23 | 2 37 | 9 33 | 0 28 | 18 40 | 1 28 | 10 1 | 8 46 | 11 45 | 11 45 | 3 51 | | | n.a. |
| F 27 | 20 40 | 6 53 | 0n57 | 17 45 | 3 22 | 11 17 | 1 33 | 5 18 | 1 55 | 3 14 | 1 20 | 6 22 | 2 37 | 9 35 | 0 28 | 18 40 | 1 28 | 10 1 | 8 46 | 11 45 | 11 46 | 3 54 | | | n.a. |
| S 28 | 20 52 | 1 21 | 1 57 | 17 26 | 3 34 | 11 43 | 1 32 | 5 2 | 1 56 | 3 11 | 1 20 | 6 21 | 2 36 | 9 36 | 0 28 | 18 41 | 1 28 | 10 1 | 8 46 | 11 45 | 11 47 | 3 58 | | | n.a. |
| S 29 | 21 3 | 4n14 | 2 51 | 17 8 | 3 45 | 12 9 | 1 30 | 4 45 | 1 56 | 3 7 | 1 20 | 6 20 | 2 36 | 9 37 | 0 28 | 18 41 | 1 28 | 10 2 | 8 46 | 11 46 | 11 48 | 4 1 | | | n.a. |
| M30 | 21 14 | 9 40 | 3 39 | 16 52 | 3 55 | 12 34 | 1 29 | 4 29 | 1 56 | 3 4 | 1 20 | 6 19 | 2 36 | 9 38 | 0 28 | 18 42 | 1 28 | 10 2 | 8 46 | 11 48 | 11 49 | 4 4 | | | n.a. |
| T 31 | 21n25 | 14n49 | 4n17 | 16n37 | 4s 4 | 12n59 | 1s27 | 4s12 | 1s57 | 3s 0 | 1s21 | 6s19 | 2n36 | 9n39 | 0s28 | 18n42 | 1s28 | 10n 2 | 8s46 | 11s51 | 11s51 | 4n 8 | | | n.a. |

Julian Day Number = 1693053.5, Delta T = 03h09m28s
Ecliptic obliquity = 23°42'24, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°08'12, Lahiri = - 5°01'12 Julian Calendar 1 May 78 BCE == Greg. Calendar 29 Apr. 078 BCE

The year -77 astronomical counting style corresponds to year 078 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 78 BCE
# geocentric

## JUNE 78 BCE (-77) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 16 24 32 | 6♊10'52 | 10♉ 1 | 0°R29 | 9♉17 | 24♓40 | 25♓44 | 22°R 6 | 25♈52 | 28♉53 | 22♉13 | 29°R 7 | 29♒15 | 3♈46 | n.a. | W 1 |
| T 2 | 16 28 28 | 7° 8'00 | 22°23 | 0♊ 0 | 10°29 | 25°22 | 25°52 | 22♎ 3 | 25°55 | 28°55 | 22°14 | 28♒55 | 29°12 | 3°52 | n.a. | T 2 |
| F 3 | 16 32 25 | 8° 5'08 | 4♊58 | 29♉34 | 11°41 | 26° 4 | 26° 1 | 22° 1 | 25°58 | 28°58 | 22°15 | 28°42 | 29° 9 | 3°59 | n.a. | F 3 |
| S 4 | 16 36 22 | 9° 2'16 | 17°47 | 29°12 | 12°54 | 26°46 | 26°10 | 21°59 | 26° 1 | 29° 0 | 22°17 | 28°30 | 29° 6 | 4° 6 | n.a. | S 4 |
| S 5 | 16 40 18 | 9°59'25 | 0♋48 | 28°53 | 14° 6 | 27°28 | 26°18 | 21°56 | 26° 4 | 29° 2 | 22°18 | 28°19 | 29° 2 | 4°12 | n.a. | S 5 |
| M 6 | 16 44 15 | 10°56'33 | 14° 2 | 28°39 | 15°18 | 28° 9 | 26°26 | 21°54 | 26° 6 | 29° 4 | 22°19 | 28°10 | 28°59 | 4°19 | n.a. | M 6 |
| T 7 | 16 48 11 | 11°53'41 | 27°26 | 28°29 | 16°30 | 28°51 | 26°34 | 21°52 | 26° 9 | 29° 6 | 22°21 | 28° 5 | 28°56 | 4°26 | n.a. | T 7 |
| W 8 | 16 52 8 | 12°50'49 | 11♌ 1 | 28°23 | 17°43 | 29°32 | 26°42 | 21°50 | 26°12 | 29° 9 | 22°22 | 28° 2 | 28°53 | 4°32 | n.a. | W 8 |
| T 9 | 16 56 4 | 13°47'56 | 24°46 | 28°D23 | 18°55 | 0♈14 | 26°50 | 21°48 | 26°14 | 29°11 | 22°23 | 28°D 1 | 28°50 | 4°39 | n.a. | T 9 |
| F 10 | 17 0 1 | 14°45'04 | 8♍41 | 28°27 | 20° 7 | 0°55 | 26°58 | 21°46 | 26°17 | 29°13 | 22°25 | 28°R 1 | 28°46 | 4°46 | n.a. | F 10 |
| S 11 | 17 3 57 | 15°42'12 | 22°45 | 28°37 | 21°20 | 1°36 | 27° 5 | 21°45 | 26°19 | 29°15 | 22°26 | 28° 1 | 28°43 | 4°52 | n.a. | S 11 |
| S 12 | 17 7 54 | 16°39'19 | 6♎59 | 28°52 | 22°32 | 2°17 | 27°13 | 21°43 | 26°22 | 29°17 | 22°27 | 27°59 | 28°40 | 4°59 | n.a. | S 12 |
| M13 | 17 11 51 | 17°36'27 | 21°21 | 29°12 | 23°45 | 2°58 | 27°20 | 21°41 | 26°24 | 29°19 | 22°29 | 27°56 | 28°37 | 5° 6 | n.a. | M13 |
| T 14 | 17 15 47 | 18°33'35 | 5♏46 | 29°38 | 24°57 | 3°38 | 27°27 | 21°40 | 26°27 | 29°22 | 22°30 | 27°50 | 28°34 | 5°12 | n.a. | T 14 |
| W15 | 17 19 44 | 19°30'43 | 20°12 | 0♊ 8 | 26°10 | 4°19 | 27°34 | 21°39 | 26°29 | 29°24 | 22°31 | 27°41 | 28°31 | 5°19 | n.a. | W15 |
| T 16 | 17 23 40 | 20°27'51 | 4♐31 | 0°44 | 27°22 | 4°59 | 27°41 | 21°37 | 26°32 | 29°26 | 22°32 | 27°31 | 28°27 | 5°26 | n.a. | T 16 |
| F 17 | 17 27 37 | 21°25'00 | 18°38 | 1°25 | 28°35 | 5°40 | 27°48 | 21°36 | 26°34 | 29°28 | 22°34 | 27°21 | 28°24 | 5°32 | n.a. | F 17 |
| S 18 | 17 31 33 | 22°22'09 | 2♑28 | 2°12 | 29°47 | 6°20 | 27°54 | 21°35 | 26°36 | 29°30 | 22°35 | 27°12 | 28°21 | 5°39 | n.a. | S 18 |
| S 19 | 17 35 30 | 23°19'19 | 15°57 | 3° 3 | 1♊ 0 | 7° 0 | 28° 1 | 21°34 | 26°38 | 29°32 | 22°36 | 27° 4 | 28°18 | 5°46 | n.a. | S 19 |
| M20 | 17 39 27 | 24°16'29 | 29° 4 | 4° 0 | 2°13 | 7°40 | 28° 7 | 21°33 | 26°41 | 29°34 | 22°37 | 26°58 | 28°15 | 5°53 | n.a. | M20 |
| T 21 | 17 43 23 | 25°13'40 | 11♒49 | 5° 2 | 3°26 | 8°20 | 28°13 | 21°32 | 26°43 | 29°36 | 22°39 | 26°55 | 28°12 | 5°59 | n.a. | T 21 |
| W22 | 17 47 20 | 26°10'52 | 24°14 | 6° 8 | 4°38 | 8°59 | 28°19 | 21°32 | 26°45 | 29°38 | 22°40 | 26°D54 | 28° 8 | 6° 6 | n.a. | W22 |
| T 23 | 17 51 16 | 27° 8'05 | 6♓23 | 7°20 | 5°51 | 9°39 | 28°24 | 21°31 | 26°47 | 29°40 | 22°41 | 26°54 | 28° 5 | 6°13 | n.a. | T 23 |
| F 24 | 17 55 13 | 28° 5'18 | 18°21 | 8°36 | 7° 4 | 10°18 | 28°30 | 21°30 | 26°49 | 29°42 | 22°42 | 26°55 | 28° 2 | 6°19 | n.a. | F 24 |
| S 25 | 17 59 9 | 29° 2'33 | 0♈12 | 9°57 | 8°17 | 10°58 | 28°35 | 21°30 | 26°51 | 29°44 | 22°43 | 26°R55 | 27°59 | 6°26 | n.a. | S 25 |
| S 26 | 18 3 6 | 29°59'48 | 12° 2 | 11°22 | 9°30 | 11°37 | 28°41 | 21°30 | 26°53 | 29°46 | 22°45 | 26°55 | 27°56 | 6°33 | n.a. | S 26 |
| M27 | 18 7 2 | 0♋57'05 | 23°57 | 12°52 | 10°43 | 12°16 | 28°46 | 21°29 | 26°55 | 29°48 | 22°46 | 26°52 | 27°52 | 6°39 | n.a. | M27 |
| T 28 | 18 10 59 | 1°54'23 | 6♉ 0 | 14°26 | 11°56 | 12°55 | 28°51 | 21°29 | 26°57 | 29°50 | 22°47 | 26°47 | 27°49 | 6°46 | n.a. | T 28 |
| W29 | 18 14 56 | 2°51'42 | 18°15 | 16° 4 | 13° 9 | 13°33 | 28°55 | 21°D29 | 26°59 | 29°52 | 22°48 | 26°40 | 27°46 | 6°53 | n.a. | W29 |
| T 30 | 18 18 52 | 3♋49'02 | 0♊46 | 17♊46 | 14♊22 | 14♈12 | 29♓ 0 | 21♎29 | 27♈ 1 | 29♉54 | 22♉49 | 26♒32 | 27♒43 | 6♈59 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 21n35 | 19n28 | 4n44 | 16n23 | 4s11 | 13n24 | 1s25 | 3s55 | 1s57 | 2s57 | 1s21 | 6s18 | 2n36 | 9n40 | 0s28 | 18n43 | 1s28 | 10n 3 | 8s46 | 11s55 | 11s52 | 4n11 | | n.a. |
| T 2 | 21 45 | 23 22 | 4 58 | 16 12 | 4 17 | 13 49 | 1 23 | 3 39 | 1 57 | 2 54 | 1 21 | 6 17 | 2 35 | 9 41 | 0 28 | 18 43 | 1 28 | 10 3 | 8 46 | 11 59 | 11 53 | 4 15 | | n.a. |
| F 3 | 21 54 | 26 15 | 4 59 | 16 2 | 4 21 | 14 13 | 1 21 | 3 22 | 1 58 | 2 50 | 1 21 | 6 16 | 2 35 | 9 42 | 0 28 | 18 44 | 1 28 | 10 3 | 8 46 | 12 3 | 11 54 | 4 18 | | n.a. |
| S 4 | 22 3 | 27 51 | 4 44 | 15 55 | 4 24 | 14 37 | 1 20 | 3 6 | 1 58 | 2 47 | 1 22 | 6 16 | 2 35 | 9 43 | 0 28 | 18 44 | 1 28 | 10 4 | 8 46 | 12 8 | 11 55 | 4 21 | | n.a. |
| S 5 | 22 12 | 27 56 | 4 14 | 15 49 | 4 25 | 15 1 | 1 18 | 2 49 | 1 58 | 2 44 | 1 22 | 6 15 | 2 35 | 9 44 | 0 28 | 18 45 | 1 28 | 10 4 | 8 46 | 12 12 | 11 56 | 4 25 | | n.a. |
| M 6 | 22 20 | 26 27 | 3 30 | 15 46 | 4 25 | 15 24 | 1 16 | 2 33 | 1 58 | 2 41 | 1 22 | 6 15 | 2 34 | 9 45 | 0 29 | 18 45 | 1 28 | 10 4 | 8 46 | 12 14 | 11 57 | 4 28 | | n.a. |
| T 7 | 22 28 | 23 26 | 2 34 | 15 45 | 4 24 | 15 47 | 1 14 | 2 16 | 1 59 | 2 38 | 1 22 | 6 14 | 2 34 | 9 46 | 0 29 | 18 45 | 1 28 | 10 5 | 8 46 | 12 16 | 11 58 | 4 31 | | n.a. |
| W 8 | 22 36 | 19 5 | 1 29 | 15 47 | 4 21 | 16 10 | 1 12 | 2 0 | 1 59 | 2 35 | 1 22 | 6 13 | 2 34 | 9 47 | 0 29 | 18 46 | 1 28 | 10 5 | 8 46 | 12 18 | 12 0 | 4 35 | | n.a. |
| T 9 | 22 43 | 13 41 | 0 17 | 15 51 | 4 17 | 16 32 | 1 9 | 1 44 | 1 59 | 2 32 | 1 23 | 6 13 | 2 34 | 9 48 | 0 29 | 18 46 | 1 28 | 10 5 | 8 46 | 12 18 | 12 1 | 4 38 | | n.a. |
| F 10 | 22 49 | 7 32 | 0s56 | 15 57 | 4 12 | 16 53 | 1 7 | 1 27 | 2 0 | 2 29 | 1 23 | 6 12 | 2 33 | 9 49 | 0 29 | 18 47 | 1 28 | 10 6 | 8 46 | 12 18 | 12 2 | 4 41 | | n.a. |
| S 11 | 22 56 | 0 58 | 2 7 | 16 5 | 4 5 | 17 15 | 1 5 | 1 11 | 2 0 | 2 26 | 1 23 | 6 12 | 2 33 | 9 50 | 0 29 | 18 47 | 1 28 | 10 6 | 8 46 | 12 18 | 12 3 | 4 45 | | n.a. |
| S 12 | 23 2 | 5s43 | 3 11 | 16 15 | 3 58 | 17 36 | 1 3 | 0 55 | 2 0 | 2 24 | 1 24 | 6 12 | 2 33 | 9 50 | 0 29 | 18 48 | 1 28 | 10 6 | 8 46 | 12 18 | 12 4 | 4 48 | | n.a. |
| M13 | 23 7 | 12 10 | 4 4 | 16 28 | 3 50 | 17 56 | 1 1 | 0 39 | 2 0 | 2 21 | 1 24 | 6 11 | 2 33 | 9 51 | 0 29 | 18 48 | 1 28 | 10 7 | 8 46 | 12 20 | 12 5 | 4 51 | | n.a. |
| T 14 | 23 12 | 18 0 | 4 41 | 16 42 | 3 41 | 18 16 | 0 58 | 0 23 | 2 0 | 2 18 | 1 24 | 6 11 | 2 32 | 9 52 | 0 29 | 18 49 | 1 28 | 10 7 | 8 46 | 12 22 | 12 6 | 4 55 | | n.a. |
| W15 | 23 17 | 22 48 | 5 0 | 16 58 | 3 31 | 18 36 | 0 56 | 0 6 | 2 1 | 2 16 | 1 24 | 6 11 | 2 32 | 9 53 | 0 29 | 18 49 | 1 28 | 10 7 | 8 46 | 12 25 | 12 7 | 4 58 | | n.a. |
| T 16 | 23 22 | 26 12 | 5 0 | 17 16 | 3 20 | 18 55 | 0 54 | 0n10 | 2 1 | 2 13 | 1 25 | 6 10 | 2 32 | 9 54 | 0 29 | 18 50 | 1 28 | 10 7 | 8 46 | 12 28 | 12 8 | 5 1 | | n.a. |
| F 17 | 23 25 | 27 54 | 4 42 | 17 35 | 3 9 | 19 14 | 0 51 | 0 26 | 2 1 | 2 11 | 1 25 | 6 10 | 2 32 | 9 55 | 0 29 | 18 50 | 1 28 | 10 8 | 8 46 | 12 32 | 12 10 | 5 5 | | n.a. |
| S 18 | 23 29 | 27 49 | 4 8 | 17 56 | 2 57 | 19 32 | 0 49 | 0 41 | 2 1 | 2 8 | 1 25 | 6 10 | 2 31 | 9 56 | 0 29 | 18 51 | 1 28 | 10 8 | 8 46 | 12 35 | 12 11 | 5 8 | | n.a. |
| S 19 | 23 32 | 26 3 | 3 20 | 18 18 | 2 45 | 19 50 | 0 46 | 0 57 | 2 1 | 2 6 | 1 25 | 6 10 | 2 31 | 9 56 | 0 29 | 18 51 | 1 28 | 10 8 | 8 47 | 12 38 | 12 12 | 5 11 | | n.a. |
| M20 | 23 35 | 22 54 | 2 23 | 18 41 | 2 33 | 20 7 | 0 44 | 1 13 | 2 1 | 2 4 | 1 26 | 6 10 | 2 31 | 9 57 | 0 29 | 18 51 | 1 28 | 10 8 | 8 47 | 12 40 | 12 13 | 5 14 | | n.a. |
| T 21 | 23 37 | 18 43 | 1 20 | 19 5 | 2 20 | 20 24 | 0 42 | 1 29 | 2 1 | 2 2 | 1 26 | 6 10 | 2 31 | 9 58 | 0 29 | 18 52 | 1 28 | 10 9 | 8 47 | 12 41 | 12 14 | 5 18 | | n.a. |
| W22 | 23 39 | 13 49 | 0 14 | 19 30 | 2 6 | 20 40 | 0 39 | 1 45 | 2 2 | 2 0 | 1 26 | 6 10 | 2 30 | 9 59 | 0 29 | 18 52 | 1 28 | 10 9 | 8 47 | 12 41 | 12 15 | 5 21 | | n.a. |
| T 23 | 23 40 | 8 29 | 0n51 | 19 55 | 1 53 | 20 55 | 0 37 | 2 0 | 2 2 | 1 58 | 1 26 | 6 10 | 2 30 | 10 0 | 0 29 | 18 53 | 1 28 | 10 9 | 8 47 | 12 41 | 12 16 | 5 24 | | n.a. |
| F 24 | 23 42 | 2 56 | 1 52 | 20 21 | 1 39 | 21 10 | 0 34 | 2 16 | 2 2 | 1 56 | 1 27 | 6 10 | 2 30 | 10 0 | 0 29 | 18 53 | 1 28 | 10 9 | 8 47 | 12 41 | 12 17 | 5 28 | | n.a. |
| S 25 | 23 42 | 2n39 | 2 49 | 20 47 | 1 25 | 21 25 | 0 31 | 2 31 | 2 2 | 1 54 | 1 27 | 6 10 | 2 30 | 10 1 | 0 29 | 18 54 | 1 28 | 10 10 | 8 47 | 12 40 | 12 18 | 5 31 | | n.a. |
| S 26 | 23 42 | 8 8 | 3 38 | 21 13 | 1 12 | 21 39 | 0 29 | 2 47 | 2 2 | 1 52 | 1 27 | 6 10 | 2 29 | 10 2 | 0 29 | 18 54 | 1 28 | 10 10 | 8 47 | 12 41 | 12 20 | 5 34 | | n.a. |
| M27 | 23 42 | 13 22 | 4 17 | 21 38 | 0 58 | 21 52 | 0 26 | 3 2 | 2 2 | 1 50 | 1 28 | 6 10 | 2 29 | 10 2 | 0 29 | 18 54 | 1 28 | 10 10 | 8 47 | 12 42 | 12 21 | 5 38 | | n.a. |
| T 28 | 23 42 | 18 9 | 4 46 | 22 3 | 0 45 | 22 5 | 0 24 | 3 17 | 2 2 | 1 48 | 1 28 | 6 10 | 2 29 | 10 3 | 0 29 | 18 55 | 1 28 | 10 10 | 8 47 | 12 43 | 12 22 | 5 41 | | n.a. |
| W29 | 23 41 | 22 18 | 5 3 | 22 27 | 0 31 | 22 17 | 0 21 | 3 32 | 2 2 | 1 47 | 1 28 | 6 11 | 2 28 | 10 4 | 0 29 | 18 55 | 1 28 | 10 10 | 8 47 | 12 46 | 12 23 | 5 44 | | n.a. |
| T 30 | 23n39 | 25n30 | 5n 5 | 22n50 | 0s18 | 22n28 | 0s19 | 3n47 | 2s 2 | 1s45 | 1s28 | 6s11 | 2n28 | 10n 4 | 0s29 | 18n56 | 1s28 | 10n11 | 8s47 | 12s49 | 12s24 | 5n48 | | n.a. |

Julian Day Number = 1693084.5, Delta T = 03h09m27s
Ecliptic obliquity = 23°42'24, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°08'08, Lahiri = - 5°01'08 Julian Calendar 1 June 78 BCE == Greg. Calendar 30 May 078 BCE

The year -77 astronomical counting style corresponds to year 078 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 78 BCE
# geocentric

## JULY 78 BCE (-77) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 18 22 49 | 4♋46'23 | 13♊34 | 19♊32 | 15♊35 | 14♈50 | 29♓ 4 | 21♎29 | 27♈ 2 | 29♉56 | 22♉50 | 26°R23 | 27♒40 | 7♈ 6 | n.a. | F 1 |
| S 2 | 18 26 45 | 5°43'45 | 26°39 | 21°21 | 16°48 | 15°29 | 29° 8 | 21°30 | 27° 4 | 29°58 | 22°51 | 26♒14 | 27°37 | 7°13 | n.a. | S 2 |
| S 3 | 18 30 42 | 6°41'08 | 10♋ 1 | 23°13 | 18° 2 | 16° 7 | 29°12 | 21°30 | 27° 6 | 29°59 | 22°52 | 26° 6 | 27°33 | 7°19 | n.a. | S 3 |
| M 4 | 18 34 38 | 7°38'32 | 23°38 | 25° 7 | 19°15 | 16°45 | 29°16 | 21°30 | 27° 8 | 0♊ 2 | 22°53 | 26° 1 | 27°30 | 7°26 | n.a. | M 4 |
| T 5 | 18 38 35 | 8°35'57 | 7♌26 | 27° 4 | 20°28 | 17°22 | 29°20 | 21°31 | 27° 9 | 0° 4 | 22°54 | 25°57 | 27°27 | 7°33 | n.a. | T 5 |
| W 6 | 18 42 31 | 9°33'23 | 21°24 | 29° 3 | 21°41 | 18° 0 | 29°23 | 21°31 | 27°11 | 0° 6 | 22°55 | 25°D56 | 27°24 | 7°39 | n.a. | W 6 |
| T 7 | 18 46 28 | 10°30'49 | 5♍28 | 1♋ 4 | 22°55 | 18°37 | 29°27 | 21°32 | 27°12 | 0° 7 | 22°56 | 25°56 | 27°21 | 7°46 | n.a. | T 7 |
| F 8 | 18 50 25 | 11°28'17 | 19°36 | 3° 5 | 24° 8 | 19°15 | 29°30 | 21°33 | 27°14 | 0° 9 | 22°57 | 25°57 | 27°18 | 7°53 | n.a. | F 8 |
| S 9 | 18 54 21 | 12°25'45 | 3♎46 | 5° 8 | 25°22 | 19°52 | 29°33 | 21°34 | 27°15 | 0°11 | 22°58 | 25°58 | 27°14 | 7°59 | n.a. | S 9 |
| S 10 | 18 58 18 | 13°23'14 | 17°57 | 7°12 | 26°35 | 20°28 | 29°35 | 21°35 | 27°16 | 0°13 | 22°59 | 25°R58 | 27°11 | 8° 6 | n.a. | S 10 |
| M11 | 19 2 14 | 14°20'44 | 2♏ 6 | 9°16 | 27°49 | 21° 5 | 29°38 | 21°36 | 27°18 | 0°14 | 23° 0 | 25°57 | 27° 8 | 8°13 | n.a. | M11 |
| T 12 | 19 6 11 | 15°18'15 | 16°13 | 11°20 | 29° 2 | 21°42 | 29°40 | 21°37 | 27°19 | 0°16 | 23° 1 | 25°54 | 27° 5 | 8°19 | n.a. | T 12 |
| W13 | 19 10 7 | 16°15'48 | 0♐14 | 13°23 | 0♋16 | 22°18 | 29°42 | 21°38 | 27°20 | 0°18 | 23° 2 | 25°49 | 27° 2 | 8°26 | n.a. | W13 |
| T 14 | 19 14 4 | 17°13'21 | 14° 6 | 15°26 | 1°29 | 22°54 | 29°44 | 21°40 | 27°21 | 0°19 | 23° 3 | 25°43 | 26°58 | 8°33 | n.a. | T 14 |
| F 15 | 19 18 0 | 18°10'55 | 27°47 | 17°29 | 2°43 | 23°30 | 29°46 | 21°41 | 27°23 | 0°21 | 23° 4 | 25°37 | 26°55 | 8°39 | n.a. | F 15 |
| S 16 | 19 21 57 | 19° 8'31 | 11♑13 | 19°31 | 3°56 | 24° 6 | 29°48 | 21°43 | 27°24 | 0°23 | 23° 5 | 25°32 | 26°52 | 8°46 | n.a. | S 16 |
| S 17 | 19 25 54 | 20° 6'08 | 24°23 | 21°32 | 5°10 | 24°41 | 29°49 | 21°45 | 27°25 | 0°24 | 23° 6 | 25°27 | 26°49 | 8°53 | n.a. | S 17 |
| M18 | 19 29 50 | 21° 3'46 | 7♒16 | 23°32 | 6°24 | 25°16 | 29°50 | 21°46 | 27°26 | 0°26 | 23° 7 | 25°24 | 26°46 | 9° 0 | n.a. | M18 |
| T 19 | 19 33 47 | 22° 1'26 | 19°51 | 25°30 | 7°38 | 25°51 | 29°51 | 21°48 | 27°27 | 0°27 | 23° 7 | 25°D23 | 26°43 | 9° 6 | n.a. | T 19 |
| W20 | 19 37 43 | 22°59'07 | 2♓11 | 27°28 | 8°51 | 26°26 | 29°52 | 21°50 | 27°28 | 0°29 | 23° 8 | 25°23 | 26°39 | 9°13 | n.a. | W20 |
| T 21 | 19 41 40 | 23°56'50 | 14°18 | 29°24 | 10° 5 | 27° 1 | 29°52 | 21°52 | 27°28 | 0°30 | 23° 9 | 25°24 | 26°36 | 9°20 | n.a. | T 21 |
| F 22 | 19 45 36 | 24°54'35 | 26°15 | 1♏19 | 11°19 | 27°35 | 29°53 | 21°54 | 27°29 | 0°32 | 23°10 | 25°26 | 26°33 | 9°26 | n.a. | F 22 |
| S 23 | 19 49 33 | 25°52'21 | 8♈ 6 | 3°13 | 12°33 | 28°10 | 29°R53 | 21°57 | 27°30 | 0°33 | 23°10 | 25°27 | 26°30 | 9°33 | n.a. | S 23 |
| S 24 | 19 53 29 | 26°50'09 | 19°57 | 5° 5 | 13°47 | 28°44 | 29°53 | 21°59 | 27°31 | 0°35 | 23°11 | 25°28 | 26°27 | 9°40 | n.a. | S 24 |
| M25 | 19 57 26 | 27°47'59 | 1♉52 | 6°56 | 15° 1 | 29°17 | 29°53 | 22° 1 | 27°31 | 0°36 | 23°12 | 25°R29 | 26°24 | 9°46 | n.a. | M25 |
| T 26 | 20 1 23 | 28°45'51 | 13°56 | 8°46 | 16°15 | 29°51 | 29°52 | 22° 4 | 27°32 | 0°38 | 23°13 | 25°28 | 26°20 | 9°53 | n.a. | T 26 |
| W27 | 20 5 19 | 29°43'45 | 26°13 | 10°34 | 17°29 | 0♉24 | 29°52 | 22° 6 | 27°33 | 0°39 | 23°13 | 25°25 | 26°17 | 10° 0 | n.a. | W27 |
| T 28 | 20 9 16 | 0♌41'41 | 8♊47 | 12°21 | 18°43 | 0°57 | 29°51 | 22° 9 | 27°33 | 0°40 | 23°14 | 25°22 | 26°14 | 10° 6 | n.a. | T 28 |
| F 29 | 20 13 12 | 1°39'39 | 21°42 | 14° 6 | 19°57 | 1°30 | 29°50 | 22°12 | 27°34 | 0°42 | 23°15 | 25°19 | 26°11 | 10°13 | n.a. | F 29 |
| S 30 | 20 17 9 | 2°37'38 | 4♋58 | 15°51 | 21°11 | 2° 2 | 29°49 | 22°15 | 27°34 | 0°43 | 23°15 | 25°15 | 26° 8 | 10°20 | n.a. | S 30 |
| S 31 | 20 21 5 | 3♌35'40 | 18♋35 | 17♌34 | 22♋26 | 2♉34 | 29♓47 | 22♎18 | 27♈34 | 0♊44 | 23♉16 | 25♒12 | 26♒ 4 | 10♈26 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 23n37 | 27n31 | 4n53 | 23n11 | 0s 6 | 22n39 | 0s16 | 4n 2 | 2s 2 | 1s44 | 1s29 | 6s11 | 2n28 | 10n 5 | 0s29 | 18n56 | 1s28 | 10n11 | 8s47 | 12s52 | 12s25 | 5n51 | | n.a. |
| S 2 | 23 35 | 28 4 | 4 25 | 23 31 | 0n 6 | 22 49 | 0 14 | 4 17 | 2 2 | 1 42 | 1 29 | 6 11 | 2 28 | 10 6 | 0 29 | 18 56 | 1 28 | 10 11 | 8 47 | 12 55 | 12 26 | 5 54 | | n.a. |
| S 3 | 23 32 | 27 0 | 3 41 | 23 50 | 0 18 | 22 59 | 0 11 | 4 32 | 2 2 | 1 41 | 1 29 | 6 12 | 2 27 | 10 6 | 0 29 | 18 57 | 1 28 | 10 11 | 8 48 | 12 57 | 12 27 | 5 57 | | n.a. |
| M 4 | 23 29 | 24 19 | 2 45 | 24 6 | 0 29 | 23 8 | 0 8 | 4 47 | 2 2 | 1 40 | 1 30 | 6 12 | 2 27 | 10 7 | 0 29 | 18 57 | 1 28 | 10 11 | 8 48 | 12 59 | 12 28 | 6 1 | | n.a. |
| T 5 | 23 25 | 20 12 | 1 38 | 24 20 | 0 39 | 23 16 | 0 6 | 5 1 | 2 2 | 1 38 | 1 30 | 6 13 | 2 27 | 10 7 | 0 29 | 18 57 | 1 28 | 10 11 | 8 48 | 13 1 | 12 30 | 6 4 | | n.a. |
| W 6 | 23 21 | 14 55 | 0 24 | 24 31 | 0 49 | 23 23 | 0 3 | 5 16 | 2 2 | 1 37 | 1 30 | 6 13 | 2 27 | 10 8 | 0 29 | 18 58 | 1 28 | 10 12 | 8 48 | 13 1 | 12 31 | 6 7 | | n.a. |
| T 7 | 23 17 | 8 49 | 0s51 | 24 40 | 0 58 | 23 30 | 0 1 | 5 30 | 2 2 | 1 36 | 1 30 | 6 14 | 2 26 | 10 9 | 0 29 | 18 58 | 1 28 | 10 12 | 8 48 | 13 1 | 12 32 | 6 11 | | n.a. |
| F 8 | 23 12 | 2 15 | 2 5 | 24 47 | 1 7 | 23 36 | 0n 2 | 5 44 | 2 2 | 1 35 | 1 31 | 6 14 | 2 26 | 10 9 | 0 29 | 18 59 | 1 28 | 10 12 | 8 48 | 13 1 | 12 33 | 6 14 | | n.a. |
| S 9 | 23 7 | 4s25 | 3 10 | 24 50 | 1 14 | 23 42 | 0 4 | 5 59 | 2 2 | 1 34 | 1 31 | 6 15 | 2 26 | 10 10 | 0 29 | 18 59 | 1 28 | 10 12 | 8 48 | 13 0 | 12 34 | 6 17 | | n.a. |
| S 10 | 23 1 | 10 52 | 4 4 | 24 51 | 1 21 | 23 47 | 0 7 | 6 13 | 2 2 | 1 34 | 1 31 | 6 15 | 2 26 | 10 10 | 0 29 | 18 59 | 1 28 | 10 12 | 8 48 | 13 0 | 12 35 | 6 21 | | n.a. |
| M11 | 22 55 | 16 46 | 4 44 | 24 49 | 1 27 | 23 51 | 0 9 | 6 27 | 2 1 | 1 33 | 1 32 | 6 16 | 2 25 | 10 10 | 0 29 | 19 0 | 1 28 | 10 12 | 8 48 | 13 1 | 12 36 | 6 24 | | n.a. |
| T 12 | 22 49 | 21 44 | 5 5 | 24 45 | 1 32 | 23 54 | 0 12 | 6 40 | 2 1 | 1 32 | 1 32 | 6 17 | 2 25 | 10 11 | 0 29 | 19 0 | 1 28 | 10 12 | 8 48 | 13 2 | 12 37 | 6 27 | | n.a. |
| W13 | 22 42 | 25 27 | 5 9 | 24 37 | 1 36 | 23 57 | 0 14 | 6 54 | 2 1 | 1 32 | 1 32 | 6 18 | 2 25 | 10 11 | 0 29 | 19 0 | 1 28 | 10 13 | 8 49 | 13 3 | 12 38 | 6 30 | | n.a. |
| T 14 | 22 35 | 27 37 | 4 54 | 24 27 | 1 40 | 23 59 | 0 17 | 7 8 | 2 1 | 1 31 | 1 33 | 6 18 | 2 24 | 10 12 | 0 29 | 19 1 | 1 28 | 10 13 | 8 49 | 13 5 | 12 39 | 6 34 | | n.a. |
| F 15 | 22 27 | 28 4 | 4 23 | 24 15 | 1 43 | 24 0 | 0 19 | 7 21 | 2 1 | 1 31 | 1 33 | 6 19 | 2 24 | 10 12 | 0 29 | 19 1 | 1 28 | 10 13 | 8 49 | 13 7 | 12 41 | 6 37 | | n.a. |
| S 16 | 22 19 | 26 50 | 3 37 | 24 0 | 1 45 | 24 0 | 0 22 | 7 35 | 2 1 | 1 30 | 1 33 | 6 20 | 2 24 | 10 13 | 0 29 | 19 1 | 1 28 | 10 13 | 8 49 | 13 9 | 12 42 | 6 40 | | n.a. |
| S 17 | 22 11 | 24 7 | 2 41 | 23 43 | 1 46 | 24 0 | 0 24 | 7 48 | 2 0 | 1 30 | 1 33 | 6 21 | 2 24 | 10 13 | 0 29 | 19 1 | 1 28 | 10 13 | 8 49 | 13 11 | 12 43 | 6 43 | | n.a. |
| M18 | 22 2 | 20 14 | 1 37 | 23 23 | 1 47 | 23 59 | 0 26 | 8 1 | 2 0 | 1 30 | 1 34 | 6 22 | 2 23 | 10 13 | 0 29 | 19 2 | 1 28 | 10 13 | 8 49 | 13 12 | 12 44 | 6 47 | | n.a. |
| T 19 | 21 53 | 15 30 | 0 30 | 23 2 | 1 47 | 23 58 | 0 29 | 8 14 | 2 0 | 1 30 | 1 34 | 6 23 | 2 23 | 10 14 | 0 29 | 19 2 | 1 28 | 10 13 | 8 49 | 13 12 | 12 45 | 6 50 | | n.a. |
| W20 | 21 43 | 10 14 | 0n37 | 22 39 | 1 47 | 23 55 | 0 31 | 8 27 | 2 0 | 1 30 | 1 34 | 6 24 | 2 23 | 10 14 | 0 29 | 19 2 | 1 28 | 10 13 | 8 49 | 13 12 | 12 46 | 6 53 | | n.a. |
| T 21 | 21 33 | 4 41 | 1 42 | 22 14 | 1 46 | 23 52 | 0 33 | 8 40 | 1 59 | 1 30 | 1 35 | 6 25 | 2 23 | 10 14 | 0 29 | 19 3 | 1 28 | 10 13 | 8 49 | 13 12 | 12 47 | 6 57 | | n.a. |
| F 22 | 21 23 | 0n57 | 2 41 | 21 47 | 1 44 | 23 48 | 0 35 | 8 53 | 1 59 | 1 30 | 1 35 | 6 26 | 2 22 | 10 14 | 0 29 | 19 3 | 1 28 | 10 13 | 8 50 | 13 11 | 12 48 | 7 0 | | n.a. |
| S 23 | 21 12 | 6 30 | 3 33 | 21 18 | 1 42 | 23 44 | 0 38 | 9 5 | 1 59 | 1 30 | 1 35 | 6 27 | 2 22 | 10 15 | 0 29 | 19 3 | 1 28 | 10 13 | 8 50 | 13 11 | 12 49 | 7 3 | | n.a. |
| S 24 | 21 1 | 11 49 | 4 16 | 20 49 | 1 39 | 23 39 | 0 40 | 9 18 | 1 59 | 1 30 | 1 36 | 6 28 | 2 22 | 10 15 | 0 29 | 19 3 | 1 29 | 10 13 | 8 50 | 13 10 | 12 50 | 7 6 | | n.a. |
| M25 | 20 50 | 16 45 | 4 48 | 20 18 | 1 36 | 23 33 | 0 42 | 9 30 | 1 58 | 1 31 | 1 36 | 6 29 | 2 22 | 10 15 | 0 29 | 19 4 | 1 29 | 10 13 | 8 50 | 13 10 | 12 51 | 7 10 | | n.a. |
| T 26 | 20 38 | 21 5 | 5 8 | 19 45 | 1 33 | 23 26 | 0 44 | 9 42 | 1 58 | 1 31 | 1 36 | 6 30 | 2 21 | 10 15 | 0 29 | 19 4 | 1 29 | 10 14 | 8 50 | 13 11 | 12 53 | 7 13 | | n.a. |
| W27 | 20 26 | 24 36 | 5 14 | 19 12 | 1 29 | 23 19 | 0 46 | 9 54 | 1 58 | 1 32 | 1 36 | 6 31 | 2 21 | 10 16 | 0 29 | 19 4 | 1 29 | 10 14 | 8 50 | 13 11 | 12 54 | 7 16 | | n.a. |
| T 28 | 20 14 | 27 2 | 5 5 | 18 38 | 1 24 | 23 10 | 0 48 | 10 6 | 1 57 | 1 32 | 1 37 | 6 33 | 2 21 | 10 16 | 0 29 | 19 4 | 1 29 | 10 14 | 8 50 | 13 12 | 12 55 | 7 19 | | n.a. |
| F 29 | 20 1 | 28 8 | 4 42 | 18 3 | 1 19 | 23 2 | 0 50 | 10 18 | 1 57 | 1 33 | 1 37 | 6 34 | 2 20 | 10 16 | 0 29 | 19 5 | 1 29 | 10 14 | 8 51 | 13 14 | 12 56 | 7 23 | | n.a. |
| S 30 | 19 48 | 27 39 | 4 2 | 17 27 | 1 14 | 22 52 | 0 52 | 10 29 | 1 57 | 1 34 | 1 37 | 6 35 | 2 20 | 10 16 | 0 29 | 19 5 | 1 29 | 10 14 | 8 51 | 13 15 | 12 57 | 7 26 | | n.a. |
| S 31 | 19n34 | 25n30 | 3n 8 | 16n50 | 1n 9 | 22n42 | 0n54 | 10n41 | 1s56 | 1s34 | 1s38 | 6s37 | 2n20 | 10n16 | 0s29 | 19n 5 | 1s29 | 10n14 | 8s51 | 13s16 | 12s58 | 7n29 | | n.a. |

Julian Day Number = 1693114.5, Delta T = 03h09m27s
Ecliptic obliquity = 23°42'23, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°08'04, Lahiri = - 5°01'04 Julian Calendar 1 July 78 BCE == Greg. Calendar 29 June 078 BCE

The year -77 astronomical counting style corresponds to year 078 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 78 BCE
# geocentric

## AUGUST 78 BCE (-77) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 20 25 2 | 4♌33'43 | 2♌32 | 19♌15 | 23♋40 | 3♉ 6 | 29°R46 | 22♎21 | 27♈35 | 0♊45 | 23♉16 | 25°R10 | 26♒ 1 | 10♈33 | n.a. | M 1 |
| T 2 | 20 28 58 | 5°31'48 | 16°45 | 20°56 | 24°54 | 3°38 | 29♓44 | 22°24 | 27°35 | 0°46 | 23°17 | 25♒ 9 | 25°58 | 10°40 | n.a. | T 2 |
| W 3 | 20 32 55 | 6°29'54 | 1♍ 9 | 22°35 | 26° 8 | 4° 9 | 29°42 | 22°27 | 27°35 | 0°48 | 23°17 | 25°D 9 | 25°55 | 10°46 | n.a. | W 3 |
| T 4 | 20 36 52 | 7°28'02 | 15°38 | 24°13 | 27°23 | 4°40 | 29°40 | 22°30 | 27°35 | 0°49 | 23°18 | 25°10 | 25°52 | 10°53 | n.a. | T 4 |
| F 5 | 20 40 48 | 8°26'12 | 0♎ 9 | 25°50 | 28°37 | 5°11 | 29°37 | 22°34 | 27°35 | 0°50 | 23°18 | 25°11 | 25°49 | 11° 0 | n.a. | F 5 |
| S 6 | 20 44 45 | 9°24'23 | 14°36 | 27°25 | 29°51 | 5°41 | 29°35 | 22°37 | 27°R35 | 0°51 | 23°19 | 25°12 | 25°45 | 11° 7 | n.a. | S 6 |
| S 7 | 20 48 41 | 10°22'36 | 28°55 | 28°59 | 1♌ 6 | 6°12 | 29°32 | 22°40 | 27°35 | 0°52 | 23°19 | 25°13 | 25°42 | 11°13 | n.a. | S 7 |
| M 8 | 20 52 38 | 11°20'51 | 13♏ 3 | 0♍32 | 2°20 | 6°41 | 29°29 | 22°44 | 27°35 | 0°53 | 23°20 | 25°R13 | 25°39 | 11°20 | n.a. | M 8 |
| T 9 | 20 56 34 | 12°19'07 | 27° 0 | 2° 4 | 3°35 | 7°11 | 29°26 | 22°48 | 27°35 | 0°54 | 23°20 | 25°13 | 25°36 | 11°27 | n.a. | T 9 |
| W10 | 21 0 31 | 13°17'24 | 10♐43 | 3°35 | 4°49 | 7°40 | 29°22 | 22°52 | 27°35 | 0°55 | 23°21 | 25°12 | 25°33 | 11°33 | n.a. | W10 |
| T 11 | 21 4 27 | 14°15'44 | 24°13 | 5° 4 | 6° 4 | 8° 9 | 29°19 | 22°55 | 27°35 | 0°56 | 23°21 | 25°11 | 25°30 | 11°40 | n.a. | T 11 |
| F 12 | 21 8 24 | 15°14'05 | 7♑28 | 6°32 | 7°18 | 8°37 | 29°15 | 22°59 | 27°35 | 0°57 | 23°21 | 25° 9 | 25°26 | 11°47 | n.a. | F 12 |
| S 13 | 21 12 21 | 16°12'28 | 20°30 | 7°59 | 8°33 | 9° 6 | 29°11 | 23° 3 | 27°34 | 0°57 | 23°22 | 25° 8 | 25°23 | 11°53 | n.a. | S 13 |
| S 14 | 21 16 17 | 17°10'53 | 3♒18 | 9°25 | 9°47 | 9°33 | 29° 7 | 23° 7 | 27°34 | 0°58 | 23°22 | 25° 7 | 25°20 | 12° 0 | n.a. | S 14 |
| M15 | 21 20 14 | 18° 9'19 | 15°52 | 10°49 | 11° 2 | 10° 1 | 29° 3 | 23°12 | 27°34 | 0°59 | 23°22 | 25° 7 | 25°17 | 12° 7 | n.a. | M15 |
| T 16 | 21 24 10 | 19° 7'47 | 28°14 | 12°12 | 12°17 | 10°28 | 28°58 | 23°16 | 27°33 | 1° 0 | 23°22 | 25°D 7 | 25°14 | 12°13 | n.a. | T 16 |
| W17 | 21 28 7 | 20° 6'18 | 10♓25 | 13°34 | 13°31 | 10°55 | 28°54 | 23°20 | 27°33 | 1° 1 | 23°23 | 25° 7 | 25°10 | 12°20 | n.a. | W17 |
| T 18 | 21 32 3 | 21° 4'50 | 22°26 | 14°54 | 14°46 | 11°21 | 28°49 | 23°25 | 27°32 | 1° 1 | 23°23 | 25° 7 | 25° 7 | 12°27 | n.a. | T 18 |
| F 19 | 21 36 0 | 22° 3'25 | 4♈21 | 16°13 | 16° 1 | 11°47 | 28°44 | 23°29 | 27°31 | 1° 2 | 23°23 | 25° 8 | 25° 4 | 12°33 | n.a. | F 19 |
| S 20 | 21 39 56 | 23° 2'02 | 16°12 | 17°31 | 17°15 | 12°12 | 28°39 | 23°33 | 27°31 | 1° 2 | 23°23 | 25° 8 | 25° 1 | 12°40 | n.a. | S 20 |
| S 21 | 21 43 53 | 24° 0'41 | 28° 2 | 18°47 | 18°30 | 12°38 | 28°33 | 23°38 | 27°30 | 1° 3 | 23°23 | 25° 8 | 24°58 | 12°47 | n.a. | S 21 |
| M22 | 21 47 50 | 24°59'23 | 9♉56 | 20° 1 | 19°45 | 13° 2 | 28°28 | 23°43 | 27°29 | 1° 4 | 23°24 | 25°R 8 | 24°55 | 12°54 | n.a. | M22 |
| T 23 | 21 51 46 | 25°58'07 | 21°58 | 21°14 | 21° 0 | 13°27 | 28°22 | 23°47 | 27°29 | 1° 4 | 23°24 | 25°D 8 | 24°51 | 13° 0 | n.a. | T 23 |
| W24 | 21 55 43 | 26°56'53 | 4♊13 | 22°25 | 22°15 | 13°51 | 28°17 | 23°52 | 27°28 | 1° 5 | 23°24 | 25° 8 | 24°48 | 13° 7 | n.a. | W24 |
| T 25 | 21 59 39 | 27°55'41 | 16°45 | 23°34 | 23°29 | 14°14 | 28°11 | 23°57 | 27°27 | 1° 5 | 23°24 | 25° 8 | 24°45 | 13°14 | n.a. | T 25 |
| F 26 | 22 3 36 | 28°54'32 | 29°38 | 24°41 | 24°44 | 14°37 | 28° 5 | 24° 2 | 27°26 | 1° 6 | 23°24 | 25° 8 | 24°42 | 13°20 | n.a. | F 26 |
| S 27 | 22 7 32 | 29°53'26 | 12♋55 | 25°47 | 25°59 | 14°59 | 27°58 | 24° 7 | 27°25 | 1° 6 | 23°R24 | 25° 9 | 24°39 | 13°27 | n.a. | S 27 |
| S 28 | 22 11 29 | 0♍52'22 | 26°37 | 26°49 | 27°14 | 15°21 | 27°52 | 24°12 | 27°24 | 1° 6 | 23°24 | 25° 9 | 24°36 | 13°34 | n.a. | S 28 |
| M29 | 22 15 25 | 1°51'20 | 10♌44 | 27°50 | 28°29 | 15°43 | 27°46 | 24°17 | 27°23 | 1° 7 | 23°24 | 25°10 | 24°32 | 13°40 | n.a. | M29 |
| T 30 | 22 19 22 | 2°50'20 | 25°13 | 28°48 | 29°44 | 16° 4 | 27°39 | 24°22 | 27°22 | 1° 7 | 23°24 | 25°R10 | 24°29 | 13°47 | n.a. | T 30 |
| W31 | 22 23 19 | 3♍49'22 | 9♍59 | 29♍43 | 0♍59 | 16♉24 | 27♓32 | 24♎28 | 27♈20 | 1♊ 7 | 23♉24 | 25♒10 | 24♒26 | 13♈54 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| M 1 | 19n20 | 21n47 | 2n 2 | 16n13 | 1n 3 | 22n31 | 0n56 | 10n52 | 1s56 | 1s35 | 1s38 | 6s38 | 2n20 | 10n16 | 0s29 | 19n 5 | 1s29 | 10n14 | 8s51 | 13s16 | 12s59 | 7n32 | | | n.a. |
| T 2 | 19 6 | 16 44 | 0 46 | 15 35 | 0 57 | 22 20 | 0 57 | 11 4 | 1 55 | 1 36 | 1 38 | 6 39 | 2 19 | 10 16 | 0 29 | 19 6 | 1 29 | 10 14 | 8 51 | 13 17 | 13 0 | 7 36 | | | n.a. |
| W 3 | 18 51 | 10 40 | 0s33 | 14 57 | 0 51 | 22 8 | 0 59 | 11 15 | 1 55 | 1 37 | 1 38 | 6 41 | 2 19 | 10 16 | 0 29 | 19 6 | 1 29 | 10 14 | 8 51 | 13 17 | 13 1 | 7 39 | | | n.a. |
| T 4 | 18 37 | 4 1 | 1 51 | 14 18 | 0 44 | 21 55 | 1 1 | 11 26 | 1 55 | 1 38 | 1 39 | 6 42 | 2 19 | 10 16 | 0 29 | 19 6 | 1 29 | 10 14 | 8 51 | 13 17 | 13 2 | 7 42 | | | n.a. |
| F 5 | 18 21 | 2s50 | 3 2 | 13 39 | 0 38 | 21 41 | 1 2 | 11 36 | 1 54 | 1 40 | 1 39 | 6 44 | 2 19 | 10 16 | 0 29 | 19 6 | 1 29 | 10 14 | 8 52 | 13 16 | 13 3 | 7 45 | | | n.a. |
| S 6 | 18 6 | 9 30 | 4 0 | 12 59 | 0 31 | 21 27 | 1 4 | 11 47 | 1 54 | 1 41 | 1 39 | 6 45 | 2 19 | 10 16 | 0 29 | 19 6 | 1 29 | 10 14 | 8 52 | 13 16 | 13 5 | 7 48 | | | n.a. |
| S 7 | 17 50 | 15 37 | 4 44 | 12 20 | 0 24 | 21 12 | 1 6 | 11 57 | 1 53 | 1 42 | 1 39 | 6 47 | 2 18 | 10 16 | 0 29 | 19 7 | 1 29 | 10 14 | 8 52 | 13 16 | 13 6 | 7 52 | | | n.a. |
| M 8 | 17 34 | 20 50 | 5 9 | 11 40 | 0 16 | 20 57 | 1 7 | 12 8 | 1 53 | 1 44 | 1 40 | 6 48 | 2 18 | 10 16 | 0 29 | 19 7 | 1 29 | 10 13 | 8 52 | 13 16 | 13 7 | 7 55 | | | n.a. |
| T 9 | 17 18 | 24 49 | 5 16 | 11 0 | 0 9 | 20 41 | 1 9 | 12 18 | 1 52 | 1 45 | 1 40 | 6 50 | 2 18 | 10 16 | 0 30 | 19 7 | 1 29 | 10 13 | 8 52 | 13 16 | 13 8 | 7 58 | | | n.a. |
| W10 | 17 1 | 27 20 | 5 5 | 10 20 | 0 1 | 20 24 | 1 10 | 12 28 | 1 51 | 1 47 | 1 40 | 6 52 | 2 18 | 10 16 | 0 30 | 19 7 | 1 29 | 10 13 | 8 52 | 13 16 | 13 9 | 8 1 | | | n.a. |
| T 11 | 16 44 | 28 11 | 4 37 | 9 40 | 0s 6 | 20 7 | 1 11 | 12 38 | 1 51 | 1 49 | 1 41 | 6 53 | 2 17 | 10 16 | 0 30 | 19 7 | 1 29 | 10 13 | 8 52 | 13 16 | 13 10 | 8 5 | | | n.a. |
| F 12 | 16 27 | 27 23 | 3 54 | 9 0 | 0 14 | 19 49 | 1 12 | 12 48 | 1 50 | 1 50 | 1 41 | 6 55 | 2 17 | 10 16 | 0 30 | 19 7 | 1 29 | 10 13 | 8 53 | 13 17 | 13 11 | 8 8 | | | n.a. |
| S 13 | 16 9 | 25 6 | 3 0 | 8 20 | 0 22 | 19 31 | 1 14 | 12 57 | 1 50 | 1 52 | 1 41 | 6 57 | 2 17 | 10 16 | 0 30 | 19 7 | 1 29 | 10 13 | 8 53 | 13 17 | 13 12 | 8 11 | | | n.a. |
| S 14 | 15 52 | 21 33 | 1 58 | 7 40 | 0 30 | 19 12 | 1 15 | 13 7 | 1 49 | 1 54 | 1 41 | 6 58 | 2 17 | 10 16 | 0 30 | 19 8 | 1 29 | 10 13 | 8 53 | 13 18 | 13 13 | 8 14 | | | n.a. |
| M15 | 15 33 | 17 4 | 0 51 | 7 0 | 0 38 | 18 52 | 1 16 | 13 16 | 1 48 | 1 56 | 1 41 | 7 0 | 2 16 | 10 16 | 0 30 | 19 8 | 1 29 | 10 13 | 8 53 | 13 18 | 13 14 | 8 17 | | | n.a. |
| T 16 | 15 15 | 11 57 | 0n17 | 6 21 | 0 46 | 18 32 | 1 17 | 13 25 | 1 48 | 1 58 | 1 42 | 7 2 | 2 16 | 10 15 | 0 30 | 19 8 | 1 29 | 10 13 | 8 53 | 13 18 | 13 15 | 8 21 | | | n.a. |
| W17 | 14 57 | 6 27 | 1 24 | 5 42 | 0 55 | 18 12 | 1 18 | 13 34 | 1 47 | 2 0 | 1 42 | 7 4 | 2 16 | 10 15 | 0 30 | 19 8 | 1 29 | 10 13 | 8 53 | 13 18 | 13 16 | 8 24 | | | n.a. |
| T 18 | 14 38 | 0 48 | 2 26 | 5 3 | 1 3 | 17 50 | 1 19 | 13 43 | 1 46 | 2 2 | 1 42 | 7 6 | 2 16 | 10 15 | 0 30 | 19 8 | 1 29 | 10 13 | 8 53 | 13 18 | 13 18 | 8 27 | | | n.a. |
| F 19 | 14 19 | 4n49 | 3 21 | 4 24 | 1 11 | 17 29 | 1 20 | 13 52 | 1 46 | 2 4 | 1 42 | 7 7 | 2 16 | 10 15 | 0 30 | 19 8 | 1 30 | 10 13 | 8 54 | 13 17 | 13 19 | 8 30 | | | n.a. |
| S 20 | 13 59 | 10 14 | 4 7 | 3 46 | 1 19 | 17 7 | 1 20 | 14 0 | 1 45 | 2 7 | 1 43 | 7 9 | 2 15 | 10 15 | 0 30 | 19 8 | 1 30 | 10 13 | 8 54 | 13 17 | 13 20 | 8 33 | | | n.a. |
| S 21 | 13 40 | 15 17 | 4 43 | 3 9 | 1 28 | 16 44 | 1 21 | 14 9 | 1 44 | 2 9 | 1 43 | 7 11 | 2 15 | 10 14 | 0 30 | 19 8 | 1 30 | 10 12 | 8 54 | 13 17 | 13 21 | 8 37 | | | n.a. |
| M22 | 13 20 | 19 47 | 5 6 | 2 32 | 1 36 | 16 21 | 1 22 | 14 17 | 1 43 | 2 11 | 1 43 | 7 13 | 2 15 | 10 14 | 0 30 | 19 8 | 1 30 | 10 12 | 8 54 | 13 17 | 13 22 | 8 40 | | | n.a. |
| T 23 | 13 0 | 23 33 | 5 17 | 1 55 | 1 44 | 15 57 | 1 22 | 14 25 | 1 43 | 2 14 | 1 43 | 7 15 | 2 15 | 10 14 | 0 30 | 19 8 | 1 30 | 10 12 | 8 54 | 13 17 | 13 23 | 8 43 | | | n.a. |
| W24 | 12 40 | 26 21 | 5 13 | 1 20 | 1 52 | 15 33 | 1 23 | 14 33 | 1 42 | 2 16 | 1 43 | 7 17 | 2 14 | 10 13 | 0 30 | 19 8 | 1 30 | 10 12 | 8 54 | 13 17 | 13 24 | 8 46 | | | n.a. |
| T 25 | 12 20 | 27 56 | 4 55 | 0 45 | 2 0 | 15 9 | 1 23 | 14 41 | 1 41 | 2 19 | 1 44 | 7 19 | 2 14 | 10 13 | 0 30 | 19 9 | 1 30 | 10 12 | 8 55 | 13 17 | 13 25 | 8 49 | | | n.a. |
| F 26 | 11 59 | 28 4 | 4 22 | 0 11 | 2 8 | 14 44 | 1 24 | 14 49 | 1 40 | 2 21 | 1 44 | 7 21 | 2 14 | 10 13 | 0 30 | 19 9 | 1 30 | 10 12 | 8 55 | 13 17 | 13 26 | 8 53 | | | n.a. |
| S 27 | 11 38 | 26 37 | 3 34 | 0s23 | 2 16 | 14 19 | 1 24 | 14 56 | 1 39 | 2 24 | 1 44 | 7 23 | 2 14 | 10 12 | 0 30 | 19 9 | 1 30 | 10 12 | 8 55 | 13 17 | 13 27 | 8 56 | | | n.a. |
| S 28 | 11 17 | 23 33 | 2 32 | 0 55 | 2 24 | 13 53 | 1 24 | 15 3 | 1 38 | 2 27 | 1 44 | 7 25 | 2 14 | 10 12 | 0 30 | 19 9 | 1 30 | 10 12 | 8 55 | 13 17 | 13 28 | 8 59 | | | n.a. |
| M29 | 10 56 | 19 0 | 1 19 | 1 26 | 2 31 | 13 27 | 1 25 | 15 11 | 1 37 | 2 30 | 1 44 | 7 27 | 2 13 | 10 12 | 0 30 | 19 9 | 1 30 | 10 11 | 8 55 | 13 17 | 13 29 | 9 2 | | | n.a. |
| T 30 | 10 35 | 13 15 | 0s 0 | 1 56 | 2 38 | 13 1 | 1 25 | 15 18 | 1 36 | 2 32 | 1 44 | 7 29 | 2 13 | 10 11 | 0 30 | 19 9 | 1 30 | 10 11 | 8 55 | 13 17 | 13 30 | 9 5 | | | n.a. |
| W31 | 10n13 | 6n40 | 1s21 | 2s25 | 2s45 | 12n34 | 1n25 | 15n24 | 1s35 | 2s35 | 1s45 | 7s31 | 2n13 | 10n11 | 0s30 | 19n 9 | 1s30 | 10n11 | 8s55 | 13s17 | 13s31 | 9n 8 | | | n.a. |

Julian Day Number = 1693145.5, Delta T = 03h09m26s
Ecliptic obliquity = 23°42'23, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°08'00, Lahiri = - 5°00'59 Julian Calendar 1 Aug. 78 BCE == Greg. Calendar 30 July 078 BCE

The year -77 astronomical counting style corresponds to year 078 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 78 BCE
# geocentric

## SEPTEMBER 78 BCE (-77) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 22 27 15 | 4♍48'26 | 24♍54 | 0♎35 | 2♍14 | 16♉44 | 27°R25 | 24♎33 | 27°R19 | 1♊ 7 | 23°R24 | 25°R 9 | 24♒23 | 14♈ 0 | n.a. | T 1 |
| F 2 | 22 31 12 | 5°47'32 | 9♎51 | 1°24 | 3°29 | 17° 4 | 27♓18 | 24°38 | 27♈18 | 1° 8 | 23♉23 | 25♒ 8 | 24°20 | 14° 7 | n.a. | F 2 |
| S 3 | 22 35 8 | 6°46'41 | 24°41 | 2° 9 | 4°44 | 17°23 | 27°11 | 24°44 | 27°17 | 1° 8 | 23°23 | 25° 7 | 24°16 | 14°14 | n.a. | S 3 |
| S 4 | 22 39 5 | 7°45'51 | 9♏17 | 2°51 | 5°59 | 17°41 | 27° 4 | 24°49 | 27°15 | 1° 8 | 23°23 | 25° 5 | 24°13 | 14°20 | n.a. | S 4 |
| M 5 | 22 43 1 | 8°45'03 | 23°36 | 3°28 | 7°14 | 17°59 | 26°57 | 24°55 | 27°14 | 1° 8 | 23°23 | 25° 4 | 24°10 | 14°27 | n.a. | M 5 |
| T 6 | 22 46 58 | 9°44'17 | 7♐33 | 4° 0 | 8°29 | 18°16 | 26°49 | 25° 1 | 27°13 | 1° 8 | 23°23 | 25°D 4 | 24° 7 | 14°34 | n.a. | T 6 |
| W 7 | 22 50 54 | 10°43'33 | 21°10 | 4°28 | 9°45 | 18°33 | 26°42 | 25° 6 | 27°11 | 1°R 8 | 23°23 | 25° 4 | 24° 4 | 14°41 | n.a. | W 7 |
| T 8 | 22 54 51 | 11°42'51 | 4♑26 | 4°50 | 11° 0 | 18°49 | 26°34 | 25°12 | 27°10 | 1° 8 | 23°22 | 25° 5 | 24° 1 | 14°47 | n.a. | T 8 |
| F 9 | 22 58 47 | 12°42'11 | 17°24 | 5° 6 | 12°15 | 19° 4 | 26°27 | 25°18 | 27° 8 | 1° 8 | 23°22 | 25° 6 | 23°57 | 14°54 | n.a. | F 9 |
| S 10 | 23 2 44 | 13°41'32 | 0♒ 6 | 5°16 | 13°30 | 19°19 | 26°19 | 25°24 | 27° 6 | 1° 8 | 23°22 | 25° 8 | 23°54 | 15° 1 | n.a. | S 10 |
| S 11 | 23 6 41 | 14°40'55 | 12°35 | 5°R19 | 14°45 | 19°33 | 26°11 | 25°29 | 27° 5 | 1° 8 | 23°21 | 25° 9 | 23°51 | 15° 7 | n.a. | S 11 |
| M12 | 23 10 37 | 15°40'21 | 24°52 | 5°14 | 16° 0 | 19°47 | 26° 3 | 25°35 | 27° 3 | 1° 8 | 23°21 | 25°R 9 | 23°48 | 15°14 | n.a. | M12 |
| T 13 | 23 14 34 | 16°39'48 | 7♓ 0 | 5° 2 | 17°15 | 20° 0 | 25°55 | 25°41 | 27° 1 | 1° 8 | 23°21 | 25° 9 | 23°45 | 15°21 | n.a. | T 13 |
| W14 | 23 18 30 | 17°39'18 | 19° 1 | 4°42 | 18°31 | 20°12 | 25°47 | 25°47 | 27° 0 | 1° 7 | 23°20 | 25° 7 | 23°41 | 15°27 | n.a. | W14 |
| T 15 | 23 22 27 | 18°38'49 | 0♈57 | 4°13 | 19°46 | 20°23 | 25°39 | 25°53 | 26°58 | 1° 7 | 23°20 | 25° 4 | 23°38 | 15°34 | n.a. | T 15 |
| F 16 | 23 26 23 | 19°38'23 | 12°49 | 3°36 | 21° 1 | 20°34 | 25°31 | 25°59 | 26°56 | 1° 7 | 23°20 | 25° 0 | 23°35 | 15°41 | n.a. | F 16 |
| S 17 | 23 30 20 | 20°37'59 | 24°39 | 2°51 | 22°16 | 20°44 | 25°23 | 26° 6 | 26°54 | 1° 6 | 23°19 | 24°56 | 23°32 | 15°47 | n.a. | S 17 |
| S 18 | 23 34 16 | 21°37'37 | 6♉30 | 1°58 | 23°31 | 20°54 | 25°15 | 26°12 | 26°52 | 1° 6 | 23°19 | 24°51 | 23°29 | 15°54 | n.a. | S 18 |
| M19 | 23 38 13 | 22°37'17 | 18°25 | 0°57 | 24°47 | 21° 2 | 25° 7 | 26°18 | 26°50 | 1° 6 | 23°18 | 24°47 | 23°26 | 16° 1 | n.a. | M19 |
| T 20 | 23 42 10 | 23°37'00 | 0♊26 | 29♍51 | 26° 2 | 21°10 | 24°59 | 26°24 | 26°48 | 1° 5 | 23°18 | 24°44 | 23°22 | 16° 8 | n.a. | T 20 |
| W21 | 23 46 6 | 24°36'46 | 12°39 | 28°39 | 27°17 | 21°17 | 24°51 | 26°31 | 26°46 | 1° 5 | 23°17 | 24°42 | 23°19 | 16°14 | n.a. | W21 |
| T 22 | 23 50 3 | 25°36'33 | 25° 6 | 27°25 | 28°32 | 21°24 | 24°43 | 26°37 | 26°44 | 1° 4 | 23°17 | 24°D41 | 23°16 | 16°21 | n.a. | T 22 |
| F 23 | 23 53 59 | 26°36'23 | 7♋52 | 26°10 | 29°48 | 21°29 | 24°35 | 26°43 | 26°42 | 1° 4 | 23°16 | 24°41 | 23°13 | 16°28 | n.a. | F 23 |
| S 24 | 23 57 56 | 27°36'16 | 21° 2 | 24°56 | 1♎ 3 | 21°34 | 24°26 | 26°50 | 26°40 | 1° 3 | 23°15 | 24°43 | 23°10 | 16°34 | n.a. | S 24 |
| S 25 | 0 1 52 | 28°36'10 | 4♌38 | 23°46 | 2°18 | 21°38 | 24°18 | 26°56 | 26°38 | 1° 3 | 23°15 | 24°44 | 23° 7 | 16°41 | n.a. | S 25 |
| M26 | 0 5 49 | 29°36'07 | 18°41 | 22°42 | 3°33 | 21°41 | 24°10 | 27° 3 | 26°36 | 1° 2 | 23°14 | 24°R46 | 23° 3 | 16°48 | n.a. | M26 |
| T 27 | 0 9 45 | 0♎36'06 | 3♍12 | 21°45 | 4°49 | 21°44 | 24° 2 | 27° 9 | 26°34 | 1° 2 | 23°14 | 24°45 | 23° 0 | 16°54 | n.a. | T 27 |
| W28 | 0 13 42 | 1°36'07 | 18° 5 | 20°58 | 6° 4 | 21°45 | 23°54 | 27°16 | 26°32 | 1° 1 | 23°13 | 24°44 | 22°57 | 17° 1 | n.a. | W28 |
| T 29 | 0 17 39 | 2°36'11 | 3♎15 | 20°20 | 7°19 | 21°R46 | 23°46 | 27°23 | 26°30 | 1° 0 | 23°12 | 24°40 | 22°54 | 17° 8 | n.a. | T 29 |
| F 30 | 0 21 35 | 3♎36'16 | 18♎30 | 19♍54 | 8♎35 | 21♉45 | 23♓38 | 27♎29 | 26♈27 | 0♊59 | 23♉12 | 24♒35 | 22♒51 | 17♈15 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 9n51 | 0s21 | 2s37 | 2s52 | 2s52 | 12n 7 | 1n25 | 15n31 | 1s34 | 2s38 | 1s45 | 7s34 | 2n13 | 10n10 | 0s30 | 19n 9 | 1s30 | 10n11 | 8s56 | 13s17 | 13s33 | 9n12 | | n.a. |
| F 2 | 9 29 | 7 21 | 3 43 | 3 17 | 2 58 | 11 39 | 1 25 | 15 38 | 1 33 | 2 41 | 1 45 | 7 36 | 2 13 | 10 10 | 0 30 | 19 9 | 1 30 | 10 11 | 8 56 | 13 17 | 13 34 | 9 15 | | n.a. |
| S 3 | 9 7 | 13 53 | 4 33 | 3 41 | 3 4 | 11 11 | 1 25 | 15 44 | 1 32 | 2 44 | 1 45 | 7 38 | 2 13 | 10 9 | 0 30 | 19 9 | 1 30 | 10 11 | 8 56 | 13 18 | 13 35 | 9 18 | | n.a. |
| S 4 | 8 45 | 19 33 | 5 4 | 4 3 | 3 10 | 10 43 | 1 24 | 15 50 | 1 31 | 2 47 | 1 45 | 7 40 | 2 12 | 10 9 | 0 30 | 19 9 | 1 30 | 10 10 | 8 56 | 13 18 | 13 36 | 9 21 | | n.a. |
| M 5 | 8 23 | 23 58 | 5 16 | 4 22 | 3 15 | 10 15 | 1 24 | 15 56 | 1 30 | 2 50 | 1 45 | 7 42 | 2 12 | 10 8 | 0 30 | 19 9 | 1 30 | 10 10 | 8 56 | 13 19 | 13 37 | 9 24 | | n.a. |
| T 6 | 8 0 | 26 53 | 5 9 | 4 39 | 3 20 | 9 46 | 1 24 | 16 2 | 1 29 | 2 53 | 1 45 | 7 44 | 2 12 | 10 8 | 0 30 | 19 9 | 1 30 | 10 10 | 8 56 | 13 19 | 13 38 | 9 27 | | n.a. |
| W 7 | 7 38 | 28 8 | 4 44 | 4 54 | 3 23 | 9 17 | 1 23 | 16 8 | 1 28 | 2 56 | 1 45 | 7 47 | 2 12 | 10 7 | 0 30 | 19 9 | 1 30 | 10 10 | 8 56 | 13 19 | 13 39 | 9 30 | | n.a. |
| T 8 | 7 15 | 27 43 | 4 5 | 5 6 | 3 27 | 8 48 | 1 23 | 16 14 | 1 27 | 2 59 | 1 46 | 7 49 | 2 12 | 10 7 | 0 30 | 19 9 | 1 30 | 10 10 | 8 57 | 13 18 | 13 40 | 9 34 | | n.a. |
| F 9 | 6 52 | 25 46 | 3 14 | 5 14 | 3 29 | 8 19 | 1 23 | 16 19 | 1 25 | 3 2 | 1 46 | 7 51 | 2 11 | 10 6 | 0 30 | 19 8 | 1 30 | 10 9 | 8 57 | 13 18 | 13 41 | 9 37 | | n.a. |
| S 10 | 6 29 | 22 32 | 2 14 | 5 19 | 3 30 | 7 49 | 1 22 | 16 24 | 1 24 | 3 6 | 1 46 | 7 54 | 2 11 | 10 5 | 0 30 | 19 8 | 1 30 | 10 9 | 8 57 | 13 17 | 13 42 | 9 40 | | n.a. |
| S 11 | 6 6 | 18 19 | 1 9 | 5 21 | 3 30 | 7 19 | 1 21 | 16 29 | 1 23 | 3 9 | 1 46 | 7 56 | 2 11 | 10 5 | 0 30 | 19 8 | 1 30 | 10 9 | 8 57 | 13 17 | 13 43 | 9 43 | | n.a. |
| M12 | 5 43 | 13 24 | 0 2 | 5 18 | 3 30 | 6 49 | 1 21 | 16 34 | 1 21 | 3 12 | 1 46 | 7 58 | 2 11 | 10 4 | 0 30 | 19 8 | 1 31 | 10 9 | 8 57 | 13 17 | 13 44 | 9 46 | | n.a. |
| T 13 | 5 19 | 8 2 | 1n 5 | 5 11 | 3 27 | 6 19 | 1 20 | 16 39 | 1 20 | 3 15 | 1 46 | 8 0 | 2 11 | 10 4 | 0 30 | 19 8 | 1 31 | 10 8 | 8 57 | 13 17 | 13 45 | 9 49 | | n.a. |
| W14 | 4 56 | 2 26 | 2 8 | 5 0 | 3 24 | 5 48 | 1 19 | 16 44 | 1 19 | 3 18 | 1 46 | 8 3 | 2 11 | 10 3 | 0 30 | 19 8 | 1 31 | 10 8 | 8 57 | 13 18 | 13 46 | 9 52 | | n.a. |
| T 15 | 4 32 | 3n12 | 3 4 | 4 43 | 3 18 | 5 18 | 1 18 | 16 48 | 1 17 | 3 22 | 1 46 | 8 5 | 2 11 | 10 2 | 0 30 | 19 8 | 1 31 | 10 8 | 8 58 | 13 19 | 13 47 | 9 56 | | n.a. |
| F 16 | 4 9 | 8 41 | 3 53 | 4 22 | 3 11 | 4 47 | 1 17 | 16 53 | 1 16 | 3 25 | 1 46 | 8 8 | 2 10 | 10 2 | 0 30 | 19 8 | 1 31 | 10 8 | 8 58 | 13 20 | 13 48 | 9 59 | | n.a. |
| S 17 | 3 45 | 13 50 | 4 31 | 3 56 | 3 2 | 4 16 | 1 16 | 16 57 | 1 14 | 3 28 | 1 46 | 8 10 | 2 10 | 10 1 | 0 30 | 19 8 | 1 31 | 10 8 | 8 58 | 13 21 | 13 50 | 10 2 | | n.a. |
| S 18 | 3 21 | 18 30 | 4 57 | 3 24 | 2 51 | 3 45 | 1 15 | 17 1 | 1 13 | 3 31 | 1 46 | 8 12 | 2 10 | 10 0 | 0 30 | 19 8 | 1 31 | 10 7 | 8 58 | 13 23 | 13 51 | 10 5 | | n.a. |
| M19 | 2 58 | 22 28 | 5 11 | 2 48 | 2 39 | 3 14 | 1 14 | 17 4 | 1 11 | 3 35 | 1 46 | 8 15 | 2 10 | 10 0 | 0 30 | 19 8 | 1 31 | 10 7 | 8 58 | 13 24 | 13 52 | 10 8 | | n.a. |
| T 20 | 2 34 | 25 32 | 5 11 | 2 8 | 2 24 | 2 42 | 1 13 | 17 8 | 1 10 | 3 38 | 1 46 | 8 17 | 2 10 | 9 59 | 0 30 | 19 7 | 1 31 | 10 7 | 8 58 | 13 25 | 13 53 | 10 11 | | n.a. |
| W21 | 2 10 | 27 29 | 4 58 | 1 24 | 2 8 | 2 11 | 1 12 | 17 12 | 1 8 | 3 41 | 1 46 | 8 20 | 2 10 | 9 58 | 0 30 | 19 7 | 1 31 | 10 7 | 8 58 | 13 26 | 13 54 | 10 14 | | n.a. |
| T 22 | 1 46 | 28 7 | 4 30 | 0 38 | 1 50 | 1 40 | 1 10 | 17 15 | 1 6 | 3 44 | 1 46 | 8 22 | 2 10 | 9 57 | 0 30 | 19 7 | 1 31 | 10 6 | 8 59 | 13 26 | 13 55 | 10 17 | | n.a. |
| F 23 | 1 22 | 27 16 | 3 48 | 0n10 | 1 30 | 1 8 | 1 9 | 17 18 | 1 5 | 3 48 | 1 46 | 8 24 | 2 9 | 9 57 | 0 30 | 19 7 | 1 31 | 10 6 | 8 59 | 13 26 | 13 56 | 10 21 | | n.a. |
| S 24 | 0 58 | 24 54 | 2 54 | 0 57 | 1 10 | 0 37 | 1 8 | 17 21 | 1 3 | 3 51 | 1 46 | 8 27 | 2 9 | 9 56 | 0 30 | 19 7 | 1 31 | 10 6 | 8 59 | 13 26 | 13 57 | 10 24 | | n.a. |
| S 25 | 0 34 | 21 4 | 1 48 | 1 44 | 0 50 | 0 5 | 1 6 | 17 24 | 1 1 | 3 54 | 1 46 | 8 29 | 2 9 | 9 55 | 0 30 | 19 7 | 1 31 | 10 6 | 8 59 | 13 25 | 13 58 | 10 27 | | n.a. |
| M26 | 0 10 | 15 55 | 0 33 | 2 29 | 0 29 | 0s26 | 1 5 | 17 26 | 0 59 | 3 57 | 1 46 | 8 32 | 2 9 | 9 54 | 0 30 | 19 7 | 1 31 | 10 5 | 8 59 | 13 25 | 13 59 | 10 30 | | n.a. |
| T 27 | 0s15 | 9 44 | 0s46 | 3 10 | 0 9 | 0 58 | 1 3 | 17 29 | 0 57 | 4 0 | 1 46 | 8 34 | 2 9 | 9 53 | 0 30 | 19 6 | 1 31 | 10 5 | 8 59 | 13 25 | 14 0 | 10 33 | | n.a. |
| W28 | 0 39 | 2 52 | 2 4 | 3 47 | 0n11 | 1 30 | 1 2 | 17 31 | 0 55 | 4 4 | 1 46 | 8 37 | 2 9 | 9 53 | 0 30 | 19 6 | 1 31 | 10 5 | 8 59 | 13 26 | 14 1 | 10 36 | | n.a. |
| T 29 | 1 3 | 4s16 | 3 14 | 4 19 | 0 29 | 2 1 | 1 0 | 17 33 | 0 54 | 4 7 | 1 46 | 8 39 | 2 9 | 9 52 | 0 30 | 19 6 | 1 31 | 10 4 | 8 59 | 13 27 | 14 2 | 10 39 | | n.a. |
| F 30 | 1s27 | 11s11 | 4s11 | 4n45 | 0n46 | 2s33 | 0n58 | 17n35 | 0s52 | 4s10 | 1s45 | 8s42 | 2n 9 | 9n51 | 0s30 | 19n 6 | 1s31 | 10n 4 | 9s 0 | 13s29 | 14s 3 | 10n42 | | n.a. |

Julian Day Number = 1693176.5, Delta T = 03h09m25s
Ecliptic obliquity = 23°42'24, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°07'56, Lahiri = - 5°00'55 Julian Calendar 1 Sept. 78 BCE == Greg. Calendar 30 Aug. 078 BCE

The year -77 astronomical counting style corresponds to year 078 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 78 BCE
# geocentric

## OCTOBER 78 BCE (-77) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 0 25 32 | 4♎36'23 | 3♏42 | 19°R40 | 9♎50 | 21°R44 | 23°R31 | 27♎36 | 26°R25 | 0°R59 | 23°R11 | 24°R29 | 22♒47 | 17♈21 | n.a. | S 1 |
| S 2 | 0 29 28 | 5°36'32 | 18°38 | 19°D37 | 11° 5 | 21♉42 | 23♓23 | 27°43 | 26♈23 | 0♊58 | 23♉10 | 24♒22 | 22°44 | 17°28 | n.a. | S 2 |
| M 3 | 0 33 25 | 6°36'43 | 3♐13 | 19♍45 | 12°21 | 21°39 | 23°15 | 27°49 | 26°20 | 0°57 | 23° 9 | 24°17 | 22°41 | 17°35 | n.a. | M 3 |
| T 4 | 0 37 21 | 7°36'55 | 17°22 | 20° 4 | 13°36 | 21°36 | 23° 7 | 27°56 | 26°18 | 0°56 | 23° 9 | 24°13 | 22°38 | 17°41 | n.a. | T 4 |
| W 5 | 0 41 18 | 8°37'09 | 1♑ 3 | 20°33 | 14°51 | 21°31 | 23° 0 | 28° 3 | 26°16 | 0°55 | 23° 8 | 24°12 | 22°35 | 17°48 | n.a. | W 5 |
| T 6 | 0 45 14 | 9°37'25 | 14°17 | 21°10 | 16° 7 | 21°25 | 22°52 | 28°10 | 26°13 | 0°54 | 23° 7 | 24°D11 | 22°32 | 17°55 | n.a. | T 6 |
| F 7 | 0 49 11 | 10°37'42 | 27° 8 | 21°56 | 17°22 | 21°19 | 22°45 | 28°17 | 26°11 | 0°54 | 23° 6 | 24°12 | 22°28 | 18° 1 | n.a. | F 7 |
| S 8 | 0 53 8 | 11°38'01 | 9♒39 | 22°49 | 18°37 | 21°12 | 22°38 | 28°23 | 26° 9 | 0°53 | 23° 5 | 24°14 | 22°25 | 18° 8 | n.a. | S 8 |
| S 9 | 0 57 4 | 12°38'21 | 21°56 | 23°49 | 19°53 | 21° 4 | 22°30 | 28°30 | 26° 6 | 0°52 | 23° 5 | 24°R15 | 22°22 | 18°15 | n.a. | S 9 |
| M10 | 1 1 1 | 13°38'43 | 4♓ 1 | 24°54 | 21° 8 | 20°55 | 22°23 | 28°37 | 26° 4 | 0°51 | 23° 4 | 24°14 | 22°19 | 18°22 | n.a. | M10 |
| T 11 | 1 4 57 | 14°39'06 | 15°59 | 26° 5 | 22°23 | 20°45 | 22°16 | 28°44 | 26° 1 | 0°49 | 23° 3 | 24°11 | 22°16 | 18°28 | n.a. | T 11 |
| W12 | 1 8 54 | 15°39'31 | 27°53 | 27°19 | 23°38 | 20°34 | 22°10 | 28°51 | 25°59 | 0°48 | 23° 2 | 24° 6 | 22°13 | 18°35 | n.a. | W12 |
| T 13 | 1 12 50 | 16°39'58 | 9♈44 | 28°37 | 24°54 | 20°23 | 22° 3 | 28°58 | 25°56 | 0°47 | 23° 1 | 23°59 | 22° 9 | 18°42 | n.a. | T 13 |
| F 14 | 1 16 47 | 17°40'26 | 21°35 | 29°58 | 26° 9 | 20°10 | 21°56 | 29° 5 | 25°54 | 0°46 | 23° 0 | 23°49 | 22° 6 | 18°48 | n.a. | F 14 |
| S 15 | 1 20 43 | 18°40'56 | 3♉27 | 1♎22 | 27°24 | 19°57 | 21°50 | 29°12 | 25°51 | 0°45 | 22°59 | 23°38 | 22° 3 | 18°55 | n.a. | S 15 |
| S 16 | 1 24 40 | 19°41'28 | 15°22 | 2°48 | 28°40 | 19°43 | 21°44 | 29°19 | 25°49 | 0°44 | 22°58 | 23°27 | 22° 0 | 19° 2 | n.a. | S 16 |
| M17 | 1 28 36 | 20°42'01 | 27°21 | 4°16 | 29°55 | 19°28 | 21°37 | 29°26 | 25°47 | 0°43 | 22°57 | 23°16 | 21°57 | 19° 8 | n.a. | M17 |
| T 18 | 1 32 33 | 21°42'37 | 9♊27 | 5°45 | 1♏10 | 19°13 | 21°31 | 29°33 | 25°44 | 0°41 | 22°56 | 23° 7 | 21°53 | 19°15 | n.a. | T 18 |
| W19 | 1 36 30 | 22°43'14 | 21°42 | 7°15 | 2°26 | 18°56 | 21°25 | 29°40 | 25°42 | 0°40 | 22°55 | 23° 0 | 21°50 | 19°22 | n.a. | W19 |
| T 20 | 1 40 26 | 23°43'53 | 4♋ 8 | 8°46 | 3°41 | 18°39 | 21°20 | 29°47 | 25°39 | 0°39 | 22°54 | 22°56 | 21°47 | 19°29 | n.a. | T 20 |
| F 21 | 1 44 23 | 24°44'34 | 16°50 | 10°18 | 4°56 | 18°22 | 21°14 | 29°54 | 25°37 | 0°38 | 22°53 | 22°54 | 21°44 | 19°35 | n.a. | F 21 |
| S 22 | 1 48 19 | 25°45'17 | 29°52 | 11°51 | 6°11 | 18° 3 | 21° 9 | 0♏ 1 | 25°34 | 0°36 | 22°52 | 22°D53 | 21°41 | 19°42 | n.a. | S 22 |
| S 23 | 1 52 16 | 26°46'01 | 13♌17 | 13°24 | 7°27 | 17°44 | 21° 4 | 0° 8 | 25°31 | 0°35 | 22°51 | 22°54 | 21°38 | 19°49 | n.a. | S 23 |
| M24 | 1 56 12 | 27°46'47 | 27° 8 | 14°58 | 8°42 | 17°24 | 20°58 | 0°15 | 25°29 | 0°34 | 22°50 | 22°R54 | 21°34 | 19°55 | n.a. | M24 |
| T 25 | 2 0 9 | 28°47'35 | 11♍27 | 16°32 | 9°57 | 17° 4 | 20°54 | 0°22 | 25°26 | 0°32 | 22°49 | 22°53 | 21°31 | 20° 2 | n.a. | T 25 |
| W26 | 2 4 5 | 29°48'24 | 26°11 | 18° 6 | 11°13 | 16°43 | 20°49 | 0°29 | 25°24 | 0°31 | 22°48 | 22°49 | 21°28 | 20° 9 | n.a. | W26 |
| T 27 | 2 8 2 | 0♏49'15 | 11♎15 | 19°40 | 12°28 | 16°22 | 20°44 | 0°37 | 25°21 | 0°29 | 22°47 | 22°42 | 21°25 | 20°15 | n.a. | T 27 |
| F 28 | 2 11 59 | 1°50'08 | 26°32 | 21°15 | 13°43 | 16° 1 | 20°40 | 0°44 | 25°19 | 0°28 | 22°46 | 22°33 | 21°22 | 20°22 | n.a. | F 28 |
| S 29 | 2 15 55 | 2°51'01 | 11♏51 | 22°49 | 14°59 | 15°38 | 20°36 | 0°51 | 25°16 | 0°26 | 22°45 | 22°23 | 21°18 | 20°29 | n.a. | S 29 |
| S 30 | 2 19 52 | 3°51'56 | 26°59 | 24°24 | 16°14 | 15°16 | 20°32 | 0°58 | 25°14 | 0°25 | 22°44 | 22°12 | 21°15 | 20°36 | n.a. | S 30 |
| M31 | 2 23 48 | 4♏52'53 | 11♐47 | 25♎58 | 17♏29 | 14♉53 | 20♓28 | 1♏ 5 | 25♈12 | 0♊24 | 22♉43 | 22♒ 2 | 21♒12 | 20♈42 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 1s51 | 17s25 | 4s50 | 5n 5 | 1n 2 | 3s 4 | 0n57 | 17n36 | 0s50 | 4s13 | 1s45 | 8s44 | 2n 9 | 9n50 | 0s30 | 19n 6 | 1s31 | 10n 4 | 9s 0 | 13s31 | 14s 4 | 10n45 | | n.a. |
| S 2 | 2 15 | 22 29 | 5 8 | 5 19 | 1 16 | 3 36 | 0 55 | 17 38 | 0 47 | 4 16 | 1 45 | 8 47 | 2 8 | 9 49 | 0 30 | 19 5 | 1 31 | 10 4 | 9 0 | 13 33 | 14 5 | 10 48 | | n.a. |
| M 3 | 2 39 | 26 2 | 5 6 | 5 27 | 1 28 | 4 7 | 0 53 | 17 39 | 0 45 | 4 19 | 1 45 | 8 49 | 2 8 | 9 49 | 0 30 | 19 5 | 1 31 | 10 3 | 9 0 | 13 34 | 14 6 | 10 51 | | n.a. |
| T 4 | 3 3 | 27 49 | 4 45 | 5 29 | 1 39 | 4 38 | 0 51 | 17 40 | 0 43 | 4 22 | 1 45 | 8 52 | 2 8 | 9 48 | 0 30 | 19 5 | 1 31 | 10 3 | 9 0 | 13 36 | 14 7 | 10 54 | | n.a. |
| W 5 | 3 27 | 27 50 | 4 8 | 5 26 | 1 48 | 5 10 | 0 49 | 17 41 | 0 41 | 4 25 | 1 45 | 8 54 | 2 8 | 9 47 | 0 30 | 19 5 | 1 31 | 10 3 | 9 0 | 13 36 | 14 8 | 10 58 | | n.a. |
| T 6 | 3 51 | 26 14 | 3 19 | 5 18 | 1 55 | 5 41 | 0 47 | 17 42 | 0 39 | 4 28 | 1 45 | 8 57 | 2 8 | 9 46 | 0 30 | 19 5 | 1 31 | 10 3 | 9 0 | 13 36 | 14 10 | 11 1 | | n.a. |
| F 7 | 4 15 | 23 16 | 2 21 | 5 5 | 2 1 | 6 12 | 0 45 | 17 42 | 0 37 | 4 30 | 1 45 | 8 59 | 2 8 | 9 45 | 0 30 | 19 4 | 1 31 | 10 2 | 9 0 | 13 36 | 14 11 | 11 4 | | n.a. |
| S 8 | 4 39 | 19 17 | 1 18 | 4 48 | 2 6 | 6 43 | 0 43 | 17 43 | 0 34 | 4 33 | 1 44 | 9 2 | 2 8 | 9 44 | 0 30 | 19 4 | 1 32 | 10 2 | 9 0 | 13 36 | 14 12 | 11 7 | | n.a. |
| S 9 | 5 3 | 14 33 | 0 12 | 4 27 | 2 9 | 7 13 | 0 41 | 17 43 | 0 32 | 4 36 | 1 44 | 9 4 | 2 8 | 9 43 | 0 30 | 19 4 | 1 32 | 10 2 | 9 0 | 13 35 | 14 13 | 11 10 | | n.a. |
| M10 | 5 27 | 9 20 | 0n53 | 4 3 | 2 11 | 7 44 | 0 39 | 17 43 | 0 29 | 4 38 | 1 44 | 9 7 | 2 8 | 9 42 | 0 30 | 19 4 | 1 32 | 10 1 | 9 0 | 13 35 | 14 14 | 11 13 | | n.a. |
| T 11 | 5 50 | 3 50 | 1 54 | 3 36 | 2 12 | 8 14 | 0 37 | 17 42 | 0 27 | 4 41 | 1 44 | 9 10 | 2 8 | 9 42 | 0 30 | 19 3 | 1 32 | 10 1 | 9 1 | 13 36 | 14 15 | 11 16 | | n.a. |
| W12 | 6 14 | 1n45 | 2 51 | 3 6 | 2 12 | 8 44 | 0 35 | 17 42 | 0 25 | 4 44 | 1 44 | 9 12 | 2 8 | 9 41 | 0 30 | 19 3 | 1 32 | 10 1 | 9 1 | 13 38 | 14 16 | 11 19 | | n.a. |
| T 13 | 6 37 | 7 15 | 3 39 | 2 34 | 2 12 | 9 14 | 0 33 | 17 41 | 0 22 | 4 46 | 1 43 | 9 15 | 2 7 | 9 40 | 0 30 | 19 3 | 1 32 | 10 0 | 9 1 | 13 41 | 14 17 | 11 22 | | n.a. |
| F 14 | 7 1 | 12 29 | 4 18 | 2 0 | 2 10 | 9 44 | 0 30 | 17 40 | 0 20 | 4 49 | 1 43 | 9 17 | 2 7 | 9 39 | 0 30 | 19 3 | 1 32 | 10 0 | 9 1 | 13 44 | 14 18 | 11 25 | | n.a. |
| S 15 | 7 24 | 17 16 | 4 46 | 1 24 | 2 8 | 10 14 | 0 28 | 17 39 | 0 17 | 4 51 | 1 43 | 9 20 | 2 7 | 9 38 | 0 30 | 19 2 | 1 32 | 10 0 | 9 1 | 13 47 | 14 19 | 11 28 | | n.a. |
| S 16 | 7 47 | 21 25 | 5 1 | 0 47 | 2 5 | 10 43 | 0 26 | 17 38 | 0 14 | 4 53 | 1 43 | 9 22 | 2 7 | 9 37 | 0 30 | 19 2 | 1 32 | 10 0 | 9 1 | 13 51 | 14 20 | 11 31 | | n.a. |
| M17 | 8 10 | 24 42 | 5 3 | 0 9 | 2 1 | 11 12 | 0 24 | 17 36 | 0 12 | 4 56 | 1 43 | 9 25 | 2 7 | 9 36 | 0 30 | 19 2 | 1 32 | 9 59 | 9 1 | 13 55 | 14 21 | 11 34 | | n.a. |
| T 18 | 8 33 | 26 55 | 4 52 | 0s31 | 1 57 | 11 41 | 0 21 | 17 35 | 0 9 | 4 58 | 1 42 | 9 27 | 2 7 | 9 35 | 0 30 | 19 2 | 1 32 | 9 59 | 9 1 | 13 58 | 14 22 | 11 37 | | n.a. |
| W19 | 8 56 | 27 53 | 4 27 | 1 11 | 1 53 | 12 9 | 0 19 | 17 33 | 0 6 | 5 0 | 1 42 | 9 30 | 2 7 | 9 34 | 0 30 | 19 1 | 1 32 | 9 59 | 9 1 | 14 0 | 14 23 | 11 40 | | n.a. |
| T 20 | 9 19 | 27 28 | 3 50 | 1 52 | 1 48 | 12 37 | 0 17 | 17 31 | 0 4 | 5 2 | 1 42 | 9 32 | 2 7 | 9 33 | 0 30 | 19 1 | 1 32 | 9 58 | 9 1 | 14 2 | 14 24 | 11 43 | | n.a. |
| F 21 | 9 41 | 25 36 | 3 0 | 2 33 | 1 43 | 13 5 | 0 14 | 17 28 | 0 1 | 5 4 | 1 42 | 9 35 | 2 7 | 9 32 | 0 30 | 19 1 | 1 32 | 9 58 | 9 1 | 14 2 | 14 25 | 11 46 | | n.a. |
| S 22 | 10 4 | 22 21 | 2 0 | 3 14 | 1 38 | 13 33 | 0 12 | 17 26 | 0n 2 | 5 6 | 1 41 | 9 38 | 2 7 | 9 32 | 0 30 | 19 0 | 1 32 | 9 58 | 9 1 | 14 2 | 14 26 | 11 49 | | n.a. |
| S 23 | 10 26 | 17 50 | 0 51 | 3 56 | 1 32 | 14 0 | 0 9 | 17 23 | 0 5 | 5 8 | 1 41 | 9 40 | 2 7 | 9 31 | 0 30 | 19 0 | 1 32 | 9 58 | 9 1 | 14 2 | 14 27 | 11 52 | | n.a. |
| M24 | 10 48 | 12 15 | 0s23 | 4 38 | 1 26 | 14 27 | 0 7 | 17 20 | 0 7 | 5 10 | 1 41 | 9 43 | 2 7 | 9 30 | 0 30 | 19 0 | 1 32 | 9 57 | 9 1 | 14 2 | 14 28 | 11 55 | | n.a. |
| T 25 | 11 10 | 5 52 | 1 37 | 5 20 | 1 20 | 14 53 | 0 5 | 17 17 | 0 10 | 5 11 | 1 41 | 9 45 | 2 7 | 9 29 | 0 30 | 19 0 | 1 32 | 9 57 | 9 1 | 14 3 | 14 29 | 11 58 | | n.a. |
| W26 | 11 32 | 1s 1 | 2 47 | 6 2 | 1 14 | 15 20 | 0 2 | 17 14 | 0 13 | 5 13 | 1 40 | 9 48 | 2 7 | 9 28 | 0 30 | 18 59 | 1 32 | 9 57 | 9 1 | 14 4 | 14 30 | 12 1 | | n.a. |
| T 27 | 11 53 | 7 58 | 3 47 | 6 44 | 1 8 | 15 45 | 0s 0 | 17 10 | 0 16 | 5 14 | 1 40 | 9 50 | 2 7 | 9 27 | 0 30 | 18 59 | 1 32 | 9 56 | 9 1 | 14 6 | 14 31 | 12 4 | | n.a. |
| F 28 | 12 15 | 14 33 | 4 32 | 7 26 | 1 1 | 16 11 | 0 3 | 17 6 | 0 18 | 5 16 | 1 40 | 9 53 | 2 7 | 9 26 | 0 30 | 18 59 | 1 32 | 9 56 | 9 2 | 14 9 | 14 32 | 12 7 | | n.a. |
| S 29 | 12 36 | 20 15 | 4 57 | 8 8 | 0 55 | 16 36 | 0 5 | 17 3 | 0 21 | 5 17 | 1 40 | 9 55 | 2 7 | 9 25 | 0 30 | 18 58 | 1 32 | 9 56 | 9 2 | 14 12 | 14 33 | 12 10 | | n.a. |
| S 30 | 12 57 | 24 34 | 5 1 | 8 49 | 0 48 | 17 0 | 0 8 | 16 59 | 0 24 | 5 19 | 1 39 | 9 58 | 2 7 | 9 24 | 0 30 | 18 58 | 1 32 | 9 55 | 9 2 | 14 16 | 14 34 | 12 13 | | n.a. |
| M31 | 13s18 | 27s 9 | 4s44 | 9s30 | 0n41 | 17s24 | 0s10 | 16n55 | 0n27 | 5s20 | 1s39 | 10s 0 | 2n 7 | 9n23 | 0s30 | 18n58 | 1s32 | 9n55 | 9s 2 | 14s19 | 14s35 | 12n16 | | n.a. |

Julian Day Number = 1693206.5, Delta T = 03h09m24s
Ecliptic obliquity = 23°42'24, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°07'52, Lahiri = - 5°00'51 Julian Calendar 1 Oct. 78 BCE == Greg. Calendar 29 Sept. 078 BCE

The year -77 astronomical counting style corresponds to year 078 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 78 BCE
# geocentric

## NOVEMBER 78 BCE (-77) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 2 27 45 | 5♏53'50 | 26♐ 8 | 27♎32 | 18♏44 | 14°R30 | 20°R24 | 1♏12 | 25°R 9 | 0°R22 | 22°R42 | 21°R54 | 21♒ 9 | 20♈49 | n.a. | T 1 |
| W 2 | 2 31 41 | 6°54'48 | 9♑59 | 29° 7 | 20° 0 | 14♉ 7 | 20♓21 | 1°19 | 25♈ 7 | 0♊20 | 22♉41 | 21♒49 | 21° 6 | 20°56 | n.a. | W 2 |
| T 3 | 2 35 38 | 7°55'47 | 23°20 | 0♏41 | 21°15 | 13°44 | 20°18 | 1°26 | 25° 4 | 0°19 | 22°39 | 21°46 | 21° 3 | 21° 2 | n.a. | T 3 |
| F 4 | 2 39 35 | 8°56'47 | 6♒13 | 2°16 | 22°30 | 13°21 | 20°15 | 1°33 | 25° 2 | 0°17 | 22°38 | 21°D45 | 20°59 | 21° 9 | n.a. | F 4 |
| S 5 | 2 43 31 | 9°57'47 | 18°44 | 3°50 | 23°45 | 12°57 | 20°12 | 1°40 | 24°59 | 0°16 | 22°37 | 21°R45 | 20°56 | 21°16 | n.a. | S 5 |
| S 6 | 2 47 28 | 10°58'48 | 0♓57 | 5°24 | 25° 1 | 12°34 | 20° 9 | 1°47 | 24°57 | 0°14 | 22°36 | 21°45 | 20°53 | 21°22 | n.a. | S 6 |
| M 7 | 2 51 24 | 11°59'50 | 12°58 | 6°58 | 26°16 | 12°10 | 20° 7 | 1°54 | 24°55 | 0°13 | 22°35 | 21°43 | 20°50 | 21°29 | n.a. | M 7 |
| T 8 | 2 55 21 | 13° 0'53 | 24°51 | 8°32 | 27°31 | 11°47 | 20° 5 | 2° 1 | 24°52 | 0°11 | 22°34 | 21°39 | 20°47 | 21°36 | n.a. | T 8 |
| W 9 | 2 59 17 | 14° 1'56 | 6♈41 | 10° 7 | 28°46 | 11°24 | 20° 3 | 2° 8 | 24°50 | 0° 9 | 22°33 | 21°32 | 20°44 | 21°43 | n.a. | W 9 |
| T 10 | 3 3 14 | 15° 3'00 | 18°31 | 11°41 | 0♐ 1 | 11° 1 | 20° 1 | 2°15 | 24°48 | 0° 8 | 22°31 | 21°22 | 20°40 | 21°49 | n.a. | T 10 |
| F 11 | 3 7 10 | 16° 4'05 | 0♉23 | 13°15 | 1°17 | 10°39 | 19°59 | 2°22 | 24°45 | 0° 6 | 22°30 | 21° 9 | 20°37 | 21°56 | n.a. | F 11 |
| S 12 | 3 11 7 | 17° 5'11 | 12°20 | 14°49 | 2°32 | 10°16 | 19°58 | 2°29 | 24°43 | 0° 5 | 22°29 | 20°55 | 20°34 | 22° 3 | n.a. | S 12 |
| S 13 | 3 15 3 | 18° 6'17 | 24°22 | 16°24 | 3°47 | 9°55 | 19°57 | 2°36 | 24°41 | 0° 3 | 22°28 | 20°40 | 20°31 | 22° 9 | n.a. | S 13 |
| M14 | 3 19 0 | 19° 7'25 | 6♊31 | 17°58 | 5° 2 | 9°33 | 19°56 | 2°43 | 24°39 | 0° 1 | 22°27 | 20°25 | 20°28 | 22°16 | n.a. | M14 |
| T 15 | 3 22 57 | 20° 8'33 | 18°47 | 19°32 | 6°17 | 9°12 | 19°55 | 2°50 | 24°36 | 29♉59 | 22°26 | 20°12 | 20°24 | 22°23 | n.a. | T 15 |
| W16 | 3 26 53 | 21° 9'42 | 1♋12 | 21° 7 | 7°32 | 8°51 | 19°55 | 2°56 | 24°34 | 29°58 | 22°24 | 20° 3 | 20°21 | 22°30 | n.a. | W16 |
| T 17 | 3 30 50 | 22°10'51 | 13°47 | 22°42 | 8°48 | 8°31 | 19°54 | 3° 3 | 24°32 | 29°56 | 22°23 | 19°56 | 20°18 | 22°36 | n.a. | T 17 |
| F 18 | 3 34 46 | 23°12'02 | 26°34 | 24°16 | 10° 3 | 8°12 | 19°D54 | 3°10 | 24°30 | 29°55 | 22°22 | 19°52 | 20°15 | 22°43 | n.a. | F 18 |
| S 19 | 3 38 43 | 24°13'13 | 9♌36 | 25°51 | 11°18 | 7°52 | 19°54 | 3°17 | 24°28 | 29°53 | 22°21 | 19°50 | 20°12 | 22°50 | n.a. | S 19 |
| S 20 | 3 42 39 | 25°14'25 | 22°56 | 27°26 | 12°33 | 7°34 | 19°55 | 3°24 | 24°26 | 29°51 | 22°20 | 19°50 | 20° 9 | 22°56 | n.a. | S 20 |
| M21 | 3 46 36 | 26°15'38 | 6♍36 | 29° 1 | 13°48 | 7°16 | 19°55 | 3°30 | 24°24 | 29°49 | 22°19 | 19°50 | 20° 5 | 23° 3 | n.a. | M21 |
| T 22 | 3 50 33 | 27°16'52 | 20°39 | 0♐37 | 15° 3 | 6°59 | 19°56 | 3°37 | 24°22 | 29°48 | 22°17 | 19°48 | 20° 2 | 23°10 | n.a. | T 22 |
| W23 | 3 54 29 | 28°18'06 | 5♎ 5 | 2°12 | 16°18 | 6°43 | 19°57 | 3°44 | 24°20 | 29°46 | 22°16 | 19°44 | 19°59 | 23°17 | n.a. | W23 |
| T 24 | 3 58 26 | 29°19'21 | 19°50 | 3°48 | 17°33 | 6°27 | 19°58 | 3°50 | 24°18 | 29°44 | 22°15 | 19°38 | 19°56 | 23°23 | n.a. | T 24 |
| F 25 | 4 2 22 | 0♐20'36 | 4♏50 | 5°24 | 18°48 | 6°12 | 19°59 | 3°57 | 24°16 | 29°43 | 22°14 | 19°28 | 19°53 | 23°30 | n.a. | F 25 |
| S 26 | 4 6 19 | 1°21'52 | 19°55 | 7° 0 | 20° 4 | 5°58 | 20° 1 | 4° 3 | 24°14 | 29°41 | 22°13 | 19°17 | 19°50 | 23°37 | n.a. | S 26 |
| S 27 | 4 10 15 | 2°23'08 | 4♐56 | 8°37 | 21°19 | 5°44 | 20° 2 | 4°10 | 24°12 | 29°39 | 22°12 | 19° 5 | 19°46 | 23°43 | n.a. | S 27 |
| M28 | 4 14 12 | 3°24'25 | 19°42 | 10°14 | 22°34 | 5°32 | 20° 4 | 4°16 | 24°10 | 29°37 | 22°10 | 18°54 | 19°43 | 23°50 | n.a. | M28 |
| T 29 | 4 18 8 | 4°25'41 | 4♑ 6 | 11°50 | 23°49 | 5°20 | 20° 7 | 4°23 | 24° 9 | 29°36 | 22° 9 | 18°45 | 19°40 | 23°57 | n.a. | T 29 |
| W30 | 4 22 5 | 5♐26'58 | 18♑ 3 | 13♐27 | 25♐ 4 | 5♉ 9 | 20♓ 9 | 4♏29 | 24♈ 7 | 29♉34 | 22♉ 8 | 18♒39 | 19♒37 | 24♈ 3 | n.a. | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 13s38 | 27s49 | 4s10 | 10s11 | 0n35 | 17s48 | 0s13 | 16n50 | 0n30 | 5s21 | 1s39 | 10s 3 | 2n 7 | 9n22 | 0s30 | 18n57 | 1s32 | 9n55 | 9s 2 | 14s22 | 14s36 | 12n19 | | n.a. |
| W 2 | 13 58 | 26 41 | 3 22 | 10 51 | 0 28 | 18 11 | 0 15 | 16 46 | 0 32 | 5 22 | 1 38 | 10 5 | 2 7 | 9 22 | 0 30 | 18 57 | 1 32 | 9 55 | 9 2 | 14 24 | 14 38 | 12 22 | | n.a. |
| T 3 | 14 18 | 24 2 | 2 25 | 11 31 | 0 21 | 18 33 | 0 17 | 16 42 | 0 35 | 5 23 | 1 38 | 10 8 | 2 7 | 9 21 | 0 30 | 18 57 | 1 32 | 9 54 | 9 2 | 14 24 | 14 39 | 12 25 | | n.a. |
| F 4 | 14 38 | 20 14 | 1 21 | 12 10 | 0 14 | 18 55 | 0 20 | 16 37 | 0 38 | 5 24 | 1 38 | 10 10 | 2 7 | 9 20 | 0 30 | 18 56 | 1 32 | 9 54 | 9 2 | 14 25 | 14 40 | 12 28 | | n.a. |
| S 5 | 14 58 | 15 38 | 0 16 | 12 49 | 0 8 | 19 17 | 0 22 | 16 33 | 0 41 | 5 25 | 1 38 | 10 12 | 2 7 | 9 19 | 0 30 | 18 56 | 1 32 | 9 54 | 9 2 | 14 25 | 14 41 | 12 31 | | n.a. |
| S 6 | 15 17 | 10 30 | 0n49 | 13 27 | 0 1 | 19 38 | 0 25 | 16 28 | 0 43 | 5 26 | 1 37 | 10 15 | 2 7 | 9 18 | 0 30 | 18 56 | 1 32 | 9 53 | 9 2 | 14 25 | 14 42 | 12 34 | | n.a. |
| M 7 | 15 36 | 5 5 | 1 50 | 14 5 | 0s 6 | 19 58 | 0 27 | 16 23 | 0 46 | 5 26 | 1 37 | 10 17 | 2 7 | 9 17 | 0 30 | 18 55 | 1 32 | 9 53 | 9 2 | 14 25 | 14 43 | 12 37 | | n.a. |
| T 8 | 15 55 | 0n27 | 2 45 | 14 42 | 0 12 | 20 18 | 0 30 | 16 18 | 0 48 | 5 27 | 1 37 | 10 20 | 2 7 | 9 16 | 0 30 | 18 55 | 1 32 | 9 53 | 9 2 | 14 27 | 14 44 | 12 40 | | n.a. |
| W 9 | 16 14 | 5 56 | 3 33 | 15 19 | 0 19 | 20 38 | 0 32 | 16 14 | 0 51 | 5 27 | 1 36 | 10 22 | 2 7 | 9 16 | 0 30 | 18 55 | 1 32 | 9 53 | 9 2 | 14 29 | 14 45 | 12 43 | | n.a. |
| T 10 | 16 32 | 11 13 | 4 12 | 15 54 | 0 25 | 20 56 | 0 34 | 16 9 | 0 54 | 5 28 | 1 36 | 10 25 | 2 7 | 9 15 | 0 30 | 18 54 | 1 32 | 9 52 | 9 2 | 14 32 | 14 46 | 12 46 | | n.a. |
| F 11 | 16 50 | 16 5 | 4 40 | 16 29 | 0 32 | 21 15 | 0 37 | 16 4 | 0 56 | 5 28 | 1 36 | 10 27 | 2 7 | 9 14 | 0 30 | 18 54 | 1 32 | 9 52 | 9 2 | 14 36 | 14 47 | 12 49 | | n.a. |
| S 12 | 17 7 | 20 23 | 4 56 | 17 4 | 0 38 | 21 32 | 0 39 | 15 59 | 0 59 | 5 28 | 1 35 | 10 29 | 2 7 | 9 13 | 0 30 | 18 53 | 1 32 | 9 52 | 9 2 | 14 41 | 14 48 | 12 52 | | n.a. |
| S 13 | 17 25 | 23 53 | 4 58 | 17 38 | 0 44 | 21 49 | 0 41 | 15 55 | 1 1 | 5 29 | 1 35 | 10 32 | 2 7 | 9 12 | 0 30 | 18 53 | 1 32 | 9 52 | 9 2 | 14 46 | 14 49 | 12 55 | | n.a. |
| M14 | 17 42 | 26 21 | 4 48 | 18 10 | 0 50 | 22 5 | 0 44 | 15 50 | 1 3 | 5 29 | 1 35 | 10 34 | 2 7 | 9 11 | 0 30 | 18 53 | 1 32 | 9 51 | 9 1 | 14 51 | 14 50 | 12 58 | | n.a. |
| T 15 | 17 59 | 27 36 | 4 23 | 18 42 | 0 56 | 22 21 | 0 46 | 15 45 | 1 6 | 5 29 | 1 34 | 10 36 | 2 7 | 9 11 | 0 30 | 18 52 | 1 32 | 9 51 | 9 1 | 14 55 | 14 51 | 13 1 | | n.a. |
| W16 | 18 15 | 27 28 | 3 46 | 19 14 | 1 2 | 22 36 | 0 48 | 15 41 | 1 8 | 5 29 | 1 34 | 10 39 | 2 7 | 9 10 | 0 30 | 18 52 | 1 32 | 9 51 | 9 1 | 14 58 | 14 52 | 13 4 | | n.a. |
| T 17 | 18 31 | 25 56 | 2 58 | 19 44 | 1 7 | 22 50 | 0 50 | 15 36 | 1 10 | 5 28 | 1 34 | 10 41 | 2 7 | 9 9 | 0 30 | 18 52 | 1 32 | 9 51 | 9 1 | 15 0 | 14 53 | 13 7 | | n.a. |
| F 18 | 18 47 | 23 2 | 2 0 | 20 13 | 1 13 | 23 4 | 0 52 | 15 32 | 1 12 | 5 28 | 1 33 | 10 43 | 2 7 | 9 8 | 0 30 | 18 51 | 1 32 | 9 50 | 9 1 | 15 1 | 14 54 | 13 10 | | n.a. |
| S 19 | 19 2 | 18 55 | 0 54 | 20 42 | 1 18 | 23 17 | 0 55 | 15 28 | 1 14 | 5 28 | 1 33 | 10 46 | 2 7 | 9 8 | 0 30 | 18 51 | 1 32 | 9 50 | 9 1 | 15 2 | 14 55 | 13 12 | | n.a. |
| S 20 | 19 17 | 13 46 | 0s16 | 21 9 | 1 23 | 23 29 | 0 57 | 15 23 | 1 16 | 5 27 | 1 33 | 10 48 | 2 7 | 9 7 | 0 30 | 18 51 | 1 32 | 9 50 | 9 1 | 15 2 | 14 56 | 13 15 | | n.a. |
| M21 | 19 32 | 7 50 | 1 27 | 21 36 | 1 28 | 23 41 | 0 59 | 15 19 | 1 18 | 5 27 | 1 32 | 10 50 | 2 7 | 9 6 | 0 30 | 18 50 | 1 32 | 9 50 | 9 1 | 15 2 | 14 57 | 13 18 | | n.a. |
| T 22 | 19 46 | 1 22 | 2 35 | 22 1 | 1 33 | 23 52 | 1 1 | 15 16 | 1 20 | 5 26 | 1 32 | 10 52 | 2 7 | 9 5 | 0 30 | 18 50 | 1 32 | 9 49 | 9 1 | 15 2 | 14 58 | 13 21 | | n.a. |
| W23 | 20 0 | 5s19 | 3 35 | 22 25 | 1 37 | 24 2 | 1 3 | 15 12 | 1 22 | 5 26 | 1 32 | 10 55 | 2 7 | 9 5 | 0 30 | 18 50 | 1 32 | 9 49 | 9 1 | 15 4 | 14 59 | 13 24 | | n.a. |
| T 24 | 20 14 | 11 52 | 4 21 | 22 48 | 1 41 | 24 11 | 1 5 | 15 8 | 1 24 | 5 25 | 1 31 | 10 57 | 2 7 | 9 4 | 0 30 | 18 49 | 1 32 | 9 49 | 9 1 | 15 6 | 15 0 | 13 27 | | n.a. |
| F 25 | 20 27 | 17 50 | 4 51 | 23 10 | 1 45 | 24 20 | 1 7 | 15 5 | 1 26 | 5 24 | 1 31 | 10 59 | 2 7 | 9 3 | 0 30 | 18 49 | 1 32 | 9 49 | 9 1 | 15 9 | 15 1 | 13 30 | | n.a. |
| S 26 | 20 40 | 22 44 | 5 0 | 23 31 | 1 49 | 24 28 | 1 9 | 15 2 | 1 27 | 5 23 | 1 31 | 11 1 | 2 7 | 9 3 | 0 30 | 18 48 | 1 32 | 9 48 | 9 1 | 15 12 | 15 2 | 13 33 | | n.a. |
| S 27 | 20 52 | 26 6 | 4 49 | 23 50 | 1 53 | 24 35 | 1 10 | 14 59 | 1 29 | 5 22 | 1 30 | 11 3 | 2 7 | 9 2 | 0 29 | 18 48 | 1 32 | 9 48 | 9 1 | 15 16 | 15 3 | 13 36 | | n.a. |
| M28 | 21 4 | 27 36 | 4 19 | 24 8 | 1 56 | 24 42 | 1 12 | 14 56 | 1 31 | 5 21 | 1 30 | 11 5 | 2 7 | 9 1 | 0 29 | 18 48 | 1 32 | 9 48 | 9 1 | 15 19 | 15 4 | 13 39 | | n.a. |
| T 29 | 21 16 | 27 11 | 3 32 | 24 25 | 1 59 | 24 47 | 1 14 | 14 53 | 1 32 | 5 20 | 1 30 | 11 7 | 2 7 | 9 1 | 0 29 | 18 47 | 1 32 | 9 48 | 9 1 | 15 22 | 15 5 | 13 41 | | n.a. |
| W30 | 21s27 | 25s 1 | 2s34 | 24s40 | 2s 1 | 24s52 | 1s16 | 14n51 | 1n34 | 5s19 | 1s29 | 11s10 | 2n 7 | 9n 0 | 0s29 | 18n47 | 1s32 | 9n48 | 9s 1 | 15s24 | 15s 6 | 13n44 | | n.a. |

Julian Day Number = 1693237.5, Delta T = 03h09m23s
Ecliptic obliquity = 23°42'23, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°07'47, Lahiri = - 5°00'47 Julian Calendar 1 Nov. 78 BCE == Greg. Calendar 30 Oct. 078 BCE

The year -77 astronomical counting style corresponds to year 078 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 78 BCE
# geocentric

## DECEMBER 78 BCE (-77) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 4 26 2 | 6♐28'14 | 1♒30 | 15♐ 5 | 26♐19 | 4°R58 | 20♓12 | 4♏36 | 24°R 5 | 29°R32 | 22°R 7 | 18°R35 | 19♒34 | 24♈10 | n.a. | T 1 |
| F 2 | 4 29 58 | 7°29'30 | 14°30 | 16°42 | 27°34 | 4♉49 | 20°14 | 4°42 | 24♈ 4 | 29♉31 | 22♉ 6 | 18°D34 | 19°30 | 24°17 | n.a. | F 2 |
| S 3 | 4 33 55 | 8°30'46 | 27° 6 | 18°19 | 28°49 | 4°40 | 20°17 | 4°48 | 24° 2 | 29°29 | 22° 5 | 18♒34 | 19°27 | 24°24 | n.a. | S 3 |
| S 4 | 4 37 51 | 9°32'02 | 9♓22 | 19°57 | 0♑ 4 | 4°33 | 20°20 | 4°55 | 24° 1 | 29°27 | 22° 4 | 18°R35 | 19°24 | 24°30 | n.a. | S 4 |
| M 5 | 4 41 48 | 10°33'17 | 21°25 | 21°35 | 1°19 | 4°26 | 20°24 | 5° 1 | 23°59 | 29°26 | 22° 2 | 18°34 | 19°21 | 24°37 | n.a. | M 5 |
| T 6 | 4 45 44 | 11°34'31 | 3♈18 | 23°12 | 2°33 | 4°20 | 20°27 | 5° 7 | 23°58 | 29°24 | 22° 1 | 18°31 | 19°18 | 24°44 | n.a. | T 6 |
| W 7 | 4 49 41 | 12°35'45 | 15° 8 | 24°50 | 3°48 | 4°14 | 20°31 | 5°13 | 23°56 | 29°22 | 22° 0 | 18°26 | 19°15 | 24°50 | n.a. | W 7 |
| T 8 | 4 53 37 | 13°36'59 | 26°58 | 26°27 | 5° 3 | 4°10 | 20°35 | 5°19 | 23°55 | 29°21 | 21°59 | 18°19 | 19°11 | 24°57 | n.a. | T 8 |
| F 9 | 4 57 34 | 14°38'13 | 8♉53 | 28° 4 | 6°18 | 4° 6 | 20°39 | 5°25 | 23°53 | 29°19 | 21°58 | 18° 9 | 19° 8 | 25° 4 | n.a. | F 9 |
| S 10 | 5 1 31 | 15°39'26 | 20°55 | 29°40 | 7°33 | 4° 3 | 20°43 | 5°31 | 23°52 | 29°17 | 21°57 | 17°57 | 19° 5 | 25°11 | n.a. | S 10 |
| S 11 | 5 5 27 | 16°40'39 | 3♊ 6 | 1♑16 | 8°48 | 4° 1 | 20°48 | 5°37 | 23°51 | 29°16 | 21°56 | 17°45 | 19° 2 | 25°17 | n.a. | S 11 |
| M12 | 5 9 24 | 17°41'51 | 15°27 | 2°50 | 10° 3 | 4° 0 | 20°53 | 5°43 | 23°50 | 29°14 | 21°55 | 17°33 | 18°59 | 25°24 | n.a. | M12 |
| T 13 | 5 13 20 | 18°43'03 | 27°59 | 4°24 | 11°17 | 4°D 0 | 20°58 | 5°49 | 23°48 | 29°13 | 21°54 | 17°23 | 18°56 | 25°31 | n.a. | T 13 |
| W14 | 5 17 17 | 19°44'14 | 10♋41 | 5°57 | 12°32 | 4° 0 | 21° 3 | 5°54 | 23°47 | 29°11 | 21°53 | 17°14 | 18°52 | 25°37 | n.a. | W14 |
| T 15 | 5 21 13 | 20°45'25 | 23°34 | 7°27 | 13°47 | 4° 1 | 21° 8 | 6° 0 | 23°46 | 29° 9 | 21°52 | 17° 9 | 18°49 | 25°44 | n.a. | T 15 |
| F 16 | 5 25 10 | 21°46'36 | 6♌38 | 8°56 | 15° 2 | 4° 3 | 21°13 | 6° 6 | 23°45 | 29° 8 | 21°51 | 17° 6 | 18°46 | 25°51 | n.a. | F 16 |
| S 17 | 5 29 7 | 22°47'46 | 19°53 | 10°22 | 16°16 | 4° 5 | 21°19 | 6°11 | 23°44 | 29° 6 | 21°50 | 17°D 6 | 18°43 | 25°58 | n.a. | S 17 |
| S 18 | 5 33 3 | 23°48'56 | 3♍21 | 11°45 | 17°31 | 4° 9 | 21°25 | 6°17 | 23°43 | 29° 5 | 21°49 | 17° 7 | 18°40 | 26° 4 | n.a. | S 18 |
| M19 | 5 37 0 | 24°50'06 | 17° 3 | 13° 5 | 18°46 | 4°13 | 21°31 | 6°22 | 23°43 | 29° 3 | 21°48 | 17° 8 | 18°36 | 26°11 | n.a. | M19 |
| T 20 | 5 40 56 | 25°51'15 | 0♎59 | 14°20 | 20° 0 | 4°17 | 21°37 | 6°28 | 23°42 | 29° 2 | 21°47 | 17°R 8 | 18°33 | 26°18 | n.a. | T 20 |
| W21 | 5 44 53 | 26°52'24 | 15°10 | 15°31 | 21°15 | 4°23 | 21°43 | 6°33 | 23°41 | 29° 0 | 21°46 | 17° 6 | 18°30 | 26°24 | n.a. | W21 |
| T 22 | 5 48 49 | 27°53'32 | 29°34 | 16°35 | 22°29 | 4°29 | 21°49 | 6°38 | 23°40 | 28°59 | 21°45 | 17° 3 | 18°27 | 26°31 | n.a. | T 22 |
| F 23 | 5 52 46 | 28°54'40 | 14♏ 8 | 17°34 | 23°44 | 4°36 | 21°56 | 6°44 | 23°40 | 28°58 | 21°44 | 16°57 | 18°24 | 26°38 | n.a. | F 23 |
| S 24 | 5 56 42 | 29°55'48 | 28°46 | 18°25 | 24°58 | 4°43 | 22° 3 | 6°49 | 23°39 | 28°56 | 21°43 | 16°50 | 18°21 | 26°45 | n.a. | S 24 |
| S 25 | 6 0 39 | 0♑56'54 | 13♐22 | 19° 8 | 26°13 | 4°51 | 22°10 | 6°54 | 23°38 | 28°55 | 21°42 | 16°42 | 18°17 | 26°51 | n.a. | S 25 |
| M26 | 6 4 36 | 1°58'00 | 27°48 | 19°42 | 27°28 | 5° 0 | 22°17 | 6°59 | 23°38 | 28°53 | 21°42 | 16°34 | 18°14 | 26°58 | n.a. | M26 |
| T 27 | 6 8 32 | 2°59'06 | 11♑58 | 20° 6 | 28°42 | 5° 9 | 22°24 | 7° 4 | 23°37 | 28°52 | 21°41 | 16°28 | 18°11 | 27° 5 | n.a. | T 27 |
| W28 | 6 12 29 | 4° 0'10 | 25°48 | 20°19 | 29°56 | 5°19 | 22°32 | 7° 9 | 23°37 | 28°51 | 21°40 | 16°24 | 18° 8 | 27°11 | n.a. | W28 |
| T 29 | 6 16 25 | 5° 1'13 | 9♒13 | 20°R22 | 1♒11 | 5°30 | 22°39 | 7°14 | 23°37 | 28°49 | 21°39 | 16°22 | 18° 5 | 27°18 | n.a. | T 29 |
| F 30 | 6 20 22 | 6° 2'14 | 22°15 | 20°13 | 2°25 | 5°41 | 22°47 | 7°18 | 23°36 | 28°48 | 21°38 | 16°D22 | 18° 2 | 27°25 | n.a. | F 30 |
| S 31 | 6 24 18 | 7♑ 3'15 | 4♓55 | 19♑53 | 3♒40 | 5♉52 | 22♓55 | 7♏23 | 23♈36 | 28♉47 | 21♉37 | 16♒24 | 17♒58 | 27♈32 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| T 1 | 21 s38 | 21 s30 | 1 s29 | 24 s54 | 2 s 3 | 24 s57 | 1 s17 | 14n49 | 1n35 | 5 s17 | 1 s29 | 11 s12 | 2n 8 | 8n59 | 0 s29 | 18n47 | 1 s32 | 9n47 | 9 s 0 | 15 s25 | 15 s 7 | 13n47 | | | n.a. |
| F 2 | 21 48 | 17 0 | 0 22 | 25 6 | 2 5 | 25 0 | 1 19 | 14 47 | 1 36 | 5 16 | 1 29 | 11 14 | 2 8 | 8 59 | 0 29 | 18 46 | 1 32 | 9 47 | 9 0 | 15 26 | 15 8 | 13 50 | | | n.a. |
| S 3 | 21 58 | 11 54 | 0n45 | 25 17 | 2 6 | 25 2 | 1 20 | 14 45 | 1 38 | 5 15 | 1 28 | 11 16 | 2 8 | 8 58 | 0 29 | 18 46 | 1 32 | 9 47 | 9 0 | 15 26 | 15 9 | 13 53 | | | n.a. |
| S 4 | 22 8 | 6 28 | 1 48 | 25 26 | 2 7 | 25 4 | 1 22 | 14 44 | 1 39 | 5 13 | 1 28 | 11 18 | 2 8 | 8 58 | 0 29 | 18 46 | 1 32 | 9 47 | 9 0 | 15 26 | 15 10 | 13 56 | | | n.a. |
| M 5 | 22 17 | 0 55 | 2 45 | 25 34 | 2 8 | 25 5 | 1 23 | 14 42 | 1 40 | 5 11 | 1 28 | 11 20 | 2 8 | 8 57 | 0 29 | 18 45 | 1 32 | 9 47 | 9 0 | 15 26 | 15 11 | 13 59 | | | n.a. |
| T 6 | 22 25 | 4n36 | 3 34 | 25 39 | 2 8 | 25 6 | 1 25 | 14 41 | 1 41 | 5 10 | 1 28 | 11 22 | 2 8 | 8 57 | 0 29 | 18 45 | 1 32 | 9 47 | 9 0 | 15 27 | 15 12 | 14 2 | | | n.a. |
| W 7 | 22 34 | 9 55 | 4 14 | 25 44 | 2 7 | 25 5 | 1 26 | 14 41 | 1 42 | 5 8 | 1 27 | 11 24 | 2 8 | 8 56 | 0 29 | 18 45 | 1 32 | 9 46 | 9 0 | 15 28 | 15 13 | 14 4 | | | n.a. |
| T 8 | 22 41 | 14 53 | 4 42 | 25 46 | 2 6 | 25 4 | 1 27 | 14 40 | 1 43 | 5 6 | 1 27 | 11 26 | 2 8 | 8 56 | 0 29 | 18 44 | 1 32 | 9 46 | 9 0 | 15 31 | 15 14 | 14 7 | | | n.a. |
| F 9 | 22 49 | 19 20 | 4 59 | 25 46 | 2 5 | 25 2 | 1 29 | 14 40 | 1 44 | 5 4 | 1 27 | 11 28 | 2 8 | 8 55 | 0 29 | 18 44 | 1 32 | 9 46 | 9 0 | 15 34 | 15 15 | 14 10 | | | n.a. |
| S 10 | 22 55 | 23 2 | 5 2 | 25 45 | 2 3 | 24 59 | 1 30 | 14 40 | 1 45 | 5 2 | 1 26 | 11 30 | 2 8 | 8 55 | 0 29 | 18 44 | 1 32 | 9 46 | 8 59 | 15 37 | 15 16 | 14 13 | | | n.a. |
| S 11 | 23 2 | 25 47 | 4 52 | 25 42 | 2 0 | 24 55 | 1 31 | 14 40 | 1 46 | 5 0 | 1 26 | 11 31 | 2 8 | 8 54 | 0 29 | 18 43 | 1 32 | 9 46 | 8 59 | 15 41 | 15 17 | 14 16 | | | n.a. |
| M12 | 23 8 | 27 21 | 4 28 | 25 37 | 1 56 | 24 51 | 1 32 | 14 40 | 1 47 | 4 58 | 1 26 | 11 33 | 2 9 | 8 54 | 0 29 | 18 43 | 1 32 | 9 46 | 8 59 | 15 45 | 15 18 | 14 19 | | | n.a. |
| T 13 | 23 13 | 27 32 | 3 51 | 25 30 | 1 52 | 24 46 | 1 33 | 14 41 | 1 48 | 4 56 | 1 25 | 11 35 | 2 9 | 8 53 | 0 29 | 18 43 | 1 32 | 9 46 | 8 59 | 15 48 | 15 19 | 14 21 | | | n.a. |
| W14 | 23 18 | 26 17 | 3 2 | 25 21 | 1 47 | 24 40 | 1 34 | 14 42 | 1 49 | 4 53 | 1 25 | 11 37 | 2 9 | 8 53 | 0 29 | 18 42 | 1 32 | 9 45 | 8 59 | 15 50 | 15 20 | 14 24 | | | n.a. |
| T 15 | 23 23 | 23 38 | 2 3 | 25 11 | 1 41 | 24 33 | 1 35 | 14 43 | 1 49 | 4 51 | 1 25 | 11 39 | 2 9 | 8 53 | 0 29 | 18 42 | 1 32 | 9 45 | 8 59 | 15 52 | 15 21 | 14 27 | | | n.a. |
| F 16 | 23 27 | 19 43 | 0 56 | 24 58 | 1 35 | 24 26 | 1 35 | 14 44 | 1 50 | 4 48 | 1 24 | 11 41 | 2 9 | 8 52 | 0 29 | 18 42 | 1 32 | 9 45 | 8 59 | 15 53 | 15 22 | 14 30 | | | n.a. |
| S 17 | 23 30 | 14 47 | 0 s15 | 24 44 | 1 27 | 24 17 | 1 36 | 14 45 | 1 51 | 4 46 | 1 24 | 11 42 | 2 9 | 8 52 | 0 29 | 18 41 | 1 32 | 9 45 | 8 58 | 15 53 | 15 23 | 14 33 | | | n.a. |
| S 18 | 23 34 | 9 3 | 1 26 | 24 29 | 1 18 | 24 8 | 1 37 | 14 47 | 1 51 | 4 43 | 1 24 | 11 44 | 2 9 | 8 52 | 0 29 | 18 41 | 1 32 | 9 45 | 8 58 | 15 53 | 15 24 | 14 36 | | | n.a. |
| M19 | 23 36 | 2 49 | 2 34 | 24 12 | 1 9 | 23 59 | 1 37 | 14 49 | 1 52 | 4 41 | 1 23 | 11 46 | 2 9 | 8 51 | 0 29 | 18 41 | 1 32 | 9 45 | 8 58 | 15 52 | 15 25 | 14 38 | | | n.a. |
| T 20 | 23 38 | 3 s39 | 3 33 | 23 54 | 0 59 | 23 48 | 1 38 | 14 51 | 1 53 | 4 38 | 1 23 | 11 47 | 2 9 | 8 51 | 0 29 | 18 41 | 1 32 | 9 45 | 8 58 | 15 52 | 15 26 | 14 41 | | | n.a. |
| W21 | 23 40 | 10 2 | 4 21 | 23 34 | 0 47 | 23 37 | 1 38 | 14 54 | 1 53 | 4 35 | 1 23 | 11 49 | 2 10 | 8 51 | 0 29 | 18 40 | 1 32 | 9 45 | 8 58 | 15 53 | 15 27 | 14 44 | | | n.a. |
| T 22 | 23 41 | 16 0 | 4 53 | 23 14 | 0 35 | 23 25 | 1 38 | 14 56 | 1 54 | 4 32 | 1 23 | 11 51 | 2 10 | 8 51 | 0 29 | 18 40 | 1 32 | 9 45 | 8 58 | 15 54 | 15 28 | 14 47 | | | n.a. |
| F 23 | 23 42 | 21 8 | 5 7 | 22 53 | 0 21 | 23 13 | 1 39 | 14 59 | 1 54 | 4 29 | 1 22 | 11 52 | 2 10 | 8 50 | 0 29 | 18 40 | 1 32 | 9 45 | 8 58 | 15 56 | 15 29 | 14 50 | | | n.a. |
| S 24 | 23 42 | 24 59 | 5 1 | 22 32 | 0 6 | 23 0 | 1 39 | 15 2 | 1 55 | 4 26 | 1 22 | 11 54 | 2 10 | 8 50 | 0 29 | 18 39 | 1 32 | 9 45 | 8 57 | 15 58 | 15 30 | 14 52 | | | n.a. |
| S 25 | 23 42 | 27 12 | 4 35 | 22 10 | 0n 9 | 22 46 | 1 39 | 15 5 | 1 55 | 4 23 | 1 22 | 11 55 | 2 10 | 8 50 | 0 29 | 18 39 | 1 31 | 9 45 | 8 57 | 16 0 | 15 31 | 14 55 | | | n.a. |
| M26 | 23 41 | 27 33 | 3 52 | 21 49 | 0 26 | 22 31 | 1 39 | 15 8 | 1 55 | 4 20 | 1 21 | 11 57 | 2 10 | 8 50 | 0 29 | 18 39 | 1 31 | 9 44 | 8 57 | 16 3 | 15 32 | 14 58 | | | n.a. |
| T 27 | 23 40 | 26 4 | 2 55 | 21 29 | 0 43 | 22 16 | 1 39 | 15 12 | 1 56 | 4 17 | 1 21 | 11 58 | 2 10 | 8 50 | 0 29 | 18 39 | 1 31 | 9 44 | 8 57 | 16 4 | 15 33 | 15 1 | | | n.a. |
| W28 | 23 39 | 23 0 | 1 49 | 21 9 | 1 1 | 22 0 | 1 39 | 15 16 | 1 56 | 4 14 | 1 21 | 12 0 | 2 10 | 8 50 | 0 29 | 18 38 | 1 31 | 9 44 | 8 57 | 16 6 | 15 34 | 15 4 | | | n.a. |
| T 29 | 23 37 | 18 46 | 0 39 | 20 51 | 1 19 | 21 43 | 1 39 | 15 19 | 1 56 | 4 11 | 1 21 | 12 1 | 2 11 | 8 49 | 0 29 | 18 38 | 1 31 | 9 44 | 8 56 | 16 6 | 15 35 | 15 6 | | | n.a. |
| F 30 | 23 34 | 13 45 | 0n32 | 20 34 | 1 37 | 21 26 | 1 39 | 15 23 | 1 57 | 4 7 | 1 20 | 12 3 | 2 11 | 8 49 | 0 29 | 18 38 | 1 31 | 9 44 | 8 56 | 16 6 | 15 36 | 15 9 | | | n.a. |
| S 31 | 23 s31 | 8 s17 | 1n39 | 20 s18 | 1n56 | 21 s 9 | 1 s38 | 15n28 | 1n57 | 4 s 4 | 1 s20 | 12 s 4 | 2n11 | 8n49 | 0 s28 | 18n38 | 1 s31 | 9n44 | 8 s56 | 16 s 6 | 15 s37 | 15n12 | | | n.a. |

Julian Day Number = 1693267.5, Delta T = 03h09m22s
Ecliptic obliquity = 23°42'22, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°07'43, Lahiri = - 5°00'43 Julian Calendar 1 Dec. 78 BCE == Greg. Calendar 29 Nov. 078 BCE

The year -77 astronomical counting style corresponds to year 078 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 77 BCE
# geocentric

## JANUARY 77 BCE (-76) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 28 15 | 8♉ 4'13 | 17♓15 | 19°R22 | 4♒54 | 6♉ 5 | 23♓ 3 | 7♏28 | 23°R36 | 28°R46 | 21°R37 | 16♒25 | 17♒55 | 27♈38 | n.a. | S 1 |
| M 2 | 6 32 12 | 9° 5'11 | 29°21 | 18♉40 | 6° 8 | 6°17 | 23°11 | 7°32 | 23♈36 | 28♉44 | 21♉36 | 16°27 | 17°52 | 27°45 | n.a. | M 2 |
| T 3 | 6 36 8 | 10° 6'07 | 11♈18 | 17°49 | 7°22 | 6°31 | 23°19 | 7°37 | 23°36 | 28°43 | 21°35 | 16°R27 | 17°49 | 27°52 | n.a. | T 3 |
| W 4 | 6 40 5 | 11° 7'02 | 23° 9 | 16°50 | 8°37 | 6°45 | 23°28 | 7°41 | 23°D36 | 28°42 | 21°34 | 16°26 | 17°46 | 27°58 | n.a. | W 4 |
| T 5 | 6 44 1 | 12° 7'55 | 5♉ 1 | 15°44 | 9°51 | 6°59 | 23°37 | 7°45 | 23°36 | 28°41 | 21°34 | 16°24 | 17°42 | 28° 5 | n.a. | T 5 |
| F 6 | 6 47 58 | 13° 8'47 | 16°58 | 14°34 | 11° 5 | 7°14 | 23°45 | 7°50 | 23°36 | 28°40 | 21°33 | 16°20 | 17°39 | 28°12 | n.a. | F 6 |
| S 7 | 6 51 54 | 14° 9'37 | 29° 4 | 13°21 | 12°19 | 7°29 | 23°54 | 7°54 | 23°36 | 28°39 | 21°32 | 16°15 | 17°36 | 28°19 | n.a. | S 7 |
| S 8 | 6 55 51 | 15°10'26 | 11♊21 | 12° 9 | 13°33 | 7°45 | 24° 3 | 7°58 | 23°36 | 28°37 | 21°32 | 16° 9 | 17°33 | 28°25 | n.a. | S 8 |
| M 9 | 6 59 47 | 16°11'13 | 23°52 | 10°57 | 14°47 | 8° 2 | 24°12 | 8° 2 | 23°36 | 28°36 | 21°31 | 16° 4 | 17°30 | 28°32 | n.a. | M 9 |
| T 10 | 7 3 44 | 17°11'59 | 6♋38 | 9°50 | 16° 1 | 8°18 | 24°22 | 8° 6 | 23°36 | 28°35 | 21°31 | 15°59 | 17°27 | 28°39 | n.a. | T 10 |
| W11 | 7 7 41 | 18°12'43 | 19°40 | 8°47 | 17°15 | 8°36 | 24°31 | 8° 9 | 23°37 | 28°34 | 21°30 | 15°55 | 17°23 | 28°45 | n.a. | W11 |
| T 12 | 7 11 37 | 19°13'26 | 2♌55 | 7°50 | 18°29 | 8°53 | 24°41 | 8°13 | 23°37 | 28°33 | 21°29 | 15°53 | 17°20 | 28°52 | n.a. | T 12 |
| F 13 | 7 15 34 | 20°14'07 | 16°24 | 7° 1 | 19°42 | 9°11 | 24°50 | 8°17 | 23°38 | 28°33 | 21°29 | 15°D53 | 17°17 | 28°59 | n.a. | F 13 |
| S 14 | 7 19 30 | 21°14'47 | 0♍ 4 | 6°19 | 20°56 | 9°30 | 25° 0 | 8°20 | 23°38 | 28°32 | 21°28 | 15°53 | 17°14 | 29° 6 | n.a. | S 14 |
| S 15 | 7 23 27 | 22°15'26 | 13°53 | 5°45 | 22°10 | 9°49 | 25°10 | 8°24 | 23°39 | 28°31 | 21°28 | 15°54 | 17°11 | 29°12 | n.a. | S 15 |
| M16 | 7 27 23 | 23°16'03 | 27°51 | 5°19 | 23°23 | 10° 8 | 25°20 | 8°27 | 23°39 | 28°30 | 21°27 | 15°56 | 17° 8 | 29°19 | n.a. | M16 |
| T 17 | 7 31 20 | 24°16'39 | 11♎55 | 5° 1 | 24°37 | 10°28 | 25°30 | 8°31 | 23°40 | 28°29 | 21°27 | 15°57 | 17° 4 | 29°26 | n.a. | T 17 |
| W18 | 7 35 16 | 25°17'13 | 26° 5 | 4°50 | 25°51 | 10°48 | 25°40 | 8°34 | 23°40 | 28°28 | 21°26 | 15°R58 | 17° 1 | 29°33 | n.a. | W18 |
| T 19 | 7 39 13 | 26°17'47 | 10♏17 | 4°D47 | 27° 4 | 11° 8 | 25°51 | 8°37 | 23°41 | 28°28 | 21°26 | 15°57 | 16°58 | 29°39 | n.a. | T 19 |
| F 20 | 7 43 10 | 27°18'19 | 24°30 | 4°51 | 28°18 | 11°29 | 26° 1 | 8°40 | 23°42 | 28°27 | 21°26 | 15°56 | 16°55 | 29°46 | n.a. | F 20 |
| S 21 | 7 47 6 | 28°18'50 | 8♐41 | 5° 2 | 29°31 | 11°50 | 26°12 | 8°43 | 23°43 | 28°26 | 21°25 | 15°53 | 16°52 | 29°53 | n.a. | S 21 |
| S 22 | 7 51 3 | 29°19'19 | 22°47 | 5°18 | 0♓44 | 12°11 | 26°22 | 8°46 | 23°44 | 28°25 | 21°25 | 15°51 | 16°48 | 29°59 | n.a. | S 22 |
| M23 | 7 54 59 | 0♒19'47 | 6♉44 | 5°41 | 1°58 | 12°33 | 26°33 | 8°49 | 23°45 | 28°25 | 21°25 | 15°49 | 16°45 | 0♉ 6 | n.a. | M23 |
| T 24 | 7 58 56 | 1°20'13 | 20°28 | 6° 8 | 3°11 | 12°55 | 26°44 | 8°51 | 23°46 | 28°24 | 21°24 | 15°47 | 16°42 | 0°13 | n.a. | T 24 |
| W25 | 8 2 52 | 2°20'37 | 3♒57 | 6°41 | 4°24 | 13°17 | 26°55 | 8°54 | 23°47 | 28°24 | 21°24 | 15°46 | 16°39 | 0°20 | n.a. | W25 |
| T 26 | 8 6 49 | 3°20'59 | 17° 9 | 7°18 | 5°37 | 13°40 | 27° 6 | 8°56 | 23°48 | 28°23 | 21°24 | 15°D46 | 16°36 | 0°26 | n.a. | T 26 |
| F 27 | 8 10 45 | 4°21'20 | 0♓ 2 | 7°59 | 6°50 | 14° 3 | 27°17 | 8°59 | 23°49 | 28°23 | 21°23 | 15°46 | 16°33 | 0°33 | n.a. | F 27 |
| S 28 | 8 14 42 | 5°21'38 | 12°38 | 8°45 | 8° 3 | 14°26 | 27°29 | 9° 1 | 23°50 | 28°22 | 21°23 | 15°47 | 16°29 | 0°40 | n.a. | S 28 |
| S 29 | 8 18 39 | 6°21'55 | 24°59 | 9°33 | 9°16 | 14°50 | 27°40 | 9° 3 | 23°51 | 28°22 | 21°23 | 15°48 | 16°26 | 0°46 | n.a. | S 29 |
| M30 | 8 22 35 | 7°22'09 | 7♈ 6 | 10°26 | 10°29 | 15°14 | 27°52 | 9° 5 | 23°53 | 28°21 | 21°23 | 15°49 | 16°23 | 0°53 | n.a. | M30 |
| T 31 | 8 26 32 | 8♒22'21 | 19♈ 4 | 11♉21 | 11♓42 | 15♉38 | 28♓ 3 | 9♏ 7 | 23♈54 | 28♉21 | 21♉23 | 15♒50 | 16♒20 | 1♉ 0 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| S 1 | 23s27 | 2s38 | 2n40 | 20s 5 | 2n14 | 20s50 | 1s38 | 15n32 | 1n57 | 4s 0 | 1s20 | 12s 5 | 2n11 | 8n49 | 0s28 | 18n37 | 1s31 | 9n44 | 8s56 | 16s 5 | 15s38 | 15n15 | | | n.a. |
| M 2 | 23 23 | 2n59 | 3 32 | 19 54 | 2 31 | 20 31 | 1 37 | 15 37 | 1 57 | 3 57 | 1 19 | 12 7 | 2 11 | 8 49 | 0 28 | 18 37 | 1 31 | 9 44 | 8 56 | 16 5 | 15 39 | 15 17 | | | n.a. |
| T 3 | 23 19 | 8 25 | 4 15 | 19 45 | 2 47 | 20 12 | 1 37 | 15 41 | 1 58 | 3 53 | 1 19 | 12 8 | 2 11 | 8 49 | 0 28 | 18 37 | 1 31 | 9 44 | 8 56 | 16 5 | 15 40 | 15 20 | | | n.a. |
| W 4 | 23 14 | 13 31 | 4 46 | 19 38 | 3 1 | 19 51 | 1 36 | 15 46 | 1 58 | 3 50 | 1 19 | 12 9 | 2 11 | 8 49 | 0 28 | 18 37 | 1 31 | 9 44 | 8 55 | 16 5 | 15 41 | 15 23 | | | n.a. |
| T 5 | 23 9 | 18 7 | 5 5 | 19 33 | 3 14 | 19 31 | 1 36 | 15 51 | 1 58 | 3 46 | 1 19 | 12 11 | 2 12 | 8 49 | 0 28 | 18 37 | 1 31 | 9 44 | 8 55 | 16 6 | 15 42 | 15 26 | | | n.a. |
| F 6 | 23 3 | 22 3 | 5 11 | 19 31 | 3 25 | 19 10 | 1 35 | 15 56 | 1 58 | 3 42 | 1 18 | 12 12 | 2 12 | 8 49 | 0 28 | 18 36 | 1 31 | 9 44 | 8 55 | 16 7 | 15 43 | 15 28 | | | n.a. |
| S 7 | 22 57 | 25 6 | 5 4 | 19 30 | 3 33 | 18 48 | 1 34 | 16 1 | 1 58 | 3 38 | 1 18 | 12 13 | 2 12 | 8 49 | 0 28 | 18 36 | 1 31 | 9 44 | 8 55 | 16 9 | 15 44 | 15 31 | | | n.a. |
| S 8 | 22 50 | 27 3 | 4 42 | 19 31 | 3 39 | 18 26 | 1 33 | 16 7 | 1 58 | 3 35 | 1 18 | 12 14 | 2 12 | 8 50 | 0 28 | 18 36 | 1 31 | 9 44 | 8 55 | 16 10 | 15 45 | 15 34 | | | n.a. |
| M 9 | 22 43 | 27 40 | 4 7 | 19 33 | 3 42 | 18 3 | 1 32 | 16 12 | 1 58 | 3 31 | 1 18 | 12 15 | 2 12 | 8 50 | 0 28 | 18 36 | 1 31 | 9 44 | 8 54 | 16 12 | 15 46 | 15 36 | | | n.a. |
| T 10 | 22 35 | 26 50 | 3 18 | 19 37 | 3 44 | 17 40 | 1 31 | 16 18 | 1 58 | 3 27 | 1 17 | 12 16 | 2 12 | 8 50 | 0 28 | 18 36 | 1 31 | 9 45 | 8 54 | 16 13 | 15 47 | 15 39 | | | n.a. |
| W11 | 22 27 | 24 32 | 2 19 | 19 43 | 3 42 | 17 16 | 1 30 | 16 24 | 1 59 | 3 23 | 1 17 | 12 18 | 2 13 | 8 50 | 0 28 | 18 35 | 1 31 | 9 45 | 8 54 | 16 14 | 15 48 | 15 42 | | | n.a. |
| T 12 | 22 19 | 20 52 | 1 11 | 19 49 | 3 39 | 16 52 | 1 29 | 16 29 | 1 59 | 3 19 | 1 17 | 12 19 | 2 13 | 8 50 | 0 28 | 18 35 | 1 31 | 9 45 | 8 54 | 16 15 | 15 49 | 15 45 | | | n.a. |
| F 13 | 22 10 | 16 3 | 0s 3 | 19 57 | 3 34 | 16 27 | 1 27 | 16 35 | 1 59 | 3 15 | 1 17 | 12 20 | 2 13 | 8 50 | 0 28 | 18 35 | 1 31 | 9 45 | 8 53 | 16 15 | 15 50 | 15 47 | | | n.a. |
| S 14 | 22 0 | 10 22 | 1 17 | 20 6 | 3 28 | 16 2 | 1 26 | 16 41 | 1 59 | 3 11 | 1 16 | 12 21 | 2 13 | 8 50 | 0 28 | 18 35 | 1 31 | 9 45 | 8 53 | 16 15 | 15 51 | 15 50 | | | n.a. |
| S 15 | 21 51 | 4 8 | 2 28 | 20 15 | 3 20 | 15 37 | 1 25 | 16 47 | 1 59 | 3 6 | 1 16 | 12 22 | 2 13 | 8 51 | 0 28 | 18 35 | 1 31 | 9 45 | 8 53 | 16 15 | 15 52 | 15 53 | | | n.a. |
| M16 | 21 41 | 2s21 | 3 31 | 20 25 | 3 11 | 15 11 | 1 23 | 16 54 | 1 59 | 3 2 | 1 16 | 12 22 | 2 13 | 8 51 | 0 28 | 18 35 | 1 30 | 9 45 | 8 53 | 16 14 | 15 53 | 15 55 | | | n.a. |
| T 17 | 21 30 | 8 46 | 4 21 | 20 35 | 3 1 | 14 44 | 1 21 | 17 0 | 1 59 | 2 58 | 1 16 | 12 23 | 2 14 | 8 51 | 0 28 | 18 34 | 1 30 | 9 45 | 8 53 | 16 14 | 15 54 | 15 58 | | | n.a. |
| W18 | 21 19 | 14 46 | 4 56 | 20 46 | 2 51 | 14 18 | 1 20 | 17 6 | 1 59 | 2 53 | 1 15 | 12 24 | 2 14 | 8 52 | 0 28 | 18 34 | 1 30 | 9 45 | 8 52 | 16 14 | 15 54 | 16 1 | | | n.a. |
| T 19 | 21 8 | 20 1 | 5 13 | 20 58 | 2 40 | 13 51 | 1 18 | 17 13 | 1 59 | 2 49 | 1 15 | 12 25 | 2 14 | 8 52 | 0 28 | 18 34 | 1 30 | 9 45 | 8 52 | 16 14 | 15 55 | 16 3 | | | n.a. |
| F 20 | 20 56 | 24 8 | 5 11 | 21 9 | 2 28 | 13 23 | 1 16 | 17 19 | 1 59 | 2 45 | 1 15 | 12 26 | 2 14 | 8 52 | 0 28 | 18 34 | 1 30 | 9 45 | 8 52 | 16 14 | 15 56 | 16 6 | | | n.a. |
| S 21 | 20 44 | 26 47 | 4 51 | 21 20 | 2 16 | 12 56 | 1 14 | 17 26 | 1 58 | 2 40 | 1 15 | 12 27 | 2 14 | 8 52 | 0 28 | 18 34 | 1 30 | 9 45 | 8 52 | 16 15 | 15 57 | 16 9 | | | n.a. |
| S 22 | 20 31 | 27 42 | 4 12 | 21 31 | 2 5 | 12 28 | 1 12 | 17 32 | 1 58 | 2 36 | 1 15 | 12 27 | 2 15 | 8 53 | 0 28 | 18 34 | 1 30 | 9 46 | 8 51 | 16 16 | 15 58 | 16 11 | | | n.a. |
| M23 | 20 18 | 26 51 | 3 19 | 21 42 | 1 53 | 11 59 | 1 10 | 17 39 | 1 58 | 2 31 | 1 14 | 12 28 | 2 15 | 8 53 | 0 28 | 18 34 | 1 30 | 9 46 | 8 51 | 16 16 | 15 59 | 16 14 | | | n.a. |
| T 24 | 20 5 | 24 21 | 2 15 | 21 53 | 1 41 | 11 31 | 1 8 | 17 46 | 1 58 | 2 27 | 1 14 | 12 29 | 2 15 | 8 54 | 0 28 | 18 34 | 1 30 | 9 46 | 8 51 | 16 17 | 16 0 | 16 17 | | | n.a. |
| W25 | 19 51 | 20 32 | 1 5 | 22 3 | 1 29 | 11 2 | 1 6 | 17 53 | 1 58 | 2 22 | 1 14 | 12 29 | 2 15 | 8 54 | 0 28 | 18 34 | 1 30 | 9 46 | 8 51 | 16 17 | 16 1 | 16 19 | | | n.a. |
| T 26 | 19 37 | 15 45 | 0n 8 | 22 13 | 1 17 | 10 32 | 1 4 | 18 0 | 1 58 | 2 17 | 1 14 | 12 30 | 2 15 | 8 55 | 0 28 | 18 34 | 1 30 | 9 46 | 8 51 | 16 17 | 16 2 | 16 22 | | | n.a. |
| F 27 | 19 23 | 10 22 | 1 18 | 22 22 | 1 6 | 10 3 | 1 2 | 18 6 | 1 58 | 2 13 | 1 14 | 12 31 | 2 15 | 8 55 | 0 28 | 18 34 | 1 30 | 9 46 | 8 50 | 16 17 | 16 3 | 16 25 | | | n.a. |
| S 28 | 19 8 | 4 41 | 2 23 | 22 31 | 0 54 | 9 33 | 0 59 | 18 13 | 1 58 | 2 8 | 1 13 | 12 31 | 2 16 | 8 55 | 0 28 | 18 34 | 1 30 | 9 47 | 8 50 | 16 17 | 16 4 | 16 27 | | | n.a. |
| S 29 | 18 53 | 1n 3 | 3 20 | 22 38 | 0 43 | 9 3 | 0 57 | 18 20 | 1 58 | 2 3 | 1 13 | 12 32 | 2 16 | 8 56 | 0 28 | 18 34 | 1 30 | 9 47 | 8 50 | 16 17 | 16 5 | 16 30 | | | n.a. |
| M30 | 18 38 | 6 38 | 4 8 | 22 45 | 0 32 | 8 33 | 0 54 | 18 27 | 1 58 | 1 58 | 1 13 | 12 32 | 2 16 | 8 56 | 0 28 | 18 33 | 1 30 | 9 47 | 8 50 | 16 16 | 16 6 | 16 33 | | | n.a. |
| T 31 | 18s22 | 11n54 | 4n43 | 22s51 | 0n22 | 8s 3 | 0s52 | 18n35 | 1n57 | 1s54 | 1s13 | 12s33 | 2n16 | 8n57 | 0s28 | 18n33 | 1s30 | 9n47 | 8s49 | 16s16 | 16s 7 | 16n35 | | | n.a. |

Julian Day Number = 1693298.5, Delta T = 03h09m21s
Ecliptic obliquity = 23°42'22, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°07'39, Lahiri = - 5°00'39 Julian Calendar 1 Jan. 77 BCE == Greg. Calendar 30 Dec. 078 BCE

The year -76 astronomical counting style corresponds to year 077 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 77 BCE
# geocentric

## FEBRUARY 77 BCE (-76) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 8 30 28 | 9♒22'32 | 0♉58 | 12♊19 | 12♓55 | 16♉ 3 | 28♓15 | 9♏ 9 | 23♈56 | 28°R21 | 21°R22 | 15♒50 | 16♒17 | 1♉ 7 | n.a. | W 1 |
| T 2 | 8 34 25 | 10°22'39 | 12°50 | 13°20 | 14° 7 | 16°27 | 28°27 | 9°11 | 23°57 | 28♉20 | 21♉22 | 15°R50 | 16°14 | 1°13 | n.a. | T 2 |
| F 3 | 8 38 21 | 11°22'45 | 24°47 | 14°23 | 15°20 | 16°52 | 28°38 | 9°13 | 23°58 | 28°20 | 21°22 | 15°50 | 16°10 | 1°20 | n.a. | F 3 |
| S 4 | 8 42 18 | 12°22'49 | 6♊53 | 15°29 | 16°33 | 17°17 | 28°50 | 9°14 | 24° 0 | 28°20 | 21°22 | 15°50 | 16° 7 | 1°27 | n.a. | S 4 |
| S 5 | 8 46 14 | 13°22'50 | 19°12 | 16°37 | 17°45 | 17°43 | 29° 2 | 9°16 | 24° 2 | 28°20 | 21°22 | 15°49 | 16° 4 | 1°33 | n.a. | S 5 |
| M 6 | 8 50 11 | 14°22'49 | 1♋48 | 17°47 | 18°57 | 18° 8 | 29°15 | 9°17 | 24° 3 | 28°19 | 21°22 | 15°49 | 16° 1 | 1°40 | n.a. | M 6 |
| T 7 | 8 54 8 | 15°22'46 | 14°42 | 18°59 | 20°10 | 18°34 | 29°27 | 9°19 | 24° 5 | 28°19 | 21°D22 | 15°D49 | 15°58 | 1°47 | n.a. | T 7 |
| W 8 | 8 58 4 | 16°22'41 | 27°57 | 20°13 | 21°22 | 19° 0 | 29°39 | 9°20 | 24° 7 | 28°19 | 21°22 | 15°49 | 15°54 | 1°54 | n.a. | W 8 |
| T 9 | 9 2 1 | 17°22'34 | 11♌32 | 21°29 | 22°34 | 19°27 | 29°51 | 9°21 | 24° 8 | 28°19 | 21°22 | 15°R49 | 15°51 | 2° 0 | n.a. | T 9 |
| F 10 | 9 5 57 | 18°22'24 | 25°26 | 22°46 | 23°46 | 19°53 | 0♈ 4 | 9°22 | 24°10 | 28°D19 | 21°22 | 15°49 | 15°48 | 2° 7 | n.a. | F 10 |
| S 11 | 9 9 54 | 19°22'13 | 9♍34 | 24° 5 | 24°58 | 20°20 | 0°16 | 9°23 | 24°12 | 28°19 | 21°22 | 15°49 | 15°45 | 2°14 | n.a. | S 11 |
| S 12 | 9 13 50 | 20°21'59 | 23°53 | 25°26 | 26°10 | 20°47 | 0°29 | 9°24 | 24°14 | 28°19 | 21°22 | 15°48 | 15°42 | 2°21 | n.a. | S 12 |
| M13 | 9 17 47 | 21°21'44 | 8♎17 | 26°48 | 27°22 | 21°14 | 0°41 | 9°24 | 24°16 | 28°19 | 21°23 | 15°48 | 15°39 | 2°27 | n.a. | M13 |
| T 14 | 9 21 43 | 22°21'26 | 22°43 | 28°12 | 28°33 | 21°42 | 0°54 | 9°25 | 24°18 | 28°19 | 21°23 | 15°47 | 15°35 | 2°34 | n.a. | T 14 |
| W15 | 9 25 40 | 23°21'07 | 7♏ 5 | 29°37 | 29°45 | 22° 9 | 1° 7 | 9°26 | 24°20 | 28°19 | 21°23 | 15°47 | 15°32 | 2°41 | n.a. | W15 |
| T 16 | 9 29 37 | 24°20'47 | 21°20 | 1♒ 4 | 0♈56 | 22°37 | 1°19 | 9°26 | 24°22 | 28°20 | 21°23 | 15°D46 | 15°29 | 2°47 | n.a. | T 16 |
| F 17 | 9 33 33 | 25°20'24 | 5♐25 | 2°32 | 2° 8 | 23° 5 | 1°32 | 9°26 | 24°24 | 28°20 | 21°23 | 15°46 | 15°26 | 2°54 | n.a. | F 17 |
| S 18 | 9 37 30 | 26°20'00 | 19°19 | 4° 1 | 3°19 | 23°33 | 1°45 | 9°27 | 24°26 | 28°20 | 21°23 | 15°47 | 15°23 | 3° 1 | n.a. | S 18 |
| S 19 | 9 41 26 | 27°19'34 | 3♑ 1 | 5°32 | 4°30 | 24° 1 | 1°58 | 9°27 | 24°28 | 28°20 | 21°24 | 15°48 | 15°20 | 3° 8 | n.a. | S 19 |
| M20 | 9 45 23 | 28°19'06 | 16°31 | 7° 4 | 5°42 | 24°29 | 2°11 | 9°R27 | 24°31 | 28°21 | 21°24 | 15°49 | 15°16 | 3°14 | n.a. | M20 |
| T 21 | 9 49 19 | 29°18'36 | 29°48 | 8°38 | 6°53 | 24°58 | 2°24 | 9°27 | 24°33 | 28°21 | 21°24 | 15°50 | 15°13 | 3°21 | n.a. | T 21 |
| W22 | 9 53 16 | 0♓18'04 | 12♒51 | 10°13 | 8° 4 | 25°27 | 2°37 | 9°27 | 24°35 | 28°21 | 21°25 | 15°R50 | 15°10 | 3°28 | n.a. | W22 |
| T 23 | 9 57 12 | 1°17'29 | 25°42 | 11°49 | 9°14 | 25°56 | 2°51 | 9°26 | 24°38 | 28°22 | 21°25 | 15°50 | 15° 7 | 3°34 | n.a. | T 23 |
| F 24 | 10 1 9 | 2°16'53 | 8♓20 | 13°26 | 10°25 | 26°25 | 3° 4 | 9°26 | 24°40 | 28°22 | 21°25 | 15°49 | 15° 4 | 3°41 | n.a. | F 24 |
| S 25 | 10 5 6 | 3°16'15 | 20°46 | 15° 5 | 11°36 | 26°54 | 3°17 | 9°25 | 24°42 | 28°23 | 21°26 | 15°47 | 15° 0 | 3°48 | n.a. | S 25 |
| S 26 | 10 9 2 | 4°15'34 | 3♈ 0 | 16°45 | 12°46 | 27°23 | 3°31 | 9°25 | 24°45 | 28°23 | 21°26 | 15°45 | 14°57 | 3°55 | n.a. | S 26 |
| M27 | 10 12 59 | 5°14'51 | 15° 5 | 18°26 | 13°57 | 27°53 | 3°44 | 9°24 | 24°47 | 28°24 | 21°27 | 15°41 | 14°54 | 4° 1 | n.a. | M27 |
| T 28 | 10 16 55 | 6°14'06 | 27° 2 | 20° 9 | 15° 7 | 28°23 | 3°58 | 9°23 | 24°50 | 28°24 | 21°27 | 15°38 | 14°51 | 4° 8 | n.a. | T 28 |
| W29 | 10 20 52 | 7♓13'18 | 8♉55 | 21♒53 | 16♈17 | 28♉52 | 4♈11 | 9♏23 | 24♈53 | 28♉25 | 21♉28 | 15♒35 | 14♒48 | 4♉15 | n.a. | W29 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 18s 6 | 16n42 | 5n 6 | 22s57 | 0n11 | 7s32 | 0s49 | 18n42 | 1n57 | 1s49 | 1s13 | 12s33 | 2n16 | 8n58 | 0s27 | 18n33 | 1s30 | 9n47 | 8s49 | 16s16 | 16s 8 | 16n38 | | n.a. |
| T 2 | 17 50 | 20 53 | 5 16 | 23 1 | 0 1 | 7 2 | 0 46 | 18 49 | 1 57 | 1 44 | 1 12 | 12 34 | 2 17 | 8 58 | 0 27 | 18 33 | 1 30 | 9 47 | 8 49 | 16 16 | 16 9 | 16 41 | | n.a. |
| F 3 | 17 33 | 24 14 | 5 13 | 23 4 | 0s 9 | 6 31 | 0 44 | 18 56 | 1 57 | 1 39 | 1 12 | 12 34 | 2 17 | 8 59 | 0 27 | 18 33 | 1 29 | 9 48 | 8 49 | 16 16 | 16 10 | 16 43 | | n.a. |
| S 4 | 17 17 | 26 33 | 4 56 | 23 6 | 0 18 | 6 0 | 0 41 | 19 3 | 1 57 | 1 34 | 1 12 | 12 34 | 2 17 | 8 59 | 0 27 | 18 33 | 1 29 | 9 48 | 8 48 | 16 16 | 16 11 | 16 46 | | n.a. |
| S 5 | 16 59 | 27 40 | 4 25 | 23 6 | 0 27 | 5 29 | 0 38 | 19 10 | 1 57 | 1 29 | 1 12 | 12 35 | 2 17 | 9 0 | 0 27 | 18 33 | 1 29 | 9 48 | 8 48 | 16 16 | 16 12 | 16 48 | | n.a. |
| M 6 | 16 42 | 27 22 | 3 41 | 23 6 | 0 36 | 4 57 | 0 35 | 19 17 | 1 57 | 1 24 | 1 12 | 12 35 | 2 17 | 9 1 | 0 27 | 18 33 | 1 29 | 9 48 | 8 48 | 16 16 | 16 13 | 16 51 | | n.a. |
| T 7 | 16 24 | 25 36 | 2 44 | 23 4 | 0 44 | 4 26 | 0 32 | 19 24 | 1 56 | 1 19 | 1 11 | 12 35 | 2 18 | 9 1 | 0 27 | 18 33 | 1 29 | 9 49 | 8 48 | 16 16 | 16 14 | 16 54 | | n.a. |
| W 8 | 16 6 | 22 24 | 1 37 | 23 2 | 0 52 | 3 54 | 0 29 | 19 32 | 1 56 | 1 14 | 1 11 | 12 35 | 2 18 | 9 2 | 0 27 | 18 34 | 1 29 | 9 49 | 8 47 | 16 16 | 16 15 | 16 56 | | n.a. |
| T 9 | 15 48 | 17 54 | 0 24 | 22 58 | 1 0 | 3 23 | 0 26 | 19 39 | 1 56 | 1 9 | 1 11 | 12 35 | 2 18 | 9 3 | 0 27 | 18 34 | 1 29 | 9 49 | 8 47 | 16 16 | 16 16 | 16 59 | | n.a. |
| F 10 | 15 29 | 12 21 | 0s53 | 22 52 | 1 8 | 2 51 | 0 23 | 19 46 | 1 56 | 1 3 | 1 11 | 12 36 | 2 18 | 9 3 | 0 27 | 18 34 | 1 29 | 9 49 | 8 47 | 16 16 | 16 17 | 17 1 | | n.a. |
| S 11 | 15 11 | 6 6 | 2 8 | 22 45 | 1 15 | 2 19 | 0 20 | 19 53 | 1 56 | 0 58 | 1 11 | 12 36 | 2 18 | 9 4 | 0 27 | 18 34 | 1 29 | 9 50 | 8 47 | 16 16 | 16 18 | 17 4 | | n.a. |
| S 12 | 14 52 | 0s32 | 3 16 | 22 37 | 1 21 | 1 48 | 0 17 | 20 0 | 1 55 | 0 53 | 1 11 | 12 36 | 2 19 | 9 5 | 0 27 | 18 34 | 1 29 | 9 50 | 8 47 | 16 17 | 16 19 | 17 6 | | n.a. |
| M13 | 14 32 | 7 10 | 4 12 | 22 28 | 1 27 | 1 16 | 0 13 | 20 7 | 1 55 | 0 48 | 1 10 | 12 36 | 2 19 | 9 5 | 0 27 | 18 34 | 1 29 | 9 50 | 8 46 | 16 17 | 16 19 | 17 9 | | n.a. |
| T 14 | 14 13 | 13 26 | 4 51 | 22 17 | 1 33 | 0 44 | 0 10 | 20 14 | 1 55 | 0 43 | 1 10 | 12 36 | 2 19 | 9 6 | 0 27 | 18 34 | 1 29 | 9 50 | 8 46 | 16 17 | 16 20 | 17 12 | | n.a. |
| W15 | 13 53 | 18 57 | 5 13 | 22 4 | 1 39 | 0 12 | 0 7 | 20 21 | 1 55 | 0 37 | 1 10 | 12 36 | 2 19 | 9 7 | 0 27 | 18 34 | 1 29 | 9 51 | 8 46 | 16 17 | 16 21 | 17 14 | | n.a. |
| T 16 | 13 33 | 23 21 | 5 15 | 21 50 | 1 44 | 0n20 | 0 3 | 20 28 | 1 55 | 0 32 | 1 10 | 12 36 | 2 19 | 9 8 | 0 27 | 18 34 | 1 29 | 9 51 | 8 46 | 16 17 | 16 22 | 17 17 | | n.a. |
| F 17 | 13 13 | 26 20 | 4 58 | 21 35 | 1 49 | 0 51 | 0n 0 | 20 35 | 1 54 | 0 27 | 1 10 | 12 36 | 2 19 | 9 9 | 0 27 | 18 34 | 1 29 | 9 51 | 8 45 | 16 17 | 16 23 | 17 19 | | n.a. |
| S 18 | 12 53 | 27 40 | 4 24 | 21 18 | 1 53 | 1 23 | 0 3 | 20 42 | 1 54 | 0 21 | 1 10 | 12 36 | 2 20 | 9 9 | 0 27 | 18 34 | 1 29 | 9 51 | 8 45 | 16 17 | 16 24 | 17 22 | | n.a. |
| S 19 | 12 32 | 27 16 | 3 35 | 20 59 | 1 57 | 1 55 | 0 7 | 20 49 | 1 54 | 0 16 | 1 9 | 12 35 | 2 20 | 9 10 | 0 27 | 18 34 | 1 29 | 9 52 | 8 45 | 16 17 | 16 25 | 17 24 | | n.a. |
| M20 | 12 11 | 25 14 | 2 35 | 20 39 | 2 1 | 2 27 | 0 10 | 20 56 | 1 54 | 0 11 | 1 9 | 12 35 | 2 20 | 9 11 | 0 27 | 18 35 | 1 28 | 9 52 | 8 45 | 16 16 | 16 26 | 17 27 | | n.a. |
| T 21 | 11 50 | 21 51 | 1 28 | 20 18 | 2 4 | 2 58 | 0 14 | 21 3 | 1 54 | 0 5 | 1 9 | 12 35 | 2 20 | 9 12 | 0 27 | 18 35 | 1 28 | 9 52 | 8 44 | 16 16 | 16 27 | 17 29 | | n.a. |
| W22 | 11 29 | 17 24 | 0 16 | 19 54 | 2 6 | 3 30 | 0 18 | 21 10 | 1 53 | 0n 0 | 1 9 | 12 35 | 2 20 | 9 13 | 0 27 | 18 35 | 1 28 | 9 53 | 8 44 | 16 16 | 16 28 | 17 32 | | n.a. |
| T 23 | 11 8 | 12 15 | 0n54 | 19 30 | 2 9 | 4 2 | 0 21 | 21 17 | 1 53 | 0 6 | 1 9 | 12 35 | 2 21 | 9 14 | 0 27 | 18 35 | 1 28 | 9 53 | 8 44 | 16 16 | 16 29 | 17 34 | | n.a. |
| F 24 | 10 47 | 6 40 | 2 1 | 19 3 | 2 11 | 4 33 | 0 25 | 21 24 | 1 53 | 0 11 | 1 9 | 12 34 | 2 21 | 9 15 | 0 27 | 18 35 | 1 28 | 9 53 | 8 44 | 16 16 | 16 30 | 17 37 | | n.a. |
| S 25 | 10 25 | 0 56 | 3 1 | 18 35 | 2 12 | 5 4 | 0 28 | 21 30 | 1 53 | 0 16 | 1 9 | 12 34 | 2 21 | 9 16 | 0 27 | 18 35 | 1 28 | 9 54 | 8 43 | 16 17 | 16 31 | 17 40 | | n.a. |
| S 26 | 10 3 | 4n44 | 3 51 | 18 6 | 2 13 | 5 36 | 0 32 | 21 37 | 1 52 | 0 22 | 1 9 | 12 34 | 2 21 | 9 17 | 0 27 | 18 35 | 1 28 | 9 54 | 8 43 | 16 18 | 16 32 | 17 42 | | n.a. |
| M27 | 9 41 | 10 9 | 4 31 | 17 35 | 2 13 | 6 7 | 0 36 | 21 44 | 1 52 | 0 27 | 1 8 | 12 33 | 2 21 | 9 17 | 0 27 | 18 36 | 1 28 | 9 54 | 8 43 | 16 19 | 16 33 | 17 45 | | n.a. |
| T 28 | 9 19 | 15 9 | 4 58 | 17 2 | 2 13 | 6 38 | 0 40 | 21 50 | 1 52 | 0 33 | 1 8 | 12 33 | 2 22 | 9 18 | 0 27 | 18 36 | 1 28 | 9 55 | 8 43 | 16 20 | 16 34 | 17 47 | | n.a. |
| W29 | 8s57 | 19n33 | 5n12 | 16s27 | 2s13 | 7n 8 | 0n43 | 21n57 | 1n52 | 0n38 | 1s 8 | 12s32 | 2n22 | 9n19 | 0s27 | 18n36 | 1s28 | 9n55 | 8s43 | 16s20 | 16s35 | 17n49 | | n.a. |

Julian Day Number = 1693329.5, Delta T = 03h09m20s
Ecliptic obliquity = 23°42'22, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°07'35, Lahiri = - 5°00'34 Julian Calendar 1 Feb. 77 BCE == Greg. Calendar 30 Jan. 077 BCE

The year -76 astronomical counting style corresponds to year 077 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 77 BCE
# geocentric

## MARCH 77 BCE (-76) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 10 24 48 | 8♓12'28 | 20♉47 | 23♒39 | 17♈27 | 29♉22 | 4♈25 | 9°R22 | 24♈55 | 28♉26 | 21♉28 | 15°R33 | 14♒45 | 4♉21 | n.a. | T 1 |
| F 2 | 10 28 45 | 9°11'36 | 2♊43 | 25°26 | 18°37 | 29°52 | 4°38 | 9♏21 | 24°58 | 28°26 | 21°29 | 15♒32 | 14°41 | 4°28 | n.a. | F 2 |
| S 3 | 10 32 41 | 10°10'41 | 14°46 | 27°14 | 19°47 | 0♊23 | 4°52 | 9°19 | 25° 0 | 28°27 | 21°29 | 15°D32 | 14°38 | 4°35 | n.a. | S 3 |
| S 4 | 10 36 38 | 11° 9'44 | 27° 3 | 29° 4 | 20°57 | 0°53 | 5° 5 | 9°18 | 25° 3 | 28°28 | 21°30 | 15°33 | 14°35 | 4°42 | n.a. | S 4 |
| M 5 | 10 40 34 | 12° 8'45 | 9♋37 | 0♓55 | 22° 6 | 1°23 | 5°19 | 9°17 | 25° 6 | 28°28 | 21°30 | 15°34 | 14°32 | 4°48 | n.a. | M 5 |
| T 6 | 10 44 31 | 13° 7'43 | 22°32 | 2°47 | 23°16 | 1°54 | 5°33 | 9°15 | 25° 9 | 28°29 | 21°31 | 15°36 | 14°29 | 4°55 | n.a. | T 6 |
| W 7 | 10 48 28 | 14° 6'39 | 5♌51 | 4°41 | 24°25 | 2°25 | 5°47 | 9°14 | 25°11 | 28°30 | 21°31 | 15°37 | 14°26 | 5° 2 | n.a. | W 7 |
| T 8 | 10 52 24 | 15° 5'33 | 19°36 | 6°36 | 25°34 | 2°56 | 6° 0 | 9°12 | 25°14 | 28°31 | 21°32 | 15°R37 | 14°22 | 5° 9 | n.a. | T 8 |
| F 9 | 10 56 21 | 16° 4'24 | 3♍45 | 8°33 | 26°43 | 3°26 | 6°14 | 9°11 | 25°17 | 28°32 | 21°33 | 15°36 | 14°19 | 5°15 | n.a. | F 9 |
| S 10 | 11 0 17 | 17° 3'13 | 18°15 | 10°31 | 27°52 | 3°57 | 6°28 | 9° 9 | 25°20 | 28°33 | 21°33 | 15°34 | 14°16 | 5°22 | n.a. | S 10 |
| S 11 | 11 4 14 | 18° 2'00 | 3♎ 1 | 12°31 | 29° 1 | 4°29 | 6°42 | 9° 7 | 25°23 | 28°34 | 21°34 | 15°30 | 14°13 | 5°29 | n.a. | S 11 |
| M12 | 11 8 10 | 19° 0'45 | 17°54 | 14°31 | 0♉ 9 | 5° 0 | 6°56 | 9° 5 | 25°26 | 28°35 | 21°35 | 15°25 | 14°10 | 5°35 | n.a. | M12 |
| T 13 | 11 12 7 | 19°59'28 | 2♏46 | 16°33 | 1°18 | 5°31 | 7°10 | 9° 3 | 25°29 | 28°36 | 21°36 | 15°20 | 14° 6 | 5°42 | n.a. | T 13 |
| W14 | 11 16 3 | 20°58'09 | 17°29 | 18°37 | 2°26 | 6° 3 | 7°24 | 9° 1 | 25°32 | 28°37 | 21°36 | 15°16 | 14° 3 | 5°49 | n.a. | W14 |
| T 15 | 11 20 0 | 21°56'48 | 1♐58 | 20°41 | 3°34 | 6°34 | 7°38 | 8°58 | 25°35 | 28°38 | 21°37 | 15°13 | 14° 0 | 5°56 | n.a. | T 15 |
| F 16 | 11 23 57 | 22°55'26 | 16° 8 | 22°46 | 4°42 | 7° 6 | 7°52 | 8°56 | 25°38 | 28°39 | 21°38 | 15°11 | 13°57 | 6° 2 | n.a. | F 16 |
| S 17 | 11 27 53 | 23°54'02 | 29°58 | 24°52 | 5°50 | 7°38 | 8° 6 | 8°54 | 25°41 | 28°40 | 21°39 | 15°D11 | 13°54 | 6° 9 | n.a. | S 17 |
| S 18 | 11 31 50 | 24°52'37 | 13♑29 | 26°58 | 6°57 | 8°10 | 8°20 | 8°51 | 25°44 | 28°41 | 21°40 | 15°12 | 13°51 | 6°16 | n.a. | S 18 |
| M19 | 11 35 46 | 25°51'09 | 26°41 | 29° 5 | 8° 5 | 8°42 | 8°34 | 8°49 | 25°47 | 28°43 | 21°40 | 15°13 | 13°47 | 6°22 | n.a. | M19 |
| T 20 | 11 39 43 | 26°49'40 | 9♒38 | 1♈12 | 9°12 | 9°14 | 8°48 | 8°46 | 25°50 | 28°44 | 21°41 | 15°R15 | 13°44 | 6°29 | n.a. | T 20 |
| W21 | 11 43 39 | 27°48'09 | 22°21 | 3°20 | 10°19 | 9°46 | 9° 2 | 8°43 | 25°53 | 28°45 | 21°42 | 15°14 | 13°41 | 6°36 | n.a. | W21 |
| T 22 | 11 47 36 | 28°46'36 | 4♓52 | 5°26 | 11°26 | 10°18 | 9°17 | 8°40 | 25°57 | 28°46 | 21°43 | 15°13 | 13°38 | 6°43 | n.a. | T 22 |
| F 23 | 11 51 32 | 29°45'02 | 17°13 | 7°32 | 12°33 | 10°50 | 9°31 | 8°38 | 26° 0 | 28°48 | 21°44 | 15° 8 | 13°35 | 6°49 | n.a. | F 23 |
| S 24 | 11 55 29 | 0♈43'25 | 29°26 | 9°38 | 13°39 | 11°23 | 9°45 | 8°35 | 26° 3 | 28°49 | 21°45 | 15° 2 | 13°31 | 6°56 | n.a. | S 24 |
| S 25 | 11 59 25 | 1°41'46 | 11♈31 | 11°41 | 14°45 | 11°55 | 9°59 | 8°32 | 26° 6 | 28°50 | 21°46 | 14°54 | 13°28 | 7° 3 | n.a. | S 25 |
| M26 | 12 3 22 | 2°40'06 | 23°30 | 13°44 | 15°52 | 12°28 | 10°13 | 8°28 | 26° 9 | 28°52 | 21°47 | 14°45 | 13°25 | 7°10 | n.a. | M26 |
| T 27 | 12 7 19 | 3°38'24 | 5♉24 | 15°44 | 16°58 | 13° 0 | 10°28 | 8°25 | 26°13 | 28°53 | 21°48 | 14°36 | 13°22 | 7°16 | n.a. | T 27 |
| W28 | 12 11 15 | 4°36'39 | 17°16 | 17°42 | 18° 3 | 13°33 | 10°42 | 8°22 | 26°16 | 28°55 | 21°49 | 14°27 | 13°19 | 7°23 | n.a. | W28 |
| T 29 | 12 15 12 | 5°34'53 | 29° 8 | 19°38 | 19° 9 | 14° 6 | 10°56 | 8°19 | 26°19 | 28°56 | 21°50 | 14°20 | 13°16 | 7°30 | n.a. | T 29 |
| F 30 | 12 19 8 | 6°33'04 | 11♊ 3 | 21°31 | 20°14 | 14°39 | 11°10 | 8°15 | 26°23 | 28°58 | 21°51 | 14°15 | 13°12 | 7°36 | n.a. | F 30 |
| S 31 | 12 23 5 | 7♈31'14 | 23♊ 5 | 23♈21 | 21♉19 | 15♊12 | 11♈25 | 8♏12 | 26♈26 | 28♉59 | 21♉52 | 14♒11 | 13♒ 9 | 7♉43 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| T 1 | 8s35 | 23n10 | 5n13 | 15s51 | 2s12 | 7n39 | 0n47 | 22n 3 | 1n51 | 0n44 | 1s 8 | 12s32 | 2n22 | 9n20 | 0s27 | 18n36 | 1s28 | 9n55 | 8s42 | 16s21 | 16s36 | 17n52 | | | n.a. |
| F 2 | 8 13 | 25 50 | 5 0 | 15 14 | 2 10 | 8 9 | 0 51 | 22 9 | 1 51 | 0 50 | 1 8 | 12 31 | 2 22 | 9 21 | 0 27 | 18 36 | 1 28 | 9 56 | 8 42 | 16 21 | 16 36 | 17 54 | | | n.a. |
| S 3 | 7 50 | 27 22 | 4 34 | 14 34 | 2 8 | 8 40 | 0 54 | 22 16 | 1 51 | 0 55 | 1 8 | 12 31 | 2 22 | 9 22 | 0 27 | 18 37 | 1 28 | 9 56 | 8 42 | 16 21 | 16 37 | 17 57 | | | n.a. |
| S 4 | 7 28 | 27 36 | 3 56 | 13 53 | 2 6 | 9 10 | 0 58 | 22 22 | 1 51 | 1 1 | 1 8 | 12 30 | 2 22 | 9 23 | 0 27 | 18 37 | 1 28 | 9 56 | 8 42 | 16 21 | 16 38 | 17 59 | | | n.a. |
| M 5 | 7 5 | 26 25 | 3 5 | 13 11 | 2 3 | 9 40 | 1 2 | 22 28 | 1 50 | 1 6 | 1 8 | 12 30 | 2 23 | 9 24 | 0 27 | 18 37 | 1 28 | 9 57 | 8 41 | 16 21 | 16 39 | 18 2 | | | n.a. |
| T 6 | 6 42 | 23 49 | 2 3 | 12 27 | 1 59 | 10 9 | 1 6 | 22 34 | 1 50 | 1 12 | 1 7 | 12 29 | 2 23 | 9 25 | 0 27 | 18 37 | 1 28 | 9 57 | 8 41 | 16 20 | 16 40 | 18 4 | | | n.a. |
| W 7 | 6 19 | 19 53 | 0 53 | 11 41 | 1 55 | 10 39 | 1 10 | 22 40 | 1 50 | 1 18 | 1 7 | 12 28 | 2 23 | 9 27 | 0 27 | 18 38 | 1 28 | 9 57 | 8 41 | 16 20 | 16 41 | 18 7 | | | n.a. |
| T 8 | 5 56 | 14 46 | 0s22 | 10 53 | 1 50 | 11 8 | 1 13 | 22 46 | 1 49 | 1 23 | 1 7 | 12 28 | 2 23 | 9 28 | 0 27 | 18 38 | 1 27 | 9 58 | 8 41 | 16 20 | 16 42 | 18 9 | | | n.a. |
| F 9 | 5 33 | 8 44 | 1 38 | 10 5 | 1 45 | 11 37 | 1 17 | 22 52 | 1 49 | 1 29 | 1 7 | 12 27 | 2 23 | 9 29 | 0 27 | 18 38 | 1 27 | 9 58 | 8 41 | 16 20 | 16 43 | 18 12 | | | n.a. |
| S 10 | 5 10 | 2 6 | 2 49 | 9 14 | 1 39 | 12 5 | 1 21 | 22 57 | 1 49 | 1 34 | 1 7 | 12 26 | 2 23 | 9 30 | 0 26 | 18 38 | 1 27 | 9 59 | 8 40 | 16 21 | 16 44 | 18 14 | | | n.a. |
| S 11 | 4 47 | 4s43 | 3 50 | 8 22 | 1 33 | 12 33 | 1 24 | 23 3 | 1 49 | 1 40 | 1 7 | 12 26 | 2 24 | 9 31 | 0 26 | 18 39 | 1 27 | 9 59 | 8 40 | 16 22 | 16 45 | 18 17 | | | n.a. |
| M12 | 4 24 | 11 20 | 4 36 | 7 29 | 1 26 | 13 2 | 1 28 | 23 9 | 1 48 | 1 46 | 1 7 | 12 25 | 2 24 | 9 32 | 0 26 | 18 39 | 1 27 | 9 59 | 8 40 | 16 24 | 16 46 | 18 19 | | | n.a. |
| T 13 | 4 0 | 17 18 | 5 4 | 6 35 | 1 19 | 13 29 | 1 32 | 23 14 | 1 48 | 1 51 | 1 7 | 12 24 | 2 24 | 9 33 | 0 26 | 18 39 | 1 27 | 10 0 | 8 40 | 16 25 | 16 47 | 18 21 | | | n.a. |
| W14 | 3 37 | 22 12 | 5 11 | 5 39 | 1 11 | 13 57 | 1 36 | 23 19 | 1 48 | 1 57 | 1 7 | 12 23 | 2 24 | 9 34 | 0 26 | 18 39 | 1 27 | 10 0 | 8 39 | 16 26 | 16 48 | 18 24 | | | n.a. |
| T 15 | 3 14 | 25 39 | 4 58 | 4 42 | 1 3 | 14 24 | 1 39 | 23 25 | 1 47 | 2 3 | 1 7 | 12 22 | 2 24 | 9 35 | 0 26 | 18 40 | 1 27 | 10 1 | 8 39 | 16 27 | 16 49 | 18 26 | | | n.a. |
| F 16 | 2 50 | 27 24 | 4 27 | 3 44 | 0 54 | 14 51 | 1 43 | 23 30 | 1 47 | 2 8 | 1 6 | 12 21 | 2 24 | 9 36 | 0 26 | 18 40 | 1 27 | 10 1 | 8 39 | 16 28 | 16 50 | 18 29 | | | n.a. |
| S 17 | 2 27 | 27 24 | 3 41 | 2 45 | 0 45 | 15 17 | 1 46 | 23 35 | 1 47 | 2 14 | 1 6 | 12 21 | 2 25 | 9 38 | 0 26 | 18 40 | 1 27 | 10 1 | 8 39 | 16 28 | 16 50 | 18 31 | | | n.a. |
| S 18 | 2 3 | 25 44 | 2 44 | 1 45 | 0 35 | 15 43 | 1 50 | 23 40 | 1 47 | 2 20 | 1 6 | 12 20 | 2 25 | 9 39 | 0 26 | 18 41 | 1 27 | 10 2 | 8 39 | 16 27 | 16 51 | 18 33 | | | n.a. |
| M19 | 1 40 | 22 40 | 1 39 | 0 45 | 0 25 | 16 9 | 1 54 | 23 45 | 1 46 | 2 25 | 1 6 | 12 19 | 2 25 | 9 40 | 0 26 | 18 41 | 1 27 | 10 2 | 8 38 | 16 27 | 16 52 | 18 36 | | | n.a. |
| T 20 | 1 16 | 18 32 | 0 30 | 0n16 | 0 15 | 16 34 | 1 57 | 23 50 | 1 46 | 2 31 | 1 6 | 12 18 | 2 25 | 9 41 | 0 26 | 18 41 | 1 27 | 10 3 | 8 38 | 16 27 | 16 53 | 18 38 | | | n.a. |
| W21 | 0 53 | 13 37 | 0n38 | 1 16 | 0 4 | 16 59 | 2 1 | 23 54 | 1 46 | 2 37 | 1 6 | 12 17 | 2 25 | 9 42 | 0 26 | 18 42 | 1 27 | 10 3 | 8 38 | 16 27 | 16 54 | 18 41 | | | n.a. |
| T 22 | 0 30 | 8 13 | 1 44 | 2 17 | 0n 7 | 17 23 | 2 4 | 23 59 | 1 45 | 2 42 | 1 6 | 12 16 | 2 25 | 9 43 | 0 26 | 18 42 | 1 27 | 10 3 | 8 38 | 16 27 | 16 55 | 18 43 | | | n.a. |
| F 23 | 0 6 | 2 35 | 2 44 | 3 18 | 0 18 | 17 48 | 2 7 | 24 3 | 1 45 | 2 48 | 1 6 | 12 15 | 2 25 | 9 45 | 0 26 | 18 42 | 1 27 | 10 4 | 8 38 | 16 28 | 16 56 | 18 45 | | | n.a. |
| S 24 | 0n17 | 3n 3 | 3 35 | 4 18 | 0 29 | 18 11 | 2 11 | 24 8 | 1 45 | 2 54 | 1 6 | 12 14 | 2 25 | 9 46 | 0 26 | 18 43 | 1 27 | 10 4 | 8 37 | 16 30 | 16 57 | 18 48 | | | n.a. |
| S 25 | 0 41 | 8 32 | 4 16 | 5 17 | 0 40 | 18 35 | 2 14 | 24 12 | 1 45 | 3 0 | 1 6 | 12 12 | 2 26 | 9 47 | 0 26 | 18 43 | 1 27 | 10 5 | 8 37 | 16 33 | 16 58 | 18 50 | | | n.a. |
| M26 | 1 4 | 13 38 | 4 46 | 6 15 | 0 51 | 18 57 | 2 17 | 24 16 | 1 44 | 3 5 | 1 6 | 12 11 | 2 26 | 9 48 | 0 26 | 18 43 | 1 27 | 10 5 | 8 37 | 16 35 | 16 59 | 18 53 | | | n.a. |
| T 27 | 1 28 | 18 12 | 5 2 | 7 12 | 1 2 | 19 20 | 2 21 | 24 20 | 1 44 | 3 11 | 1 6 | 12 10 | 2 26 | 9 49 | 0 26 | 18 44 | 1 27 | 10 6 | 8 37 | 16 38 | 17 0 | 18 55 | | | n.a. |
| W28 | 1 51 | 22 3 | 5 6 | 8 8 | 1 12 | 19 42 | 2 24 | 24 24 | 1 44 | 3 17 | 1 6 | 12 9 | 2 26 | 9 51 | 0 26 | 18 44 | 1 26 | 10 6 | 8 37 | 16 41 | 17 1 | 18 57 | | | n.a. |
| T 29 | 2 14 | 25 0 | 4 56 | 9 2 | 1 22 | 20 3 | 2 27 | 24 27 | 1 43 | 3 22 | 1 5 | 12 8 | 2 26 | 9 52 | 0 26 | 18 44 | 1 26 | 10 6 | 8 37 | 16 43 | 17 2 | 19 0 | | | n.a. |
| F 30 | 2 38 | 26 52 | 4 34 | 9 54 | 1 32 | 20 24 | 2 30 | 24 31 | 1 43 | 3 28 | 1 5 | 12 7 | 2 26 | 9 53 | 0 26 | 18 45 | 1 26 | 10 7 | 8 36 | 16 44 | 17 2 | 19 2 | | | n.a. |
| S 31 | 3n 1 | 27n30 | 3n59 | 10n45 | 1n42 | 20n45 | 2n33 | 24n35 | 1n43 | 3n34 | 1s 5 | 12s 6 | 2n26 | 9n54 | 0s26 | 18n45 | 1s26 | 10n 7 | 8s36 | 16s45 | 17s 3 | 19n 4 | | | n.a. |

Julian Day Number = 1693358.5, Delta T = 03h09m19s
Ecliptic obliquity = 23°42'23, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°07'31, Lahiri = - 5°00'30 Julian Calendar 1 March 77 BCE == Greg. Calendar 28 Feb. 077 BCE

The year -76 astronomical counting style corresponds to year 077 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 77 BCE
# geocentric

## APRIL 77 BCE (-76) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 27 1 | 8♈29'21 | 5♋18 | 25♈ 8 | 22♉24 | 15♊45 | 11♈39 | 8°R 8 | 26♈29 | 29♉ 1 | 21♉53 | 14°D10 | 13♒ 6 | 7♉50 | n.a. | S 1 |
| M 2 | 12 30 58 | 9°27'27 | 17°48 | 26°51 | 23°28 | 16°18 | 11°53 | 8♏ 5 | 26°33 | 29° 2 | 21°54 | 14♒10 | 13° 3 | 7°57 | n.a. | M 2 |
| T 3 | 12 34 54 | 10°25'30 | 0♌38 | 28°31 | 24°33 | 16°51 | 12° 7 | 8° 1 | 26°36 | 29° 4 | 21°55 | 14°11 | 13° 0 | 8° 3 | n.a. | T 3 |
| W 4 | 12 38 51 | 11°23'31 | 13°54 | 0♉ 8 | 25°37 | 17°25 | 12°22 | 7°58 | 26°39 | 29° 5 | 21°56 | 14°R12 | 12°57 | 8°10 | n.a. | W 4 |
| T 5 | 12 42 48 | 12°21'31 | 27°38 | 1°40 | 26°41 | 17°58 | 12°36 | 7°54 | 26°43 | 29° 7 | 21°57 | 14°11 | 12°53 | 8°17 | n.a. | T 5 |
| F 6 | 12 46 44 | 13°19'28 | 11♍50 | 3° 9 | 27°44 | 18°31 | 12°50 | 7°50 | 26°46 | 29° 9 | 21°58 | 14° 8 | 12°50 | 8°24 | n.a. | F 6 |
| S 7 | 12 50 41 | 14°17'23 | 26°29 | 4°33 | 28°47 | 19° 5 | 13° 4 | 7°46 | 26°50 | 29°10 | 22° 0 | 14° 3 | 12°47 | 8°30 | n.a. | S 7 |
| S 8 | 12 54 37 | 15°15'17 | 11♎29 | 5°54 | 29°50 | 19°38 | 13°19 | 7°42 | 26°53 | 29°12 | 22° 1 | 13°56 | 12°44 | 8°37 | n.a. | S 8 |
| M 9 | 12 58 34 | 16°13'09 | 26°41 | 7°10 | 0♊53 | 20°12 | 13°33 | 7°38 | 26°56 | 29°14 | 22° 2 | 13°47 | 12°41 | 8°44 | n.a. | M 9 |
| T 10 | 13 2 30 | 17°11'00 | 11♏54 | 8°22 | 1°55 | 20°46 | 13°47 | 7°34 | 27° 0 | 29°16 | 22° 3 | 13°38 | 12°37 | 8°50 | n.a. | T 10 |
| W11 | 13 6 27 | 18° 8'49 | 26°58 | 9°30 | 2°57 | 21°19 | 14° 1 | 7°30 | 27° 3 | 29°17 | 22° 4 | 13°29 | 12°34 | 8°57 | n.a. | W11 |
| T 12 | 13 10 23 | 19° 6'36 | 11♐45 | 10°34 | 3°59 | 21°53 | 14°15 | 7°26 | 27° 7 | 29°19 | 22° 5 | 13°22 | 12°31 | 9° 4 | n.a. | T 12 |
| F 13 | 13 14 20 | 20° 4'23 | 26° 7 | 11°33 | 5° 0 | 22°27 | 14°30 | 7°22 | 27°10 | 29°21 | 22° 7 | 13°18 | 12°28 | 9°11 | n.a. | F 13 |
| S 14 | 13 18 17 | 21° 2'08 | 10♑ 3 | 12°28 | 6° 1 | 23° 1 | 14°44 | 7°18 | 27°14 | 29°23 | 22° 8 | 13°16 | 12°25 | 9°17 | n.a. | S 14 |
| S 15 | 13 22 13 | 21°59'52 | 23°34 | 13°19 | 7° 2 | 23°35 | 14°58 | 7°14 | 27°17 | 29°25 | 22° 9 | 13°D15 | 12°22 | 9°24 | n.a. | S 15 |
| M16 | 13 26 10 | 22°57'35 | 6♒41 | 14° 5 | 8° 3 | 24° 9 | 15°12 | 7°10 | 27°21 | 29°26 | 22°10 | 13°R16 | 12°18 | 9°31 | n.a. | M16 |
| T 17 | 13 30 6 | 23°55'17 | 19°28 | 14°46 | 9° 3 | 24°43 | 15°26 | 7° 6 | 27°24 | 29°28 | 22°12 | 13°16 | 12°15 | 9°37 | n.a. | T 17 |
| W18 | 13 34 3 | 24°52'57 | 1♓58 | 15°22 | 10° 2 | 25°17 | 15°40 | 7° 1 | 27°28 | 29°30 | 22°13 | 13°14 | 12°12 | 9°44 | n.a. | W18 |
| T 19 | 13 37 59 | 25°50'37 | 14°16 | 15°54 | 11° 2 | 25°51 | 15°55 | 6°57 | 27°31 | 29°32 | 22°14 | 13°10 | 12° 9 | 9°51 | n.a. | T 19 |
| F 20 | 13 41 56 | 26°48'15 | 26°25 | 16°21 | 12° 0 | 26°26 | 16° 9 | 6°53 | 27°35 | 29°34 | 22°15 | 13° 4 | 12° 6 | 9°58 | n.a. | F 20 |
| S 21 | 13 45 52 | 27°45'51 | 8♈27 | 16°44 | 12°59 | 27° 0 | 16°23 | 6°48 | 27°38 | 29°36 | 22°17 | 12°55 | 12° 2 | 10° 4 | n.a. | S 21 |
| S 22 | 13 49 49 | 28°43'27 | 20°24 | 17° 1 | 13°57 | 27°34 | 16°37 | 6°44 | 27°42 | 29°38 | 22°18 | 12°43 | 11°59 | 10°11 | n.a. | S 22 |
| M23 | 13 53 46 | 29°41'01 | 2♉18 | 17°14 | 14°55 | 28° 9 | 16°51 | 6°40 | 27°45 | 29°40 | 22°19 | 12°30 | 11°56 | 10°18 | n.a. | M23 |
| T 24 | 13 57 42 | 0♉38'35 | 14°11 | 17°21 | 15°52 | 28°43 | 17° 5 | 6°35 | 27°49 | 29°42 | 22°21 | 12°16 | 11°53 | 10°25 | n.a. | T 24 |
| W25 | 14 1 39 | 1°36'06 | 26° 2 | 17°R24 | 16°48 | 29°18 | 17°19 | 6°31 | 27°52 | 29°44 | 22°22 | 12° 3 | 11°50 | 10°31 | n.a. | W25 |
| T 26 | 14 5 35 | 2°33'37 | 7♊55 | 17°23 | 17°45 | 29°53 | 17°33 | 6°26 | 27°56 | 29°46 | 22°23 | 11°52 | 11°47 | 10°38 | n.a. | T 26 |
| F 27 | 14 9 32 | 3°31'06 | 19°52 | 17°17 | 18°40 | 0♋27 | 17°47 | 6°22 | 27°59 | 29°48 | 22°25 | 11°43 | 11°43 | 10°45 | n.a. | F 27 |
| S 28 | 14 13 28 | 4°28'34 | 1♋56 | 17° 6 | 19°36 | 1° 2 | 18° 1 | 6°18 | 28° 2 | 29°50 | 22°26 | 11°37 | 11°40 | 10°51 | n.a. | S 28 |
| S 29 | 14 17 25 | 5°26'01 | 14° 9 | 16°52 | 20°30 | 1°37 | 18°15 | 6°13 | 28° 6 | 29°52 | 22°27 | 11°33 | 11°37 | 10°58 | n.a. | S 29 |
| M30 | 14 21 21 | 6♉23'26 | 26♋37 | 16♉34 | 21♊24 | 2♋12 | 18♈29 | 6♏ 9 | 28♈ 9 | 29♉54 | 22♉29 | 11♒32 | 11♒34 | 11♉ 5 | n.a. | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 3n24 | 26n49 | 3n13 | 11n33 | 1n51 | 21n 5 | 2n36 | 24n38 | 1n42 | 3n39 | 1s 5 | 12s 4 | 2n26 | 9n56 | 0s26 | 18n45 | 1s26 | 10n 8 | 8s36 | 16s46 | 17s 4 | 19n 7 | | n.a. |
| M 2 | 3 47 | 24 46 | 2 17 | 12 19 | 1 59 | 21 24 | 2 39 | 24 41 | 1 42 | 3 45 | 1 5 | 12 3 | 2 26 | 9 57 | 0 26 | 18 46 | 1 26 | 10 8 | 8 36 | 16 46 | 17 5 | 19 9 | | n.a. |
| T 3 | 4 10 | 21 25 | 1 12 | 13 2 | 2 7 | 21 43 | 2 41 | 24 44 | 1 42 | 3 51 | 1 5 | 12 2 | 2 26 | 9 58 | 0 26 | 18 46 | 1 26 | 10 9 | 8 36 | 16 45 | 17 6 | 19 11 | | n.a. |
| W 4 | 4 33 | 16 52 | 0 2 | 13 44 | 2 14 | 22 2 | 2 44 | 24 47 | 1 41 | 3 56 | 1 5 | 12 1 | 2 27 | 9 59 | 0 26 | 18 47 | 1 26 | 10 9 | 8 35 | 16 45 | 17 7 | 19 14 | | n.a. |
| T 5 | 4 56 | 11 19 | 1s11 | 14 22 | 2 20 | 22 20 | 2 47 | 24 50 | 1 41 | 4 2 | 1 5 | 11 59 | 2 27 | 10 1 | 0 26 | 18 47 | 1 26 | 10 9 | 8 35 | 16 45 | 17 8 | 19 16 | | n.a. |
| F 6 | 5 19 | 5 1 | 2 22 | 14 59 | 2 26 | 22 37 | 2 49 | 24 53 | 1 41 | 4 8 | 1 5 | 11 58 | 2 27 | 10 2 | 0 26 | 18 47 | 1 26 | 10 10 | 8 35 | 16 46 | 17 9 | 19 18 | | n.a. |
| S 7 | 5 42 | 1s44 | 3 26 | 15 32 | 2 30 | 22 54 | 2 51 | 24 55 | 1 41 | 4 13 | 1 5 | 11 57 | 2 27 | 10 3 | 0 26 | 18 48 | 1 26 | 10 10 | 8 35 | 16 48 | 17 10 | 19 20 | | n.a. |
| S 8 | 6 4 | 8 31 | 4 17 | 16 3 | 2 34 | 23 10 | 2 54 | 24 58 | 1 40 | 4 19 | 1 5 | 11 55 | 2 27 | 10 4 | 0 26 | 18 48 | 1 26 | 10 11 | 8 35 | 16 50 | 17 11 | 19 23 | | n.a. |
| M 9 | 6 27 | 14 54 | 4 50 | 16 32 | 2 38 | 23 26 | 2 56 | 25 0 | 1 40 | 4 25 | 1 5 | 11 54 | 2 27 | 10 6 | 0 26 | 18 49 | 1 26 | 10 11 | 8 35 | 16 52 | 17 12 | 19 25 | | n.a. |
| T 10 | 6 49 | 20 22 | 5 3 | 16 58 | 2 40 | 23 41 | 2 58 | 25 2 | 1 40 | 4 30 | 1 5 | 11 53 | 2 27 | 10 7 | 0 26 | 18 49 | 1 26 | 10 12 | 8 35 | 16 55 | 17 12 | 19 27 | | n.a. |
| W11 | 7 12 | 24 29 | 4 55 | 17 22 | 2 41 | 23 56 | 3 0 | 25 4 | 1 39 | 4 36 | 1 5 | 11 51 | 2 27 | 10 8 | 0 26 | 18 50 | 1 26 | 10 12 | 8 34 | 16 58 | 17 13 | 19 30 | | n.a. |
| T 12 | 7 34 | 26 51 | 4 27 | 17 42 | 2 41 | 24 10 | 3 2 | 25 6 | 1 39 | 4 41 | 1 5 | 11 50 | 2 27 | 10 9 | 0 26 | 18 50 | 1 26 | 10 12 | 8 34 | 17 0 | 17 14 | 19 32 | | n.a. |
| F 13 | 7 56 | 27 22 | 3 43 | 18 1 | 2 41 | 24 23 | 3 4 | 25 8 | 1 39 | 4 47 | 1 5 | 11 49 | 2 27 | 10 11 | 0 26 | 18 50 | 1 26 | 10 13 | 8 34 | 17 1 | 17 15 | 19 34 | | n.a. |
| S 14 | 8 18 | 26 6 | 2 47 | 18 17 | 2 39 | 24 36 | 3 6 | 25 9 | 1 38 | 4 52 | 1 5 | 11 47 | 2 27 | 10 12 | 0 26 | 18 51 | 1 26 | 10 13 | 8 34 | 17 1 | 17 16 | 19 36 | | n.a. |
| S 15 | 8 40 | 23 19 | 1 43 | 18 30 | 2 37 | 24 48 | 3 8 | 25 11 | 1 38 | 4 58 | 1 5 | 11 46 | 2 27 | 10 13 | 0 26 | 18 51 | 1 26 | 10 14 | 8 34 | 17 2 | 17 17 | 19 39 | | n.a. |
| M16 | 9 1 | 19 22 | 0 35 | 18 41 | 2 33 | 25 0 | 3 9 | 25 12 | 1 38 | 5 4 | 1 5 | 11 44 | 2 27 | 10 14 | 0 26 | 18 52 | 1 26 | 10 14 | 8 34 | 17 1 | 17 18 | 19 41 | | n.a. |
| T 17 | 9 23 | 14 38 | 0n33 | 18 49 | 2 29 | 25 11 | 3 11 | 25 13 | 1 37 | 5 9 | 1 5 | 11 43 | 2 27 | 10 16 | 0 26 | 18 52 | 1 26 | 10 15 | 8 34 | 17 1 | 17 19 | 19 43 | | n.a. |
| W18 | 9 44 | 9 22 | 1 38 | 18 54 | 2 23 | 25 22 | 3 12 | 25 14 | 1 37 | 5 15 | 1 5 | 11 42 | 2 27 | 10 17 | 0 26 | 18 53 | 1 26 | 10 15 | 8 33 | 17 2 | 17 20 | 19 45 | | n.a. |
| T 19 | 10 6 | 3 51 | 2 36 | 18 58 | 2 17 | 25 32 | 3 13 | 25 15 | 1 37 | 5 20 | 1 5 | 11 40 | 2 27 | 10 18 | 0 26 | 18 53 | 1 26 | 10 16 | 8 33 | 17 3 | 17 21 | 19 48 | | n.a. |
| F 20 | 10 27 | 1n44 | 3 27 | 18 58 | 2 9 | 25 41 | 3 14 | 25 16 | 1 36 | 5 26 | 1 5 | 11 39 | 2 27 | 10 19 | 0 26 | 18 53 | 1 26 | 10 16 | 8 33 | 17 5 | 17 21 | 19 50 | | n.a. |
| S 21 | 10 48 | 7 11 | 4 8 | 18 57 | 2 0 | 25 50 | 3 15 | 25 16 | 1 36 | 5 31 | 1 5 | 11 37 | 2 27 | 10 21 | 0 26 | 18 54 | 1 25 | 10 16 | 8 33 | 17 8 | 17 22 | 19 52 | | n.a. |
| S 22 | 11 8 | 12 20 | 4 38 | 18 52 | 1 51 | 25 58 | 3 16 | 25 17 | 1 36 | 5 37 | 1 5 | 11 36 | 2 27 | 10 22 | 0 26 | 18 54 | 1 25 | 10 17 | 8 33 | 17 11 | 17 23 | 19 54 | | n.a. |
| M23 | 11 29 | 17 1 | 4 55 | 18 46 | 1 40 | 26 6 | 3 16 | 25 17 | 1 35 | 5 42 | 1 5 | 11 34 | 2 27 | 10 23 | 0 26 | 18 55 | 1 25 | 10 17 | 8 33 | 17 15 | 17 24 | 19 56 | | n.a. |
| T 24 | 11 49 | 21 2 | 5 0 | 18 37 | 1 29 | 26 13 | 3 17 | 25 17 | 1 35 | 5 47 | 1 5 | 11 33 | 2 27 | 10 25 | 0 26 | 18 55 | 1 25 | 10 18 | 8 33 | 17 19 | 17 25 | 19 59 | | n.a. |
| W25 | 12 10 | 24 11 | 4 51 | 18 26 | 1 16 | 26 19 | 3 17 | 25 17 | 1 35 | 5 53 | 1 5 | 11 32 | 2 27 | 10 26 | 0 26 | 18 56 | 1 25 | 10 18 | 8 33 | 17 22 | 17 26 | 20 1 | | n.a. |
| T 26 | 12 30 | 26 19 | 4 30 | 18 13 | 1 3 | 26 25 | 3 18 | 25 17 | 1 34 | 5 58 | 1 5 | 11 30 | 2 27 | 10 27 | 0 26 | 18 56 | 1 25 | 10 19 | 8 32 | 17 25 | 17 27 | 20 3 | | n.a. |
| F 27 | 12 50 | 27 15 | 3 57 | 17 57 | 0 48 | 26 30 | 3 18 | 25 16 | 1 34 | 6 4 | 1 5 | 11 29 | 2 27 | 10 28 | 0 26 | 18 57 | 1 25 | 10 19 | 8 32 | 17 28 | 17 28 | 20 5 | | n.a. |
| S 28 | 13 9 | 26 54 | 3 13 | 17 40 | 0 33 | 26 34 | 3 17 | 25 16 | 1 34 | 6 9 | 1 5 | 11 27 | 2 27 | 10 30 | 0 26 | 18 57 | 1 25 | 10 19 | 8 32 | 17 30 | 17 29 | 20 7 | | n.a. |
| S 29 | 13 29 | 25 15 | 2 19 | 17 21 | 0 18 | 26 38 | 3 17 | 25 15 | 1 33 | 6 14 | 1 5 | 11 26 | 2 27 | 10 31 | 0 26 | 18 58 | 1 25 | 10 20 | 8 32 | 17 31 | 17 29 | 20 10 | | n.a. |
| M30 | 13n48 | 22n20 | 1n18 | 17n 0 | 0n 1 | 26n42 | 3n17 | 25n14 | 1n33 | 6n20 | 1s 5 | 11s24 | 2n27 | 10n32 | 0s26 | 18n58 | 1s25 | 10n20 | 8s32 | 17s31 | 17s30 | 20n12 | | n.a. |

Julian Day Number = 1693389.5, Delta T = 03h09m18s
Ecliptic obliquity = 23°42'22, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°07'27, Lahiri = - 5°00'26 Julian Calendar 1 Apr. 77 BCE == Greg. Calendar 30 March 077 BCE


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# ASTRODIENST EPHEMERIS for the year 77 BCE
# geocentric

## MAY 77 BCE (-76) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 25 18 | 7♉20'50 | 9♌24 | 16°R12 | 22♊18 | 2♋47 | 18♈42 | 6°R 4 | 28♈13 | 29♉56 | 22♉30 | 11°R32 | 11♒31 | 11♉12 | n.a. | T 1 |
| W 2 | 14 29 15 | 8°18'13 | 22°34 | 15♉47 | 23°11 | 3°21 | 18°56 | 6♏ 0 | 28°16 | 29°58 | 22°31 | 11♒32 | 11°28 | 11°18 | n.a. | W 2 |
| T 3 | 14 33 11 | 9°15'34 | 6♍11 | 15°19 | 24° 3 | 3°56 | 19°10 | 5°55 | 28°20 | 0♊ 0 | 22°33 | 11°30 | 11°24 | 11°25 | n.a. | T 3 |
| F 4 | 14 37 8 | 10°12'54 | 20°17 | 14°49 | 24°55 | 4°31 | 19°24 | 5°51 | 28°23 | 0° 3 | 22°34 | 11°27 | 11°21 | 11°32 | n.a. | F 4 |
| S 5 | 14 41 4 | 11°10'12 | 4♎52 | 14°17 | 25°46 | 5° 7 | 19°37 | 5°47 | 28°27 | 0° 5 | 22°36 | 11°21 | 11°18 | 11°39 | n.a. | S 5 |
| S 6 | 14 45 1 | 12° 7'30 | 19°50 | 13°44 | 26°36 | 5°42 | 19°51 | 5°42 | 28°30 | 0° 7 | 22°37 | 11°12 | 11°15 | 11°45 | n.a. | S 6 |
| M 7 | 14 48 57 | 13° 4'47 | 5♏ 5 | 13°10 | 27°26 | 6°17 | 20° 5 | 5°38 | 28°33 | 0° 9 | 22°38 | 11° 2 | 11°12 | 11°52 | n.a. | M 7 |
| T 8 | 14 52 54 | 14° 2'03 | 20°26 | 12°37 | 28°15 | 6°52 | 20°18 | 5°33 | 28°37 | 0°11 | 22°40 | 10°51 | 11° 8 | 11°59 | n.a. | T 8 |
| W 9 | 14 56 50 | 14°59'18 | 5♐41 | 12° 4 | 29° 3 | 7°27 | 20°32 | 5°29 | 28°40 | 0°13 | 22°41 | 10°41 | 11° 5 | 12° 5 | n.a. | W 9 |
| T 10 | 15 0 47 | 15°56'32 | 20°39 | 11°32 | 29°50 | 8° 3 | 20°45 | 5°25 | 28°44 | 0°16 | 22°43 | 10°33 | 11° 2 | 12°12 | n.a. | T 10 |
| F 11 | 15 4 44 | 16°53'46 | 5♑13 | 11° 2 | 0♋37 | 8°38 | 20°59 | 5°20 | 28°47 | 0°18 | 22°44 | 10°28 | 10°59 | 12°19 | n.a. | F 11 |
| S 12 | 15 8 40 | 17°51'00 | 19°19 | 10°34 | 1°22 | 9°13 | 21°12 | 5°16 | 28°50 | 0°20 | 22°45 | 10°24 | 10°56 | 12°26 | n.a. | S 12 |
| S 13 | 15 12 37 | 18°48'13 | 2♒55 | 10° 8 | 2° 7 | 9°49 | 21°26 | 5°12 | 28°54 | 0°22 | 22°47 | 10°23 | 10°53 | 12°32 | n.a. | S 13 |
| M14 | 15 16 33 | 19°45'25 | 16° 5 | 9°46 | 2°51 | 10°24 | 21°39 | 5° 8 | 28°57 | 0°24 | 22°48 | 10°23 | 10°49 | 12°39 | n.a. | M14 |
| T 15 | 15 20 30 | 20°42'38 | 28°51 | 9°27 | 3°34 | 11° 0 | 21°52 | 5° 4 | 29° 0 | 0°27 | 22°50 | 10°23 | 10°46 | 12°46 | n.a. | T 15 |
| W16 | 15 24 26 | 21°39'49 | 11♓18 | 9°11 | 4°16 | 11°35 | 22° 6 | 4°59 | 29° 4 | 0°29 | 22°51 | 10°22 | 10°43 | 12°52 | n.a. | W16 |
| T 17 | 15 28 23 | 22°37'01 | 23°31 | 9° 0 | 4°57 | 12°11 | 22°19 | 4°55 | 29° 7 | 0°31 | 22°52 | 10°18 | 10°40 | 12°59 | n.a. | T 17 |
| F 18 | 15 32 19 | 23°34'12 | 5♈34 | 8°53 | 5°37 | 12°47 | 22°32 | 4°51 | 29°10 | 0°33 | 22°54 | 10°12 | 10°37 | 13° 6 | n.a. | F 18 |
| S 19 | 15 36 16 | 24°31'23 | 17°30 | 8°D51 | 6°16 | 13°22 | 22°45 | 4°47 | 29°13 | 0°35 | 22°55 | 10° 3 | 10°34 | 13°13 | n.a. | S 19 |
| S 20 | 15 40 13 | 25°28'34 | 29°23 | 8°52 | 6°53 | 13°58 | 22°58 | 4°43 | 29°17 | 0°38 | 22°57 | 9°52 | 10°30 | 13°19 | n.a. | S 20 |
| M21 | 15 44 9 | 26°25'44 | 11♉14 | 8°59 | 7°30 | 14°34 | 23°11 | 4°39 | 29°20 | 0°40 | 22°58 | 9°40 | 10°27 | 13°26 | n.a. | M21 |
| T 22 | 15 48 6 | 27°22'54 | 23° 7 | 9°10 | 8° 5 | 15°10 | 23°24 | 4°35 | 29°23 | 0°42 | 22°59 | 9°27 | 10°24 | 13°33 | n.a. | T 22 |
| W23 | 15 52 2 | 28°20'04 | 5♊ 1 | 9°26 | 8°39 | 15°46 | 23°37 | 4°31 | 29°26 | 0°44 | 23° 1 | 9°14 | 10°21 | 13°40 | n.a. | W23 |
| T 24 | 15 55 59 | 29°17'13 | 16°59 | 9°46 | 9°12 | 16°22 | 23°50 | 4°27 | 29°29 | 0°47 | 23° 2 | 9° 3 | 10°18 | 13°46 | n.a. | T 24 |
| F 25 | 15 59 55 | 0♊14'22 | 29° 2 | 10°12 | 9°43 | 16°58 | 24° 2 | 4°24 | 29°32 | 0°49 | 23° 4 | 8°55 | 10°14 | 13°53 | n.a. | F 25 |
| S 26 | 16 3 52 | 1°11'31 | 11♋13 | 10°41 | 10°13 | 17°34 | 24°15 | 4°20 | 29°35 | 0°51 | 23° 5 | 8°49 | 10°11 | 14° 0 | n.a. | S 26 |
| S 27 | 16 7 49 | 2° 8'39 | 23°33 | 11°16 | 10°41 | 18°10 | 24°28 | 4°16 | 29°39 | 0°53 | 23° 6 | 8°46 | 10° 8 | 14° 6 | n.a. | S 27 |
| M28 | 16 11 45 | 3° 5'47 | 6♌ 5 | 11°54 | 11° 8 | 18°46 | 24°40 | 4°13 | 29°42 | 0°56 | 23° 8 | 8°D45 | 10° 5 | 14°13 | n.a. | M28 |
| T 29 | 16 15 42 | 4° 2'55 | 18°54 | 12°38 | 11°33 | 19°22 | 24°53 | 4° 9 | 29°45 | 0°58 | 23° 9 | 8°45 | 10° 2 | 14°20 | n.a. | T 29 |
| W30 | 16 19 38 | 5° 0'02 | 2♍ 3 | 13°25 | 11°57 | 19°58 | 25° 5 | 4° 6 | 29°48 | 1° 0 | 23°11 | 8°R45 | 9°59 | 14°27 | n.a. | W30 |
| T 31 | 16 23 35 | 5♊57'08 | 15♍35 | 14♉17 | 12♋19 | 20♋35 | 25♈18 | 4♏ 2 | 29♈51 | 1♊ 2 | 23♉12 | 8♒45 | 9♒55 | 14♉33 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| T 1 | 14n 7 | 18n17 | 0n11 | 16n37 | 0s15 | 26n45 | 3n16 | 25n13 | 1n33 | 6n25 | 1s 5 | 11s23 | 2n27 | 10n33 | 0s26 | 18n59 | 1s25 | 10n21 | 8s32 | 17s31 | 17s31 | 20n14 | | | n.a. |
| W 2 | 14 26 | 13 14 | 0s58 | 16 14 | 0 32 | 26 47 | 3 15 | 25 12 | 1 32 | 6 30 | 1 5 | 11 22 | 2 27 | 10 35 | 0 26 | 18 59 | 1 25 | 10 21 | 8 32 | 17 31 | 17 32 | 20 16 | | | n.a. |
| T 3 | 14 44 | 7 23 | 2 6 | 15 49 | 0 49 | 26 49 | 3 14 | 25 11 | 1 32 | 6 36 | 1 5 | 11 20 | 2 27 | 10 36 | 0 26 | 19 0 | 1 25 | 10 22 | 8 32 | 17 31 | 17 33 | 20 18 | | | n.a. |
| F 4 | 15 3 | 1 0 | 3 9 | 15 24 | 1 7 | 26 50 | 3 13 | 25 9 | 1 32 | 6 41 | 1 5 | 11 19 | 2 27 | 10 37 | 0 26 | 19 0 | 1 25 | 10 22 | 8 32 | 17 32 | 17 34 | 20 20 | | | n.a. |
| S 5 | 15 21 | 5s39 | 4 2 | 14 58 | 1 24 | 26 50 | 3 12 | 25 7 | 1 31 | 6 46 | 1 5 | 11 17 | 2 27 | 10 38 | 0 26 | 19 0 | 1 25 | 10 22 | 8 32 | 17 34 | 17 35 | 20 23 | | | n.a. |
| S 6 | 15 39 | 12 9 | 4 40 | 14 32 | 1 41 | 26 50 | 3 11 | 25 6 | 1 31 | 6 51 | 1 5 | 11 16 | 2 27 | 10 40 | 0 26 | 19 1 | 1 25 | 10 23 | 8 32 | 17 36 | 17 36 | 20 25 | | | n.a. |
| M 7 | 15 56 | 18 2 | 4 59 | 14 7 | 1 57 | 26 50 | 3 9 | 25 4 | 1 30 | 6 56 | 1 5 | 11 15 | 2 27 | 10 41 | 0 26 | 19 1 | 1 25 | 10 23 | 8 31 | 17 39 | 17 37 | 20 27 | | | n.a. |
| T 8 | 16 14 | 22 48 | 4 56 | 13 41 | 2 13 | 26 49 | 3 7 | 25 2 | 1 30 | 7 1 | 1 5 | 11 13 | 2 26 | 10 42 | 0 26 | 19 2 | 1 25 | 10 24 | 8 31 | 17 42 | 17 37 | 20 29 | | | n.a. |
| W 9 | 16 31 | 25 57 | 4 32 | 13 17 | 2 28 | 26 47 | 3 5 | 24 59 | 1 30 | 7 7 | 1 5 | 11 12 | 2 26 | 10 43 | 0 26 | 19 2 | 1 25 | 10 24 | 8 31 | 17 45 | 17 38 | 20 31 | | | n.a. |
| T 10 | 16 48 | 27 12 | 3 50 | 12 54 | 2 42 | 26 45 | 3 2 | 24 57 | 1 29 | 7 12 | 1 5 | 11 10 | 2 26 | 10 44 | 0 26 | 19 3 | 1 25 | 10 24 | 8 31 | 17 47 | 17 39 | 20 33 | | | n.a. |
| F 11 | 17 4 | 26 30 | 2 54 | 12 32 | 2 55 | 26 42 | 3 0 | 24 54 | 1 29 | 7 17 | 1 5 | 11 9 | 2 26 | 10 46 | 0 26 | 19 3 | 1 25 | 10 25 | 8 31 | 17 49 | 17 40 | 20 35 | | | n.a. |
| S 12 | 17 21 | 24 6 | 1 49 | 12 11 | 3 7 | 26 39 | 2 57 | 24 51 | 1 29 | 7 22 | 1 5 | 11 8 | 2 26 | 10 47 | 0 26 | 19 4 | 1 25 | 10 25 | 8 31 | 17 50 | 17 41 | 20 37 | | | n.a. |
| S 13 | 17 37 | 20 22 | 0 39 | 11 53 | 3 18 | 26 35 | 2 54 | 24 48 | 1 28 | 7 27 | 1 5 | 11 6 | 2 26 | 10 48 | 0 26 | 19 4 | 1 25 | 10 26 | 8 31 | 17 50 | 17 42 | 20 40 | | | n.a. |
| M14 | 17 52 | 15 43 | 0n30 | 11 37 | 3 28 | 26 31 | 2 51 | 24 45 | 1 28 | 7 32 | 1 5 | 11 5 | 2 26 | 10 49 | 0 26 | 19 5 | 1 25 | 10 26 | 8 31 | 17 50 | 17 43 | 20 42 | | | n.a. |
| T 15 | 18 8 | 10 30 | 1 36 | 11 22 | 3 37 | 26 27 | 2 47 | 24 42 | 1 28 | 7 37 | 1 5 | 11 4 | 2 26 | 10 50 | 0 26 | 19 5 | 1 25 | 10 27 | 8 31 | 17 50 | 17 44 | 20 44 | | | n.a. |
| W16 | 18 23 | 5 0 | 2 36 | 11 11 | 3 44 | 26 22 | 2 44 | 24 39 | 1 27 | 7 42 | 1 5 | 11 3 | 2 26 | 10 52 | 0 26 | 19 6 | 1 25 | 10 27 | 8 31 | 17 50 | 17 44 | 20 46 | | | n.a. |
| T 17 | 18 38 | 0n34 | 3 27 | 11 1 | 3 50 | 26 16 | 2 40 | 24 35 | 1 27 | 7 47 | 1 5 | 11 1 | 2 26 | 10 53 | 0 26 | 19 6 | 1 25 | 10 27 | 8 31 | 17 51 | 17 45 | 20 48 | | | n.a. |
| F 18 | 18 52 | 6 1 | 4 8 | 10 54 | 3 55 | 26 10 | 2 36 | 24 31 | 1 27 | 7 52 | 1 5 | 11 0 | 2 25 | 10 54 | 0 26 | 19 7 | 1 25 | 10 28 | 8 31 | 17 53 | 17 46 | 20 50 | | | n.a. |
| S 19 | 19 7 | 11 13 | 4 38 | 10 50 | 3 59 | 26 4 | 2 31 | 24 27 | 1 26 | 7 57 | 1 5 | 10 59 | 2 25 | 10 55 | 0 26 | 19 7 | 1 25 | 10 28 | 8 31 | 17 55 | 17 47 | 20 52 | | | n.a. |
| S 20 | 19 21 | 15 58 | 4 56 | 10 49 | 4 1 | 25 57 | 2 26 | 24 23 | 1 26 | 8 1 | 1 5 | 10 58 | 2 25 | 10 56 | 0 26 | 19 8 | 1 25 | 10 28 | 8 31 | 17 58 | 17 48 | 20 54 | | | n.a. |
| M21 | 19 34 | 20 7 | 5 1 | 10 50 | 4 2 | 25 50 | 2 21 | 24 19 | 1 25 | 8 6 | 1 5 | 10 56 | 2 25 | 10 57 | 0 26 | 19 8 | 1 25 | 10 29 | 8 31 | 18 2 | 17 49 | 20 56 | | | n.a. |
| T 22 | 19 48 | 23 28 | 4 52 | 10 53 | 4 2 | 25 43 | 2 16 | 24 14 | 1 25 | 8 11 | 1 5 | 10 55 | 2 25 | 10 58 | 0 26 | 19 9 | 1 25 | 10 29 | 8 31 | 18 5 | 17 50 | 20 58 | | | n.a. |
| W23 | 20 1 | 25 49 | 4 31 | 10 59 | 4 1 | 25 35 | 2 10 | 24 10 | 1 25 | 8 16 | 1 5 | 10 54 | 2 25 | 11 0 | 0 26 | 19 9 | 1 25 | 10 30 | 8 31 | 18 9 | 17 51 | 21 0 | | | n.a. |
| T 24 | 20 13 | 27 1 | 3 58 | 11 8 | 3 59 | 25 27 | 2 4 | 24 5 | 1 24 | 8 20 | 1 5 | 10 53 | 2 25 | 11 1 | 0 26 | 19 10 | 1 25 | 10 30 | 8 31 | 18 12 | 17 51 | 21 2 | | | n.a. |
| F 25 | 20 26 | 26 56 | 3 14 | 11 19 | 3 56 | 25 18 | 1 58 | 24 0 | 1 24 | 8 25 | 1 5 | 10 52 | 2 24 | 11 2 | 0 26 | 19 10 | 1 25 | 10 30 | 8 31 | 18 14 | 17 52 | 21 4 | | | n.a. |
| S 26 | 20 38 | 25 34 | 2 21 | 11 32 | 3 52 | 25 10 | 1 51 | 23 55 | 1 24 | 8 30 | 1 5 | 10 51 | 2 24 | 11 3 | 0 26 | 19 10 | 1 25 | 10 31 | 8 31 | 18 15 | 17 53 | 21 6 | | | n.a. |
| S 27 | 20 49 | 22 56 | 1 20 | 11 47 | 3 47 | 25 0 | 1 45 | 23 50 | 1 23 | 8 34 | 1 5 | 10 50 | 2 24 | 11 4 | 0 26 | 19 11 | 1 25 | 10 31 | 8 31 | 18 16 | 17 54 | 21 8 | | | n.a. |
| M28 | 21 1 | 19 11 | 0 14 | 12 5 | 3 41 | 24 51 | 1 37 | 23 44 | 1 23 | 8 39 | 1 5 | 10 49 | 2 24 | 11 5 | 0 26 | 19 11 | 1 25 | 10 31 | 8 31 | 18 16 | 17 55 | 21 10 | | | n.a. |
| T 29 | 21 12 | 14 28 | 0s54 | 12 24 | 3 34 | 24 41 | 1 30 | 23 39 | 1 22 | 8 44 | 1 5 | 10 47 | 2 24 | 11 6 | 0 26 | 19 12 | 1 25 | 10 32 | 8 31 | 18 16 | 17 56 | 21 12 | | | n.a. |
| W30 | 21 22 | 8 59 | 2 1 | 12 45 | 3 27 | 24 31 | 1 22 | 23 33 | 1 22 | 8 48 | 1 5 | 10 46 | 2 24 | 11 7 | 0 26 | 19 12 | 1 25 | 10 32 | 8 31 | 18 16 | 17 57 | 21 14 | | | n.a. |
| T 31 | 21n32 | 2n56 | 3s 3 | 13n 9 | 3s19 | 24n21 | 1n14 | 23n27 | 1n22 | 8n53 | 1s 5 | 10s45 | 2n23 | 11n 8 | 0s26 | 19n13 | 1s25 | 10n32 | 8s30 | 18s16 | 17s58 | 21n16 | | | n.a. |

Julian Day Number = 1693419.5, Delta T = 03h09m17s
Ecliptic obliquity = 23°42'22, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°07'23, Lahiri = - 5°00'22 Julian Calendar 1 May 77 BCE == Greg. Calendar 29 Apr. 077 BCE

The year -76 astronomical counting style corresponds to year 077 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 77 BCE
# geocentric

## JUNE 77 BCE (-76) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 16 27 31 | 6♊54'14 | 29♍32 | 15♉14 | 12♋39 | 21♋11 | 25♈30 | 3°R59 | 29♈54 | 1♊ 4 | 23♉13 | 8°R43 | 9♒52 | 14♉40 | n.a. | F 1 |
| S 2 | 16 31 28 | 7°51'20 | 13♎55 | 16°14 | 12°57 | 21°47 | 25°42 | 3♏56 | 29°56 | 1° 7 | 23°15 | 8♒39 | 9°49 | 14°47 | n.a. | S 2 |
| S 3 | 16 35 24 | 8°48'26 | 28°40 | 17°19 | 13°13 | 22°24 | 25°54 | 3°52 | 29°59 | 1° 9 | 23°16 | 8°32 | 9°46 | 14°54 | n.a. | S 3 |
| M 4 | 16 39 21 | 9°45'31 | 13♏43 | 18°27 | 13°28 | 23° 0 | 26° 6 | 3°49 | 0♉ 2 | 1°11 | 23°17 | 8°25 | 9°43 | 15° 0 | n.a. | M 4 |
| T 5 | 16 43 18 | 10°42'37 | 28°54 | 19°40 | 13°40 | 23°37 | 26°19 | 3°46 | 0° 5 | 1°13 | 23°19 | 8°16 | 9°40 | 15° 7 | n.a. | T 5 |
| W 6 | 16 47 14 | 11°39'42 | 14♐ 4 | 20°57 | 13°50 | 24°13 | 26°30 | 3°43 | 0° 8 | 1°16 | 23°20 | 8° 8 | 9°36 | 15°14 | n.a. | W 6 |
| T 7 | 16 51 11 | 12°36'48 | 29° 1 | 22°18 | 13°58 | 24°50 | 26°42 | 3°40 | 0°11 | 1°18 | 23°22 | 8° 2 | 9°33 | 15°20 | n.a. | T 7 |
| F 8 | 16 55 7 | 13°33'54 | 13♑38 | 23°42 | 14° 4 | 25°26 | 26°54 | 3°37 | 0°13 | 1°20 | 23°23 | 7°57 | 9°30 | 15°27 | n.a. | F 8 |
| S 9 | 16 59 4 | 14°31'01 | 27°49 | 25°11 | 14° 8 | 26° 3 | 27° 6 | 3°34 | 0°16 | 1°22 | 23°24 | 7°55 | 9°27 | 15°34 | n.a. | S 9 |
| S 10 | 17 3 0 | 15°28'07 | 11♒31 | 26°43 | 14°R 9 | 26°39 | 27°17 | 3°32 | 0°19 | 1°24 | 23°26 | 7°D55 | 9°24 | 15°41 | n.a. | S 10 |
| M11 | 17 6 57 | 16°25'15 | 24°46 | 28°19 | 14° 8 | 27°16 | 27°29 | 3°29 | 0°22 | 1°27 | 23°27 | 7°55 | 9°20 | 15°47 | n.a. | M11 |
| T 12 | 17 10 53 | 17°22'22 | 7♓37 | 29°58 | 14° 5 | 27°53 | 27°40 | 3°26 | 0°24 | 1°29 | 23°28 | 7°56 | 9°17 | 15°54 | n.a. | T 12 |
| W13 | 17 14 50 | 18°19'31 | 20° 6 | 1♊41 | 14° 0 | 28°30 | 27°52 | 3°24 | 0°27 | 1°31 | 23°29 | 7°R57 | 9°14 | 16° 1 | n.a. | W13 |
| T 14 | 17 18 47 | 19°16'40 | 2♈20 | 3°27 | 13°52 | 29° 7 | 28° 3 | 3°21 | 0°29 | 1°33 | 23°31 | 7°56 | 9°11 | 16° 8 | n.a. | T 14 |
| F 15 | 17 22 43 | 20°13'49 | 14°22 | 5°16 | 13°41 | 29°43 | 28°14 | 3°19 | 0°32 | 1°35 | 23°32 | 7°53 | 9° 8 | 16°14 | n.a. | F 15 |
| S 16 | 17 26 40 | 21°11'00 | 26°16 | 7° 9 | 13°29 | 0♌20 | 28°25 | 3°17 | 0°34 | 1°37 | 23°33 | 7°48 | 9° 5 | 16°21 | n.a. | S 16 |
| S 17 | 17 30 36 | 22° 8'11 | 8♉ 8 | 9° 4 | 13°14 | 0°57 | 28°36 | 3°15 | 0°37 | 1°39 | 23°35 | 7°42 | 9° 1 | 16°28 | n.a. | S 17 |
| M18 | 17 34 33 | 23° 5'23 | 20° 0 | 11° 1 | 12°56 | 1°34 | 28°47 | 3°13 | 0°39 | 1°42 | 23°36 | 7°34 | 8°58 | 16°34 | n.a. | M18 |
| T 19 | 17 38 29 | 24° 2'35 | 1♊55 | 13° 1 | 12°37 | 2°11 | 28°58 | 3°11 | 0°42 | 1°44 | 23°37 | 7°26 | 8°55 | 16°41 | n.a. | T 19 |
| W20 | 17 42 26 | 24°59'49 | 13°54 | 15° 3 | 12°15 | 2°49 | 29° 9 | 3° 9 | 0°44 | 1°46 | 23°38 | 7°18 | 8°52 | 16°48 | n.a. | W20 |
| T 21 | 17 46 23 | 25°57'03 | 26° 1 | 17° 6 | 11°51 | 3°26 | 29°20 | 3° 7 | 0°46 | 1°48 | 23°40 | 7°11 | 8°49 | 16°55 | n.a. | T 21 |
| F 22 | 17 50 19 | 26°54'17 | 8♋15 | 19°11 | 11°25 | 4° 3 | 29°30 | 3° 5 | 0°49 | 1°50 | 23°41 | 7° 6 | 8°46 | 17° 1 | n.a. | F 22 |
| S 23 | 17 54 16 | 27°51'32 | 20°38 | 21°17 | 10°57 | 4°40 | 29°41 | 3° 3 | 0°51 | 1°52 | 23°42 | 7° 3 | 8°42 | 17° 8 | n.a. | S 23 |
| S 24 | 17 58 12 | 28°48'48 | 3♌12 | 23°24 | 10°28 | 5°17 | 29°51 | 3° 2 | 0°53 | 1°54 | 23°43 | 7°D 2 | 8°39 | 17°15 | n.a. | S 24 |
| M25 | 18 2 9 | 29°46'05 | 15°58 | 25°31 | 9°57 | 5°55 | 0♉ 1 | 3° 0 | 0°55 | 1°56 | 23°44 | 7° 2 | 8°36 | 17°21 | n.a. | M25 |
| T 26 | 18 6 5 | 0♋43'21 | 28°57 | 27°38 | 9°24 | 6°32 | 0°11 | 2°59 | 0°57 | 1°58 | 23°46 | 7° 3 | 8°33 | 17°28 | n.a. | T 26 |
| W27 | 18 10 2 | 1°40'39 | 12♍13 | 29°45 | 8°50 | 7° 9 | 0°21 | 2°58 | 1° 0 | 2° 0 | 23°47 | 7° 5 | 8°30 | 17°35 | n.a. | W27 |
| T 28 | 18 13 58 | 2°37'57 | 25°47 | 1♋51 | 8°15 | 7°47 | 0°31 | 2°57 | 1° 2 | 2° 2 | 23°48 | 7° 6 | 8°26 | 17°42 | n.a. | T 28 |
| F 29 | 18 17 55 | 3°35'15 | 9♎39 | 3°57 | 7°39 | 8°24 | 0°41 | 2°55 | 1° 4 | 2° 4 | 23°49 | 7°R 6 | 8°23 | 17°48 | n.a. | F 29 |
| S 30 | 18 21 52 | 4♋32'34 | 23♎51 | 6♋ 2 | 7♋ 2 | 9♌ 2 | 0♉51 | 2♏54 | 1♉ 6 | 2♊ 6 | 23♉50 | 7♒ 4 | 8♒20 | 17♉55 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 21n42 | 3s25 | 3s57 | 13n33 | 3s10 | 24n11 | 1n 5 | 23n21 | 1n21 | 8n57 | 1s 6 | 10s44 | 2n23 | 11n 9 | 0s26 | 19n13 | 1s25 | 10n33 | 8s30 | 18s17 | 17s58 | 21n18 | | n.a. |
| S 2 | 21 52 | 9 47 | 4 37 | 14 0 | 3 1 | 24 0 | 0 56 | 23 15 | 1 21 | 9 2 | 1 6 | 10 44 | 2 23 | 11 10 | 0 26 | 19 14 | 1 25 | 10 33 | 8 30 | 18 18 | 17 59 | 21 20 | | n.a. |
| S 3 | 22 1 | 15 47 | 5 0 | 14 28 | 2 51 | 23 49 | 0 47 | 23 9 | 1 20 | 9 6 | 1 6 | 10 43 | 2 23 | 11 11 | 0 26 | 19 14 | 1 25 | 10 33 | 8 30 | 18 20 | 18 0 | 21 22 | | n.a. |
| M 4 | 22 10 | 20 56 | 5 3 | 14 57 | 2 40 | 23 38 | 0 37 | 23 2 | 1 20 | 9 10 | 1 6 | 10 42 | 2 23 | 11 12 | 0 26 | 19 15 | 1 25 | 10 34 | 8 31 | 18 22 | 18 1 | 21 24 | | n.a. |
| T 5 | 22 18 | 24 46 | 4 45 | 15 27 | 2 30 | 23 27 | 0 27 | 22 55 | 1 20 | 9 15 | 1 6 | 10 41 | 2 22 | 11 13 | 0 26 | 19 15 | 1 25 | 10 34 | 8 31 | 18 24 | 18 2 | 21 26 | | n.a. |
| W 6 | 22 26 | 26 50 | 4 7 | 15 58 | 2 18 | 23 15 | 0 17 | 22 49 | 1 19 | 9 19 | 1 6 | 10 40 | 2 22 | 11 14 | 0 26 | 19 16 | 1 25 | 10 34 | 8 31 | 18 26 | 18 3 | 21 28 | | n.a. |
| T 7 | 22 34 | 26 55 | 3 13 | 16 30 | 2 7 | 23 4 | 0 6 | 22 42 | 1 19 | 9 23 | 1 6 | 10 39 | 2 22 | 11 15 | 0 26 | 19 16 | 1 25 | 10 35 | 8 31 | 18 28 | 18 4 | 21 30 | | n.a. |
| F 8 | 22 41 | 25 6 | 2 6 | 17 3 | 1 55 | 22 52 | 0s 5 | 22 34 | 1 19 | 9 27 | 1 6 | 10 38 | 2 22 | 11 16 | 0 26 | 19 16 | 1 25 | 10 35 | 8 31 | 18 29 | 18 4 | 21 32 | | n.a. |
| S 9 | 22 48 | 21 43 | 0 54 | 17 37 | 1 43 | 22 41 | 0 16 | 22 27 | 1 18 | 9 32 | 1 6 | 10 38 | 2 22 | 11 17 | 0 26 | 19 17 | 1 25 | 10 35 | 8 31 | 18 30 | 18 5 | 21 34 | | n.a. |
| S 10 | 22 54 | 17 12 | 0n19 | 18 10 | 1 30 | 22 29 | 0 28 | 22 20 | 1 18 | 9 36 | 1 6 | 10 37 | 2 21 | 11 18 | 0 26 | 19 17 | 1 25 | 10 36 | 8 31 | 18 30 | 18 6 | 21 36 | | n.a. |
| M11 | 23 0 | 12 0 | 1 29 | 18 44 | 1 18 | 22 17 | 0 40 | 22 12 | 1 17 | 9 40 | 1 6 | 10 36 | 2 21 | 11 19 | 0 26 | 19 18 | 1 25 | 10 36 | 8 31 | 18 29 | 18 7 | 21 38 | | n.a. |
| T 12 | 23 6 | 6 27 | 2 33 | 19 18 | 1 6 | 22 5 | 0 53 | 22 4 | 1 17 | 9 44 | 1 6 | 10 36 | 2 21 | 11 20 | 0 26 | 19 18 | 1 25 | 10 36 | 8 31 | 18 29 | 18 8 | 21 40 | | n.a. |
| W13 | 23 11 | 0 48 | 3 27 | 19 52 | 0 53 | 21 53 | 1 5 | 21 56 | 1 17 | 9 48 | 1 6 | 10 35 | 2 21 | 11 21 | 0 26 | 19 19 | 1 25 | 10 36 | 8 31 | 18 29 | 18 9 | 21 42 | | n.a. |
| T 14 | 23 16 | 4n46 | 4 11 | 20 25 | 0 41 | 21 41 | 1 18 | 21 48 | 1 16 | 9 52 | 1 6 | 10 34 | 2 21 | 11 22 | 0 26 | 19 19 | 1 25 | 10 37 | 8 31 | 18 29 | 18 9 | 21 44 | | n.a. |
| F 15 | 23 20 | 10 3 | 4 42 | 20 57 | 0 28 | 21 29 | 1 32 | 21 40 | 1 16 | 9 56 | 1 7 | 10 34 | 2 20 | 11 23 | 0 26 | 19 20 | 1 25 | 10 37 | 8 31 | 18 30 | 18 10 | 21 46 | | n.a. |
| S 16 | 23 25 | 14 55 | 5 1 | 21 29 | 0 16 | 21 16 | 1 45 | 21 32 | 1 15 | 10 0 | 1 7 | 10 33 | 2 20 | 11 24 | 0 26 | 19 20 | 1 25 | 10 37 | 8 31 | 18 31 | 18 11 | 21 47 | | n.a. |
| S 17 | 23 28 | 19 13 | 5 8 | 21 59 | 0 4 | 21 4 | 1 59 | 21 23 | 1 15 | 10 4 | 1 7 | 10 33 | 2 20 | 11 25 | 0 26 | 19 20 | 1 25 | 10 37 | 8 31 | 18 33 | 18 12 | 21 49 | | n.a. |
| M18 | 23 31 | 22 45 | 5 0 | 22 28 | 0n 7 | 20 52 | 2 13 | 21 14 | 1 15 | 10 7 | 1 7 | 10 32 | 2 20 | 11 25 | 0 26 | 19 21 | 1 25 | 10 38 | 8 31 | 18 35 | 18 13 | 21 51 | | n.a. |
| T 19 | 23 34 | 25 21 | 4 40 | 22 55 | 0 18 | 20 40 | 2 27 | 21 6 | 1 14 | 10 11 | 1 7 | 10 32 | 2 19 | 11 26 | 0 26 | 19 21 | 1 25 | 10 38 | 8 31 | 18 37 | 18 14 | 21 53 | | n.a. |
| W20 | 23 37 | 26 49 | 4 8 | 23 20 | 0 29 | 20 28 | 2 41 | 20 57 | 1 14 | 10 15 | 1 7 | 10 31 | 2 19 | 11 27 | 0 26 | 19 22 | 1 25 | 10 38 | 8 31 | 18 39 | 18 15 | 21 55 | | n.a. |
| T 21 | 23 39 | 27 2 | 3 24 | 23 43 | 0 39 | 20 16 | 2 55 | 20 48 | 1 13 | 10 19 | 1 7 | 10 31 | 2 19 | 11 28 | 0 26 | 19 22 | 1 25 | 10 38 | 8 31 | 18 41 | 18 15 | 21 57 | | n.a. |
| F 22 | 23 40 | 25 56 | 2 30 | 24 4 | 0 49 | 20 4 | 3 9 | 20 38 | 1 13 | 10 22 | 1 7 | 10 30 | 2 19 | 11 29 | 0 26 | 19 22 | 1 25 | 10 39 | 8 31 | 18 42 | 18 16 | 21 59 | | n.a. |
| S 23 | 23 41 | 23 33 | 1 28 | 24 23 | 0 58 | 19 52 | 3 24 | 20 29 | 1 12 | 10 26 | 1 7 | 10 30 | 2 18 | 11 29 | 0 26 | 19 23 | 1 25 | 10 39 | 8 31 | 18 43 | 18 17 | 22 1 | | n.a. |
| S 24 | 23 42 | 20 0 | 0 21 | 24 38 | 1 6 | 19 40 | 3 38 | 20 19 | 1 12 | 10 30 | 1 7 | 10 30 | 2 18 | 11 30 | 0 26 | 19 23 | 1 25 | 10 39 | 8 31 | 18 43 | 18 18 | 22 2 | | n.a. |
| M25 | 23 42 | 15 28 | 0s48 | 24 51 | 1 14 | 19 29 | 3 52 | 20 10 | 1 12 | 10 33 | 1 7 | 10 29 | 2 18 | 11 31 | 0 26 | 19 24 | 1 25 | 10 39 | 8 31 | 18 43 | 18 19 | 22 4 | | n.a. |
| T 26 | 23 42 | 10 9 | 1 57 | 25 1 | 1 20 | 19 17 | 4 5 | 20 0 | 1 11 | 10 37 | 1 8 | 10 29 | 2 18 | 11 32 | 0 26 | 19 24 | 1 25 | 10 40 | 8 31 | 18 43 | 18 20 | 22 6 | | n.a. |
| W27 | 23 42 | 4 17 | 3 0 | 25 9 | 1 26 | 19 6 | 4 19 | 19 50 | 1 11 | 10 40 | 1 8 | 10 29 | 2 17 | 11 32 | 0 26 | 19 24 | 1 25 | 10 40 | 8 31 | 18 43 | 18 20 | 22 8 | | n.a. |
| T 28 | 23 41 | 1s53 | 3 55 | 25 13 | 1 32 | 18 55 | 4 32 | 19 40 | 1 10 | 10 43 | 1 8 | 10 29 | 2 17 | 11 33 | 0 26 | 19 25 | 1 25 | 10 40 | 8 31 | 18 42 | 18 21 | 22 10 | | n.a. |
| F 29 | 23 39 | 8 6 | 4 37 | 25 15 | 1 36 | 18 45 | 4 45 | 19 29 | 1 10 | 10 47 | 1 8 | 10 29 | 2 17 | 11 34 | 0 26 | 19 25 | 1 25 | 10 40 | 8 32 | 18 42 | 18 22 | 22 12 | | n.a. |
| S 30 | 23n38 | 14s 3 | 5s 4 | 25n14 | 1n40 | 18n35 | 4s57 | 19n19 | 1n10 | 10n50 | 1s 8 | 10s29 | 2n17 | 11n35 | 0s26 | 19n26 | 1s25 | 10n40 | 8s32 | 18s43 | 18s23 | 22n13 | | n.a. |

Julian Day Number = 1693450.5, Delta T = 03h09m17s
Ecliptic obliquity = 23°42'21, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°07'18, Lahiri = - 5°00'18 Julian Calendar 1 June 77 BCE == Greg. Calendar 30 May 077 BCE

The year -76 astronomical counting style corresponds to year 077 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 77 BCE
# geocentric

## JULY 77 BCE (-76) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 25 48 | 5♋29'54 | 8♏20 | 8♋ 6 | 6°R25 | 9♌39 | 1♉ 0 | 2°R53 | 1♉ 7 | 2♊ 8 | 23♉51 | 7°R 2 | 8♒17 | 18♉ 2 | n.a. | S 1 |
| M 2 | 18 29 45 | 6°27'14 | 23° 2 | 10° 9 | 5♋48 | 10°17 | 1°10 | 2♏53 | 1° 9 | 2°10 | 23°52 | 6♒58 | 8°14 | 18° 9 | n.a. | M 2 |
| T 3 | 18 33 41 | 7°24'36 | 7♐52 | 12°11 | 5°10 | 10°55 | 1°19 | 2°52 | 1°11 | 2°12 | 23°53 | 6°54 | 8°11 | 18°15 | n.a. | T 3 |
| W 4 | 18 37 38 | 8°21'58 | 22°42 | 14°12 | 4°33 | 11°32 | 1°28 | 2°51 | 1°13 | 2°14 | 23°54 | 6°50 | 8° 7 | 18°22 | n.a. | W 4 |
| T 5 | 18 41 34 | 9°19'21 | 7♑23 | 16°11 | 3°57 | 12°10 | 1°37 | 2°51 | 1°15 | 2°16 | 23°55 | 6°47 | 8° 4 | 18°29 | n.a. | T 5 |
| F 6 | 18 45 31 | 10°16'45 | 21°50 | 18° 8 | 3°21 | 12°48 | 1°46 | 2°50 | 1°17 | 2°17 | 23°57 | 6°45 | 8° 1 | 18°35 | n.a. | F 6 |
| S 7 | 18 49 27 | 11°14'11 | 5♒55 | 20° 5 | 2°47 | 13°26 | 1°55 | 2°50 | 1°18 | 2°19 | 23°58 | 6°D44 | 7°58 | 18°42 | n.a. | S 7 |
| S 8 | 18 53 24 | 12°11'37 | 19°37 | 21°59 | 2°13 | 14° 4 | 2° 4 | 2°50 | 1°20 | 2°21 | 23°59 | 6°45 | 7°55 | 18°49 | n.a. | S 8 |
| M 9 | 18 57 21 | 13° 9'05 | 2♓54 | 23°53 | 1°41 | 14°41 | 2°12 | 2°50 | 1°21 | 2°23 | 24° 0 | 6°46 | 7°52 | 18°56 | n.a. | M 9 |
| T 10 | 19 1 17 | 14° 6'34 | 15°48 | 25°44 | 1°11 | 15°19 | 2°21 | 2°D49 | 1°23 | 2°25 | 24° 1 | 6°48 | 7°48 | 19° 2 | n.a. | T 10 |
| W11 | 19 5 14 | 15° 4'05 | 28°21 | 27°34 | 0°42 | 15°57 | 2°29 | 2°50 | 1°24 | 2°26 | 24° 1 | 6°49 | 7°45 | 19° 9 | n.a. | W11 |
| T 12 | 19 9 10 | 16° 1'37 | 10♈37 | 29°23 | 0°15 | 16°35 | 2°37 | 2°50 | 1°26 | 2°28 | 24° 2 | 6°R50 | 7°42 | 19°16 | n.a. | T 12 |
| F 13 | 19 13 7 | 16°59'11 | 22°41 | 1♌10 | 29♊50 | 17°13 | 2°45 | 2°50 | 1°27 | 2°30 | 24° 3 | 6°50 | 7°39 | 19°22 | n.a. | F 13 |
| S 14 | 19 17 3 | 17°56'46 | 4♉37 | 2°56 | 29°28 | 17°52 | 2°53 | 2°50 | 1°29 | 2°32 | 24° 4 | 6°49 | 7°36 | 19°29 | n.a. | S 14 |
| S 15 | 19 21 0 | 18°54'23 | 16°30 | 4°40 | 29° 7 | 18°30 | 3° 1 | 2°51 | 1°30 | 2°33 | 24° 5 | 6°47 | 7°32 | 19°36 | n.a. | S 15 |
| M16 | 19 24 56 | 19°52'02 | 28°23 | 6°22 | 28°49 | 19° 8 | 3° 9 | 2°51 | 1°31 | 2°35 | 24° 6 | 6°45 | 7°29 | 19°43 | n.a. | M16 |
| T 17 | 19 28 53 | 20°49'42 | 10♊21 | 8° 4 | 28°33 | 19°46 | 3°16 | 2°52 | 1°33 | 2°37 | 24° 7 | 6°43 | 7°26 | 19°49 | n.a. | T 17 |
| W18 | 19 32 50 | 21°47'24 | 22°26 | 9°43 | 28°20 | 20°25 | 3°24 | 2°52 | 1°34 | 2°38 | 24° 8 | 6°40 | 7°23 | 19°56 | n.a. | W18 |
| T 19 | 19 36 46 | 22°45'07 | 4♋42 | 11°22 | 28° 9 | 21° 3 | 3°31 | 2°53 | 1°35 | 2°40 | 24° 9 | 6°38 | 7°20 | 20° 3 | n.a. | T 19 |
| F 20 | 19 40 43 | 23°42'52 | 17° 9 | 12°58 | 28° 0 | 21°41 | 3°38 | 2°54 | 1°36 | 2°41 | 24° 9 | 6°37 | 7°17 | 20°10 | n.a. | F 20 |
| S 21 | 19 44 39 | 24°40'38 | 29°49 | 14°34 | 27°54 | 22°20 | 3°45 | 2°55 | 1°37 | 2°43 | 24°10 | 6°36 | 7°13 | 20°16 | n.a. | S 21 |
| S 22 | 19 48 36 | 25°38'26 | 12♌42 | 16° 8 | 27°50 | 22°58 | 3°51 | 2°56 | 1°38 | 2°44 | 24°11 | 6°D36 | 7°10 | 20°23 | n.a. | S 22 |
| M23 | 19 52 32 | 26°36'16 | 25°49 | 17°40 | 27°D48 | 23°37 | 3°58 | 2°57 | 1°39 | 2°46 | 24°12 | 6°37 | 7° 7 | 20°30 | n.a. | M23 |
| T 24 | 19 56 29 | 27°34'06 | 9♍ 9 | 19°11 | 27°49 | 24°15 | 4° 5 | 2°59 | 1°40 | 2°47 | 24°12 | 6°37 | 7° 4 | 20°36 | n.a. | T 24 |
| W25 | 20 0 25 | 28°31'58 | 22°43 | 20°41 | 27°52 | 24°54 | 4°11 | 3° 0 | 1°41 | 2°49 | 24°13 | 6°38 | 7° 1 | 20°43 | n.a. | W25 |
| T 26 | 20 4 22 | 29°29'52 | 6♎28 | 22° 9 | 27°57 | 25°33 | 4°17 | 3° 2 | 1°41 | 2°50 | 24°14 | 6°39 | 6°58 | 20°50 | n.a. | T 26 |
| F 27 | 20 8 19 | 0♌27'47 | 20°26 | 23°36 | 28° 4 | 26°11 | 4°23 | 3° 3 | 1°42 | 2°52 | 24°15 | 6°39 | 6°54 | 20°57 | n.a. | F 27 |
| S 28 | 20 12 15 | 1°25'43 | 4♏34 | 25° 1 | 28°14 | 26°50 | 4°29 | 3° 5 | 1°43 | 2°53 | 24°15 | 6°R39 | 6°51 | 21° 3 | n.a. | S 28 |
| S 29 | 20 16 12 | 2°23'40 | 18°50 | 26°24 | 28°25 | 27°29 | 4°34 | 3° 7 | 1°43 | 2°54 | 24°16 | 6°39 | 6°48 | 21°10 | n.a. | S 29 |
| M30 | 20 20 8 | 3°21'39 | 3♐12 | 27°47 | 28°39 | 28° 8 | 4°40 | 3° 8 | 1°44 | 2°56 | 24°16 | 6°39 | 6°45 | 21°17 | n.a. | M30 |
| T 31 | 20 24 5 | 4♌19'40 | 17♐37 | 29♌ 7 | 28♊55 | 28♌47 | 4♉45 | 3♏10 | 1♉45 | 2♊57 | 24♉17 | 6♒39 | 6♒42 | 21♉23 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| S 1 | 23n35 | 19s21 | 5s12 | 25n10 | 1n43 | 18n25 | 5s 9 | 19n 8 | 1n 9 | 10n53 | 1s 8 | 10s29 | 2n16 | 11n35 | 0s26 | 19n26 | 1s25 | 10n41 | 8s32 | 18s43 | 18s24 | 22n15 | | | n.a. |
| M 2 | 23 33 | 23 34 | 5 0 | 25 4 | 1 46 | 18 15 | 5 20 | 18 58 | 1 9 | 10 56 | 1 8 | 10 28 | 2 16 | 11 36 | 0 26 | 19 26 | 1 25 | 10 41 | 8 32 | 18 44 | 18 25 | 22 17 | | | n.a. |
| T 3 | 23 30 | 26 16 | 4 28 | 24 55 | 1 47 | 18 6 | 5 31 | 18 47 | 1 8 | 11 0 | 1 8 | 10 28 | 2 16 | 11 36 | 0 26 | 19 27 | 1 25 | 10 41 | 8 32 | 18 45 | 18 25 | 22 19 | | | n.a. |
| W 4 | 23 26 | 27 8 | 3 38 | 24 44 | 1 48 | 17 57 | 5 41 | 18 36 | 1 8 | 11 3 | 1 8 | 10 28 | 2 16 | 11 37 | 0 26 | 19 27 | 1 25 | 10 41 | 8 32 | 18 46 | 18 26 | 22 21 | | | n.a. |
| T 5 | 23 22 | 26 4 | 2 34 | 24 31 | 1 49 | 17 49 | 5 50 | 18 25 | 1 7 | 11 6 | 1 9 | 10 29 | 2 15 | 11 38 | 0 26 | 19 27 | 1 25 | 10 41 | 8 32 | 18 47 | 18 27 | 22 22 | | | n.a. |
| F 6 | 23 18 | 23 15 | 1 21 | 24 15 | 1 49 | 17 41 | 5 59 | 18 14 | 1 7 | 11 9 | 1 9 | 10 29 | 2 15 | 11 38 | 0 26 | 19 28 | 1 25 | 10 41 | 8 32 | 18 48 | 18 28 | 22 24 | | | n.a. |
| S 7 | 23 13 | 19 4 | 0 4 | 23 58 | 1 48 | 17 34 | 6 7 | 18 2 | 1 7 | 11 12 | 1 9 | 10 29 | 2 15 | 11 39 | 0 26 | 19 28 | 1 25 | 10 42 | 8 32 | 18 48 | 18 29 | 22 26 | | | n.a. |
| S 8 | 23 8 | 13 59 | 1n10 | 23 38 | 1 46 | 17 27 | 6 14 | 17 51 | 1 6 | 11 15 | 1 9 | 10 29 | 2 15 | 11 39 | 0 26 | 19 28 | 1 25 | 10 42 | 8 32 | 18 48 | 18 30 | 22 28 | | | n.a. |
| M 9 | 23 3 | 8 24 | 2 19 | 23 17 | 1 44 | 17 21 | 6 21 | 17 39 | 1 6 | 11 18 | 1 9 | 10 29 | 2 14 | 11 40 | 0 26 | 19 29 | 1 25 | 10 42 | 8 32 | 18 47 | 18 30 | 22 29 | | | n.a. |
| T 10 | 22 57 | 2 37 | 3 18 | 22 54 | 1 42 | 17 16 | 6 26 | 17 27 | 1 5 | 11 20 | 1 9 | 10 29 | 2 14 | 11 41 | 0 26 | 19 29 | 1 25 | 10 42 | 8 33 | 18 47 | 18 31 | 22 31 | | | n.a. |
| W11 | 22 51 | 3n 6 | 4 7 | 22 29 | 1 39 | 17 11 | 6 31 | 17 16 | 1 5 | 11 23 | 1 9 | 10 30 | 2 14 | 11 41 | 0 26 | 19 29 | 1 25 | 10 42 | 8 33 | 18 47 | 18 32 | 22 33 | | | n.a. |
| T 12 | 22 44 | 8 34 | 4 43 | 22 3 | 1 35 | 17 7 | 6 36 | 17 4 | 1 4 | 11 26 | 1 9 | 10 30 | 2 14 | 11 42 | 0 26 | 19 30 | 1 25 | 10 42 | 8 33 | 18 46 | 18 33 | 22 35 | | | n.a. |
| F 13 | 22 37 | 13 38 | 5 5 | 21 36 | 1 31 | 17 3 | 6 39 | 16 52 | 1 4 | 11 29 | 1 10 | 10 30 | 2 13 | 11 42 | 0 26 | 19 30 | 1 25 | 10 42 | 8 33 | 18 46 | 18 34 | 22 36 | | | n.a. |
| S 14 | 22 29 | 18 8 | 5 15 | 21 8 | 1 27 | 17 0 | 6 42 | 16 39 | 1 3 | 11 31 | 1 10 | 10 31 | 2 13 | 11 42 | 0 26 | 19 30 | 1 25 | 10 43 | 8 33 | 18 47 | 18 35 | 22 38 | | | n.a. |
| S 15 | 22 21 | 21 54 | 5 10 | 20 38 | 1 22 | 16 58 | 6 45 | 16 27 | 1 3 | 11 34 | 1 10 | 10 31 | 2 13 | 11 43 | 0 26 | 19 31 | 1 25 | 10 43 | 8 33 | 18 47 | 18 35 | 22 40 | | | n.a. |
| M16 | 22 13 | 24 46 | 4 53 | 20 8 | 1 17 | 16 56 | 6 46 | 16 14 | 1 3 | 11 36 | 1 10 | 10 31 | 2 13 | 11 43 | 0 26 | 19 31 | 1 25 | 10 43 | 8 33 | 18 48 | 18 36 | 22 41 | | | n.a. |
| T 17 | 22 4 | 26 35 | 4 23 | 19 36 | 1 11 | 16 55 | 6 47 | 16 2 | 1 2 | 11 39 | 1 10 | 10 32 | 2 12 | 11 44 | 0 26 | 19 31 | 1 25 | 10 43 | 8 33 | 18 48 | 18 37 | 22 43 | | | n.a. |
| W18 | 21 55 | 27 9 | 3 40 | 19 4 | 1 6 | 16 54 | 6 48 | 15 49 | 1 2 | 11 41 | 1 10 | 10 32 | 2 12 | 11 44 | 0 26 | 19 32 | 1 25 | 10 43 | 8 33 | 18 49 | 18 38 | 22 45 | | | n.a. |
| T 19 | 21 46 | 26 24 | 2 47 | 18 31 | 0 59 | 16 54 | 6 48 | 15 36 | 1 1 | 11 43 | 1 10 | 10 33 | 2 12 | 11 45 | 0 26 | 19 32 | 1 25 | 10 43 | 8 33 | 18 49 | 18 39 | 22 47 | | | n.a. |
| F 20 | 21 36 | 24 20 | 1 46 | 17 57 | 0 53 | 16 55 | 6 47 | 15 23 | 1 1 | 11 46 | 1 11 | 10 33 | 2 12 | 11 45 | 0 26 | 19 32 | 1 25 | 10 43 | 8 34 | 18 50 | 18 39 | 22 48 | | | n.a. |
| S 21 | 21 26 | 21 2 | 0 37 | 17 23 | 0 46 | 16 56 | 6 46 | 15 10 | 1 0 | 11 48 | 1 11 | 10 34 | 2 11 | 11 45 | 0 26 | 19 32 | 1 25 | 10 43 | 8 34 | 18 50 | 18 40 | 22 50 | | | n.a. |
| S 22 | 21 15 | 16 39 | 0s34 | 16 48 | 0 39 | 16 57 | 6 44 | 14 57 | 1 0 | 11 50 | 1 11 | 10 35 | 2 11 | 11 46 | 0 26 | 19 33 | 1 25 | 10 43 | 8 34 | 18 50 | 18 41 | 22 52 | | | n.a. |
| M23 | 21 4 | 11 25 | 1 44 | 16 13 | 0 32 | 16 59 | 6 42 | 14 44 | 0 59 | 11 52 | 1 11 | 10 35 | 2 11 | 11 46 | 0 26 | 19 33 | 1 25 | 10 43 | 8 34 | 18 50 | 18 42 | 22 53 | | | n.a. |
| T 24 | 20 53 | 5 36 | 2 51 | 15 37 | 0 24 | 17 2 | 6 40 | 14 31 | 0 59 | 11 54 | 1 11 | 10 36 | 2 11 | 11 46 | 0 26 | 19 33 | 1 25 | 10 43 | 8 34 | 18 49 | 18 43 | 22 55 | | | n.a. |
| W25 | 20 41 | 0s34 | 3 48 | 15 1 | 0 17 | 17 5 | 6 37 | 14 17 | 0 59 | 11 56 | 1 11 | 10 37 | 2 10 | 11 46 | 0 26 | 19 33 | 1 26 | 10 43 | 8 34 | 18 49 | 18 44 | 22 57 | | | n.a. |
| T 26 | 20 29 | 6 47 | 4 34 | 14 25 | 0 9 | 17 8 | 6 33 | 14 3 | 0 58 | 11 58 | 1 11 | 10 37 | 2 10 | 11 47 | 0 26 | 19 34 | 1 26 | 10 43 | 8 34 | 18 49 | 18 44 | 22 58 | | | n.a. |
| F 27 | 20 17 | 12 45 | 5 4 | 13 49 | 0 0 | 17 12 | 6 30 | 13 50 | 0 58 | 12 0 | 1 12 | 10 38 | 2 10 | 11 47 | 0 27 | 19 34 | 1 26 | 10 43 | 8 34 | 18 49 | 18 45 | 23 0 | | | n.a. |
| S 28 | 20 4 | 18 8 | 5 17 | 13 12 | 0s 8 | 17 16 | 6 26 | 13 36 | 0 57 | 12 2 | 1 12 | 10 39 | 2 9 | 11 47 | 0 27 | 19 34 | 1 26 | 10 44 | 8 35 | 18 49 | 18 46 | 23 1 | | | n.a. |
| S 29 | 19 51 | 22 34 | 5 10 | 12 36 | 0 16 | 17 20 | 6 22 | 13 22 | 0 57 | 12 4 | 1 12 | 10 40 | 2 9 | 11 47 | 0 27 | 19 34 | 1 26 | 10 44 | 8 35 | 18 49 | 18 47 | 23 3 | | | n.a. |
| M30 | 19 37 | 25 40 | 4 44 | 11 59 | 0 25 | 17 25 | 6 17 | 13 8 | 0 56 | 12 5 | 1 12 | 10 41 | 2 9 | 11 48 | 0 27 | 19 35 | 1 26 | 10 44 | 8 35 | 18 49 | 18 48 | 23 5 | | | n.a. |
| T 31 | 19n23 | 27s 6 | 3s59 | 11n23 | 0s34 | 17n30 | 6s12 | 12n54 | 0n56 | 12n 7 | 1s12 | 10s42 | 2n 9 | 11n48 | 0s27 | 19n35 | 1s26 | 10n44 | 8s35 | 18s49 | 18s48 | 23n 6 | | | n.a. |

Julian Day Number = 1693480.5, Delta T = 03h09m16s
Ecliptic obliquity = 23°42'21, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°07'14, Lahiri = - 5°00'14 Julian Calendar 1 July 77 BCE == Greg. Calendar 29 June 077 BCE

The year -76 astronomical counting style corresponds to year 077 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 77 BCE
# geocentric

## AUGUST 77 BCE (-76) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 20 28 1 | 5♌17'42 | 1♉59 | 0♍26 | 29♊12 | 29♌26 | 4♉50 | 3♏12 | 1♉45 | 2♊58 | 24♉18 | 6°R38 | 6♒38 | 21♉30 | n.a. | W 1 |
| T 2 | 20 31 58 | 6°15'46 | 16°15 | 1°43 | 29°32 | 0♍ 5 | 4°55 | 3°14 | 1°45 | 2°59 | 24°18 | 6°D38 | 6°35 | 21°37 | n.a. | T 2 |
| F 3 | 20 35 55 | 7°13'51 | 0♒19 | 2°59 | 29°53 | 0°44 | 5° 0 | 3°17 | 1°46 | 3° 1 | 24°19 | 6°R38 | 6°32 | 21°44 | n.a. | F 3 |
| S 4 | 20 39 51 | 8°11'58 | 14° 8 | 4°13 | 0♋16 | 1°23 | 5° 5 | 3°19 | 1°46 | 3° 2 | 24°19 | 6♒38 | 6°29 | 21°50 | n.a. | S 4 |
| S 5 | 20 43 48 | 9°10'07 | 27°40 | 5°24 | 0°41 | 2° 2 | 5° 9 | 3°21 | 1°46 | 3° 3 | 24°20 | 6°38 | 6°26 | 21°57 | n.a. | S 5 |
| M 6 | 20 47 44 | 10° 8'17 | 10♓51 | 6°34 | 1° 8 | 2°41 | 5°13 | 3°24 | 1°47 | 3° 4 | 24°20 | 6°38 | 6°23 | 22° 4 | n.a. | M 6 |
| T 7 | 20 51 41 | 11° 6'30 | 23°43 | 7°42 | 1°36 | 3°20 | 5°18 | 3°26 | 1°47 | 3° 5 | 24°21 | 6°37 | 6°19 | 22°11 | n.a. | T 7 |
| W 8 | 20 55 37 | 12° 4'45 | 6♈17 | 8°48 | 2° 5 | 3°59 | 5°22 | 3°29 | 1°47 | 3° 6 | 24°21 | 6°37 | 6°16 | 22°17 | n.a. | W 8 |
| T 9 | 20 59 34 | 13° 3'02 | 18°34 | 9°52 | 2°37 | 4°39 | 5°25 | 3°32 | 1°47 | 3° 7 | 24°22 | 6°36 | 6°13 | 22°24 | n.a. | T 9 |
| F 10 | 21 3 30 | 14° 1'21 | 0♉40 | 10°53 | 3° 9 | 5°18 | 5°29 | 3°35 | 1°R47 | 3° 8 | 24°22 | 6°36 | 6°10 | 22°31 | n.a. | F 10 |
| S 11 | 21 7 27 | 14°59'42 | 12°36 | 11°51 | 3°43 | 5°57 | 5°32 | 3°38 | 1°47 | 3° 9 | 24°22 | 6°D35 | 6° 7 | 22°37 | n.a. | S 11 |
| S 12 | 21 11 23 | 15°58'05 | 24°29 | 12°47 | 4°18 | 6°37 | 5°35 | 3°41 | 1°47 | 3°10 | 24°23 | 6°35 | 6° 4 | 22°44 | n.a. | S 12 |
| M13 | 21 15 20 | 16°56'31 | 6♊23 | 13°40 | 4°55 | 7°16 | 5°38 | 3°44 | 1°47 | 3°11 | 24°23 | 6°36 | 6° 0 | 22°51 | n.a. | M13 |
| T 14 | 21 19 17 | 17°54'59 | 18°22 | 14°30 | 5°33 | 7°56 | 5°41 | 3°47 | 1°47 | 3°12 | 24°23 | 6°37 | 5°57 | 22°58 | n.a. | T 14 |
| W15 | 21 23 13 | 18°53'29 | 0♋31 | 15°17 | 6°11 | 8°35 | 5°44 | 3°50 | 1°47 | 3°13 | 24°24 | 6°38 | 5°54 | 23° 4 | n.a. | W15 |
| T 16 | 21 27 10 | 19°52'02 | 12°53 | 16° 0 | 6°52 | 9°15 | 5°46 | 3°54 | 1°46 | 3°13 | 24°24 | 6°39 | 5°51 | 23°11 | n.a. | T 16 |
| F 17 | 21 31 6 | 20°50'36 | 25°31 | 16°39 | 7°33 | 9°55 | 5°48 | 3°57 | 1°46 | 3°14 | 24°24 | 6°40 | 5°48 | 23°18 | n.a. | F 17 |
| S 18 | 21 35 3 | 21°49'13 | 8♌27 | 17°14 | 8°15 | 10°35 | 5°51 | 4° 1 | 1°46 | 3°15 | 24°24 | 6°R40 | 5°44 | 23°24 | n.a. | S 18 |
| S 19 | 21 38 59 | 22°47'52 | 21°42 | 17°45 | 8°58 | 11°14 | 5°52 | 4° 4 | 1°45 | 3°16 | 24°24 | 6°40 | 5°41 | 23°31 | n.a. | S 19 |
| M20 | 21 42 56 | 23°46'32 | 5♍13 | 18°11 | 9°43 | 11°54 | 5°54 | 4° 8 | 1°45 | 3°16 | 24°25 | 6°38 | 5°38 | 23°38 | n.a. | M20 |
| T 21 | 21 46 52 | 24°45'15 | 19° 0 | 18°32 | 10°28 | 12°34 | 5°55 | 4°12 | 1°44 | 3°17 | 24°25 | 6°36 | 5°35 | 23°45 | n.a. | T 21 |
| W22 | 21 50 49 | 25°44'00 | 3♎ 0 | 18°48 | 11°14 | 13°14 | 5°57 | 4°15 | 1°44 | 3°18 | 24°25 | 6°34 | 5°32 | 23°51 | n.a. | W22 |
| T 23 | 21 54 46 | 26°42'46 | 17° 9 | 18°57 | 12° 1 | 13°54 | 5°58 | 4°19 | 1°43 | 3°18 | 24°25 | 6°31 | 5°29 | 23°58 | n.a. | T 23 |
| F 24 | 21 58 42 | 27°41'35 | 1♏22 | 19°R 1 | 12°49 | 14°34 | 5°59 | 4°23 | 1°42 | 3°19 | 24°25 | 6°29 | 5°25 | 24° 5 | n.a. | F 24 |
| S 25 | 22 2 39 | 28°40'25 | 15°37 | 18°57 | 13°37 | 15°14 | 5°59 | 4°27 | 1°41 | 3°19 | 24°25 | 6°27 | 5°22 | 24°11 | n.a. | S 25 |
| S 26 | 22 6 35 | 29°39'17 | 29°51 | 18°47 | 14°27 | 15°54 | 6° 0 | 4°32 | 1°41 | 3°20 | 24°25 | 6°D27 | 5°19 | 24°18 | n.a. | S 26 |
| M27 | 22 10 32 | 0♍38'11 | 14♐ 1 | 18°30 | 15°17 | 16°34 | 6° 0 | 4°36 | 1°40 | 3°20 | 24°25 | 6°27 | 5°16 | 24°25 | n.a. | M27 |
| T 28 | 22 14 28 | 1°37'07 | 28° 5 | 18° 5 | 16° 8 | 17°15 | 6°R 0 | 4°40 | 1°39 | 3°20 | 24°R25 | 6°29 | 5°13 | 24°32 | n.a. | T 28 |
| W29 | 22 18 25 | 2°36'05 | 12♑ 1 | 17°33 | 16°59 | 17°55 | 6° 0 | 4°45 | 1°38 | 3°21 | 24°25 | 6°30 | 5° 9 | 24°38 | n.a. | W29 |
| T 30 | 22 22 21 | 3°35'04 | 25°49 | 16°54 | 17°52 | 18°35 | 6° 0 | 4°49 | 1°37 | 3°21 | 24°25 | 6°31 | 5° 6 | 24°45 | n.a. | T 30 |
| F 31 | 22 26 18 | 4♍34'06 | 9♒26 | 16♍ 7 | 18♋45 | 19♍16 | 5♉59 | 4♏54 | 1♉36 | 3♊22 | 24♉25 | 6°R32 | 5♒ 3 | 24♉52 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| W 1 | 19n 9 | 26s42 | 3s 1 | 10n47 | 0s42 | 17n35 | 6s 7 | 12n40 | 0n55 | 12n 9 | 1s12 | 10s43 | 2n 8 | 11n48 | 0s27 | 19n35 | 1s26 | 10n44 | 8s35 | 18s49 | 18s49 | 23n 8 | | | n.a. |
| T 2 | 18 55 | 24 32 | 1 51 | 10 11 | 0 51 | 17 40 | 6 2 | 12 25 | 0 55 | 12 10 | 1 12 | 10 43 | 2 8 | 11 48 | 0 27 | 19 35 | 1 26 | 10 44 | 8 35 | 18 49 | 18 50 | 23 10 | | | n.a. |
| F 3 | 18 40 | 20 53 | 0 35 | 9 35 | 1 0 | 17 46 | 5 57 | 12 11 | 0 54 | 12 12 | 1 13 | 10 44 | 2 8 | 11 48 | 0 27 | 19 35 | 1 26 | 10 44 | 8 35 | 18 49 | 18 51 | 23 11 | | | n.a. |
| S 4 | 18 25 | 16 7 | 0n41 | 9 0 | 1 10 | 17 51 | 5 51 | 11 56 | 0 54 | 12 13 | 1 13 | 10 46 | 2 8 | 11 48 | 0 27 | 19 36 | 1 26 | 10 44 | 8 36 | 18 49 | 18 52 | 23 13 | | | n.a. |
| S 5 | 18 10 | 10 38 | 1 54 | 8 25 | 1 19 | 17 57 | 5 45 | 11 42 | 0 53 | 12 14 | 1 13 | 10 47 | 2 7 | 11 48 | 0 27 | 19 36 | 1 26 | 10 44 | 8 36 | 18 49 | 18 52 | 23 14 | | | n.a. |
| M 6 | 17 54 | 4 50 | 2 58 | 7 50 | 1 28 | 18 3 | 5 40 | 11 27 | 0 53 | 12 16 | 1 13 | 10 48 | 2 7 | 11 48 | 0 27 | 19 36 | 1 26 | 10 44 | 8 36 | 18 49 | 18 53 | 23 16 | | | n.a. |
| T 7 | 17 38 | 1n 2 | 3 52 | 7 16 | 1 37 | 18 8 | 5 33 | 11 12 | 0 52 | 12 17 | 1 13 | 10 49 | 2 7 | 11 48 | 0 27 | 19 36 | 1 26 | 10 43 | 8 36 | 18 49 | 18 54 | 23 17 | | | n.a. |
| W 8 | 17 22 | 6 42 | 4 33 | 6 43 | 1 46 | 18 14 | 5 27 | 10 58 | 0 52 | 12 18 | 1 13 | 10 50 | 2 7 | 11 49 | 0 27 | 19 36 | 1 26 | 10 43 | 8 36 | 18 50 | 18 55 | 23 19 | | | n.a. |
| T 9 | 17 5 | 11 59 | 5 1 | 6 11 | 1 55 | 18 20 | 5 21 | 10 43 | 0 51 | 12 19 | 1 14 | 10 51 | 2 6 | 11 49 | 0 27 | 19 36 | 1 26 | 10 43 | 8 36 | 18 50 | 18 56 | 23 21 | | | n.a. |
| F 10 | 16 48 | 16 44 | 5 15 | 5 39 | 2 5 | 18 25 | 5 15 | 10 28 | 0 51 | 12 20 | 1 14 | 10 52 | 2 6 | 11 49 | 0 27 | 19 37 | 1 26 | 10 43 | 8 36 | 18 50 | 18 56 | 23 22 | | | n.a. |
| S 11 | 16 31 | 20 47 | 5 15 | 5 8 | 2 14 | 18 31 | 5 8 | 10 12 | 0 50 | 12 21 | 1 14 | 10 54 | 2 6 | 11 49 | 0 27 | 19 37 | 1 26 | 10 43 | 8 37 | 18 50 | 18 57 | 23 24 | | | n.a. |
| S 12 | 16 14 | 23 58 | 5 1 | 4 38 | 2 23 | 18 36 | 5 2 | 9 57 | 0 50 | 12 22 | 1 14 | 10 55 | 2 6 | 11 48 | 0 27 | 19 37 | 1 26 | 10 43 | 8 37 | 18 50 | 18 58 | 23 25 | | | n.a. |
| M13 | 15 56 | 26 8 | 4 35 | 4 10 | 2 32 | 18 42 | 4 55 | 9 42 | 0 49 | 12 23 | 1 14 | 10 56 | 2 5 | 11 48 | 0 27 | 19 37 | 1 26 | 10 43 | 8 37 | 18 50 | 18 59 | 23 27 | | | n.a. |
| T 14 | 15 38 | 27 7 | 3 56 | 3 42 | 2 40 | 18 47 | 4 49 | 9 27 | 0 49 | 12 24 | 1 14 | 10 57 | 2 5 | 11 48 | 0 27 | 19 37 | 1 26 | 10 43 | 8 37 | 18 50 | 19 0 | 23 28 | | | n.a. |
| W15 | 15 20 | 26 49 | 3 7 | 3 16 | 2 49 | 18 52 | 4 42 | 9 11 | 0 48 | 12 25 | 1 14 | 10 59 | 2 5 | 11 48 | 0 27 | 19 37 | 1 26 | 10 43 | 8 37 | 18 49 | 19 0 | 23 30 | | | n.a. |
| T 16 | 15 1 | 25 12 | 2 8 | 2 52 | 2 57 | 18 57 | 4 35 | 8 56 | 0 48 | 12 25 | 1 15 | 11 0 | 2 5 | 11 48 | 0 27 | 19 37 | 1 26 | 10 43 | 8 37 | 18 49 | 19 1 | 23 31 | | | n.a. |
| F 17 | 14 42 | 22 17 | 1 1 | 2 29 | 3 5 | 19 1 | 4 28 | 8 40 | 0 47 | 12 26 | 1 15 | 11 1 | 2 5 | 11 48 | 0 27 | 19 37 | 1 26 | 10 43 | 8 37 | 18 49 | 19 2 | 23 33 | | | n.a. |
| S 18 | 14 23 | 18 12 | 0s10 | 2 9 | 3 13 | 19 6 | 4 22 | 8 24 | 0 47 | 12 26 | 1 15 | 11 3 | 2 4 | 11 48 | 0 27 | 19 38 | 1 26 | 10 43 | 8 38 | 18 49 | 19 3 | 23 34 | | | n.a. |
| S 19 | 14 4 | 13 8 | 1 22 | 1 50 | 3 20 | 19 10 | 4 15 | 8 9 | 0 46 | 12 27 | 1 15 | 11 4 | 2 4 | 11 48 | 0 27 | 19 38 | 1 26 | 10 43 | 8 38 | 18 49 | 19 4 | 23 36 | | | n.a. |
| M20 | 13 45 | 7 22 | 2 31 | 1 33 | 3 26 | 19 13 | 4 8 | 7 53 | 0 46 | 12 27 | 1 15 | 11 6 | 2 4 | 11 48 | 0 27 | 19 38 | 1 26 | 10 43 | 8 38 | 18 49 | 19 4 | 23 37 | | | n.a. |
| T 21 | 13 25 | 1 9 | 3 33 | 1 20 | 3 33 | 19 17 | 4 1 | 7 37 | 0 45 | 12 28 | 1 15 | 11 7 | 2 4 | 11 47 | 0 27 | 19 38 | 1 27 | 10 43 | 8 38 | 18 50 | 19 5 | 23 39 | | | n.a. |
| W22 | 13 5 | 5s13 | 4 22 | 1 8 | 3 38 | 19 20 | 3 54 | 7 21 | 0 45 | 12 28 | 1 16 | 11 9 | 2 3 | 11 47 | 0 27 | 19 38 | 1 27 | 10 42 | 8 38 | 18 50 | 19 6 | 23 40 | | | n.a. |
| T 23 | 12 45 | 11 22 | 4 57 | 1 0 | 3 43 | 19 23 | 3 47 | 7 5 | 0 44 | 12 28 | 1 16 | 11 10 | 2 3 | 11 47 | 0 27 | 19 38 | 1 27 | 10 42 | 8 38 | 18 51 | 19 7 | 23 42 | | | n.a. |
| F 24 | 12 24 | 16 58 | 5 13 | 0 55 | 3 47 | 19 25 | 3 40 | 6 49 | 0 44 | 12 28 | 1 16 | 11 12 | 2 3 | 11 47 | 0 27 | 19 38 | 1 27 | 10 42 | 8 38 | 18 52 | 19 7 | 23 43 | | | n.a. |
| S 25 | 12 4 | 21 38 | 5 10 | 0 54 | 3 50 | 19 28 | 3 34 | 6 33 | 0 43 | 12 28 | 1 16 | 11 13 | 2 3 | 11 46 | 0 27 | 19 38 | 1 27 | 10 42 | 8 39 | 18 52 | 19 8 | 23 45 | | | n.a. |
| S 26 | 11 43 | 25 2 | 4 49 | 0 56 | 3 52 | 19 29 | 3 27 | 6 17 | 0 43 | 12 28 | 1 16 | 11 15 | 2 3 | 11 46 | 0 27 | 19 38 | 1 27 | 10 42 | 8 39 | 18 52 | 19 9 | 23 46 | | | n.a. |
| M27 | 11 22 | 26 52 | 4 10 | 1 2 | 3 52 | 19 31 | 3 20 | 6 0 | 0 42 | 12 28 | 1 16 | 11 17 | 2 2 | 11 46 | 0 27 | 19 38 | 1 27 | 10 42 | 8 39 | 18 52 | 19 10 | 23 47 | | | n.a. |
| T 28 | 11 1 | 26 57 | 3 16 | 1 13 | 3 51 | 19 32 | 3 13 | 5 44 | 0 42 | 12 28 | 1 17 | 11 18 | 2 2 | 11 45 | 0 27 | 19 38 | 1 27 | 10 42 | 8 39 | 18 52 | 19 11 | 23 49 | | | n.a. |
| W29 | 10 40 | 25 19 | 2 10 | 1 28 | 3 49 | 19 32 | 3 6 | 5 28 | 0 41 | 12 28 | 1 17 | 11 20 | 2 2 | 11 45 | 0 27 | 19 38 | 1 27 | 10 41 | 8 39 | 18 51 | 19 11 | 23 50 | | | n.a. |
| T 30 | 10 18 | 22 10 | 0 58 | 1 47 | 3 45 | 19 32 | 2 59 | 5 11 | 0 41 | 12 28 | 1 17 | 11 22 | 2 2 | 11 45 | 0 27 | 19 38 | 1 27 | 10 41 | 8 39 | 18 51 | 19 12 | 23 52 | | | n.a. |
| F 31 | 9n57 | 17s50 | 0n16 | 2n10 | 3s39 | 19n32 | 2s53 | 4n55 | 0n40 | 12n27 | 1s17 | 11s23 | 2n 1 | 11n44 | 0s27 | 19n38 | 1s27 | 10n41 | 8s39 | 18s51 | 19s13 | 23n53 | | | n.a. |

Julian Day Number = 1693511.5, Delta T = 03h09m15s
Ecliptic obliquity = 23°42'21, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°07'10, Lahiri = - 5°00'10 Julian Calendar 1 Aug. 77 BCE == Greg. Calendar 30 July 077 BCE

The year -76 astronomical counting style corresponds to year 077 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 77 BCE
# geocentric

## SEPTEMBER 77 BCE (-76) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 22 30 15 | 5♍33'09 | 22♒52 | 15°R14 | 19♋38 | 19♍56 | 5°R58 | 4♏58 | 1°R35 | 3♊22 | 24°R25 | 6°R31 | 5♒ 0 | 24♉58 | n.a. | S 1 |
| S 2 | 22 34 11 | 6°32'14 | 6♓ 4 | 14♍15 | 20°33 | 20°36 | 5♉57 | 5° 3 | 1♉34 | 3°22 | 24♉25 | 6♒28 | 4°57 | 25° 5 | n.a. | S 2 |
| M 3 | 22 38 8 | 7°31'22 | 19° 2 | 13°11 | 21°28 | 21°17 | 5°56 | 5° 8 | 1°33 | 3°22 | 24°25 | 6°24 | 4°54 | 25°12 | n.a. | M 3 |
| T 4 | 22 42 4 | 8°30'31 | 1♈46 | 12° 3 | 22°23 | 21°57 | 5°55 | 5°12 | 1°32 | 3°22 | 24°25 | 6°19 | 4°50 | 25°19 | n.a. | T 4 |
| W 5 | 22 46 1 | 9°29'43 | 14°14 | 10°54 | 23°19 | 22°38 | 5°53 | 5°17 | 1°30 | 3°23 | 24°24 | 6°13 | 4°47 | 25°25 | n.a. | W 5 |
| T 6 | 22 49 57 | 10°28'58 | 26°29 | 9°44 | 24°16 | 23°19 | 5°52 | 5°22 | 1°29 | 3°23 | 24°24 | 6° 7 | 4°44 | 25°32 | n.a. | T 6 |
| F 7 | 22 53 54 | 11°28'14 | 8♉33 | 8°36 | 25°13 | 23°59 | 5°50 | 5°27 | 1°28 | 3°23 | 24°24 | 6° 2 | 4°41 | 25°39 | n.a. | F 7 |
| S 8 | 22 57 50 | 12°27'33 | 20°30 | 7°32 | 26°10 | 24°40 | 5°47 | 5°32 | 1°26 | 3°23 | 24°24 | 5°58 | 4°38 | 25°45 | n.a. | S 8 |
| S 9 | 23 1 47 | 13°26'55 | 2♊21 | 6°33 | 27° 9 | 25°21 | 5°45 | 5°37 | 1°25 | 3°R23 | 24°24 | 5°56 | 4°35 | 25°52 | n.a. | S 9 |
| M10 | 23 5 43 | 14°26'19 | 14°14 | 5°41 | 28° 7 | 26° 2 | 5°43 | 5°43 | 1°24 | 3°23 | 24°23 | 5°D55 | 4°31 | 25°59 | n.a. | M10 |
| T 11 | 23 9 40 | 15°25'45 | 26°11 | 4°57 | 29° 6 | 26°43 | 5°40 | 5°48 | 1°22 | 3°23 | 24°23 | 5°56 | 4°28 | 26° 6 | n.a. | T 11 |
| W12 | 23 13 37 | 16°25'14 | 8♋19 | 4°24 | 0♌ 6 | 27°24 | 5°37 | 5°53 | 1°21 | 3°23 | 24°23 | 5°57 | 4°25 | 26°12 | n.a. | W12 |
| T 13 | 23 17 33 | 17°24'45 | 20°43 | 4° 0 | 1° 6 | 28° 5 | 5°34 | 5°58 | 1°19 | 3°23 | 24°22 | 5°59 | 4°22 | 26°19 | n.a. | T 13 |
| F 14 | 23 21 30 | 18°24'18 | 3♌25 | 3°48 | 2° 6 | 28°46 | 5°30 | 6° 4 | 1°17 | 3°22 | 24°22 | 6°R 0 | 4°19 | 26°26 | n.a. | F 14 |
| S 15 | 23 25 26 | 19°23'54 | 16°30 | 3°D46 | 3° 7 | 29°27 | 5°27 | 6° 9 | 1°16 | 3°22 | 24°22 | 5°59 | 4°15 | 26°32 | n.a. | S 15 |
| S 16 | 23 29 23 | 20°23'32 | 29°59 | 3°56 | 4° 9 | 0♎ 8 | 5°23 | 6°15 | 1°14 | 3°22 | 24°21 | 5°57 | 4°12 | 26°39 | n.a. | S 16 |
| M17 | 23 33 19 | 21°23'12 | 13♍52 | 4°16 | 5°10 | 0°49 | 5°19 | 6°21 | 1°12 | 3°22 | 24°21 | 5°52 | 4° 9 | 26°46 | n.a. | M17 |
| T 18 | 23 37 16 | 22°22'55 | 28° 5 | 4°46 | 6°12 | 1°31 | 5°15 | 6°26 | 1°10 | 3°21 | 24°20 | 5°46 | 4° 6 | 26°53 | n.a. | T 18 |
| W19 | 23 41 12 | 23°22'39 | 12♎34 | 5°25 | 7°15 | 2°12 | 5°11 | 6°32 | 1° 9 | 3°21 | 24°20 | 5°38 | 4° 3 | 26°59 | n.a. | W19 |
| T 20 | 23 45 9 | 24°22'25 | 27°11 | 6°13 | 8°17 | 2°53 | 5° 6 | 6°38 | 1° 7 | 3°21 | 24°19 | 5°30 | 4° 0 | 27° 6 | n.a. | T 20 |
| F 21 | 23 49 6 | 25°22'14 | 11♏50 | 7° 8 | 9°20 | 3°35 | 5° 2 | 6°44 | 1° 5 | 3°20 | 24°19 | 5°23 | 3°56 | 27°13 | n.a. | F 21 |
| S 22 | 23 53 2 | 26°22'04 | 26°24 | 8°11 | 10°24 | 4°16 | 4°57 | 6°49 | 1° 3 | 3°20 | 24°18 | 5°18 | 3°53 | 27°19 | n.a. | S 22 |
| S 23 | 23 56 59 | 27°21'56 | 10♐47 | 9°19 | 11°28 | 4°58 | 4°52 | 6°55 | 1° 1 | 3°19 | 24°18 | 5°14 | 3°50 | 27°26 | n.a. | S 23 |
| M24 | 0 0 55 | 28°21'50 | 24°56 | 10°33 | 12°32 | 5°39 | 4°47 | 7° 1 | 0°59 | 3°19 | 24°17 | 5°D13 | 3°47 | 27°33 | n.a. | M24 |
| T 25 | 0 4 52 | 29°21'46 | 8♑51 | 11°52 | 13°36 | 6°21 | 4°42 | 7° 7 | 0°57 | 3°18 | 24°16 | 5°13 | 3°44 | 27°40 | n.a. | T 25 |
| W26 | 0 8 48 | 0♎21'43 | 22°31 | 13°14 | 14°41 | 7° 3 | 4°36 | 7°13 | 0°55 | 3°18 | 24°16 | 5°14 | 3°41 | 27°46 | n.a. | W26 |
| T 27 | 0 12 45 | 1°21'42 | 5♒58 | 14°40 | 15°46 | 7°45 | 4°30 | 7°20 | 0°53 | 3°17 | 24°15 | 5°R15 | 3°37 | 27°53 | n.a. | T 27 |
| F 28 | 0 16 41 | 2°21'43 | 19°11 | 16° 8 | 16°51 | 8°26 | 4°25 | 7°26 | 0°51 | 3°17 | 24°15 | 5°14 | 3°34 | 28° 0 | n.a. | F 28 |
| S 29 | 0 20 38 | 3°21'45 | 2♓13 | 17°39 | 17°56 | 9° 8 | 4°19 | 7°32 | 0°49 | 3°16 | 24°14 | 5°11 | 3°31 | 28° 6 | n.a. | S 29 |
| S 30 | 0 24 35 | 4♎21'49 | 15♓ 4 | 19♍11 | 19♌ 2 | 9♎50 | 4♉13 | 7♏38 | 0♉47 | 3♊15 | 24♉13 | 5♒ 5 | 3♒28 | 28♉13 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | | |
| S 1 | 9n35 | 12s39 | 1n28 | 2n38 | 3s31 | 19n31 | 2s46 | 4n38 | 0n40 | 12n27 | 1s17 | 11s25 | 2n 1 | 11n44 | 0s27 | 19n38 | 1s27 | 10n41 | 8s40 | 18s51 | 19s14 | 23n54 | | n.a. | | S 1 |
| S 2 | 9 13 | 7 0 | 2 35 | 3 10 | 3 22 | 19 30 | 2 39 | 4 22 | 0 39 | 12 26 | 1 17 | 11 27 | 2 1 | 11 44 | 0 27 | 19 38 | 1 27 | 10 41 | 8 40 | 18 52 | 19 14 | 23 56 | | n.a. | | S 2 |
| M 3 | 8 51 | 1 9 | 3 31 | 3 46 | 3 10 | 19 28 | 2 32 | 4 5 | 0 39 | 12 26 | 1 17 | 11 29 | 2 1 | 11 43 | 0 27 | 19 38 | 1 27 | 10 41 | 8 40 | 18 53 | 19 15 | 23 57 | | n.a. | | M 3 |
| T 4 | 8 28 | 4n37 | 4 17 | 4 25 | 2 56 | 19 26 | 2 26 | 3 48 | 0 38 | 12 25 | 1 18 | 11 31 | 2 1 | 11 43 | 0 27 | 19 38 | 1 27 | 10 40 | 8 40 | 18 54 | 19 16 | 23 59 | | n.a. | | T 4 |
| W 5 | 8 6 | 10 6 | 4 49 | 5 5 | 2 41 | 19 23 | 2 19 | 3 32 | 0 38 | 12 25 | 1 18 | 11 32 | 2 0 | 11 42 | 0 27 | 19 38 | 1 27 | 10 40 | 8 40 | 18 56 | 19 17 | 24 0 | | n.a. | | W 5 |
| T 6 | 7 43 | 15 5 | 5 7 | 5 48 | 2 23 | 19 20 | 2 13 | 3 15 | 0 37 | 12 24 | 1 18 | 11 34 | 2 0 | 11 42 | 0 27 | 19 38 | 1 27 | 10 40 | 8 40 | 18 57 | 19 18 | 24 1 | | n.a. | | T 6 |
| F 7 | 7 20 | 19 24 | 5 11 | 6 30 | 2 5 | 19 16 | 2 6 | 2 58 | 0 37 | 12 23 | 1 18 | 11 36 | 2 0 | 11 41 | 0 27 | 19 38 | 1 27 | 10 40 | 8 40 | 18 58 | 19 18 | 24 3 | | n.a. | | F 7 |
| S 8 | 6 58 | 22 54 | 5 1 | 7 13 | 1 46 | 19 12 | 2 0 | 2 41 | 0 36 | 12 22 | 1 18 | 11 38 | 2 0 | 11 41 | 0 27 | 19 38 | 1 27 | 10 40 | 8 41 | 18 59 | 19 19 | 24 4 | | n.a. | | S 8 |
| S 9 | 6 35 | 25 25 | 4 39 | 7 53 | 1 25 | 19 7 | 1 53 | 2 25 | 0 35 | 12 21 | 1 18 | 11 40 | 2 0 | 11 40 | 0 27 | 19 38 | 1 27 | 10 40 | 8 41 | 19 0 | 19 20 | 24 5 | | n.a. | | S 9 |
| M10 | 6 12 | 26 48 | 4 4 | 8 31 | 1 5 | 19 2 | 1 47 | 2 8 | 0 35 | 12 21 | 1 18 | 11 42 | 1 59 | 11 40 | 0 27 | 19 38 | 1 27 | 10 39 | 8 41 | 19 0 | 19 21 | 24 7 | | n.a. | | M10 |
| T 11 | 5 48 | 26 58 | 3 19 | 9 6 | 0 45 | 18 56 | 1 40 | 1 51 | 0 34 | 12 19 | 1 18 | 11 44 | 1 59 | 11 39 | 0 27 | 19 38 | 1 27 | 10 39 | 8 41 | 19 0 | 19 21 | 24 8 | | n.a. | | T 11 |
| W12 | 5 25 | 25 51 | 2 24 | 9 37 | 0 25 | 18 49 | 1 34 | 1 34 | 0 34 | 12 18 | 1 19 | 11 46 | 1 59 | 11 39 | 0 27 | 19 38 | 1 27 | 10 39 | 8 41 | 19 0 | 19 22 | 24 9 | | n.a. | | W12 |
| T 13 | 5 2 | 23 26 | 1 22 | 10 3 | 0 6 | 18 42 | 1 28 | 1 17 | 0 33 | 12 17 | 1 19 | 11 48 | 1 59 | 11 38 | 0 27 | 19 38 | 1 27 | 10 39 | 8 41 | 18 59 | 19 23 | 24 11 | | n.a. | | T 13 |
| F 14 | 4 38 | 19 50 | 0 14 | 10 25 | 0n12 | 18 35 | 1 22 | 1 0 | 0 33 | 12 16 | 1 19 | 11 50 | 1 59 | 11 38 | 0 27 | 19 38 | 1 27 | 10 38 | 8 41 | 18 59 | 19 24 | 24 12 | | n.a. | | F 14 |
| S 15 | 4 15 | 15 10 | 0s57 | 10 41 | 0 29 | 18 27 | 1 16 | 0 43 | 0 32 | 12 15 | 1 19 | 11 51 | 1 59 | 11 37 | 0 27 | 19 38 | 1 28 | 10 38 | 8 42 | 18 59 | 19 24 | 24 13 | | n.a. | | S 15 |
| S 16 | 3 51 | 9 38 | 2 6 | 10 52 | 0 44 | 18 18 | 1 10 | 0 26 | 0 32 | 12 13 | 1 19 | 11 53 | 1 58 | 11 37 | 0 27 | 19 38 | 1 28 | 10 38 | 8 42 | 19 0 | 19 25 | 24 15 | | n.a. | | S 16 |
| M17 | 3 27 | 3 30 | 3 10 | 10 58 | 0 59 | 18 9 | 1 4 | 0 9 | 0 31 | 12 12 | 1 19 | 11 56 | 1 58 | 11 36 | 0 27 | 19 38 | 1 28 | 10 38 | 8 42 | 19 1 | 19 26 | 24 16 | | n.a. | | M17 |
| T 18 | 3 3 | 2s57 | 4 3 | 10 58 | 1 11 | 18 0 | 0 58 | 0s 9 | 0 30 | 12 11 | 1 19 | 11 58 | 1 58 | 11 35 | 0 27 | 19 38 | 1 28 | 10 38 | 8 42 | 19 2 | 19 27 | 24 17 | | n.a. | | T 18 |
| W19 | 2 39 | 9 21 | 4 42 | 10 54 | 1 22 | 17 50 | 0 52 | 0 26 | 0 30 | 12 9 | 1 19 | 12 0 | 1 58 | 11 35 | 0 27 | 19 38 | 1 28 | 10 37 | 8 42 | 19 4 | 19 28 | 24 19 | | n.a. | | W19 |
| T 20 | 2 16 | 15 17 | 5 4 | 10 45 | 1 32 | 17 39 | 0 46 | 0 43 | 0 29 | 12 7 | 1 19 | 12 2 | 1 58 | 11 34 | 0 27 | 19 37 | 1 28 | 10 37 | 8 42 | 19 6 | 19 28 | 24 20 | | n.a. | | T 20 |
| F 21 | 1 52 | 20 23 | 5 5 | 10 32 | 1 40 | 17 28 | 0 41 | 1 0 | 0 29 | 12 6 | 1 19 | 12 4 | 1 58 | 11 33 | 0 27 | 19 37 | 1 28 | 10 37 | 8 42 | 19 8 | 19 29 | 24 21 | | n.a. | | F 21 |
| S 22 | 1 28 | 24 12 | 4 46 | 10 15 | 1 47 | 17 16 | 0 35 | 1 17 | 0 28 | 12 4 | 1 20 | 12 6 | 1 57 | 11 33 | 0 27 | 19 37 | 1 28 | 10 37 | 8 42 | 19 9 | 19 30 | 24 22 | | n.a. | | S 22 |
| S 23 | 1 4 | 26 26 | 4 10 | 9 54 | 1 53 | 17 4 | 0 30 | 1 34 | 0 28 | 12 2 | 1 20 | 12 8 | 1 57 | 11 32 | 0 27 | 19 37 | 1 28 | 10 36 | 8 43 | 19 10 | 19 31 | 24 24 | | n.a. | | S 23 |
| M24 | 0 39 | 26 55 | 3 19 | 9 30 | 1 57 | 16 51 | 0 24 | 1 51 | 0 27 | 12 0 | 1 20 | 12 10 | 1 57 | 11 31 | 0 27 | 19 37 | 1 28 | 10 36 | 8 43 | 19 10 | 19 31 | 24 25 | | n.a. | | M24 |
| T 25 | 0 15 | 25 41 | 2 17 | 9 2 | 2 0 | 16 37 | 0 19 | 2 9 | 0 27 | 11 59 | 1 20 | 12 12 | 1 57 | 11 31 | 0 27 | 19 37 | 1 28 | 10 36 | 8 43 | 19 10 | 19 32 | 24 26 | | n.a. | | T 25 |
| W26 | 0s 9 | 22 55 | 1 8 | 8 32 | 2 2 | 16 24 | 0 14 | 2 26 | 0 26 | 11 57 | 1 20 | 12 14 | 1 57 | 11 30 | 0 27 | 19 37 | 1 28 | 10 36 | 8 43 | 19 10 | 19 33 | 24 27 | | n.a. | | W26 |
| T 27 | 0 33 | 18 56 | 0n 4 | 8 0 | 2 4 | 16 9 | 0 9 | 2 43 | 0 25 | 11 55 | 1 20 | 12 16 | 1 57 | 11 29 | 0 27 | 19 36 | 1 28 | 10 35 | 8 43 | 19 10 | 19 34 | 24 28 | | n.a. | | T 27 |
| F 28 | 0 57 | 14 4 | 1 14 | 7 26 | 2 4 | 15 54 | 0 3 | 3 0 | 0 25 | 11 53 | 1 20 | 12 19 | 1 56 | 11 28 | 0 27 | 19 36 | 1 28 | 10 35 | 8 43 | 19 10 | 19 34 | 24 30 | | n.a. | | F 28 |
| S 29 | 1 21 | 8 38 | 2 19 | 6 50 | 2 3 | 15 39 | 0n 2 | 3 17 | 0 24 | 11 51 | 1 20 | 12 21 | 1 56 | 11 28 | 0 27 | 19 36 | 1 28 | 10 35 | 8 43 | 19 11 | 19 35 | 24 31 | | n.a. | | S 29 |
| S 30 | 1s45 | 2s56 | 3n16 | 6n12 | 2n 2 | 15n23 | 0n 6 | 3s35 | 0n24 | 11n49 | 1s20 | 12s23 | 1n56 | 11n27 | 0s27 | 19n36 | 1s28 | 10n35 | 8s43 | 19s13 | 19s36 | 24n32 | | n.a. | | S 30 |

Julian Day Number = 1693542.5, Delta T = 03h09m14s
Ecliptic obliquity = 23°42'21, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°07'06, Lahiri = - 5°00'05 Julian Calendar 1 Sept. 77 BCE == Greg. Calendar 30 Aug. 077 BCE

The year -76 astronomical counting style corresponds to year 077 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 77 BCE
# geocentric

## OCTOBER 77 BCE (-76) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 0 28 31 | 5♎21'55 | 27♓44 | 20♍45 | 20♌ 8 | 10♎32 | 4°R 6 | 7♏44 | 0°R44 | 3°R15 | 24°R13 | 4°R56 | 3♒25 | 28♉20 | n.a. | M 1 |
| T 2 | 0 32 28 | 6°22'03 | 10♈13 | 22°21 | 21°14 | 11°14 | 4♉ 0 | 7°51 | 0♉42 | 3♊14 | 24♉12 | 4♒45 | 3°21 | 28°27 | n.a. | T 2 |
| W 3 | 0 36 24 | 7°22'13 | 22°32 | 23°57 | 22°21 | 11°56 | 3°53 | 7°57 | 0°40 | 3°13 | 24°11 | 4°33 | 3°18 | 28°33 | n.a. | W 3 |
| T 4 | 0 40 21 | 8°22'25 | 4♉41 | 25°34 | 23°28 | 12°38 | 3°47 | 8° 3 | 0°38 | 3°12 | 24°10 | 4°21 | 3°15 | 28°40 | n.a. | T 4 |
| F 5 | 0 44 17 | 9°22'39 | 16°42 | 27°11 | 24°35 | 13°20 | 3°40 | 8°10 | 0°35 | 3°11 | 24°10 | 4°10 | 3°12 | 28°47 | n.a. | F 5 |
| S 6 | 0 48 14 | 10°22'55 | 28°35 | 28°49 | 25°42 | 14° 2 | 3°33 | 8°16 | 0°33 | 3°11 | 24° 9 | 4° 0 | 3° 9 | 28°53 | n.a. | S 6 |
| S 7 | 0 52 10 | 11°23'13 | 10♊25 | 0♎27 | 26°50 | 14°45 | 3°26 | 8°23 | 0°31 | 3°10 | 24° 8 | 3°53 | 3° 6 | 29° 0 | n.a. | S 7 |
| M 8 | 0 56 7 | 12°23'33 | 22°16 | 2° 5 | 27°57 | 15°27 | 3°19 | 8°29 | 0°28 | 3° 9 | 24° 7 | 3°49 | 3° 2 | 29° 7 | n.a. | M 8 |
| T 9 | 1 0 3 | 13°23'56 | 4♋10 | 3°43 | 29° 5 | 16° 9 | 3°12 | 8°36 | 0°26 | 3° 8 | 24° 6 | 3°47 | 2°59 | 29°13 | n.a. | T 9 |
| W10 | 1 4 0 | 14°24'20 | 16°15 | 5°22 | 0♍14 | 16°52 | 3° 4 | 8°43 | 0°24 | 3° 7 | 24° 5 | 3°D46 | 2°56 | 29°20 | n.a. | W10 |
| T 11 | 1 7 57 | 15°24'46 | 28°34 | 7° 0 | 1°22 | 17°34 | 2°57 | 8°49 | 0°21 | 3° 6 | 24° 5 | 3°R46 | 2°53 | 29°27 | n.a. | T 11 |
| F 12 | 1 11 53 | 16°25'15 | 11♌14 | 8°38 | 2°31 | 18°17 | 2°49 | 8°56 | 0°19 | 3° 5 | 24° 4 | 3°46 | 2°50 | 29°34 | n.a. | F 12 |
| S 13 | 1 15 50 | 17°25'45 | 24°18 | 10°15 | 3°39 | 18°59 | 2°42 | 9° 3 | 0°16 | 3° 4 | 24° 3 | 3°45 | 2°46 | 29°40 | n.a. | S 13 |
| S 14 | 1 19 46 | 18°26'17 | 7♍51 | 11°53 | 4°48 | 19°42 | 2°34 | 9° 9 | 0°14 | 3° 3 | 24° 2 | 3°41 | 2°43 | 29°47 | n.a. | S 14 |
| M15 | 1 23 43 | 19°26'51 | 21°52 | 13°30 | 5°57 | 20°24 | 2°26 | 9°16 | 0°12 | 3° 1 | 24° 1 | 3°34 | 2°40 | 29°54 | n.a. | M15 |
| T 16 | 1 27 39 | 20°27'27 | 6♎20 | 15° 7 | 7° 7 | 21° 7 | 2°19 | 9°23 | 0° 9 | 3° 0 | 24° 0 | 3°24 | 2°37 | 0♊ 0 | n.a. | T 16 |
| W17 | 1 31 36 | 21°28'05 | 21°10 | 16°44 | 8°16 | 21°50 | 2°11 | 9°30 | 0° 7 | 2°59 | 23°59 | 3°13 | 2°34 | 0° 7 | n.a. | W17 |
| T 18 | 1 35 32 | 22°28'44 | 6♏12 | 18°20 | 9°26 | 22°33 | 2° 3 | 9°37 | 0° 4 | 2°58 | 23°58 | 3° 1 | 2°31 | 0°14 | n.a. | T 18 |
| F 19 | 1 39 29 | 23°29'25 | 21°17 | 19°57 | 10°36 | 23°16 | 1°55 | 9°43 | 0° 2 | 2°57 | 23°57 | 2°51 | 2°27 | 0°21 | n.a. | F 19 |
| S 20 | 1 43 26 | 24°30'07 | 6♐15 | 21°33 | 11°46 | 23°59 | 1°47 | 9°50 | 29♈59 | 2°56 | 23°56 | 2°42 | 2°24 | 0°27 | n.a. | S 20 |
| S 21 | 1 47 22 | 25°30'51 | 20°57 | 23° 9 | 12°56 | 24°42 | 1°38 | 9°57 | 29°57 | 2°54 | 23°55 | 2°36 | 2°21 | 0°34 | n.a. | S 21 |
| M22 | 1 51 19 | 26°31'35 | 5♑19 | 24°44 | 14° 6 | 25°25 | 1°30 | 10° 4 | 29°54 | 2°53 | 23°54 | 2°32 | 2°18 | 0°41 | n.a. | M22 |
| T 23 | 1 55 15 | 27°32'21 | 19°18 | 26°19 | 15°16 | 26° 8 | 1°22 | 10°11 | 29°52 | 2°52 | 23°53 | 2°31 | 2°15 | 0°47 | n.a. | T 23 |
| W24 | 1 59 12 | 28°33'08 | 2♒56 | 27°55 | 16°27 | 26°51 | 1°14 | 10°18 | 29°49 | 2°50 | 23°52 | 2°31 | 2°12 | 0°54 | n.a. | W24 |
| T 25 | 2 3 8 | 29°33'56 | 16°13 | 29°29 | 17°38 | 27°34 | 1° 6 | 10°25 | 29°47 | 2°49 | 23°51 | 2°31 | 2° 8 | 1° 1 | n.a. | T 25 |
| F 26 | 2 7 5 | 0♏34'45 | 29°12 | 1♏ 4 | 18°48 | 28°17 | 0°58 | 10°32 | 29°44 | 2°48 | 23°50 | 2°29 | 2° 5 | 1° 8 | n.a. | F 26 |
| S 27 | 2 11 1 | 1°35'36 | 11♓57 | 2°39 | 19°59 | 29° 0 | 0°49 | 10°39 | 29°42 | 2°46 | 23°49 | 2°24 | 2° 2 | 1°14 | n.a. | S 27 |
| S 28 | 2 14 58 | 2°36'27 | 24°31 | 4°13 | 21°10 | 29°44 | 0°41 | 10°46 | 29°39 | 2°45 | 23°48 | 2°17 | 1°59 | 1°21 | n.a. | S 28 |
| M29 | 2 18 55 | 3°37'19 | 6♈54 | 5°48 | 22°22 | 0♏27 | 0°33 | 10°53 | 29°37 | 2°43 | 23°47 | 2° 6 | 1°56 | 1°28 | n.a. | M29 |
| T 30 | 2 22 51 | 4°38'12 | 19° 9 | 7°22 | 23°33 | 1°10 | 0°25 | 11° 0 | 29°34 | 2°42 | 23°46 | 1°53 | 1°52 | 1°34 | n.a. | T 30 |
| W31 | 2 26 48 | 5♏39'07 | 1♉16 | 8♏56 | 24♍44 | 1♏54 | 0♉17 | 11♏ 7 | 29♈32 | 2♊40 | 23♉44 | 1♒39 | 1♒49 | 1♊41 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| M 1 | 2s 9 | 2n47 | 4n 2 | 5n33 | 2n 0 | 15n 7 | 0n11 | 3s52 | 0n23 | 11n46 | 1s20 | 12s25 | 1n56 | 11n26 | 0s27 | 19n36 | 1s28 | 10n34 | 8s43 | 19s15 | 19s37 | 24n33 | | | n.a. |
| T 2 | 2 33 | 8 18 | 4 36 | 4 52 | 1 58 | 14 50 | 0 16 | 4 9 | 0 22 | 11 44 | 1 20 | 12 27 | 1 56 | 11 25 | 0 27 | 19 36 | 1 28 | 10 34 | 8 44 | 19 17 | 19 37 | 24 34 | | | n.a. |
| W 3 | 2 57 | 13 26 | 4 56 | 4 11 | 1 55 | 14 32 | 0 21 | 4 26 | 0 22 | 11 42 | 1 20 | 12 29 | 1 56 | 11 24 | 0 27 | 19 35 | 1 28 | 10 34 | 8 44 | 19 20 | 19 38 | 24 36 | | | n.a. |
| T 4 | 3 21 | 17 58 | 5 2 | 3 29 | 1 51 | 14 15 | 0 25 | 4 43 | 0 21 | 11 40 | 1 20 | 12 32 | 1 56 | 11 24 | 0 27 | 19 35 | 1 28 | 10 33 | 8 44 | 19 23 | 19 39 | 24 37 | | | n.a. |
| F 5 | 3 45 | 21 43 | 4 55 | 2 46 | 1 47 | 13 56 | 0 30 | 5 0 | 0 21 | 11 37 | 1 20 | 12 34 | 1 56 | 11 23 | 0 27 | 19 35 | 1 28 | 10 33 | 8 44 | 19 26 | 19 40 | 24 38 | | | n.a. |
| S 6 | 4 9 | 24 32 | 4 35 | 2 3 | 1 43 | 13 37 | 0 34 | 5 17 | 0 20 | 11 35 | 1 20 | 12 36 | 1 55 | 11 22 | 0 27 | 19 35 | 1 28 | 10 33 | 8 44 | 19 28 | 19 40 | 24 39 | | | n.a. |
| S 7 | 4 33 | 26 17 | 4 4 | 1 19 | 1 38 | 13 18 | 0 38 | 5 34 | 0 20 | 11 33 | 1 20 | 12 38 | 1 55 | 11 21 | 0 27 | 19 35 | 1 28 | 10 33 | 8 44 | 19 30 | 19 41 | 24 40 | | | n.a. |
| M 8 | 4 57 | 26 50 | 3 22 | 0 35 | 1 33 | 12 59 | 0 42 | 5 51 | 0 19 | 11 30 | 1 20 | 12 40 | 1 55 | 11 20 | 0 27 | 19 34 | 1 28 | 10 32 | 8 44 | 19 31 | 19 42 | 24 41 | | | n.a. |
| T 9 | 5 21 | 26 9 | 2 30 | 0s 9 | 1 28 | 12 38 | 0 46 | 6 8 | 0 18 | 11 28 | 1 20 | 12 43 | 1 55 | 11 20 | 0 27 | 19 34 | 1 28 | 10 32 | 8 44 | 19 31 | 19 42 | 24 43 | | | n.a. |
| W10 | 5 44 | 24 13 | 1 32 | 0 53 | 1 23 | 12 18 | 0 50 | 6 25 | 0 18 | 11 25 | 1 20 | 12 45 | 1 55 | 11 19 | 0 27 | 19 34 | 1 28 | 10 32 | 8 44 | 19 31 | 19 43 | 24 44 | | | n.a. |
| T 11 | 6 8 | 21 8 | 0 28 | 1 38 | 1 17 | 11 57 | 0 54 | 6 42 | 0 17 | 11 23 | 1 20 | 12 47 | 1 55 | 11 18 | 0 27 | 19 34 | 1 28 | 10 32 | 8 44 | 19 31 | 19 44 | 24 45 | | | n.a. |
| F 12 | 6 32 | 16 58 | 0s39 | 2 22 | 1 11 | 11 36 | 0 58 | 6 59 | 0 17 | 11 20 | 1 20 | 12 49 | 1 55 | 11 17 | 0 27 | 19 34 | 1 28 | 10 31 | 8 44 | 19 31 | 19 45 | 24 46 | | | n.a. |
| S 13 | 6 55 | 11 54 | 1 47 | 3 7 | 1 5 | 11 14 | 1 1 | 7 16 | 0 16 | 11 17 | 1 20 | 12 52 | 1 55 | 11 16 | 0 27 | 19 33 | 1 29 | 10 31 | 8 45 | 19 32 | 19 45 | 24 47 | | | n.a. |
| S 14 | 7 18 | 6 6 | 2 50 | 3 51 | 0 59 | 10 52 | 1 5 | 7 33 | 0 15 | 11 15 | 1 20 | 12 54 | 1 55 | 11 15 | 0 27 | 19 33 | 1 29 | 10 31 | 8 45 | 19 33 | 19 46 | 24 48 | | | n.a. |
| M15 | 7 42 | 0s11 | 3 45 | 4 35 | 0 53 | 10 29 | 1 8 | 7 50 | 0 15 | 11 12 | 1 20 | 12 56 | 1 54 | 11 14 | 0 27 | 19 33 | 1 29 | 10 30 | 8 45 | 19 34 | 19 47 | 24 49 | | | n.a. |
| T 16 | 8 5 | 6 38 | 4 28 | 5 19 | 0 46 | 10 6 | 1 12 | 8 7 | 0 14 | 11 9 | 1 20 | 12 58 | 1 54 | 11 14 | 0 27 | 19 33 | 1 29 | 10 30 | 8 45 | 19 37 | 19 48 | 24 50 | | | n.a. |
| W17 | 8 28 | 12 52 | 4 54 | 6 2 | 0 40 | 9 43 | 1 15 | 8 23 | 0 14 | 11 7 | 1 20 | 13 1 | 1 54 | 11 13 | 0 27 | 19 32 | 1 29 | 10 30 | 8 45 | 19 39 | 19 48 | 24 51 | | | n.a. |
| T 18 | 8 51 | 18 26 | 5 0 | 6 45 | 0 33 | 9 19 | 1 18 | 8 40 | 0 13 | 11 4 | 1 20 | 13 3 | 1 54 | 11 12 | 0 27 | 19 32 | 1 29 | 10 29 | 8 45 | 19 42 | 19 49 | 24 52 | | | n.a. |
| F 19 | 9 13 | 22 52 | 4 45 | 7 28 | 0 27 | 8 55 | 1 21 | 8 57 | 0 12 | 11 1 | 1 20 | 13 5 | 1 54 | 11 11 | 0 27 | 19 32 | 1 29 | 10 29 | 8 45 | 19 44 | 19 50 | 24 54 | | | n.a. |
| S 20 | 9 36 | 25 42 | 4 11 | 8 11 | 0 20 | 8 31 | 1 24 | 9 13 | 0 12 | 10 59 | 1 20 | 13 7 | 1 54 | 11 10 | 0 27 | 19 32 | 1 29 | 10 29 | 8 45 | 19 47 | 19 51 | 24 55 | | | n.a. |
| S 21 | 9 58 | 26 44 | 3 21 | 8 53 | 0 13 | 8 7 | 1 27 | 9 30 | 0 11 | 10 56 | 1 20 | 13 10 | 1 54 | 11 9 | 0 27 | 19 31 | 1 29 | 10 29 | 8 45 | 19 48 | 19 51 | 24 56 | | | n.a. |
| M22 | 10 21 | 25 54 | 2 18 | 9 35 | 0 7 | 7 42 | 1 29 | 9 46 | 0 10 | 10 53 | 1 20 | 13 12 | 1 54 | 11 8 | 0 27 | 19 31 | 1 29 | 10 28 | 8 45 | 19 49 | 19 52 | 24 57 | | | n.a. |
| T 23 | 10 43 | 23 26 | 1 9 | 10 16 | 0 0 | 7 17 | 1 32 | 10 3 | 0 10 | 10 50 | 1 20 | 13 14 | 1 54 | 11 7 | 0 27 | 19 31 | 1 29 | 10 28 | 8 45 | 19 49 | 19 53 | 24 58 | | | n.a. |
| W24 | 11 5 | 19 41 | 0n 2 | 10 57 | 0s 6 | 6 51 | 1 35 | 10 19 | 0 9 | 10 47 | 1 20 | 13 17 | 1 54 | 11 7 | 0 27 | 19 30 | 1 29 | 10 28 | 8 45 | 19 49 | 19 53 | 24 59 | | | n.a. |
| T 25 | 11 27 | 15 1 | 1 12 | 11 37 | 0 13 | 6 26 | 1 37 | 10 35 | 0 9 | 10 45 | 1 19 | 13 19 | 1 54 | 11 6 | 0 27 | 19 30 | 1 29 | 10 27 | 8 45 | 19 49 | 19 54 | 25 0 | | | n.a. |
| F 26 | 11 48 | 9 46 | 2 16 | 12 17 | 0 19 | 6 0 | 1 39 | 10 52 | 0 8 | 10 42 | 1 19 | 13 21 | 1 53 | 11 5 | 0 27 | 19 30 | 1 29 | 10 27 | 8 45 | 19 50 | 19 55 | 25 1 | | | n.a. |
| S 27 | 12 10 | 4 12 | 3 12 | 12 56 | 0 26 | 5 33 | 1 41 | 11 8 | 0 7 | 10 39 | 1 19 | 13 23 | 1 53 | 11 4 | 0 27 | 19 30 | 1 29 | 10 27 | 8 45 | 19 51 | 19 56 | 25 2 | | | n.a. |
| S 28 | 12 31 | 1n25 | 3 58 | 13 34 | 0 32 | 5 7 | 1 43 | 11 24 | 0 7 | 10 36 | 1 19 | 13 26 | 1 53 | 11 3 | 0 27 | 19 29 | 1 29 | 10 27 | 8 45 | 19 52 | 19 56 | 25 3 | | | n.a. |
| M29 | 12 52 | 6 55 | 4 31 | 14 12 | 0 39 | 4 40 | 1 45 | 11 40 | 0 6 | 10 34 | 1 19 | 13 28 | 1 53 | 11 2 | 0 27 | 19 29 | 1 29 | 10 26 | 8 45 | 19 55 | 19 57 | 25 4 | | | n.a. |
| T 30 | 13 13 | 12 4 | 4 52 | 14 50 | 0 45 | 4 14 | 1 47 | 11 56 | 0 5 | 10 31 | 1 19 | 13 30 | 1 53 | 11 1 | 0 27 | 19 29 | 1 29 | 10 26 | 8 45 | 19 58 | 19 58 | 25 5 | | | n.a. |
| W31 | 13s33 | 16n42 | 4n59 | 15s26 | 0s51 | 3n47 | 1n49 | 12s11 | 0n 5 | 10n28 | 1s19 | 13s32 | 1n53 | 11n 0 | 0s27 | 19n28 | 1s29 | 10n26 | 8s45 | 20s 1 | 19s59 | 25n 6 | | | n.a. |

Julian Day Number = 1693572.5, Delta T = 03h09m13s
Ecliptic obliquity = 23°42'21, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°07'02, Lahiri = - 5°00'01 Julian Calendar 1 Oct. 77 BCE == Greg. Calendar 29 Sept. 077 BCE

The year -76 astronomical counting style corresponds to year 077 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 77 BCE
# geocentric

## NOVEMBER 77 BCE (-76) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 2 30 44 | 6♏40'03 | 13♉17 | 10♏30 | 25♍56 | 2♏37 | 0°R 9 | 11♏14 | 29°R29 | 2°R39 | 23°R43 | 1°R24 | 1♒46 | 1♊48 | n.a. | T 1 |
| F 2 | 2 34 41 | 7°41'00 | 25°13 | 12° 4 | 27° 8 | 3°21 | 0♉ 1 | 11°21 | 29♈27 | 2♊37 | 23♉42 | 1♒ 9 | 1°43 | 1°54 | n.a. | F 2 |
| S 3 | 2 38 37 | 8°41'58 | 7♊ 4 | 13°38 | 28°19 | 4° 5 | 29♈53 | 11°28 | 29°24 | 2°36 | 23°41 | 0°57 | 1°40 | 2° 1 | n.a. | S 3 |
| S 4 | 2 42 34 | 9°42'58 | 18°54 | 15°12 | 29°31 | 4°48 | 29°45 | 11°35 | 29°22 | 2°34 | 23°40 | 0°48 | 1°37 | 2° 8 | n.a. | S 4 |
| M 5 | 2 46 30 | 10°43'58 | 0♋44 | 16°45 | 0♎43 | 5°32 | 29°37 | 11°42 | 29°19 | 2°33 | 23°39 | 0°42 | 1°33 | 2°15 | n.a. | M 5 |
| T 6 | 2 50 27 | 11°45'00 | 12°37 | 18°19 | 1°55 | 6°16 | 29°29 | 11°49 | 29°17 | 2°31 | 23°38 | 0°38 | 1°30 | 2°21 | n.a. | T 6 |
| W 7 | 2 54 24 | 12°46'03 | 24°40 | 19°53 | 3° 8 | 6°59 | 29°21 | 11°56 | 29°14 | 2°30 | 23°37 | 0°37 | 1°27 | 2°28 | n.a. | W 7 |
| T 8 | 2 58 20 | 13°47'08 | 6♌55 | 21°27 | 4°20 | 7°43 | 29°13 | 12° 3 | 29°12 | 2°28 | 23°35 | 0°D37 | 1°24 | 2°35 | n.a. | T 8 |
| F 9 | 3 2 17 | 14°48'13 | 19°30 | 23° 1 | 5°32 | 8°27 | 29° 6 | 12°10 | 29° 9 | 2°27 | 23°34 | 0°R37 | 1°21 | 2°41 | n.a. | F 9 |
| S 10 | 3 6 13 | 15°49'20 | 2♍28 | 24°34 | 6°45 | 9°11 | 28°58 | 12°17 | 29° 7 | 2°25 | 23°33 | 0°36 | 1°18 | 2°48 | n.a. | S 10 |
| S 11 | 3 10 10 | 16°50'27 | 15°53 | 26° 8 | 7°57 | 9°55 | 28°51 | 12°24 | 29° 5 | 2°23 | 23°32 | 0°32 | 1°14 | 2°55 | n.a. | S 11 |
| M12 | 3 14 6 | 17°51'36 | 29°50 | 27°42 | 9°10 | 10°39 | 28°43 | 12°31 | 29° 2 | 2°22 | 23°31 | 0°27 | 1°11 | 3° 1 | n.a. | M12 |
| T 13 | 3 18 3 | 18°52'45 | 14♎16 | 29°16 | 10°23 | 11°23 | 28°36 | 12°38 | 29° 0 | 2°20 | 23°30 | 0°18 | 1° 8 | 3° 8 | n.a. | T 13 |
| W14 | 3 21 59 | 19°53'56 | 29° 8 | 0♐50 | 11°35 | 12° 7 | 28°29 | 12°45 | 28°58 | 2°18 | 23°28 | 0° 8 | 1° 5 | 3°15 | n.a. | W14 |
| T 15 | 3 25 56 | 20°55'08 | 14♏19 | 2°23 | 12°48 | 12°52 | 28°22 | 12°52 | 28°55 | 2°17 | 23°27 | 29♑57 | 1° 2 | 3°22 | n.a. | T 15 |
| F 16 | 3 29 53 | 21°56'20 | 29°39 | 3°57 | 14° 1 | 13°36 | 28°15 | 12°59 | 28°53 | 2°15 | 23°26 | 29°47 | 0°58 | 3°28 | n.a. | F 16 |
| S 17 | 3 33 49 | 22°57'33 | 14♐55 | 5°30 | 15°14 | 14°20 | 28° 8 | 13° 6 | 28°51 | 2°13 | 23°25 | 29°38 | 0°55 | 3°35 | n.a. | S 17 |
| S 18 | 3 37 46 | 23°58'46 | 29°56 | 7° 4 | 16°27 | 15° 4 | 28° 2 | 13°13 | 28°49 | 2°12 | 23°24 | 29°32 | 0°52 | 3°42 | n.a. | S 18 |
| M19 | 3 41 42 | 24°59'59 | 14♑36 | 8°37 | 17°40 | 15°49 | 27°55 | 13°20 | 28°46 | 2°10 | 23°23 | 29°29 | 0°49 | 3°48 | n.a. | M19 |
| T 20 | 3 45 39 | 26° 1'13 | 28°50 | 10°10 | 18°53 | 16°33 | 27°49 | 13°27 | 28°44 | 2° 8 | 23°21 | 29°D28 | 0°46 | 3°55 | n.a. | T 20 |
| W21 | 3 49 35 | 27° 2'27 | 12♒36 | 11°42 | 20° 7 | 17°18 | 27°42 | 13°34 | 28°42 | 2° 7 | 23°20 | 29°29 | 0°43 | 4° 2 | n.a. | W21 |
| T 22 | 3 53 32 | 28° 3'41 | 25°57 | 13°14 | 21°20 | 18° 2 | 27°36 | 13°41 | 28°40 | 2° 5 | 23°19 | 29°R29 | 0°39 | 4° 9 | n.a. | T 22 |
| F 23 | 3 57 29 | 29° 4'55 | 8♓55 | 14°45 | 22°33 | 18°47 | 27°30 | 13°48 | 28°38 | 2° 3 | 23°18 | 29°29 | 0°36 | 4°15 | n.a. | F 23 |
| S 24 | 4 1 25 | 0♐ 6'09 | 21°34 | 16°16 | 23°47 | 19°31 | 27°25 | 13°55 | 28°36 | 2° 2 | 23°17 | 29°26 | 0°33 | 4°22 | n.a. | S 24 |
| S 25 | 4 5 22 | 1° 7'23 | 3♈59 | 17°45 | 25° 0 | 20°16 | 27°19 | 14° 2 | 28°34 | 2° 0 | 23°15 | 29°21 | 0°30 | 4°29 | n.a. | S 25 |
| M26 | 4 9 18 | 2° 8'37 | 16°11 | 19°14 | 26°14 | 21° 1 | 27°14 | 14° 9 | 28°32 | 1°58 | 23°14 | 29°14 | 0°27 | 4°35 | n.a. | M26 |
| T 27 | 4 13 15 | 3° 9'51 | 28°16 | 20°41 | 27°27 | 21°45 | 27° 8 | 14°15 | 28°30 | 1°56 | 23°13 | 29° 4 | 0°24 | 4°42 | n.a. | T 27 |
| W28 | 4 17 11 | 4°11'05 | 10♉14 | 22° 6 | 28°41 | 22°30 | 27° 3 | 14°22 | 28°28 | 1°55 | 23°12 | 28°53 | 0°20 | 4°49 | n.a. | W28 |
| T 29 | 4 21 8 | 5°12'19 | 22° 8 | 23°30 | 29°54 | 23°15 | 26°58 | 14°29 | 28°26 | 1°53 | 23°11 | 28°42 | 0°17 | 4°55 | n.a. | T 29 |
| F 30 | 4 25 4 | 6♐13'33 | 4♊ 0 | 24♐51 | 1♏ 8 | 24♏ 0 | 26♈53 | 14♏36 | 28♈24 | 1♊51 | 23♉10 | 28♑32 | 0♒14 | 5♊ 2 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 13s53 | 20n39 | 4n53 | 16s 2 | 0s57 | 3n19 | 1n51 | 12s27 | 0n 4 | 10n25 | 1s19 | 13s35 | 1n53 | 10n59 | 0s27 | 19n28 | 1s29 | 10n25 | 8s45 | 20s 4 | 19s59 | 25n 7 | | n.a. |
| F 2 | 14 14 | 23 42 | 4 34 | 16 37 | 1 3 | 2 52 | 1 52 | 12 43 | 0 4 | 10 23 | 1 18 | 13 37 | 1 53 | 10 59 | 0 27 | 19 28 | 1 29 | 10 25 | 8 45 | 20 7 | 20 0 | 25 8 | | n.a. |
| S 3 | 14 33 | 25 43 | 4 3 | 17 11 | 1 8 | 2 24 | 1 53 | 12 58 | 0 3 | 10 20 | 1 18 | 13 39 | 1 53 | 10 58 | 0 27 | 19 28 | 1 29 | 10 25 | 8 45 | 20 10 | 20 1 | 25 9 | | n.a. |
| S 4 | 14 53 | 26 35 | 3 21 | 17 45 | 1 14 | 1 57 | 1 55 | 13 14 | 0 2 | 10 17 | 1 18 | 13 41 | 1 53 | 10 57 | 0 27 | 19 27 | 1 29 | 10 25 | 8 45 | 20 12 | 20 1 | 25 10 | | n.a. |
| M 5 | 15 13 | 26 13 | 2 31 | 18 18 | 1 19 | 1 29 | 1 56 | 13 29 | 0 2 | 10 15 | 1 18 | 13 43 | 1 53 | 10 56 | 0 27 | 19 27 | 1 29 | 10 24 | 8 45 | 20 14 | 20 2 | 25 11 | | n.a. |
| T 6 | 15 32 | 24 39 | 1 34 | 18 50 | 1 25 | 1 1 | 1 57 | 13 44 | 0 1 | 10 12 | 1 18 | 13 46 | 1 53 | 10 55 | 0 27 | 19 27 | 1 29 | 10 24 | 8 45 | 20 14 | 20 3 | 25 12 | | n.a. |
| W 7 | 15 51 | 21 57 | 0 31 | 19 21 | 1 30 | 0 33 | 1 58 | 14 0 | 0 0 | 10 9 | 1 18 | 13 48 | 1 53 | 10 54 | 0 27 | 19 26 | 1 29 | 10 24 | 8 45 | 20 15 | 20 3 | 25 12 | | n.a. |
| T 8 | 16 9 | 18 13 | 0s33 | 19 51 | 1 35 | 0 5 | 1 59 | 14 15 | 0s 0 | 10 7 | 1 17 | 13 50 | 1 53 | 10 53 | 0 27 | 19 26 | 1 29 | 10 24 | 8 45 | 20 15 | 20 4 | 25 13 | | n.a. |
| F 9 | 16 27 | 13 35 | 1 38 | 20 20 | 1 39 | 0s24 | 2 0 | 14 30 | 0 1 | 10 4 | 1 17 | 13 52 | 1 53 | 10 53 | 0 27 | 19 26 | 1 29 | 10 23 | 8 45 | 20 15 | 20 5 | 25 14 | | n.a. |
| S 10 | 16 45 | 8 13 | 2 40 | 20 48 | 1 44 | 0 52 | 2 0 | 14 44 | 0 2 | 10 2 | 1 17 | 13 54 | 1 53 | 10 52 | 0 27 | 19 25 | 1 29 | 10 23 | 8 45 | 20 15 | 20 6 | 25 15 | | n.a. |
| S 11 | 17 3 | 2 19 | 3 36 | 21 15 | 1 48 | 1 20 | 2 1 | 14 59 | 0 2 | 9 59 | 1 17 | 13 57 | 1 53 | 10 51 | 0 27 | 19 25 | 1 29 | 10 23 | 8 45 | 20 16 | 20 6 | 25 16 | | n.a. |
| M12 | 17 21 | 3s54 | 4 20 | 21 41 | 1 52 | 1 49 | 2 2 | 15 14 | 0 3 | 9 57 | 1 17 | 13 59 | 1 53 | 10 50 | 0 27 | 19 25 | 1 29 | 10 23 | 8 45 | 20 17 | 20 7 | 25 17 | | n.a. |
| T 13 | 17 38 | 10 8 | 4 50 | 22 6 | 1 56 | 2 17 | 2 2 | 15 28 | 0 3 | 9 55 | 1 16 | 14 1 | 1 53 | 10 49 | 0 27 | 19 24 | 1 29 | 10 22 | 8 45 | 20 19 | 20 8 | 25 18 | | n.a. |
| W14 | 17 55 | 15 59 | 5 2 | 22 30 | 1 59 | 2 46 | 2 2 | 15 43 | 0 4 | 9 52 | 1 16 | 14 3 | 1 53 | 10 48 | 0 27 | 19 24 | 1 29 | 10 22 | 8 45 | 20 21 | 20 8 | 25 19 | | n.a. |
| T 15 | 18 11 | 20 58 | 4 53 | 22 52 | 2 2 | 3 14 | 2 2 | 15 57 | 0 5 | 9 50 | 1 16 | 14 5 | 1 53 | 10 48 | 0 27 | 19 24 | 1 29 | 10 22 | 8 45 | 20 23 | 20 9 | 25 20 | | n.a. |
| F 16 | 18 27 | 24 34 | 4 22 | 23 13 | 2 5 | 3 43 | 2 3 | 16 11 | 0 5 | 9 48 | 1 16 | 14 7 | 1 53 | 10 47 | 0 27 | 19 23 | 1 29 | 10 22 | 8 45 | 20 25 | 20 10 | 25 20 | | n.a. |
| S 17 | 18 43 | 26 23 | 3 34 | 23 33 | 2 7 | 4 11 | 2 3 | 16 25 | 0 6 | 9 45 | 1 15 | 14 10 | 1 53 | 10 46 | 0 27 | 19 23 | 1 29 | 10 21 | 8 45 | 20 27 | 20 11 | 25 21 | | n.a. |
| S 18 | 18 59 | 26 13 | 2 30 | 23 51 | 2 10 | 4 39 | 2 2 | 16 39 | 0 7 | 9 43 | 1 15 | 14 12 | 1 53 | 10 45 | 0 27 | 19 23 | 1 29 | 10 21 | 8 45 | 20 28 | 20 11 | 25 22 | | n.a. |
| M19 | 19 14 | 24 12 | 1 18 | 24 9 | 2 11 | 5 8 | 2 2 | 16 52 | 0 7 | 9 41 | 1 15 | 14 14 | 1 53 | 10 44 | 0 27 | 19 22 | 1 29 | 10 21 | 8 45 | 20 29 | 20 12 | 25 23 | | n.a. |
| T 20 | 19 28 | 20 41 | 0 3 | 24 24 | 2 12 | 5 36 | 2 2 | 17 6 | 0 8 | 9 39 | 1 15 | 14 16 | 1 53 | 10 44 | 0 27 | 19 22 | 1 29 | 10 21 | 8 45 | 20 29 | 20 13 | 25 24 | | n.a. |
| W21 | 19 43 | 16 6 | 1n10 | 24 38 | 2 13 | 6 4 | 2 2 | 17 19 | 0 9 | 9 37 | 1 14 | 14 18 | 1 53 | 10 43 | 0 27 | 19 22 | 1 29 | 10 20 | 8 45 | 20 29 | 20 13 | 25 25 | | n.a. |
| T 22 | 19 57 | 10 52 | 2 16 | 24 51 | 2 13 | 6 32 | 2 1 | 17 33 | 0 9 | 9 35 | 1 14 | 14 20 | 1 53 | 10 42 | 0 27 | 19 21 | 1 29 | 10 20 | 8 45 | 20 29 | 20 14 | 25 26 | | n.a. |
| F 23 | 20 11 | 5 19 | 3 14 | 25 2 | 2 13 | 7 0 | 2 1 | 17 46 | 0 10 | 9 33 | 1 14 | 14 22 | 1 53 | 10 41 | 0 27 | 19 21 | 1 29 | 10 20 | 8 45 | 20 29 | 20 15 | 25 26 | | n.a. |
| S 24 | 20 24 | 0n19 | 4 1 | 25 11 | 2 12 | 7 28 | 2 0 | 17 59 | 0 11 | 9 31 | 1 14 | 14 24 | 1 53 | 10 41 | 0 27 | 19 21 | 1 29 | 10 20 | 8 45 | 20 30 | 20 15 | 25 27 | | n.a. |
| S 25 | 20 37 | 5 48 | 4 36 | 25 18 | 2 11 | 7 56 | 1 59 | 18 11 | 0 11 | 9 30 | 1 13 | 14 26 | 1 53 | 10 40 | 0 27 | 19 20 | 1 29 | 10 19 | 8 45 | 20 31 | 20 16 | 25 28 | | n.a. |
| M26 | 20 49 | 10 59 | 4 57 | 25 24 | 2 9 | 8 24 | 1 58 | 18 24 | 0 12 | 9 28 | 1 13 | 14 28 | 1 53 | 10 39 | 0 27 | 19 20 | 1 29 | 10 19 | 8 45 | 20 32 | 20 17 | 25 29 | | n.a. |
| T 27 | 21 1 | 15 42 | 5 5 | 25 28 | 2 6 | 8 51 | 1 58 | 18 37 | 0 13 | 9 26 | 1 13 | 14 30 | 1 53 | 10 39 | 0 27 | 19 20 | 1 29 | 10 19 | 8 45 | 20 34 | 20 17 | 25 30 | | n.a. |
| W28 | 21 13 | 19 46 | 4 59 | 25 30 | 2 3 | 9 19 | 1 57 | 18 49 | 0 13 | 9 25 | 1 13 | 14 32 | 1 53 | 10 38 | 0 27 | 19 19 | 1 29 | 10 19 | 8 44 | 20 37 | 20 18 | 25 30 | | n.a. |
| T 29 | 21 24 | 23 0 | 4 40 | 25 31 | 1 58 | 9 46 | 1 56 | 19 1 | 0 14 | 9 23 | 1 12 | 14 34 | 1 53 | 10 37 | 0 27 | 19 19 | 1 29 | 10 19 | 8 44 | 20 39 | 20 19 | 25 31 | | n.a. |
| F 30 | 21s35 | 25n15 | 4n 9 | 25s29 | 1s53 | 10s13 | 1n54 | 19s13 | 0s15 | 9n21 | 1s12 | 14s36 | 1n53 | 10n37 | 0s27 | 19n19 | 1s29 | 10n18 | 8s44 | 20s41 | 20s20 | 25n32 | | n.a. |

Julian Day Number = 1693603.5, Delta T = 03h09m12s
Ecliptic obliquity = 23°42'20, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°06'57, Lahiri = - 4°59'57 Julian Calendar 1 Nov. 77 BCE == Greg. Calendar 30 Oct. 077 BCE

The year -76 astronomical counting style corresponds to year 077 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 77 BCE
# geocentric

## DECEMBER 77 BCE (-76) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 4 29 1 | 7♐14'48 | 15♊51 | 26♐ 9 | 2♏22 | 24♏45 | 26°R49 | 14♏42 | 28°R23 | 1°R50 | 23°R 9 | 28°R22 | 0♒11 | 5♊ 9 | n.a. | S 1 |
| S 2 | 4 32 58 | 8°16'02 | 27°42 | 27°24 | 3°35 | 25°30 | 26♈44 | 14°49 | 28♈21 | 1♊48 | 23♉ 7 | 28♑16 | 0° 8 | 5°16 | n.a. | S 2 |
| M 3 | 4 36 54 | 9°17'16 | 9♋36 | 28°35 | 4°49 | 26°15 | 26°40 | 14°56 | 28°19 | 1°46 | 23° 6 | 28°11 | 0° 4 | 5°22 | n.a. | M 3 |
| T 4 | 4 40 51 | 10°18'31 | 21°35 | 29°41 | 6° 3 | 27° 0 | 26°36 | 15° 2 | 28°17 | 1°45 | 23° 5 | 28° 9 | 0° 1 | 5°29 | n.a. | T 4 |
| W 5 | 4 44 47 | 11°19'45 | 3♌42 | 0♑42 | 7°17 | 27°45 | 26°32 | 15° 9 | 28°16 | 1°43 | 23° 4 | 28°D 9 | 29♑58 | 5°36 | n.a. | W 5 |
| T 6 | 4 48 44 | 12°21'00 | 16° 0 | 1°38 | 8°31 | 28°30 | 26°29 | 15°15 | 28°14 | 1°41 | 23° 3 | 28°10 | 29°55 | 5°42 | n.a. | T 6 |
| F 7 | 4 52 40 | 13°22'14 | 28°34 | 2°26 | 9°45 | 29°15 | 26°25 | 15°22 | 28°12 | 1°40 | 23° 2 | 28°12 | 29°52 | 5°49 | n.a. | F 7 |
| S 8 | 4 56 37 | 14°23'29 | 11♍28 | 3° 6 | 10°59 | 0♐ 0 | 26°22 | 15°28 | 28°11 | 1°38 | 23° 1 | 28°R13 | 29°49 | 5°56 | n.a. | S 8 |
| S 9 | 5 0 33 | 15°24'43 | 24°46 | 3°38 | 12°13 | 0°45 | 26°19 | 15°35 | 28° 9 | 1°36 | 23° 0 | 28°12 | 29°45 | 6° 2 | n.a. | S 9 |
| M10 | 5 4 30 | 16°25'58 | 8♎30 | 4° 1 | 13°27 | 1°31 | 26°16 | 15°41 | 28° 8 | 1°35 | 22°59 | 28°10 | 29°42 | 6° 9 | n.a. | M10 |
| T 11 | 5 8 27 | 17°27'12 | 22°43 | 4°13 | 14°41 | 2°16 | 26°13 | 15°48 | 28° 7 | 1°33 | 22°58 | 28° 6 | 29°39 | 6°16 | n.a. | T 11 |
| W12 | 5 12 23 | 18°28'27 | 7♏21 | 4°R13 | 15°55 | 3° 1 | 26°11 | 15°54 | 28° 5 | 1°31 | 22°57 | 28° 1 | 29°36 | 6°22 | n.a. | W12 |
| T 13 | 5 16 20 | 19°29'41 | 22°21 | 4° 3 | 17° 9 | 3°47 | 26° 8 | 16° 0 | 28° 4 | 1°30 | 22°55 | 27°55 | 29°33 | 6°29 | n.a. | T 13 |
| F 14 | 5 20 16 | 20°30'55 | 7♐34 | 3°40 | 18°23 | 4°32 | 26° 6 | 16° 7 | 28° 3 | 1°28 | 22°54 | 27°49 | 29°30 | 6°36 | n.a. | F 14 |
| S 15 | 5 24 13 | 21°32'09 | 22°50 | 3° 6 | 19°37 | 5°18 | 26° 5 | 16°13 | 28° 1 | 1°27 | 22°53 | 27°44 | 29°26 | 6°43 | n.a. | S 15 |
| S 16 | 5 28 9 | 22°33'22 | 7♑58 | 2°21 | 20°52 | 6° 3 | 26° 3 | 16°19 | 28° 0 | 1°25 | 22°52 | 27°41 | 29°23 | 6°49 | n.a. | S 16 |
| M17 | 5 32 6 | 23°34'34 | 22°49 | 1°25 | 22° 6 | 6°49 | 26° 1 | 16°25 | 27°59 | 1°23 | 22°51 | 27°D39 | 29°20 | 6°56 | n.a. | M17 |
| T 18 | 5 36 3 | 24°35'46 | 7♒16 | 0°21 | 23°20 | 7°34 | 26° 0 | 16°31 | 27°58 | 1°22 | 22°50 | 27°39 | 29°17 | 7° 3 | n.a. | T 18 |
| W19 | 5 39 59 | 25°36'56 | 21°15 | 29♐10 | 24°34 | 8°20 | 25°59 | 16°37 | 27°57 | 1°20 | 22°49 | 27°41 | 29°14 | 7° 9 | n.a. | W19 |
| T 20 | 5 43 56 | 26°38'06 | 4♓47 | 27°55 | 25°49 | 9° 5 | 25°58 | 16°43 | 27°56 | 1°19 | 22°49 | 27°42 | 29°10 | 7°16 | n.a. | T 20 |
| F 21 | 5 47 52 | 27°39'14 | 17°53 | 26°37 | 27° 3 | 9°51 | 25°58 | 16°49 | 27°55 | 1°17 | 22°48 | 27°44 | 29° 7 | 7°23 | n.a. | F 21 |
| S 22 | 5 51 49 | 28°40'21 | 0♈36 | 25°20 | 28°17 | 10°37 | 25°57 | 16°55 | 27°54 | 1°16 | 22°47 | 27°R44 | 29° 4 | 7°29 | n.a. | S 22 |
| S 23 | 5 55 45 | 29°41'28 | 13° 0 | 24° 5 | 29°31 | 11°22 | 25°57 | 17° 1 | 27°53 | 1°14 | 22°46 | 27°43 | 29° 1 | 7°36 | n.a. | S 23 |
| M24 | 5 59 42 | 0♑42'33 | 25°10 | 22°55 | 0♐46 | 12° 8 | 25°D57 | 17° 6 | 27°53 | 1°13 | 22°45 | 27°41 | 28°58 | 7°43 | n.a. | M24 |
| T 25 | 6 3 38 | 1°43'37 | 7♉10 | 21°50 | 2° 0 | 12°54 | 25°57 | 17°12 | 27°52 | 1°12 | 22°44 | 27°38 | 28°55 | 7°50 | n.a. | T 25 |
| W26 | 6 7 35 | 2°44'40 | 19° 3 | 20°54 | 3°14 | 13°40 | 25°58 | 17°18 | 27°51 | 1°10 | 22°43 | 27°33 | 28°51 | 7°56 | n.a. | W26 |
| T 27 | 6 11 32 | 3°45'42 | 0♊54 | 20° 5 | 4°28 | 14°26 | 25°58 | 17°23 | 27°50 | 1° 9 | 22°42 | 27°29 | 28°48 | 8° 3 | n.a. | T 27 |
| F 28 | 6 15 28 | 4°46'42 | 12°44 | 19°25 | 5°43 | 15°12 | 25°59 | 17°29 | 27°50 | 1° 7 | 22°41 | 27°25 | 28°45 | 8°10 | n.a. | F 28 |
| S 29 | 6 19 25 | 5°47'42 | 24°37 | 18°55 | 6°57 | 15°58 | 26° 0 | 17°34 | 27°49 | 1° 6 | 22°41 | 27°21 | 28°42 | 8°16 | n.a. | S 29 |
| S 30 | 6 23 21 | 6°48'41 | 6♋33 | 18°33 | 8°11 | 16°43 | 26° 1 | 17°40 | 27°49 | 1° 5 | 22°40 | 27°19 | 28°39 | 8°23 | n.a. | S 30 |
| M31 | 6 27 18 | 7♑49'38 | 18♋35 | 18♐19 | 9♐26 | 17♐29 | 26♈ 3 | 17♏45 | 27♈48 | 1♊ 3 | 22♉39 | 27♑18 | 28♑36 | 8♊30 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21s46 | 26n23 | 3n27 | 25s26 | 1s47 | 10s39 | 1n53 | 19s25 | 0s15 | 9n20 | 1s12 | 14s38 | 1n53 | 10n36 | 0s27 | 19n18 | 1s29 | 10n18 | 8s44 | 20s43 | 20s20 | 25n33 | | n.a. |
| S 2 | 21 56 | 26 17 | 2 36 | 25 21 | 1 40 | 11 6 | 1 52 | 19 36 | 0 16 | 9 19 | 1 11 | 14 40 | 1 53 | 10 35 | 0 27 | 19 18 | 1 29 | 10 18 | 8 44 | 20 44 | 20 21 | 25 33 | | n.a. |
| M 3 | 22 5 | 24 59 | 1 38 | 25 14 | 1 32 | 11 32 | 1 51 | 19 48 | 0 17 | 9 17 | 1 11 | 14 42 | 1 53 | 10 35 | 0 27 | 19 18 | 1 29 | 10 18 | 8 44 | 20 45 | 20 22 | 25 34 | | n.a. |
| T 4 | 22 15 | 22 32 | 0 35 | 25 6 | 1 23 | 11 58 | 1 49 | 19 59 | 0 17 | 9 16 | 1 11 | 14 44 | 1 53 | 10 34 | 0 27 | 19 17 | 1 29 | 10 18 | 8 44 | 20 46 | 20 22 | 25 35 | | n.a. |
| W 5 | 22 23 | 19 3 | 0s30 | 24 55 | 1 13 | 12 24 | 1 48 | 20 10 | 0 18 | 9 15 | 1 11 | 14 46 | 1 53 | 10 34 | 0 26 | 19 17 | 1 29 | 10 18 | 8 44 | 20 46 | 20 23 | 25 36 | | n.a. |
| T 6 | 22 32 | 14 42 | 1 35 | 24 44 | 1 2 | 12 50 | 1 46 | 20 21 | 0 19 | 9 14 | 1 10 | 14 48 | 1 53 | 10 33 | 0 26 | 19 17 | 1 29 | 10 17 | 8 44 | 20 45 | 20 24 | 25 36 | | n.a. |
| F 7 | 22 39 | 9 39 | 2 37 | 24 30 | 0 49 | 13 15 | 1 44 | 20 31 | 0 19 | 9 13 | 1 10 | 14 50 | 1 53 | 10 33 | 0 26 | 19 16 | 1 29 | 10 17 | 8 44 | 20 45 | 20 24 | 25 37 | | n.a. |
| S 8 | 22 47 | 4 4 | 3 33 | 24 16 | 0 36 | 13 40 | 1 43 | 20 42 | 0 20 | 9 12 | 1 10 | 14 51 | 1 53 | 10 32 | 0 26 | 19 16 | 1 29 | 10 17 | 8 43 | 20 45 | 20 25 | 25 38 | | n.a. |
| S 9 | 22 54 | 1s51 | 4 19 | 24 0 | 0 21 | 14 4 | 1 41 | 20 52 | 0 20 | 9 11 | 1 9 | 14 53 | 1 53 | 10 32 | 0 26 | 19 16 | 1 29 | 10 17 | 8 43 | 20 45 | 20 26 | 25 38 | | n.a. |
| M10 | 23 0 | 7 52 | 4 52 | 23 44 | 0 5 | 14 28 | 1 39 | 21 2 | 0 21 | 9 11 | 1 9 | 14 55 | 1 53 | 10 31 | 0 26 | 19 15 | 1 29 | 10 17 | 8 43 | 20 45 | 20 26 | 25 39 | | n.a. |
| T 11 | 23 6 | 13 42 | 5 9 | 23 26 | 0n12 | 14 52 | 1 37 | 21 12 | 0 22 | 9 10 | 1 9 | 14 57 | 1 53 | 10 31 | 0 26 | 19 15 | 1 29 | 10 17 | 8 43 | 20 46 | 20 27 | 25 40 | | n.a. |
| W12 | 23 12 | 18 56 | 5 6 | 23 8 | 0 30 | 15 16 | 1 35 | 21 22 | 0 22 | 9 9 | 1 9 | 14 59 | 1 53 | 10 30 | 0 26 | 19 15 | 1 29 | 10 17 | 8 43 | 20 47 | 20 28 | 25 40 | | n.a. |
| T 13 | 23 17 | 23 6 | 4 43 | 22 50 | 0 49 | 15 39 | 1 33 | 21 31 | 0 23 | 9 9 | 1 8 | 15 1 | 1 53 | 10 30 | 0 26 | 19 15 | 1 29 | 10 16 | 8 43 | 20 49 | 20 28 | 25 41 | | n.a. |
| F 14 | 23 22 | 25 45 | 3 59 | 22 31 | 1 8 | 16 2 | 1 31 | 21 40 | 0 24 | 9 8 | 1 8 | 15 2 | 1 53 | 10 29 | 0 26 | 19 14 | 1 29 | 10 16 | 8 43 | 20 50 | 20 29 | 25 42 | | n.a. |
| S 15 | 23 26 | 26 29 | 2 58 | 22 13 | 1 27 | 16 24 | 1 29 | 21 49 | 0 24 | 9 8 | 1 8 | 15 4 | 1 53 | 10 29 | 0 26 | 19 14 | 1 29 | 10 16 | 8 43 | 20 51 | 20 30 | 25 42 | | n.a. |
| S 16 | 23 30 | 25 13 | 1 45 | 21 54 | 1 47 | 16 46 | 1 27 | 21 58 | 0 25 | 9 7 | 1 7 | 15 6 | 1 53 | 10 28 | 0 26 | 19 14 | 1 29 | 10 16 | 8 42 | 20 51 | 20 30 | 25 43 | | n.a. |
| M17 | 23 33 | 22 11 | 0 26 | 21 37 | 2 5 | 17 8 | 1 25 | 22 7 | 0 26 | 9 7 | 1 7 | 15 7 | 1 53 | 10 28 | 0 26 | 19 13 | 1 29 | 10 16 | 8 42 | 20 52 | 20 31 | 25 44 | | n.a. |
| T 18 | 23 36 | 17 49 | 0n52 | 21 19 | 2 23 | 17 29 | 1 23 | 22 15 | 0 26 | 9 7 | 1 7 | 15 9 | 1 53 | 10 28 | 0 26 | 19 13 | 1 29 | 10 16 | 8 42 | 20 52 | 20 32 | 25 44 | | n.a. |
| W19 | 23 38 | 12 36 | 2 6 | 21 3 | 2 39 | 17 49 | 1 20 | 22 23 | 0 27 | 9 7 | 1 6 | 15 11 | 1 53 | 10 27 | 0 26 | 19 13 | 1 29 | 10 16 | 8 42 | 20 51 | 20 32 | 25 45 | | n.a. |
| T 20 | 23 40 | 6 56 | 3 9 | 20 48 | 2 54 | 18 10 | 1 18 | 22 31 | 0 28 | 9 7 | 1 6 | 15 12 | 1 53 | 10 27 | 0 26 | 19 12 | 1 29 | 10 16 | 8 42 | 20 51 | 20 33 | 25 46 | | n.a. |
| F 21 | 23 41 | 1 9 | 4 1 | 20 34 | 3 6 | 18 29 | 1 16 | 22 39 | 0 28 | 9 7 | 1 6 | 15 14 | 1 54 | 10 27 | 0 26 | 19 12 | 1 28 | 10 16 | 8 42 | 20 51 | 20 34 | 25 46 | | n.a. |
| S 22 | 23 42 | 4n30 | 4 39 | 20 21 | 3 16 | 18 48 | 1 13 | 22 46 | 0 29 | 9 7 | 1 5 | 15 16 | 1 54 | 10 26 | 0 26 | 19 12 | 1 28 | 10 16 | 8 42 | 20 51 | 20 34 | 25 47 | | n.a. |
| S 23 | 23 42 | 9 50 | 5 3 | 20 11 | 3 23 | 19 7 | 1 11 | 22 53 | 0 30 | 9 7 | 1 5 | 15 17 | 1 54 | 10 26 | 0 26 | 19 12 | 1 28 | 10 15 | 8 41 | 20 51 | 20 35 | 25 47 | | n.a. |
| M24 | 23 42 | 14 41 | 5 13 | 20 3 | 3 29 | 19 25 | 1 8 | 23 0 | 0 30 | 9 8 | 1 5 | 15 19 | 1 54 | 10 26 | 0 26 | 19 11 | 1 28 | 10 15 | 8 41 | 20 51 | 20 36 | 25 48 | | n.a. |
| T 25 | 23 42 | 18 55 | 5 9 | 19 56 | 3 31 | 19 43 | 1 6 | 23 7 | 0 31 | 9 8 | 1 4 | 15 20 | 1 54 | 10 26 | 0 26 | 19 11 | 1 28 | 10 15 | 8 41 | 20 52 | 20 36 | 25 49 | | n.a. |
| W26 | 23 41 | 22 21 | 4 52 | 19 52 | 3 32 | 20 0 | 1 3 | 23 13 | 0 32 | 9 8 | 1 4 | 15 22 | 1 54 | 10 25 | 0 26 | 19 11 | 1 28 | 10 15 | 8 41 | 20 53 | 20 37 | 25 49 | | n.a. |
| T 27 | 23 39 | 24 50 | 4 22 | 19 50 | 3 30 | 20 17 | 1 1 | 23 19 | 0 32 | 9 9 | 1 4 | 15 23 | 1 54 | 10 25 | 0 26 | 19 11 | 1 28 | 10 15 | 8 41 | 20 54 | 20 38 | 25 50 | | n.a. |
| F 28 | 23 37 | 26 14 | 3 41 | 19 51 | 3 27 | 20 33 | 0 58 | 23 25 | 0 33 | 9 10 | 1 4 | 15 25 | 1 54 | 10 25 | 0 26 | 19 10 | 1 28 | 10 15 | 8 40 | 20 55 | 20 38 | 25 50 | | n.a. |
| S 29 | 23 35 | 26 26 | 2 50 | 19 53 | 3 22 | 20 48 | 0 55 | 23 31 | 0 34 | 9 10 | 1 3 | 15 26 | 1 54 | 10 25 | 0 26 | 19 10 | 1 28 | 10 15 | 8 40 | 20 55 | 20 39 | 25 51 | | n.a. |
| S 30 | 23 32 | 25 24 | 1 52 | 19 57 | 3 16 | 21 3 | 0 53 | 23 36 | 0 34 | 9 11 | 1 3 | 15 28 | 1 54 | 10 25 | 0 26 | 19 10 | 1 28 | 10 15 | 8 40 | 20 56 | 20 40 | 25 51 | | n.a. |
| M31 | 23s28 | 23n11 | 0n48 | 20s 4 | 3n 8 | 21s17 | 0n50 | 23s41 | 0s35 | 9n12 | 1s 3 | 15s29 | 1n54 | 10n25 | 0s26 | 19n10 | 1s28 | 10n15 | 8s40 | 20s56 | 20s40 | 25n52 | | n.a. |

Julian Day Number = 1693633.5, Delta T = 03h09m11s
Ecliptic obliquity = 23°42'20, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°06'53, Lahiri = - 4°59'53 Julian Calendar 1 Dec. 77 BCE == Greg. Calendar 29 Nov. 077 BCE

The year -76 astronomical counting style corresponds to year 077 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 76 BCE
# geocentric

## JANUARY 76 BCE (-75) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 31 14 | 8♑50'34 | 0♌45 | 18°D15 | 10♐40 | 18♐15 | 26♈ 4 | 17♏50 | 27°R48 | 1°R 2 | 22°R38 | 27°D17 | 28♑32 | 8♊36 | n.a. | T 1 |
| W 2 | 6 35 11 | 9°51'30 | 13° 4 | 18♐17 | 11°55 | 19° 2 | 26° 6 | 17°56 | 27♈48 | 1♊ 1 | 22♉37 | 27♑18 | 28°29 | 8°43 | n.a. | W 2 |
| T 3 | 6 39 8 | 10°52'24 | 25°35 | 18°28 | 13° 9 | 19°48 | 26° 8 | 18° 1 | 27°47 | 1° 0 | 22°37 | 27°19 | 28°26 | 8°50 | n.a. | T 3 |
| F 4 | 6 43 4 | 11°53'17 | 8♍19 | 18°44 | 14°23 | 20°34 | 26°10 | 18° 6 | 27°47 | 0°58 | 22°36 | 27°21 | 28°23 | 8°56 | n.a. | F 4 |
| S 5 | 6 47 1 | 12°54'09 | 21°19 | 19° 8 | 15°38 | 21°20 | 26°13 | 18°11 | 27°47 | 0°57 | 22°35 | 27°22 | 28°20 | 9° 3 | n.a. | S 5 |
| S 6 | 6 50 57 | 13°55'00 | 4♎37 | 19°36 | 16°52 | 22° 6 | 26°15 | 18°16 | 27°47 | 0°56 | 22°35 | 27°23 | 28°16 | 9°10 | n.a. | S 6 |
| M 7 | 6 54 54 | 14°55'49 | 18°15 | 20°11 | 18° 6 | 22°52 | 26°18 | 18°21 | 27°47 | 0°55 | 22°34 | 27°R23 | 28°13 | 9°17 | n.a. | M 7 |
| T 8 | 6 58 50 | 15°56'38 | 2♏15 | 20°49 | 19°21 | 23°38 | 26°21 | 18°26 | 27°D47 | 0°54 | 22°33 | 27°22 | 28°10 | 9°23 | n.a. | T 8 |
| W 9 | 7 2 47 | 16°57'26 | 16°34 | 21°33 | 20°35 | 24°25 | 26°24 | 18°30 | 27°47 | 0°53 | 22°33 | 27°22 | 28° 7 | 9°30 | n.a. | W 9 |
| T 10 | 7 6 43 | 17°58'13 | 1♐12 | 22°20 | 21°50 | 25°11 | 26°28 | 18°35 | 27°47 | 0°52 | 22°32 | 27°20 | 28° 4 | 9°37 | n.a. | T 10 |
| F 11 | 7 10 40 | 18°58'59 | 16° 2 | 23°11 | 23° 4 | 25°57 | 26°31 | 18°40 | 27°47 | 0°51 | 22°31 | 27°19 | 28° 1 | 9°43 | n.a. | F 11 |
| S 12 | 7 14 37 | 19°59'43 | 0♑59 | 24° 5 | 24°18 | 26°44 | 26°35 | 18°44 | 27°47 | 0°50 | 22°31 | 27°19 | 27°57 | 9°50 | n.a. | S 12 |
| S 13 | 7 18 33 | 21° 0'26 | 15°53 | 25° 2 | 25°33 | 27°30 | 26°39 | 18°49 | 27°48 | 0°49 | 22°30 | 27°18 | 27°54 | 9°57 | n.a. | S 13 |
| M14 | 7 22 30 | 22° 1'08 | 0♒37 | 26° 2 | 26°47 | 28°16 | 26°43 | 18°53 | 27°48 | 0°48 | 22°30 | 27°D18 | 27°51 | 10° 3 | n.a. | M14 |
| T 15 | 7 26 26 | 23° 1'47 | 15° 5 | 27° 5 | 28° 2 | 29° 3 | 26°48 | 18°57 | 27°48 | 0°47 | 22°29 | 27°18 | 27°48 | 10°10 | n.a. | T 15 |
| W16 | 7 30 23 | 24° 2'25 | 29° 9 | 28°10 | 29°16 | 29°49 | 26°52 | 19° 2 | 27°49 | 0°46 | 22°29 | 27°18 | 27°45 | 10°17 | n.a. | W16 |
| T 17 | 7 34 19 | 25° 3'01 | 12♓49 | 29°18 | 0♑31 | 0♑35 | 26°57 | 19° 6 | 27°49 | 0°45 | 22°28 | 27°19 | 27°42 | 10°23 | n.a. | T 17 |
| F 18 | 7 38 16 | 26° 3'36 | 26° 3 | 0♑27 | 1°45 | 1°22 | 27° 2 | 19°10 | 27°50 | 0°44 | 22°28 | 27°19 | 27°38 | 10°30 | n.a. | F 18 |
| S 19 | 7 42 12 | 27° 4'08 | 8♈53 | 1°38 | 2°59 | 2° 8 | 27° 7 | 19°14 | 27°50 | 0°43 | 22°27 | 27°R19 | 27°35 | 10°37 | n.a. | S 19 |
| S 20 | 7 46 9 | 28° 4'38 | 21°22 | 2°52 | 4°14 | 2°55 | 27°12 | 19°18 | 27°51 | 0°43 | 22°27 | 27°19 | 27°32 | 10°44 | n.a. | S 20 |
| M21 | 7 50 6 | 29° 5'07 | 3♉35 | 4° 6 | 5°28 | 3°41 | 27°17 | 19°22 | 27°52 | 0°42 | 22°27 | 27°D19 | 27°29 | 10°50 | n.a. | M21 |
| T 22 | 7 54 2 | 0♒ 5'33 | 15°35 | 5°23 | 6°42 | 4°28 | 27°23 | 19°25 | 27°52 | 0°41 | 22°26 | 27°19 | 27°26 | 10°57 | n.a. | T 22 |
| W23 | 7 57 59 | 1° 5'58 | 27°28 | 6°41 | 7°57 | 5°14 | 27°29 | 19°29 | 27°53 | 0°41 | 22°26 | 27°19 | 27°22 | 11° 4 | n.a. | W23 |
| T 24 | 8 1 55 | 2° 6'20 | 9♊18 | 8° 0 | 9°11 | 6° 1 | 27°34 | 19°33 | 27°54 | 0°40 | 22°26 | 27°20 | 27°19 | 11°10 | n.a. | T 24 |
| F 25 | 8 5 52 | 3° 6'41 | 21° 8 | 9°21 | 10°26 | 6°47 | 27°41 | 19°36 | 27°55 | 0°39 | 22°25 | 27°21 | 27°16 | 11°17 | n.a. | F 25 |
| S 26 | 8 9 48 | 4° 6'59 | 3♋ 4 | 10°44 | 11°40 | 7°34 | 27°47 | 19°39 | 27°56 | 0°39 | 22°25 | 27°21 | 27°13 | 11°24 | n.a. | S 26 |
| S 27 | 8 13 45 | 5° 7'16 | 15° 6 | 12° 7 | 12°54 | 8°21 | 27°53 | 19°43 | 27°57 | 0°38 | 22°25 | 27°22 | 27°10 | 11°30 | n.a. | S 27 |
| M28 | 8 17 41 | 6° 7'30 | 27°19 | 13°32 | 14° 9 | 9° 7 | 28° 0 | 19°46 | 27°58 | 0°38 | 22°24 | 27°R22 | 27° 7 | 11°37 | n.a. | M28 |
| T 29 | 8 21 38 | 7° 7'43 | 9♌44 | 14°58 | 15°23 | 9°54 | 28° 6 | 19°49 | 27°59 | 0°37 | 22°24 | 27°22 | 27° 3 | 11°44 | n.a. | T 29 |
| W30 | 8 25 35 | 8° 7'54 | 22°21 | 16°25 | 16°37 | 10°40 | 28°13 | 19°52 | 28° 0 | 0°37 | 22°24 | 27°21 | 27° 0 | 11°50 | n.a. | W30 |
| T 31 | 8 29 31 | 9♒ 8'02 | 5♍12 | 17♑53 | 17♑52 | 11♑27 | 28♈20 | 19♏55 | 28♈ 1 | 0♊36 | 22♉24 | 27♑20 | 26♑57 | 11♊57 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 23 s24 | 19n54 | 0 s19 | 20 s11 | 3n 0 | 21 s31 | 0n47 | 23 s46 | 0 s36 | 9n13 | 1 s 2 | 15 s30 | 1n54 | 10n24 | 0 s26 | 19n 9 | 1 s28 | 10n15 | 8 s40 | 20 s56 | 20 s41 | 25n52 | | | n.a. |
| W 2 | 23 20 | 15 42 | 1 26 | 20 20 | 2 51 | 21 44 | 0 45 | 23 51 | 0 36 | 9 14 | 1 2 | 15 32 | 1 55 | 10 24 | 0 26 | 19 9 | 1 28 | 10 15 | 8 40 | 20 56 | 20 42 | 25 53 | | | n.a. |
| T 3 | 23 15 | 10 47 | 2 30 | 20 31 | 2 42 | 21 56 | 0 42 | 23 55 | 0 37 | 9 15 | 1 2 | 15 33 | 1 55 | 10 24 | 0 26 | 19 9 | 1 28 | 10 15 | 8 39 | 20 56 | 20 42 | 25 53 | | | n.a. |
| F 4 | 23 10 | 5 20 | 3 28 | 20 42 | 2 32 | 22 8 | 0 39 | 23 59 | 0 37 | 9 16 | 1 1 | 15 35 | 1 55 | 10 24 | 0 26 | 19 9 | 1 28 | 10 15 | 8 39 | 20 55 | 20 43 | 25 54 | | | n.a. |
| S 5 | 23 4 | 0 s26 | 4 16 | 20 54 | 2 22 | 22 19 | 0 37 | 24 3 | 0 38 | 9 17 | 1 1 | 15 36 | 1 55 | 10 24 | 0 26 | 19 9 | 1 28 | 10 15 | 8 39 | 20 55 | 20 44 | 25 54 | | | n.a. |
| S 6 | 22 58 | 6 19 | 4 52 | 21 7 | 2 11 | 22 29 | 0 34 | 24 7 | 0 39 | 9 18 | 1 1 | 15 37 | 1 55 | 10 24 | 0 26 | 19 8 | 1 28 | 10 15 | 8 39 | 20 55 | 20 44 | 25 55 | | | n.a. |
| M 7 | 22 52 | 12 3 | 5 13 | 21 20 | 2 1 | 22 39 | 0 31 | 24 10 | 0 39 | 9 19 | 1 1 | 15 38 | 1 55 | 10 24 | 0 26 | 19 8 | 1 28 | 10 15 | 8 39 | 20 55 | 20 45 | 25 55 | | | n.a. |
| T 8 | 22 44 | 17 19 | 5 16 | 21 33 | 1 50 | 22 48 | 0 28 | 24 13 | 0 40 | 9 21 | 1 0 | 15 40 | 1 55 | 10 24 | 0 26 | 19 8 | 1 28 | 10 15 | 8 38 | 20 55 | 20 45 | 25 56 | | | n.a. |
| W 9 | 22 37 | 21 45 | 4 59 | 21 47 | 1 39 | 22 57 | 0 25 | 24 16 | 0 41 | 9 22 | 1 0 | 15 41 | 1 55 | 10 24 | 0 26 | 19 8 | 1 28 | 10 15 | 8 38 | 20 55 | 20 46 | 25 56 | | | n.a. |
| T 10 | 22 29 | 24 55 | 4 23 | 22 0 | 1 29 | 23 4 | 0 23 | 24 18 | 0 41 | 9 24 | 1 0 | 15 42 | 1 55 | 10 24 | 0 25 | 19 8 | 1 28 | 10 15 | 8 38 | 20 55 | 20 47 | 25 57 | | | n.a. |
| F 11 | 22 21 | 26 26 | 3 29 | 22 14 | 1 18 | 23 11 | 0 20 | 24 20 | 0 42 | 9 25 | 0 59 | 15 43 | 1 55 | 10 24 | 0 25 | 19 8 | 1 28 | 10 15 | 8 38 | 20 56 | 20 47 | 25 57 | | | n.a. |
| S 12 | 22 12 | 26 3 | 2 21 | 22 27 | 1 8 | 23 18 | 0 17 | 24 22 | 0 42 | 9 27 | 0 59 | 15 44 | 1 56 | 10 24 | 0 25 | 19 7 | 1 28 | 10 15 | 8 38 | 20 56 | 20 48 | 25 58 | | | n.a. |
| S 13 | 22 3 | 23 47 | 1 3 | 22 39 | 0 58 | 23 23 | 0 14 | 24 24 | 0 43 | 9 29 | 0 59 | 15 45 | 1 56 | 10 25 | 0 25 | 19 7 | 1 28 | 10 15 | 8 37 | 20 56 | 20 49 | 25 58 | | | n.a. |
| M14 | 21 53 | 19 56 | 0n18 | 22 51 | 0 47 | 23 28 | 0 12 | 24 25 | 0 44 | 9 30 | 0 58 | 15 47 | 1 56 | 10 25 | 0 25 | 19 7 | 1 28 | 10 16 | 8 37 | 20 56 | 20 49 | 25 59 | | | n.a. |
| T 15 | 21 43 | 14 57 | 1 37 | 23 3 | 0 38 | 23 33 | 0 9 | 24 26 | 0 44 | 9 32 | 0 58 | 15 48 | 1 56 | 10 25 | 0 25 | 19 7 | 1 27 | 10 16 | 8 37 | 20 56 | 20 50 | 25 59 | | | n.a. |
| W16 | 21 32 | 9 17 | 2 48 | 23 14 | 0 28 | 23 36 | 0 6 | 24 27 | 0 45 | 9 34 | 0 58 | 15 49 | 1 56 | 10 25 | 0 25 | 19 7 | 1 27 | 10 16 | 8 37 | 20 56 | 20 51 | 26 0 | | | n.a. |
| T 17 | 21 22 | 3 20 | 3 47 | 23 24 | 0 18 | 23 39 | 0 3 | 24 28 | 0 46 | 9 36 | 0 58 | 15 50 | 1 56 | 10 25 | 0 25 | 19 7 | 1 27 | 10 16 | 8 37 | 20 56 | 20 51 | 26 0 | | | n.a. |
| F 18 | 21 10 | 2n34 | 4 32 | 23 33 | 0 9 | 23 41 | 0 1 | 24 28 | 0 46 | 9 38 | 0 57 | 15 51 | 1 56 | 10 25 | 0 25 | 19 7 | 1 27 | 10 16 | 8 36 | 20 56 | 20 52 | 26 0 | | | n.a. |
| S 19 | 20 59 | 8 10 | 5 1 | 23 42 | 0 s 0 | 23 42 | 0 s 2 | 24 28 | 0 47 | 9 40 | 0 57 | 15 52 | 1 56 | 10 26 | 0 25 | 19 6 | 1 27 | 10 16 | 8 36 | 20 56 | 20 52 | 26 1 | | | n.a. |
| S 20 | 20 47 | 13 17 | 5 16 | 23 49 | 0 9 | 23 43 | 0 5 | 24 28 | 0 47 | 9 42 | 0 57 | 15 53 | 1 57 | 10 26 | 0 25 | 19 6 | 1 27 | 10 16 | 8 36 | 20 56 | 20 53 | 26 1 | | | n.a. |
| M21 | 20 34 | 17 47 | 5 16 | 23 56 | 0 17 | 23 43 | 0 7 | 24 27 | 0 48 | 9 45 | 0 56 | 15 53 | 1 57 | 10 26 | 0 25 | 19 6 | 1 27 | 10 16 | 8 36 | 20 56 | 20 54 | 26 2 | | | n.a. |
| T 22 | 20 21 | 21 29 | 5 2 | 24 1 | 0 26 | 23 42 | 0 10 | 24 26 | 0 49 | 9 47 | 0 56 | 15 54 | 1 57 | 10 27 | 0 25 | 19 6 | 1 27 | 10 16 | 8 35 | 20 56 | 20 54 | 26 2 | | | n.a. |
| W23 | 20 8 | 24 16 | 4 35 | 24 6 | 0 34 | 23 40 | 0 13 | 24 25 | 0 49 | 9 49 | 0 56 | 15 55 | 1 57 | 10 27 | 0 25 | 19 6 | 1 27 | 10 17 | 8 35 | 20 56 | 20 55 | 26 2 | | | n.a. |
| T 24 | 19 55 | 25 59 | 3 56 | 24 9 | 0 41 | 23 38 | 0 15 | 24 24 | 0 50 | 9 52 | 0 56 | 15 56 | 1 57 | 10 27 | 0 25 | 19 6 | 1 27 | 10 17 | 8 35 | 20 56 | 20 56 | 26 3 | | | n.a. |
| F 25 | 19 41 | 26 32 | 3 8 | 24 11 | 0 49 | 23 35 | 0 18 | 24 22 | 0 50 | 9 54 | 0 55 | 15 57 | 1 57 | 10 28 | 0 25 | 19 6 | 1 27 | 10 17 | 8 35 | 20 55 | 20 56 | 26 3 | | | n.a. |
| S 26 | 19 26 | 25 51 | 2 11 | 24 12 | 0 56 | 23 31 | 0 20 | 24 20 | 0 51 | 9 57 | 0 55 | 15 58 | 1 57 | 10 28 | 0 25 | 19 6 | 1 27 | 10 17 | 8 35 | 20 55 | 20 57 | 26 3 | | | n.a. |
| S 27 | 19 12 | 23 57 | 1 8 | 24 11 | 1 3 | 23 27 | 0 23 | 24 18 | 0 51 | 9 59 | 0 55 | 15 58 | 1 57 | 10 28 | 0 25 | 19 6 | 1 27 | 10 17 | 8 34 | 20 55 | 20 58 | 26 4 | | | n.a. |
| M28 | 18 57 | 20 56 | 0 0 | 24 10 | 1 10 | 23 22 | 0 25 | 24 15 | 0 52 | 10 2 | 0 55 | 15 59 | 1 58 | 10 29 | 0 25 | 19 6 | 1 27 | 10 17 | 8 34 | 20 55 | 20 58 | 26 4 | | | n.a. |
| T 29 | 18 42 | 16 55 | 1 s 8 | 24 7 | 1 16 | 23 16 | 0 28 | 24 12 | 0 53 | 10 4 | 0 54 | 16 0 | 1 58 | 10 29 | 0 25 | 19 6 | 1 27 | 10 17 | 8 34 | 20 55 | 20 59 | 26 4 | | | n.a. |
| W30 | 18 26 | 12 6 | 2 14 | 24 2 | 1 22 | 23 9 | 0 30 | 24 9 | 0 53 | 10 7 | 0 54 | 16 1 | 1 58 | 10 30 | 0 25 | 19 6 | 1 27 | 10 18 | 8 34 | 20 55 | 20 59 | 26 5 | | | n.a. |
| T 31 | 18 s10 | 6n42 | 3 s15 | 23 s56 | 1 s27 | 23 s 2 | 0 s33 | 24 s 6 | 0 s54 | 10n10 | 0 s54 | 16 s 1 | 1n58 | 10n30 | 0 s25 | 19n 6 | 1 s27 | 10n18 | 8 s33 | 20 s56 | 21 s 0 | 26n 5 | | | n.a. |

Julian Day Number = 1693664.5, Delta T = 03h09m10s
Ecliptic obliquity = 23°42'19, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°06'49, Lahiri = - 4°59'49 Julian Calendar 1 Jan. 76 BCE == Greg. Calendar 30 Dec. 077 BCE

The year -75 astronomical counting style corresponds to year 076 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 76 BCE
# geocentric

## FEBRUARY 76 BCE (-75) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 8 33 28 | 10♒ 8'09 | 18♍16 | 19♉23 | 19♉ 6 | 12♉14 | 28♈27 | 19♏58 | 28♈ 2 | 0°R36 | 22°R24 | 27°R18 | 26♉54 | 12♊ 4 | n.a. | F 1 |
| S 2 | 8 37 24 | 11° 8'14 | 1♎34 | 20°54 | 20°20 | 13° 0 | 28°35 | 20° 1 | 28° 4 | 0♊36 | 22♉24 | 27♉16 | 26°51 | 12°10 | n.a. | S 2 |
| S 3 | 8 41 21 | 12° 8'18 | 15° 6 | 22°26 | 21°35 | 13°47 | 28°42 | 20° 4 | 28° 5 | 0°35 | 22°24 | 27°14 | 26°47 | 12°17 | n.a. | S 3 |
| M 4 | 8 45 17 | 13° 8'19 | 28°50 | 23°58 | 22°49 | 14°34 | 28°50 | 20° 6 | 28° 6 | 0°35 | 22°23 | 27°13 | 26°44 | 12°24 | n.a. | M 4 |
| T 5 | 8 49 14 | 14° 8'20 | 12♏47 | 25°33 | 24° 3 | 15°20 | 28°58 | 20° 9 | 28° 8 | 0°35 | 22°23 | 27°D13 | 26°41 | 12°30 | n.a. | T 5 |
| W 6 | 8 53 10 | 15° 8'18 | 26°55 | 27° 8 | 25°18 | 16° 7 | 29° 5 | 20°11 | 28° 9 | 0°34 | 22°23 | 27°13 | 26°38 | 12°37 | n.a. | W 6 |
| T 7 | 8 57 7 | 16° 8'15 | 11♐12 | 28°44 | 26°32 | 16°54 | 29°13 | 20°14 | 28°11 | 0°34 | 22°D23 | 27°14 | 26°35 | 12°44 | n.a. | T 7 |
| F 8 | 9 1 4 | 17° 8'10 | 25°37 | 0♒22 | 27°46 | 17°40 | 29°22 | 20°16 | 28°12 | 0°34 | 22°23 | 27°15 | 26°32 | 12°51 | n.a. | F 8 |
| S 9 | 9 5 0 | 18° 8'03 | 10♑ 6 | 2° 0 | 29° 1 | 18°27 | 29°30 | 20°18 | 28°14 | 0°34 | 22°23 | 27°16 | 26°28 | 12°57 | n.a. | S 9 |
| S 10 | 9 8 57 | 19° 7'55 | 24°34 | 3°40 | 0♒15 | 19°14 | 29°38 | 20°20 | 28°16 | 0°34 | 22°23 | 27°R17 | 26°25 | 13° 4 | n.a. | S 10 |
| M11 | 9 12 53 | 20° 7'44 | 8♒56 | 5°21 | 1°29 | 20° 1 | 29°47 | 20°22 | 28°17 | 0°34 | 22°24 | 27°17 | 26°22 | 13°11 | n.a. | M11 |
| T 12 | 9 16 50 | 21° 7'31 | 23° 6 | 7° 3 | 2°44 | 20°47 | 29°56 | 20°24 | 28°19 | 0°D34 | 22°24 | 27°15 | 26°19 | 13°17 | n.a. | T 12 |
| W13 | 9 20 46 | 22° 7'17 | 7♓ 2 | 8°46 | 3°58 | 21°34 | 0♉ 5 | 20°26 | 28°21 | 0°34 | 22°24 | 27°12 | 26°16 | 13°24 | n.a. | W13 |
| T 14 | 9 24 43 | 23° 7'00 | 20°37 | 10°31 | 5°12 | 22°21 | 0°14 | 20°27 | 28°23 | 0°34 | 22°24 | 27° 9 | 26°13 | 13°31 | n.a. | T 14 |
| F 15 | 9 28 39 | 24° 6'40 | 3♈51 | 12°16 | 6°26 | 23° 8 | 0°23 | 20°29 | 28°25 | 0°34 | 22°24 | 27° 4 | 26° 9 | 13°37 | n.a. | F 15 |
| S 16 | 9 32 36 | 25° 6'19 | 16°44 | 14° 3 | 7°41 | 23°54 | 0°32 | 20°30 | 28°27 | 0°34 | 22°24 | 27° 0 | 26° 6 | 13°44 | n.a. | S 16 |
| S 17 | 9 36 32 | 26° 5'55 | 29°17 | 15°52 | 8°55 | 24°41 | 0°41 | 20°32 | 28°29 | 0°34 | 22°24 | 26°56 | 26° 3 | 13°51 | n.a. | S 17 |
| M18 | 9 40 29 | 27° 5'29 | 11♉32 | 17°41 | 10° 9 | 25°28 | 0°51 | 20°33 | 28°31 | 0°34 | 22°25 | 26°54 | 26° 0 | 13°57 | n.a. | M18 |
| T 19 | 9 44 26 | 28° 5'00 | 23°35 | 19°31 | 11°23 | 26°15 | 1° 0 | 20°34 | 28°33 | 0°35 | 22°25 | 26°D53 | 25°57 | 14° 4 | n.a. | T 19 |
| W20 | 9 48 22 | 29° 4'29 | 5♊28 | 21°23 | 12°38 | 27° 1 | 1°10 | 20°35 | 28°35 | 0°35 | 22°25 | 26°53 | 25°53 | 14°11 | n.a. | W20 |
| T 21 | 9 52 19 | 0♓ 3'56 | 17°18 | 23°16 | 13°52 | 27°48 | 1°20 | 20°36 | 28°37 | 0°35 | 22°26 | 26°54 | 25°50 | 14°17 | n.a. | T 21 |
| F 22 | 9 56 15 | 1° 3'21 | 29° 9 | 25°11 | 15° 6 | 28°35 | 1°30 | 20°37 | 28°39 | 0°36 | 22°26 | 26°56 | 25°47 | 14°24 | n.a. | F 22 |
| S 23 | 10 0 12 | 2° 2'43 | 11♋ 7 | 27° 6 | 16°20 | 29°21 | 1°40 | 20°38 | 28°41 | 0°36 | 22°26 | 26°57 | 25°44 | 14°31 | n.a. | S 23 |
| S 24 | 10 4 8 | 3° 2'02 | 23°15 | 29° 3 | 17°34 | 0♒ 8 | 1°50 | 20°38 | 28°44 | 0°36 | 22°27 | 26°R58 | 25°41 | 14°37 | n.a. | S 24 |
| M25 | 10 8 5 | 4° 1'19 | 5♌37 | 1♓ 1 | 18°48 | 0°55 | 2° 0 | 20°39 | 28°46 | 0°37 | 22°27 | 26°58 | 25°38 | 14°44 | n.a. | M25 |
| T 26 | 10 12 1 | 5° 0'34 | 18°15 | 3° 0 | 20° 3 | 1°41 | 2°10 | 20°40 | 28°48 | 0°37 | 22°27 | 26°56 | 25°34 | 14°51 | n.a. | T 26 |
| W27 | 10 15 58 | 5°59'47 | 1♍11 | 5° 0 | 21°17 | 2°28 | 2°21 | 20°40 | 28°51 | 0°38 | 22°28 | 26°52 | 25°31 | 14°57 | n.a. | W27 |
| T 28 | 10 19 55 | 6♓58'58 | 14♍25 | 7♓ 1 | 22♒31 | 3♒15 | 2♉31 | 20♏40 | 28♈53 | 0♊38 | 22♉28 | 26♉47 | 25♉28 | 15♊ 4 | n.a. | T 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 17s54 | 0n55 | 4s 6 | 23s49 | 1s33 | 22s54 | 0s35 | 24s 2 | 0s54 | 10n13 | 0s53 | 16s 2 | 1n58 | 10n30 | 0s25 | 19n 6 | 1s27 | 10n18 | 8s33 | 20s56 | 21s 1 | 26n 5 | | n.a. |
| S 2 | 17 38 | 4s59 | 4 45 | 23 40 | 1 38 | 22 46 | 0 37 | 23 58 | 0 55 | 10 16 | 0 53 | 16 3 | 1 58 | 10 31 | 0 25 | 19 6 | 1 26 | 10 18 | 8 33 | 20 56 | 21 1 | 26 6 | | n.a. |
| S 3 | 17 21 | 10 45 | 5 9 | 23 30 | 1 42 | 22 36 | 0 40 | 23 54 | 0 55 | 10 19 | 0 53 | 16 3 | 1 58 | 10 31 | 0 25 | 19 6 | 1 26 | 10 18 | 8 33 | 20 57 | 21 2 | 26 6 | | n.a. |
| M 4 | 17 4 | 16 5 | 5 16 | 23 18 | 1 47 | 22 26 | 0 42 | 23 50 | 0 56 | 10 21 | 0 53 | 16 4 | 1 59 | 10 32 | 0 25 | 19 6 | 1 26 | 10 19 | 8 32 | 20 57 | 21 2 | 26 6 | | n.a. |
| T 5 | 16 46 | 20 40 | 5 5 | 23 5 | 1 51 | 22 16 | 0 44 | 23 45 | 0 57 | 10 24 | 0 52 | 16 4 | 1 59 | 10 33 | 0 25 | 19 6 | 1 26 | 10 19 | 8 32 | 20 57 | 21 3 | 26 6 | | n.a. |
| W 6 | 16 28 | 24 8 | 4 35 | 22 50 | 1 54 | 22 4 | 0 46 | 23 40 | 0 57 | 10 28 | 0 52 | 16 5 | 1 59 | 10 33 | 0 25 | 19 6 | 1 26 | 10 19 | 8 32 | 20 57 | 21 4 | 26 7 | | n.a. |
| T 7 | 16 11 | 26 8 | 3 48 | 22 33 | 1 57 | 21 52 | 0 48 | 23 35 | 0 58 | 10 31 | 0 52 | 16 5 | 1 59 | 10 34 | 0 25 | 19 6 | 1 26 | 10 19 | 8 32 | 20 57 | 21 4 | 26 7 | | n.a. |
| F 8 | 15 52 | 26 24 | 2 46 | 22 15 | 2 0 | 21 40 | 0 50 | 23 29 | 0 58 | 10 34 | 0 52 | 16 6 | 1 59 | 10 34 | 0 25 | 19 6 | 1 26 | 10 19 | 8 32 | 20 56 | 21 5 | 26 7 | | n.a. |
| S 9 | 15 34 | 24 52 | 1 33 | 21 55 | 2 2 | 21 26 | 0 52 | 23 23 | 0 59 | 10 37 | 0 51 | 16 6 | 1 59 | 10 35 | 0 25 | 19 6 | 1 26 | 10 20 | 8 31 | 20 56 | 21 6 | 26 7 | | n.a. |
| S 10 | 15 15 | 21 42 | 0 15 | 21 34 | 2 4 | 21 12 | 0 54 | 23 17 | 0 59 | 10 40 | 0 51 | 16 7 | 1 59 | 10 35 | 0 25 | 19 6 | 1 26 | 10 20 | 8 31 | 20 56 | 21 6 | 26 8 | | n.a. |
| M11 | 14 56 | 17 12 | 1n 4 | 21 10 | 2 6 | 20 58 | 0 56 | 23 11 | 1 0 | 10 43 | 0 51 | 16 7 | 2 0 | 10 36 | 0 25 | 19 6 | 1 26 | 10 20 | 8 31 | 20 56 | 21 7 | 26 8 | | n.a. |
| T 12 | 14 37 | 11 48 | 2 17 | 20 46 | 2 7 | 20 43 | 0 58 | 23 4 | 1 0 | 10 47 | 0 51 | 16 7 | 2 0 | 10 37 | 0 25 | 19 6 | 1 26 | 10 20 | 8 31 | 20 56 | 21 7 | 26 8 | | n.a. |
| W13 | 14 17 | 5 55 | 3 21 | 20 19 | 2 8 | 20 27 | 1 0 | 22 57 | 1 1 | 10 50 | 0 51 | 16 8 | 2 0 | 10 37 | 0 24 | 19 6 | 1 26 | 10 21 | 8 30 | 20 57 | 21 8 | 26 8 | | n.a. |
| T 14 | 13 58 | 0n 6 | 4 12 | 19 51 | 2 8 | 20 10 | 1 2 | 22 50 | 1 1 | 10 54 | 0 50 | 16 8 | 2 0 | 10 38 | 0 24 | 19 6 | 1 26 | 10 21 | 8 30 | 20 58 | 21 9 | 26 8 | | n.a. |
| F 15 | 13 38 | 5 57 | 4 48 | 19 21 | 2 8 | 19 54 | 1 3 | 22 43 | 1 2 | 10 57 | 0 50 | 16 8 | 2 0 | 10 39 | 0 24 | 19 6 | 1 26 | 10 21 | 8 30 | 20 59 | 21 9 | 26 9 | | n.a. |
| S 16 | 13 18 | 11 23 | 5 8 | 18 49 | 2 7 | 19 36 | 1 5 | 22 35 | 1 2 | 11 0 | 0 50 | 16 8 | 2 0 | 10 40 | 0 24 | 19 6 | 1 26 | 10 22 | 8 30 | 20 59 | 21 10 | 26 9 | | n.a. |
| S 17 | 12 57 | 16 12 | 5 13 | 18 15 | 2 6 | 19 18 | 1 7 | 22 27 | 1 3 | 11 4 | 0 50 | 16 9 | 2 1 | 10 40 | 0 24 | 19 6 | 1 26 | 10 22 | 8 29 | 21 0 | 21 10 | 26 9 | | n.a. |
| M18 | 12 37 | 20 15 | 5 3 | 17 40 | 2 4 | 18 59 | 1 8 | 22 19 | 1 3 | 11 7 | 0 49 | 16 9 | 2 1 | 10 41 | 0 24 | 19 6 | 1 26 | 10 22 | 8 29 | 21 1 | 21 11 | 26 9 | | n.a. |
| T 19 | 12 16 | 23 23 | 4 40 | 17 3 | 2 2 | 18 40 | 1 10 | 22 11 | 1 4 | 11 11 | 0 49 | 16 9 | 2 1 | 10 42 | 0 24 | 19 6 | 1 26 | 10 22 | 8 29 | 21 1 | 21 12 | 26 9 | | n.a. |
| W20 | 11 55 | 25 28 | 4 5 | 16 24 | 1 59 | 18 21 | 1 11 | 22 2 | 1 4 | 11 15 | 0 49 | 16 9 | 2 1 | 10 43 | 0 24 | 19 6 | 1 25 | 10 23 | 8 29 | 21 1 | 21 12 | 26 10 | | n.a. |
| T 21 | 11 34 | 26 25 | 3 20 | 15 44 | 1 56 | 18 0 | 1 12 | 21 53 | 1 5 | 11 18 | 0 49 | 16 9 | 2 1 | 10 43 | 0 24 | 19 7 | 1 25 | 10 23 | 8 28 | 21 1 | 21 13 | 26 10 | | n.a. |
| F 22 | 11 13 | 26 8 | 2 26 | 15 2 | 1 52 | 17 40 | 1 14 | 21 44 | 1 5 | 11 22 | 0 49 | 16 9 | 2 1 | 10 44 | 0 24 | 19 7 | 1 25 | 10 23 | 8 28 | 21 0 | 21 13 | 26 10 | | n.a. |
| S 23 | 10 52 | 24 39 | 1 26 | 14 18 | 1 48 | 17 18 | 1 15 | 21 35 | 1 5 | 11 26 | 0 48 | 16 9 | 2 1 | 10 45 | 0 24 | 19 7 | 1 25 | 10 24 | 8 28 | 21 0 | 21 14 | 26 10 | | n.a. |
| S 24 | 10 30 | 22 1 | 0 20 | 13 32 | 1 43 | 16 57 | 1 16 | 21 25 | 1 6 | 11 29 | 0 48 | 16 9 | 2 2 | 10 46 | 0 24 | 19 7 | 1 25 | 10 24 | 8 28 | 21 0 | 21 15 | 26 10 | | n.a. |
| M25 | 10 9 | 18 19 | 0s47 | 12 45 | 1 38 | 16 35 | 1 17 | 21 15 | 1 6 | 11 33 | 0 48 | 16 9 | 2 2 | 10 47 | 0 24 | 19 7 | 1 25 | 10 24 | 8 28 | 21 0 | 21 15 | 26 10 | | n.a. |
| T 26 | 9 47 | 13 44 | 1 53 | 11 56 | 1 32 | 16 12 | 1 18 | 21 5 | 1 7 | 11 37 | 0 48 | 16 9 | 2 2 | 10 48 | 0 24 | 19 7 | 1 25 | 10 25 | 8 27 | 21 0 | 21 16 | 26 10 | | n.a. |
| W27 | 9 25 | 8 27 | 2 55 | 11 6 | 1 25 | 15 49 | 1 19 | 20 55 | 1 7 | 11 41 | 0 47 | 16 9 | 2 2 | 10 48 | 0 24 | 19 7 | 1 25 | 10 25 | 8 27 | 21 1 | 21 16 | 26 11 | | n.a. |
| T 28 | 9s 3 | 2n41 | 3s49 | 10s14 | 1s18 | 15s26 | 1s20 | 20s45 | 1s 8 | 11n45 | 0s47 | 16s 9 | 2n 2 | 10n49 | 0s24 | 19n 8 | 1s25 | 10n25 | 8s27 | 21s 2 | 21s17 | 26n11 | | n.a. |

Julian Day Number = 1693695.5, Delta T = 03h09m09s
Ecliptic obliquity = 23°42'20, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°06'45, Lahiri = - 4°59'44 Julian Calendar 1 Feb. 76 BCE == Greg. Calendar 30 Jan. 076 BCE

The year -75 astronomical counting style corresponds to year 076 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 76 BCE
# geocentric

## MARCH 76 BCE (-75) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 10 23 51 | 7♓58'06 | 27♍55 | 9♓ 3 | 23♒45 | 4♒ 2 | 2♉42 | 20♏40 | 28♈55 | 0♊39 | 22♉29 | 26°R40 | 25♑25 | 15♊11 | n.a. | F 1 |
| S 2 | 10 27 48 | 8°57'12 | 11♎39 | 11° 6 | 24°59 | 4°48 | 2°53 | 20°R41 | 28°58 | 0°39 | 22°29 | 26♑33 | 25°22 | 15°18 | n.a. | S 2 |
| S 3 | 10 31 44 | 9°56'17 | 25°34 | 13° 9 | 26°13 | 5°35 | 3° 3 | 20°41 | 29° 0 | 0°40 | 22°30 | 26°27 | 25°19 | 15°24 | n.a. | S 3 |
| M 4 | 10 35 41 | 10°55'19 | 9♏37 | 15°13 | 27°27 | 6°21 | 3°14 | 20°40 | 29° 3 | 0°41 | 22°30 | 26°21 | 25°15 | 15°31 | n.a. | M 4 |
| T 5 | 10 39 37 | 11°54'20 | 23°44 | 17°17 | 28°42 | 7° 8 | 3°25 | 20°40 | 29° 6 | 0°41 | 22°31 | 26°18 | 25°12 | 15°38 | n.a. | T 5 |
| W 6 | 10 43 34 | 12°53'19 | 7♐53 | 19°21 | 29°56 | 7°55 | 3°36 | 20°40 | 29° 8 | 0°42 | 22°31 | 26°D16 | 25° 9 | 15°44 | n.a. | W 6 |
| T 7 | 10 47 30 | 13°52'16 | 22° 2 | 21°24 | 1♓10 | 8°41 | 3°48 | 20°40 | 29°11 | 0°43 | 22°32 | 26°16 | 25° 6 | 15°51 | n.a. | T 7 |
| F 8 | 10 51 27 | 14°51'11 | 6♑10 | 23°27 | 2°24 | 9°28 | 3°59 | 20°39 | 29°14 | 0°44 | 22°33 | 26°17 | 25° 3 | 15°58 | n.a. | F 8 |
| S 9 | 10 55 24 | 15°50'05 | 20°15 | 25°29 | 3°38 | 10°14 | 4°10 | 20°38 | 29°16 | 0°44 | 22°33 | 26°R18 | 24°59 | 16° 4 | n.a. | S 9 |
| S 10 | 10 59 20 | 16°48'57 | 4♒16 | 27°30 | 4°52 | 11° 1 | 4°22 | 20°38 | 29°19 | 0°45 | 22°34 | 26°18 | 24°56 | 16°11 | n.a. | S 10 |
| M11 | 11 3 17 | 17°47'46 | 18°10 | 29°29 | 6° 6 | 11°48 | 4°33 | 20°37 | 29°22 | 0°46 | 22°35 | 26°16 | 24°53 | 16°18 | n.a. | M11 |
| T 12 | 11 7 13 | 18°46'34 | 1♓56 | 1♈26 | 7°20 | 12°34 | 4°45 | 20°36 | 29°25 | 0°47 | 22°35 | 26°12 | 24°50 | 16°24 | n.a. | T 12 |
| W13 | 11 11 10 | 19°45'20 | 15°30 | 3°21 | 8°34 | 13°21 | 4°57 | 20°35 | 29°27 | 0°48 | 22°36 | 26° 5 | 24°47 | 16°31 | n.a. | W13 |
| T 14 | 11 15 6 | 20°44'03 | 28°50 | 5°14 | 9°48 | 14° 7 | 5° 8 | 20°34 | 29°30 | 0°49 | 22°37 | 25°56 | 24°44 | 16°38 | n.a. | T 14 |
| F 15 | 11 19 3 | 21°42'45 | 11♈54 | 7° 3 | 11° 2 | 14°54 | 5°20 | 20°33 | 29°33 | 0°50 | 22°37 | 25°46 | 24°40 | 16°44 | n.a. | F 15 |
| S 16 | 11 22 59 | 22°41'24 | 24°40 | 8°49 | 12°16 | 15°40 | 5°32 | 20°32 | 29°36 | 0°51 | 22°38 | 25°36 | 24°37 | 16°51 | n.a. | S 16 |
| S 17 | 11 26 56 | 23°40'02 | 7♉10 | 10°31 | 13°30 | 16°26 | 5°44 | 20°30 | 29°39 | 0°52 | 22°39 | 25°27 | 24°34 | 16°58 | n.a. | S 17 |
| M18 | 11 30 52 | 24°38'37 | 19°24 | 12° 9 | 14°44 | 17°13 | 5°56 | 20°29 | 29°42 | 0°53 | 22°40 | 25°20 | 24°31 | 17° 4 | n.a. | M18 |
| T 19 | 11 34 49 | 25°37'10 | 1♊26 | 13°44 | 15°58 | 17°59 | 6° 8 | 20°27 | 29°45 | 0°54 | 22°41 | 25°14 | 24°28 | 17°11 | n.a. | T 19 |
| W20 | 11 38 46 | 26°35'40 | 13°19 | 15°14 | 17°12 | 18°46 | 6°20 | 20°26 | 29°48 | 0°56 | 22°42 | 25°11 | 24°25 | 17°18 | n.a. | W20 |
| T 21 | 11 42 42 | 27°34'09 | 25° 9 | 16°39 | 18°26 | 19°32 | 6°33 | 20°24 | 29°51 | 0°57 | 22°42 | 25°D10 | 24°21 | 17°24 | n.a. | T 21 |
| F 22 | 11 46 39 | 28°32'35 | 7♋ 0 | 18° 0 | 19°40 | 20°18 | 6°45 | 20°22 | 29°54 | 0°58 | 22°43 | 25°11 | 24°18 | 17°31 | n.a. | F 22 |
| S 23 | 11 50 35 | 29°30'59 | 18°57 | 19°16 | 20°54 | 21° 5 | 6°57 | 20°20 | 29°57 | 0°59 | 22°44 | 25°R11 | 24°15 | 17°38 | n.a. | S 23 |
| S 24 | 11 54 32 | 0♈29'21 | 1♌ 7 | 20°26 | 22° 8 | 21°51 | 7°10 | 20°18 | 0♉ 1 | 1° 0 | 22°45 | 25°11 | 24°12 | 17°44 | n.a. | S 24 |
| M25 | 11 58 28 | 1°27'40 | 13°34 | 21°32 | 23°22 | 22°37 | 7°22 | 20°16 | 0° 4 | 1° 2 | 22°46 | 25°10 | 24° 9 | 17°51 | n.a. | M25 |
| T 26 | 12 2 25 | 2°25'58 | 26°21 | 22°33 | 24°36 | 23°23 | 7°35 | 20°14 | 0° 7 | 1° 3 | 22°47 | 25° 6 | 24° 5 | 17°58 | n.a. | T 26 |
| W27 | 12 6 21 | 3°24'13 | 9♍30 | 23°28 | 25°50 | 24° 9 | 7°48 | 20°12 | 0°10 | 1° 4 | 22°48 | 24°59 | 24° 2 | 18° 4 | n.a. | W27 |
| T 28 | 12 10 18 | 4°22'26 | 23° 3 | 24°18 | 27° 4 | 24°55 | 8° 0 | 20° 9 | 0°13 | 1° 6 | 22°49 | 24°51 | 23°59 | 18°11 | n.a. | T 28 |
| F 29 | 12 14 15 | 5°20'38 | 6♎56 | 25° 3 | 28°18 | 25°42 | 8°13 | 20° 7 | 0°16 | 1° 7 | 22°50 | 24°40 | 23°56 | 18°18 | n.a. | F 29 |
| S 30 | 12 18 11 | 6°18'47 | 21° 7 | 25°42 | 29°32 | 26°28 | 8°26 | 20° 4 | 0°20 | 1° 9 | 22°51 | 24°29 | 23°53 | 18°24 | n.a. | S 30 |
| S 31 | 12 22 8 | 7♈16'55 | 5♏30 | 26♈16 | 0♈46 | 27♒14 | 8♉38 | 20♏ 2 | 0♉23 | 1♊10 | 22♉52 | 24♑19 | 23♑50 | 18♊31 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 8s40 | 3s18 | 4s31 | 9s21 | 1s10 | 15s 2 | 1s21 | 20s34 | 1s 8 | 11n48 | 0s47 | 16s 9 | 2n 2 | 10n50 | 0s24 | 19n 8 | 1s25 | 10n26 | 8s27 | 21s 3 | 21s18 | 26n11 | | n.a. |
| S 2 | 8 18 | 9 13 | 4 59 | 8 26 | 1 2 | 14 37 | 1 22 | 20 23 | 1 9 | 11 52 | 0 47 | 16 9 | 2 2 | 10 51 | 0 24 | 19 8 | 1 25 | 10 26 | 8 26 | 21 5 | 21 18 | 26 11 | | n.a. |
| S 3 | 7 56 | 14 46 | 5 9 | 7 31 | 0 53 | 14 13 | 1 23 | 20 12 | 1 9 | 11 56 | 0 47 | 16 9 | 2 3 | 10 52 | 0 24 | 19 8 | 1 25 | 10 26 | 8 26 | 21 6 | 21 19 | 26 11 | | n.a. |
| M 4 | 7 33 | 19 36 | 5 1 | 6 34 | 0 44 | 13 48 | 1 24 | 20 1 | 1 9 | 12 0 | 0 46 | 16 9 | 2 3 | 10 53 | 0 24 | 19 8 | 1 25 | 10 27 | 8 26 | 21 7 | 21 19 | 26 11 | | n.a. |
| T 5 | 7 10 | 23 20 | 4 34 | 5 37 | 0 35 | 13 22 | 1 24 | 19 49 | 1 10 | 12 4 | 0 46 | 16 9 | 2 3 | 10 54 | 0 24 | 19 8 | 1 25 | 10 27 | 8 26 | 21 8 | 21 20 | 26 11 | | n.a. |
| W 6 | 6 48 | 25 40 | 3 51 | 4 38 | 0 24 | 12 57 | 1 25 | 19 37 | 1 10 | 12 8 | 0 46 | 16 8 | 2 3 | 10 55 | 0 24 | 19 9 | 1 25 | 10 27 | 8 26 | 21 8 | 21 20 | 26 11 | | n.a. |
| T 7 | 6 25 | 26 22 | 2 54 | 3 39 | 0 14 | 12 30 | 1 25 | 19 25 | 1 10 | 12 12 | 0 46 | 16 8 | 2 3 | 10 56 | 0 24 | 19 9 | 1 25 | 10 28 | 8 25 | 21 8 | 21 21 | 26 11 | | n.a. |
| F 8 | 6 2 | 25 20 | 1 47 | 2 40 | 0 3 | 12 4 | 1 26 | 19 13 | 1 11 | 12 16 | 0 46 | 16 8 | 2 3 | 10 57 | 0 24 | 19 9 | 1 25 | 10 28 | 8 25 | 21 8 | 21 22 | 26 11 | | n.a. |
| S 9 | 5 39 | 22 42 | 0 33 | 1 41 | 0n 8 | 11 37 | 1 26 | 19 1 | 1 11 | 12 20 | 0 45 | 16 8 | 2 3 | 10 58 | 0 24 | 19 9 | 1 25 | 10 28 | 8 25 | 21 7 | 21 22 | 26 11 | | n.a. |
| S 10 | 5 16 | 18 43 | 0n43 | 0 42 | 0 20 | 11 10 | 1 26 | 18 48 | 1 12 | 12 24 | 0 45 | 16 7 | 2 4 | 10 59 | 0 24 | 19 10 | 1 24 | 10 29 | 8 25 | 21 7 | 21 23 | 26 11 | | n.a. |
| M11 | 4 53 | 13 44 | 1 55 | 0n16 | 0 31 | 10 43 | 1 27 | 18 36 | 1 12 | 12 28 | 0 45 | 16 7 | 2 4 | 11 0 | 0 24 | 19 10 | 1 24 | 10 29 | 8 24 | 21 8 | 21 23 | 26 11 | | n.a. |
| T 12 | 4 29 | 8 7 | 2 59 | 1 14 | 0 43 | 10 15 | 1 27 | 18 23 | 1 12 | 12 33 | 0 45 | 16 7 | 2 4 | 11 1 | 0 24 | 19 10 | 1 24 | 10 29 | 8 24 | 21 9 | 21 24 | 26 11 | | n.a. |
| W13 | 4 6 | 2 12 | 3 53 | 2 11 | 0 54 | 9 47 | 1 27 | 18 10 | 1 13 | 12 37 | 0 45 | 16 6 | 2 4 | 11 2 | 0 24 | 19 10 | 1 24 | 10 30 | 8 24 | 21 10 | 21 25 | 26 11 | | n.a. |
| T 14 | 3 43 | 3n41 | 4 32 | 3 6 | 1 6 | 9 19 | 1 27 | 17 56 | 1 13 | 12 41 | 0 45 | 16 6 | 2 4 | 11 3 | 0 24 | 19 11 | 1 24 | 10 30 | 8 24 | 21 12 | 21 25 | 26 11 | | n.a. |
| F 15 | 3 19 | 9 17 | 4 56 | 4 1 | 1 17 | 8 51 | 1 27 | 17 43 | 1 13 | 12 45 | 0 44 | 16 5 | 2 4 | 11 4 | 0 24 | 19 11 | 1 24 | 10 31 | 8 24 | 21 14 | 21 26 | 26 11 | | n.a. |
| S 16 | 2 56 | 14 22 | 5 5 | 4 53 | 1 29 | 8 22 | 1 27 | 17 29 | 1 14 | 12 49 | 0 44 | 16 5 | 2 4 | 11 5 | 0 24 | 19 11 | 1 24 | 10 31 | 8 23 | 21 15 | 21 26 | 26 11 | | n.a. |
| S 17 | 2 32 | 18 45 | 4 59 | 5 44 | 1 39 | 7 53 | 1 27 | 17 15 | 1 14 | 12 53 | 0 44 | 16 4 | 2 5 | 11 6 | 0 24 | 19 11 | 1 24 | 10 31 | 8 23 | 21 17 | 21 27 | 26 11 | | n.a. |
| M18 | 2 9 | 22 14 | 4 39 | 6 32 | 1 50 | 7 24 | 1 27 | 17 2 | 1 14 | 12 57 | 0 44 | 16 4 | 2 5 | 11 7 | 0 24 | 19 12 | 1 24 | 10 32 | 8 23 | 21 19 | 21 27 | 26 11 | | n.a. |
| T 19 | 1 46 | 24 42 | 4 7 | 7 18 | 2 0 | 6 55 | 1 26 | 16 47 | 1 15 | 13 2 | 0 44 | 16 3 | 2 5 | 11 8 | 0 24 | 19 12 | 1 24 | 10 32 | 8 23 | 21 19 | 21 28 | 26 11 | | n.a. |
| W20 | 1 22 | 26 2 | 3 24 | 8 2 | 2 9 | 6 26 | 1 26 | 16 33 | 1 15 | 13 6 | 0 44 | 16 3 | 2 5 | 11 9 | 0 24 | 19 12 | 1 24 | 10 33 | 8 23 | 21 20 | 21 29 | 26 11 | | n.a. |
| T 21 | 0 59 | 26 10 | 2 33 | 8 44 | 2 18 | 5 56 | 1 26 | 16 19 | 1 15 | 13 10 | 0 43 | 16 2 | 2 5 | 11 11 | 0 24 | 19 12 | 1 24 | 10 33 | 8 22 | 21 20 | 21 29 | 26 11 | | n.a. |
| F 22 | 0 35 | 25 7 | 1 36 | 9 22 | 2 26 | 5 26 | 1 25 | 16 4 | 1 15 | 13 14 | 0 43 | 16 2 | 2 5 | 11 12 | 0 24 | 19 13 | 1 24 | 10 33 | 8 22 | 21 20 | 21 30 | 26 11 | | n.a. |
| S 23 | 0 12 | 22 54 | 0 33 | 9 58 | 2 33 | 4 56 | 1 25 | 15 49 | 1 16 | 13 19 | 0 43 | 16 1 | 2 5 | 11 13 | 0 24 | 19 13 | 1 24 | 10 34 | 8 22 | 21 20 | 21 30 | 26 11 | | n.a. |
| S 24 | 0n12 | 19 37 | 0s32 | 10 32 | 2 39 | 4 26 | 1 24 | 15 35 | 1 16 | 13 23 | 0 43 | 16 0 | 2 5 | 11 14 | 0 24 | 19 13 | 1 24 | 10 34 | 8 22 | 21 20 | 21 31 | 26 11 | | n.a. |
| M25 | 0 35 | 15 24 | 1 36 | 11 2 | 2 45 | 3 56 | 1 23 | 15 20 | 1 16 | 13 27 | 0 43 | 16 0 | 2 6 | 11 15 | 0 24 | 19 14 | 1 24 | 10 35 | 8 22 | 21 20 | 21 31 | 26 11 | | n.a. |
| T 26 | 0 59 | 10 24 | 2 38 | 11 29 | 2 50 | 3 26 | 1 23 | 15 4 | 1 16 | 13 31 | 0 43 | 15 59 | 2 6 | 11 16 | 0 24 | 19 14 | 1 24 | 10 35 | 8 21 | 21 21 | 21 32 | 26 11 | | n.a. |
| W27 | 1 22 | 4 49 | 3 33 | 11 54 | 2 54 | 2 56 | 1 22 | 14 49 | 1 17 | 13 36 | 0 42 | 15 58 | 2 6 | 11 17 | 0 24 | 19 14 | 1 24 | 10 35 | 8 21 | 21 22 | 21 32 | 26 11 | | n.a. |
| T 28 | 1 45 | 1s 8 | 4 17 | 12 15 | 2 56 | 2 25 | 1 21 | 14 34 | 1 17 | 13 40 | 0 42 | 15 58 | 2 6 | 11 18 | 0 24 | 19 15 | 1 24 | 10 36 | 8 21 | 21 24 | 21 33 | 26 11 | | n.a. |
| F 29 | 2 9 | 7 11 | 4 48 | 12 33 | 2 58 | 1 55 | 1 20 | 14 18 | 1 17 | 13 44 | 0 42 | 15 57 | 2 6 | 11 20 | 0 24 | 19 15 | 1 23 | 10 36 | 8 21 | 21 26 | 21 34 | 26 10 | | n.a. |
| S 30 | 2 32 | 12 58 | 5 1 | 12 49 | 2 59 | 1 24 | 1 19 | 14 3 | 1 17 | 13 49 | 0 42 | 15 56 | 2 6 | 11 21 | 0 24 | 19 15 | 1 23 | 10 37 | 8 21 | 21 28 | 21 34 | 26 10 | | n.a. |
| S 31 | 2n55 | 18s 8 | 4s56 | 13n 1 | 2n58 | 0s53 | 1s18 | 13s47 | 1s18 | 13n53 | 0s42 | 15s55 | 2n 6 | 11n22 | 0s23 | 19n16 | 1s23 | 10n37 | 8s21 | 21s30 | 21s35 | 26n10 | | n.a. |

Julian Day Number = 1693723.5, Delta T = 03h09m08s
Ecliptic obliquity = 23°42'20, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°06'41, Lahiri = - 4°59'41 Julian Calendar 1 March 76 BCE == Greg. Calendar 27 Feb. 076 BCE

The year -75 astronomical counting style corresponds to year 076 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 76 BCE
# geocentric

## APRIL 76 BCE (-75) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 12 26 4 | 8♈15'01 | 19♏58 | 26♈44 | 1♈59 | 28♒ 0 | 8♉51 | 19°R59 | 0♉26 | 1♊12 | 22♉53 | 24°R10 | 23♑46 | 18♊38 | n.a. | M 1 |
| T 2 | 12 30 1 | 9°13'06 | 4♐25 | 27° 7 | 3°13 | 28°46 | 9° 4 | 19♏56 | 0°30 | 1°13 | 22°54 | 24♑ 4 | 23°43 | 18°44 | n.a. | T 2 |
| W 3 | 12 33 57 | 10°11'10 | 18°47 | 27°24 | 4°27 | 29°32 | 9°17 | 19°54 | 0°33 | 1°15 | 22°55 | 24° 0 | 23°40 | 18°51 | n.a. | W 3 |
| T 4 | 12 37 54 | 11° 9'11 | 3♑ 1 | 27°36 | 5°41 | 0♓18 | 9°30 | 19°51 | 0°36 | 1°16 | 22°56 | 23°59 | 23°37 | 18°58 | n.a. | T 4 |
| F 5 | 12 41 50 | 12° 7'12 | 17° 5 | 27°43 | 6°55 | 1° 3 | 9°43 | 19°48 | 0°40 | 1°18 | 22°57 | 23°59 | 23°34 | 19° 4 | n.a. | F 5 |
| S 6 | 12 45 47 | 13° 5'11 | 0♒57 | 27°R44 | 8° 9 | 1°49 | 9°56 | 19°45 | 0°43 | 1°19 | 22°58 | 23°59 | 23°30 | 19°11 | n.a. | S 6 |
| S 7 | 12 49 44 | 14° 3'08 | 14°40 | 27°40 | 9°23 | 2°35 | 10°10 | 19°42 | 0°46 | 1°21 | 23° 0 | 23°57 | 23°27 | 19°18 | n.a. | S 7 |
| M 8 | 12 53 40 | 15° 1'04 | 28°12 | 27°31 | 10°36 | 3°21 | 10°23 | 19°38 | 0°50 | 1°23 | 23° 1 | 23°54 | 23°24 | 19°24 | n.a. | M 8 |
| T 9 | 12 57 37 | 15°58'59 | 11♓33 | 27°18 | 11°50 | 4° 7 | 10°36 | 19°35 | 0°53 | 1°24 | 23° 2 | 23°48 | 23°21 | 19°31 | n.a. | T 9 |
| W10 | 13 1 33 | 16°56'52 | 24°44 | 27° 0 | 13° 4 | 4°52 | 10°49 | 19°32 | 0°56 | 1°26 | 23° 3 | 23°39 | 23°18 | 19°38 | n.a. | W10 |
| T 11 | 13 5 30 | 17°54'44 | 7♈43 | 26°38 | 14°18 | 5°38 | 11° 3 | 19°29 | 1° 0 | 1°28 | 23° 4 | 23°27 | 23°15 | 19°44 | n.a. | T 11 |
| F 12 | 13 9 26 | 18°52'34 | 20°29 | 26°13 | 15°32 | 6°24 | 11°16 | 19°25 | 1° 3 | 1°29 | 23° 5 | 23°14 | 23°11 | 19°51 | n.a. | F 12 |
| S 13 | 13 13 23 | 19°50'22 | 3♉ 2 | 25°44 | 16°45 | 7° 9 | 11°29 | 19°22 | 1° 7 | 1°31 | 23° 7 | 23° 1 | 23° 8 | 19°58 | n.a. | S 13 |
| S 14 | 13 17 19 | 20°48'10 | 15°23 | 25°13 | 17°59 | 7°55 | 11°43 | 19°18 | 1°10 | 1°33 | 23° 8 | 22°48 | 23° 5 | 20° 4 | n.a. | S 14 |
| M15 | 13 21 16 | 21°45'55 | 27°31 | 24°40 | 19°13 | 8°40 | 11°56 | 19°14 | 1°14 | 1°35 | 23° 9 | 22°38 | 23° 2 | 20°11 | n.a. | M15 |
| T 16 | 13 25 12 | 22°43'39 | 9♊29 | 24° 6 | 20°27 | 9°26 | 12°10 | 19°11 | 1°17 | 1°36 | 23°10 | 22°30 | 22°59 | 20°18 | n.a. | T 16 |
| W17 | 13 29 9 | 23°41'21 | 21°20 | 23°31 | 21°41 | 10°11 | 12°23 | 19° 7 | 1°21 | 1°38 | 23°11 | 22°24 | 22°56 | 20°24 | n.a. | W17 |
| T 18 | 13 33 6 | 24°39'02 | 3♋ 8 | 22°55 | 22°54 | 10°56 | 12°37 | 19° 3 | 1°24 | 1°40 | 23°13 | 22°22 | 22°52 | 20°31 | n.a. | T 18 |
| F 19 | 13 37 2 | 25°36'41 | 14°58 | 22°20 | 24° 8 | 11°42 | 12°50 | 18°59 | 1°28 | 1°42 | 23°14 | 22°21 | 22°49 | 20°38 | n.a. | F 19 |
| S 20 | 13 40 59 | 26°34'18 | 26°54 | 21°47 | 25°22 | 12°27 | 13° 4 | 18°56 | 1°31 | 1°44 | 23°15 | 22°21 | 22°46 | 20°44 | n.a. | S 20 |
| S 21 | 13 44 55 | 27°31'54 | 9♌ 3 | 21°14 | 26°36 | 13°12 | 13°17 | 18°52 | 1°35 | 1°46 | 23°17 | 22°20 | 22°43 | 20°51 | n.a. | S 21 |
| M22 | 13 48 52 | 28°29'28 | 21°30 | 20°44 | 27°49 | 13°57 | 13°31 | 18°48 | 1°38 | 1°48 | 23°18 | 22°19 | 22°40 | 20°58 | n.a. | M22 |
| T 23 | 13 52 48 | 29°27'00 | 4♍19 | 20°16 | 29° 3 | 14°42 | 13°45 | 18°44 | 1°42 | 1°50 | 23°19 | 22°15 | 22°36 | 21° 4 | n.a. | T 23 |
| W24 | 13 56 45 | 0♉24'31 | 17°34 | 19°52 | 0♉17 | 15°27 | 13°58 | 18°40 | 1°45 | 1°52 | 23°20 | 22° 9 | 22°33 | 21°11 | n.a. | W24 |
| T 25 | 14 0 41 | 1°22'01 | 1♎16 | 19°31 | 1°31 | 16°12 | 14°12 | 18°36 | 1°48 | 1°54 | 23°22 | 22° 0 | 22°30 | 21°18 | n.a. | T 25 |
| F 26 | 14 4 38 | 2°19'29 | 15°24 | 19°13 | 2°44 | 16°57 | 14°26 | 18°31 | 1°52 | 1°56 | 23°23 | 21°50 | 22°27 | 21°24 | n.a. | F 26 |
| S 27 | 14 8 35 | 3°16'56 | 29°54 | 19° 0 | 3°58 | 17°42 | 14°40 | 18°27 | 1°55 | 1°58 | 23°24 | 21°39 | 22°24 | 21°31 | n.a. | S 27 |
| S 28 | 14 12 31 | 4°14'22 | 14♏39 | 18°51 | 5°12 | 18°27 | 14°53 | 18°23 | 1°59 | 2° 0 | 23°26 | 21°28 | 22°21 | 21°38 | n.a. | S 28 |
| M29 | 14 16 28 | 5°11'47 | 29°31 | 18°46 | 6°25 | 19°12 | 15° 7 | 18°19 | 2° 2 | 2° 2 | 23°27 | 21°20 | 22°17 | 21°44 | n.a. | M29 |
| T 30 | 14 20 24 | 6♉ 9'10 | 14♐22 | 18°D45 | 7♉39 | 19♓57 | 15♉21 | 18♏15 | 2♉ 6 | 2♊ 4 | 23♉28 | 21♑13 | 22♑14 | 21♊51 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 3n18 | 22s17 | 4s32 | 13n10 | 2n57 | 0s23 | 1s17 | 13s31 | 1s18 | 13n57 | 0s42 | 15s54 | 2n 6 | 11n23 | 0s23 | 19n16 | 1s23 | 10n38 | 8s20 | 21s31 | 21s35 | 26n10 | | n.a. |
| T 2 | 3 42 | 25 2 | 3 51 | 13 16 | 2 54 | 0n 8 | 1 16 | 13 15 | 1 18 | 14 1 | 0 41 | 15 54 | 2 6 | 11 24 | 0 23 | 19 16 | 1 23 | 10 38 | 8 20 | 21 32 | 21 36 | 26 10 | | n.a. |
| W 3 | 4 5 | 26 8 | 2 55 | 13 18 | 2 50 | 0 39 | 1 15 | 12 59 | 1 18 | 14 6 | 0 41 | 15 53 | 2 6 | 11 26 | 0 23 | 19 17 | 1 23 | 10 38 | 8 20 | 21 33 | 21 36 | 26 10 | | n.a. |
| T 4 | 4 28 | 25 29 | 1 49 | 13 18 | 2 45 | 1 9 | 1 14 | 12 43 | 1 18 | 14 10 | 0 41 | 15 52 | 2 7 | 11 27 | 0 23 | 19 17 | 1 23 | 10 39 | 8 20 | 21 33 | 21 37 | 26 10 | | n.a. |
| F 5 | 4 51 | 23 12 | 0 37 | 13 14 | 2 38 | 1 40 | 1 13 | 12 26 | 1 18 | 14 14 | 0 41 | 15 51 | 2 7 | 11 28 | 0 23 | 19 17 | 1 23 | 10 39 | 8 20 | 21 33 | 21 37 | 26 10 | | n.a. |
| S 6 | 5 13 | 19 34 | 0n37 | 13 7 | 2 31 | 2 11 | 1 11 | 12 10 | 1 19 | 14 19 | 0 41 | 15 50 | 2 7 | 11 29 | 0 23 | 19 18 | 1 23 | 10 40 | 8 20 | 21 33 | 21 38 | 26 9 | | n.a. |
| S 7 | 5 36 | 14 55 | 1 47 | 12 58 | 2 22 | 2 41 | 1 10 | 11 53 | 1 19 | 14 23 | 0 41 | 15 49 | 2 7 | 11 30 | 0 23 | 19 18 | 1 23 | 10 40 | 8 19 | 21 33 | 21 39 | 26 9 | | n.a. |
| M 8 | 5 59 | 9 34 | 2 50 | 12 45 | 2 12 | 3 12 | 1 8 | 11 37 | 1 19 | 14 27 | 0 41 | 15 48 | 2 7 | 11 32 | 0 23 | 19 19 | 1 23 | 10 41 | 8 19 | 21 34 | 21 39 | 26 9 | | n.a. |
| T 9 | 6 21 | 3 52 | 3 43 | 12 30 | 2 1 | 3 42 | 1 7 | 11 20 | 1 19 | 14 32 | 0 41 | 15 47 | 2 7 | 11 33 | 0 23 | 19 19 | 1 23 | 10 41 | 8 19 | 21 35 | 21 40 | 26 9 | | n.a. |
| W10 | 6 44 | 1n54 | 4 23 | 12 12 | 1 48 | 4 13 | 1 5 | 11 3 | 1 19 | 14 36 | 0 40 | 15 46 | 2 7 | 11 34 | 0 23 | 19 19 | 1 23 | 10 41 | 8 19 | 21 37 | 21 40 | 26 9 | | n.a. |
| T 11 | 7 6 | 7 30 | 4 49 | 11 51 | 1 35 | 4 43 | 1 4 | 10 47 | 1 19 | 14 40 | 0 40 | 15 45 | 2 7 | 11 35 | 0 23 | 19 20 | 1 23 | 10 42 | 8 19 | 21 39 | 21 41 | 26 8 | | n.a. |
| F 12 | 7 28 | 12 42 | 5 0 | 11 29 | 1 21 | 5 13 | 1 2 | 10 30 | 1 19 | 14 45 | 0 40 | 15 44 | 2 7 | 11 36 | 0 23 | 19 20 | 1 23 | 10 42 | 8 19 | 21 41 | 21 41 | 26 8 | | n.a. |
| S 13 | 7 51 | 17 17 | 4 56 | 11 4 | 1 6 | 5 44 | 1 1 | 10 13 | 1 20 | 14 49 | 0 40 | 15 43 | 2 7 | 11 38 | 0 23 | 19 21 | 1 23 | 10 43 | 8 18 | 21 43 | 21 42 | 26 8 | | n.a. |
| S 14 | 8 13 | 21 2 | 4 38 | 10 38 | 0 50 | 6 14 | 0 59 | 9 55 | 1 20 | 14 53 | 0 40 | 15 42 | 2 7 | 11 39 | 0 23 | 19 21 | 1 23 | 10 43 | 8 18 | 21 45 | 21 42 | 26 8 | | n.a. |
| M15 | 8 34 | 23 50 | 4 7 | 10 11 | 0 33 | 6 44 | 0 57 | 9 38 | 1 20 | 14 57 | 0 40 | 15 41 | 2 7 | 11 40 | 0 23 | 19 21 | 1 23 | 10 44 | 8 18 | 21 47 | 21 43 | 26 8 | | n.a. |
| T 16 | 8 56 | 25 31 | 3 26 | 9 42 | 0 16 | 7 13 | 0 55 | 9 21 | 1 20 | 15 2 | 0 40 | 15 40 | 2 7 | 11 41 | 0 23 | 19 22 | 1 23 | 10 44 | 8 18 | 21 48 | 21 43 | 26 7 | | n.a. |
| W17 | 9 18 | 26 1 | 2 36 | 9 13 | 0s 1 | 7 43 | 0 53 | 9 4 | 1 20 | 15 6 | 0 39 | 15 39 | 2 7 | 11 42 | 0 23 | 19 22 | 1 23 | 10 44 | 8 18 | 21 49 | 21 44 | 26 7 | | n.a. |
| T 18 | 9 39 | 25 20 | 1 40 | 8 44 | 0 18 | 8 12 | 0 52 | 8 46 | 1 20 | 15 10 | 0 39 | 15 38 | 2 7 | 11 44 | 0 23 | 19 23 | 1 23 | 10 45 | 8 18 | 21 50 | 21 44 | 26 7 | | n.a. |
| F 19 | 10 0 | 23 30 | 0 39 | 8 15 | 0 35 | 8 42 | 0 50 | 8 29 | 1 20 | 15 14 | 0 39 | 15 37 | 2 7 | 11 45 | 0 23 | 19 23 | 1 23 | 10 45 | 8 18 | 21 50 | 21 45 | 26 7 | | n.a. |
| S 20 | 10 22 | 20 37 | 0s24 | 7 46 | 0 52 | 9 11 | 0 48 | 8 12 | 1 20 | 15 19 | 0 39 | 15 36 | 2 8 | 11 46 | 0 23 | 19 23 | 1 23 | 10 46 | 8 18 | 21 50 | 21 46 | 26 6 | | n.a. |
| S 21 | 10 43 | 16 47 | 1 27 | 7 19 | 1 9 | 9 40 | 0 46 | 7 54 | 1 20 | 15 23 | 0 39 | 15 35 | 2 8 | 11 47 | 0 23 | 19 24 | 1 23 | 10 46 | 8 17 | 21 50 | 21 46 | 26 6 | | n.a. |
| M22 | 11 3 | 12 10 | 2 28 | 6 53 | 1 25 | 10 8 | 0 44 | 7 37 | 1 20 | 15 27 | 0 39 | 15 34 | 2 8 | 11 49 | 0 23 | 19 24 | 1 22 | 10 47 | 8 17 | 21 50 | 21 47 | 26 6 | | n.a. |
| T 23 | 11 24 | 6 53 | 3 23 | 6 28 | 1 40 | 10 37 | 0 42 | 7 19 | 1 20 | 15 31 | 0 39 | 15 33 | 2 8 | 11 50 | 0 23 | 19 25 | 1 22 | 10 47 | 8 17 | 21 51 | 21 47 | 26 5 | | n.a. |
| W24 | 11 44 | 1 9 | 4 9 | 6 5 | 1 55 | 11 5 | 0 40 | 7 1 | 1 20 | 15 36 | 0 39 | 15 32 | 2 8 | 11 51 | 0 23 | 19 25 | 1 22 | 10 47 | 8 17 | 21 52 | 21 48 | 26 5 | | n.a. |
| T 25 | 12 5 | 4s49 | 4 42 | 5 44 | 2 9 | 11 33 | 0 38 | 6 44 | 1 20 | 15 40 | 0 39 | 15 30 | 2 8 | 11 52 | 0 23 | 19 26 | 1 22 | 10 48 | 8 17 | 21 53 | 21 48 | 26 5 | | n.a. |
| F 26 | 12 25 | 10 43 | 4 59 | 5 25 | 2 22 | 12 0 | 0 35 | 6 26 | 1 20 | 15 44 | 0 38 | 15 29 | 2 8 | 11 54 | 0 23 | 19 26 | 1 22 | 10 48 | 8 17 | 21 55 | 21 49 | 26 5 | | n.a. |
| S 27 | 12 45 | 16 12 | 4 58 | 5 9 | 2 34 | 12 28 | 0 33 | 6 8 | 1 20 | 15 48 | 0 38 | 15 28 | 2 8 | 11 55 | 0 23 | 19 26 | 1 22 | 10 49 | 8 17 | 21 57 | 21 49 | 26 4 | | n.a. |
| S 28 | 13 4 | 20 49 | 4 37 | 4 56 | 2 45 | 12 55 | 0 31 | 5 51 | 1 20 | 15 52 | 0 38 | 15 27 | 2 8 | 11 56 | 0 23 | 19 27 | 1 22 | 10 49 | 8 17 | 21 58 | 21 50 | 26 4 | | n.a. |
| M29 | 13 24 | 24 8 | 3 57 | 4 44 | 2 55 | 13 21 | 0 29 | 5 33 | 1 20 | 15 57 | 0 38 | 15 26 | 2 8 | 11 57 | 0 23 | 19 27 | 1 22 | 10 50 | 8 16 | 22 0 | 21 50 | 26 4 | | n.a. |
| T 30 | 13n43 | 25s47 | 3s 2 | 4n36 | 3s 3 | 13n48 | 0s27 | 5s15 | 1s20 | 16n 1 | 0s38 | 15s25 | 2n 8 | 11n58 | 0s23 | 19n28 | 1s22 | 10n50 | 8s16 | 22s 1 | 21s51 | 26n 3 | | n.a. |

Julian Day Number = 1693754.5, Delta T = 03h09m08s
Ecliptic obliquity = 23°42'20, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°06'37, Lahiri = - 4°59'36 Julian Calendar 1 Apr. 76 BCE == Greg. Calendar 30 March 076 BCE

The year -75 astronomical counting style corresponds to year 076 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 76 BCE
# geocentric

## MAY 76 BCE (-75) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 14 24 21 | 7♉ 6'33 | 29♐ 4 | 18♈49 | 8♉53 | 20♓41 | 15♉35 | 18°R10 | 2♉ 9 | 2♊ 6 | 23♉30 | 21°R 9 | 22♑11 | 21♊58 | n.a. | W 1 |
| T 2 | 14 28 17 | 8° 3'56 | 13♑32 | 18°58 | 10° 6 | 21°26 | 15°48 | 18♏ 6 | 2°13 | 2° 8 | 23°31 | 21♑ 8 | 22° 8 | 22° 4 | n.a. | T 2 |
| F 3 | 14 32 14 | 9° 1'17 | 27°43 | 19°11 | 11°20 | 22°11 | 16° 2 | 18° 2 | 2°16 | 2°10 | 23°33 | 21°D 8 | 22° 5 | 22°11 | n.a. | F 3 |
| S 4 | 14 36 11 | 9°58'38 | 11♒36 | 19°28 | 12°34 | 22°55 | 16°16 | 17°57 | 2°20 | 2°12 | 23°34 | 21°R 8 | 22° 2 | 22°18 | n.a. | S 4 |
| S 5 | 14 40 7 | 10°55'58 | 25°11 | 19°50 | 13°48 | 23°40 | 16°30 | 17°53 | 2°23 | 2°14 | 23°35 | 21° 7 | 21°58 | 22°24 | n.a. | S 5 |
| M 6 | 14 44 4 | 11°53'18 | 8♓30 | 20°16 | 15° 1 | 24°24 | 16°44 | 17°49 | 2°27 | 2°16 | 23°37 | 21° 4 | 21°55 | 22°31 | n.a. | M 6 |
| T 7 | 14 48 0 | 12°50'37 | 21°35 | 20°47 | 16°15 | 25° 8 | 16°57 | 17°44 | 2°30 | 2°18 | 23°38 | 20°59 | 21°52 | 22°38 | n.a. | T 7 |
| W 8 | 14 51 57 | 13°47'55 | 4♈27 | 21°22 | 17°29 | 25°53 | 17°11 | 17°40 | 2°34 | 2°20 | 23°39 | 20°51 | 21°49 | 22°44 | n.a. | W 8 |
| T 9 | 14 55 53 | 14°45'12 | 17° 6 | 22° 0 | 18°42 | 26°37 | 17°25 | 17°36 | 2°37 | 2°23 | 23°41 | 20°41 | 21°46 | 22°51 | n.a. | T 9 |
| F 10 | 14 59 50 | 15°42'29 | 29°35 | 22°43 | 19°56 | 27°21 | 17°39 | 17°31 | 2°41 | 2°25 | 23°42 | 20°30 | 21°42 | 22°58 | n.a. | F 10 |
| S 11 | 15 3 46 | 16°39'45 | 11♉53 | 23°30 | 21°10 | 28° 5 | 17°53 | 17°27 | 2°44 | 2°27 | 23°44 | 20°19 | 21°39 | 23° 4 | n.a. | S 11 |
| S 12 | 15 7 43 | 17°37'01 | 24° 1 | 24°20 | 22°23 | 28°49 | 18° 7 | 17°22 | 2°47 | 2°29 | 23°45 | 20° 8 | 21°36 | 23°11 | n.a. | S 12 |
| M13 | 15 11 40 | 18°34'16 | 6♊ 1 | 25°15 | 23°37 | 29°33 | 18°21 | 17°18 | 2°51 | 2°31 | 23°46 | 19°59 | 21°33 | 23°18 | n.a. | M13 |
| T 14 | 15 15 36 | 19°31'30 | 17°54 | 26°13 | 24°51 | 0♈17 | 18°34 | 17°13 | 2°54 | 2°33 | 23°48 | 19°52 | 21°30 | 23°24 | n.a. | T 14 |
| W15 | 15 19 33 | 20°28'44 | 29°42 | 27°14 | 26° 4 | 1° 1 | 18°48 | 17° 9 | 2°58 | 2°36 | 23°49 | 19°47 | 21°27 | 23°31 | n.a. | W15 |
| T 16 | 15 23 29 | 21°25'56 | 11♋29 | 28°19 | 27°18 | 1°45 | 19° 2 | 17° 5 | 3° 1 | 2°38 | 23°51 | 19°45 | 21°23 | 23°38 | n.a. | T 16 |
| F 17 | 15 27 26 | 22°23'08 | 23°18 | 29°28 | 28°32 | 2°29 | 19°16 | 17° 0 | 3° 4 | 2°40 | 23°52 | 19°D45 | 21°20 | 23°44 | n.a. | F 17 |
| S 18 | 15 31 22 | 23°20'20 | 5♌15 | 0♉39 | 29°45 | 3°13 | 19°30 | 16°56 | 3° 8 | 2°42 | 23°53 | 19°46 | 21°17 | 23°51 | n.a. | S 18 |
| S 19 | 15 35 19 | 24°17'30 | 17°23 | 1°55 | 0♊59 | 3°56 | 19°44 | 16°52 | 3°11 | 2°44 | 23°55 | 19°46 | 21°14 | 23°58 | n.a. | S 19 |
| M20 | 15 39 15 | 25°14'40 | 29°48 | 3°13 | 2°13 | 4°40 | 19°57 | 16°47 | 3°14 | 2°47 | 23°56 | 19°R46 | 21°11 | 24° 4 | n.a. | M20 |
| T 21 | 15 43 12 | 26°11'48 | 12♍34 | 4°35 | 3°26 | 5°23 | 20°11 | 16°43 | 3°18 | 2°49 | 23°58 | 19°45 | 21° 7 | 24°11 | n.a. | T 21 |
| W22 | 15 47 9 | 27° 8'57 | 25°47 | 6° 0 | 4°40 | 6° 7 | 20°25 | 16°39 | 3°21 | 2°51 | 23°59 | 19°42 | 21° 4 | 24°18 | n.a. | W22 |
| T 23 | 15 51 5 | 28° 6'04 | 9♎29 | 7°28 | 5°54 | 6°50 | 20°39 | 16°34 | 3°24 | 2°53 | 24° 1 | 19°37 | 21° 1 | 24°24 | n.a. | T 23 |
| F 24 | 15 55 2 | 29° 3'11 | 23°39 | 9° 0 | 7° 7 | 7°33 | 20°52 | 16°30 | 3°27 | 2°56 | 24° 2 | 19°30 | 20°58 | 24°31 | n.a. | F 24 |
| S 25 | 15 58 58 | 0♊ 0'18 | 8♏15 | 10°34 | 8°21 | 8°16 | 21° 6 | 16°26 | 3°31 | 2°58 | 24° 3 | 19°22 | 20°55 | 24°38 | n.a. | S 25 |
| S 26 | 16 2 55 | 0°57'24 | 23°11 | 12°12 | 9°34 | 8°59 | 21°20 | 16°22 | 3°34 | 3° 0 | 24° 5 | 19°15 | 20°52 | 24°44 | n.a. | S 26 |
| M27 | 16 6 51 | 1°54'30 | 8♐18 | 13°53 | 10°48 | 9°42 | 21°34 | 16°17 | 3°37 | 3° 2 | 24° 6 | 19° 9 | 20°48 | 24°51 | n.a. | M27 |
| T 28 | 16 10 48 | 2°51'36 | 23°27 | 15°36 | 12° 2 | 10°25 | 21°47 | 16°13 | 3°40 | 3° 5 | 24° 8 | 19° 5 | 20°45 | 24°58 | n.a. | T 28 |
| W29 | 16 14 44 | 3°48'42 | 8♑27 | 17°23 | 13°15 | 11° 8 | 22° 1 | 16° 9 | 3°43 | 3° 7 | 24° 9 | 19° 3 | 20°42 | 25° 4 | n.a. | W29 |
| T 30 | 16 18 41 | 4°45'48 | 23°13 | 19°13 | 14°29 | 11°51 | 22°15 | 16° 5 | 3°46 | 3° 9 | 24°10 | 19°D 2 | 20°39 | 25°11 | n.a. | T 30 |
| F 31 | 16 22 38 | 5♊42'54 | 7♒37 | 21♉ 5 | 15♊43 | 12♈34 | 22♉28 | 16♏ 1 | 3♉49 | 3♊11 | 24♉12 | 19♑ 3 | 20♑36 | 25♊18 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 14n 2 | 25s36 | 1s54 | 4n30 | 3s11 | 14n14 | 0s24 | 4s57 | 1s20 | 16n 5 | 0s38 | 15s23 | 2n 8 | 12n 0 | 0s23 | 19n28 | 1s22 | 10n50 | 8s16 | 22s 1 | 21s51 | 26n 3 | | n.a. |
| T 2 | 14 21 | 23 40 | 0 40 | 4 27 | 3 18 | 14 40 | 0 22 | 4 39 | 1 20 | 16 9 | 0 38 | 15 22 | 2 8 | 12 1 | 0 23 | 19 29 | 1 22 | 10 51 | 8 16 | 22 1 | 21 52 | 26 3 | | n.a. |
| F 3 | 14 40 | 20 17 | 0n35 | 4 27 | 3 24 | 15 5 | 0 20 | 4 21 | 1 20 | 16 13 | 0 38 | 15 21 | 2 8 | 12 2 | 0 23 | 19 29 | 1 22 | 10 51 | 8 16 | 22 1 | 21 52 | 26 2 | | n.a. |
| S 4 | 14 58 | 15 48 | 1 46 | 4 30 | 3 28 | 15 30 | 0 17 | 4 4 | 1 20 | 16 17 | 0 38 | 15 20 | 2 8 | 12 3 | 0 23 | 19 29 | 1 22 | 10 52 | 8 16 | 22 1 | 21 53 | 26 2 | | n.a. |
| S 5 | 15 16 | 10 36 | 2 50 | 4 34 | 3 32 | 15 55 | 0 15 | 3 46 | 1 20 | 16 21 | 0 37 | 15 19 | 2 8 | 12 4 | 0 23 | 19 30 | 1 22 | 10 52 | 8 16 | 22 2 | 21 53 | 26 1 | | n.a. |
| M 6 | 15 34 | 5 1 | 3 44 | 4 42 | 3 34 | 16 19 | 0 13 | 3 28 | 1 20 | 16 25 | 0 37 | 15 17 | 2 7 | 12 6 | 0 23 | 19 30 | 1 22 | 10 53 | 8 16 | 22 2 | 21 54 | 26 1 | | n.a. |
| T 7 | 15 52 | 0n40 | 4 24 | 4 52 | 3 36 | 16 43 | 0 10 | 3 10 | 1 20 | 16 30 | 0 37 | 15 16 | 2 7 | 12 7 | 0 23 | 19 31 | 1 22 | 10 53 | 8 16 | 22 3 | 21 54 | 26 1 | | n.a. |
| W 8 | 16 9 | 6 13 | 4 51 | 5 4 | 3 37 | 17 6 | 0 8 | 2 52 | 1 19 | 16 34 | 0 37 | 15 15 | 2 7 | 12 8 | 0 23 | 19 31 | 1 22 | 10 53 | 8 16 | 22 4 | 21 55 | 26 0 | | n.a. |
| T 9 | 16 27 | 11 26 | 5 2 | 5 19 | 3 37 | 17 29 | 0 6 | 2 34 | 1 19 | 16 38 | 0 37 | 15 14 | 2 7 | 12 9 | 0 23 | 19 32 | 1 22 | 10 54 | 8 16 | 22 6 | 21 55 | 26 0 | | n.a. |
| F 10 | 16 43 | 16 6 | 4 59 | 5 36 | 3 36 | 17 52 | 0 3 | 2 16 | 1 19 | 16 42 | 0 37 | 15 13 | 2 7 | 12 10 | 0 23 | 19 32 | 1 22 | 10 54 | 8 16 | 22 7 | 21 56 | 26 0 | | n.a. |
| S 11 | 17 0 | 20 2 | 4 42 | 5 55 | 3 34 | 18 14 | 0 1 | 1 58 | 1 19 | 16 46 | 0 37 | 15 12 | 2 7 | 12 12 | 0 23 | 19 33 | 1 22 | 10 55 | 8 15 | 22 9 | 21 56 | 25 59 | | n.a. |
| S 12 | 17 17 | 23 3 | 4 12 | 6 16 | 3 31 | 18 36 | 0n 1 | 1 41 | 1 19 | 16 50 | 0 37 | 15 10 | 2 7 | 12 13 | 0 23 | 19 33 | 1 22 | 10 55 | 8 15 | 22 11 | 21 57 | 25 59 | | n.a. |
| M13 | 17 33 | 25 1 | 3 31 | 6 40 | 3 27 | 18 57 | 0 4 | 1 23 | 1 19 | 16 54 | 0 37 | 15 9 | 2 7 | 12 14 | 0 23 | 19 33 | 1 22 | 10 55 | 8 15 | 22 12 | 21 57 | 25 58 | | n.a. |
| T 14 | 17 48 | 25 50 | 2 42 | 7 5 | 3 23 | 19 17 | 0 6 | 1 5 | 1 19 | 16 58 | 0 37 | 15 8 | 2 7 | 12 15 | 0 23 | 19 34 | 1 22 | 10 56 | 8 15 | 22 13 | 21 58 | 25 58 | | n.a. |
| W15 | 18 4 | 25 28 | 1 45 | 7 31 | 3 18 | 19 38 | 0 9 | 0 47 | 1 18 | 17 1 | 0 37 | 15 7 | 2 7 | 12 16 | 0 23 | 19 34 | 1 22 | 10 56 | 8 15 | 22 14 | 21 59 | 25 57 | | n.a. |
| T 16 | 18 19 | 23 56 | 0 44 | 8 0 | 3 13 | 19 57 | 0 11 | 0 29 | 1 18 | 17 5 | 0 36 | 15 6 | 2 7 | 12 18 | 0 23 | 19 35 | 1 22 | 10 57 | 8 15 | 22 14 | 21 59 | 25 57 | | n.a. |
| F 17 | 18 34 | 21 21 | 0s19 | 8 30 | 3 6 | 20 16 | 0 13 | 0 12 | 1 18 | 17 9 | 0 36 | 15 4 | 2 7 | 12 19 | 0 23 | 19 35 | 1 22 | 10 57 | 8 15 | 22 14 | 22 0 | 25 56 | | n.a. |
| S 18 | 18 49 | 17 50 | 1 22 | 9 2 | 2 59 | 20 35 | 0 16 | 0n 6 | 1 18 | 17 13 | 0 36 | 15 3 | 2 7 | 12 20 | 0 23 | 19 36 | 1 22 | 10 57 | 8 15 | 22 14 | 22 0 | 25 56 | | n.a. |
| S 19 | 19 3 | 13 32 | 2 23 | 9 35 | 2 52 | 20 53 | 0 18 | 0 24 | 1 18 | 17 17 | 0 36 | 15 2 | 2 7 | 12 21 | 0 23 | 19 36 | 1 22 | 10 58 | 8 15 | 22 14 | 22 1 | 25 56 | | n.a. |
| M20 | 19 17 | 8 35 | 3 18 | 10 10 | 2 44 | 21 10 | 0 20 | 0 41 | 1 17 | 17 21 | 0 36 | 15 1 | 2 7 | 12 22 | 0 23 | 19 37 | 1 22 | 10 58 | 8 15 | 22 14 | 22 1 | 25 55 | | n.a. |
| T 21 | 19 31 | 3 8 | 4 5 | 10 45 | 2 35 | 21 27 | 0 23 | 0 59 | 1 17 | 17 25 | 0 36 | 15 0 | 2 7 | 12 23 | 0 23 | 19 37 | 1 22 | 10 58 | 8 15 | 22 14 | 22 2 | 25 55 | | n.a. |
| W22 | 19 44 | 2s36 | 4 41 | 11 22 | 2 26 | 21 43 | 0 25 | 1 17 | 1 17 | 17 28 | 0 36 | 14 59 | 2 6 | 12 24 | 0 23 | 19 37 | 1 22 | 10 59 | 8 15 | 22 14 | 22 2 | 25 54 | | n.a. |
| T 23 | 19 57 | 8 25 | 5 3 | 12 0 | 2 17 | 21 59 | 0 27 | 1 34 | 1 17 | 17 32 | 0 36 | 14 58 | 2 6 | 12 26 | 0 23 | 19 38 | 1 22 | 10 59 | 8 15 | 22 15 | 22 2 | 25 54 | | n.a. |
| F 24 | 20 10 | 14 1 | 5 7 | 12 39 | 2 7 | 22 14 | 0 30 | 1 52 | 1 17 | 17 36 | 0 36 | 14 56 | 2 6 | 12 27 | 0 23 | 19 38 | 1 22 | 11 0 | 8 15 | 22 16 | 22 3 | 25 53 | | n.a. |
| S 25 | 20 23 | 18 59 | 4 51 | 13 19 | 1 56 | 22 28 | 0 32 | 2 9 | 1 16 | 17 40 | 0 36 | 14 55 | 2 6 | 12 28 | 0 23 | 19 39 | 1 22 | 11 0 | 8 15 | 22 17 | 22 3 | 25 53 | | n.a. |
| S 26 | 20 35 | 22 53 | 4 16 | 14 0 | 1 46 | 22 42 | 0 34 | 2 26 | 1 16 | 17 43 | 0 36 | 14 54 | 2 6 | 12 29 | 0 23 | 19 39 | 1 22 | 11 0 | 8 15 | 22 18 | 22 4 | 25 52 | | n.a. |
| M27 | 20 46 | 25 15 | 3 22 | 14 41 | 1 35 | 22 55 | 0 36 | 2 44 | 1 16 | 17 47 | 0 36 | 14 53 | 2 6 | 12 30 | 0 23 | 19 40 | 1 22 | 11 1 | 8 15 | 22 19 | 22 4 | 25 52 | | n.a. |
| T 28 | 20 58 | 25 46 | 2 14 | 15 22 | 1 23 | 23 7 | 0 39 | 3 1 | 1 15 | 17 51 | 0 35 | 14 52 | 2 6 | 12 31 | 0 23 | 19 40 | 1 22 | 11 1 | 8 15 | 22 20 | 22 5 | 25 51 | | n.a. |
| W29 | 21 9 | 24 23 | 0 57 | 16 3 | 1 12 | 23 19 | 0 41 | 3 18 | 1 15 | 17 54 | 0 35 | 14 51 | 2 6 | 12 32 | 0 23 | 19 41 | 1 22 | 11 1 | 8 15 | 22 20 | 22 5 | 25 50 | | n.a. |
| T 30 | 21 19 | 21 19 | 0n23 | 16 45 | 1 0 | 23 30 | 0 43 | 3 35 | 1 15 | 17 58 | 0 35 | 14 50 | 2 6 | 12 33 | 0 23 | 19 41 | 1 22 | 11 2 | 8 15 | 22 20 | 22 6 | 25 50 | | n.a. |
| F 31 | 21n30 | 16s58 | 1n39 | 17n27 | 0s49 | 23n41 | 0n45 | 3n53 | 1s15 | 18n 2 | 0s35 | 14s49 | 2n 5 | 12n34 | 0s23 | 19n41 | 1s22 | 11n 2 | 8s15 | 22s20 | 22s 6 | 25n49 | | n.a. |

Julian Day Number = 1693784.5, Delta T = 03h09m07s
Ecliptic obliquity = 23°42'19, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°06'33, Lahiri = - 4°59'32 Julian Calendar 1 May 76 BCE == Greg. Calendar 29 Apr. 076 BCE

The year -75 astronomical counting style corresponds to year 076 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 76 BCE
# geocentric

## JUNE 76 BCE (-75) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 26 34 | 6♊40'00 | 21♒39 | 23♉ 0 | 16♊56 | 13♈17 | 22♉42 | 15°R57 | 3♉53 | 3♊13 | 24♉13 | 19♑ 5 | 20♑33 | 25♊24 | n.a. | S 1 |
| S 2 | 16 30 31 | 7°37'06 | 5♓17 | 24°57 | 18°10 | 13°59 | 22°55 | 15♏53 | 3°56 | 3°16 | 24°15 | 19°R 5 | 20°29 | 25°31 | n.a. | S 2 |
| M 3 | 16 34 27 | 8°34'13 | 18°34 | 26°57 | 19°23 | 14°42 | 23° 9 | 15°49 | 3°59 | 3°18 | 24°16 | 19° 5 | 20°26 | 25°38 | n.a. | M 3 |
| T 4 | 16 38 24 | 9°31'20 | 1♈31 | 28°59 | 20°37 | 15°24 | 23°23 | 15°45 | 4° 2 | 3°20 | 24°17 | 19° 3 | 20°23 | 25°44 | n.a. | T 4 |
| W 5 | 16 42 20 | 10°28'27 | 14°12 | 1♊ 3 | 21°51 | 16° 7 | 23°36 | 15°41 | 4° 5 | 3°22 | 24°19 | 18°59 | 20°20 | 25°51 | n.a. | W 5 |
| T 6 | 16 46 17 | 11°25'35 | 26°39 | 3° 8 | 23° 4 | 16°49 | 23°50 | 15°38 | 4° 8 | 3°25 | 24°20 | 18°54 | 20°17 | 25°58 | n.a. | T 6 |
| F 7 | 16 50 13 | 12°22'43 | 8♉54 | 5°15 | 24°18 | 17°31 | 24° 3 | 15°34 | 4°10 | 3°27 | 24°21 | 18°48 | 20°13 | 26° 4 | n.a. | F 7 |
| S 8 | 16 54 10 | 13°19'52 | 20°59 | 7°23 | 25°32 | 18°14 | 24°16 | 15°30 | 4°13 | 3°29 | 24°23 | 18°41 | 20°10 | 26°11 | n.a. | S 8 |
| S 9 | 16 58 7 | 14°17'00 | 2♊57 | 9°32 | 26°45 | 18°56 | 24°30 | 15°27 | 4°16 | 3°31 | 24°24 | 18°35 | 20° 7 | 26°18 | n.a. | S 9 |
| M10 | 17 2 3 | 15°14'09 | 14°50 | 11°41 | 27°59 | 19°38 | 24°43 | 15°23 | 4°19 | 3°33 | 24°25 | 18°30 | 20° 4 | 26°24 | n.a. | M10 |
| T 11 | 17 6 0 | 16°11'19 | 26°39 | 13°51 | 29°13 | 20°20 | 24°57 | 15°20 | 4°22 | 3°36 | 24°27 | 18°27 | 20° 1 | 26°31 | n.a. | T 11 |
| W12 | 17 9 56 | 17° 8'28 | 8♋26 | 16° 0 | 0♋26 | 21° 1 | 25°10 | 15°16 | 4°25 | 3°38 | 24°28 | 18°25 | 19°58 | 26°38 | n.a. | W12 |
| T 13 | 17 13 53 | 18° 5'38 | 20°14 | 18° 9 | 1°40 | 21°43 | 25°23 | 15°13 | 4°27 | 3°40 | 24°29 | 18°D24 | 19°54 | 26°44 | n.a. | T 13 |
| F 14 | 17 17 49 | 19° 2'48 | 2♌ 5 | 20°18 | 2°53 | 22°25 | 25°36 | 15°10 | 4°30 | 3°42 | 24°31 | 18°25 | 19°51 | 26°51 | n.a. | F 14 |
| S 15 | 17 21 46 | 19°59'58 | 14° 4 | 22°26 | 4° 7 | 23° 6 | 25°49 | 15° 6 | 4°33 | 3°44 | 24°32 | 18°27 | 19°48 | 26°58 | n.a. | S 15 |
| S 16 | 17 25 43 | 20°57'09 | 26°15 | 24°32 | 5°21 | 23°48 | 26° 3 | 15° 3 | 4°36 | 3°47 | 24°33 | 18°28 | 19°45 | 27° 4 | n.a. | S 16 |
| M17 | 17 29 39 | 21°54'19 | 8♍40 | 26°38 | 6°34 | 24°29 | 26°16 | 15° 0 | 4°38 | 3°49 | 24°35 | 18°30 | 19°42 | 27°11 | n.a. | M17 |
| T 18 | 17 33 36 | 22°51'30 | 21°25 | 28°42 | 7°48 | 25°10 | 26°29 | 14°57 | 4°41 | 3°51 | 24°36 | 18°R30 | 19°39 | 27°18 | n.a. | T 18 |
| W19 | 17 37 32 | 23°48'41 | 4♎34 | 0♋45 | 9° 2 | 25°52 | 26°42 | 14°54 | 4°43 | 3°53 | 24°37 | 18°30 | 19°35 | 27°24 | n.a. | W19 |
| T 20 | 17 41 29 | 24°45'53 | 18° 9 | 2°47 | 10°15 | 26°33 | 26°55 | 14°51 | 4°46 | 3°55 | 24°38 | 18°28 | 19°32 | 27°31 | n.a. | T 20 |
| F 21 | 17 45 25 | 25°43'04 | 2♏12 | 4°47 | 11°29 | 27°14 | 27° 8 | 14°49 | 4°48 | 3°57 | 24°40 | 18°26 | 19°29 | 27°37 | n.a. | F 21 |
| S 22 | 17 49 22 | 26°40'17 | 16°41 | 6°45 | 12°42 | 27°55 | 27°21 | 14°46 | 4°51 | 3°59 | 24°41 | 18°23 | 19°26 | 27°44 | n.a. | S 22 |
| S 23 | 17 53 18 | 27°37'29 | 1♐33 | 8°42 | 13°56 | 28°36 | 27°33 | 14°43 | 4°53 | 4° 1 | 24°42 | 18°21 | 19°23 | 27°51 | n.a. | S 23 |
| M24 | 17 57 15 | 28°34'43 | 16°40 | 10°37 | 15°10 | 29°16 | 27°46 | 14°41 | 4°56 | 4° 3 | 24°43 | 18°18 | 19°19 | 27°57 | n.a. | M24 |
| T 25 | 18 1 12 | 29°31'57 | 1♑53 | 12°30 | 16°23 | 29°57 | 27°59 | 14°38 | 4°58 | 4° 6 | 24°44 | 18°17 | 19°16 | 28° 4 | n.a. | T 25 |
| W26 | 18 5 8 | 0♋29'12 | 17° 3 | 14°22 | 17°37 | 0♉38 | 28°11 | 14°36 | 5° 0 | 4° 8 | 24°46 | 18°D17 | 19°13 | 28°11 | n.a. | W26 |
| T 27 | 18 9 5 | 1°26'27 | 2♒ 1 | 16°12 | 18°50 | 1°18 | 28°24 | 14°33 | 5° 3 | 4°10 | 24°47 | 18°17 | 19°10 | 28°17 | n.a. | T 27 |
| F 28 | 18 13 1 | 2°23'44 | 16°38 | 18° 0 | 20° 4 | 1°58 | 28°37 | 14°31 | 5° 5 | 4°12 | 24°48 | 18°18 | 19° 7 | 28°24 | n.a. | F 28 |
| S 29 | 18 16 58 | 3°21'01 | 0♓52 | 19°47 | 21°17 | 2°39 | 28°49 | 14°29 | 5° 7 | 4°14 | 24°49 | 18°19 | 19° 4 | 28°31 | n.a. | S 29 |
| S 30 | 18 20 54 | 4♋18'20 | 14♓39 | 21♋31 | 22♋31 | 3♉19 | 29♉ 2 | 14♏27 | 5♉ 9 | 4♊16 | 24♉50 | 18♑20 | 19♑ 0 | 28♊37 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21n40 | 11s48 | 2n48 | 18n 8 | 0s37 | 23n50 | 0n47 | 4n10 | 1s14 | 18n 5 | 0s35 | 14s48 | 2n 5 | 12n35 | 0s23 | 19n42 | 1s22 | 11n 2 | 8s15 | 22s20 | 22s 7 | 25n49 | | n.a. |
| S 2 | 21 49 | 6 12 | 3 45 | 18 48 | 0 26 | 23 59 | 0 49 | 4 27 | 1 14 | 18 9 | 0 35 | 14 47 | 2 5 | 12 36 | 0 23 | 19 42 | 1 22 | 11 3 | 8 15 | 22 20 | 22 7 | 25 48 | | n.a. |
| M 3 | 21 59 | 0 28 | 4 28 | 19 28 | 0 14 | 24 8 | 0 51 | 4 44 | 1 14 | 18 12 | 0 35 | 14 46 | 2 5 | 12 37 | 0 23 | 19 43 | 1 22 | 11 3 | 8 15 | 22 20 | 22 8 | 25 48 | | n.a. |
| T 4 | 22 7 | 5n 8 | 4 56 | 20 7 | 0 3 | 24 15 | 0 53 | 5 0 | 1 13 | 18 16 | 0 35 | 14 45 | 2 5 | 12 38 | 0 23 | 19 43 | 1 22 | 11 3 | 8 15 | 22 20 | 22 8 | 25 47 | | n.a. |
| W 5 | 22 16 | 10 24 | 5 9 | 20 44 | 0n 8 | 24 22 | 0 55 | 5 17 | 1 13 | 18 19 | 0 35 | 14 44 | 2 5 | 12 39 | 0 23 | 19 44 | 1 22 | 11 4 | 8 15 | 22 21 | 22 9 | 25 46 | | n.a. |
| T 6 | 22 24 | 15 9 | 5 8 | 21 20 | 0 19 | 24 28 | 0 57 | 5 34 | 1 13 | 18 23 | 0 35 | 14 43 | 2 4 | 12 40 | 0 23 | 19 44 | 1 22 | 11 4 | 8 15 | 22 21 | 22 9 | 25 46 | | n.a. |
| F 7 | 22 32 | 19 13 | 4 52 | 21 54 | 0 30 | 24 34 | 0 59 | 5 51 | 1 12 | 18 26 | 0 35 | 14 42 | 2 4 | 12 41 | 0 23 | 19 44 | 1 22 | 11 4 | 8 15 | 22 22 | 22 10 | 25 45 | | n.a. |
| S 8 | 22 39 | 22 25 | 4 23 | 22 26 | 0 40 | 24 39 | 1 1 | 6 7 | 1 12 | 18 29 | 0 35 | 14 41 | 2 4 | 12 42 | 0 23 | 19 45 | 1 22 | 11 5 | 8 15 | 22 23 | 22 10 | 25 45 | | n.a. |
| S 9 | 22 46 | 24 37 | 3 43 | 22 56 | 0 49 | 24 43 | 1 3 | 6 24 | 1 11 | 18 33 | 0 35 | 14 40 | 2 4 | 12 43 | 0 23 | 19 45 | 1 22 | 11 5 | 8 15 | 22 24 | 22 11 | 25 44 | | n.a. |
| M10 | 22 53 | 25 42 | 2 53 | 23 24 | 0 58 | 24 46 | 1 5 | 6 40 | 1 11 | 18 36 | 0 35 | 14 39 | 2 4 | 12 44 | 0 23 | 19 46 | 1 22 | 11 5 | 8 15 | 22 25 | 22 11 | 25 43 | | n.a. |
| T 11 | 22 59 | 25 36 | 1 56 | 23 49 | 1 6 | 24 48 | 1 6 | 6 56 | 1 11 | 18 39 | 0 34 | 14 39 | 2 4 | 12 45 | 0 23 | 19 46 | 1 22 | 11 5 | 8 15 | 22 25 | 22 12 | 25 43 | | n.a. |
| W12 | 23 5 | 24 20 | 0 54 | 24 11 | 1 14 | 24 50 | 1 8 | 7 13 | 1 10 | 18 43 | 0 34 | 14 38 | 2 4 | 12 46 | 0 23 | 19 47 | 1 22 | 11 6 | 8 15 | 22 25 | 22 12 | 25 42 | | n.a. |
| T 13 | 23 10 | 22 0 | 0s10 | 24 31 | 1 21 | 24 51 | 1 10 | 7 29 | 1 10 | 18 46 | 0 34 | 14 37 | 2 3 | 12 47 | 0 23 | 19 47 | 1 22 | 11 6 | 8 15 | 22 25 | 22 13 | 25 42 | | n.a. |
| F 14 | 23 15 | 18 42 | 1 14 | 24 48 | 1 27 | 24 52 | 1 11 | 7 45 | 1 9 | 18 49 | 0 34 | 14 36 | 2 3 | 12 48 | 0 23 | 19 47 | 1 22 | 11 6 | 8 15 | 22 25 | 22 13 | 25 41 | | n.a. |
| S 15 | 23 19 | 14 37 | 2 16 | 25 2 | 1 33 | 24 51 | 1 13 | 8 1 | 1 9 | 18 52 | 0 34 | 14 35 | 2 3 | 12 49 | 0 23 | 19 48 | 1 22 | 11 7 | 8 15 | 22 25 | 22 14 | 25 40 | | n.a. |
| S 16 | 23 24 | 9 53 | 3 13 | 25 13 | 1 37 | 24 50 | 1 14 | 8 16 | 1 9 | 18 56 | 0 34 | 14 35 | 2 3 | 12 50 | 0 23 | 19 48 | 1 22 | 11 7 | 8 15 | 22 25 | 22 14 | 25 40 | | n.a. |
| M17 | 23 27 | 4 40 | 4 2 | 25 21 | 1 42 | 24 48 | 1 16 | 8 32 | 1 8 | 18 59 | 0 34 | 14 34 | 2 3 | 12 51 | 0 23 | 19 49 | 1 22 | 11 7 | 8 15 | 22 25 | 22 14 | 25 39 | | n.a. |
| T 18 | 23 31 | 0s51 | 4 41 | 25 27 | 1 45 | 24 45 | 1 17 | 8 48 | 1 8 | 19 2 | 0 34 | 14 33 | 2 2 | 12 52 | 0 23 | 19 49 | 1 22 | 11 7 | 8 15 | 22 25 | 22 15 | 25 38 | | n.a. |
| W19 | 23 33 | 6 30 | 5 6 | 25 30 | 1 48 | 24 42 | 1 18 | 9 3 | 1 7 | 19 5 | 0 34 | 14 32 | 2 2 | 12 52 | 0 23 | 19 49 | 1 22 | 11 8 | 8 15 | 22 25 | 22 15 | 25 38 | | n.a. |
| T 20 | 23 36 | 12 2 | 5 15 | 25 30 | 1 50 | 24 38 | 1 20 | 9 19 | 1 7 | 19 8 | 0 34 | 14 32 | 2 2 | 12 53 | 0 23 | 19 50 | 1 22 | 11 8 | 8 15 | 22 25 | 22 16 | 25 37 | | n.a. |
| F 21 | 23 38 | 17 9 | 5 6 | 25 28 | 1 51 | 24 33 | 1 21 | 9 34 | 1 6 | 19 11 | 0 34 | 14 31 | 2 2 | 12 54 | 0 23 | 19 50 | 1 22 | 11 8 | 8 15 | 22 25 | 22 16 | 25 36 | | n.a. |
| S 22 | 23 40 | 21 26 | 4 38 | 25 23 | 1 51 | 24 27 | 1 22 | 9 50 | 1 6 | 19 14 | 0 34 | 14 31 | 2 2 | 12 55 | 0 23 | 19 51 | 1 22 | 11 8 | 8 15 | 22 26 | 22 17 | 25 35 | | n.a. |
| S 23 | 23 41 | 24 27 | 3 50 | 25 16 | 1 51 | 24 21 | 1 23 | 10 5 | 1 5 | 19 17 | 0 34 | 14 30 | 2 1 | 12 56 | 0 23 | 19 51 | 1 22 | 11 9 | 8 15 | 22 26 | 22 17 | 25 35 | | n.a. |
| M24 | 23 42 | 25 47 | 2 46 | 25 7 | 1 51 | 24 14 | 1 24 | 10 20 | 1 5 | 19 20 | 0 34 | 14 29 | 2 1 | 12 57 | 0 23 | 19 51 | 1 22 | 11 9 | 8 15 | 22 26 | 22 18 | 25 34 | | n.a. |
| T 25 | 23 42 | 25 11 | 1 29 | 24 56 | 1 50 | 24 6 | 1 25 | 10 35 | 1 4 | 19 23 | 0 34 | 14 29 | 2 1 | 12 57 | 0 23 | 19 52 | 1 22 | 11 9 | 8 15 | 22 26 | 22 18 | 25 33 | | n.a. |
| W26 | 23 42 | 22 43 | 0 7 | 24 42 | 1 48 | 23 57 | 1 26 | 10 49 | 1 4 | 19 26 | 0 34 | 14 28 | 2 1 | 12 58 | 0 23 | 19 52 | 1 22 | 11 9 | 8 15 | 22 27 | 22 19 | 25 33 | | n.a. |
| T 27 | 23 42 | 18 43 | 1n15 | 24 27 | 1 45 | 23 48 | 1 27 | 11 4 | 1 3 | 19 29 | 0 34 | 14 28 | 2 1 | 12 59 | 0 23 | 19 52 | 1 22 | 11 9 | 8 15 | 22 26 | 22 19 | 25 32 | | n.a. |
| F 28 | 23 41 | 13 38 | 2 31 | 24 10 | 1 42 | 23 38 | 1 28 | 11 19 | 1 3 | 19 32 | 0 34 | 14 27 | 2 0 | 13 0 | 0 23 | 19 53 | 1 22 | 11 10 | 8 16 | 22 26 | 22 20 | 25 31 | | n.a. |
| S 29 | 23 40 | 7 57 | 3 35 | 23 52 | 1 39 | 23 27 | 1 29 | 11 33 | 1 2 | 19 34 | 0 33 | 14 27 | 2 0 | 13 0 | 0 23 | 19 53 | 1 22 | 11 10 | 8 16 | 22 26 | 22 20 | 25 30 | | n.a. |
| S 30 | 23n38 | 2s 3 | 4n24 | 23n32 | 1n35 | 23n16 | 1n29 | 11n48 | 1s 2 | 19n37 | 0s33 | 14s27 | 2n 0 | 13n 1 | 0s23 | 19n54 | 1s22 | 11n10 | 8s16 | 22s26 | 22s20 | 25n30 | | n.a. |

Julian Day Number = 1693815.5, Delta T = 03h09m06s
Ecliptic obliquity = 23°42'18, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°06'28, Lahiri = - 4°59'28 Julian Calendar 1 June 76 BCE == Greg. Calendar 30 May 076 BCE

The year -75 astronomical counting style corresponds to year 076 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 76 BCE
# geocentric

## JULY 76 BCE (-75) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 18 24 51 | 5♋15'40 | 28♓ 1 | 23♋15 | 23♋45 | 3♉59 | 29♉14 | 14°R25 | 5♉11 | 4♊18 | 24♉51 | 18♂20 | 18♂57 | 28♊44 | n.a. | M 1 |
| T 2 | 18 28 47 | 6°13'01 | 10♈59 | 24°56 | 24°58 | 4°39 | 29°26 | 14♏23 | 5°13 | 4°20 | 24°53 | 18°R21 | 18°54 | 28°51 | n.a. | T 2 |
| W 3 | 18 32 44 | 7°10'23 | 23°36 | 26°36 | 26°12 | 5°19 | 29°39 | 14°21 | 5°16 | 4°22 | 24°54 | 18°20 | 18°51 | 28°57 | n.a. | W 3 |
| T 4 | 18 36 41 | 8° 7'47 | 5♉57 | 28°14 | 27°25 | 5°59 | 29°51 | 14°19 | 5°18 | 4°24 | 24°55 | 18°19 | 18°48 | 29° 4 | n.a. | T 4 |
| F 5 | 18 40 37 | 9° 5'12 | 18° 4 | 29°50 | 28°39 | 6°39 | 0♊ 3 | 14°18 | 5°20 | 4°25 | 24°56 | 18°18 | 18°45 | 29°11 | n.a. | F 5 |
| S 6 | 18 44 34 | 10° 2'38 | 0♊ 2 | 1♌25 | 29°52 | 7°18 | 0°15 | 14°16 | 5°21 | 4°27 | 24°57 | 18°17 | 18°41 | 29°17 | n.a. | S 6 |
| S 7 | 18 48 30 | 11° 0'06 | 11°54 | 2°58 | 1♌ 6 | 7°58 | 0°27 | 14°15 | 5°23 | 4°29 | 24°58 | 18°16 | 18°38 | 29°24 | n.a. | S 7 |
| M 8 | 18 52 27 | 11°57'35 | 23°42 | 4°30 | 2°20 | 8°37 | 0°39 | 14°13 | 5°25 | 4°31 | 24°59 | 18°15 | 18°35 | 29°31 | n.a. | M 8 |
| T 9 | 18 56 23 | 12°55'05 | 5♋29 | 5°59 | 3°33 | 9°16 | 0°51 | 14°12 | 5°27 | 4°33 | 25° 0 | 18°14 | 18°32 | 29°37 | n.a. | T 9 |
| W10 | 19 0 20 | 13°52'36 | 17°19 | 7°27 | 4°47 | 9°55 | 1° 3 | 14°11 | 5°29 | 4°35 | 25° 1 | 18°D14 | 18°29 | 29°44 | n.a. | W10 |
| T 11 | 19 4 17 | 14°50'09 | 29°12 | 8°54 | 6° 0 | 10°34 | 1°14 | 14°10 | 5°30 | 4°37 | 25° 2 | 18°14 | 18°25 | 29°51 | n.a. | T 11 |
| F 12 | 19 8 13 | 15°47'42 | 11♌11 | 10°18 | 7°14 | 11°13 | 1°26 | 14° 9 | 5°32 | 4°38 | 25° 3 | 18°15 | 18°22 | 29°57 | n.a. | F 12 |
| S 13 | 19 12 10 | 16°45'17 | 23°18 | 11°41 | 8°27 | 11°52 | 1°38 | 14° 8 | 5°34 | 4°40 | 25° 4 | 18°15 | 18°19 | 0♋ 4 | n.a. | S 13 |
| S 14 | 19 16 6 | 17°42'53 | 5♍37 | 13° 2 | 9°41 | 12°31 | 1°49 | 14° 7 | 5°35 | 4°42 | 25° 5 | 18°15 | 18°16 | 0°11 | n.a. | S 14 |
| M15 | 19 20 3 | 18°40'30 | 18° 9 | 14°21 | 10°54 | 13°10 | 2° 0 | 14° 6 | 5°37 | 4°44 | 25° 6 | 18°R15 | 18°13 | 0°17 | n.a. | M15 |
| T 16 | 19 23 59 | 19°38'08 | 0♎58 | 15°39 | 12° 8 | 13°48 | 2°12 | 14° 6 | 5°38 | 4°45 | 25° 7 | 18°15 | 18°10 | 0°24 | n.a. | T 16 |
| W17 | 19 27 56 | 20°35'47 | 14° 6 | 16°54 | 13°21 | 14°26 | 2°23 | 14° 5 | 5°40 | 4°47 | 25° 8 | 18°D15 | 18° 6 | 0°31 | n.a. | W17 |
| T 18 | 19 31 52 | 21°33'28 | 27°35 | 18° 7 | 14°35 | 15° 5 | 2°34 | 14° 5 | 5°41 | 4°49 | 25° 8 | 18°15 | 18° 3 | 0°37 | n.a. | T 18 |
| F 19 | 19 35 49 | 22°31'09 | 11♏28 | 19°18 | 15°48 | 15°43 | 2°45 | 14° 4 | 5°43 | 4°50 | 25° 9 | 18°15 | 18° 0 | 0°44 | n.a. | F 19 |
| S 20 | 19 39 46 | 23°28'52 | 25°43 | 20°28 | 17° 1 | 16°21 | 2°56 | 14° 4 | 5°44 | 4°52 | 25°10 | 18°15 | 17°57 | 0°50 | n.a. | S 20 |
| S 21 | 19 43 42 | 24°26'36 | 10♐19 | 21°34 | 18°15 | 16°58 | 3° 7 | 14° 4 | 5°45 | 4°54 | 25°11 | 18°16 | 17°54 | 0°57 | n.a. | S 21 |
| M22 | 19 47 39 | 25°24'21 | 25°12 | 22°39 | 19°28 | 17°36 | 3°18 | 14°D 4 | 5°46 | 4°55 | 25°12 | 18°16 | 17°51 | 1° 4 | n.a. | M22 |
| T 23 | 19 51 35 | 26°22'08 | 10♑14 | 23°41 | 20°42 | 18°14 | 3°29 | 14° 4 | 5°47 | 4°57 | 25°12 | 18°17 | 17°47 | 1°10 | n.a. | T 23 |
| W24 | 19 55 32 | 27°19'56 | 25°19 | 24°40 | 21°55 | 18°51 | 3°39 | 14° 4 | 5°49 | 4°58 | 25°13 | 18°R17 | 17°44 | 1°17 | n.a. | W24 |
| T 25 | 19 59 28 | 28°17'46 | 10♒16 | 25°37 | 23° 8 | 19°29 | 3°50 | 14° 4 | 5°50 | 5° 0 | 25°14 | 18°16 | 17°41 | 1°24 | n.a. | T 25 |
| F 26 | 20 3 25 | 29°15'37 | 24°58 | 26°31 | 24°22 | 20° 6 | 4° 0 | 14° 5 | 5°51 | 5° 1 | 25°15 | 18°15 | 17°38 | 1°30 | n.a. | F 26 |
| S 27 | 20 7 21 | 0♌13'30 | 9♓19 | 27°22 | 25°35 | 20°43 | 4°11 | 14° 5 | 5°52 | 5° 3 | 25°15 | 18°14 | 17°35 | 1°37 | n.a. | S 27 |
| S 28 | 20 11 18 | 1°11'25 | 23°14 | 28° 9 | 26°48 | 21°20 | 4°21 | 14° 6 | 5°53 | 5° 4 | 25°16 | 18°12 | 17°31 | 1°44 | n.a. | S 28 |
| M29 | 20 15 15 | 2° 9'21 | 6♈43 | 28°54 | 28° 2 | 21°57 | 4°31 | 14° 6 | 5°53 | 5° 6 | 25°17 | 18°11 | 17°28 | 1°50 | n.a. | M29 |
| T 30 | 20 19 11 | 3° 7'20 | 19°46 | 29°34 | 29°15 | 22°34 | 4°41 | 14° 7 | 5°54 | 5° 7 | 25°17 | 18°10 | 17°25 | 1°57 | n.a. | T 30 |
| W31 | 20 23 8 | 4♌ 5'21 | 2♉25 | 0♍11 | 0♍28 | 23♉10 | 4♊51 | 14♏ 8 | 5♉55 | 5♊ 8 | 25♉18 | 18°D 9 | 17♂22 | 2♋ 4 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| M 1 | 23n36 | 3n44 | 4n57 | 23n10 | 1n31 | 23n 4 | 1n30 | 12n 2 | 1s 1 | 19n40 | 0s33 | 14s26 | 2n 0 | 13n 2 | 0s23 | 19n54 | 1s22 | 11n10 | 8s16 | 22s26 | 22s21 | 25n29 | | | n.a. |
| T 2 | 23 33 | 9 12 | 5 14 | 22 47 | 1 26 | 22 51 | 1 30 | 12 16 | 1 0 | 19 43 | 0 33 | 14 26 | 1 59 | 13 3 | 0 23 | 19 54 | 1 22 | 11 10 | 8 16 | 22 26 | 22 21 | 25 28 | | | n.a. |
| W 3 | 23 30 | 14 8 | 5 16 | 22 23 | 1 21 | 22 38 | 1 31 | 12 30 | 1 0 | 19 45 | 0 33 | 14 26 | 1 59 | 13 3 | 0 23 | 19 55 | 1 22 | 11 11 | 8 16 | 22 26 | 22 22 | 25 27 | | | n.a. |
| T 4 | 23 27 | 18 23 | 5 2 | 21 58 | 1 15 | 22 24 | 1 31 | 12 44 | 0 59 | 19 48 | 0 33 | 14 25 | 1 59 | 13 4 | 0 23 | 19 55 | 1 22 | 11 11 | 8 16 | 22 26 | 22 22 | 25 27 | | | n.a. |
| F 5 | 23 23 | 21 48 | 4 35 | 21 32 | 1 9 | 22 9 | 1 32 | 12 58 | 0 59 | 19 51 | 0 33 | 14 25 | 1 59 | 13 5 | 0 23 | 19 55 | 1 22 | 11 11 | 8 16 | 22 26 | 22 23 | 25 26 | | | n.a. |
| S 6 | 23 19 | 24 14 | 3 57 | 21 5 | 1 2 | 21 54 | 1 32 | 13 11 | 0 58 | 19 53 | 0 33 | 14 25 | 1 59 | 13 5 | 0 23 | 19 56 | 1 22 | 11 11 | 8 16 | 22 26 | 22 23 | 25 25 | | | n.a. |
| S 7 | 23 15 | 25 35 | 3 8 | 20 37 | 0 56 | 21 38 | 1 32 | 13 25 | 0 57 | 19 56 | 0 33 | 14 24 | 1 58 | 13 6 | 0 23 | 19 56 | 1 22 | 11 11 | 8 16 | 22 27 | 22 24 | 25 24 | | | n.a. |
| M 8 | 23 10 | 25 45 | 2 12 | 20 8 | 0 48 | 21 21 | 1 32 | 13 38 | 0 57 | 19 58 | 0 33 | 14 24 | 1 58 | 13 6 | 0 23 | 19 56 | 1 22 | 11 12 | 8 16 | 22 27 | 22 24 | 25 23 | | | n.a. |
| T 9 | 23 4 | 24 46 | 1 10 | 19 39 | 0 41 | 21 4 | 1 32 | 13 51 | 0 56 | 20 1 | 0 33 | 14 24 | 1 58 | 13 7 | 0 23 | 19 57 | 1 22 | 11 12 | 8 16 | 22 27 | 22 24 | 25 23 | | | n.a. |
| W10 | 22 58 | 22 39 | 0 5 | 19 9 | 0 33 | 20 46 | 1 32 | 14 4 | 0 56 | 20 3 | 0 33 | 14 24 | 1 58 | 13 8 | 0 23 | 19 57 | 1 22 | 11 12 | 8 16 | 22 27 | 22 25 | 25 22 | | | n.a. |
| T 11 | 22 52 | 19 34 | 1s 1 | 18 38 | 0 25 | 20 28 | 1 32 | 14 17 | 0 55 | 20 6 | 0 33 | 14 24 | 1 57 | 13 8 | 0 23 | 19 57 | 1 22 | 11 12 | 8 17 | 22 27 | 22 25 | 25 21 | | | n.a. |
| F 12 | 22 45 | 15 38 | 2 4 | 18 7 | 0 17 | 20 9 | 1 32 | 14 30 | 0 54 | 20 8 | 0 33 | 14 24 | 1 57 | 13 9 | 0 23 | 19 58 | 1 22 | 11 12 | 8 17 | 22 27 | 22 26 | 25 20 | | | n.a. |
| S 13 | 22 38 | 11 1 | 3 3 | 17 36 | 0 8 | 19 50 | 1 32 | 14 43 | 0 54 | 20 11 | 0 33 | 14 24 | 1 57 | 13 9 | 0 23 | 19 58 | 1 22 | 11 12 | 8 17 | 22 27 | 22 26 | 25 19 | | | n.a. |
| S 14 | 22 31 | 5 56 | 3 54 | 17 5 | 0s 1 | 19 29 | 1 31 | 14 56 | 0 53 | 20 13 | 0 33 | 14 24 | 1 57 | 13 10 | 0 23 | 19 58 | 1 22 | 11 12 | 8 17 | 22 27 | 22 27 | 25 18 | | | n.a. |
| M15 | 22 23 | 0 31 | 4 35 | 16 33 | 0 10 | 19 9 | 1 31 | 15 8 | 0 52 | 20 15 | 0 33 | 14 24 | 1 56 | 13 10 | 0 23 | 19 58 | 1 22 | 11 12 | 8 17 | 22 27 | 22 27 | 25 18 | | | n.a. |
| T 16 | 22 15 | 5s 1 | 5 3 | 16 1 | 0 19 | 18 48 | 1 31 | 15 20 | 0 52 | 20 18 | 0 33 | 14 24 | 1 56 | 13 11 | 0 23 | 19 59 | 1 22 | 11 13 | 8 17 | 22 27 | 22 27 | 25 17 | | | n.a. |
| W17 | 22 6 | 10 28 | 5 17 | 15 30 | 0 28 | 18 26 | 1 30 | 15 32 | 0 51 | 20 20 | 0 33 | 14 24 | 1 56 | 13 11 | 0 23 | 19 59 | 1 22 | 11 13 | 8 17 | 22 27 | 22 28 | 25 16 | | | n.a. |
| T 18 | 21 57 | 15 36 | 5 14 | 14 58 | 0 38 | 18 4 | 1 30 | 15 44 | 0 50 | 20 22 | 0 33 | 14 24 | 1 56 | 13 12 | 0 23 | 19 59 | 1 22 | 11 13 | 8 17 | 22 27 | 22 28 | 25 15 | | | n.a. |
| F 19 | 21 48 | 20 3 | 4 52 | 14 26 | 0 48 | 17 41 | 1 29 | 15 56 | 0 49 | 20 25 | 0 33 | 14 24 | 1 56 | 13 12 | 0 23 | 20 0 | 1 22 | 11 13 | 8 17 | 22 27 | 22 29 | 25 14 | | | n.a. |
| S 20 | 21 38 | 23 29 | 4 12 | 13 55 | 0 58 | 17 18 | 1 28 | 16 8 | 0 49 | 20 27 | 0 33 | 14 24 | 1 55 | 13 13 | 0 23 | 20 0 | 1 22 | 11 13 | 8 18 | 22 27 | 22 29 | 25 13 | | | n.a. |
| S 21 | 21 28 | 25 28 | 3 16 | 13 24 | 1 8 | 16 55 | 1 27 | 16 20 | 0 48 | 20 29 | 0 33 | 14 24 | 1 55 | 13 13 | 0 24 | 20 0 | 1 22 | 11 13 | 8 18 | 22 27 | 22 30 | 25 12 | | | n.a. |
| M22 | 21 18 | 25 42 | 2 5 | 12 53 | 1 18 | 16 31 | 1 26 | 16 31 | 0 47 | 20 31 | 0 33 | 14 25 | 1 55 | 13 13 | 0 24 | 20 0 | 1 22 | 11 13 | 8 18 | 22 27 | 22 30 | 25 11 | | | n.a. |
| T 23 | 21 7 | 24 3 | 0 45 | 12 23 | 1 28 | 16 6 | 1 26 | 16 42 | 0 46 | 20 33 | 0 33 | 14 25 | 1 55 | 13 14 | 0 24 | 20 1 | 1 22 | 11 13 | 8 18 | 22 26 | 22 30 | 25 10 | | | n.a. |
| W24 | 20 55 | 20 40 | 0n39 | 11 54 | 1 39 | 15 41 | 1 25 | 16 54 | 0 46 | 20 35 | 0 32 | 14 25 | 1 54 | 13 14 | 0 24 | 20 1 | 1 22 | 11 13 | 8 18 | 22 26 | 22 31 | 25 10 | | | n.a. |
| T 25 | 20 44 | 15 57 | 1 59 | 11 25 | 1 49 | 15 16 | 1 23 | 17 5 | 0 45 | 20 37 | 0 32 | 14 25 | 1 54 | 13 14 | 0 24 | 20 1 | 1 22 | 11 13 | 8 18 | 22 27 | 22 31 | 25 9 | | | n.a. |
| F 26 | 20 32 | 10 22 | 3 10 | 10 57 | 2 0 | 14 50 | 1 22 | 17 15 | 0 44 | 20 39 | 0 32 | 14 26 | 1 54 | 13 15 | 0 24 | 20 1 | 1 22 | 11 13 | 8 18 | 22 27 | 22 32 | 25 8 | | | n.a. |
| S 27 | 20 20 | 4 21 | 4 7 | 10 29 | 2 10 | 14 24 | 1 21 | 17 26 | 0 43 | 20 41 | 0 32 | 14 26 | 1 54 | 13 15 | 0 24 | 20 2 | 1 22 | 11 13 | 8 18 | 22 27 | 22 32 | 25 7 | | | n.a. |
| S 28 | 20 7 | 1n41 | 4 47 | 10 3 | 2 20 | 13 58 | 1 20 | 17 37 | 0 42 | 20 43 | 0 32 | 14 27 | 1 53 | 13 15 | 0 24 | 20 2 | 1 22 | 11 13 | 8 18 | 22 27 | 22 33 | 25 6 | | | n.a. |
| M29 | 19 54 | 7 26 | 5 10 | 9 38 | 2 31 | 13 31 | 1 18 | 17 47 | 0 42 | 20 45 | 0 32 | 14 27 | 1 53 | 13 16 | 0 24 | 20 2 | 1 22 | 11 13 | 8 19 | 22 27 | 22 33 | 25 5 | | | n.a. |
| T 30 | 19 41 | 12 41 | 5 17 | 9 14 | 2 41 | 13 4 | 1 17 | 17 57 | 0 41 | 20 47 | 0 32 | 14 27 | 1 53 | 13 16 | 0 24 | 20 2 | 1 22 | 11 13 | 8 19 | 22 27 | 22 33 | 25 4 | | | n.a. |
| W31 | 19n27 | 17n14 | 5n 7 | 8n52 | 2s51 | 12n36 | 1n15 | 18n 8 | 0s40 | 20n49 | 0s32 | 14s28 | 1n53 | 13n16 | 0s24 | 20n 2 | 1s23 | 11n13 | 8s19 | 22s27 | 22s34 | 25n 3 | | | n.a. |

Julian Day Number = 1693845.5, Delta T = 03h09m05s
Ecliptic obliquity = 23°42'18, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°06'24, Lahiri = - 4°59'24 Julian Calendar 1 July 76 BCE == Greg. Calendar 29 June 076 BCE


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# ASTRODIENST EPHEMERIS for the year 76 BCE
# geocentric

## AUGUST 76 BCE (-75) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 27 4 | 5♌ 3'23 | 14♉45 | 0♍44 | 1♍42 | 23♉47 | 5♊ 1 | 14♏ 9 | 5♉56 | 5♊10 | 25♉19 | 18♑10 | 17♑19 | 2♋10 | n.a. | T 1 |
| F 2 | 20 31 1 | 6° 1'28 | 26°50 | 1°12 | 2°55 | 24°23 | 5°11 | 14°10 | 5°56 | 5°11 | 25°19 | 18°11 | 17°16 | 2°17 | n.a. | F 2 |
| S 3 | 20 34 57 | 6°59'35 | 8♊45 | 1°36 | 4° 8 | 24°59 | 5°20 | 14°11 | 5°57 | 5°12 | 25°20 | 18°12 | 17°12 | 2°24 | n.a. | S 3 |
| S 4 | 20 38 54 | 7°57'44 | 20°34 | 1°55 | 5°21 | 25°35 | 5°30 | 14°12 | 5°58 | 5°13 | 25°20 | 18°14 | 17° 9 | 2°30 | n.a. | S 4 |
| M 5 | 20 42 50 | 8°55'55 | 2♋21 | 2° 8 | 6°35 | 26°11 | 5°39 | 14°13 | 5°58 | 5°15 | 25°21 | 18°15 | 17° 6 | 2°37 | n.a. | M 5 |
| T 6 | 20 46 47 | 9°54'08 | 14°10 | 2°16 | 7°48 | 26°47 | 5°48 | 14°15 | 5°59 | 5°16 | 25°21 | 18°R16 | 17° 3 | 2°44 | n.a. | T 6 |
| W 7 | 20 50 44 | 10°52'22 | 26° 4 | 2°R19 | 9° 1 | 27°22 | 5°58 | 14°16 | 5°59 | 5°17 | 25°22 | 18°16 | 17° 0 | 2°50 | n.a. | W 7 |
| T 8 | 20 54 40 | 11°50'39 | 8♌ 6 | 2°15 | 10°14 | 27°58 | 6° 7 | 14°18 | 5°59 | 5°18 | 25°22 | 18°14 | 16°57 | 2°57 | n.a. | T 8 |
| F 9 | 20 58 37 | 12°48'58 | 20°17 | 2° 5 | 11°27 | 28°33 | 6°16 | 14°19 | 6° 0 | 5°19 | 25°23 | 18°12 | 16°53 | 3° 3 | n.a. | F 9 |
| S 10 | 21 2 33 | 13°47'18 | 2♍39 | 1°49 | 12°40 | 29° 8 | 6°24 | 14°21 | 6° 0 | 5°20 | 25°23 | 18° 8 | 16°50 | 3°10 | n.a. | S 10 |
| S 11 | 21 6 30 | 14°45'40 | 15°14 | 1°26 | 13°54 | 29°43 | 6°33 | 14°23 | 6° 0 | 5°21 | 25°24 | 18° 4 | 16°47 | 3°17 | n.a. | S 11 |
| M12 | 21 10 26 | 15°44'04 | 28° 1 | 0°56 | 15° 7 | 0♊17 | 6°42 | 14°25 | 6° 0 | 5°22 | 25°24 | 18° 0 | 16°44 | 3°23 | n.a. | M12 |
| T 13 | 21 14 23 | 16°42'30 | 11♎ 2 | 0°20 | 16°20 | 0°52 | 6°50 | 14°27 | 6° 0 | 5°23 | 25°24 | 17°55 | 16°41 | 3°30 | n.a. | T 13 |
| W14 | 21 18 19 | 17°40'58 | 24°17 | 29♌38 | 17°33 | 1°26 | 6°58 | 14°29 | 6° 0 | 5°24 | 25°25 | 17°52 | 16°37 | 3°37 | n.a. | W14 |
| T 15 | 21 22 16 | 18°39'27 | 7♏48 | 28°50 | 18°46 | 2° 1 | 7° 6 | 14°31 | 6°R 0 | 5°25 | 25°25 | 17°51 | 16°34 | 3°43 | n.a. | T 15 |
| F 16 | 21 26 12 | 19°37'58 | 21°35 | 27°57 | 19°59 | 2°35 | 7°14 | 14°34 | 6° 0 | 5°26 | 25°25 | 17°D50 | 16°31 | 3°50 | n.a. | F 16 |
| S 17 | 21 30 9 | 20°36'30 | 5♐37 | 26°59 | 21°12 | 3° 9 | 7°22 | 14°36 | 6° 0 | 5°27 | 25°26 | 17°51 | 16°28 | 3°57 | n.a. | S 17 |
| S 18 | 21 34 6 | 21°35'05 | 19°55 | 25°59 | 22°25 | 3°42 | 7°30 | 14°39 | 6° 0 | 5°28 | 25°26 | 17°52 | 16°25 | 4° 3 | n.a. | S 18 |
| M19 | 21 38 2 | 22°33'41 | 4♑26 | 24°56 | 23°38 | 4°16 | 7°38 | 14°41 | 6° 0 | 5°28 | 25°26 | 17°53 | 16°22 | 4°10 | n.a. | M19 |
| T 20 | 21 41 59 | 23°32'19 | 19° 7 | 23°52 | 24°51 | 4°49 | 7°45 | 14°44 | 6° 0 | 5°29 | 25°26 | 17°R54 | 16°18 | 4°17 | n.a. | T 20 |
| W21 | 21 45 55 | 24°30'59 | 3♒52 | 22°49 | 26° 4 | 5°22 | 7°52 | 14°47 | 5°59 | 5°30 | 25°26 | 17°53 | 16°15 | 4°23 | n.a. | W21 |
| T 22 | 21 49 52 | 25°29'41 | 18°34 | 21°49 | 27°16 | 5°55 | 8° 0 | 14°50 | 5°59 | 5°31 | 25°27 | 17°50 | 16°12 | 4°30 | n.a. | T 22 |
| F 23 | 21 53 48 | 26°28'25 | 3♓ 7 | 20°52 | 28°29 | 6°28 | 8° 7 | 14°52 | 5°59 | 5°31 | 25°27 | 17°46 | 16° 9 | 4°37 | n.a. | F 23 |
| S 24 | 21 57 45 | 27°27'10 | 17°24 | 20° 1 | 29°42 | 7° 0 | 8°14 | 14°56 | 5°58 | 5°32 | 25°27 | 17°40 | 16° 6 | 4°43 | n.a. | S 24 |
| S 25 | 22 1 41 | 28°25'58 | 1♈19 | 19°16 | 0♎55 | 7°33 | 8°20 | 14°59 | 5°58 | 5°33 | 25°27 | 17°33 | 16° 3 | 4°50 | n.a. | S 25 |
| M26 | 22 5 38 | 29°24'49 | 14°50 | 18°40 | 2° 8 | 8° 5 | 8°27 | 15° 2 | 5°57 | 5°33 | 25°27 | 17°27 | 15°59 | 4°57 | n.a. | M26 |
| T 27 | 22 9 35 | 0♍23'41 | 27°56 | 18°12 | 3°20 | 8°37 | 8°33 | 15° 5 | 5°57 | 5°34 | 25°27 | 17°21 | 15°56 | 5° 3 | n.a. | T 27 |
| W28 | 22 13 31 | 1°22'36 | 10♉38 | 17°53 | 4°33 | 9° 9 | 8°40 | 15° 9 | 5°56 | 5°34 | 25°27 | 17°17 | 15°53 | 5°10 | n.a. | W28 |
| T 29 | 22 17 28 | 2°21'33 | 23° 0 | 17°D45 | 5°46 | 9°40 | 8°46 | 15°12 | 5°55 | 5°35 | 25°R27 | 17°15 | 15°50 | 5°16 | n.a. | T 29 |
| F 30 | 22 21 24 | 3°20'33 | 5♊ 6 | 17°47 | 6°58 | 10°11 | 8°52 | 15°16 | 5°54 | 5°35 | 25°27 | 17°D15 | 15°47 | 5°23 | n.a. | F 30 |
| S 31 | 22 25 21 | 4♍19'35 | 17♊ 0 | 17♌59 | 8♎11 | 10♊43 | 8♊58 | 15♏19 | 5♉54 | 5♊35 | 25♉27 | 17♑15 | 15♑43 | 5♋30 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| T 1 | 19n13 | 20n57 | 4n43 | 8n31 | 3s 1 | 12n 8 | 1n14 | 18n18 | 0s39 | 20n51 | 0s32 | 14s28 | 1n52 | 13n16 | 0s24 | 20n 3 | 1s23 | 11n14 | 8s19 | 22s27 | 22s34 | 25n 2 | | | n.a. |
| F 2 | 18 58 | 23 40 | 4 8 | 8 12 | 3 10 | 11 40 | 1 12 | 18 27 | 0 38 | 20 52 | 0 32 | 14 29 | 1 52 | 13 17 | 0 24 | 20 3 | 1 23 | 11 14 | 8 19 | 22 27 | 22 35 | 25 1 | | | n.a. |
| S 3 | 18 44 | 25 19 | 3 21 | 7 55 | 3 20 | 11 12 | 1 11 | 18 37 | 0 37 | 20 54 | 0 32 | 14 29 | 1 52 | 13 17 | 0 24 | 20 3 | 1 23 | 11 14 | 8 19 | 22 27 | 22 35 | 25 0 | | | n.a. |
| S 4 | 18 29 | 25 49 | 2 27 | 7 40 | 3 29 | 10 43 | 1 9 | 18 47 | 0 37 | 20 56 | 0 32 | 14 30 | 1 52 | 13 17 | 0 24 | 20 3 | 1 23 | 11 14 | 8 19 | 22 27 | 22 35 | 24 59 | | | n.a. |
| M 5 | 18 13 | 25 8 | 1 27 | 7 27 | 3 37 | 10 14 | 1 7 | 18 56 | 0 36 | 20 58 | 0 32 | 14 31 | 1 51 | 13 17 | 0 24 | 20 3 | 1 23 | 11 14 | 8 19 | 22 27 | 22 36 | 24 58 | | | n.a. |
| T 6 | 17 58 | 23 19 | 0 23 | 7 17 | 3 45 | 9 45 | 1 5 | 19 5 | 0 35 | 20 59 | 0 32 | 14 31 | 1 51 | 13 17 | 0 24 | 20 4 | 1 23 | 11 14 | 8 20 | 22 27 | 22 36 | 24 57 | | | n.a. |
| W 7 | 17 42 | 20 28 | 0s43 | 7 10 | 3 52 | 9 15 | 1 3 | 19 14 | 0 34 | 21 1 | 0 32 | 14 32 | 1 51 | 13 17 | 0 24 | 20 4 | 1 23 | 11 13 | 8 20 | 22 27 | 22 37 | 24 56 | | | n.a. |
| T 8 | 17 26 | 16 43 | 1 47 | 7 5 | 3 58 | 8 45 | 1 1 | 19 23 | 0 33 | 21 2 | 0 32 | 14 33 | 1 51 | 13 18 | 0 24 | 20 4 | 1 23 | 11 13 | 8 20 | 22 27 | 22 37 | 24 55 | | | n.a. |
| F 9 | 17 9 | 12 15 | 2 47 | 7 3 | 4 4 | 8 15 | 0 59 | 19 32 | 0 32 | 21 4 | 0 32 | 14 33 | 1 50 | 13 18 | 0 24 | 20 4 | 1 23 | 11 13 | 8 20 | 22 27 | 22 37 | 24 54 | | | n.a. |
| S 10 | 16 52 | 7 13 | 3 40 | 7 5 | 4 8 | 7 45 | 0 57 | 19 41 | 0 31 | 21 6 | 0 32 | 14 34 | 1 50 | 13 18 | 0 24 | 20 4 | 1 23 | 11 13 | 8 20 | 22 28 | 22 38 | 24 53 | | | n.a. |
| S 11 | 16 35 | 1 50 | 4 24 | 7 10 | 4 11 | 7 15 | 0 55 | 19 49 | 0 30 | 21 7 | 0 32 | 14 35 | 1 50 | 13 18 | 0 24 | 20 4 | 1 23 | 11 13 | 8 20 | 22 28 | 22 38 | 24 52 | | | n.a. |
| M12 | 16 18 | 3s42 | 4 54 | 7 19 | 4 13 | 6 44 | 0 52 | 19 58 | 0 29 | 21 9 | 0 32 | 14 36 | 1 50 | 13 18 | 0 24 | 20 5 | 1 23 | 11 13 | 8 20 | 22 29 | 22 39 | 24 51 | | | n.a. |
| T 13 | 16 0 | 9 10 | 5 11 | 7 32 | 4 13 | 6 13 | 0 50 | 20 6 | 0 28 | 21 10 | 0 32 | 14 37 | 1 49 | 13 18 | 0 24 | 20 5 | 1 23 | 11 13 | 8 21 | 22 29 | 22 39 | 24 50 | | | n.a. |
| W14 | 15 42 | 14 20 | 5 11 | 7 48 | 4 12 | 5 42 | 0 48 | 20 14 | 0 27 | 21 11 | 0 32 | 14 37 | 1 49 | 13 18 | 0 24 | 20 5 | 1 23 | 11 13 | 8 21 | 22 30 | 22 39 | 24 49 | | | n.a. |
| T 15 | 15 24 | 18 54 | 4 54 | 8 7 | 4 9 | 5 11 | 0 45 | 20 22 | 0 26 | 21 13 | 0 32 | 14 38 | 1 49 | 13 18 | 0 24 | 20 5 | 1 23 | 11 13 | 8 21 | 22 30 | 22 40 | 24 48 | | | n.a. |
| F 16 | 15 6 | 22 33 | 4 21 | 8 30 | 4 4 | 4 40 | 0 43 | 20 30 | 0 25 | 21 14 | 0 32 | 14 39 | 1 49 | 13 18 | 0 24 | 20 5 | 1 23 | 11 13 | 8 21 | 22 30 | 22 40 | 24 47 | | | n.a. |
| S 17 | 14 47 | 24 56 | 3 31 | 8 57 | 3 57 | 4 8 | 0 40 | 20 37 | 0 24 | 21 16 | 0 32 | 14 40 | 1 49 | 13 18 | 0 24 | 20 5 | 1 23 | 11 13 | 8 21 | 22 30 | 22 41 | 24 46 | | | n.a. |
| S 18 | 14 28 | 25 46 | 2 27 | 9 26 | 3 48 | 3 37 | 0 38 | 20 45 | 0 23 | 21 17 | 0 32 | 14 41 | 1 48 | 13 18 | 0 24 | 20 5 | 1 23 | 11 13 | 8 21 | 22 30 | 22 41 | 24 45 | | | n.a. |
| M19 | 14 9 | 24 51 | 1 13 | 9 57 | 3 37 | 3 5 | 0 35 | 20 52 | 0 22 | 21 18 | 0 32 | 14 42 | 1 48 | 13 18 | 0 24 | 20 5 | 1 23 | 11 13 | 8 21 | 22 30 | 22 41 | 24 44 | | | n.a. |
| T 20 | 13 49 | 22 13 | 0n 7 | 10 30 | 3 24 | 2 34 | 0 32 | 20 59 | 0 21 | 21 19 | 0 32 | 14 43 | 1 48 | 13 18 | 0 24 | 20 5 | 1 23 | 11 13 | 8 22 | 22 30 | 22 42 | 24 43 | | | n.a. |
| W21 | 13 30 | 18 7 | 1 26 | 11 5 | 3 9 | 2 2 | 0 30 | 21 6 | 0 20 | 21 21 | 0 32 | 14 44 | 1 48 | 13 17 | 0 24 | 20 6 | 1 23 | 11 13 | 8 22 | 22 30 | 22 42 | 24 41 | | | n.a. |
| T 22 | 13 10 | 12 54 | 2 39 | 11 40 | 2 53 | 1 30 | 0 27 | 21 13 | 0 19 | 21 22 | 0 32 | 14 45 | 1 47 | 13 17 | 0 24 | 20 6 | 1 23 | 11 13 | 8 22 | 22 30 | 22 43 | 24 40 | | | n.a. |
| F 23 | 12 50 | 7 2 | 3 41 | 12 15 | 2 35 | 0 58 | 0 24 | 21 20 | 0 18 | 21 23 | 0 32 | 14 46 | 1 47 | 13 17 | 0 24 | 20 6 | 1 23 | 11 12 | 8 22 | 22 31 | 22 43 | 24 39 | | | n.a. |
| S 24 | 12 29 | 0 56 | 4 28 | 12 49 | 2 17 | 0 26 | 0 21 | 21 26 | 0 17 | 21 24 | 0 32 | 14 47 | 1 47 | 13 17 | 0 24 | 20 6 | 1 23 | 11 12 | 8 22 | 22 31 | 22 43 | 24 38 | | | n.a. |
| S 25 | 12 9 | 5n 4 | 4 58 | 13 21 | 1 58 | 0s 5 | 0 18 | 21 33 | 0 16 | 21 25 | 0 32 | 14 49 | 1 47 | 13 17 | 0 24 | 20 6 | 1 23 | 11 12 | 8 22 | 22 32 | 22 44 | 24 37 | | | n.a. |
| M26 | 11 48 | 10 39 | 5 9 | 13 51 | 1 38 | 0 37 | 0 15 | 21 39 | 0 15 | 21 26 | 0 32 | 14 50 | 1 47 | 13 17 | 0 24 | 20 6 | 1 23 | 11 12 | 8 22 | 22 33 | 22 44 | 24 36 | | | n.a. |
| T 27 | 11 27 | 15 35 | 5 5 | 14 18 | 1 18 | 1 9 | 0 12 | 21 46 | 0 14 | 21 27 | 0 32 | 14 51 | 1 46 | 13 16 | 0 24 | 20 6 | 1 23 | 11 12 | 8 23 | 22 34 | 22 45 | 24 35 | | | n.a. |
| W28 | 11 6 | 19 40 | 4 45 | 14 43 | 0 59 | 1 41 | 0 9 | 21 52 | 0 13 | 21 28 | 0 32 | 14 52 | 1 46 | 13 16 | 0 24 | 20 6 | 1 24 | 11 12 | 8 23 | 22 34 | 22 45 | 24 34 | | | n.a. |
| T 29 | 10 45 | 22 47 | 4 12 | 15 3 | 0 39 | 2 13 | 0 6 | 21 58 | 0 11 | 21 29 | 0 32 | 14 53 | 1 46 | 13 16 | 0 24 | 20 6 | 1 24 | 11 12 | 8 23 | 22 35 | 22 45 | 24 33 | | | n.a. |
| F 30 | 10 23 | 24 48 | 3 28 | 15 20 | 0 21 | 2 45 | 0 3 | 22 3 | 0 10 | 21 30 | 0 32 | 14 55 | 1 46 | 13 16 | 0 24 | 20 6 | 1 24 | 11 12 | 8 23 | 22 35 | 22 46 | 24 31 | | | n.a. |
| S 31 | 10n 2 | 25n39 | 2n36 | 15n33 | 0s 3 | 3s17 | 0s 0 | 22n 9 | 0s 9 | 21n31 | 0s32 | 14s56 | 1n45 | 13n15 | 0s24 | 20n 6 | 1s24 | 11n11 | 8s23 | 22s35 | 22s46 | 24n30 | | | n.a. |

Julian Day Number = 1693876.5, Delta T = 03h09m04s
Ecliptic obliquity = 23°42'18, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°06'20, Lahiri = - 4°59'20 Julian Calendar 1 Aug. 76 BCE == Greg. Calendar 30 July 076 BCE

The year -75 astronomical counting style corresponds to year 076 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 76 BCE
# geocentric

## SEPTEMBER 76 BCE (-75) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 22 29 17 | 5♍18'40 | 28♊49 | 18♌21 | 9♎24 | 11♊13 | 9♊ 3 | 15♏23 | 5°R53 | 5♊36 | 25°R27 | 17♑17 | 15♑40 | 5♋36 | n.a. | S 1 |
| M 2 | 22 33 14 | 6°17'47 | 10♋37 | 18°53 | 10°36 | 11°44 | 9° 9 | 15°27 | 5♉52 | 5°36 | 25♉27 | 17°18 | 15°37 | 5°43 | n.a. | M 2 |
| T 3 | 22 37 10 | 7°16'56 | 22°28 | 19°34 | 11°49 | 12°14 | 9°14 | 15°30 | 5°51 | 5°36 | 25°27 | 17°R18 | 15°34 | 5°50 | n.a. | T 3 |
| W 4 | 22 41 7 | 8°16'08 | 4♌28 | 20°23 | 13° 1 | 12°45 | 9°19 | 15°34 | 5°50 | 5°37 | 25°27 | 17°16 | 15°31 | 5°56 | n.a. | W 4 |
| T 5 | 22 45 4 | 9°15'22 | 16°40 | 21°20 | 14°14 | 13°14 | 9°24 | 15°38 | 5°49 | 5°37 | 25°27 | 17°12 | 15°28 | 6° 3 | n.a. | T 5 |
| F 6 | 22 49 0 | 10°14'38 | 29° 5 | 22°25 | 15°26 | 13°44 | 9°29 | 15°43 | 5°48 | 5°37 | 25°26 | 17° 6 | 15°24 | 6°10 | n.a. | F 6 |
| S 7 | 22 52 57 | 11°13'56 | 11♍45 | 23°36 | 16°39 | 14°13 | 9°34 | 15°47 | 5°47 | 5°37 | 25°26 | 16°58 | 15°21 | 6°16 | n.a. | S 7 |
| S 8 | 22 56 53 | 12°13'17 | 24°40 | 24°52 | 17°51 | 14°43 | 9°38 | 15°51 | 5°46 | 5°37 | 25°26 | 16°48 | 15°18 | 6°23 | n.a. | S 8 |
| M 9 | 23 0 50 | 13°12'39 | 7♎49 | 26°14 | 19° 3 | 15°11 | 9°42 | 15°55 | 5°44 | 5°37 | 25°26 | 16°38 | 15°15 | 6°30 | n.a. | M 9 |
| T 10 | 23 4 46 | 14°12'03 | 21°11 | 27°40 | 20°16 | 15°40 | 9°46 | 16° 0 | 5°43 | 5°38 | 25°25 | 16°28 | 15°12 | 6°36 | n.a. | T 10 |
| W11 | 23 8 43 | 15°11'30 | 4♏45 | 29° 9 | 21°28 | 16° 8 | 9°50 | 16° 4 | 5°42 | 5°R38 | 25°25 | 16°21 | 15° 8 | 6°43 | n.a. | W11 |
| T 12 | 23 12 39 | 16°10'58 | 18°28 | 0♍42 | 22°40 | 16°36 | 9°54 | 16° 9 | 5°40 | 5°38 | 25°25 | 16°15 | 15° 5 | 6°50 | n.a. | T 12 |
| F 13 | 23 16 36 | 17°10'29 | 2♐19 | 2°17 | 23°53 | 17° 4 | 9°58 | 16°13 | 5°39 | 5°37 | 25°25 | 16°12 | 15° 2 | 6°56 | n.a. | F 13 |
| S 14 | 23 20 32 | 18°10'01 | 16°18 | 3°55 | 25° 5 | 17°32 | 10° 1 | 16°18 | 5°38 | 5°37 | 25°24 | 16°D11 | 14°59 | 7° 3 | n.a. | S 14 |
| S 15 | 23 24 29 | 19° 9'35 | 0♑25 | 5°34 | 26°17 | 17°59 | 10° 4 | 16°23 | 5°36 | 5°37 | 25°24 | 16°11 | 14°56 | 7° 9 | n.a. | S 15 |
| M16 | 23 28 26 | 20° 9'11 | 14°37 | 7°14 | 27°29 | 18°26 | 10° 7 | 16°28 | 5°35 | 5°37 | 25°23 | 16°R12 | 14°53 | 7°16 | n.a. | M16 |
| T 17 | 23 32 22 | 21° 8'49 | 28°53 | 8°55 | 28°41 | 18°52 | 10°10 | 16°33 | 5°33 | 5°37 | 25°23 | 16°11 | 14°49 | 7°23 | n.a. | T 17 |
| W18 | 23 36 19 | 22° 8'28 | 13♒12 | 10°37 | 29°53 | 19°18 | 10°13 | 16°38 | 5°31 | 5°37 | 25°23 | 16° 8 | 14°46 | 7°29 | n.a. | W18 |
| T 19 | 23 40 15 | 23° 8'09 | 27°29 | 12°19 | 1♏ 5 | 19°44 | 10°15 | 16°43 | 5°30 | 5°37 | 25°22 | 16° 3 | 14°43 | 7°36 | n.a. | T 19 |
| F 20 | 23 44 12 | 24° 7'53 | 11♓40 | 14° 2 | 2°17 | 20°10 | 10°17 | 16°48 | 5°28 | 5°36 | 25°22 | 15°55 | 14°40 | 7°43 | n.a. | F 20 |
| S 21 | 23 48 8 | 25° 7'38 | 25°40 | 15°45 | 3°29 | 20°35 | 10°19 | 16°53 | 5°26 | 5°36 | 25°21 | 15°44 | 14°37 | 7°49 | n.a. | S 21 |
| S 22 | 23 52 5 | 26° 7'25 | 9♈23 | 17°28 | 4°41 | 21° 0 | 10°21 | 16°58 | 5°25 | 5°36 | 25°21 | 15°33 | 14°34 | 7°56 | n.a. | S 22 |
| M23 | 23 56 1 | 27° 7'15 | 22°47 | 19°11 | 5°52 | 21°24 | 10°23 | 17° 3 | 5°23 | 5°35 | 25°20 | 15°21 | 14°30 | 8° 3 | n.a. | M23 |
| T 24 | 23 59 58 | 28° 7'06 | 5♉50 | 20°53 | 7° 4 | 21°49 | 10°25 | 17° 9 | 5°21 | 5°35 | 25°20 | 15°10 | 14°27 | 8° 9 | n.a. | T 24 |
| W25 | 0 3 55 | 29° 7'00 | 18°31 | 22°35 | 8°16 | 22°13 | 10°26 | 17°14 | 5°19 | 5°34 | 25°19 | 15° 2 | 14°24 | 8°16 | n.a. | W25 |
| T 26 | 0 7 51 | 0♎ 6'56 | 0♊53 | 24°17 | 9°28 | 22°36 | 10°27 | 17°19 | 5°17 | 5°34 | 25°18 | 14°55 | 14°21 | 8°23 | n.a. | T 26 |
| F 27 | 0 11 48 | 1° 6'55 | 12°59 | 25°59 | 10°39 | 22°59 | 10°28 | 17°25 | 5°15 | 5°33 | 25°18 | 14°52 | 14°18 | 8°29 | n.a. | F 27 |
| S 28 | 0 15 44 | 2° 6'56 | 24°53 | 27°40 | 11°51 | 23°22 | 10°28 | 17°31 | 5°13 | 5°33 | 25°17 | 14°50 | 14°14 | 8°36 | n.a. | S 28 |
| S 29 | 0 19 41 | 3° 6'59 | 6♋42 | 29°20 | 13° 2 | 23°44 | 10°29 | 17°36 | 5°11 | 5°32 | 25°17 | 14°D50 | 14°11 | 8°42 | n.a. | S 29 |
| M30 | 0 23 37 | 4♎ 7'04 | 18♋30 | 1♎ 1 | 14♏14 | 24♊ 6 | 10♊29 | 17♏42 | 5♉ 9 | 5♊32 | 25♉16 | 14°R50 | 14♑ 8 | 8♋49 | n.a. | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 9n40 | 25n20 | 1n38 | 15n42 | 0n13 | 3s49 | 0s 3 | 22n15 | 0s 8 | 21n32 | 0s32 | 14s57 | 1n45 | 13n15 | 0s24 | 20n 6 | 1s24 | 11n11 | 8s23 | 22s34 | 22s46 | 24n29 | | n.a. |
| M 2 | 9 18 | 23 53 | 0 36 | 15 47 | 0 28 | 4 20 | 0 6 | 22 20 | 0 7 | 21 33 | 0 31 | 14 58 | 1 45 | 13 15 | 0 24 | 20 6 | 1 24 | 11 11 | 8 23 | 22 34 | 22 47 | 24 28 | | n.a. |
| T 3 | 8 56 | 21 21 | 0s28 | 15 47 | 0 43 | 4 52 | 0 10 | 22 25 | 0 5 | 21 34 | 0 31 | 15 0 | 1 45 | 13 14 | 0 24 | 20 6 | 1 24 | 11 11 | 8 23 | 22 34 | 22 47 | 24 27 | | n.a. |
| W 4 | 8 34 | 17 53 | 1 31 | 15 44 | 0 55 | 5 24 | 0 13 | 22 30 | 0 4 | 21 35 | 0 31 | 15 1 | 1 45 | 13 14 | 0 24 | 20 6 | 1 24 | 11 11 | 8 24 | 22 35 | 22 48 | 24 26 | | n.a. |
| T 5 | 8 11 | 13 37 | 2 31 | 15 36 | 1 7 | 5 55 | 0 16 | 22 35 | 0 3 | 21 35 | 0 31 | 15 2 | 1 44 | 13 14 | 0 24 | 20 6 | 1 24 | 11 11 | 8 24 | 22 35 | 22 48 | 24 24 | | n.a. |
| F 6 | 7 49 | 8 43 | 3 25 | 15 25 | 1 17 | 6 26 | 0 19 | 22 40 | 0 2 | 21 36 | 0 31 | 15 4 | 1 44 | 13 13 | 0 24 | 20 6 | 1 24 | 11 10 | 8 24 | 22 36 | 22 48 | 24 23 | | n.a. |
| S 7 | 7 26 | 3 23 | 4 10 | 15 10 | 1 26 | 6 58 | 0 23 | 22 45 | 0 0 | 21 37 | 0 31 | 15 5 | 1 44 | 13 13 | 0 24 | 20 6 | 1 24 | 11 10 | 8 24 | 22 37 | 22 49 | 24 22 | | n.a. |
| S 8 | 7 3 | 2s10 | 4 43 | 14 51 | 1 34 | 7 29 | 0 26 | 22 50 | 0n 1 | 21 37 | 0 31 | 15 7 | 1 44 | 13 13 | 0 24 | 20 6 | 1 24 | 11 10 | 8 24 | 22 38 | 22 49 | 24 21 | | n.a. |
| M 9 | 6 40 | 7 44 | 5 1 | 14 29 | 1 40 | 8 0 | 0 29 | 22 54 | 0 2 | 21 38 | 0 31 | 15 8 | 1 44 | 13 12 | 0 24 | 20 6 | 1 24 | 11 10 | 8 24 | 22 39 | 22 49 | 24 20 | | n.a. |
| T 10 | 6 17 | 13 2 | 5 4 | 14 4 | 1 46 | 8 30 | 0 33 | 22 59 | 0 3 | 21 39 | 0 31 | 15 10 | 1 43 | 13 12 | 0 24 | 20 6 | 1 24 | 11 10 | 8 24 | 22 41 | 22 50 | 24 18 | | n.a. |
| W11 | 5 54 | 17 47 | 4 49 | 13 37 | 1 50 | 9 1 | 0 36 | 23 3 | 0 5 | 21 39 | 0 31 | 15 11 | 1 43 | 13 11 | 0 24 | 20 6 | 1 24 | 11 10 | 8 25 | 22 42 | 22 50 | 24 17 | | n.a. |
| T 12 | 5 31 | 21 39 | 4 18 | 13 7 | 1 53 | 9 31 | 0 39 | 23 8 | 0 6 | 21 40 | 0 31 | 15 13 | 1 43 | 13 11 | 0 24 | 20 6 | 1 24 | 11 9 | 8 25 | 22 42 | 22 50 | 24 16 | | n.a. |
| F 13 | 5 7 | 24 19 | 3 32 | 12 34 | 1 56 | 10 1 | 0 43 | 23 12 | 0 8 | 21 41 | 0 31 | 15 14 | 1 43 | 13 10 | 0 24 | 20 6 | 1 24 | 11 9 | 8 25 | 22 43 | 22 51 | 24 15 | | n.a. |
| S 14 | 4 44 | 25 31 | 2 32 | 12 0 | 1 57 | 10 31 | 0 46 | 23 16 | 0 9 | 21 41 | 0 31 | 15 16 | 1 43 | 13 10 | 0 24 | 20 6 | 1 24 | 11 9 | 8 25 | 22 43 | 22 51 | 24 14 | | n.a. |
| S 15 | 4 20 | 25 6 | 1 23 | 11 24 | 1 57 | 11 1 | 0 49 | 23 20 | 0 10 | 21 42 | 0 31 | 15 17 | 1 42 | 13 9 | 0 24 | 20 6 | 1 24 | 11 9 | 8 25 | 22 43 | 22 52 | 24 12 | | n.a. |
| M16 | 3 57 | 23 2 | 0 8 | 10 46 | 1 57 | 11 31 | 0 53 | 23 23 | 0 12 | 21 42 | 0 31 | 15 19 | 1 42 | 13 9 | 0 24 | 20 6 | 1 24 | 11 9 | 8 25 | 22 43 | 22 52 | 24 11 | | n.a. |
| T 17 | 3 33 | 19 31 | 1n 7 | 10 7 | 1 56 | 12 0 | 0 56 | 23 27 | 0 13 | 21 42 | 0 31 | 15 20 | 1 42 | 13 8 | 0 24 | 20 6 | 1 24 | 11 8 | 8 25 | 22 43 | 22 52 | 24 10 | | n.a. |
| W18 | 3 9 | 14 50 | 2 19 | 9 26 | 1 55 | 12 29 | 0 59 | 23 31 | 0 15 | 21 43 | 0 31 | 15 22 | 1 42 | 13 8 | 0 24 | 20 6 | 1 24 | 11 8 | 8 25 | 22 43 | 22 53 | 24 9 | | n.a. |
| T 19 | 2 45 | 9 20 | 3 21 | 8 45 | 1 53 | 12 57 | 1 3 | 23 34 | 0 16 | 21 43 | 0 31 | 15 24 | 1 42 | 13 7 | 0 24 | 20 6 | 1 24 | 11 8 | 8 26 | 22 44 | 22 53 | 24 7 | | n.a. |
| F 20 | 2 21 | 3 25 | 4 10 | 8 2 | 1 50 | 13 26 | 1 6 | 23 38 | 0 18 | 21 44 | 0 31 | 15 25 | 1 41 | 13 7 | 0 24 | 20 6 | 1 24 | 11 8 | 8 26 | 22 45 | 22 53 | 24 6 | | n.a. |
| S 21 | 1 57 | 2n36 | 4 44 | 7 19 | 1 47 | 13 54 | 1 9 | 23 41 | 0 19 | 21 44 | 0 31 | 15 27 | 1 41 | 13 6 | 0 24 | 20 5 | 1 24 | 11 7 | 8 26 | 22 46 | 22 54 | 24 5 | | n.a. |
| S 22 | 1 33 | 8 21 | 5 0 | 6 35 | 1 43 | 14 22 | 1 13 | 23 44 | 0 21 | 21 44 | 0 31 | 15 28 | 1 41 | 13 5 | 0 24 | 20 5 | 1 24 | 11 7 | 8 26 | 22 47 | 22 54 | 24 4 | | n.a. |
| M23 | 1 9 | 13 35 | 4 59 | 5 51 | 1 39 | 14 49 | 1 16 | 23 48 | 0 22 | 21 45 | 0 31 | 15 30 | 1 41 | 13 5 | 0 24 | 20 5 | 1 25 | 11 7 | 8 26 | 22 49 | 22 54 | 24 2 | | n.a. |
| T 24 | 0 45 | 18 3 | 4 43 | 5 6 | 1 35 | 15 16 | 1 19 | 23 51 | 0 24 | 21 45 | 0 31 | 15 32 | 1 41 | 13 4 | 0 24 | 20 5 | 1 25 | 11 7 | 8 26 | 22 50 | 22 55 | 24 1 | | n.a. |
| W25 | 0 21 | 21 34 | 4 13 | 4 21 | 1 30 | 15 43 | 1 22 | 23 54 | 0 25 | 21 45 | 0 31 | 15 33 | 1 41 | 13 4 | 0 24 | 20 5 | 1 25 | 11 6 | 8 26 | 22 51 | 22 55 | 24 0 | | n.a. |
| T 26 | 0s 3 | 24 0 | 3 31 | 3 36 | 1 25 | 16 9 | 1 25 | 23 57 | 0 27 | 21 45 | 0 31 | 15 35 | 1 40 | 13 3 | 0 24 | 20 5 | 1 25 | 11 6 | 8 26 | 22 52 | 22 55 | 23 58 | | n.a. |
| F 27 | 0 27 | 25 16 | 2 41 | 2 50 | 1 20 | 16 35 | 1 29 | 24 0 | 0 29 | 21 45 | 0 31 | 15 37 | 1 40 | 13 2 | 0 24 | 20 5 | 1 25 | 11 6 | 8 27 | 22 52 | 22 56 | 23 57 | | n.a. |
| S 28 | 0 51 | 25 20 | 1 44 | 2 5 | 1 15 | 17 1 | 1 32 | 24 3 | 0 30 | 21 45 | 0 31 | 15 39 | 1 40 | 13 2 | 0 24 | 20 5 | 1 25 | 11 6 | 8 27 | 22 52 | 22 56 | 23 56 | | n.a. |
| S 29 | 1 15 | 24 15 | 0 43 | 1 19 | 1 9 | 17 26 | 1 35 | 24 5 | 0 32 | 21 46 | 0 31 | 15 40 | 1 40 | 13 1 | 0 24 | 20 5 | 1 25 | 11 5 | 8 27 | 22 52 | 22 56 | 23 54 | | n.a. |
| M30 | 1s39 | 22n 5 | 0s19 | 0n33 | 1n 3 | 17s51 | 1s38 | 24n 8 | 0n34 | 21n46 | 0s31 | 15s42 | 1n40 | 13n 0 | 0s24 | 20n 4 | 1s25 | 11n 5 | 8s27 | 22s52 | 22s57 | 23n53 | | n.a. |

Julian Day Number = 1693907.5, Delta T = 03h09m03s
Ecliptic obliquity = 23°42'18, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°06'16, Lahiri = - 4°59'15 Julian Calendar 1 Sept. 76 BCE == Greg. Calendar 30 Aug. 076 BCE


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# ASTRODIENST EPHEMERIS for the year 76 BCE
# geocentric

## OCTOBER 76 BCE (-75) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 27 34 | 5♎ 7'11 | 0♌23 | 2♎40 | 15♏25 | 24♊28 | 10°R29 | 17♏48 | 5°R 7 | 5°R31 | 25°R15 | 14°R50 | 14♑ 5 | 8♋56 | n.a. | T 1 |
| W 2 | 0 31 30 | 6° 7'21 | 12°26 | 4°20 | 16°36 | 24°49 | 10♊29 | 17°53 | 5♉ 5 | 5♊30 | 25♉15 | 14♑47 | 14° 2 | 9° 2 | n.a. | W 2 |
| T 3 | 0 35 27 | 7° 7'32 | 24°44 | 5°58 | 17°48 | 25° 9 | 10°29 | 17°59 | 5° 3 | 5°30 | 25°14 | 14°41 | 13°59 | 9° 9 | n.a. | T 3 |
| F 4 | 0 39 24 | 8° 7'46 | 7♍20 | 7°37 | 18°59 | 25°30 | 10°28 | 18° 5 | 5° 1 | 5°29 | 25°13 | 14°33 | 13°55 | 9°16 | n.a. | F 4 |
| S 5 | 0 43 20 | 9° 8'02 | 20°15 | 9°15 | 20°10 | 25°49 | 10°28 | 18°11 | 4°59 | 5°28 | 25°12 | 14°22 | 13°52 | 9°22 | n.a. | S 5 |
| S 6 | 0 47 17 | 10° 8'20 | 3♎30 | 10°52 | 21°21 | 26° 9 | 10°27 | 18°17 | 4°56 | 5°27 | 25°12 | 14°10 | 13°49 | 9°29 | n.a. | S 6 |
| M 7 | 0 51 13 | 11° 8'39 | 17° 4 | 12°29 | 22°32 | 26°27 | 10°26 | 18°23 | 4°54 | 5°27 | 25°11 | 13°56 | 13°46 | 9°36 | n.a. | M 7 |
| T 8 | 0 55 10 | 12° 9'01 | 0♏52 | 14° 6 | 23°43 | 26°46 | 10°24 | 18°29 | 4°52 | 5°26 | 25°10 | 13°44 | 13°43 | 9°42 | n.a. | T 8 |
| W 9 | 0 59 6 | 13° 9'24 | 14°52 | 15°42 | 24°54 | 27° 4 | 10°23 | 18°35 | 4°50 | 5°25 | 25° 9 | 13°33 | 13°39 | 9°49 | n.a. | W 9 |
| T 10 | 1 3 3 | 14° 9'49 | 28°58 | 17°18 | 26° 5 | 27°21 | 10°21 | 18°41 | 4°47 | 5°24 | 25° 8 | 13°25 | 13°36 | 9°56 | n.a. | T 10 |
| F 11 | 1 6 59 | 15°10'15 | 13♐ 7 | 18°53 | 27°16 | 27°38 | 10°19 | 18°48 | 4°45 | 5°23 | 25° 7 | 13°20 | 13°33 | 10° 2 | n.a. | F 11 |
| S 12 | 1 10 56 | 16°10'44 | 27°16 | 20°28 | 28°26 | 27°54 | 10°17 | 18°54 | 4°43 | 5°22 | 25° 7 | 13°18 | 13°30 | 10° 9 | n.a. | S 12 |
| S 13 | 1 14 52 | 17°11'13 | 11♑23 | 22° 3 | 29°37 | 28°10 | 10°15 | 19° 0 | 4°40 | 5°21 | 25° 6 | 13°18 | 13°27 | 10°16 | n.a. | S 13 |
| M14 | 1 18 49 | 18°11'44 | 25°27 | 23°37 | 0♐47 | 28°25 | 10°12 | 19° 7 | 4°38 | 5°20 | 25° 5 | 13°18 | 13°24 | 10°22 | n.a. | M14 |
| T 15 | 1 22 46 | 19°12'16 | 9♒28 | 25°12 | 1°58 | 28°40 | 10° 9 | 19°13 | 4°36 | 5°19 | 25° 4 | 13°17 | 13°20 | 10°29 | n.a. | T 15 |
| W16 | 1 26 42 | 20°12'49 | 23°25 | 26°45 | 3° 8 | 28°54 | 10° 7 | 19°19 | 4°33 | 5°18 | 25° 3 | 13°13 | 13°17 | 10°35 | n.a. | W16 |
| T 17 | 1 30 39 | 21°13'24 | 7♓16 | 28°19 | 4°18 | 29° 8 | 10° 3 | 19°26 | 4°31 | 5°17 | 25° 2 | 13° 7 | 13°14 | 10°42 | n.a. | T 17 |
| F 18 | 1 34 35 | 22°14'00 | 21° 0 | 29°52 | 5°29 | 29°21 | 10° 0 | 19°32 | 4°28 | 5°16 | 25° 1 | 12°58 | 13°11 | 10°49 | n.a. | F 18 |
| S 19 | 1 38 32 | 23°14'38 | 4♈34 | 1♏25 | 6°39 | 29°33 | 9°57 | 19°39 | 4°26 | 5°14 | 25° 0 | 12°47 | 13° 8 | 10°55 | n.a. | S 19 |
| S 20 | 1 42 28 | 24°15'17 | 17°56 | 2°58 | 7°49 | 29°45 | 9°53 | 19°45 | 4°23 | 5°13 | 24°59 | 12°34 | 13° 5 | 11° 2 | n.a. | S 20 |
| M21 | 1 46 25 | 25°15'57 | 1♉ 3 | 4°31 | 8°58 | 29°56 | 9°49 | 19°52 | 4°21 | 5°12 | 24°58 | 12°21 | 13° 1 | 11° 9 | n.a. | M21 |
| T 22 | 1 50 21 | 26°16'40 | 13°53 | 6° 3 | 10° 8 | 0♋ 6 | 9°45 | 19°59 | 4°18 | 5°11 | 24°57 | 12° 9 | 12°58 | 11°15 | n.a. | T 22 |
| W23 | 1 54 18 | 27°17'23 | 26°27 | 7°35 | 11°18 | 0°16 | 9°41 | 20° 5 | 4°16 | 5°10 | 24°56 | 11°59 | 12°55 | 11°22 | n.a. | W23 |
| T 24 | 1 58 15 | 28°18'09 | 8♊44 | 9° 7 | 12°27 | 0°26 | 9°36 | 20°12 | 4°13 | 5° 8 | 24°55 | 11°51 | 12°52 | 11°29 | n.a. | T 24 |
| F 25 | 2 2 11 | 29°18'55 | 20°48 | 10°39 | 13°37 | 0°34 | 9°32 | 20°19 | 4°11 | 5° 7 | 24°54 | 11°47 | 12°49 | 11°35 | n.a. | F 25 |
| S 26 | 2 6 8 | 0♏19'44 | 2♋42 | 12°10 | 14°46 | 0°42 | 9°27 | 20°25 | 4° 8 | 5° 6 | 24°53 | 11°45 | 12°45 | 11°42 | n.a. | S 26 |
| S 27 | 2 10 4 | 1°20'34 | 14°30 | 13°41 | 15°55 | 0°49 | 9°22 | 20°32 | 4° 6 | 5° 4 | 24°52 | 11°D44 | 12°42 | 11°49 | n.a. | S 27 |
| M28 | 2 14 1 | 2°21'26 | 26°17 | 15°12 | 17° 4 | 0°56 | 9°17 | 20°39 | 4° 3 | 5° 3 | 24°51 | 11°45 | 12°39 | 11°55 | n.a. | M28 |
| T 29 | 2 17 57 | 3°22'19 | 8♌ 9 | 16°43 | 18°13 | 1° 1 | 9°12 | 20°46 | 4° 1 | 5° 2 | 24°50 | 11°R45 | 12°36 | 12° 2 | n.a. | T 29 |
| W30 | 2 21 54 | 4°23'14 | 20°12 | 18°14 | 19°22 | 1° 6 | 9° 6 | 20°53 | 3°58 | 5° 0 | 24°49 | 11°43 | 12°33 | 12° 8 | n.a. | W30 |
| T 31 | 2 25 50 | 5♏24'10 | 2♍31 | 19♏44 | 20♐31 | 1♋11 | 9♊ 1 | 21♏ 0 | 3♉56 | 4♊59 | 24♉48 | 11♑40 | 12♑30 | 12♋15 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 2s 3 | 18n58 | 1s22 | 0s12 | 0n57 | 18s15 | 1s41 | 24n11 | 0n36 | 21n46 | 0s31 | 15s44 | 1n40 | 13n 0 | 0s24 | 20n 4 | 1s25 | 11n 5 | 8s27 | 22s52 | 22s57 | 23n52 | | | n.a. |
| W 2 | 2 27 | 15 1 | 2 21 | 0 57 | 0 51 | 18 39 | 1 44 | 24 13 | 0 37 | 21 46 | 0 31 | 15 46 | 1 39 | 12 59 | 0 24 | 20 4 | 1 25 | 11 5 | 8 27 | 22 53 | 22 57 | 23 50 | | | n.a. |
| T 3 | 2 52 | 10 22 | 3 14 | 1 43 | 0 45 | 19 2 | 1 47 | 24 16 | 0 39 | 21 46 | 0 31 | 15 47 | 1 39 | 12 58 | 0 24 | 20 4 | 1 25 | 11 4 | 8 27 | 22 53 | 22 58 | 23 49 | | | n.a. |
| F 4 | 3 16 | 5 12 | 4 0 | 2 28 | 0 39 | 19 25 | 1 50 | 24 18 | 0 41 | 21 46 | 0 31 | 15 49 | 1 39 | 12 57 | 0 24 | 20 4 | 1 25 | 11 4 | 8 27 | 22 54 | 22 58 | 23 48 | | | n.a. |
| S 5 | 3 40 | 0s18 | 4 34 | 3 13 | 0 32 | 19 47 | 1 53 | 24 21 | 0 43 | 21 46 | 0 31 | 15 51 | 1 39 | 12 57 | 0 24 | 20 4 | 1 25 | 11 4 | 8 27 | 22 55 | 22 58 | 23 46 | | | n.a. |
| S 6 | 4 4 | 5 55 | 4 55 | 3 57 | 0 26 | 20 9 | 1 56 | 24 23 | 0 44 | 21 46 | 0 31 | 15 53 | 1 39 | 12 56 | 0 24 | 20 3 | 1 25 | 11 4 | 8 27 | 22 57 | 22 59 | 23 45 | | | n.a. |
| M 7 | 4 27 | 11 23 | 5 0 | 4 42 | 0 19 | 20 31 | 1 58 | 24 26 | 0 46 | 21 45 | 0 30 | 15 55 | 1 39 | 12 55 | 0 24 | 20 3 | 1 25 | 11 3 | 8 28 | 22 58 | 22 59 | 23 44 | | | n.a. |
| T 8 | 4 51 | 16 23 | 4 47 | 5 26 | 0 13 | 20 52 | 2 1 | 24 28 | 0 48 | 21 45 | 0 30 | 15 56 | 1 39 | 12 54 | 0 24 | 20 3 | 1 25 | 11 3 | 8 28 | 22 59 | 22 59 | 23 42 | | | n.a. |
| W 9 | 5 15 | 20 34 | 4 17 | 6 9 | 0 6 | 21 12 | 2 4 | 24 30 | 0 50 | 21 45 | 0 30 | 15 58 | 1 38 | 12 54 | 0 24 | 20 3 | 1 25 | 11 3 | 8 28 | 23 0 | 23 0 | 23 41 | | | n.a. |
| T 10 | 5 39 | 23 35 | 3 31 | 6 52 | 0s 1 | 21 32 | 2 6 | 24 33 | 0 52 | 21 45 | 0 30 | 16 0 | 1 38 | 12 53 | 0 24 | 20 3 | 1 25 | 11 3 | 8 28 | 23 1 | 23 0 | 23 40 | | | n.a. |
| F 11 | 6 2 | 25 9 | 2 32 | 7 35 | 0 7 | 21 51 | 2 9 | 24 35 | 0 54 | 21 45 | 0 30 | 16 2 | 1 38 | 12 52 | 0 24 | 20 2 | 1 25 | 11 2 | 8 28 | 23 2 | 23 0 | 23 38 | | | n.a. |
| S 12 | 6 26 | 25 4 | 1 24 | 8 18 | 0 14 | 22 10 | 2 11 | 24 37 | 0 56 | 21 44 | 0 30 | 16 4 | 1 38 | 12 51 | 0 24 | 20 2 | 1 25 | 11 2 | 8 28 | 23 2 | 23 1 | 23 37 | | | n.a. |
| S 13 | 6 49 | 23 23 | 0 10 | 9 0 | 0 20 | 22 28 | 2 14 | 24 40 | 0 58 | 21 44 | 0 30 | 16 6 | 1 38 | 12 50 | 0 24 | 20 2 | 1 25 | 11 2 | 8 28 | 23 2 | 23 1 | 23 35 | | | n.a. |
| M14 | 7 13 | 20 14 | 1n 4 | 9 41 | 0 27 | 22 46 | 2 16 | 24 42 | 1 0 | 21 44 | 0 30 | 16 8 | 1 38 | 12 50 | 0 24 | 20 2 | 1 25 | 11 1 | 8 28 | 23 2 | 23 1 | 23 34 | | | n.a. |
| T 15 | 7 36 | 15 56 | 2 14 | 10 22 | 0 33 | 23 3 | 2 18 | 24 44 | 1 2 | 21 43 | 0 30 | 16 9 | 1 38 | 12 49 | 0 24 | 20 2 | 1 25 | 11 1 | 8 28 | 23 2 | 23 2 | 23 33 | | | n.a. |
| W16 | 7 59 | 10 48 | 3 15 | 11 3 | 0 40 | 23 19 | 2 21 | 24 46 | 1 4 | 21 43 | 0 30 | 16 11 | 1 38 | 12 48 | 0 24 | 20 1 | 1 25 | 11 1 | 8 28 | 23 2 | 23 2 | 23 31 | | | n.a. |
| T 17 | 8 22 | 5 10 | 4 4 | 11 43 | 0 46 | 23 35 | 2 23 | 24 49 | 1 6 | 21 43 | 0 30 | 16 13 | 1 37 | 12 47 | 0 24 | 20 1 | 1 25 | 11 1 | 8 28 | 23 3 | 23 2 | 23 30 | | | n.a. |
| F 18 | 8 45 | 0n40 | 4 39 | 12 22 | 0 52 | 23 50 | 2 25 | 24 51 | 1 9 | 21 42 | 0 30 | 16 15 | 1 37 | 12 46 | 0 24 | 20 1 | 1 25 | 11 0 | 8 28 | 23 4 | 23 3 | 23 28 | | | n.a. |
| S 19 | 9 8 | 6 23 | 4 58 | 13 1 | 0 58 | 24 4 | 2 27 | 24 53 | 1 11 | 21 42 | 0 30 | 16 17 | 1 37 | 12 46 | 0 24 | 20 1 | 1 25 | 11 0 | 8 28 | 23 5 | 23 3 | 23 27 | | | n.a. |
| S 20 | 9 30 | 11 42 | 4 59 | 13 39 | 1 5 | 24 18 | 2 29 | 24 55 | 1 13 | 21 41 | 0 30 | 16 19 | 1 37 | 12 45 | 0 24 | 20 1 | 1 25 | 11 0 | 8 28 | 23 6 | 23 3 | 23 25 | | | n.a. |
| M21 | 9 53 | 16 24 | 4 45 | 14 16 | 1 10 | 24 31 | 2 31 | 24 58 | 1 15 | 21 41 | 0 30 | 16 21 | 1 37 | 12 44 | 0 24 | 20 0 | 1 25 | 10 59 | 8 29 | 23 7 | 23 4 | 23 24 | | | n.a. |
| T 22 | 10 15 | 20 15 | 4 16 | 14 53 | 1 16 | 24 44 | 2 32 | 25 0 | 1 18 | 21 40 | 0 30 | 16 23 | 1 37 | 12 43 | 0 24 | 20 0 | 1 25 | 10 59 | 8 29 | 23 9 | 23 4 | 23 23 | | | n.a. |
| W23 | 10 37 | 23 4 | 3 36 | 15 29 | 1 22 | 24 55 | 2 34 | 25 2 | 1 20 | 21 40 | 0 30 | 16 25 | 1 37 | 12 42 | 0 24 | 20 0 | 1 25 | 10 59 | 8 29 | 23 9 | 23 4 | 23 21 | | | n.a. |
| T 24 | 10 59 | 24 44 | 2 46 | 16 4 | 1 27 | 25 6 | 2 35 | 25 4 | 1 22 | 21 39 | 0 29 | 16 26 | 1 37 | 12 41 | 0 24 | 20 0 | 1 25 | 10 59 | 8 29 | 23 10 | 23 4 | 23 20 | | | n.a. |
| F 25 | 11 21 | 25 12 | 1 49 | 16 39 | 1 33 | 25 17 | 2 37 | 25 7 | 1 24 | 21 38 | 0 29 | 16 28 | 1 36 | 12 41 | 0 24 | 19 59 | 1 25 | 10 58 | 8 29 | 23 11 | 23 5 | 23 18 | | | n.a. |
| S 26 | 11 43 | 24 29 | 0 48 | 17 13 | 1 38 | 25 27 | 2 38 | 25 9 | 1 27 | 21 38 | 0 29 | 16 30 | 1 36 | 12 40 | 0 24 | 19 59 | 1 26 | 10 58 | 8 29 | 23 11 | 23 5 | 23 17 | | | n.a. |
| S 27 | 12 4 | 22 40 | 0s15 | 17 45 | 1 43 | 25 36 | 2 39 | 25 11 | 1 29 | 21 37 | 0 29 | 16 32 | 1 36 | 12 39 | 0 24 | 19 59 | 1 26 | 10 58 | 8 29 | 23 11 | 23 5 | 23 15 | | | n.a. |
| M28 | 12 26 | 19 52 | 1 17 | 18 17 | 1 48 | 25 44 | 2 41 | 25 14 | 1 32 | 21 36 | 0 29 | 16 34 | 1 36 | 12 38 | 0 24 | 19 59 | 1 26 | 10 58 | 8 29 | 23 11 | 23 6 | 23 14 | | | n.a. |
| T 29 | 12 47 | 16 14 | 2 16 | 18 48 | 1 52 | 25 51 | 2 42 | 25 16 | 1 34 | 21 36 | 0 29 | 16 36 | 1 36 | 12 37 | 0 24 | 19 58 | 1 26 | 10 57 | 8 29 | 23 11 | 23 6 | 23 12 | | | n.a. |
| W30 | 13 7 | 11 55 | 3 10 | 19 19 | 1 56 | 25 58 | 2 43 | 25 19 | 1 37 | 21 35 | 0 29 | 16 38 | 1 36 | 12 36 | 0 24 | 19 58 | 1 26 | 10 57 | 8 29 | 23 11 | 23 6 | 23 11 | | | n.a. |
| T 31 | 13s28 | 7n 1 | 3s56 | 19s48 | 2s 0 | 26s 5 | 2s43 | 25n21 | 1n39 | 21n34 | 0s29 | 16s40 | 1n36 | 12n35 | 0s24 | 19n58 | 1s26 | 10n57 | 8s29 | 23s11 | 23s 7 | 23n 9 | | | n.a. |

Julian Day Number = 1693937.5, Delta T = 03h09m02s
Ecliptic obliquity = 23°42'18, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°06'12, Lahiri = - 4°59'11 Julian Calendar 1 Oct. 76 BCE == Greg. Calendar 29 Sept. 076 BCE

The year -75 astronomical counting style corresponds to year 076 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 76 BCE
# geocentric

## NOVEMBER 76 BCE (-75) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 2 29 47 | 6♏25'07 | 15♍ 9 | 21♏14 | 21♐39 | 1♋14 | 8°R55 | 21♏ 6 | 3°R53 | 4°R57 | 24°R46 | 11°R34 | 12♑26 | 12♋22 | n.a. | F 1 |
| S 2 | 2 33 44 | 7°26'06 | 28°12 | 22°43 | 22°47 | 1°17 | 8♊49 | 21°13 | 3♉51 | 4♊56 | 24♉45 | 11♑26 | 12°23 | 12°28 | n.a. | S 2 |
| S 3 | 2 37 40 | 8°27'06 | 11♎38 | 24°12 | 23°56 | 1°19 | 8°43 | 21°20 | 3°48 | 4°54 | 24°44 | 11°15 | 12°20 | 12°35 | n.a. | S 3 |
| M 4 | 2 41 37 | 9°28'08 | 25°29 | 25°41 | 25° 4 | 1°20 | 8°37 | 21°27 | 3°46 | 4°53 | 24°43 | 11° 5 | 12°17 | 12°42 | n.a. | M 4 |
| T 5 | 2 45 33 | 10°29'10 | 9♏39 | 27° 9 | 26°12 | 1°R21 | 8°31 | 21°34 | 3°43 | 4°51 | 24°42 | 10°54 | 12°14 | 12°48 | n.a. | T 5 |
| W 6 | 2 49 30 | 11°30'14 | 24° 5 | 28°36 | 27°19 | 1°20 | 8°24 | 21°41 | 3°41 | 4°50 | 24°41 | 10°45 | 12°11 | 12°55 | n.a. | W 6 |
| T 7 | 2 53 26 | 12°31'19 | 8♐39 | 0♐ 3 | 28°27 | 1°19 | 8°18 | 21°48 | 3°38 | 4°48 | 24°40 | 10°39 | 12° 7 | 13° 2 | n.a. | T 7 |
| F 8 | 2 57 23 | 13°32'24 | 23°14 | 1°28 | 29°34 | 1°17 | 8°11 | 21°55 | 3°36 | 4°47 | 24°39 | 10°35 | 12° 4 | 13° 8 | n.a. | F 8 |
| S 9 | 3 1 19 | 14°33'31 | 7♑45 | 2°53 | 0♑42 | 1°14 | 8° 4 | 22° 2 | 3°33 | 4°45 | 24°37 | 10°D34 | 12° 1 | 13°15 | n.a. | S 9 |
| S 10 | 3 5 16 | 15°34'37 | 22° 8 | 4°16 | 1°49 | 1°10 | 7°57 | 22° 9 | 3°31 | 4°44 | 24°36 | 10°34 | 11°58 | 13°22 | n.a. | S 10 |
| M11 | 3 9 13 | 16°35'45 | 6♒19 | 5°38 | 2°55 | 1° 6 | 7°50 | 22°16 | 3°28 | 4°42 | 24°35 | 10°35 | 11°55 | 13°28 | n.a. | M11 |
| T 12 | 3 13 9 | 17°36'52 | 20°18 | 6°58 | 4° 2 | 1° 0 | 7°43 | 22°23 | 3°26 | 4°40 | 24°34 | 10°R35 | 11°51 | 13°35 | n.a. | T 12 |
| W13 | 3 17 6 | 18°38'01 | 4♓ 5 | 8°16 | 5° 8 | 0°54 | 7°35 | 22°30 | 3°23 | 4°39 | 24°33 | 10°34 | 11°48 | 13°42 | n.a. | W13 |
| T 14 | 3 21 2 | 19°39'09 | 17°39 | 9°32 | 6°15 | 0°47 | 7°28 | 22°37 | 3°21 | 4°37 | 24°32 | 10°31 | 11°45 | 13°48 | n.a. | T 14 |
| F 15 | 3 24 59 | 20°40'18 | 1♈ 1 | 10°45 | 7°21 | 0°39 | 7°21 | 22°44 | 3°19 | 4°36 | 24°30 | 10°25 | 11°42 | 13°55 | n.a. | F 15 |
| S 16 | 3 28 55 | 21°41'28 | 14°10 | 11°55 | 8°26 | 0°31 | 7°13 | 22°51 | 3°16 | 4°34 | 24°29 | 10°17 | 11°39 | 14° 1 | n.a. | S 16 |
| S 17 | 3 32 52 | 22°42'37 | 27° 8 | 13° 1 | 9°32 | 0°21 | 7° 5 | 22°58 | 3°14 | 4°32 | 24°28 | 10° 9 | 11°36 | 14° 8 | n.a. | S 17 |
| M18 | 3 36 49 | 23°43'48 | 9♉53 | 14° 3 | 10°37 | 0°11 | 6°58 | 23° 5 | 3°12 | 4°31 | 24°27 | 10° 0 | 11°32 | 14°15 | n.a. | M18 |
| T 19 | 3 40 45 | 24°44'59 | 22°25 | 15° 0 | 11°42 | 29♊59 | 6°50 | 23°12 | 3° 9 | 4°29 | 24°26 | 9°51 | 11°29 | 14°21 | n.a. | T 19 |
| W20 | 3 44 42 | 25°46'10 | 4♊46 | 15°51 | 12°46 | 29°48 | 6°42 | 23°19 | 3° 7 | 4°27 | 24°25 | 9°44 | 11°26 | 14°28 | n.a. | W20 |
| T 21 | 3 48 38 | 26°47'22 | 16°54 | 16°36 | 13°51 | 29°35 | 6°34 | 23°26 | 3° 5 | 4°26 | 24°23 | 9°40 | 11°23 | 14°35 | n.a. | T 21 |
| F 22 | 3 52 35 | 27°48'34 | 28°53 | 17°13 | 14°55 | 29°21 | 6°26 | 23°33 | 3° 3 | 4°24 | 24°22 | 9°37 | 11°20 | 14°41 | n.a. | F 22 |
| S 23 | 3 56 31 | 28°49'47 | 10♋44 | 17°43 | 15°59 | 29° 7 | 6°18 | 23°40 | 3° 0 | 4°22 | 24°21 | 9°D36 | 11°17 | 14°48 | n.a. | S 23 |
| S 24 | 4 0 28 | 29°51'01 | 22°31 | 18° 3 | 17° 2 | 28°52 | 6°10 | 23°47 | 2°58 | 4°21 | 24°20 | 9°37 | 11°13 | 14°55 | n.a. | S 24 |
| M25 | 4 4 24 | 0♐52'15 | 4♌18 | 18°R14 | 18° 5 | 28°36 | 6° 2 | 23°54 | 2°56 | 4°19 | 24°19 | 9°39 | 11°10 | 15° 1 | n.a. | M25 |
| T 26 | 4 8 21 | 1°53'29 | 16° 9 | 18°13 | 19° 8 | 28°19 | 5°54 | 24° 1 | 2°54 | 4°17 | 24°17 | 9°40 | 11° 7 | 15° 8 | n.a. | T 26 |
| W27 | 4 12 18 | 2°54'44 | 28°10 | 18° 2 | 20°10 | 28° 2 | 5°46 | 24° 8 | 2°52 | 4°15 | 24°16 | 9°R42 | 11° 4 | 15°15 | n.a. | W27 |
| T 28 | 4 16 14 | 3°55'59 | 10♍26 | 17°38 | 21°12 | 27°44 | 5°38 | 24°15 | 2°50 | 4°14 | 24°15 | 9°41 | 11° 1 | 15°21 | n.a. | T 28 |
| F 29 | 4 20 11 | 4°57'15 | 23° 1 | 17° 3 | 22°14 | 27°25 | 5°30 | 24°22 | 2°48 | 4°12 | 24°14 | 9°40 | 10°57 | 15°28 | n.a. | F 29 |
| S 30 | 4 24 7 | 5♐58'31 | 6♎ 0 | 16♐17 | 23♑15 | 27♊ 6 | 5♊21 | 24♏29 | 2♉46 | 4♊10 | 24♉13 | 9♑37 | 10♑54 | 15♋34 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 13s49 | 1n44 | 4s33 | 20s16 | 2s 4 | 26s10 | 2s44 | 25n24 | 1n42 | 21n33 | 0s29 | 16s42 | 1n36 | 12n35 | 0s24 | 19n57 | 1s26 | 10n56 | 8s29 | 23s12 | 23s 7 | 23n 8 | | n.a. |
| S 2 | 14 9 | 3s47 | 4 56 | 20 43 | 2 8 | 26 15 | 2 45 | 25 26 | 1 44 | 21 33 | 0 29 | 16 44 | 1 36 | 12 34 | 0 24 | 19 57 | 1 26 | 10 56 | 8 29 | 23 12 | 23 7 | 23 6 | | n.a. |
| S 3 | 14 29 | 9 18 | 5 4 | 21 8 | 2 11 | 26 19 | 2 45 | 25 29 | 1 47 | 21 32 | 0 29 | 16 45 | 1 36 | 12 33 | 0 24 | 19 57 | 1 26 | 10 56 | 8 29 | 23 13 | 23 8 | 23 5 | | n.a. |
| M 4 | 14 48 | 14 31 | 4 54 | 21 33 | 2 13 | 26 22 | 2 45 | 25 31 | 1 49 | 21 31 | 0 29 | 16 47 | 1 36 | 12 32 | 0 24 | 19 57 | 1 26 | 10 56 | 8 29 | 23 14 | 23 8 | 23 3 | | n.a. |
| T 5 | 15 8 | 19 5 | 4 27 | 21 56 | 2 16 | 26 25 | 2 46 | 25 34 | 1 52 | 21 30 | 0 28 | 16 49 | 1 35 | 12 31 | 0 24 | 19 56 | 1 26 | 10 55 | 8 29 | 23 15 | 23 8 | 23 2 | | n.a. |
| W 6 | 15 27 | 22 35 | 3 42 | 22 18 | 2 18 | 26 26 | 2 46 | 25 36 | 1 55 | 21 29 | 0 28 | 16 51 | 1 35 | 12 30 | 0 24 | 19 56 | 1 26 | 10 55 | 8 29 | 23 16 | 23 8 | 23 0 | | n.a. |
| T 7 | 15 46 | 24 40 | 2 42 | 22 39 | 2 19 | 26 28 | 2 46 | 25 39 | 1 57 | 21 28 | 0 28 | 16 53 | 1 35 | 12 29 | 0 24 | 19 56 | 1 26 | 10 55 | 8 29 | 23 16 | 23 9 | 22 59 | | n.a. |
| F 8 | 16 5 | 25 3 | 1 32 | 22 58 | 2 20 | 26 28 | 2 46 | 25 42 | 2 0 | 21 27 | 0 28 | 16 55 | 1 35 | 12 29 | 0 24 | 19 55 | 1 26 | 10 55 | 8 29 | 23 17 | 23 9 | 22 57 | | n.a. |
| S 9 | 16 23 | 23 44 | 0 15 | 23 16 | 2 21 | 26 28 | 2 45 | 25 45 | 2 3 | 21 26 | 0 28 | 16 57 | 1 35 | 12 28 | 0 24 | 19 55 | 1 26 | 10 54 | 8 29 | 23 17 | 23 9 | 22 56 | | n.a. |
| S 10 | 16 41 | 20 51 | 1n 2 | 23 32 | 2 21 | 26 27 | 2 45 | 25 47 | 2 5 | 21 25 | 0 28 | 16 59 | 1 35 | 12 27 | 0 24 | 19 55 | 1 26 | 10 54 | 8 29 | 23 17 | 23 10 | 22 54 | | n.a. |
| M11 | 16 59 | 16 44 | 2 14 | 23 47 | 2 20 | 26 25 | 2 44 | 25 50 | 2 8 | 21 24 | 0 28 | 17 1 | 1 35 | 12 26 | 0 24 | 19 55 | 1 26 | 10 54 | 8 29 | 23 17 | 23 10 | 22 52 | | n.a. |
| T 12 | 17 16 | 11 46 | 3 17 | 24 0 | 2 19 | 26 22 | 2 44 | 25 53 | 2 11 | 21 23 | 0 28 | 17 2 | 1 35 | 12 25 | 0 24 | 19 54 | 1 26 | 10 53 | 8 29 | 23 17 | 23 10 | 22 51 | | n.a. |
| W13 | 17 34 | 6 17 | 4 8 | 24 11 | 2 17 | 26 19 | 2 43 | 25 56 | 2 14 | 21 22 | 0 28 | 17 4 | 1 35 | 12 24 | 0 24 | 19 54 | 1 26 | 10 53 | 8 29 | 23 17 | 23 10 | 22 49 | | n.a. |
| T 14 | 17 51 | 0 36 | 4 43 | 24 20 | 2 14 | 26 15 | 2 42 | 25 58 | 2 16 | 21 21 | 0 28 | 17 6 | 1 35 | 12 24 | 0 24 | 19 54 | 1 26 | 10 53 | 8 29 | 23 17 | 23 11 | 22 48 | | n.a. |
| F 15 | 18 7 | 5n 2 | 5 3 | 24 28 | 2 11 | 26 11 | 2 41 | 26 1 | 2 19 | 21 20 | 0 27 | 17 8 | 1 35 | 12 23 | 0 24 | 19 53 | 1 26 | 10 53 | 8 29 | 23 17 | 23 11 | 22 46 | | n.a. |
| S 16 | 18 23 | 10 21 | 5 7 | 24 33 | 2 6 | 26 5 | 2 40 | 26 4 | 2 22 | 21 18 | 0 27 | 17 10 | 1 35 | 12 22 | 0 24 | 19 53 | 1 26 | 10 52 | 8 29 | 23 18 | 23 11 | 22 45 | | n.a. |
| S 17 | 18 39 | 15 7 | 4 54 | 24 37 | 2 1 | 25 59 | 2 38 | 26 7 | 2 25 | 21 17 | 0 27 | 17 12 | 1 35 | 12 21 | 0 24 | 19 53 | 1 26 | 10 52 | 8 29 | 23 19 | 23 12 | 22 43 | | n.a. |
| M18 | 18 55 | 19 9 | 4 27 | 24 38 | 1 55 | 25 53 | 2 37 | 26 10 | 2 27 | 21 16 | 0 27 | 17 13 | 1 35 | 12 20 | 0 24 | 19 52 | 1 26 | 10 52 | 8 29 | 23 19 | 23 12 | 22 41 | | n.a. |
| T 19 | 19 10 | 22 14 | 3 47 | 24 38 | 1 47 | 25 46 | 2 35 | 26 12 | 2 30 | 21 15 | 0 27 | 17 15 | 1 35 | 12 20 | 0 24 | 19 52 | 1 26 | 10 52 | 8 29 | 23 20 | 23 12 | 22 40 | | n.a. |
| W20 | 19 25 | 24 14 | 2 58 | 24 35 | 1 39 | 25 38 | 2 33 | 26 15 | 2 33 | 21 14 | 0 27 | 17 17 | 1 35 | 12 19 | 0 24 | 19 52 | 1 26 | 10 52 | 8 29 | 23 21 | 23 12 | 22 38 | | n.a. |
| T 21 | 19 39 | 25 3 | 2 0 | 24 30 | 1 29 | 25 29 | 2 31 | 26 18 | 2 36 | 21 13 | 0 27 | 17 19 | 1 34 | 12 18 | 0 24 | 19 51 | 1 26 | 10 51 | 8 28 | 23 21 | 23 13 | 22 37 | | n.a. |
| F 22 | 19 53 | 24 40 | 0 58 | 24 23 | 1 18 | 25 20 | 2 29 | 26 21 | 2 38 | 21 11 | 0 27 | 17 21 | 1 34 | 12 17 | 0 24 | 19 51 | 1 26 | 10 51 | 8 28 | 23 21 | 23 13 | 22 35 | | n.a. |
| S 23 | 20 7 | 23 10 | 0s 6 | 24 13 | 1 6 | 25 10 | 2 27 | 26 23 | 2 41 | 21 10 | 0 26 | 17 23 | 1 34 | 12 17 | 0 24 | 19 51 | 1 26 | 10 51 | 8 28 | 23 21 | 23 13 | 22 33 | | n.a. |
| S 24 | 20 21 | 20 39 | 1 10 | 24 1 | 0 52 | 25 0 | 2 24 | 26 26 | 2 44 | 21 9 | 0 26 | 17 24 | 1 34 | 12 16 | 0 24 | 19 51 | 1 26 | 10 51 | 8 28 | 23 21 | 23 13 | 22 32 | | n.a. |
| M25 | 20 34 | 17 17 | 2 11 | 23 47 | 0 37 | 24 49 | 2 22 | 26 28 | 2 46 | 21 7 | 0 26 | 17 26 | 1 34 | 12 15 | 0 24 | 19 50 | 1 26 | 10 50 | 8 28 | 23 21 | 23 14 | 22 30 | | n.a. |
| T 26 | 20 46 | 13 13 | 3 6 | 23 31 | 0 21 | 24 37 | 2 19 | 26 31 | 2 49 | 21 6 | 0 26 | 17 28 | 1 34 | 12 14 | 0 24 | 19 50 | 1 26 | 10 50 | 8 28 | 23 21 | 23 14 | 22 29 | | n.a. |
| W27 | 20 58 | 8 35 | 3 54 | 23 13 | 0 3 | 24 25 | 2 16 | 26 33 | 2 52 | 21 5 | 0 26 | 17 30 | 1 34 | 12 14 | 0 24 | 19 50 | 1 26 | 10 50 | 8 28 | 23 21 | 23 14 | 22 27 | | n.a. |
| T 28 | 21 10 | 3 32 | 4 33 | 22 52 | 0n15 | 24 12 | 2 13 | 26 35 | 2 54 | 21 4 | 0 26 | 17 31 | 1 34 | 12 13 | 0 24 | 19 49 | 1 26 | 10 50 | 8 28 | 23 21 | 23 15 | 22 25 | | n.a. |
| F 29 | 21 22 | 1s47 | 5 0 | 22 29 | 0 35 | 23 59 | 2 10 | 26 37 | 2 57 | 21 2 | 0 26 | 17 33 | 1 34 | 12 12 | 0 24 | 19 49 | 1 26 | 10 50 | 8 28 | 23 21 | 23 15 | 22 24 | | n.a. |
| S 30 | 21s33 | 7s10 | 5s12 | 22s 5 | 0n55 | 23s45 | 2s 6 | 26n39 | 2n59 | 21n 1 | 0s25 | 17s35 | 1n34 | 12n12 | 0s24 | 19n49 | 1s26 | 10n49 | 8s28 | 23s21 | 23s15 | 22n22 | | n.a. |

Julian Day Number = 1693968.5, Delta T = 03h09m01s
Ecliptic obliquity = 23°42'17, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°06'08, Lahiri = - 4°59'07 Julian Calendar 1 Nov. 76 BCE == Greg. Calendar 30 Oct. 076 BCE

The year -75 astronomical counting style corresponds to year 076 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 76 BCE
# geocentric

## DECEMBER 76 BCE (-75) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 4 28 4 | 6♐59'47 | 19♎26 | 15°R19 | 24♑16 | 26°R46 | 5°R13 | 24♏36 | 2°R44 | 4°R 9 | 24°R12 | 9°R32 | 10♑51 | 15♋41 | n.a. | S 1 |
| M 2 | 4 32 0 | 8° 1'04 | 3♏19 | 14♐13 | 25°17 | 26♊26 | 5♊ 5 | 24°43 | 2♉42 | 4♊ 7 | 24♉11 | 9♑27 | 10°48 | 15°48 | n.a. | M 2 |
| T 3 | 4 35 57 | 9° 2'20 | 17°38 | 12°59 | 26°17 | 26° 5 | 4°57 | 24°50 | 2°40 | 4° 5 | 24° 9 | 9°22 | 10°45 | 15°54 | n.a. | T 3 |
| W 4 | 4 39 53 | 10° 3'37 | 2♐18 | 11°41 | 27°16 | 25°43 | 4°49 | 24°57 | 2°38 | 4° 4 | 24° 8 | 9°18 | 10°42 | 16° 1 | n.a. | W 4 |
| T 5 | 4 43 50 | 11° 4'54 | 17°12 | 10°20 | 28°16 | 25°21 | 4°41 | 25° 4 | 2°36 | 4° 2 | 24° 7 | 9°15 | 10°38 | 16° 8 | n.a. | T 5 |
| F 6 | 4 47 47 | 12° 6'11 | 2♑12 | 8°59 | 29°14 | 24°59 | 4°33 | 25°11 | 2°34 | 4° 0 | 24° 6 | 9°D14 | 10°35 | 16°14 | n.a. | F 6 |
| S 7 | 4 51 43 | 13° 7'28 | 17°10 | 7°41 | 0♒12 | 24°36 | 4°25 | 25°18 | 2°33 | 3°58 | 24° 5 | 9°14 | 10°32 | 16°21 | n.a. | S 7 |
| S 8 | 4 55 40 | 14° 8'44 | 1♒56 | 6°29 | 1°10 | 24°13 | 4°17 | 25°24 | 2°31 | 3°57 | 24° 4 | 9°15 | 10°29 | 16°28 | n.a. | S 8 |
| M 9 | 4 59 36 | 15° 9'59 | 16°27 | 5°23 | 2° 7 | 23°49 | 4° 9 | 25°31 | 2°29 | 3°55 | 24° 3 | 9°16 | 10°26 | 16°34 | n.a. | M 9 |
| T 10 | 5 3 33 | 16°11'14 | 0♓39 | 4°26 | 3° 4 | 23°26 | 4° 1 | 25°38 | 2°28 | 3°53 | 24° 2 | 9°18 | 10°23 | 16°41 | n.a. | T 10 |
| W11 | 5 7 29 | 17°12'28 | 14°29 | 3°38 | 4° 0 | 23° 2 | 3°53 | 25°45 | 2°26 | 3°52 | 24° 1 | 9°R18 | 10°19 | 16°48 | n.a. | W11 |
| T 12 | 5 11 26 | 18°13'41 | 27°59 | 3° 0 | 4°55 | 22°38 | 3°46 | 25°51 | 2°24 | 3°50 | 23°59 | 9°18 | 10°16 | 16°54 | n.a. | T 12 |
| F 13 | 5 15 23 | 19°14'54 | 11♈11 | 2°31 | 5°50 | 22°14 | 3°38 | 25°58 | 2°23 | 3°49 | 23°58 | 9°17 | 10°13 | 17° 1 | n.a. | F 13 |
| S 14 | 5 19 19 | 20°16'06 | 24° 5 | 2°13 | 6°44 | 21°50 | 3°31 | 26° 5 | 2°21 | 3°47 | 23°57 | 9°14 | 10°10 | 17° 8 | n.a. | S 14 |
| S 15 | 5 23 16 | 21°17'17 | 6♉44 | 2° 4 | 7°37 | 21°26 | 3°23 | 26°11 | 2°20 | 3°45 | 23°56 | 9°12 | 10° 7 | 17°14 | n.a. | S 15 |
| M16 | 5 27 12 | 22°18'28 | 19°10 | 2°D 3 | 8°30 | 21° 2 | 3°16 | 26°18 | 2°19 | 3°44 | 23°55 | 9° 9 | 10° 3 | 17°21 | n.a. | M16 |
| T 17 | 5 31 9 | 23°19'38 | 1♊25 | 2°11 | 9°22 | 20°38 | 3° 9 | 26°24 | 2°17 | 3°42 | 23°54 | 9° 6 | 10° 0 | 17°27 | n.a. | T 17 |
| W18 | 5 35 5 | 24°20'47 | 13°31 | 2°27 | 10°13 | 20°14 | 3° 1 | 26°31 | 2°16 | 3°41 | 23°53 | 9° 4 | 9°57 | 17°34 | n.a. | W18 |
| T 19 | 5 39 2 | 25°21'55 | 25°29 | 2°50 | 11° 3 | 19°51 | 2°54 | 26°37 | 2°15 | 3°39 | 23°52 | 9° 3 | 9°54 | 17°41 | n.a. | T 19 |
| F 20 | 5 42 58 | 26°23'03 | 7♋21 | 3°18 | 11°53 | 19°27 | 2°48 | 26°44 | 2°14 | 3°37 | 23°51 | 9°D 3 | 9°51 | 17°47 | n.a. | F 20 |
| S 21 | 5 46 55 | 27°24'10 | 19°10 | 3°53 | 12°41 | 19° 4 | 2°41 | 26°50 | 2°12 | 3°36 | 23°50 | 9° 3 | 9°48 | 17°54 | n.a. | S 21 |
| S 22 | 5 50 52 | 28°25'17 | 0♌57 | 4°33 | 13°29 | 18°41 | 2°34 | 26°57 | 2°11 | 3°34 | 23°49 | 9° 4 | 9°44 | 18° 1 | n.a. | S 22 |
| M23 | 5 54 48 | 29°26'22 | 12°46 | 5°18 | 14°16 | 18°19 | 2°28 | 27° 3 | 2°10 | 3°33 | 23°48 | 9° 5 | 9°41 | 18° 7 | n.a. | M23 |
| T 24 | 5 58 45 | 0♑27'27 | 24°39 | 6° 6 | 15° 1 | 17°57 | 2°21 | 27° 9 | 2° 9 | 3°31 | 23°48 | 9° 6 | 9°38 | 18°14 | n.a. | T 24 |
| W25 | 6 2 41 | 1°28'32 | 6♍41 | 6°59 | 15°46 | 17°35 | 2°15 | 27°16 | 2° 8 | 3°30 | 23°47 | 9° 7 | 9°35 | 18°21 | n.a. | W25 |
| T 26 | 6 6 38 | 2°29'35 | 18°56 | 7°55 | 16°30 | 17°14 | 2° 9 | 27°22 | 2° 7 | 3°28 | 23°46 | 9° 7 | 9°32 | 18°27 | n.a. | T 26 |
| F 27 | 6 10 34 | 3°30'38 | 1♎27 | 8°54 | 17°12 | 16°54 | 2° 3 | 27°28 | 2° 7 | 3°27 | 23°45 | 9°R 7 | 9°29 | 18°34 | n.a. | F 27 |
| S 28 | 6 14 31 | 4°31'40 | 14°20 | 9°56 | 17°54 | 16°34 | 1°57 | 27°34 | 2° 6 | 3°26 | 23°44 | 9° 7 | 9°25 | 18°41 | n.a. | S 28 |
| S 29 | 6 18 27 | 5°32'42 | 27°37 | 11° 1 | 18°34 | 16°14 | 1°51 | 27°40 | 2° 5 | 3°24 | 23°43 | 9° 7 | 9°22 | 18°47 | n.a. | S 29 |
| M30 | 6 22 24 | 6°33'42 | 11♏21 | 12° 8 | 19°13 | 15°55 | 1°46 | 27°46 | 2° 4 | 3°23 | 23°42 | 9° 7 | 9°19 | 18°54 | n.a. | M30 |
| T 31 | 6 26 21 | 7♑34'42 | 25♏32 | 13♐17 | 19♒51 | 15♊37 | 1♊40 | 27♏52 | 2♉ 4 | 3♊21 | 23♉42 | 9♑ 6 | 9♑16 | 19♋ 1 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| S 1 | 21 s43 | 12 s26 | 5 s 8 | 21 s39 | 1n15 | 23 s30 | 2 s 2 | 26n41 | 3n 2 | 21n 0 | 0 s25 | 17 s37 | 1n34 | 12n11 | 0 s24 | 19n48 | 1 s26 | 10n49 | 8 s28 | 23 s21 | 23 s15 | 22n20 | | n.a. | S 1 |
| M 2 | 21 53 | 17 14 | 4 46 | 21 12 | 1 35 | 23 16 | 1 59 | 26 43 | 3 4 | 20 58 | 0 25 | 17 38 | 1 34 | 12 10 | 0 24 | 19 48 | 1 26 | 10 49 | 8 28 | 23 22 | 23 16 | 22 19 | | n.a. | M 2 |
| T 3 | 22 3 | 21 13 | 4 6 | 20 44 | 1 53 | 23 0 | 1 55 | 26 45 | 3 6 | 20 57 | 0 25 | 17 40 | 1 34 | 12 10 | 0 24 | 19 48 | 1 26 | 10 49 | 8 28 | 23 22 | 23 16 | 22 17 | | n.a. | T 3 |
| W 4 | 22 12 | 23 56 | 3 9 | 20 16 | 2 11 | 22 44 | 1 50 | 26 47 | 3 9 | 20 56 | 0 25 | 17 42 | 1 34 | 12 9 | 0 24 | 19 47 | 1 26 | 10 49 | 8 28 | 23 22 | 23 16 | 22 15 | | n.a. | W 4 |
| T 5 | 22 21 | 25 2 | 1 58 | 19 49 | 2 27 | 22 28 | 1 46 | 26 48 | 3 11 | 20 54 | 0 25 | 17 43 | 1 34 | 12 9 | 0 24 | 19 47 | 1 26 | 10 49 | 8 27 | 23 23 | 23 16 | 22 14 | | n.a. | T 5 |
| F 6 | 22 30 | 24 20 | 0 39 | 19 23 | 2 41 | 22 11 | 1 41 | 26 49 | 3 13 | 20 53 | 0 24 | 17 45 | 1 34 | 12 8 | 0 24 | 19 47 | 1 26 | 10 48 | 8 27 | 23 23 | 23 17 | 22 12 | | n.a. | F 6 |
| S 7 | 22 38 | 21 52 | 0n44 | 18 59 | 2 53 | 21 54 | 1 37 | 26 50 | 3 15 | 20 52 | 0 24 | 17 47 | 1 34 | 12 7 | 0 24 | 19 47 | 1 26 | 10 48 | 8 27 | 23 23 | 23 17 | 22 10 | | n.a. | S 7 |
| S 8 | 22 45 | 17 58 | 2 2 | 18 38 | 3 2 | 21 36 | 1 32 | 26 51 | 3 17 | 20 50 | 0 24 | 17 48 | 1 34 | 12 7 | 0 23 | 19 46 | 1 26 | 10 48 | 8 27 | 23 23 | 23 17 | 22 9 | | n.a. | S 8 |
| M 9 | 22 52 | 13 3 | 3 11 | 18 20 | 3 9 | 21 19 | 1 26 | 26 52 | 3 19 | 20 49 | 0 24 | 17 50 | 1 34 | 12 6 | 0 23 | 19 46 | 1 26 | 10 48 | 8 27 | 23 23 | 23 17 | 22 7 | | n.a. | M 9 |
| T 10 | 22 59 | 7 31 | 4 7 | 18 5 | 3 14 | 21 0 | 1 21 | 26 53 | 3 21 | 20 48 | 0 24 | 17 52 | 1 34 | 12 6 | 0 23 | 19 46 | 1 26 | 10 48 | 8 27 | 23 22 | 23 18 | 22 5 | | n.a. | T 10 |
| W11 | 23 5 | 1 46 | 4 47 | 17 54 | 3 16 | 20 41 | 1 16 | 26 53 | 3 23 | 20 47 | 0 24 | 17 53 | 1 34 | 12 5 | 0 23 | 19 45 | 1 26 | 10 48 | 8 27 | 23 22 | 23 18 | 22 4 | | n.a. | W11 |
| T 12 | 23 11 | 3n55 | 5 10 | 17 46 | 3 17 | 20 22 | 1 10 | 26 54 | 3 24 | 20 45 | 0 23 | 17 55 | 1 34 | 12 5 | 0 23 | 19 45 | 1 25 | 10 47 | 8 27 | 23 22 | 23 18 | 22 2 | | n.a. | T 12 |
| F 13 | 23 16 | 9 18 | 5 15 | 17 42 | 3 15 | 20 3 | 1 4 | 26 54 | 3 26 | 20 44 | 0 23 | 17 56 | 1 34 | 12 4 | 0 23 | 19 45 | 1 25 | 10 47 | 8 26 | 23 23 | 23 18 | 22 0 | | n.a. | F 13 |
| S 14 | 23 21 | 14 9 | 5 5 | 17 42 | 3 12 | 19 43 | 0 58 | 26 54 | 3 27 | 20 43 | 0 23 | 17 58 | 1 34 | 12 4 | 0 23 | 19 45 | 1 25 | 10 47 | 8 26 | 23 23 | 23 19 | 21 58 | | n.a. | S 14 |
| S 15 | 23 25 | 18 19 | 4 40 | 17 44 | 3 8 | 19 24 | 0 51 | 26 54 | 3 29 | 20 41 | 0 23 | 17 59 | 1 34 | 12 3 | 0 23 | 19 44 | 1 25 | 10 47 | 8 26 | 23 23 | 23 19 | 21 57 | | n.a. | S 15 |
| M16 | 23 29 | 21 35 | 4 2 | 17 49 | 3 2 | 19 3 | 0 45 | 26 54 | 3 30 | 20 40 | 0 23 | 18 1 | 1 34 | 12 3 | 0 23 | 19 44 | 1 25 | 10 47 | 8 26 | 23 23 | 23 19 | 21 55 | | n.a. | M16 |
| T 17 | 23 32 | 23 50 | 3 14 | 17 57 | 2 56 | 18 43 | 0 38 | 26 53 | 3 31 | 20 39 | 0 23 | 18 3 | 1 34 | 12 2 | 0 23 | 19 44 | 1 25 | 10 47 | 8 26 | 23 23 | 23 19 | 21 53 | | n.a. | T 17 |
| W18 | 23 35 | 24 56 | 2 17 | 18 7 | 2 49 | 18 22 | 0 31 | 26 52 | 3 33 | 20 38 | 0 22 | 18 4 | 1 34 | 12 2 | 0 23 | 19 43 | 1 25 | 10 47 | 8 26 | 23 23 | 23 20 | 21 51 | | n.a. | W18 |
| T 19 | 23 37 | 24 52 | 1 15 | 18 19 | 2 41 | 18 2 | 0 24 | 26 52 | 3 34 | 20 37 | 0 22 | 18 6 | 1 34 | 12 1 | 0 23 | 19 43 | 1 25 | 10 47 | 8 26 | 23 23 | 23 20 | 21 50 | | n.a. | T 19 |
| F 20 | 23 39 | 23 39 | 0 9 | 18 33 | 2 33 | 17 41 | 0 16 | 26 51 | 3 35 | 20 35 | 0 22 | 18 7 | 1 34 | 12 1 | 0 23 | 19 43 | 1 25 | 10 47 | 8 26 | 23 24 | 23 20 | 21 48 | | n.a. | F 20 |
| S 21 | 23 41 | 21 24 | 0 s56 | 18 48 | 2 24 | 17 20 | 0 9 | 26 50 | 3 36 | 20 34 | 0 22 | 18 8 | 1 34 | 12 1 | 0 23 | 19 43 | 1 25 | 10 47 | 8 25 | 23 24 | 23 20 | 21 46 | | n.a. | S 21 |
| S 22 | 23 42 | 18 14 | 1 59 | 19 4 | 2 15 | 16 58 | 0 1 | 26 49 | 3 36 | 20 33 | 0 22 | 18 10 | 1 34 | 12 0 | 0 23 | 19 42 | 1 25 | 10 46 | 8 25 | 23 23 | 23 21 | 21 44 | | n.a. | S 22 |
| M23 | 23 42 | 14 20 | 2 57 | 19 21 | 2 6 | 16 37 | 0n 7 | 26 47 | 3 37 | 20 32 | 0 21 | 18 11 | 1 34 | 12 0 | 0 23 | 19 42 | 1 25 | 10 46 | 8 25 | 23 23 | 23 21 | 21 43 | | n.a. | M23 |
| T 24 | 23 42 | 9 53 | 3 47 | 19 39 | 1 57 | 16 15 | 0 16 | 26 46 | 3 38 | 20 31 | 0 21 | 18 13 | 1 34 | 12 0 | 0 23 | 19 42 | 1 25 | 10 46 | 8 25 | 23 23 | 23 21 | 21 41 | | n.a. | T 24 |
| W25 | 23 42 | 5 0 | 4 29 | 19 57 | 1 47 | 15 54 | 0 24 | 26 44 | 3 38 | 20 30 | 0 21 | 18 14 | 1 34 | 11 59 | 0 23 | 19 42 | 1 25 | 10 46 | 8 25 | 23 23 | 23 21 | 21 39 | | n.a. | W25 |
| T 26 | 23 41 | 0 s 9 | 4 59 | 20 16 | 1 38 | 15 32 | 0 33 | 26 43 | 3 39 | 20 29 | 0 21 | 18 16 | 1 34 | 11 59 | 0 23 | 19 41 | 1 25 | 10 46 | 8 25 | 23 23 | 23 21 | 21 37 | | n.a. | T 26 |
| F 27 | 23 39 | 5 24 | 5 15 | 20 34 | 1 28 | 15 11 | 0 42 | 26 41 | 3 39 | 20 28 | 0 21 | 18 17 | 1 34 | 11 59 | 0 23 | 19 41 | 1 25 | 10 46 | 8 24 | 23 23 | 23 22 | 21 36 | | n.a. | F 27 |
| S 28 | 23 38 | 10 34 | 5 17 | 20 53 | 1 19 | 14 49 | 0 51 | 26 39 | 3 39 | 20 27 | 0 21 | 18 18 | 1 34 | 11 58 | 0 23 | 19 41 | 1 25 | 10 46 | 8 24 | 23 23 | 23 22 | 21 34 | | n.a. | S 28 |
| S 29 | 23 35 | 15 25 | 5 2 | 21 12 | 1 10 | 14 28 | 1 1 | 26 37 | 3 39 | 20 26 | 0 20 | 18 20 | 1 34 | 11 58 | 0 23 | 19 41 | 1 25 | 10 46 | 8 24 | 23 23 | 23 22 | 21 32 | | n.a. | S 29 |
| M30 | 23 32 | 19 39 | 4 29 | 21 30 | 1 0 | 14 6 | 1 11 | 26 35 | 3 39 | 20 25 | 0 20 | 18 21 | 1 34 | 11 58 | 0 23 | 19 40 | 1 25 | 10 46 | 8 24 | 23 23 | 23 22 | 21 30 | | n.a. | M30 |
| T 31 | 23 s29 | 22 s54 | 3 s40 | 21 s48 | 0n51 | 13 s45 | 1n20 | 26n33 | 3n39 | 20n24 | 0 s20 | 18 s22 | 1n34 | 11n58 | 0 s23 | 19n40 | 1 s25 | 10n46 | 8 s24 | 23 s23 | 23 s23 | 21n28 | | n.a. | T 31 |

Julian Day Number = 1693998.5, Delta T = 03h09m00s
Ecliptic obliquity = 23°42'16, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°06'04, Lahiri = - 4°59'03 Julian Calendar 1 Dec. 76 BCE == Greg. Calendar 29 Nov. 076 BCE

The year -75 astronomical counting style corresponds to year 076 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 75 BCE
# geocentric

## JANUARY 75 BCE (-74) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 6 30 17 | 8♑35'42 | 10♐ 8 | 14♐28 | 20♒28 | 15°R20 | 1°R35 | 27♏58 | 2°R 3 | 3°R20 | 23°R41 | 9°D 6 | 9♑13 | 19♋ 7 | n.a. | W 1 |
| T 2 | 6 34 14 | 9°36'40 | 25° 5 | 15°41 | 21° 3 | 15♊ 3 | 1♊30 | 28° 4 | 2♉ 2 | 3♊19 | 23♉40 | 9♑ 6 | 9° 9 | 19°14 | n.a. | T 2 |
| F 3 | 6 38 10 | 10°37'37 | 10♑15 | 16°56 | 21°36 | 14°47 | 1°25 | 28°10 | 2° 2 | 3°18 | 23°39 | 9°R 6 | 9° 6 | 19°21 | n.a. | F 3 |
| S 4 | 6 42 7 | 11°38'33 | 25°28 | 18°12 | 22° 9 | 14°31 | 1°21 | 28°15 | 2° 1 | 3°16 | 23°38 | 9° 6 | 9° 3 | 19°27 | n.a. | S 4 |
| S 5 | 6 46 3 | 12°39'27 | 10♒35 | 19°30 | 22°39 | 14°16 | 1°16 | 28°21 | 2° 1 | 3°15 | 23°38 | 9° 6 | 9° 0 | 19°34 | n.a. | S 5 |
| M 6 | 6 50 0 | 13°40'20 | 25°27 | 20°49 | 23° 8 | 14° 2 | 1°12 | 28°27 | 2° 1 | 3°14 | 23°37 | 9° 6 | 8°57 | 19°40 | n.a. | M 6 |
| T 7 | 6 53 57 | 14°41'11 | 9♓57 | 22° 9 | 23°35 | 13°49 | 1° 8 | 28°32 | 2° 0 | 3°13 | 23°36 | 9° 5 | 8°54 | 19°47 | n.a. | T 7 |
| W 8 | 6 57 53 | 15°42'01 | 24° 2 | 23°30 | 24° 1 | 13°37 | 1° 4 | 28°38 | 2° 0 | 3°11 | 23°36 | 9° 4 | 8°50 | 19°54 | n.a. | W 8 |
| T 9 | 7 1 50 | 16°42'49 | 7♈40 | 24°53 | 24°25 | 13°25 | 1° 0 | 28°43 | 2° 0 | 3°10 | 23°35 | 9° 4 | 8°47 | 20° 0 | n.a. | T 9 |
| F 10 | 7 5 46 | 17°43'35 | 20°53 | 26°17 | 24°47 | 13°14 | 0°56 | 28°49 | 2° 0 | 3° 9 | 23°34 | 9°D 4 | 8°44 | 20° 7 | n.a. | F 10 |
| S 11 | 7 9 43 | 18°44'20 | 3♉43 | 27°41 | 25° 7 | 13° 4 | 0°53 | 28°54 | 2° 0 | 3° 8 | 23°34 | 9° 4 | 8°41 | 20°14 | n.a. | S 11 |
| S 12 | 7 13 39 | 19°45'03 | 16°13 | 29° 7 | 25°24 | 12°55 | 0°50 | 29° 0 | 2°D 0 | 3° 7 | 23°33 | 9° 5 | 8°38 | 20°20 | n.a. | S 12 |
| M13 | 7 17 36 | 20°45'44 | 28°29 | 0♑34 | 25°40 | 12°47 | 0°47 | 29° 5 | 2° 0 | 3° 6 | 23°33 | 9° 6 | 8°35 | 20°27 | n.a. | M13 |
| T 14 | 7 21 32 | 21°46'23 | 10♊32 | 2° 2 | 25°54 | 12°39 | 0°44 | 29°10 | 2° 0 | 3° 5 | 23°32 | 9° 7 | 8°31 | 20°34 | n.a. | T 14 |
| W15 | 7 25 29 | 22°47'01 | 22°27 | 3°30 | 26° 5 | 12°33 | 0°41 | 29°15 | 2° 0 | 3° 4 | 23°31 | 9° 8 | 8°28 | 20°40 | n.a. | W15 |
| T 16 | 7 29 26 | 23°47'37 | 4♋18 | 5° 0 | 26°15 | 12°27 | 0°39 | 29°20 | 2° 0 | 3° 3 | 23°31 | 9°R 9 | 8°25 | 20°47 | n.a. | T 16 |
| F 17 | 7 33 22 | 24°48'11 | 16° 6 | 6°31 | 26°21 | 12°21 | 0°36 | 29°25 | 2° 0 | 3° 2 | 23°30 | 9° 9 | 8°22 | 20°54 | n.a. | F 17 |
| S 18 | 7 37 19 | 25°48'44 | 27°54 | 8° 2 | 26°26 | 12°17 | 0°34 | 29°30 | 2° 1 | 3° 1 | 23°30 | 9° 8 | 8°19 | 21° 0 | n.a. | S 18 |
| S 19 | 7 41 15 | 26°49'15 | 9♌44 | 9°35 | 26°R28 | 12°13 | 0°33 | 29°35 | 2° 1 | 3° 0 | 23°29 | 9° 6 | 8°15 | 21° 7 | n.a. | S 19 |
| M20 | 7 45 12 | 27°49'44 | 21°38 | 11° 8 | 26°28 | 12°11 | 0°31 | 29°40 | 2° 1 | 2°59 | 23°29 | 9° 3 | 8°12 | 21°14 | n.a. | M20 |
| T 21 | 7 49 8 | 28°50'11 | 3♍38 | 12°42 | 26°25 | 12° 9 | 0°29 | 29°44 | 2° 2 | 2°59 | 23°29 | 9° 0 | 8° 9 | 21°20 | n.a. | T 21 |
| W22 | 7 53 5 | 29°50'37 | 15°47 | 14°18 | 26°19 | 12° 7 | 0°28 | 29°49 | 2° 2 | 2°58 | 23°28 | 8°57 | 8° 6 | 21°27 | n.a. | W22 |
| T 23 | 7 57 1 | 0♒51'02 | 28° 6 | 15°54 | 26°11 | 12°D 7 | 0°27 | 29°53 | 2° 3 | 2°57 | 23°28 | 8°54 | 8° 3 | 21°33 | n.a. | T 23 |
| F 24 | 8 0 58 | 1°51'25 | 10♎40 | 17°31 | 26° 1 | 12° 7 | 0°26 | 29°58 | 2° 3 | 2°56 | 23°28 | 8°51 | 8° 0 | 21°40 | n.a. | F 24 |
| S 25 | 8 4 55 | 2°51'46 | 23°30 | 19° 9 | 25°48 | 12° 8 | 0°26 | 0♐ 2 | 2° 4 | 2°56 | 23°27 | 8°50 | 7°56 | 21°47 | n.a. | S 25 |
| S 26 | 8 8 51 | 3°52'06 | 6♏40 | 20°48 | 25°33 | 12° 9 | 0°25 | 0° 7 | 2° 5 | 2°55 | 23°27 | 8°D49 | 7°53 | 21°53 | n.a. | S 26 |
| M27 | 8 12 48 | 4°52'24 | 20°13 | 22°28 | 25°15 | 12°12 | 0°25 | 0°11 | 2° 6 | 2°54 | 23°27 | 8°50 | 7°50 | 22° 0 | n.a. | M27 |
| T 28 | 8 16 44 | 5°52'41 | 4♐10 | 24° 9 | 24°54 | 12°15 | 0°D25 | 0°15 | 2° 6 | 2°54 | 23°26 | 8°52 | 7°47 | 22° 7 | n.a. | T 28 |
| W29 | 8 20 41 | 6°52'57 | 18°31 | 25°51 | 24°32 | 12°19 | 0°25 | 0°19 | 2° 7 | 2°53 | 23°26 | 8°53 | 7°44 | 22°13 | n.a. | W29 |
| T 30 | 8 24 37 | 7°53'10 | 3♑14 | 27°34 | 24° 7 | 12°23 | 0°25 | 0°23 | 2° 8 | 2°53 | 23°26 | 8°R54 | 7°41 | 22°20 | n.a. | T 30 |
| F 31 | 8 28 34 | 8♒53'22 | 18♑14 | 29♑18 | 23♒40 | 12♊28 | 0♊26 | 0♐27 | 2♉ 9 | 2♊52 | 23♉26 | 8♑54 | 7♑37 | 22♋27 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| W 1 | 23 s25 | 24 s46 | 2 s34 | 22 s 6 | 0n42 | 13 s24 | 1n31 | 26n31 | 3n39 | 20n23 | 0 s20 | 18 s24 | 1n34 | 11n58 | 0 s23 | 19n40 | 1 s25 | 10n46 | 8 s24 | 23 s23 | 23 s23 | 21n27 | | | n.a. |
| T 2 | 23 21 | 24 54 | 1 17 | 22 23 | 0 33 | 13 3 | 1 41 | 26 29 | 3 39 | 20 22 | 0 20 | 18 25 | 1 34 | 11 57 | 0 23 | 19 40 | 1 25 | 10 46 | 8 23 | 23 23 | 23 23 | 21 25 | | | n.a. |
| F 3 | 23 16 | 23 12 | 0n 6 | 22 39 | 0 24 | 12 42 | 1 52 | 26 27 | 3 39 | 20 21 | 0 19 | 18 26 | 1 34 | 11 57 | 0 23 | 19 40 | 1 25 | 10 46 | 8 23 | 23 23 | 23 23 | 21 23 | | | n.a. |
| S 4 | 23 11 | 19 49 | 1 30 | 22 55 | 0 16 | 12 21 | 2 3 | 26 25 | 3 39 | 20 21 | 0 19 | 18 27 | 1 35 | 11 57 | 0 23 | 19 39 | 1 25 | 10 46 | 8 23 | 23 23 | 23 23 | 21 21 | | | n.a. |
| S 5 | 23 6 | 15 6 | 2 46 | 23 10 | 0 7 | 12 1 | 2 14 | 26 23 | 3 38 | 20 20 | 0 19 | 18 29 | 1 35 | 11 57 | 0 23 | 19 39 | 1 25 | 10 46 | 8 23 | 23 23 | 23 24 | 21 19 | | | n.a. |
| M 6 | 23 0 | 9 34 | 3 50 | 23 24 | 0s 1 | 11 41 | 2 25 | 26 21 | 3 38 | 20 19 | 0 19 | 18 30 | 1 35 | 11 57 | 0 23 | 19 39 | 1 25 | 10 46 | 8 23 | 23 23 | 23 24 | 21 18 | | | n.a. |
| T 7 | 22 53 | 3 38 | 4 38 | 23 37 | 0 9 | 11 21 | 2 36 | 26 19 | 3 38 | 20 19 | 0 19 | 18 31 | 1 35 | 11 57 | 0 23 | 19 39 | 1 25 | 10 46 | 8 22 | 23 23 | 23 24 | 21 16 | | | n.a. |
| W 8 | 22 46 | 2n18 | 5 7 | 23 50 | 0 17 | 11 1 | 2 48 | 26 17 | 3 37 | 20 18 | 0 18 | 18 32 | 1 35 | 11 57 | 0 23 | 19 39 | 1 25 | 10 46 | 8 22 | 23 23 | 23 24 | 21 14 | | | n.a. |
| T 9 | 22 39 | 7 56 | 5 18 | 24 1 | 0 25 | 10 42 | 3 0 | 26 14 | 3 36 | 20 17 | 0 18 | 18 33 | 1 35 | 11 57 | 0 23 | 19 38 | 1 25 | 10 46 | 8 22 | 23 23 | 23 25 | 21 12 | | | n.a. |
| F 10 | 22 31 | 13 2 | 5 11 | 24 11 | 0 32 | 10 23 | 3 12 | 26 12 | 3 36 | 20 17 | 0 18 | 18 34 | 1 35 | 11 57 | 0 23 | 19 38 | 1 25 | 10 46 | 8 22 | 23 23 | 23 25 | 21 10 | | | n.a. |
| S 11 | 22 23 | 17 25 | 4 49 | 24 20 | 0 39 | 10 5 | 3 25 | 26 11 | 3 35 | 20 16 | 0 18 | 18 36 | 1 35 | 11 57 | 0 23 | 19 38 | 1 24 | 10 46 | 8 22 | 23 23 | 23 25 | 21 8 | | | n.a. |
| S 12 | 22 14 | 20 55 | 4 14 | 24 28 | 0 46 | 9 47 | 3 37 | 26 9 | 3 34 | 20 16 | 0 18 | 18 37 | 1 35 | 11 57 | 0 23 | 19 38 | 1 24 | 10 46 | 8 21 | 23 23 | 23 25 | 21 7 | | | n.a. |
| M13 | 22 5 | 23 24 | 3 27 | 24 35 | 0 53 | 9 30 | 3 50 | 26 7 | 3 34 | 20 15 | 0 17 | 18 38 | 1 35 | 11 57 | 0 23 | 19 38 | 1 24 | 10 46 | 8 21 | 23 23 | 23 25 | 21 5 | | | n.a. |
| T 14 | 21 55 | 24 47 | 2 32 | 24 41 | 1 0 | 9 13 | 4 3 | 26 5 | 3 33 | 20 15 | 0 17 | 18 39 | 1 35 | 11 57 | 0 23 | 19 38 | 1 24 | 10 46 | 8 21 | 23 23 | 23 26 | 21 3 | | | n.a. |
| W15 | 21 45 | 25 0 | 1 31 | 24 45 | 1 6 | 8 57 | 4 15 | 26 3 | 3 32 | 20 14 | 0 17 | 18 40 | 1 35 | 11 57 | 0 22 | 19 37 | 1 24 | 10 46 | 8 21 | 23 23 | 23 26 | 21 1 | | | n.a. |
| T 16 | 21 35 | 24 5 | 0 27 | 24 48 | 1 12 | 8 42 | 4 29 | 26 1 | 3 31 | 20 14 | 0 17 | 18 41 | 1 35 | 11 57 | 0 22 | 19 37 | 1 24 | 10 46 | 8 21 | 23 23 | 23 26 | 20 59 | | | n.a. |
| F 17 | 21 24 | 22 5 | 0s38 | 24 50 | 1 18 | 8 27 | 4 42 | 26 0 | 3 30 | 20 14 | 0 17 | 18 42 | 1 35 | 11 57 | 0 22 | 19 37 | 1 24 | 10 47 | 8 20 | 23 23 | 23 26 | 20 57 | | | n.a. |
| S 18 | 21 13 | 19 9 | 1 42 | 24 50 | 1 23 | 8 13 | 4 55 | 25 58 | 3 29 | 20 14 | 0 17 | 18 43 | 1 35 | 11 57 | 0 22 | 19 37 | 1 24 | 10 47 | 8 20 | 23 23 | 23 26 | 20 55 | | | n.a. |
| S 19 | 21 1 | 15 25 | 2 41 | 24 49 | 1 28 | 8 0 | 5 8 | 25 57 | 3 28 | 20 13 | 0 16 | 18 44 | 1 35 | 11 57 | 0 22 | 19 37 | 1 24 | 10 47 | 8 20 | 23 23 | 23 27 | 20 54 | | | n.a. |
| M20 | 20 50 | 11 5 | 3 34 | 24 47 | 1 33 | 7 48 | 5 21 | 25 55 | 3 27 | 20 13 | 0 16 | 18 45 | 1 35 | 11 58 | 0 22 | 19 37 | 1 24 | 10 47 | 8 20 | 23 23 | 23 27 | 20 52 | | | n.a. |
| T 21 | 20 37 | 6 17 | 4 17 | 24 42 | 1 38 | 7 37 | 5 34 | 25 54 | 3 26 | 20 13 | 0 16 | 18 46 | 1 36 | 11 58 | 0 22 | 19 37 | 1 24 | 10 47 | 8 20 | 23 24 | 23 27 | 20 50 | | | n.a. |
| W22 | 20 24 | 1 13 | 4 50 | 24 37 | 1 42 | 7 26 | 5 48 | 25 53 | 3 25 | 20 13 | 0 16 | 18 47 | 1 36 | 11 58 | 0 22 | 19 37 | 1 24 | 10 47 | 8 19 | 23 24 | 23 27 | 20 48 | | | n.a. |
| T 23 | 20 11 | 3 s58 | 5 10 | 24 30 | 1 46 | 7 16 | 6 1 | 25 52 | 3 24 | 20 13 | 0 16 | 18 48 | 1 36 | 11 58 | 0 22 | 19 37 | 1 24 | 10 47 | 8 19 | 23 24 | 23 27 | 20 46 | | | n.a. |
| F 24 | 19 58 | 9 5 | 5 15 | 24 21 | 1 49 | 7 8 | 6 13 | 25 51 | 3 23 | 20 13 | 0 15 | 18 49 | 1 36 | 11 58 | 0 22 | 19 36 | 1 24 | 10 47 | 8 19 | 23 24 | 23 28 | 20 44 | | | n.a. |
| S 25 | 19 44 | 13 56 | 5 5 | 24 10 | 1 52 | 7 0 | 6 26 | 25 50 | 3 22 | 20 13 | 0 15 | 18 49 | 1 36 | 11 59 | 0 22 | 19 36 | 1 24 | 10 47 | 8 19 | 23 24 | 23 28 | 20 42 | | | n.a. |
| S 26 | 19 30 | 18 16 | 4 39 | 23 58 | 1 55 | 6 54 | 6 38 | 25 49 | 3 21 | 20 13 | 0 15 | 18 50 | 1 36 | 11 59 | 0 22 | 19 36 | 1 24 | 10 48 | 8 18 | 23 24 | 23 28 | 20 40 | | | n.a. |
| M27 | 19 15 | 21 47 | 3 57 | 23 45 | 1 58 | 6 48 | 6 51 | 25 48 | 3 20 | 20 13 | 0 15 | 18 51 | 1 36 | 11 59 | 0 22 | 19 36 | 1 24 | 10 48 | 8 18 | 23 24 | 23 28 | 20 38 | | | n.a. |
| T 28 | 19 1 | 24 9 | 3 0 | 23 29 | 2 0 | 6 44 | 7 2 | 25 47 | 3 18 | 20 13 | 0 15 | 18 52 | 1 36 | 11 59 | 0 22 | 19 36 | 1 24 | 10 48 | 8 18 | 23 24 | 23 28 | 20 36 | | | n.a. |
| W29 | 18 45 | 25 1 | 1 50 | 23 12 | 2 2 | 6 41 | 7 14 | 25 47 | 3 17 | 20 14 | 0 15 | 18 53 | 1 36 | 12 0 | 0 22 | 19 36 | 1 24 | 10 48 | 8 18 | 23 24 | 23 29 | 20 34 | | | n.a. |
| T 30 | 18 30 | 24 11 | 0 31 | 22 53 | 2 3 | 6 39 | 7 24 | 25 46 | 3 16 | 20 14 | 0 14 | 18 53 | 1 36 | 12 0 | 0 22 | 19 36 | 1 24 | 10 48 | 8 18 | 23 24 | 23 29 | 20 33 | | | n.a. |
| F 31 | 18 s14 | 21 s36 | 0n51 | 22 s32 | 2 s 4 | 6 s38 | 7n35 | 25n46 | 3n15 | 20n14 | 0 s14 | 18 s54 | 1n36 | 12n 1 | 0 s22 | 19n36 | 1 s23 | 10n48 | 8 s17 | 23 s24 | 23 s29 | 20n31 | | | n.a. |

Julian Day Number = 1694029.5, Delta T = 03h08m59s
Ecliptic obliquity = 23°42'16, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°05'59, Lahiri = - 4°58'59 Julian Calendar 1 Jan. 75 BCE == Greg. Calendar 30 Dec. 076 BCE

The year -74 astronomical counting style corresponds to year 075 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 75 BCE
# geocentric

## FEBRUARY 75 BCE (-74) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 32 30 | 9♒53'32 | 3♒25 | 1♒ 3 | 23°R11 | 12♊34 | 0♊27 | 0♐31 | 2♉10 | 2°R52 | 23°R25 | 8°R52 | 7♑34 | 22♋33 | n.a. | S 1 |
| S 2 | 8 36 27 | 10°53'41 | 18°35 | 2°50 | 22♒41 | 12°40 | 0°28 | 0°35 | 2°11 | 2♊51 | 23♉25 | 8♑49 | 7°31 | 22°40 | n.a. | S 2 |
| M 3 | 8 40 24 | 11°53'47 | 3♓36 | 4°37 | 22° 8 | 12°47 | 0°29 | 0°39 | 2°12 | 2°51 | 23°25 | 8°44 | 7°28 | 22°47 | n.a. | M 3 |
| T 4 | 8 44 20 | 12°53'50 | 18°19 | 6°25 | 21°34 | 12°55 | 0°30 | 0°42 | 2°13 | 2°50 | 23°25 | 8°39 | 7°25 | 22°53 | n.a. | T 4 |
| W 5 | 8 48 17 | 13°53'52 | 2♈36 | 8°15 | 20°59 | 13° 3 | 0°32 | 0°46 | 2°15 | 2°50 | 23°25 | 8°34 | 7°21 | 23° 0 | n.a. | W 5 |
| T 6 | 8 52 13 | 14°53'52 | 16°26 | 10° 5 | 20°23 | 13°12 | 0°33 | 0°49 | 2°16 | 2°50 | 23°25 | 8°30 | 7°18 | 23° 7 | n.a. | T 6 |
| F 7 | 8 56 10 | 15°53'49 | 29°46 | 11°57 | 19°46 | 13°22 | 0°35 | 0°53 | 2°17 | 2°50 | 23°25 | 8°27 | 7°15 | 23°13 | n.a. | F 7 |
| S 8 | 9 0 6 | 16°53'44 | 12♉40 | 13°49 | 19° 9 | 13°32 | 0°37 | 0°56 | 2°19 | 2°49 | 23°D25 | 8°D25 | 7°12 | 23°20 | n.a. | S 8 |
| S 9 | 9 4 3 | 17°53'37 | 25°11 | 15°43 | 18°31 | 13°43 | 0°40 | 0°59 | 2°20 | 2°49 | 23°25 | 8°26 | 7° 9 | 23°27 | n.a. | S 9 |
| M10 | 9 7 59 | 18°53'27 | 7♊24 | 17°38 | 17°53 | 13°54 | 0°42 | 1° 2 | 2°21 | 2°49 | 23°25 | 8°27 | 7° 6 | 23°33 | n.a. | M10 |
| T 11 | 9 11 56 | 19°53'15 | 19°23 | 19°34 | 17°15 | 14° 6 | 0°45 | 1° 5 | 2°23 | 2°49 | 23°25 | 8°28 | 7° 2 | 23°40 | n.a. | T 11 |
| W12 | 9 15 53 | 20°53'01 | 1♋14 | 21°30 | 16°38 | 14°18 | 0°48 | 1° 8 | 2°25 | 2°49 | 23°25 | 8°30 | 6°59 | 23°47 | n.a. | W12 |
| T 13 | 9 19 49 | 21°52'44 | 13° 1 | 23°28 | 16° 1 | 14°31 | 0°51 | 1°11 | 2°26 | 2°49 | 23°25 | 8°R30 | 6°56 | 23°53 | n.a. | T 13 |
| F 14 | 9 23 46 | 22°52'25 | 24°47 | 25°26 | 15°26 | 14°44 | 0°54 | 1°14 | 2°28 | 2°D49 | 23°25 | 8°28 | 6°53 | 24° 0 | n.a. | F 14 |
| S 15 | 9 27 42 | 23°52'04 | 6♌37 | 27°25 | 14°51 | 14°58 | 0°57 | 1°16 | 2°29 | 2°49 | 23°25 | 8°25 | 6°50 | 24° 6 | n.a. | S 15 |
| S 16 | 9 31 39 | 24°51'41 | 18°33 | 29°24 | 14°18 | 15°13 | 1° 1 | 1°19 | 2°31 | 2°49 | 23°26 | 8°19 | 6°46 | 24°13 | n.a. | S 16 |
| M17 | 9 35 35 | 25°51'16 | 0♍36 | 1♓24 | 13°47 | 15°27 | 1° 5 | 1°21 | 2°33 | 2°49 | 23°26 | 8°11 | 6°43 | 24°20 | n.a. | M17 |
| T 18 | 9 39 32 | 26°50'48 | 12°48 | 3°24 | 13°17 | 15°43 | 1° 9 | 1°24 | 2°35 | 2°49 | 23°26 | 8° 2 | 6°40 | 24°26 | n.a. | T 18 |
| W19 | 9 43 28 | 27°50'18 | 25°10 | 5°24 | 12°49 | 15°58 | 1°13 | 1°26 | 2°37 | 2°49 | 23°26 | 7°53 | 6°37 | 24°33 | n.a. | W19 |
| T 20 | 9 47 25 | 28°49'47 | 7♎42 | 7°24 | 12°24 | 16°15 | 1°17 | 1°28 | 2°39 | 2°49 | 23°26 | 7°44 | 6°34 | 24°40 | n.a. | T 20 |
| F 21 | 9 51 21 | 29°49'13 | 20°27 | 9°23 | 12° 0 | 16°31 | 1°21 | 1°30 | 2°41 | 2°49 | 23°27 | 7°36 | 6°31 | 24°46 | n.a. | F 21 |
| S 22 | 9 55 18 | 0♓48'38 | 3♏25 | 11°21 | 11°39 | 16°48 | 1°26 | 1°32 | 2°43 | 2°50 | 23°27 | 7°30 | 6°27 | 24°53 | n.a. | S 22 |
| S 23 | 9 59 15 | 1°48'00 | 16°37 | 13°17 | 11°20 | 17° 6 | 1°31 | 1°34 | 2°45 | 2°50 | 23°27 | 7°27 | 6°24 | 25° 0 | n.a. | S 23 |
| M24 | 10 3 11 | 2°47'21 | 0♐ 6 | 15°13 | 11° 3 | 17°23 | 1°36 | 1°36 | 2°47 | 2°50 | 23°28 | 7°D26 | 6°21 | 25° 6 | n.a. | M24 |
| T 25 | 10 7 8 | 3°46'40 | 13°53 | 17° 6 | 10°49 | 17°42 | 1°41 | 1°38 | 2°49 | 2°51 | 23°28 | 7°26 | 6°18 | 25°13 | n.a. | T 25 |
| W26 | 10 11 4 | 4°45'58 | 27°58 | 18°56 | 10°38 | 18° 0 | 1°46 | 1°39 | 2°51 | 2°51 | 23°28 | 7°27 | 6°15 | 25°20 | n.a. | W26 |
| T 27 | 10 15 1 | 5°45'13 | 12♑22 | 20°44 | 10°29 | 18°19 | 1°52 | 1°41 | 2°53 | 2°51 | 23°29 | 7°R27 | 6°12 | 25°26 | n.a. | T 27 |
| F 28 | 10 18 57 | 6♓44'27 | 27♑ 2 | 22♓29 | 10♒22 | 18♊39 | 1♊57 | 1♐42 | 2♉55 | 2♊52 | 23♉29 | 7♑26 | 6♑ 8 | 25♋33 | n.a. | F 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 17s58 | 17s30 | 2n10 | 22s10 | 2s 4 | 6s38 | 7n44 | 25n45 | 3n14 | 20n14 | 0s14 | 18s55 | 1n36 | 12n 1 | 0s22 | 19n36 | 1s23 | 10n49 | 8s17 | 23s24 | 23s29 | 20n29 | | n.a. |
| S 2 | 17 41 | 12 15 | 3 20 | 21 45 | 2 4 | 6 39 | 7 53 | 25 45 | 3 13 | 20 15 | 0 14 | 18 56 | 1 36 | 12 1 | 0 22 | 19 36 | 1 23 | 10 49 | 8 17 | 23 24 | 23 29 | 20 27 | | n.a. |
| M 3 | 17 25 | 6 20 | 4 16 | 21 19 | 2 4 | 6 41 | 8 1 | 25 45 | 3 11 | 20 15 | 0 14 | 18 56 | 1 37 | 12 2 | 0 22 | 19 36 | 1 23 | 10 49 | 8 17 | 23 25 | 23 29 | 20 25 | | n.a. |
| T 4 | 17 8 | 0 11 | 4 53 | 20 51 | 2 3 | 6 45 | 8 9 | 25 45 | 3 10 | 20 16 | 0 13 | 18 57 | 1 37 | 12 2 | 0 22 | 19 36 | 1 23 | 10 49 | 8 16 | 23 25 | 23 30 | 20 23 | | n.a. |
| W 5 | 16 50 | 5n47 | 5 10 | 20 21 | 2 1 | 6 50 | 8 16 | 25 44 | 3 9 | 20 16 | 0 13 | 18 58 | 1 37 | 12 3 | 0 22 | 19 36 | 1 23 | 10 49 | 8 16 | 23 25 | 23 30 | 20 21 | | n.a. |
| T 6 | 16 33 | 11 16 | 5 9 | 19 50 | 2 0 | 6 55 | 8 21 | 25 44 | 3 8 | 20 17 | 0 13 | 18 58 | 1 37 | 12 3 | 0 22 | 19 36 | 1 23 | 10 50 | 8 16 | 23 26 | 23 30 | 20 19 | | n.a. |
| F 7 | 16 15 | 16 2 | 4 51 | 19 16 | 1 57 | 7 2 | 8 26 | 25 44 | 3 7 | 20 17 | 0 13 | 18 59 | 1 37 | 12 4 | 0 22 | 19 36 | 1 23 | 10 50 | 8 16 | 23 26 | 23 30 | 20 17 | | n.a. |
| S 8 | 15 57 | 19 54 | 4 18 | 18 41 | 1 54 | 7 10 | 8 30 | 25 44 | 3 5 | 20 18 | 0 13 | 18 59 | 1 37 | 12 4 | 0 22 | 19 36 | 1 23 | 10 50 | 8 16 | 23 26 | 23 30 | 20 15 | | n.a. |
| S 9 | 15 38 | 22 44 | 3 34 | 18 4 | 1 51 | 7 18 | 8 33 | 25 45 | 3 4 | 20 19 | 0 13 | 19 0 | 1 37 | 12 5 | 0 22 | 19 36 | 1 23 | 10 50 | 8 15 | 23 26 | 23 31 | 20 13 | | n.a. |
| M10 | 15 20 | 24 26 | 2 41 | 17 25 | 1 47 | 7 27 | 8 36 | 25 45 | 3 3 | 20 19 | 0 12 | 19 0 | 1 37 | 12 5 | 0 22 | 19 36 | 1 23 | 10 50 | 8 15 | 23 26 | 23 31 | 20 11 | | n.a. |
| T 11 | 15 1 | 24 58 | 1 42 | 16 44 | 1 42 | 7 38 | 8 37 | 25 45 | 3 2 | 20 20 | 0 12 | 19 1 | 1 37 | 12 6 | 0 22 | 19 36 | 1 23 | 10 51 | 8 15 | 23 26 | 23 31 | 20 9 | | n.a. |
| W12 | 14 42 | 24 21 | 0 39 | 16 1 | 1 37 | 7 48 | 8 37 | 25 45 | 3 0 | 20 21 | 0 12 | 19 2 | 1 37 | 12 6 | 0 22 | 19 36 | 1 23 | 10 51 | 8 15 | 23 26 | 23 31 | 20 7 | | n.a. |
| T 13 | 14 22 | 22 39 | 0s24 | 15 17 | 1 31 | 8 0 | 8 36 | 25 46 | 2 59 | 20 22 | 0 12 | 19 2 | 1 38 | 12 7 | 0 22 | 19 36 | 1 23 | 10 51 | 8 14 | 23 26 | 23 31 | 20 5 | | n.a. |
| F 14 | 14 3 | 19 59 | 1 27 | 14 31 | 1 25 | 8 12 | 8 34 | 25 46 | 2 58 | 20 22 | 0 12 | 19 2 | 1 38 | 12 7 | 0 22 | 19 36 | 1 23 | 10 51 | 8 14 | 23 26 | 23 31 | 20 3 | | n.a. |
| S 15 | 13 43 | 16 28 | 2 26 | 13 43 | 1 18 | 8 24 | 8 32 | 25 46 | 2 57 | 20 23 | 0 12 | 19 3 | 1 38 | 12 8 | 0 22 | 19 36 | 1 23 | 10 52 | 8 14 | 23 26 | 23 32 | 20 1 | | n.a. |
| S 16 | 13 23 | 12 17 | 3 19 | 12 54 | 1 10 | 8 37 | 8 28 | 25 47 | 2 56 | 20 24 | 0 11 | 19 3 | 1 38 | 12 9 | 0 22 | 19 36 | 1 23 | 10 52 | 8 14 | 23 26 | 23 32 | 19 59 | | n.a. |
| M17 | 13 2 | 7 35 | 4 4 | 12 4 | 1 2 | 8 50 | 8 24 | 25 47 | 2 54 | 20 25 | 0 11 | 19 4 | 1 38 | 12 9 | 0 22 | 19 36 | 1 23 | 10 52 | 8 13 | 23 27 | 23 32 | 19 57 | | n.a. |
| T 18 | 12 42 | 2 33 | 4 38 | 11 12 | 0 53 | 9 3 | 8 18 | 25 48 | 2 53 | 20 26 | 0 11 | 19 4 | 1 38 | 12 10 | 0 22 | 19 36 | 1 22 | 10 52 | 8 13 | 23 27 | 23 32 | 19 55 | | n.a. |
| W19 | 12 21 | 2s38 | 4 59 | 10 19 | 0 44 | 9 16 | 8 12 | 25 48 | 2 52 | 20 27 | 0 11 | 19 5 | 1 38 | 12 11 | 0 22 | 19 36 | 1 22 | 10 53 | 8 13 | 23 28 | 23 32 | 19 53 | | n.a. |
| T 20 | 12 1 | 7 46 | 5 7 | 9 25 | 0 34 | 9 30 | 8 6 | 25 49 | 2 51 | 20 28 | 0 11 | 19 5 | 1 38 | 12 11 | 0 22 | 19 36 | 1 22 | 10 53 | 8 13 | 23 29 | 23 32 | 19 51 | | n.a. |
| F 21 | 11 40 | 12 41 | 4 59 | 8 30 | 0 24 | 9 43 | 7 59 | 25 50 | 2 50 | 20 29 | 0 11 | 19 5 | 1 38 | 12 12 | 0 22 | 19 37 | 1 22 | 10 53 | 8 13 | 23 29 | 23 33 | 19 49 | | n.a. |
| S 22 | 11 18 | 17 6 | 4 36 | 7 35 | 0 13 | 9 56 | 7 51 | 25 50 | 2 49 | 20 30 | 0 10 | 19 6 | 1 38 | 12 13 | 0 21 | 19 37 | 1 22 | 10 54 | 8 12 | 23 29 | 23 33 | 19 47 | | n.a. |
| S 23 | 10 57 | 20 47 | 3 58 | 6 40 | 0 2 | 10 10 | 7 42 | 25 51 | 2 47 | 20 31 | 0 10 | 19 6 | 1 39 | 12 13 | 0 21 | 19 37 | 1 22 | 10 54 | 8 12 | 23 30 | 23 33 | 19 45 | | n.a. |
| M24 | 10 36 | 23 26 | 3 7 | 5 44 | 0n10 | 10 22 | 7 33 | 25 51 | 2 46 | 20 33 | 0 10 | 19 6 | 1 39 | 12 14 | 0 21 | 19 37 | 1 22 | 10 54 | 8 12 | 23 30 | 23 33 | 19 43 | | n.a. |
| T 25 | 10 14 | 24 45 | 2 3 | 4 49 | 0 22 | 10 35 | 7 24 | 25 52 | 2 45 | 20 34 | 0 10 | 19 6 | 1 39 | 12 15 | 0 21 | 19 37 | 1 22 | 10 54 | 8 12 | 23 30 | 23 33 | 19 41 | | n.a. |
| W26 | 9 52 | 24 32 | 0 51 | 3 54 | 0 34 | 10 48 | 7 15 | 25 53 | 2 44 | 20 35 | 0 10 | 19 7 | 1 39 | 12 16 | 0 21 | 19 37 | 1 22 | 10 55 | 8 11 | 23 30 | 23 33 | 19 39 | | n.a. |
| T 27 | 9 30 | 22 41 | 0n26 | 3 0 | 0 47 | 11 0 | 7 5 | 25 53 | 2 43 | 20 36 | 0 10 | 19 7 | 1 39 | 12 16 | 0 21 | 19 37 | 1 22 | 10 55 | 8 11 | 23 30 | 23 33 | 19 37 | | n.a. |
| F 28 | 9s 8 | 19s18 | 1n43 | 2s 7 | 0n59 | 11s11 | 6n54 | 25n54 | 2n42 | 20n38 | 0s10 | 19s 7 | 1n39 | 12n17 | 0s21 | 19n37 | 1s22 | 10n55 | 8s11 | 23s30 | 23s34 | 19n35 | | n.a. |

Julian Day Number = 1694060.5, Delta T = 03h08m59s
Ecliptic obliquity = 23°42'16, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°05'55, Lahiri = - 4°58'55 Julian Calendar 1 Feb. 75 BCE == Greg. Calendar 30 Jan. 075 BCE

The year -74 astronomical counting style corresponds to year 075 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 75 BCE
# geocentric

## MARCH 75 BCE (-74) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 22 54 | 7♓43'38 | 11♒54 | 24♓ 9 | 10°R18 | 18♊58 | 2♊ 3 | 1♐44 | 2♉58 | 2♊52 | 23♉30 | 7°R22 | 6♏ 5 | 25♋40 | n.a. | S 1 |
| S 2 | 10 26 50 | 8°42'48 | 26°50 | 25°46 | 10°D16 | 19°18 | 2° 9 | 1°45 | 3° 0 | 2°53 | 23°30 | 7♏15 | 6° 2 | 25°46 | n.a. | S 2 |
| M 3 | 10 30 47 | 9°41'55 | 11♓41 | 27°18 | 10♒17 | 19°39 | 2°15 | 1°46 | 3° 2 | 2°53 | 23°31 | 7° 7 | 5°59 | 25°53 | n.a. | M 3 |
| T 4 | 10 34 44 | 10°41'00 | 26°20 | 28°46 | 10°20 | 20° 0 | 2°21 | 1°47 | 3° 5 | 2°54 | 23°31 | 6°57 | 5°56 | 26° 0 | n.a. | T 4 |
| W 5 | 10 38 40 | 11°40'03 | 10♈39 | 0♈ 8 | 10°25 | 20°21 | 2°28 | 1°48 | 3° 7 | 2°54 | 23°32 | 6°46 | 5°52 | 26° 6 | n.a. | W 5 |
| T 6 | 10 42 37 | 12°39'04 | 24°32 | 1°25 | 10°33 | 20°42 | 2°34 | 1°49 | 3°10 | 2°55 | 23°32 | 6°37 | 5°49 | 26°13 | n.a. | T 6 |
| F 7 | 10 46 33 | 13°38'03 | 7♉58 | 2°36 | 10°43 | 21° 4 | 2°41 | 1°50 | 3°12 | 2°56 | 23°33 | 6°30 | 5°46 | 26°20 | n.a. | F 7 |
| S 8 | 10 50 30 | 14°36'59 | 20°56 | 3°42 | 10°54 | 21°26 | 2°48 | 1°50 | 3°15 | 2°56 | 23°33 | 6°25 | 5°43 | 26°26 | n.a. | S 8 |
| S 9 | 10 54 26 | 15°35'53 | 3♊31 | 4°41 | 11° 8 | 21°49 | 2°55 | 1°51 | 3°17 | 2°57 | 23°34 | 6°23 | 5°40 | 26°33 | n.a. | S 9 |
| M10 | 10 58 23 | 16°34'44 | 15°46 | 5°34 | 11°24 | 22°11 | 3° 2 | 1°51 | 3°20 | 2°58 | 23°35 | 6°D22 | 5°37 | 26°39 | n.a. | M10 |
| T 11 | 11 2 19 | 17°33'33 | 27°46 | 6°21 | 11°42 | 22°34 | 3° 9 | 1°52 | 3°23 | 2°59 | 23°35 | 6°22 | 5°33 | 26°46 | n.a. | T 11 |
| W12 | 11 6 16 | 18°32'20 | 9♋36 | 7° 1 | 12° 2 | 22°58 | 3°17 | 1°52 | 3°25 | 3° 0 | 23°36 | 6°R22 | 5°30 | 26°53 | n.a. | W12 |
| T 13 | 11 10 12 | 19°31'05 | 21°24 | 7°35 | 12°24 | 23°21 | 3°24 | 1°52 | 3°28 | 3° 0 | 23°37 | 6°21 | 5°27 | 26°59 | n.a. | T 13 |
| F 14 | 11 14 9 | 20°29'47 | 3♌12 | 8° 3 | 12°47 | 23°45 | 3°32 | 1°R52 | 3°31 | 3° 1 | 23°37 | 6°18 | 5°24 | 27° 6 | n.a. | F 14 |
| S 15 | 11 18 6 | 21°28'27 | 15° 5 | 8°23 | 13°12 | 24° 9 | 3°40 | 1°52 | 3°34 | 3° 2 | 23°38 | 6°13 | 5°21 | 27°13 | n.a. | S 15 |
| S 16 | 11 22 2 | 22°27'04 | 27° 8 | 8°38 | 13°39 | 24°33 | 3°48 | 1°52 | 3°36 | 3° 3 | 23°39 | 6° 4 | 5°18 | 27°19 | n.a. | S 16 |
| M17 | 11 25 59 | 23°25'40 | 9♍21 | 8°45 | 14° 7 | 24°58 | 3°56 | 1°52 | 3°39 | 3° 4 | 23°40 | 5°54 | 5°14 | 27°26 | n.a. | M17 |
| T 18 | 11 29 55 | 24°24'13 | 21°47 | 8°R47 | 14°37 | 25°23 | 4° 4 | 1°51 | 3°42 | 3° 5 | 23°40 | 5°41 | 5°11 | 27°33 | n.a. | T 18 |
| W19 | 11 33 52 | 25°22'44 | 4♎26 | 8°43 | 15° 8 | 25°48 | 4°12 | 1°51 | 3°45 | 3° 6 | 23°41 | 5°28 | 5° 8 | 27°39 | n.a. | W19 |
| T 20 | 11 37 48 | 26°21'14 | 17°17 | 8°32 | 15°41 | 26°13 | 4°21 | 1°50 | 3°48 | 3° 7 | 23°42 | 5°15 | 5° 5 | 27°46 | n.a. | T 20 |
| F 21 | 11 41 45 | 27°19'41 | 0♏21 | 8°16 | 16°15 | 26°39 | 4°29 | 1°50 | 3°51 | 3° 9 | 23°43 | 5° 4 | 5° 2 | 27°53 | n.a. | F 21 |
| S 22 | 11 45 41 | 28°18'07 | 13°36 | 7°56 | 16°50 | 27° 5 | 4°38 | 1°49 | 3°54 | 3°10 | 23°44 | 4°56 | 4°58 | 27°59 | n.a. | S 22 |
| S 23 | 11 49 38 | 29°16'31 | 27° 2 | 7°30 | 17°27 | 27°31 | 4°47 | 1°48 | 3°57 | 3°11 | 23°45 | 4°50 | 4°55 | 28° 6 | n.a. | S 23 |
| M24 | 11 53 35 | 0♈14'53 | 10♐39 | 7° 0 | 18° 5 | 27°57 | 4°56 | 1°47 | 4° 0 | 3°12 | 23°46 | 4°48 | 4°52 | 28°13 | n.a. | M24 |
| T 25 | 11 57 31 | 1°13'14 | 24°26 | 6°27 | 18°44 | 28°23 | 5° 5 | 1°46 | 4° 3 | 3°13 | 23°46 | 4°47 | 4°49 | 28°19 | n.a. | T 25 |
| W26 | 12 1 28 | 2°11'33 | 8♑26 | 5°51 | 19°24 | 28°50 | 5°14 | 1°45 | 4° 6 | 3°14 | 23°47 | 4°47 | 4°46 | 28°26 | n.a. | W26 |
| T 27 | 12 5 24 | 3° 9'51 | 22°36 | 5°13 | 20° 5 | 29°17 | 5°23 | 1°44 | 4° 9 | 3°16 | 23°48 | 4°46 | 4°43 | 28°33 | n.a. | T 27 |
| F 28 | 12 9 21 | 4° 8'07 | 6♒57 | 4°34 | 20°47 | 29°44 | 5°33 | 1°43 | 4°12 | 3°17 | 23°49 | 4°44 | 4°39 | 28°39 | n.a. | F 28 |
| S 29 | 12 13 17 | 5° 6'21 | 21°25 | 3°54 | 21°30 | 0♋11 | 5°42 | 1°41 | 4°15 | 3°18 | 23°50 | 4°39 | 4°36 | 28°46 | n.a. | S 29 |
| S 30 | 12 17 14 | 6° 4'34 | 5♓57 | 3°13 | 22°14 | 0°38 | 5°52 | 1°40 | 4°19 | 3°20 | 23°51 | 4°31 | 4°33 | 28°53 | n.a. | S 30 |
| M31 | 12 21 10 | 7♈ 2'44 | 20♓26 | 2♈34 | 22♒59 | 1♋ 6 | 6♊ 2 | 1♐38 | 4♉22 | 3♊21 | 23♉52 | 4♏21 | 4♏30 | 28♋59 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 8s46 | 14s38 | 2n53 | 1s15 | 1n11 | 11s22 | 6n44 | 25n54 | 2n41 | 20n39 | 0s 9 | 19s 7 | 1n39 | 12n18 | 0s21 | 19n38 | 1s22 | 10n56 | 8s11 | 23s30 | 23s34 | 19n33 | | n.a. |
| S 2 | 8 24 | 9 4 | 3 52 | 0 25 | 1 24 | 11 33 | 6 33 | 25 55 | 2 39 | 20 40 | 0 9 | 19 7 | 1 39 | 12 19 | 0 21 | 19 38 | 1 22 | 10 56 | 8 11 | 23 30 | 23 34 | 19 31 | | n.a. |
| M 3 | 8 1 | 3 2 | 4 35 | 0n23 | 1 36 | 11 44 | 6 22 | 25 56 | 2 38 | 20 42 | 0 9 | 19 7 | 1 39 | 12 20 | 0 21 | 19 38 | 1 22 | 10 56 | 8 10 | 23 31 | 23 34 | 19 29 | | n.a. |
| T 4 | 7 39 | 3n 5 | 4 59 | 1 9 | 1 48 | 11 53 | 6 11 | 25 56 | 2 37 | 20 43 | 0 9 | 19 7 | 1 39 | 12 21 | 0 21 | 19 38 | 1 22 | 10 57 | 8 10 | 23 31 | 23 34 | 19 27 | | n.a. |
| W 5 | 7 16 | 8 54 | 5 3 | 1 53 | 1 59 | 12 3 | 6 0 | 25 57 | 2 36 | 20 44 | 0 9 | 19 8 | 1 40 | 12 21 | 0 21 | 19 38 | 1 22 | 10 57 | 8 10 | 23 32 | 23 34 | 19 25 | | n.a. |
| T 6 | 6 53 | 14 5 | 4 49 | 2 34 | 2 10 | 12 11 | 5 49 | 25 57 | 2 35 | 20 46 | 0 9 | 19 8 | 1 40 | 12 22 | 0 21 | 19 38 | 1 22 | 10 57 | 8 10 | 23 32 | 23 34 | 19 23 | | n.a. |
| F 7 | 6 30 | 18 24 | 4 20 | 3 12 | 2 21 | 12 20 | 5 38 | 25 58 | 2 34 | 20 47 | 0 8 | 19 8 | 1 40 | 12 23 | 0 21 | 19 39 | 1 22 | 10 58 | 8 9 | 23 33 | 23 35 | 19 21 | | n.a. |
| S 8 | 6 7 | 21 41 | 3 37 | 3 47 | 2 31 | 12 27 | 5 26 | 25 58 | 2 33 | 20 49 | 0 8 | 19 8 | 1 40 | 12 24 | 0 21 | 19 39 | 1 21 | 10 58 | 8 9 | 23 33 | 23 35 | 19 18 | | n.a. |
| S 9 | 5 44 | 23 48 | 2 46 | 4 19 | 2 40 | 12 34 | 5 15 | 25 58 | 2 32 | 20 50 | 0 8 | 19 8 | 1 40 | 12 25 | 0 21 | 19 39 | 1 21 | 10 58 | 8 9 | 23 33 | 23 35 | 19 16 | | n.a. |
| M10 | 5 21 | 24 43 | 1 48 | 4 48 | 2 48 | 12 41 | 5 4 | 25 59 | 2 31 | 20 52 | 0 8 | 19 8 | 1 40 | 12 26 | 0 21 | 19 39 | 1 21 | 10 59 | 8 9 | 23 33 | 23 35 | 19 14 | | n.a. |
| T 11 | 4 58 | 24 27 | 0 46 | 5 14 | 2 56 | 12 47 | 4 53 | 25 59 | 2 30 | 20 53 | 0 8 | 19 8 | 1 40 | 12 27 | 0 21 | 19 39 | 1 21 | 10 59 | 8 9 | 23 33 | 23 35 | 19 12 | | n.a. |
| W12 | 4 35 | 23 4 | 0s17 | 5 36 | 3 2 | 12 52 | 4 42 | 25 59 | 2 29 | 20 55 | 0 8 | 19 8 | 1 40 | 12 28 | 0 21 | 19 40 | 1 21 | 11 0 | 8 8 | 23 33 | 23 35 | 19 10 | | n.a. |
| T 13 | 4 12 | 20 41 | 1 19 | 5 55 | 3 8 | 12 57 | 4 30 | 26 0 | 2 28 | 20 57 | 0 8 | 19 8 | 1 40 | 12 29 | 0 21 | 19 40 | 1 21 | 11 0 | 8 8 | 23 33 | 23 35 | 19 8 | | n.a. |
| F 14 | 3 48 | 17 26 | 2 17 | 6 9 | 3 12 | 13 1 | 4 20 | 26 0 | 2 27 | 20 58 | 0 8 | 19 8 | 1 40 | 12 30 | 0 21 | 19 40 | 1 21 | 11 0 | 8 8 | 23 33 | 23 36 | 19 6 | | n.a. |
| S 15 | 3 25 | 13 28 | 3 10 | 6 21 | 3 15 | 13 4 | 4 9 | 26 0 | 2 26 | 21 0 | 0 7 | 19 7 | 1 41 | 12 31 | 0 21 | 19 40 | 1 21 | 11 1 | 8 8 | 23 33 | 23 36 | 19 4 | | n.a. |
| S 16 | 3 2 | 8 56 | 3 55 | 6 28 | 3 17 | 13 7 | 3 58 | 26 0 | 2 24 | 21 2 | 0 7 | 19 7 | 1 41 | 12 32 | 0 21 | 19 41 | 1 21 | 11 1 | 8 8 | 23 34 | 23 36 | 19 2 | | n.a. |
| M17 | 2 38 | 4 0 | 4 29 | 6 32 | 3 17 | 13 9 | 3 47 | 26 0 | 2 23 | 21 3 | 0 7 | 19 7 | 1 41 | 12 33 | 0 21 | 19 41 | 1 21 | 11 1 | 8 7 | 23 34 | 23 36 | 19 0 | | n.a. |
| T 18 | 2 15 | 1s10 | 4 52 | 6 31 | 3 17 | 13 10 | 3 37 | 26 0 | 2 22 | 21 5 | 0 7 | 19 7 | 1 41 | 12 34 | 0 21 | 19 41 | 1 21 | 11 2 | 8 7 | 23 35 | 23 36 | 18 58 | | n.a. |
| W19 | 1 51 | 6 22 | 5 0 | 6 28 | 3 14 | 13 11 | 3 26 | 26 0 | 2 21 | 21 7 | 0 7 | 19 7 | 1 41 | 12 35 | 0 21 | 19 41 | 1 21 | 11 2 | 8 7 | 23 35 | 23 36 | 18 55 | | n.a. |
| T 20 | 1 28 | 11 23 | 4 54 | 6 20 | 3 11 | 13 11 | 3 16 | 25 59 | 2 20 | 21 8 | 0 7 | 19 7 | 1 41 | 12 36 | 0 21 | 19 42 | 1 21 | 11 3 | 8 7 | 23 36 | 23 36 | 18 53 | | n.a. |
| F 21 | 1 4 | 15 57 | 4 32 | 6 9 | 3 5 | 13 11 | 3 6 | 25 59 | 2 19 | 21 10 | 0 7 | 19 6 | 1 41 | 12 37 | 0 21 | 19 42 | 1 21 | 11 3 | 8 7 | 23 36 | 23 36 | 18 51 | | n.a. |
| S 22 | 0 41 | 19 50 | 3 56 | 5 55 | 2 59 | 13 10 | 2 56 | 25 59 | 2 18 | 21 12 | 0 6 | 19 6 | 1 41 | 12 38 | 0 21 | 19 42 | 1 21 | 11 3 | 8 6 | 23 37 | 23 37 | 18 49 | | n.a. |
| S 23 | 0 17 | 22 43 | 3 5 | 5 37 | 2 51 | 13 8 | 2 46 | 25 58 | 2 18 | 21 14 | 0 6 | 19 6 | 1 41 | 12 39 | 0 21 | 19 42 | 1 21 | 11 4 | 8 6 | 23 37 | 23 37 | 18 47 | | n.a. |
| M24 | 0n 6 | 24 20 | 2 4 | 5 17 | 2 41 | 13 6 | 2 37 | 25 58 | 2 17 | 21 15 | 0 6 | 19 6 | 1 41 | 12 40 | 0 21 | 19 43 | 1 21 | 11 4 | 8 6 | 23 37 | 23 37 | 18 45 | | n.a. |
| T 25 | 0 29 | 24 30 | 0 54 | 4 53 | 2 31 | 13 3 | 2 27 | 25 57 | 2 16 | 21 17 | 0 6 | 19 5 | 1 41 | 12 41 | 0 21 | 19 43 | 1 21 | 11 5 | 8 6 | 23 37 | 23 37 | 18 43 | | n.a. |
| W26 | 0 53 | 23 7 | 0n19 | 4 28 | 2 19 | 12 59 | 2 18 | 25 57 | 2 15 | 21 19 | 0 6 | 19 5 | 1 42 | 12 42 | 0 21 | 19 43 | 1 21 | 11 5 | 8 6 | 23 37 | 23 37 | 18 41 | | n.a. |
| T 27 | 1 16 | 20 16 | 1 33 | 4 1 | 2 5 | 12 55 | 2 9 | 25 56 | 2 14 | 21 21 | 0 6 | 19 5 | 1 42 | 12 43 | 0 21 | 19 43 | 1 21 | 11 5 | 8 5 | 23 37 | 23 37 | 18 38 | | n.a. |
| F 28 | 1 40 | 16 8 | 2 41 | 3 32 | 1 51 | 12 50 | 2 0 | 25 55 | 2 13 | 21 22 | 0 6 | 19 4 | 1 42 | 12 44 | 0 21 | 19 44 | 1 20 | 11 6 | 8 5 | 23 37 | 23 37 | 18 36 | | n.a. |
| S 29 | 2 3 | 11 3 | 3 40 | 3 2 | 1 36 | 12 45 | 1 51 | 25 54 | 2 12 | 21 24 | 0 6 | 19 4 | 1 42 | 12 45 | 0 21 | 19 44 | 1 20 | 11 6 | 8 5 | 23 37 | 23 37 | 18 34 | | n.a. |
| S 30 | 2 26 | 5 20 | 4 24 | 2 31 | 1 20 | 12 38 | 1 42 | 25 53 | 2 11 | 21 26 | 0 5 | 19 4 | 1 42 | 12 46 | 0 21 | 19 44 | 1 20 | 11 7 | 8 5 | 23 38 | 23 38 | 18 32 | | n.a. |
| M31 | 2n50 | 0n38 | 4n52 | 2n 1 | 1n 4 | 12s32 | 1n34 | 25n52 | 2n10 | 21n28 | 0s 5 | 19s 3 | 1n42 | 12n47 | 0s21 | 19n45 | 1s20 | 11n 7 | 8s 5 | 23s38 | 23s38 | 18n30 | | n.a. |

Julian Day Number = 1694088.5, Delta T = 03h08m58s
Ecliptic obliquity = 23°42'16, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°05'51, Lahiri = - 4°58'51 Julian Calendar 1 March 75 BCE == Greg. Calendar 27 Feb. 075 BCE

The year -74 astronomical counting style corresponds to year 075 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 75 BCE
# geocentric

## APRIL 75 BCE (-74) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 25 7 | 8♈ 0'54 | 4♈46 | 1°R56 | 23♒45 | 1♋34 | 6♊11 | 1°R37 | 4♉25 | 3♊23 | 23♉53 | 4°R10 | 4♑27 | 29♋ 6 | n.a. | T 1 |
| W 2 | 12 29 3 | 8°59'01 | 18°50 | 1♈20 | 24°32 | 2° 2 | 6°21 | 1♐35 | 4°28 | 3°24 | 23°54 | 3♑58 | 4°23 | 29°13 | n.a. | W 2 |
| T 3 | 12 33 0 | 9°57'07 | 2♉34 | 0°47 | 25°19 | 2°30 | 6°31 | 1°33 | 4°31 | 3°25 | 23°55 | 3°47 | 4°20 | 29°19 | n.a. | T 3 |
| F 4 | 12 36 57 | 10°55'10 | 15°55 | 0°16 | 26° 8 | 2°59 | 6°41 | 1°31 | 4°35 | 3°27 | 23°56 | 3°38 | 4°17 | 29°26 | n.a. | F 4 |
| S 5 | 12 40 53 | 11°53'12 | 28°52 | 29♓50 | 26°57 | 3°27 | 6°52 | 1°29 | 4°38 | 3°28 | 23°58 | 3°31 | 4°14 | 29°33 | n.a. | S 5 |
| S 6 | 12 44 50 | 12°51'13 | 11♊27 | 29°27 | 27°46 | 3°56 | 7° 2 | 1°27 | 4°41 | 3°30 | 23°59 | 3°28 | 4°11 | 29°39 | n.a. | S 6 |
| M 7 | 12 48 46 | 13°49'11 | 23°43 | 29° 8 | 28°37 | 4°25 | 7°12 | 1°25 | 4°45 | 3°32 | 24° 0 | 3°26 | 4° 8 | 29°46 | n.a. | M 7 |
| T 8 | 12 52 43 | 14°47'07 | 5♋45 | 28°54 | 29°28 | 4°54 | 7°23 | 1°23 | 4°48 | 3°33 | 24° 1 | 3°D26 | 4° 4 | 29°53 | n.a. | T 8 |
| W 9 | 12 56 39 | 15°45'01 | 17°37 | 28°44 | 0♓19 | 5°23 | 7°33 | 1°20 | 4°51 | 3°35 | 24° 2 | 3°R26 | 4° 1 | 29°59 | n.a. | W 9 |
| T 10 | 13 0 36 | 16°42'54 | 29°26 | 28°39 | 1°12 | 5°52 | 7°44 | 1°18 | 4°55 | 3°36 | 24° 3 | 3°25 | 3°58 | 0♌ 6 | n.a. | T 10 |
| F 11 | 13 4 32 | 17°40'44 | 11♌17 | 28°D39 | 2° 5 | 6°22 | 7°55 | 1°15 | 4°58 | 3°38 | 24° 4 | 3°23 | 3°55 | 0°13 | n.a. | F 11 |
| S 12 | 13 8 29 | 18°38'33 | 23°14 | 28°43 | 2°58 | 6°52 | 8° 6 | 1°13 | 5° 1 | 3°40 | 24° 5 | 3°18 | 3°52 | 0°19 | n.a. | S 12 |
| S 13 | 13 12 26 | 19°36'20 | 5♍22 | 28°52 | 3°52 | 7°21 | 8°17 | 1°10 | 5° 5 | 3°41 | 24° 7 | 3°11 | 3°49 | 0°26 | n.a. | S 13 |
| M14 | 13 16 22 | 20°34'05 | 17°44 | 29° 6 | 4°46 | 7°51 | 8°28 | 1° 7 | 5° 8 | 3°43 | 24° 8 | 3° 2 | 3°45 | 0°33 | n.a. | M14 |
| T 15 | 13 20 19 | 21°31'49 | 0♎22 | 29°24 | 5°41 | 8°22 | 8°39 | 1° 5 | 5°12 | 3°45 | 24° 9 | 2°50 | 3°42 | 0°39 | n.a. | T 15 |
| W16 | 13 24 15 | 22°29'30 | 13°17 | 29°46 | 6°37 | 8°52 | 8°50 | 1° 2 | 5°15 | 3°47 | 24°10 | 2°39 | 3°39 | 0°46 | n.a. | W16 |
| T 17 | 13 28 12 | 23°27'11 | 26°28 | 0♈13 | 7°33 | 9°22 | 9° 1 | 0°59 | 5°18 | 3°48 | 24°12 | 2°27 | 3°36 | 0°52 | n.a. | T 17 |
| F 18 | 13 32 8 | 24°24'50 | 9♏54 | 0°44 | 8°29 | 9°53 | 9°12 | 0°56 | 5°22 | 3°50 | 24°13 | 2°18 | 3°33 | 0°59 | n.a. | F 18 |
| S 19 | 13 36 5 | 25°22'28 | 23°33 | 1°19 | 9°26 | 10°23 | 9°24 | 0°53 | 5°25 | 3°52 | 24°14 | 2°10 | 3°29 | 1° 6 | n.a. | S 19 |
| S 20 | 13 40 1 | 26°20'04 | 7♐21 | 1°57 | 10°24 | 10°54 | 9°35 | 0°49 | 5°29 | 3°54 | 24°15 | 2° 5 | 3°26 | 1°12 | n.a. | S 20 |
| M21 | 13 43 58 | 27°17'40 | 21°16 | 2°40 | 11°21 | 11°25 | 9°47 | 0°46 | 5°32 | 3°56 | 24°17 | 2° 3 | 3°23 | 1°19 | n.a. | M21 |
| T 22 | 13 47 55 | 28°15'14 | 5♑17 | 3°26 | 12°20 | 11°56 | 9°58 | 0°43 | 5°36 | 3°58 | 24°18 | 2°D 3 | 3°20 | 1°26 | n.a. | T 22 |
| W23 | 13 51 51 | 29°12'48 | 19°22 | 4°16 | 13°18 | 12°27 | 10°10 | 0°40 | 5°39 | 4° 0 | 24°19 | 2° 3 | 3°17 | 1°32 | n.a. | W23 |
| T 24 | 13 55 48 | 0♉10'20 | 3♒31 | 5°10 | 14°17 | 12°59 | 10°22 | 0°36 | 5°43 | 4° 1 | 24°20 | 2°R 3 | 3°14 | 1°39 | n.a. | T 24 |
| F 25 | 13 59 44 | 1° 7'52 | 17°41 | 6° 6 | 15°16 | 13°30 | 10°33 | 0°33 | 5°46 | 4° 3 | 24°22 | 2° 2 | 3°10 | 1°46 | n.a. | F 25 |
| S 26 | 14 3 41 | 2° 5'22 | 1♓51 | 7° 6 | 16°16 | 14° 2 | 10°45 | 0°29 | 5°50 | 4° 5 | 24°23 | 1°59 | 3° 7 | 1°52 | n.a. | S 26 |
| S 27 | 14 7 37 | 3° 2'52 | 15°59 | 8°10 | 17°16 | 14°33 | 10°57 | 0°26 | 5°53 | 4° 7 | 24°24 | 1°53 | 3° 4 | 1°59 | n.a. | S 27 |
| M28 | 14 11 34 | 4° 0'20 | 0♈ 2 | 9°16 | 18°16 | 15° 5 | 11° 9 | 0°22 | 5°57 | 4° 9 | 24°26 | 1°46 | 3° 1 | 2° 6 | n.a. | M28 |
| T 29 | 14 15 30 | 4°57'48 | 13°55 | 10°25 | 19°17 | 15°37 | 11°21 | 0°18 | 6° 0 | 4°11 | 24°27 | 1°37 | 2°58 | 2°12 | n.a. | T 29 |
| W30 | 14 19 27 | 5♉55'15 | 27♈36 | 11♈37 | 20♓18 | 16♋ 9 | 11♊33 | 0♐14 | 6♉ 4 | 4♊13 | 24♉28 | 1♑28 | 2♑54 | 2♌19 | n.a. | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3n13 | 6n30 | 5n 0 | 1n30 | 0n48 | 12s25 | 1n25 | 25n51 | 2n 9 | 21n30 | 0s 5 | 19s 3 | 1n42 | 12n49 | 0s21 | 19n45 | 1s20 | 11n 7 | 8s 5 | 23s38 | 23s38 | 18n28 | | n.a. |
| W 2 | 3 36 | 11 56 | 4 51 | 1 0 | 0 31 | 12 17 | 1 17 | 25 49 | 2 8 | 21 32 | 0 5 | 19 2 | 1 42 | 12 50 | 0 21 | 19 45 | 1 20 | 11 8 | 8 4 | 23 39 | 23 38 | 18 26 | | n.a. |
| T 3 | 3 59 | 16 37 | 4 24 | 0 32 | 0 14 | 12 8 | 1 9 | 25 48 | 2 7 | 21 33 | 0 5 | 19 2 | 1 42 | 12 51 | 0 21 | 19 46 | 1 20 | 11 8 | 8 4 | 23 39 | 23 38 | 18 23 | | n.a. |
| F 4 | 4 22 | 20 21 | 3 43 | 0 4 | 0s 3 | 11 59 | 1 1 | 25 46 | 2 6 | 21 35 | 0 5 | 19 1 | 1 42 | 12 52 | 0 21 | 19 46 | 1 20 | 11 9 | 8 4 | 23 39 | 23 38 | 18 21 | | n.a. |
| S 5 | 4 45 | 22 56 | 2 52 | 0s22 | 0 19 | 11 50 | 0 54 | 25 45 | 2 5 | 21 37 | 0 5 | 19 1 | 1 42 | 12 53 | 0 21 | 19 46 | 1 20 | 11 9 | 8 4 | 23 39 | 23 38 | 18 19 | | n.a. |
| S 6 | 5 8 | 24 17 | 1 54 | 0 46 | 0 35 | 11 40 | 0 46 | 25 43 | 2 4 | 21 39 | 0 5 | 19 1 | 1 42 | 12 54 | 0 21 | 19 47 | 1 20 | 11 10 | 8 4 | 23 40 | 23 38 | 18 17 | | n.a. |
| M 7 | 5 31 | 24 24 | 0 51 | 1 7 | 0 51 | 11 29 | 0 39 | 25 41 | 2 4 | 21 41 | 0 4 | 19 0 | 1 43 | 12 55 | 0 21 | 19 47 | 1 20 | 11 10 | 8 4 | 23 40 | 23 38 | 18 15 | | n.a. |
| T 8 | 5 53 | 23 22 | 0s12 | 1 27 | 1 6 | 11 18 | 0 31 | 25 39 | 2 3 | 21 43 | 0 4 | 18 59 | 1 43 | 12 56 | 0 21 | 19 47 | 1 20 | 11 10 | 8 3 | 23 40 | 23 38 | 18 12 | | n.a. |
| W 9 | 6 16 | 21 18 | 1 15 | 1 44 | 1 20 | 11 6 | 0 24 | 25 37 | 2 2 | 21 45 | 0 4 | 18 59 | 1 43 | 12 58 | 0 21 | 19 48 | 1 20 | 11 11 | 8 3 | 23 40 | 23 39 | 18 10 | | n.a. |
| T 10 | 6 38 | 18 19 | 2 13 | 1 58 | 1 33 | 10 54 | 0 18 | 25 35 | 2 1 | 21 47 | 0 4 | 18 58 | 1 43 | 12 59 | 0 21 | 19 48 | 1 20 | 11 11 | 8 3 | 23 40 | 23 39 | 18 8 | | n.a. |
| F 11 | 7 1 | 14 36 | 3 7 | 2 10 | 1 46 | 10 41 | 0 11 | 25 33 | 2 0 | 21 48 | 0 4 | 18 58 | 1 43 | 13 0 | 0 21 | 19 48 | 1 20 | 11 12 | 8 3 | 23 40 | 23 39 | 18 6 | | n.a. |
| S 12 | 7 23 | 10 16 | 3 52 | 2 19 | 1 58 | 10 28 | 0 4 | 25 30 | 1 59 | 21 50 | 0 4 | 18 57 | 1 43 | 13 1 | 0 21 | 19 49 | 1 20 | 11 12 | 8 3 | 23 40 | 23 39 | 18 4 | | n.a. |
| S 13 | 7 45 | 5 30 | 4 28 | 2 25 | 2 9 | 10 14 | 0s 2 | 25 28 | 1 58 | 21 52 | 0 4 | 18 57 | 1 43 | 13 2 | 0 21 | 19 49 | 1 20 | 11 12 | 8 3 | 23 40 | 23 39 | 18 2 | | n.a. |
| M14 | 8 7 | 0 26 | 4 51 | 2 29 | 2 19 | 10 0 | 0 8 | 25 25 | 1 57 | 21 54 | 0 4 | 18 56 | 1 43 | 13 3 | 0 21 | 19 49 | 1 20 | 11 13 | 8 2 | 23 40 | 23 39 | 17 59 | | n.a. |
| T 15 | 8 29 | 4s45 | 5 2 | 2 30 | 2 28 | 9 45 | 0 14 | 25 23 | 1 57 | 21 56 | 0 3 | 18 55 | 1 43 | 13 5 | 0 21 | 19 50 | 1 20 | 11 13 | 8 2 | 23 40 | 23 39 | 17 57 | | n.a. |
| W16 | 8 51 | 9 51 | 4 57 | 2 29 | 2 37 | 9 30 | 0 20 | 25 20 | 1 56 | 21 58 | 0 3 | 18 55 | 1 43 | 13 6 | 0 20 | 19 50 | 1 20 | 11 14 | 8 2 | 23 41 | 23 39 | 17 55 | | n.a. |
| T 17 | 9 12 | 14 36 | 4 36 | 2 25 | 2 44 | 9 14 | 0 26 | 25 17 | 1 55 | 22 0 | 0 3 | 18 54 | 1 43 | 13 7 | 0 20 | 19 51 | 1 20 | 11 14 | 8 2 | 23 41 | 23 39 | 17 53 | | n.a. |
| F 18 | 9 34 | 18 44 | 4 0 | 2 19 | 2 51 | 8 58 | 0 32 | 25 14 | 1 54 | 22 1 | 0 3 | 18 53 | 1 43 | 13 8 | 0 20 | 19 51 | 1 20 | 11 15 | 8 2 | 23 41 | 23 39 | 17 50 | | n.a. |
| S 19 | 9 55 | 21 55 | 3 10 | 2 10 | 2 56 | 8 41 | 0 37 | 25 10 | 1 53 | 22 3 | 0 3 | 18 53 | 1 43 | 13 9 | 0 20 | 19 51 | 1 20 | 11 15 | 8 2 | 23 41 | 23 39 | 17 48 | | n.a. |
| S 20 | 10 16 | 23 52 | 2 8 | 1 59 | 3 1 | 8 25 | 0 43 | 25 7 | 1 52 | 22 5 | 0 3 | 18 52 | 1 43 | 13 10 | 0 20 | 19 52 | 1 19 | 11 15 | 8 2 | 23 41 | 23 40 | 17 46 | | n.a. |
| M21 | 10 37 | 24 22 | 0 57 | 1 45 | 3 5 | 8 7 | 0 48 | 25 3 | 1 51 | 22 7 | 0 3 | 18 51 | 1 43 | 13 12 | 0 20 | 19 52 | 1 19 | 11 16 | 8 2 | 23 41 | 23 40 | 17 44 | | n.a. |
| T 22 | 10 58 | 23 19 | 0n17 | 1 30 | 3 8 | 7 49 | 0 53 | 25 0 | 1 51 | 22 9 | 0 3 | 18 51 | 1 43 | 13 13 | 0 20 | 19 52 | 1 19 | 11 16 | 8 1 | 23 41 | 23 40 | 17 42 | | n.a. |
| W23 | 11 19 | 20 47 | 1 31 | 1 12 | 3 11 | 7 31 | 0 58 | 24 56 | 1 50 | 22 11 | 0 3 | 18 50 | 1 43 | 13 14 | 0 20 | 19 53 | 1 19 | 11 17 | 8 1 | 23 41 | 23 40 | 17 39 | | n.a. |
| T 24 | 11 39 | 17 0 | 2 40 | 0 52 | 3 12 | 7 12 | 1 2 | 24 52 | 1 49 | 22 13 | 0 2 | 18 49 | 1 43 | 13 15 | 0 20 | 19 53 | 1 19 | 11 17 | 8 1 | 23 41 | 23 40 | 17 37 | | n.a. |
| F 25 | 12 0 | 12 14 | 3 39 | 0 30 | 3 13 | 6 53 | 1 7 | 24 48 | 1 48 | 22 14 | 0 2 | 18 48 | 1 43 | 13 16 | 0 20 | 19 54 | 1 19 | 11 18 | 8 1 | 23 41 | 23 40 | 17 35 | | n.a. |
| S 26 | 12 20 | 6 49 | 4 24 | 0 6 | 3 13 | 6 34 | 1 11 | 24 44 | 1 47 | 22 16 | 0 2 | 18 48 | 1 43 | 13 17 | 0 20 | 19 54 | 1 19 | 11 18 | 8 1 | 23 41 | 23 40 | 17 33 | | n.a. |
| S 27 | 12 40 | 1 5 | 4 53 | 0n20 | 3 13 | 6 14 | 1 15 | 24 40 | 1 47 | 22 18 | 0 2 | 18 47 | 1 43 | 13 19 | 0 20 | 19 54 | 1 19 | 11 18 | 8 1 | 23 41 | 23 40 | 17 30 | | n.a. |
| M28 | 13 0 | 4n40 | 5 5 | 0 47 | 3 11 | 5 54 | 1 20 | 24 35 | 1 46 | 22 20 | 0 2 | 18 46 | 1 43 | 13 20 | 0 20 | 19 55 | 1 19 | 11 19 | 8 1 | 23 42 | 23 40 | 17 28 | | n.a. |
| T 29 | 13 19 | 10 7 | 4 58 | 1 16 | 3 9 | 5 34 | 1 24 | 24 31 | 1 45 | 22 22 | 0 2 | 18 45 | 1 43 | 13 21 | 0 20 | 19 55 | 1 19 | 11 19 | 8 1 | 23 42 | 23 40 | 17 26 | | n.a. |
| W30 | 13n39 | 14n59 | 4n34 | 1n47 | 3s 6 | 5s13 | 1s27 | 24n26 | 1n44 | 22n23 | 0s 2 | 18s44 | 1n43 | 13n22 | 0s20 | 19n56 | 1s19 | 11n20 | 8s 0 | 23s42 | 23s40 | 17n24 | | n.a. |

Julian Day Number = 1694119.5, Delta T = 03h08m57s
Ecliptic obliquity = 23°42'16, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°05'47, Lahiri = - 4°58'47 Julian Calendar 1 Apr. 75 BCE == Greg. Calendar 30 March 075 BCE

The year -74 astronomical counting style corresponds to year 075 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 75 BCE
# geocentric

## MAY 75 BCE (-74) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 23 24 | 6♉52'41 | 11♉ 1 | 12♈52 | 21♓19 | 16♋41 | 11♊45 | 0°R11 | 6♉ 7 | 4♊15 | 24♉30 | 1°R19 | 2♏51 | 2♌26 | n.a. | T 1 |
| F 2 | 14 27 20 | 7°50'05 | 24° 7 | 14°10 | 22°20 | 17°13 | 11°58 | 0♐ 7 | 6°11 | 4°17 | 24°31 | 1♏12 | 2°48 | 2°32 | n.a. | F 2 |
| S 3 | 14 31 17 | 8°47'29 | 6♊54 | 15°30 | 23°22 | 17°46 | 12°10 | 0° 3 | 6°14 | 4°19 | 24°32 | 1° 7 | 2°45 | 2°39 | n.a. | S 3 |
| S 4 | 14 35 13 | 9°44'51 | 19°23 | 16°54 | 24°24 | 18°18 | 12°22 | 29♏59 | 6°18 | 4°21 | 24°34 | 1° 4 | 2°42 | 2°46 | n.a. | S 4 |
| M 5 | 14 39 10 | 10°42'13 | 1♋37 | 18°20 | 25°26 | 18°51 | 12°35 | 29°55 | 6°21 | 4°23 | 24°35 | 1°D 4 | 2°39 | 2°52 | n.a. | M 5 |
| T 6 | 14 43 6 | 11°39'33 | 13°37 | 19°48 | 26°29 | 19°23 | 12°47 | 29°51 | 6°25 | 4°26 | 24°37 | 1° 4 | 2°35 | 2°59 | n.a. | T 6 |
| W 7 | 14 47 3 | 12°36'52 | 25°30 | 21°20 | 27°32 | 19°56 | 13° 0 | 29°47 | 6°28 | 4°28 | 24°38 | 1° 5 | 2°32 | 3° 6 | n.a. | W 7 |
| T 8 | 14 50 59 | 13°34'11 | 7♌20 | 22°54 | 28°35 | 20°29 | 13°12 | 29°43 | 6°32 | 4°30 | 24°39 | 1° 7 | 2°29 | 3°12 | n.a. | T 8 |
| F 9 | 14 54 56 | 14°31'27 | 19°12 | 24°31 | 29°38 | 21° 2 | 13°25 | 29°38 | 6°35 | 4°32 | 24°41 | 1°R 7 | 2°26 | 3°19 | n.a. | F 9 |
| S 10 | 14 58 53 | 15°28'43 | 1♍10 | 26°10 | 0♈41 | 21°35 | 13°37 | 29°34 | 6°39 | 4°34 | 24°42 | 1° 5 | 2°23 | 3°26 | n.a. | S 10 |
| S 11 | 15 2 49 | 16°25'58 | 13°21 | 27°52 | 1°45 | 22° 8 | 13°50 | 29°30 | 6°42 | 4°36 | 24°44 | 1° 2 | 2°20 | 3°32 | n.a. | S 11 |
| M12 | 15 6 46 | 17°23'12 | 25°47 | 29°36 | 2°49 | 22°42 | 14° 3 | 29°26 | 6°46 | 4°38 | 24°45 | 0°57 | 2°16 | 3°39 | n.a. | M12 |
| T 13 | 15 10 42 | 18°20'25 | 8♎32 | 1♉23 | 3°53 | 23°15 | 14°15 | 29°21 | 6°49 | 4°40 | 24°46 | 0°51 | 2°13 | 3°46 | n.a. | T 13 |
| W14 | 15 14 39 | 19°17'37 | 21°38 | 3°13 | 4°57 | 23°48 | 14°28 | 29°17 | 6°53 | 4°43 | 24°48 | 0°44 | 2°10 | 3°52 | n.a. | W14 |
| T 15 | 15 18 35 | 20°14'48 | 5♏ 5 | 5° 5 | 6° 2 | 24°22 | 14°41 | 29°13 | 6°56 | 4°45 | 24°49 | 0°37 | 2° 7 | 3°59 | n.a. | T 15 |
| F 16 | 15 22 32 | 21°11'59 | 18°51 | 6°59 | 7° 6 | 24°56 | 14°54 | 29° 9 | 6°59 | 4°47 | 24°51 | 0°32 | 2° 4 | 4° 6 | n.a. | F 16 |
| S 17 | 15 26 28 | 22° 9'09 | 2♐53 | 8°56 | 8°11 | 25°29 | 15° 7 | 29° 4 | 7° 3 | 4°49 | 24°52 | 0°28 | 2° 0 | 4°12 | n.a. | S 17 |
| S 18 | 15 30 25 | 23° 6'19 | 17° 6 | 10°55 | 9°16 | 26° 3 | 15°20 | 29° 0 | 7° 6 | 4°51 | 24°53 | 0°25 | 1°57 | 4°19 | n.a. | S 18 |
| M19 | 15 34 22 | 24° 3'29 | 1♑27 | 12°56 | 10°21 | 26°37 | 15°33 | 28°55 | 7°10 | 4°54 | 24°55 | 0°D25 | 1°54 | 4°26 | n.a. | M19 |
| T 20 | 15 38 18 | 25° 0'38 | 15°50 | 14°59 | 11°27 | 27°11 | 15°45 | 28°51 | 7°13 | 4°56 | 24°56 | 0°25 | 1°51 | 4°32 | n.a. | T 20 |
| W21 | 15 42 15 | 25°57'47 | 0♒12 | 17° 4 | 12°32 | 27°45 | 15°59 | 28°47 | 7°16 | 4°58 | 24°58 | 0°27 | 1°48 | 4°39 | n.a. | W21 |
| T 22 | 15 46 11 | 26°54'55 | 14°30 | 19°11 | 13°38 | 28°19 | 16°12 | 28°42 | 7°20 | 5° 0 | 24°59 | 0°28 | 1°45 | 4°46 | n.a. | T 22 |
| F 23 | 15 50 8 | 27°52'04 | 28°40 | 21°19 | 14°44 | 28°54 | 16°25 | 28°38 | 7°23 | 5° 2 | 25° 1 | 0°R28 | 1°41 | 4°52 | n.a. | F 23 |
| S 24 | 15 54 4 | 28°49'13 | 12♓42 | 23°28 | 15°50 | 29°28 | 16°38 | 28°33 | 7°26 | 5° 5 | 25° 2 | 0°28 | 1°38 | 4°59 | n.a. | S 24 |
| S 25 | 15 58 1 | 29°46'21 | 26°35 | 25°38 | 16°56 | 0♌ 3 | 16°51 | 28°29 | 7°30 | 5° 7 | 25° 3 | 0°25 | 1°35 | 5° 6 | n.a. | S 25 |
| M26 | 16 1 57 | 0♊43'30 | 10♈16 | 27°49 | 18° 3 | 0°37 | 17° 4 | 28°25 | 7°33 | 5° 9 | 25° 5 | 0°22 | 1°32 | 5°12 | n.a. | M26 |
| T 27 | 16 5 54 | 1°40'38 | 23°44 | 29°59 | 19° 9 | 1°12 | 17°17 | 28°20 | 7°36 | 5°11 | 25° 6 | 0°18 | 1°29 | 5°19 | n.a. | T 27 |
| W28 | 16 9 51 | 2°37'47 | 6♉59 | 2♊11 | 20°16 | 1°46 | 17°30 | 28°16 | 7°40 | 5°14 | 25° 8 | 0°14 | 1°26 | 5°26 | n.a. | W28 |
| T 29 | 16 13 47 | 3°34'55 | 20° 0 | 4°22 | 21°23 | 2°21 | 17°44 | 28°11 | 7°43 | 5°16 | 25° 9 | 0°10 | 1°22 | 5°32 | n.a. | T 29 |
| F 30 | 16 17 44 | 4°32'04 | 2♊47 | 6°32 | 22°30 | 2°56 | 17°57 | 28° 7 | 7°46 | 5°18 | 25°10 | 0° 7 | 1°19 | 5°39 | n.a. | F 30 |
| S 31 | 16 21 40 | 5♊29'12 | 15♊19 | 8♊42 | 23♈37 | 3♌31 | 18♊10 | 28♏ 3 | 7♉49 | 5♊20 | 25♉12 | 0♑ 5 | 1♑16 | 5♌46 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 13n58 | 19n 1 | 3n56 | 2n20 | 3s 3 | 4s52 | 1s31 | 24n21 | 1n43 | 22n25 | 0s 2 | 18s44 | 1n43 | 13n23 | 0s20 | 19n56 | 1s19 | 11n20 | 8s 0 | 23s42 | 23s40 | 17n21 | | n.a. |
| F 2 | 14 17 | 22 0 | 3 5 | 2 54 | 2 59 | 4 31 | 1 35 | 24 17 | 1 43 | 22 27 | 0 2 | 18 43 | 1 43 | 13 25 | 0 20 | 19 56 | 1 19 | 11 21 | 8 0 | 23 42 | 23 40 | 17 19 | | n.a. |
| S 3 | 14 35 | 23 47 | 2 6 | 3 30 | 2 54 | 4 9 | 1 38 | 24 11 | 1 42 | 22 29 | 0 1 | 18 42 | 1 43 | 13 26 | 0 20 | 19 57 | 1 19 | 11 21 | 8 0 | 23 42 | 23 41 | 17 17 | | n.a. |
| S 4 | 14 54 | 24 19 | 1 3 | 4 7 | 2 49 | 3 48 | 1 41 | 24 6 | 1 41 | 22 30 | 0 1 | 18 41 | 1 43 | 13 27 | 0 20 | 19 57 | 1 19 | 11 21 | 8 0 | 23 42 | 23 41 | 17 15 | | n.a. |
| M 5 | 15 12 | 23 39 | 0s 3 | 4 45 | 2 43 | 3 26 | 1 44 | 24 1 | 1 40 | 22 32 | 0 1 | 18 40 | 1 43 | 13 28 | 0 20 | 19 58 | 1 19 | 11 22 | 8 0 | 23 42 | 23 41 | 17 12 | | n.a. |
| T 6 | 15 30 | 21 53 | 1 7 | 5 25 | 2 37 | 3 3 | 1 47 | 23 55 | 1 39 | 22 34 | 0 1 | 18 39 | 1 43 | 13 29 | 0 20 | 19 58 | 1 19 | 11 22 | 8 0 | 23 42 | 23 41 | 17 10 | | n.a. |
| W 7 | 15 48 | 19 10 | 2 8 | 6 6 | 2 30 | 2 41 | 1 50 | 23 50 | 1 39 | 22 36 | 0 1 | 18 39 | 1 43 | 13 30 | 0 20 | 19 58 | 1 19 | 11 23 | 8 0 | 23 42 | 23 41 | 17 8 | | n.a. |
| T 8 | 16 5 | 15 41 | 3 3 | 6 48 | 2 22 | 2 18 | 1 53 | 23 44 | 1 38 | 22 37 | 0 1 | 18 38 | 1 43 | 13 32 | 0 20 | 19 59 | 1 19 | 11 23 | 8 0 | 23 42 | 23 41 | 17 6 | | n.a. |
| F 9 | 16 22 | 11 35 | 3 51 | 7 31 | 2 14 | 1 55 | 1 56 | 23 38 | 1 37 | 22 39 | 0 1 | 18 37 | 1 43 | 13 33 | 0 20 | 19 59 | 1 19 | 11 23 | 8 0 | 23 42 | 23 41 | 17 3 | | n.a. |
| S 10 | 16 39 | 7 0 | 4 28 | 8 15 | 2 6 | 1 31 | 1 58 | 23 32 | 1 36 | 22 41 | 0 1 | 18 36 | 1 43 | 13 34 | 0 20 | 20 0 | 1 19 | 11 24 | 8 0 | 23 42 | 23 41 | 17 1 | | n.a. |
| S 11 | 16 56 | 2 5 | 4 55 | 9 1 | 1 57 | 1 8 | 2 0 | 23 26 | 1 36 | 22 42 | 0 1 | 18 35 | 1 43 | 13 35 | 0 20 | 20 0 | 1 19 | 11 24 | 8 0 | 23 42 | 23 41 | 16 59 | | n.a. |
| M12 | 17 13 | 3s 1 | 5 8 | 9 47 | 1 48 | 0 44 | 2 2 | 23 20 | 1 35 | 22 44 | 0 0 | 18 34 | 1 43 | 13 36 | 0 20 | 20 1 | 1 19 | 11 25 | 7 59 | 23 42 | 23 41 | 16 56 | | n.a. |
| T 13 | 17 29 | 8 6 | 5 7 | 10 33 | 1 38 | 0 20 | 2 4 | 23 13 | 1 34 | 22 45 | 0 0 | 18 33 | 1 43 | 13 37 | 0 20 | 20 1 | 1 19 | 11 25 | 7 59 | 23 42 | 23 41 | 16 54 | | n.a. |
| W14 | 17 45 | 12 59 | 4 49 | 11 21 | 1 28 | 0n 4 | 2 6 | 23 7 | 1 33 | 22 47 | 0 0 | 18 32 | 1 43 | 13 38 | 0 20 | 20 1 | 1 19 | 11 25 | 7 59 | 23 42 | 23 41 | 16 52 | | n.a. |
| T 15 | 18 0 | 17 22 | 4 16 | 12 8 | 1 18 | 0 28 | 2 8 | 23 0 | 1 32 | 22 49 | 0 0 | 18 32 | 1 43 | 13 40 | 0 20 | 20 2 | 1 19 | 11 26 | 7 59 | 23 42 | 23 41 | 16 50 | | n.a. |
| F 16 | 18 15 | 20 56 | 3 27 | 12 56 | 1 7 | 0 52 | 2 10 | 22 53 | 1 32 | 22 50 | 0 0 | 18 31 | 1 43 | 13 41 | 0 20 | 20 2 | 1 19 | 11 26 | 7 59 | 23 42 | 23 41 | 16 47 | | n.a. |
| S 17 | 18 31 | 23 19 | 2 24 | 13 45 | 0 56 | 1 16 | 2 11 | 22 46 | 1 31 | 22 52 | 0n 0 | 18 30 | 1 43 | 13 42 | 0 20 | 20 3 | 1 19 | 11 27 | 7 59 | 23 42 | 23 41 | 16 45 | | n.a. |
| S 18 | 18 45 | 24 16 | 1 12 | 14 33 | 0 45 | 1 41 | 2 13 | 22 39 | 1 30 | 22 53 | 0 0 | 18 29 | 1 43 | 13 43 | 0 20 | 20 3 | 1 19 | 11 27 | 7 59 | 23 42 | 23 41 | 16 43 | | n.a. |
| M19 | 19 0 | 23 36 | 0n 6 | 15 21 | 0 34 | 2 6 | 2 14 | 22 32 | 1 29 | 22 55 | 0 0 | 18 28 | 1 43 | 13 44 | 0 20 | 20 3 | 1 19 | 11 27 | 7 59 | 23 42 | 23 41 | 16 40 | | n.a. |
| T 20 | 19 14 | 21 23 | 1 23 | 16 8 | 0 23 | 2 30 | 2 15 | 22 24 | 1 29 | 22 56 | 0 0 | 18 27 | 1 43 | 13 45 | 0 20 | 20 4 | 1 19 | 11 28 | 7 59 | 23 42 | 23 41 | 16 38 | | n.a. |
| W21 | 19 28 | 17 48 | 2 35 | 16 55 | 0 12 | 2 55 | 2 16 | 22 17 | 1 28 | 22 58 | 0 0 | 18 26 | 1 43 | 13 46 | 0 20 | 20 4 | 1 19 | 11 28 | 7 59 | 23 42 | 23 42 | 16 36 | | n.a. |
| T 22 | 19 41 | 13 12 | 3 38 | 17 42 | 0 1 | 3 20 | 2 17 | 22 9 | 1 27 | 22 59 | 0 1 | 18 25 | 1 43 | 13 47 | 0 20 | 20 5 | 1 19 | 11 28 | 7 59 | 23 42 | 23 42 | 16 33 | | n.a. |
| F 23 | 19 54 | 7 55 | 4 26 | 18 27 | 0n10 | 3 45 | 2 18 | 22 1 | 1 27 | 23 1 | 0 1 | 18 24 | 1 43 | 13 49 | 0 20 | 20 5 | 1 19 | 11 29 | 7 59 | 23 42 | 23 42 | 16 31 | | n.a. |
| S 24 | 20 7 | 2 17 | 4 58 | 19 10 | 0 20 | 4 10 | 2 19 | 21 53 | 1 26 | 23 2 | 0 1 | 18 23 | 1 43 | 13 50 | 0 20 | 20 6 | 1 19 | 11 29 | 7 59 | 23 42 | 23 42 | 16 29 | | n.a. |
| S 25 | 20 20 | 3n23 | 5 12 | 19 52 | 0 30 | 4 35 | 2 19 | 21 45 | 1 25 | 23 4 | 0 1 | 18 22 | 1 43 | 13 51 | 0 20 | 20 6 | 1 19 | 11 29 | 7 59 | 23 42 | 23 42 | 16 27 | | n.a. |
| M26 | 20 32 | 8 49 | 5 8 | 20 33 | 0 40 | 5 0 | 2 20 | 21 37 | 1 24 | 23 5 | 0 1 | 18 22 | 1 43 | 13 52 | 0 20 | 20 6 | 1 19 | 11 30 | 7 59 | 23 42 | 23 42 | 16 24 | | n.a. |
| T 27 | 20 44 | 13 45 | 4 47 | 21 11 | 0 50 | 5 25 | 2 20 | 21 28 | 1 24 | 23 6 | 0 1 | 18 21 | 1 42 | 13 53 | 0 20 | 20 7 | 1 19 | 11 30 | 7 59 | 23 42 | 23 42 | 16 22 | | n.a. |
| W28 | 20 55 | 17 56 | 4 11 | 21 47 | 0 59 | 5 50 | 2 21 | 21 20 | 1 23 | 23 8 | 0 1 | 18 20 | 1 42 | 13 54 | 0 20 | 20 7 | 1 19 | 11 31 | 7 59 | 23 42 | 23 42 | 16 20 | | n.a. |
| T 29 | 21 6 | 21 11 | 3 22 | 22 21 | 1 7 | 6 15 | 2 21 | 21 11 | 1 22 | 23 9 | 0 1 | 18 19 | 1 42 | 13 55 | 0 20 | 20 8 | 1 19 | 11 31 | 7 59 | 23 42 | 23 42 | 16 17 | | n.a. |
| F 30 | 21 17 | 23 18 | 2 24 | 22 52 | 1 15 | 6 40 | 2 21 | 21 2 | 1 21 | 23 10 | 0 1 | 18 18 | 1 42 | 13 56 | 0 20 | 20 8 | 1 19 | 11 31 | 7 59 | 23 42 | 23 42 | 16 15 | | n.a. |
| S 31 | 21n27 | 24n13 | 1n20 | 23n21 | 1n22 | 7n 5 | 2s21 | 20n53 | 1n21 | 23n12 | 0n 1 | 18s17 | 1n42 | 13n57 | 0s20 | 20n 8 | 1s19 | 11n32 | 7s59 | 23s42 | 23s42 | 16n13 | | n.a. |

Julian Day Number = 1694149.5, Delta T = 03h08m56s
Ecliptic obliquity = 23°42'15, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°05'43, Lahiri = - 4°58'42 Julian Calendar 1 May 75 BCE == Greg. Calendar 29 Apr. 075 BCE

The year -74 astronomical counting style corresponds to year 075 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 75 BCE
# geocentric

## JUNE 75 BCE (-74) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 25 37 | 6♊26'21 | 27♊37 | 10♊50 | 24♈44 | 4♌ 6 | 18♊23 | 27°R58 | 7♉52 | 5♊22 | 25♉13 | 0°D 4 | 1♑13 | 5♌52 | n.a. | S 1 |
| M 2 | 16 29 33 | 7°23'29 | 9♋44 | 12°58 | 25°51 | 4°41 | 18°37 | 27♏54 | 7°56 | 5°25 | 25°15 | 0♑ 4 | 1°10 | 5°59 | n.a. | M 2 |
| T 3 | 16 33 30 | 8°20'37 | 21°41 | 15° 4 | 26°59 | 5°16 | 18°50 | 27°50 | 7°59 | 5°27 | 25°16 | 0° 5 | 1° 6 | 6° 6 | n.a. | T 3 |
| W 4 | 16 37 27 | 9°17'45 | 3♌32 | 17° 9 | 28° 6 | 5°52 | 19° 3 | 27°45 | 8° 2 | 5°29 | 25°17 | 0° 7 | 1° 3 | 6°12 | n.a. | W 4 |
| T 5 | 16 41 23 | 10°14'53 | 15°22 | 19°13 | 29°14 | 6°27 | 19°17 | 27°41 | 8° 5 | 5°31 | 25°19 | 0° 8 | 1° 0 | 6°19 | n.a. | T 5 |
| F 6 | 16 45 20 | 11°12'00 | 27°13 | 21°14 | 0♉22 | 7° 2 | 19°30 | 27°37 | 8° 8 | 5°34 | 25°20 | 0° 9 | 0°57 | 6°26 | n.a. | F 6 |
| S 7 | 16 49 16 | 12° 9'08 | 9♍12 | 23°14 | 1°30 | 7°38 | 19°44 | 27°33 | 8°11 | 5°36 | 25°22 | 0°R10 | 0°54 | 6°33 | n.a. | S 7 |
| S 8 | 16 53 13 | 13° 6'15 | 21°22 | 25°12 | 2°38 | 8°13 | 19°57 | 27°29 | 8°14 | 5°38 | 25°23 | 0°10 | 0°51 | 6°39 | n.a. | S 8 |
| M 9 | 16 57 9 | 14° 3'22 | 3♎48 | 27° 9 | 3°46 | 8°49 | 20°10 | 27°24 | 8°17 | 5°40 | 25°24 | 0° 9 | 0°47 | 6°46 | n.a. | M 9 |
| T 10 | 17 1 6 | 15° 0'29 | 16°34 | 29° 3 | 4°54 | 9°25 | 20°24 | 27°20 | 8°20 | 5°43 | 25°26 | 0° 7 | 0°44 | 6°53 | n.a. | T 10 |
| W11 | 17 5 2 | 15°57'36 | 29°43 | 0♋56 | 6° 2 | 10° 1 | 20°37 | 27°16 | 8°23 | 5°45 | 25°27 | 0° 6 | 0°41 | 6°59 | n.a. | W11 |
| T 12 | 17 8 59 | 16°54'44 | 13♏16 | 2°46 | 7°11 | 10°36 | 20°51 | 27°12 | 8°26 | 5°47 | 25°28 | 0° 4 | 0°38 | 7° 6 | n.a. | T 12 |
| F 13 | 17 12 56 | 17°51'51 | 27°13 | 4°35 | 8°19 | 11°12 | 21° 4 | 27° 8 | 8°29 | 5°49 | 25°30 | 0° 2 | 0°35 | 7°13 | n.a. | F 13 |
| S 14 | 17 16 52 | 18°48'59 | 11♐31 | 6°22 | 9°28 | 11°48 | 21°17 | 27° 4 | 8°32 | 5°51 | 25°31 | 0° 1 | 0°32 | 7°19 | n.a. | S 14 |
| S 15 | 17 20 49 | 19°46'08 | 26° 6 | 8° 7 | 10°37 | 12°25 | 21°31 | 27° 0 | 8°35 | 5°54 | 25°32 | 0°D 1 | 0°28 | 7°26 | n.a. | S 15 |
| M16 | 17 24 45 | 20°43'16 | 10♑51 | 9°50 | 11°46 | 13° 1 | 21°44 | 26°57 | 8°37 | 5°56 | 25°34 | 0° 1 | 0°25 | 7°33 | n.a. | M16 |
| T 17 | 17 28 42 | 21°40'26 | 25°40 | 11°31 | 12°54 | 13°37 | 21°58 | 26°53 | 8°40 | 5°58 | 25°35 | 0° 2 | 0°22 | 7°39 | n.a. | T 17 |
| W18 | 17 32 38 | 22°37'36 | 10♒25 | 13°10 | 14° 4 | 14°13 | 22°11 | 26°49 | 8°43 | 6° 0 | 25°36 | 0° 2 | 0°19 | 7°46 | n.a. | W18 |
| T 19 | 17 36 35 | 23°34'46 | 25° 0 | 14°47 | 15°13 | 14°50 | 22°24 | 26°45 | 8°46 | 6° 2 | 25°37 | 0° 3 | 0°16 | 7°53 | n.a. | T 19 |
| F 20 | 17 40 32 | 24°31'58 | 9♓21 | 16°22 | 16°22 | 15°26 | 22°38 | 26°42 | 8°48 | 6° 4 | 25°39 | 0° 3 | 0°12 | 7°59 | n.a. | F 20 |
| S 21 | 17 44 28 | 25°29'10 | 23°26 | 17°56 | 17°31 | 16° 3 | 22°51 | 26°38 | 8°51 | 6° 7 | 25°40 | 0°R 3 | 0° 9 | 8° 6 | n.a. | S 21 |
| S 22 | 17 48 25 | 26°26'23 | 7♈12 | 19°27 | 18°41 | 16°39 | 23° 5 | 26°35 | 8°54 | 6° 9 | 25°41 | 0° 3 | 0° 6 | 8°13 | n.a. | S 22 |
| M23 | 17 52 21 | 27°23'38 | 20°40 | 20°57 | 19°50 | 17°16 | 23°18 | 26°31 | 8°56 | 6°11 | 25°42 | 0° 3 | 0° 3 | 8°19 | n.a. | M23 |
| T 24 | 17 56 18 | 28°20'53 | 3♉51 | 22°24 | 21° 0 | 17°52 | 23°32 | 26°28 | 8°59 | 6°13 | 25°44 | 0° 3 | 29♐59 | 8°26 | n.a. | T 24 |
| W25 | 18 0 14 | 29°18'09 | 16°45 | 23°50 | 22°10 | 18°29 | 23°45 | 26°24 | 9° 1 | 6°15 | 25°45 | 0° 3 | 29°57 | 8°33 | n.a. | W25 |
| T 26 | 18 4 11 | 0♋15'26 | 29°25 | 25°13 | 23°20 | 19° 6 | 23°58 | 26°21 | 9° 4 | 6°17 | 25°46 | 0°D 3 | 29°53 | 8°39 | n.a. | T 26 |
| F 27 | 18 8 7 | 1°12'44 | 11♊52 | 26°35 | 24°29 | 19°43 | 24°12 | 26°18 | 9° 6 | 6°19 | 25°47 | 0° 3 | 29°50 | 8°46 | n.a. | F 27 |
| S 28 | 18 12 4 | 2°10'03 | 24° 8 | 27°54 | 25°39 | 20°20 | 24°25 | 26°15 | 9° 9 | 6°21 | 25°48 | 0°R 3 | 29°47 | 8°53 | n.a. | S 28 |
| S 29 | 18 16 1 | 3° 7'23 | 6♋14 | 29°11 | 26°50 | 20°57 | 24°38 | 26°12 | 9°11 | 6°23 | 25°50 | 0° 3 | 29°44 | 8°59 | n.a. | S 29 |
| M30 | 18 19 57 | 4♋ 4'44 | 18♋13 | 0♌26 | 28♉ 0 | 21♌34 | 24♊52 | 26♏ 9 | 9♉14 | 6♊25 | 25♉51 | 0♑ 3 | 29♐41 | 9♌ 6 | n.a. | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21n37 | 23n54 | 0n13 | 23n47 | 1n29 | 7n30 | 2s21 | 20n44 | 1n20 | 23n13 | 0n 2 | 18s16 | 1n42 | 13n58 | 0s20 | 20n 9 | 1s19 | 11n32 | 7s59 | 23s42 | 23s42 | 16n10 | | n.a. |
| M 2 | 21 47 | 22 28 | 0s53 | 24 10 | 1 34 | 7 55 | 2 20 | 20 35 | 1 19 | 23 14 | 0 2 | 18 15 | 1 42 | 13 59 | 0 20 | 20 9 | 1 19 | 11 32 | 7 59 | 23 42 | 23 42 | 16 8 | | n.a. |
| T 3 | 21 56 | 20 1 | 1 56 | 24 30 | 1 39 | 8 20 | 2 20 | 20 26 | 1 18 | 23 16 | 0 2 | 18 14 | 1 42 | 14 0 | 0 20 | 20 10 | 1 19 | 11 33 | 7 59 | 23 42 | 23 42 | 16 6 | | n.a. |
| W 4 | 22 5 | 16 45 | 2 54 | 24 48 | 1 44 | 8 45 | 2 19 | 20 16 | 1 18 | 23 17 | 0 2 | 18 14 | 1 42 | 14 1 | 0 20 | 20 10 | 1 19 | 11 33 | 7 59 | 23 42 | 23 42 | 16 3 | | n.a. |
| T 5 | 22 14 | 12 50 | 3 45 | 25 3 | 1 48 | 9 10 | 2 19 | 20 7 | 1 17 | 23 18 | 0 2 | 18 13 | 1 42 | 14 2 | 0 20 | 20 10 | 1 19 | 11 33 | 7 59 | 23 42 | 23 42 | 16 1 | | n.a. |
| F 6 | 22 22 | 8 25 | 4 26 | 25 15 | 1 51 | 9 34 | 2 18 | 19 57 | 1 16 | 23 19 | 0 2 | 18 12 | 1 41 | 14 3 | 0 20 | 20 11 | 1 19 | 11 34 | 7 59 | 23 42 | 23 42 | 15 58 | | n.a. |
| S 7 | 22 30 | 3 39 | 4 55 | 25 24 | 1 53 | 9 58 | 2 18 | 19 47 | 1 16 | 23 20 | 0 2 | 18 11 | 1 41 | 14 4 | 0 20 | 20 11 | 1 19 | 11 34 | 7 59 | 23 42 | 23 42 | 15 56 | | n.a. |
| S 8 | 22 37 | 1s19 | 5 12 | 25 31 | 1 54 | 10 23 | 2 17 | 19 37 | 1 15 | 23 21 | 0 2 | 18 10 | 1 41 | 14 5 | 0 20 | 20 12 | 1 19 | 11 34 | 7 59 | 23 42 | 23 42 | 15 54 | | n.a. |
| M 9 | 22 44 | 6 20 | 5 16 | 25 36 | 1 55 | 10 47 | 2 16 | 19 27 | 1 14 | 23 23 | 0 2 | 18 9 | 1 41 | 14 6 | 0 20 | 20 12 | 1 19 | 11 34 | 7 59 | 23 42 | 23 42 | 15 51 | | n.a. |
| T 10 | 22 51 | 11 14 | 5 3 | 25 38 | 1 56 | 11 11 | 2 15 | 19 16 | 1 13 | 23 24 | 0 3 | 18 9 | 1 41 | 14 7 | 0 20 | 20 12 | 1 19 | 11 35 | 7 59 | 23 42 | 23 42 | 15 49 | | n.a. |
| W11 | 22 57 | 15 46 | 4 35 | 25 37 | 1 55 | 11 35 | 2 14 | 19 6 | 1 13 | 23 25 | 0 3 | 18 8 | 1 41 | 14 8 | 0 20 | 20 13 | 1 19 | 11 35 | 7 59 | 23 42 | 23 42 | 15 47 | | n.a. |
| T 12 | 23 3 | 19 39 | 3 51 | 25 35 | 1 54 | 11 58 | 2 13 | 18 55 | 1 12 | 23 26 | 0 3 | 18 7 | 1 41 | 14 9 | 0 20 | 20 13 | 1 19 | 11 35 | 7 59 | 23 42 | 23 42 | 15 44 | | n.a. |
| F 13 | 23 9 | 22 32 | 2 52 | 25 30 | 1 53 | 12 22 | 2 11 | 18 45 | 1 11 | 23 27 | 0 3 | 18 6 | 1 41 | 14 10 | 0 20 | 20 14 | 1 19 | 11 36 | 7 59 | 23 42 | 23 42 | 15 42 | | n.a. |
| S 14 | 23 14 | 24 5 | 1 41 | 25 23 | 1 50 | 12 45 | 2 10 | 18 34 | 1 11 | 23 28 | 0 3 | 18 5 | 1 40 | 14 11 | 0 20 | 20 14 | 1 19 | 11 36 | 7 59 | 23 42 | 23 42 | 15 40 | | n.a. |
| S 15 | 23 18 | 24 0 | 0 22 | 25 15 | 1 48 | 13 8 | 2 8 | 18 23 | 1 10 | 23 29 | 0 3 | 18 5 | 1 40 | 14 12 | 0 20 | 20 14 | 1 19 | 11 36 | 7 59 | 23 42 | 23 42 | 15 37 | | n.a. |
| M16 | 23 23 | 22 16 | 1n 0 | 25 4 | 1 44 | 13 31 | 2 7 | 18 12 | 1 9 | 23 30 | 0 3 | 18 4 | 1 40 | 14 13 | 0 20 | 20 15 | 1 19 | 11 36 | 7 59 | 23 42 | 23 42 | 15 35 | | n.a. |
| T 17 | 23 26 | 19 0 | 2 18 | 24 52 | 1 40 | 13 54 | 2 5 | 18 1 | 1 9 | 23 31 | 0 3 | 18 3 | 1 40 | 14 14 | 0 20 | 20 15 | 1 19 | 11 37 | 7 59 | 23 42 | 23 42 | 15 32 | | n.a. |
| W18 | 23 30 | 14 31 | 3 26 | 24 38 | 1 36 | 14 16 | 2 4 | 17 49 | 1 8 | 23 32 | 0 3 | 18 2 | 1 40 | 14 15 | 0 20 | 20 15 | 1 19 | 11 37 | 7 59 | 23 42 | 23 42 | 15 30 | | n.a. |
| T 19 | 23 33 | 9 15 | 4 20 | 24 23 | 1 31 | 14 38 | 2 2 | 17 38 | 1 7 | 23 32 | 0 3 | 18 2 | 1 40 | 14 15 | 0 20 | 20 16 | 1 19 | 11 37 | 7 59 | 23 42 | 23 42 | 15 28 | | n.a. |
| F 20 | 23 35 | 3 34 | 4 57 | 24 6 | 1 25 | 15 0 | 2 0 | 17 27 | 1 6 | 23 33 | 0 4 | 18 1 | 1 40 | 14 16 | 0 20 | 20 16 | 1 19 | 11 38 | 7 59 | 23 42 | 23 42 | 15 25 | | n.a. |
| S 21 | 23 38 | 2n11 | 5 15 | 23 48 | 1 20 | 15 21 | 1 58 | 17 15 | 1 6 | 23 34 | 0 4 | 18 0 | 1 39 | 14 17 | 0 20 | 20 17 | 1 19 | 11 38 | 7 59 | 23 42 | 23 42 | 15 23 | | n.a. |
| S 22 | 23 39 | 7 42 | 5 15 | 23 29 | 1 13 | 15 43 | 1 56 | 17 3 | 1 5 | 23 35 | 0 4 | 18 0 | 1 39 | 14 18 | 0 20 | 20 17 | 1 19 | 11 38 | 7 59 | 23 42 | 23 42 | 15 21 | | n.a. |
| M23 | 23 41 | 12 44 | 4 57 | 23 9 | 1 6 | 16 3 | 1 54 | 16 51 | 1 4 | 23 36 | 0 4 | 17 59 | 1 39 | 14 19 | 0 20 | 20 17 | 1 19 | 11 38 | 7 59 | 23 42 | 23 42 | 15 18 | | n.a. |
| T 24 | 23 42 | 17 4 | 4 24 | 22 47 | 0 59 | 16 24 | 1 52 | 16 39 | 1 4 | 23 37 | 0 4 | 17 58 | 1 39 | 14 20 | 0 20 | 20 18 | 1 19 | 11 38 | 7 59 | 23 42 | 23 42 | 15 16 | | n.a. |
| W25 | 23 42 | 20 30 | 3 38 | 22 25 | 0 52 | 16 44 | 1 50 | 16 27 | 1 3 | 23 37 | 0 4 | 17 58 | 1 39 | 14 21 | 0 20 | 20 18 | 1 19 | 11 39 | 7 59 | 23 42 | 23 42 | 15 13 | | n.a. |
| T 26 | 23 42 | 22 53 | 2 42 | 22 2 | 0 44 | 17 4 | 1 48 | 16 15 | 1 2 | 23 38 | 0 4 | 17 57 | 1 39 | 14 21 | 0 20 | 20 18 | 1 19 | 11 39 | 7 59 | 23 42 | 23 42 | 15 11 | | n.a. |
| F 27 | 23 42 | 24 6 | 1 39 | 21 39 | 0 35 | 17 23 | 1 46 | 16 2 | 1 2 | 23 39 | 0 4 | 17 57 | 1 38 | 14 22 | 0 20 | 20 19 | 1 19 | 11 39 | 7 59 | 23 42 | 23 42 | 15 9 | | n.a. |
| S 28 | 23 41 | 24 7 | 0 33 | 21 14 | 0 26 | 17 43 | 1 44 | 15 50 | 1 1 | 23 39 | 0 4 | 17 56 | 1 38 | 14 23 | 0 20 | 20 19 | 1 19 | 11 39 | 7 59 | 23 42 | 23 42 | 15 6 | | n.a. |
| S 29 | 23 40 | 22 59 | 0s34 | 20 50 | 0 17 | 18 1 | 1 41 | 15 37 | 1 0 | 23 40 | 0 4 | 17 55 | 1 38 | 14 24 | 0 20 | 20 19 | 1 19 | 11 40 | 7 59 | 23 42 | 23 42 | 15 4 | | n.a. |
| M30 | 23n38 | 20n49 | 1s39 | 20n24 | 0n 8 | 18n20 | 1s39 | 15n24 | 0n59 | 23n41 | 0n 5 | 17s55 | 1n38 | 14n24 | 0s20 | 20n20 | 1s19 | 11n40 | 7s59 | 23s42 | 23s42 | 15n 1 | | n.a. |

Julian Day Number = 1694180.5, Delta T = 03h08m55s
Ecliptic obliquity = 23°42'15, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°05'39, Lahiri = - 4°58'38 Julian Calendar 1 June 75 BCE == Greg. Calendar 30 May 075 BCE


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# ASTRODIENST EPHEMERIS for the year 75 BCE
# geocentric

## JULY 75 BCE (-74) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 23 54 | 5♋ 2'06 | 0♌ 6 | 1♌39 | 29♉10 | 22♌12 | 25♊ 5 | 26°R 6 | 9♉16 | 6♊27 | 25♉52 | 0°R 2 | 29♐38 | 9♌13 | n.a. | T 1 |
| W 2 | 18 27 50 | 5°59'28 | 11°55 | 2°50 | 0♊20 | 22°49 | 25°18 | 26♏ 3 | 9°18 | 6°29 | 25°53 | 0♑ 2 | 29°34 | 9°19 | n.a. | W 2 |
| T 3 | 18 31 47 | 6°56'51 | 23°44 | 3°58 | 1°31 | 23°26 | 25°32 | 26° 0 | 9°20 | 6°31 | 25°54 | 0° 1 | 29°31 | 9°26 | n.a. | T 3 |
| F 4 | 18 35 43 | 7°54'15 | 5♍36 | 5° 4 | 2°41 | 24° 4 | 25°45 | 25°57 | 9°23 | 6°33 | 25°55 | 29♐59 | 29°28 | 9°33 | n.a. | F 4 |
| S 5 | 18 39 40 | 8°51'40 | 17°34 | 6° 7 | 3°52 | 24°41 | 25°58 | 25°55 | 9°25 | 6°35 | 25°56 | 29°59 | 29°25 | 9°39 | n.a. | S 5 |
| S 6 | 18 43 36 | 9°49'06 | 29°43 | 7° 7 | 5° 2 | 25°19 | 26°11 | 25°52 | 9°27 | 6°37 | 25°58 | 29°58 | 29°22 | 9°46 | n.a. | S 6 |
| M 7 | 18 47 33 | 10°46'32 | 12♎ 6 | 8° 5 | 6°13 | 25°56 | 26°25 | 25°50 | 9°29 | 6°39 | 25°59 | 29°D58 | 29°18 | 9°53 | n.a. | M 7 |
| T 8 | 18 51 30 | 11°44'00 | 24°48 | 8°59 | 7°24 | 26°34 | 26°38 | 25°47 | 9°31 | 6°41 | 26° 0 | 29°59 | 29°15 | 9°59 | n.a. | T 8 |
| W 9 | 18 55 26 | 12°41'28 | 7♏53 | 9°51 | 8°35 | 27°12 | 26°51 | 25°45 | 9°33 | 6°43 | 26° 1 | 29°59 | 29°12 | 10° 6 | n.a. | W 9 |
| T 10 | 18 59 23 | 13°38'57 | 21°23 | 10°39 | 9°46 | 27°50 | 27° 4 | 25°43 | 9°35 | 6°45 | 26° 2 | 0♑ 0 | 29° 9 | 10°13 | n.a. | T 10 |
| F 11 | 19 3 19 | 14°36'27 | 5♐20 | 11°24 | 10°57 | 28°28 | 27°17 | 25°40 | 9°37 | 6°47 | 26° 3 | 0° 1 | 29° 6 | 10°20 | n.a. | F 11 |
| S 12 | 19 7 16 | 15°33'58 | 19°43 | 12° 5 | 12° 8 | 29° 6 | 27°30 | 25°38 | 9°39 | 6°48 | 26° 4 | 0° 2 | 29° 3 | 10°26 | n.a. | S 12 |
| S 13 | 19 11 12 | 16°31'31 | 4♑28 | 12°43 | 13°19 | 29°44 | 27°43 | 25°36 | 9°41 | 6°50 | 26° 5 | 0°R 2 | 28°59 | 10°33 | n.a. | S 13 |
| M14 | 19 15 9 | 17°29'05 | 19°28 | 13°17 | 14°30 | 0♍22 | 27°56 | 25°34 | 9°42 | 6°52 | 26° 6 | 0° 2 | 28°56 | 10°40 | n.a. | M14 |
| T 15 | 19 19 5 | 18°26'39 | 4♒37 | 13°46 | 15°41 | 1° 0 | 28° 9 | 25°33 | 9°44 | 6°54 | 26° 7 | 0° 0 | 28°53 | 10°46 | n.a. | T 15 |
| W16 | 19 23 2 | 19°24'16 | 19°43 | 14°11 | 16°53 | 1°38 | 28°22 | 25°31 | 9°46 | 6°56 | 26° 8 | 29♐58 | 28°50 | 10°53 | n.a. | W16 |
| T 17 | 19 26 59 | 20°21'53 | 4♓39 | 14°32 | 18° 4 | 2°16 | 28°35 | 25°29 | 9°47 | 6°57 | 26° 8 | 29°55 | 28°47 | 11° 0 | n.a. | T 17 |
| F 18 | 19 30 55 | 21°19'33 | 19°17 | 14°47 | 19°16 | 2°55 | 28°48 | 25°28 | 9°49 | 6°59 | 26° 9 | 29°53 | 28°44 | 11° 6 | n.a. | F 18 |
| S 19 | 19 34 52 | 22°17'14 | 3♈32 | 14°58 | 20°27 | 3°33 | 29° 1 | 25°26 | 9°51 | 7° 1 | 26°10 | 29°51 | 28°40 | 11°13 | n.a. | S 19 |
| S 20 | 19 38 48 | 23°14'57 | 17°21 | 15°R 3 | 21°39 | 4°12 | 29°14 | 25°25 | 9°52 | 7° 3 | 26°11 | 29°D50 | 28°37 | 11°20 | n.a. | S 20 |
| M21 | 19 42 45 | 24°12'41 | 0♉46 | 15° 3 | 22°51 | 4°50 | 29°26 | 25°24 | 9°54 | 7° 4 | 26°12 | 29°50 | 28°34 | 11°26 | n.a. | M21 |
| T 22 | 19 46 41 | 25°10'28 | 13°48 | 14°58 | 24° 3 | 5°29 | 29°39 | 25°22 | 9°55 | 7° 6 | 26°13 | 29°51 | 28°31 | 11°33 | n.a. | T 22 |
| W23 | 19 50 38 | 26° 8'16 | 26°30 | 14°46 | 25°15 | 6° 7 | 29°52 | 25°21 | 9°56 | 7° 7 | 26°14 | 29°53 | 28°28 | 11°40 | n.a. | W23 |
| T 24 | 19 54 34 | 27° 6'06 | 8♊56 | 14°29 | 26°27 | 6°46 | 0♋ 4 | 25°20 | 9°58 | 7° 9 | 26°14 | 29°54 | 28°24 | 11°46 | n.a. | T 24 |
| F 25 | 19 58 31 | 28° 3'58 | 21° 9 | 14° 6 | 27°39 | 7°25 | 0°17 | 25°20 | 9°59 | 7°11 | 26°15 | 29°55 | 28°21 | 11°53 | n.a. | F 25 |
| S 26 | 20 2 28 | 29° 1'51 | 3♋12 | 13°38 | 28°51 | 8° 4 | 0°30 | 25°19 | 10° 0 | 7°12 | 26°16 | 29°R56 | 28°18 | 12° 0 | n.a. | S 26 |
| S 27 | 20 6 24 | 29°59'47 | 15° 9 | 13° 3 | 0♋ 3 | 8°43 | 0°42 | 25°18 | 10° 2 | 7°14 | 26°17 | 29°55 | 28°15 | 12° 6 | n.a. | S 27 |
| M28 | 20 10 21 | 0♌57'44 | 27° 1 | 12°24 | 1°15 | 9°22 | 0°55 | 25°17 | 10° 3 | 7°15 | 26°17 | 29°52 | 28°12 | 12°13 | n.a. | M28 |
| T 29 | 20 14 17 | 1°55'42 | 8♌50 | 11°40 | 2°28 | 10° 1 | 1° 7 | 25°17 | 10° 4 | 7°17 | 26°18 | 29°48 | 28° 9 | 12°20 | n.a. | T 29 |
| W30 | 20 18 14 | 2°53'42 | 20°40 | 10°51 | 3°40 | 10°40 | 1°19 | 25°16 | 10° 5 | 7°18 | 26°19 | 29°42 | 28° 5 | 12°26 | n.a. | W30 |
| T 31 | 20 22 10 | 3♌51'44 | 2♍30 | 9♌59 | 4♋52 | 11♍19 | 1♋32 | 25♏16 | 10♉ 6 | 7♊19 | 26♉19 | 29♐36 | 28♐ 2 | 12♌33 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| T 1 | 23n36 | 17n46 | 2s39 | 19n59 | 0s 2 | 18n37 | 1s36 | 15n11 | 0n59 | 23n41 | 0n 5 | 17s54 | 1n38 | 14n25 | 0s20 | 20n20 | 1s19 | 11n40 | 8s 0 | 23s42 | 23s42 | 14n59 | | | n.a. |
| W 2 | 23 34 | 14 1 | 3 32 | 19 33 | 0 12 | 18 55 | 1 34 | 14 58 | 0 58 | 23 42 | 0 5 | 17 54 | 1 38 | 14 26 | 0 20 | 20 20 | 1 19 | 11 40 | 8 0 | 23 42 | 23 42 | 14 57 | | | n.a. |
| T 3 | 23 31 | 9 44 | 4 16 | 19 7 | 0 22 | 19 12 | 1 31 | 14 45 | 0 57 | 23 43 | 0 5 | 17 53 | 1 37 | 14 27 | 0 20 | 20 21 | 1 19 | 11 40 | 8 0 | 23 42 | 23 42 | 14 54 | | | n.a. |
| F 4 | 23 28 | 5 5 | 4 49 | 18 41 | 0 33 | 19 28 | 1 29 | 14 32 | 0 57 | 23 43 | 0 5 | 17 53 | 1 37 | 14 27 | 0 20 | 20 21 | 1 19 | 11 41 | 8 0 | 23 42 | 23 42 | 14 52 | | | n.a. |
| S 5 | 23 24 | 0 13 | 5 10 | 18 15 | 0 44 | 19 45 | 1 26 | 14 19 | 0 56 | 23 44 | 0 5 | 17 53 | 1 37 | 14 28 | 0 20 | 20 21 | 1 19 | 11 41 | 8 0 | 23 42 | 23 42 | 14 49 | | | n.a. |
| S 6 | 23 20 | 4s43 | 5 17 | 17 49 | 0 55 | 20 0 | 1 24 | 14 5 | 0 55 | 23 44 | 0 5 | 17 52 | 1 37 | 14 29 | 0 20 | 20 22 | 1 19 | 11 41 | 8 0 | 23 42 | 23 42 | 14 47 | | | n.a. |
| M 7 | 23 16 | 9 35 | 5 10 | 17 23 | 1 6 | 20 15 | 1 21 | 13 52 | 0 55 | 23 45 | 0 5 | 17 52 | 1 37 | 14 29 | 0 20 | 20 22 | 1 19 | 11 41 | 8 0 | 23 42 | 23 42 | 14 44 | | | n.a. |
| T 8 | 23 11 | 14 10 | 4 48 | 16 58 | 1 17 | 20 30 | 1 18 | 13 38 | 0 54 | 23 45 | 0 5 | 17 51 | 1 36 | 14 30 | 0 20 | 20 22 | 1 19 | 11 41 | 8 0 | 23 42 | 23 42 | 14 42 | | | n.a. |
| W 9 | 23 5 | 18 14 | 4 10 | 16 33 | 1 29 | 20 44 | 1 16 | 13 25 | 0 53 | 23 45 | 0 6 | 17 51 | 1 36 | 14 31 | 0 20 | 20 23 | 1 19 | 11 41 | 8 0 | 23 42 | 23 42 | 14 40 | | | n.a. |
| T 10 | 23 0 | 21 29 | 3 18 | 16 9 | 1 41 | 20 58 | 1 13 | 13 11 | 0 53 | 23 46 | 0 6 | 17 51 | 1 36 | 14 31 | 0 20 | 20 23 | 1 19 | 11 42 | 8 0 | 23 42 | 23 42 | 14 37 | | | n.a. |
| F 11 | 22 54 | 23 36 | 2 13 | 15 45 | 1 52 | 21 11 | 1 10 | 12 57 | 0 52 | 23 46 | 0 6 | 17 50 | 1 36 | 14 32 | 0 20 | 20 23 | 1 19 | 11 42 | 8 0 | 23 42 | 23 42 | 14 35 | | | n.a. |
| S 12 | 22 47 | 24 15 | 0 57 | 15 22 | 2 4 | 21 23 | 1 7 | 12 43 | 0 51 | 23 47 | 0 6 | 17 50 | 1 36 | 14 32 | 0 20 | 20 24 | 1 19 | 11 42 | 8 0 | 23 42 | 23 42 | 14 32 | | | n.a. |
| S 13 | 22 40 | 23 13 | 0n24 | 15 0 | 2 16 | 21 35 | 1 4 | 12 29 | 0 50 | 23 47 | 0 6 | 17 50 | 1 35 | 14 33 | 0 20 | 20 24 | 1 19 | 11 42 | 8 0 | 23 42 | 23 42 | 14 30 | | | n.a. |
| M14 | 22 33 | 20 32 | 1 45 | 14 39 | 2 28 | 21 47 | 1 1 | 12 15 | 0 50 | 23 47 | 0 6 | 17 49 | 1 35 | 14 34 | 0 20 | 20 24 | 1 19 | 11 42 | 8 1 | 23 42 | 23 42 | 14 27 | | | n.a. |
| T 15 | 22 25 | 16 25 | 3 0 | 14 19 | 2 40 | 21 57 | 0 58 | 12 0 | 0 49 | 23 48 | 0 6 | 17 49 | 1 35 | 14 34 | 0 20 | 20 24 | 1 19 | 11 42 | 8 1 | 23 42 | 23 42 | 14 25 | | | n.a. |
| W16 | 22 17 | 11 15 | 4 1 | 14 1 | 2 52 | 22 8 | 0 56 | 11 46 | 0 48 | 23 48 | 0 6 | 17 49 | 1 35 | 14 35 | 0 20 | 20 25 | 1 19 | 11 42 | 8 1 | 23 42 | 23 42 | 14 23 | | | n.a. |
| T 17 | 22 8 | 5 29 | 4 45 | 13 44 | 3 3 | 22 17 | 0 53 | 11 31 | 0 48 | 23 48 | 0 6 | 17 49 | 1 35 | 14 35 | 0 20 | 20 25 | 1 19 | 11 42 | 8 1 | 23 42 | 23 42 | 14 20 | | | n.a. |
| F 18 | 22 0 | 0n27 | 5 10 | 13 29 | 3 14 | 22 26 | 0 50 | 11 17 | 0 47 | 23 48 | 0 6 | 17 49 | 1 34 | 14 36 | 0 20 | 20 25 | 1 19 | 11 43 | 8 1 | 23 42 | 23 42 | 14 18 | | | n.a. |
| S 19 | 21 50 | 6 13 | 5 14 | 13 15 | 3 25 | 22 35 | 0 47 | 11 2 | 0 46 | 23 49 | 0 7 | 17 49 | 1 34 | 14 36 | 0 20 | 20 25 | 1 19 | 11 43 | 8 1 | 23 42 | 23 42 | 14 15 | | | n.a. |
| S 20 | 21 41 | 11 30 | 5 1 | 13 4 | 3 36 | 22 43 | 0 44 | 10 47 | 0 46 | 23 49 | 0 7 | 17 48 | 1 34 | 14 37 | 0 20 | 20 26 | 1 19 | 11 43 | 8 1 | 23 42 | 23 42 | 14 13 | | | n.a. |
| M21 | 21 31 | 16 5 | 4 30 | 12 54 | 3 46 | 22 50 | 0 41 | 10 32 | 0 45 | 23 49 | 0 7 | 17 48 | 1 34 | 14 37 | 0 20 | 20 26 | 1 19 | 11 43 | 8 1 | 23 42 | 23 42 | 14 10 | | | n.a. |
| T 22 | 21 20 | 19 46 | 3 47 | 12 47 | 3 55 | 22 56 | 0 38 | 10 17 | 0 44 | 23 49 | 0 7 | 17 48 | 1 34 | 14 38 | 0 20 | 20 26 | 1 19 | 11 43 | 8 1 | 23 42 | 23 42 | 14 8 | | | n.a. |
| W23 | 21 9 | 22 24 | 2 54 | 12 42 | 4 4 | 23 2 | 0 35 | 10 2 | 0 44 | 23 49 | 0 7 | 17 48 | 1 33 | 14 38 | 0 20 | 20 26 | 1 19 | 11 43 | 8 1 | 23 42 | 23 42 | 14 5 | | | n.a. |
| T 24 | 20 58 | 23 53 | 1 53 | 12 39 | 4 11 | 23 8 | 0 32 | 9 47 | 0 43 | 23 49 | 0 7 | 17 48 | 1 33 | 14 38 | 0 21 | 20 27 | 1 19 | 11 43 | 8 2 | 23 42 | 23 42 | 14 3 | | | n.a. |
| F 25 | 20 47 | 24 12 | 0 48 | 12 40 | 4 18 | 23 12 | 0 29 | 9 32 | 0 42 | 23 49 | 0 7 | 17 48 | 1 33 | 14 39 | 0 21 | 20 27 | 1 19 | 11 43 | 8 2 | 23 42 | 23 42 | 14 0 | | | n.a. |
| S 26 | 20 35 | 23 22 | 0s18 | 12 43 | 4 24 | 23 16 | 0 26 | 9 17 | 0 42 | 23 50 | 0 7 | 17 48 | 1 33 | 14 39 | 0 21 | 20 27 | 1 19 | 11 43 | 8 2 | 23 42 | 23 42 | 13 58 | | | n.a. |
| S 27 | 20 22 | 21 28 | 1 22 | 12 48 | 4 28 | 23 19 | 0 23 | 9 1 | 0 41 | 23 50 | 0 7 | 17 48 | 1 33 | 14 40 | 0 21 | 20 27 | 1 19 | 11 43 | 8 2 | 23 42 | 23 42 | 13 56 | | | n.a. |
| M28 | 20 10 | 18 39 | 2 23 | 12 57 | 4 30 | 23 22 | 0 20 | 8 46 | 0 40 | 23 50 | 0 8 | 17 48 | 1 32 | 14 40 | 0 21 | 20 28 | 1 19 | 11 43 | 8 2 | 23 42 | 23 41 | 13 53 | | | n.a. |
| T 29 | 19 57 | 15 5 | 3 17 | 13 8 | 4 31 | 23 24 | 0 17 | 8 30 | 0 40 | 23 50 | 0 8 | 17 48 | 1 32 | 14 40 | 0 21 | 20 28 | 1 19 | 11 43 | 8 2 | 23 42 | 23 41 | 13 51 | | | n.a. |
| W30 | 19 44 | 10 56 | 4 2 | 13 22 | 4 30 | 23 25 | 0 14 | 8 15 | 0 39 | 23 50 | 0 8 | 17 48 | 1 32 | 14 41 | 0 21 | 20 28 | 1 19 | 11 43 | 8 2 | 23 42 | 23 41 | 13 48 | | | n.a. |
| T 31 | 19n30 | 6n23 | 4s37 | 13n38 | 4s28 | 23n26 | 0s11 | 7n59 | 0n38 | 23n50 | 0n 8 | 17s49 | 1n32 | 14n41 | 0s21 | 20n28 | 1s19 | 11n43 | 8s 2 | 23s42 | 23s41 | 13n46 | | | n.a. |

Julian Day Number = 1694210.5, Delta T = 03h08m54s
Ecliptic obliquity = 23°42'14, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°05'35, Lahiri = - 4°58'34 Julian Calendar 1 July 75 BCE == Greg. Calendar 29 June 075 BCE

The year -74 astronomical counting style corresponds to year 075 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 75 BCE
# geocentric

## AUGUST 75 BCE (-74) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 20 26 7 | 4♌49'48 | 14♍25 | 9°R 4 | 6♋ 5 | 11♍59 | 1♋44 | 25°R16 | 10♉ 7 | 7♊21 | 26♉20 | 29°R30 | 27♐59 | 12♌40 | n.a. | F 1 |
| S 2 | 20 30 3 | 5°47'53 | 26°26 | 8♌ 8 | 7°18 | 12°38 | 1°56 | 25♏16 | 10° 8 | 7°22 | 26°21 | 29♐24 | 27°56 | 12°47 | n.a. | S 2 |
| S 3 | 20 34 0 | 6°45'59 | 8♎36 | 7°11 | 8°30 | 13°17 | 2° 8 | 25°D16 | 10° 9 | 7°24 | 26°21 | 29°20 | 27°53 | 12°53 | n.a. | S 3 |
| M 4 | 20 37 57 | 7°44'07 | 20°59 | 6°15 | 9°43 | 13°57 | 2°20 | 25°16 | 10° 9 | 7°25 | 26°22 | 29°16 | 27°50 | 13° 0 | n.a. | M 4 |
| T 5 | 20 41 53 | 8°42'17 | 3♏37 | 5°21 | 10°56 | 14°36 | 2°32 | 25°16 | 10°10 | 7°26 | 26°22 | 29°D15 | 27°46 | 13° 7 | n.a. | T 5 |
| W 6 | 20 45 50 | 9°40'28 | 16°36 | 4°30 | 12° 8 | 15°16 | 2°44 | 25°16 | 10°11 | 7°27 | 26°23 | 29°15 | 27°43 | 13°13 | n.a. | W 6 |
| T 7 | 20 49 46 | 10°38'41 | 29°58 | 3°43 | 13°21 | 15°56 | 2°56 | 25°17 | 10°11 | 7°29 | 26°23 | 29°16 | 27°40 | 13°20 | n.a. | T 7 |
| F 8 | 20 53 43 | 11°36'56 | 13♐46 | 3° 2 | 14°34 | 16°36 | 3° 8 | 25°17 | 10°12 | 7°30 | 26°24 | 29°18 | 27°37 | 13°27 | n.a. | F 8 |
| S 9 | 20 57 39 | 12°35'12 | 28° 1 | 2°27 | 15°47 | 17°15 | 3°20 | 25°18 | 10°13 | 7°31 | 26°24 | 29°R18 | 27°34 | 13°33 | n.a. | S 9 |
| S 10 | 21 1 36 | 13°33'30 | 12♑41 | 2° 0 | 17° 0 | 17°55 | 3°31 | 25°18 | 10°13 | 7°32 | 26°25 | 29°18 | 27°30 | 13°40 | n.a. | S 10 |
| M11 | 21 5 32 | 14°31'49 | 27°42 | 1°41 | 18°14 | 18°35 | 3°43 | 25°19 | 10°14 | 7°33 | 26°25 | 29°15 | 27°27 | 13°47 | n.a. | M11 |
| T 12 | 21 9 29 | 15°30'11 | 12♒57 | 1°30 | 19°27 | 19°15 | 3°54 | 25°20 | 10°14 | 7°34 | 26°26 | 29°10 | 27°24 | 13°53 | n.a. | T 12 |
| W13 | 21 13 26 | 16°28'34 | 28°14 | 1°D28 | 20°40 | 19°55 | 4° 6 | 25°21 | 10°14 | 7°35 | 26°26 | 29° 4 | 27°21 | 14° 0 | n.a. | W13 |
| T 14 | 21 17 22 | 17°26'59 | 13♓24 | 1°35 | 21°53 | 20°35 | 4°17 | 25°22 | 10°15 | 7°36 | 26°26 | 28°57 | 27°18 | 14° 7 | n.a. | T 14 |
| F 15 | 21 21 19 | 18°25'26 | 28°16 | 1°52 | 23° 7 | 21°15 | 4°29 | 25°23 | 10°15 | 7°37 | 26°27 | 28°50 | 27°15 | 14°13 | n.a. | F 15 |
| S 16 | 21 25 15 | 19°23'55 | 12♈43 | 2°17 | 24°20 | 21°56 | 4°40 | 25°24 | 10°15 | 7°38 | 26°27 | 28°43 | 27°11 | 14°20 | n.a. | S 16 |
| S 17 | 21 29 12 | 20°22'27 | 26°42 | 2°52 | 25°33 | 22°36 | 4°51 | 25°25 | 10°15 | 7°39 | 26°27 | 28°39 | 27° 8 | 14°27 | n.a. | S 17 |
| M18 | 21 33 8 | 21°21'01 | 10♉11 | 3°35 | 26°47 | 23°16 | 5° 2 | 25°27 | 10°15 | 7°40 | 26°28 | 28°36 | 27° 5 | 14°34 | n.a. | M18 |
| T 19 | 21 37 5 | 22°19'37 | 23°13 | 4°26 | 28° 1 | 23°57 | 5°13 | 25°28 | 10°R15 | 7°41 | 26°28 | 28°D36 | 27° 2 | 14°40 | n.a. | T 19 |
| W20 | 21 41 1 | 23°18'16 | 5♊52 | 5°25 | 29°14 | 24°37 | 5°24 | 25°30 | 10°15 | 7°42 | 26°28 | 28°36 | 26°59 | 14°47 | n.a. | W20 |
| T 21 | 21 44 58 | 24°16'57 | 18°12 | 6°32 | 0♌28 | 25°18 | 5°35 | 25°32 | 10°15 | 7°43 | 26°28 | 28°37 | 26°55 | 14°54 | n.a. | T 21 |
| F 22 | 21 48 55 | 25°15'40 | 0♋17 | 7°44 | 1°42 | 25°58 | 5°46 | 25°33 | 10°15 | 7°43 | 26°28 | 28°R38 | 26°52 | 15° 0 | n.a. | F 22 |
| S 23 | 21 52 51 | 26°14'26 | 12°13 | 9° 3 | 2°56 | 26°39 | 5°57 | 25°35 | 10°15 | 7°44 | 26°29 | 28°37 | 26°49 | 15° 7 | n.a. | S 23 |
| S 24 | 21 56 48 | 27°13'14 | 24° 4 | 10°27 | 4° 9 | 27°20 | 6° 7 | 25°37 | 10°15 | 7°45 | 26°29 | 28°33 | 26°46 | 15°14 | n.a. | S 24 |
| M25 | 22 0 44 | 28°12'04 | 5♌53 | 11°56 | 5°23 | 28° 1 | 6°18 | 25°39 | 10°14 | 7°46 | 26°29 | 28°28 | 26°43 | 15°20 | n.a. | M25 |
| T 26 | 22 4 41 | 29°10'56 | 17°42 | 13°28 | 6°37 | 28°42 | 6°28 | 25°42 | 10°14 | 7°46 | 26°29 | 28°19 | 26°40 | 15°27 | n.a. | T 26 |
| W27 | 22 8 37 | 0♍ 9'50 | 29°34 | 15° 5 | 7°51 | 29°23 | 6°38 | 25°44 | 10°14 | 7°47 | 26°29 | 28° 9 | 26°36 | 15°34 | n.a. | W27 |
| T 28 | 22 12 34 | 1° 8'47 | 11♍30 | 16°44 | 9° 5 | 0♎ 4 | 6°49 | 25°46 | 10°13 | 7°47 | 26°29 | 27°57 | 26°33 | 15°40 | n.a. | T 28 |
| F 29 | 22 16 30 | 2° 7'45 | 23°32 | 18°25 | 10°20 | 0°45 | 6°59 | 25°49 | 10°13 | 7°48 | 26°29 | 27°44 | 26°30 | 15°47 | n.a. | F 29 |
| S 30 | 22 20 27 | 3° 6'46 | 5♎41 | 20° 9 | 11°34 | 1°26 | 7° 9 | 25°51 | 10°12 | 7°49 | 26°R29 | 27°33 | 26°27 | 15°54 | n.a. | S 30 |
| S 31 | 22 24 23 | 4♍ 5'48 | 17♎59 | 21♌54 | 12♌48 | 2♎ 7 | 7♋19 | 25♏54 | 10♉12 | 7♊49 | 26♉29 | 27♐23 | 26♐24 | 16♌ 0 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 19n16 | 1n35 | 5s 0 | 13n57 | 4s23 | 23n26 | 0s 8 | 7n43 | 0n37 | 23n50 | 0n 8 | 17s49 | 1n32 | 14n41 | 0s21 | 20n28 | 1s19 | 11n43 | 8s 3 | 23s42 | 23s41 | 13n43 | | n.a. |
| S 2 | 19 2 | 3s18 | 5 10 | 14 18 | 4 17 | 23 25 | 0 5 | 7 27 | 0 37 | 23 50 | 0 8 | 17 49 | 1 31 | 14 41 | 0 21 | 20 29 | 1 19 | 11 43 | 8 3 | 23 42 | 23 41 | 13 41 | | n.a. |
| S 3 | 18 47 | 8 8 | 5 7 | 14 41 | 4 8 | 23 23 | 0 2 | 7 12 | 0 36 | 23 49 | 0 8 | 17 49 | 1 31 | 14 42 | 0 21 | 20 29 | 1 19 | 11 43 | 8 3 | 23 42 | 23 41 | 13 38 | | n.a. |
| M 4 | 18 32 | 12 43 | 4 49 | 15 5 | 3 58 | 23 21 | 0n 1 | 6 56 | 0 35 | 23 49 | 0 8 | 17 49 | 1 31 | 14 42 | 0 21 | 20 29 | 1 19 | 11 43 | 8 3 | 23 42 | 23 41 | 13 36 | | n.a. |
| T 5 | 18 17 | 16 53 | 4 17 | 15 29 | 3 46 | 23 18 | 0 3 | 6 40 | 0 35 | 23 49 | 0 9 | 17 50 | 1 31 | 14 42 | 0 21 | 20 29 | 1 19 | 11 43 | 8 3 | 23 42 | 23 41 | 13 33 | | n.a. |
| W 6 | 18 1 | 20 21 | 3 31 | 15 55 | 3 32 | 23 15 | 0 6 | 6 23 | 0 34 | 23 49 | 0 9 | 17 50 | 1 30 | 14 42 | 0 21 | 20 29 | 1 19 | 11 43 | 8 3 | 23 42 | 23 41 | 13 31 | | n.a. |
| T 7 | 17 46 | 22 51 | 2 32 | 16 21 | 3 17 | 23 11 | 0 9 | 6 7 | 0 33 | 23 49 | 0 9 | 17 50 | 1 30 | 14 43 | 0 21 | 20 30 | 1 19 | 11 43 | 8 3 | 23 42 | 23 41 | 13 28 | | n.a. |
| F 8 | 17 29 | 24 5 | 1 23 | 16 46 | 3 0 | 23 6 | 0 12 | 5 51 | 0 33 | 23 49 | 0 9 | 17 50 | 1 30 | 14 43 | 0 21 | 20 30 | 1 19 | 11 43 | 8 3 | 23 42 | 23 41 | 13 26 | | n.a. |
| S 9 | 17 13 | 23 48 | 0 7 | 17 11 | 2 43 | 23 0 | 0 15 | 5 35 | 0 32 | 23 49 | 0 9 | 17 51 | 1 30 | 14 43 | 0 21 | 20 30 | 1 20 | 11 43 | 8 4 | 23 42 | 23 41 | 13 23 | | n.a. |
| S 10 | 16 56 | 21 54 | 1n12 | 17 35 | 2 25 | 22 54 | 0 17 | 5 18 | 0 31 | 23 49 | 0 9 | 17 51 | 1 30 | 14 43 | 0 21 | 20 30 | 1 20 | 11 43 | 8 4 | 23 42 | 23 41 | 13 21 | | n.a. |
| M11 | 16 39 | 18 27 | 2 27 | 17 57 | 2 6 | 22 47 | 0 20 | 5 2 | 0 31 | 23 48 | 0 9 | 17 51 | 1 29 | 14 43 | 0 21 | 20 30 | 1 20 | 11 43 | 8 4 | 23 42 | 23 41 | 13 18 | | n.a. |
| T 12 | 16 22 | 13 42 | 3 34 | 18 18 | 1 47 | 22 39 | 0 23 | 4 46 | 0 30 | 23 48 | 0 9 | 17 52 | 1 29 | 14 43 | 0 21 | 20 30 | 1 20 | 11 43 | 8 4 | 23 42 | 23 41 | 13 16 | | n.a. |
| W13 | 16 4 | 8 5 | 4 24 | 18 37 | 1 29 | 22 31 | 0 25 | 4 29 | 0 29 | 23 48 | 0 9 | 17 52 | 1 29 | 14 43 | 0 21 | 20 30 | 1 20 | 11 43 | 8 4 | 23 42 | 23 41 | 13 13 | | n.a. |
| T 14 | 15 46 | 2 2 | 4 56 | 18 53 | 1 10 | 22 22 | 0 28 | 4 12 | 0 29 | 23 48 | 0 10 | 17 53 | 1 29 | 14 44 | 0 21 | 20 31 | 1 20 | 11 43 | 8 4 | 23 42 | 23 41 | 13 11 | | n.a. |
| F 15 | 15 28 | 4n 0 | 5 7 | 19 7 | 0 52 | 22 12 | 0 31 | 3 56 | 0 28 | 23 47 | 0 10 | 17 53 | 1 29 | 14 44 | 0 21 | 20 31 | 1 20 | 11 43 | 8 4 | 23 42 | 23 40 | 13 8 | | n.a. |
| S 16 | 15 10 | 9 39 | 4 58 | 19 19 | 0 34 | 22 2 | 0 33 | 3 39 | 0 27 | 23 47 | 0 10 | 17 54 | 1 28 | 14 44 | 0 21 | 20 31 | 1 20 | 11 43 | 8 4 | 23 42 | 23 40 | 13 6 | | n.a. |
| S 17 | 14 51 | 14 37 | 4 32 | 19 27 | 0 17 | 21 51 | 0 36 | 3 23 | 0 27 | 23 47 | 0 10 | 17 54 | 1 28 | 14 44 | 0 21 | 20 31 | 1 20 | 11 43 | 8 5 | 23 42 | 23 40 | 13 3 | | n.a. |
| M18 | 14 32 | 18 40 | 3 50 | 19 33 | 0 1 | 21 39 | 0 38 | 3 6 | 0 26 | 23 47 | 0 10 | 17 55 | 1 28 | 14 44 | 0 21 | 20 31 | 1 20 | 11 43 | 8 5 | 23 42 | 23 40 | 13 1 | | n.a. |
| T 19 | 14 13 | 21 40 | 2 59 | 19 35 | 0n14 | 21 27 | 0 40 | 2 49 | 0 25 | 23 46 | 0 10 | 17 55 | 1 28 | 14 44 | 0 21 | 20 31 | 1 20 | 11 43 | 8 5 | 23 42 | 23 40 | 12 58 | | n.a. |
| W20 | 13 54 | 23 29 | 1 59 | 19 34 | 0 28 | 21 14 | 0 43 | 2 32 | 0 25 | 23 46 | 0 10 | 17 56 | 1 27 | 14 44 | 0 21 | 20 31 | 1 20 | 11 43 | 8 5 | 23 42 | 23 40 | 12 56 | | n.a. |
| T 21 | 13 34 | 24 6 | 0 56 | 19 30 | 0 41 | 21 0 | 0 45 | 2 15 | 0 24 | 23 46 | 0 10 | 17 57 | 1 27 | 14 44 | 0 21 | 20 31 | 1 20 | 11 43 | 8 5 | 23 42 | 23 40 | 12 53 | | n.a. |
| F 22 | 13 15 | 23 33 | 0s 9 | 19 23 | 0 53 | 20 46 | 0 47 | 1 58 | 0 23 | 23 45 | 0 11 | 17 57 | 1 27 | 14 44 | 0 21 | 20 32 | 1 20 | 11 43 | 8 5 | 23 42 | 23 40 | 12 51 | | n.a. |
| S 23 | 12 55 | 21 56 | 1 12 | 19 13 | 1 4 | 20 31 | 0 50 | 1 41 | 0 23 | 23 45 | 0 11 | 17 58 | 1 27 | 14 44 | 0 21 | 20 32 | 1 20 | 11 43 | 8 5 | 23 42 | 23 40 | 12 48 | | n.a. |
| S 24 | 12 34 | 19 22 | 2 12 | 18 59 | 1 13 | 20 16 | 0 52 | 1 24 | 0 22 | 23 45 | 0 11 | 17 59 | 1 27 | 14 44 | 0 21 | 20 32 | 1 20 | 11 43 | 8 5 | 23 42 | 23 40 | 12 46 | | n.a. |
| M25 | 12 14 | 16 1 | 3 5 | 18 42 | 1 22 | 20 0 | 0 54 | 1 7 | 0 21 | 23 44 | 0 11 | 17 59 | 1 26 | 14 43 | 0 21 | 20 32 | 1 20 | 11 42 | 8 6 | 23 42 | 23 40 | 12 43 | | n.a. |
| T 26 | 11 53 | 12 2 | 3 51 | 18 23 | 1 29 | 19 43 | 0 56 | 0 50 | 0 21 | 23 44 | 0 11 | 18 0 | 1 26 | 14 43 | 0 21 | 20 32 | 1 20 | 11 42 | 8 6 | 23 42 | 23 40 | 12 41 | | n.a. |
| W27 | 11 32 | 7 36 | 4 26 | 18 0 | 1 35 | 19 26 | 0 58 | 0 33 | 0 20 | 23 43 | 0 11 | 18 1 | 1 26 | 14 43 | 0 21 | 20 32 | 1 20 | 11 42 | 8 6 | 23 41 | 23 40 | 12 38 | | n.a. |
| T 28 | 11 11 | 2 51 | 4 50 | 17 35 | 1 40 | 19 8 | 1 0 | 0 16 | 0 19 | 23 43 | 0 11 | 18 1 | 1 26 | 14 43 | 0 21 | 20 32 | 1 20 | 11 42 | 8 6 | 23 41 | 23 40 | 12 36 | | n.a. |
| F 29 | 10 50 | 2s 1 | 5 2 | 17 8 | 1 45 | 18 50 | 1 2 | 0s 1 | 0 18 | 23 43 | 0 12 | 18 2 | 1 26 | 14 43 | 0 21 | 20 32 | 1 20 | 11 42 | 8 6 | 23 41 | 23 39 | 12 33 | | n.a. |
| S 30 | 10 28 | 6 51 | 5 0 | 16 38 | 1 48 | 18 31 | 1 4 | 0 18 | 0 18 | 23 42 | 0 12 | 18 3 | 1 25 | 14 43 | 0 21 | 20 32 | 1 20 | 11 42 | 8 6 | 23 41 | 23 39 | 12 31 | | n.a. |
| S 31 | 10n 7 | 11s29 | 4s44 | 16n 6 | 1n50 | 18n12 | 1n 5 | 0s35 | 0n17 | 23n42 | 0n12 | 18s 4 | 1n25 | 14n43 | 0s21 | 20n32 | 1s20 | 11n42 | 8s 6 | 23s41 | 23s39 | 12n28 | | n.a. |

Julian Day Number = 1694241.5, Delta T = 03h08m53s
Ecliptic obliquity = 23°42'14, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°05'30, Lahiri = - 4°58'30 Julian Calendar 1 Aug. 75 BCE == Greg. Calendar 30 July 075 BCE

The year -74 astronomical counting style corresponds to year 075 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 75 BCE
# geocentric

## SEPTEMBER 75 BCE (-74) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 22 28 20 | 5♍ 4'52 | 0♏27 | 23♌40 | 14♌ 2 | 2♎48 | 7♋28 | 25♏57 | 10°R11 | 7♊49 | 26°R29 | 27°R15 | 26♐21 | 16♌ 7 | n.a. | M 1 |
| T 2 | 22 32 17 | 6° 3'59 | 13° 8 | 25°27 | 16°15 | 3°30 | 7°38 | 25°59 | 10♉10 | 7°50 | 26♉29 | 27♐11 | 26°17 | 16°14 | n.a. | T 2 |
| W 3 | 22 36 13 | 7° 3'07 | 26° 4 | 27°14 | 16°31 | 4°11 | 7°48 | 26° 2 | 10°10 | 7°50 | 26°29 | 27° 8 | 26°14 | 16°21 | n.a. | W 3 |
| T 4 | 22 40 10 | 8° 2'17 | 9♐20 | 29° 2 | 17°45 | 4°53 | 7°57 | 26° 5 | 10° 9 | 7°51 | 26°29 | 27°D 8 | 26°11 | 16°27 | n.a. | T 4 |
| F 5 | 22 44 6 | 9° 1'29 | 22°58 | 0♍50 | 19° 0 | 5°34 | 8° 7 | 26° 8 | 10° 8 | 7°51 | 26°29 | 27°R 8 | 26° 8 | 16°34 | n.a. | F 5 |
| S 6 | 22 48 3 | 10° 0'43 | 6♑59 | 2°37 | 20°14 | 6°16 | 8°16 | 26°11 | 10° 7 | 7°51 | 26°29 | 27° 8 | 26° 5 | 16°41 | n.a. | S 6 |
| S 7 | 22 51 59 | 10°59'59 | 21°25 | 4°25 | 21°29 | 6°57 | 8°25 | 26°15 | 10° 6 | 7°51 | 26°29 | 27° 6 | 26° 1 | 16°47 | n.a. | S 7 |
| M 8 | 22 55 56 | 11°59'16 | 6♒12 | 6°12 | 22°43 | 7°39 | 8°34 | 26°18 | 10° 5 | 7°52 | 26°28 | 27° 2 | 25°58 | 16°54 | n.a. | M 8 |
| T 9 | 22 59 52 | 12°58'35 | 21°16 | 7°59 | 23°58 | 8°21 | 8°43 | 26°21 | 10° 4 | 7°52 | 26°28 | 26°54 | 25°55 | 17° 1 | n.a. | T 9 |
| W10 | 23 3 49 | 13°57'57 | 6♓27 | 9°45 | 25°12 | 9° 3 | 8°52 | 26°25 | 10° 3 | 7°52 | 26°28 | 26°45 | 25°52 | 17° 7 | n.a. | W10 |
| T 11 | 23 7 46 | 14°57'20 | 21°36 | 11°31 | 26°27 | 9°45 | 9° 1 | 26°29 | 10° 2 | 7°52 | 26°28 | 26°34 | 25°49 | 17°14 | n.a. | T 11 |
| F 12 | 23 11 42 | 15°56'46 | 6♈31 | 13°16 | 27°42 | 10°27 | 9° 9 | 26°32 | 10° 1 | 7°52 | 26°27 | 26°23 | 25°46 | 17°21 | n.a. | F 12 |
| S 13 | 23 15 39 | 16°56'14 | 21° 4 | 15° 1 | 28°56 | 11° 9 | 9°18 | 26°36 | 10° 0 | 7°52 | 26°27 | 26°13 | 25°42 | 17°27 | n.a. | S 13 |
| S 14 | 23 19 35 | 17°55'44 | 5♉10 | 16°45 | 0♍11 | 11°51 | 9°26 | 26°40 | 9°59 | 7°R52 | 26°27 | 26° 5 | 25°39 | 17°34 | n.a. | S 14 |
| M15 | 23 23 32 | 18°55'16 | 18°46 | 18°28 | 1°26 | 12°33 | 9°34 | 26°44 | 9°57 | 7°52 | 26°26 | 26° 0 | 25°36 | 17°41 | n.a. | M15 |
| T 16 | 23 27 28 | 19°54'51 | 1♊53 | 20°11 | 2°41 | 13°15 | 9°42 | 26°48 | 9°56 | 7°52 | 26°26 | 25°57 | 25°33 | 17°48 | n.a. | T 16 |
| W17 | 23 31 25 | 20°54'29 | 14°34 | 21°52 | 3°56 | 13°57 | 9°50 | 26°52 | 9°55 | 7°52 | 26°26 | 25°56 | 25°30 | 17°54 | n.a. | W17 |
| T 18 | 23 35 21 | 21°54'08 | 26°55 | 23°34 | 5°11 | 14°40 | 9°58 | 26°56 | 9°53 | 7°52 | 26°25 | 25°56 | 25°27 | 18° 1 | n.a. | T 18 |
| F 19 | 23 39 18 | 22°53'51 | 8♋59 | 25°14 | 6°26 | 15°22 | 10° 6 | 27° 0 | 9°52 | 7°52 | 26°25 | 25°55 | 25°23 | 18° 8 | n.a. | F 19 |
| S 20 | 23 43 14 | 23°53'35 | 20°54 | 26°54 | 7°41 | 16° 5 | 10°13 | 27° 4 | 9°50 | 7°52 | 26°24 | 25°54 | 25°20 | 18°14 | n.a. | S 20 |
| S 21 | 23 47 11 | 24°53'22 | 2♌43 | 28°33 | 8°56 | 16°47 | 10°21 | 27° 9 | 9°49 | 7°51 | 26°24 | 25°49 | 25°17 | 18°21 | n.a. | S 21 |
| M22 | 23 51 8 | 25°53'11 | 14°32 | 0♎12 | 10°11 | 17°30 | 10°28 | 27°13 | 9°47 | 7°51 | 26°23 | 25°42 | 25°14 | 18°28 | n.a. | M22 |
| T 23 | 23 55 4 | 26°53'02 | 26°23 | 1°50 | 11°26 | 18°12 | 10°35 | 27°18 | 9°45 | 7°51 | 26°23 | 25°32 | 25°11 | 18°34 | n.a. | T 23 |
| W24 | 23 59 1 | 27°52'55 | 8♍20 | 3°27 | 12°41 | 18°55 | 10°42 | 27°22 | 9°44 | 7°50 | 26°22 | 25°20 | 25° 7 | 18°41 | n.a. | W24 |
| T 25 | 0 2 57 | 28°52'51 | 20°24 | 5° 4 | 13°56 | 19°38 | 10°49 | 27°27 | 9°42 | 7°50 | 26°22 | 25° 6 | 25° 4 | 18°48 | n.a. | T 25 |
| F 26 | 0 6 54 | 29°52'48 | 2♎37 | 6°40 | 15°11 | 20°21 | 10°56 | 27°32 | 9°40 | 7°50 | 26°21 | 24°51 | 25° 1 | 18°55 | n.a. | F 26 |
| S 27 | 0 10 50 | 0♎52'48 | 14°59 | 8°16 | 16°26 | 21° 4 | 11° 2 | 27°37 | 9°39 | 7°49 | 26°21 | 24°38 | 24°58 | 19° 1 | n.a. | S 27 |
| S 28 | 0 14 47 | 1°52'49 | 27°31 | 9°51 | 17°41 | 21°47 | 11° 8 | 27°41 | 9°37 | 7°49 | 26°20 | 24°26 | 24°55 | 19° 8 | n.a. | S 28 |
| M29 | 0 18 43 | 2°52'53 | 10♏13 | 11°26 | 18°57 | 22°30 | 11°15 | 27°46 | 9°35 | 7°48 | 26°20 | 24°16 | 24°52 | 19°15 | n.a. | M29 |
| T 30 | 0 22 40 | 3♎52'58 | 23♏ 6 | 13♎ 0 | 20♍12 | 23♎13 | 11♋21 | 27♏51 | 9♉33 | 7♊48 | 26♉19 | 24♐10 | 24♐48 | 19♌21 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 9n45 | 15s42 | 4s14 | 15n32 | 1n52 | 17n52 | 1n 7 | 0s53 | 0n16 | 23n41 | 0n12 | 18s 5 | 1n25 | 14n42 | 0s21 | 20n32 | 1s20 | 11n42 | 8s 7 | 23s41 | 23s39 | 12n26 | | n.a. |
| T 2 | 9 23 | 19 18 | 3 31 | 14 57 | 1 53 | 17 32 | 1 9 | 1 10 | 0 16 | 23 41 | 0 12 | 18 6 | 1 25 | 14 42 | 0 21 | 20 32 | 1 20 | 11 41 | 8 7 | 23 40 | 23 39 | 12 23 | | n.a. |
| W 3 | 9 1 | 22 2 | 2 37 | 14 20 | 1 53 | 17 11 | 1 10 | 1 27 | 0 15 | 23 41 | 0 12 | 18 6 | 1 25 | 14 42 | 0 21 | 20 32 | 1 20 | 11 41 | 8 7 | 23 40 | 23 39 | 12 21 | | n.a. |
| T 4 | 8 39 | 23 38 | 1 33 | 13 41 | 1 52 | 16 49 | 1 12 | 1 44 | 0 14 | 23 40 | 0 12 | 18 7 | 1 24 | 14 42 | 0 21 | 20 32 | 1 20 | 11 41 | 8 7 | 23 40 | 23 39 | 12 18 | | n.a. |
| F 5 | 8 16 | 23 53 | 0 22 | 13 1 | 1 51 | 16 27 | 1 13 | 2 2 | 0 14 | 23 40 | 0 13 | 18 8 | 1 24 | 14 41 | 0 21 | 20 32 | 1 20 | 11 41 | 8 7 | 23 40 | 23 39 | 12 16 | | n.a. |
| S 6 | 7 54 | 22 39 | 0n52 | 12 21 | 1 49 | 16 5 | 1 15 | 2 19 | 0 13 | 23 39 | 0 13 | 18 9 | 1 24 | 14 41 | 0 21 | 20 32 | 1 20 | 11 41 | 8 7 | 23 40 | 23 39 | 12 13 | | n.a. |
| S 7 | 7 31 | 19 55 | 2 5 | 11 39 | 1 47 | 15 42 | 1 16 | 2 36 | 0 12 | 23 39 | 0 13 | 18 10 | 1 24 | 14 41 | 0 21 | 20 32 | 1 21 | 11 41 | 8 7 | 23 40 | 23 39 | 12 10 | | n.a. |
| M 8 | 7 8 | 15 51 | 3 11 | 10 56 | 1 44 | 15 19 | 1 17 | 2 53 | 0 12 | 23 38 | 0 13 | 18 11 | 1 24 | 14 40 | 0 21 | 20 32 | 1 21 | 11 40 | 8 8 | 23 40 | 23 39 | 12 8 | | n.a. |
| T 9 | 6 46 | 10 42 | 4 5 | 10 13 | 1 40 | 14 55 | 1 19 | 3 11 | 0 11 | 23 38 | 0 13 | 18 12 | 1 23 | 14 40 | 0 21 | 20 32 | 1 21 | 11 40 | 8 8 | 23 40 | 23 38 | 12 5 | | n.a. |
| W10 | 6 23 | 4 52 | 4 42 | 9 29 | 1 37 | 14 31 | 1 20 | 3 28 | 0 10 | 23 37 | 0 13 | 18 13 | 1 23 | 14 40 | 0 21 | 20 32 | 1 21 | 11 40 | 8 8 | 23 40 | 23 38 | 12 3 | | n.a. |
| T 11 | 5 59 | 1n13 | 5 0 | 8 45 | 1 33 | 14 6 | 1 21 | 3 45 | 0 10 | 23 37 | 0 13 | 18 14 | 1 23 | 14 39 | 0 21 | 20 32 | 1 21 | 11 40 | 8 8 | 23 40 | 23 38 | 12 0 | | n.a. |
| F 12 | 5 36 | 7 8 | 4 56 | 8 0 | 1 28 | 13 41 | 1 22 | 4 2 | 0 9 | 23 37 | 0 14 | 18 15 | 1 23 | 14 39 | 0 21 | 20 32 | 1 21 | 11 40 | 8 8 | 23 39 | 23 38 | 11 58 | | n.a. |
| S 13 | 5 13 | 12 31 | 4 33 | 7 15 | 1 23 | 13 16 | 1 23 | 4 20 | 0 8 | 23 36 | 0 14 | 18 16 | 1 23 | 14 39 | 0 21 | 20 32 | 1 21 | 11 40 | 8 8 | 23 39 | 23 38 | 11 55 | | n.a. |
| S 14 | 4 49 | 17 4 | 3 54 | 6 29 | 1 18 | 12 50 | 1 24 | 4 37 | 0 8 | 23 36 | 0 14 | 18 17 | 1 22 | 14 38 | 0 21 | 20 32 | 1 21 | 11 39 | 8 8 | 23 39 | 23 38 | 11 53 | | n.a. |
| M15 | 4 26 | 20 32 | 3 3 | 5 44 | 1 13 | 12 24 | 1 24 | 4 54 | 0 7 | 23 35 | 0 14 | 18 18 | 1 22 | 14 38 | 0 21 | 20 32 | 1 21 | 11 39 | 8 8 | 23 39 | 23 38 | 11 50 | | n.a. |
| T 16 | 4 2 | 22 47 | 2 4 | 4 58 | 1 8 | 11 57 | 1 25 | 5 11 | 0 6 | 23 35 | 0 14 | 18 20 | 1 22 | 14 37 | 0 21 | 20 32 | 1 21 | 11 39 | 8 9 | 23 38 | 23 38 | 11 48 | | n.a. |
| W17 | 3 39 | 23 47 | 1 0 | 4 12 | 1 2 | 11 30 | 1 26 | 5 29 | 0 6 | 23 34 | 0 14 | 18 21 | 1 22 | 14 37 | 0 21 | 20 32 | 1 21 | 11 39 | 8 9 | 23 38 | 23 38 | 11 45 | | n.a. |
| T 18 | 3 15 | 23 35 | 0s 5 | 3 27 | 0 56 | 11 3 | 1 26 | 5 46 | 0 5 | 23 34 | 0 14 | 18 22 | 1 22 | 14 36 | 0 21 | 20 32 | 1 21 | 11 39 | 8 9 | 23 38 | 23 37 | 11 42 | | n.a. |
| F 19 | 2 51 | 22 15 | 1 9 | 2 41 | 0 50 | 10 36 | 1 27 | 6 3 | 0 4 | 23 33 | 0 15 | 18 23 | 1 22 | 14 36 | 0 21 | 20 32 | 1 21 | 11 38 | 8 9 | 23 38 | 23 37 | 11 40 | | n.a. |
| S 20 | 2 27 | 19 57 | 2 8 | 1 55 | 0 44 | 10 8 | 1 27 | 6 20 | 0 4 | 23 33 | 0 15 | 18 24 | 1 21 | 14 36 | 0 21 | 20 32 | 1 21 | 11 38 | 8 9 | 23 38 | 23 37 | 11 37 | | n.a. |
| S 21 | 2 3 | 16 50 | 3 1 | 1 9 | 0 38 | 9 40 | 1 28 | 6 37 | 0 3 | 23 33 | 0 15 | 18 25 | 1 21 | 14 35 | 0 21 | 20 32 | 1 21 | 11 38 | 8 9 | 23 38 | 23 37 | 11 35 | | n.a. |
| M22 | 1 39 | 13 2 | 3 47 | 0 24 | 0 31 | 9 12 | 1 28 | 6 54 | 0 2 | 23 32 | 0 15 | 18 26 | 1 21 | 14 35 | 0 21 | 20 32 | 1 21 | 11 38 | 8 9 | 23 38 | 23 37 | 11 32 | | n.a. |
| T 23 | 1 15 | 8 45 | 4 22 | 0s21 | 0 25 | 8 43 | 1 29 | 7 11 | 0 2 | 23 32 | 0 15 | 18 28 | 1 21 | 14 34 | 0 21 | 20 32 | 1 21 | 11 37 | 8 9 | 23 38 | 23 37 | 11 30 | | n.a. |
| W24 | 0 51 | 4 7 | 4 47 | 1 6 | 0 18 | 8 14 | 1 29 | 7 28 | 0 1 | 23 31 | 0 15 | 18 29 | 1 21 | 14 33 | 0 21 | 20 31 | 1 21 | 11 37 | 8 9 | 23 37 | 23 37 | 11 27 | | n.a. |
| T 25 | 0 27 | 0s43 | 4 59 | 1 51 | 0 12 | 7 45 | 1 29 | 7 45 | 0 0 | 23 31 | 0 16 | 18 30 | 1 20 | 14 33 | 0 21 | 20 31 | 1 21 | 11 37 | 8 10 | 23 37 | 23 37 | 11 25 | | n.a. |
| F 26 | 0 3 | 5 35 | 4 57 | 2 36 | 0 5 | 7 16 | 1 29 | 8 2 | 0s 0 | 23 31 | 0 16 | 18 31 | 1 20 | 14 32 | 0 21 | 20 31 | 1 21 | 11 37 | 8 10 | 23 36 | 23 37 | 11 22 | | n.a. |
| S 27 | 0s21 | 10 17 | 4 41 | 3 20 | 0s 1 | 6 46 | 1 29 | 8 19 | 0 1 | 23 30 | 0 16 | 18 33 | 1 20 | 14 32 | 0 21 | 20 31 | 1 21 | 11 37 | 8 10 | 23 36 | 23 36 | 11 19 | | n.a. |
| S 28 | 0 45 | 14 37 | 4 12 | 4 4 | 0 8 | 6 17 | 1 29 | 8 36 | 0 2 | 23 30 | 0 16 | 18 34 | 1 20 | 14 31 | 0 21 | 20 31 | 1 21 | 11 36 | 8 10 | 23 35 | 23 36 | 11 17 | | n.a. |
| M29 | 1 9 | 18 21 | 3 30 | 4 48 | 0 15 | 5 47 | 1 29 | 8 53 | 0 2 | 23 29 | 0 16 | 18 35 | 1 20 | 14 31 | 0 21 | 20 31 | 1 21 | 11 36 | 8 10 | 23 35 | 23 36 | 11 14 | | n.a. |
| T 30 | 1s34 | 21s16 | 2s36 | 5s31 | 0s22 | 5n17 | 1n28 | 9s10 | 0s 3 | 23n29 | 0n16 | 18s36 | 1n20 | 14n30 | 0s21 | 20n31 | 1s21 | 11n36 | 8s10 | 23s34 | 23s36 | 11n12 | | n.a. |

Julian Day Number = 1694272.5, Delta T = 03h08m52s
Ecliptic obliquity = 23°42'15, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°05'26, Lahiri = - 4°58'26 Julian Calendar 1 Sept. 75 BCE == Greg. Calendar 30 Aug. 075 BCE

The year -74 astronomical counting style corresponds to year 075 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 75 BCE
# geocentric

## OCTOBER 75 BCE (-74) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 0 26 37 | 4♎53'05 | 6♐11 | 14♎34 | 21♍27 | 23♎56 | 11♋27 | 27♏56 | 9°R31 | 7°R47 | 26°R18 | 24°R 7 | 24♐45 | 19♌28 | n.a. | W 1 |
| T 2 | 0 30 33 | 5°53'14 | 19°30 | 16° 7 | 22°42 | 24°39 | 11°32 | 28° 2 | 9♉29 | 7♊47 | 26♉18 | 24°D 6 | 24°42 | 19°35 | n.a. | T 2 |
| F 3 | 0 34 30 | 6°53'24 | 3♑ 5 | 17°40 | 23°58 | 25°22 | 11°38 | 28° 7 | 9°27 | 7°46 | 26°17 | 24°R 6 | 24°39 | 19°41 | n.a. | F 3 |
| S 4 | 0 38 26 | 7°53'36 | 16°57 | 19°12 | 25°13 | 26° 6 | 11°43 | 28°12 | 9°25 | 7°45 | 26°16 | 24♐ 6 | 24°36 | 19°48 | n.a. | S 4 |
| S 5 | 0 42 23 | 8°53'50 | 1♒ 7 | 20°44 | 26°28 | 26°49 | 11°49 | 28°17 | 9°23 | 7°45 | 26°15 | 24° 4 | 24°32 | 19°55 | n.a. | S 5 |
| M 6 | 0 46 19 | 9°54'05 | 15°34 | 22°15 | 27°44 | 27°32 | 11°54 | 28°23 | 9°21 | 7°44 | 26°15 | 24° 0 | 24°29 | 20° 1 | n.a. | M 6 |
| T 7 | 0 50 16 | 10°54'21 | 0♓16 | 23°46 | 28°59 | 28°16 | 11°59 | 28°28 | 9°19 | 7°43 | 26°14 | 23°53 | 24°26 | 20° 8 | n.a. | T 7 |
| W 8 | 0 54 12 | 11°54'39 | 15° 5 | 25°17 | 0♎14 | 29° 0 | 12° 4 | 28°34 | 9°17 | 7°42 | 26°13 | 23°44 | 24°23 | 20°15 | n.a. | W 8 |
| T 9 | 0 58 9 | 12°54'59 | 29°55 | 26°47 | 1°30 | 29°43 | 12° 8 | 28°39 | 9°14 | 7°42 | 26°12 | 23°33 | 24°20 | 20°22 | n.a. | T 9 |
| F 10 | 1 2 6 | 13°55'21 | 14♈37 | 28°16 | 2°45 | 0♏27 | 12°13 | 28°45 | 9°12 | 7°41 | 26°11 | 23°22 | 24°17 | 20°28 | n.a. | F 10 |
| S 11 | 1 6 2 | 14°55'44 | 29° 2 | 29°46 | 4° 1 | 1°11 | 12°17 | 28°50 | 9°10 | 7°40 | 26°11 | 23°12 | 24°13 | 20°35 | n.a. | S 11 |
| S 12 | 1 9 59 | 15°56'09 | 13♉ 5 | 1♏14 | 5°16 | 1°54 | 12°21 | 28°56 | 9° 8 | 7°39 | 26°10 | 23° 4 | 24°10 | 20°42 | n.a. | S 12 |
| M13 | 1 13 55 | 16°56'37 | 26°42 | 2°43 | 6°31 | 2°38 | 12°25 | 29° 2 | 9° 6 | 7°38 | 26° 9 | 22°59 | 24° 7 | 20°48 | n.a. | M13 |
| T 14 | 1 17 52 | 17°57'06 | 9♊52 | 4°11 | 7°47 | 3°22 | 12°28 | 29° 8 | 9° 3 | 7°37 | 26° 8 | 22°56 | 24° 4 | 20°55 | n.a. | T 14 |
| W15 | 1 21 48 | 18°57'37 | 22°37 | 5°38 | 9° 2 | 4° 6 | 12°32 | 29°14 | 9° 1 | 7°36 | 26° 7 | 22°D55 | 24° 1 | 21° 2 | n.a. | W15 |
| T 16 | 1 25 45 | 19°58'10 | 5♋ 1 | 7° 5 | 10°18 | 4°50 | 12°35 | 29°20 | 8°59 | 7°35 | 26° 6 | 22°55 | 23°58 | 21° 8 | n.a. | T 16 |
| F 17 | 1 29 41 | 20°58'44 | 17° 9 | 8°31 | 11°33 | 5°34 | 12°39 | 29°26 | 8°56 | 7°34 | 26° 5 | 22°R56 | 23°54 | 21°15 | n.a. | F 17 |
| S 18 | 1 33 38 | 21°59'21 | 29° 5 | 9°56 | 12°49 | 6°18 | 12°42 | 29°32 | 8°54 | 7°33 | 26° 4 | 22°56 | 23°51 | 21°22 | n.a. | S 18 |
| S 19 | 1 37 35 | 23° 0'00 | 10♌56 | 11°21 | 14° 4 | 7° 2 | 12°44 | 29°38 | 8°51 | 7°32 | 26° 3 | 22°54 | 23°48 | 21°29 | n.a. | S 19 |
| M20 | 1 41 31 | 24° 0'40 | 22°46 | 12°45 | 15°20 | 7°47 | 12°47 | 29°44 | 8°49 | 7°31 | 26° 2 | 22°50 | 23°45 | 21°35 | n.a. | M20 |
| T 21 | 1 45 28 | 25° 1'22 | 4♍39 | 14° 8 | 16°36 | 8°31 | 12°49 | 29°50 | 8°47 | 7°30 | 26° 1 | 22°43 | 23°42 | 21°42 | n.a. | T 21 |
| W22 | 1 49 24 | 26° 2'05 | 16°41 | 15°30 | 17°51 | 9°15 | 12°52 | 29°56 | 8°44 | 7°28 | 26° 0 | 22°34 | 23°38 | 21°49 | n.a. | W22 |
| T 23 | 1 53 21 | 27° 2'51 | 28°53 | 16°51 | 19° 7 | 10° 0 | 12°54 | 0♐ 2 | 8°42 | 7°27 | 25°59 | 22°24 | 23°35 | 21°55 | n.a. | T 23 |
| F 24 | 1 57 17 | 28° 3'38 | 11♎17 | 18°11 | 20°22 | 10°44 | 12°56 | 0° 9 | 8°39 | 7°26 | 25°58 | 22°13 | 23°32 | 22° 2 | n.a. | F 24 |
| S 25 | 2 1 14 | 29° 4'26 | 23°54 | 19°29 | 21°38 | 11°29 | 12°57 | 0°15 | 8°37 | 7°25 | 25°57 | 22° 3 | 23°29 | 22° 9 | n.a. | S 25 |
| S 26 | 2 5 10 | 0♏ 5'16 | 6♏45 | 20°46 | 22°53 | 12°13 | 12°59 | 0°21 | 8°34 | 7°24 | 25°56 | 21°54 | 23°26 | 22°15 | n.a. | S 26 |
| M27 | 2 9 7 | 1° 6'07 | 19°47 | 22° 1 | 24° 9 | 12°58 | 13° 0 | 0°28 | 8°32 | 7°22 | 25°55 | 21°47 | 23°23 | 22°22 | n.a. | M27 |
| T 28 | 2 13 3 | 2° 7'00 | 3♐ 2 | 23°14 | 25°25 | 13°43 | 13° 1 | 0°34 | 8°29 | 7°21 | 25°54 | 21°43 | 23°19 | 22°29 | n.a. | T 28 |
| W29 | 2 17 0 | 3° 7'53 | 16°27 | 24°24 | 26°40 | 14°27 | 13° 2 | 0°41 | 8°27 | 7°20 | 25°53 | 21°D41 | 23°16 | 22°36 | n.a. | W29 |
| T 30 | 2 20 57 | 4° 8'48 | 0♑ 2 | 25°32 | 27°56 | 15°12 | 13° 3 | 0°47 | 8°24 | 7°18 | 25°52 | 21°42 | 23°13 | 22°42 | n.a. | T 30 |
| F 31 | 2 24 53 | 5♏ 9'44 | 13♑47 | 26♏36 | 29♎11 | 15♏57 | 13♋ 3 | 0♐54 | 8♉22 | 7♊17 | 25♉51 | 21♐43 | 23♐10 | 22♌49 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| W 1 | 1s58 | 23s 7 | 1s33 | 6s14 | 0s28 | 4n46 | 1n28 | 9s26 | 0s 4 | 23n29 | 0n17 | 18s38 | 1n19 | 14n29 | 0s21 | 20n31 | 1s21 | 11n36 | 8s10 | 23s34 | 23s36 | 11n 9 | | | n.a. |
| T 2 | 2 22 | 23 41 | 0 24 | 6 57 | 0 35 | 4 16 | 1 28 | 9 43 | 0 4 | 23 28 | 0 17 | 18 39 | 1 19 | 14 29 | 0 21 | 20 31 | 1 21 | 11 35 | 8 10 | 23 34 | 23 36 | 11 7 | | | n.a. |
| F 3 | 2 46 | 22 53 | 0n47 | 7 39 | 0 41 | 3 46 | 1 27 | 10 0 | 0 5 | 23 28 | 0 17 | 18 40 | 1 19 | 14 28 | 0 21 | 20 30 | 1 21 | 11 35 | 8 10 | 23 34 | 23 36 | 11 4 | | | n.a. |
| S 4 | 3 10 | 20 40 | 1 58 | 8 20 | 0 48 | 3 15 | 1 27 | 10 16 | 0 6 | 23 28 | 0 17 | 18 42 | 1 19 | 14 27 | 0 21 | 20 30 | 1 21 | 11 35 | 8 10 | 23 34 | 23 36 | 11 2 | | | n.a. |
| S 5 | 3 34 | 17 10 | 3 3 | 9 1 | 0 54 | 2 44 | 1 26 | 10 33 | 0 6 | 23 27 | 0 17 | 18 43 | 1 19 | 14 27 | 0 21 | 20 30 | 1 22 | 11 35 | 8 11 | 23 34 | 23 35 | 10 59 | | | n.a. |
| M 6 | 3 58 | 12 34 | 3 57 | 9 42 | 1 1 | 2 13 | 1 26 | 10 49 | 0 7 | 23 27 | 0 17 | 18 44 | 1 19 | 14 26 | 0 21 | 20 30 | 1 22 | 11 34 | 8 11 | 23 34 | 23 35 | 10 56 | | | n.a. |
| T 7 | 4 22 | 7 11 | 4 37 | 10 22 | 1 7 | 1 42 | 1 25 | 11 5 | 0 8 | 23 27 | 0 18 | 18 46 | 1 19 | 14 25 | 0 21 | 20 30 | 1 22 | 11 34 | 8 11 | 23 34 | 23 35 | 10 54 | | | n.a. |
| W 8 | 4 46 | 1 22 | 4 58 | 11 1 | 1 13 | 1 12 | 1 24 | 11 22 | 0 8 | 23 27 | 0 18 | 18 47 | 1 18 | 14 25 | 0 21 | 20 30 | 1 22 | 11 34 | 8 11 | 23 33 | 23 35 | 10 51 | | | n.a. |
| T 9 | 5 9 | 4n33 | 5 0 | 11 40 | 1 20 | 0 40 | 1 24 | 11 38 | 0 9 | 23 26 | 0 18 | 18 49 | 1 18 | 14 24 | 0 21 | 20 30 | 1 22 | 11 34 | 8 11 | 23 33 | 23 35 | 10 49 | | | n.a. |
| F 10 | 5 33 | 10 8 | 4 42 | 12 18 | 1 25 | 0 9 | 1 23 | 11 54 | 0 9 | 23 26 | 0 18 | 18 50 | 1 18 | 14 23 | 0 21 | 20 29 | 1 22 | 11 33 | 8 11 | 23 32 | 23 35 | 10 46 | | | n.a. |
| S 11 | 5 57 | 15 4 | 4 5 | 12 56 | 1 31 | 0s22 | 1 22 | 12 10 | 0 10 | 23 26 | 0 18 | 18 51 | 1 18 | 14 23 | 0 21 | 20 29 | 1 22 | 11 33 | 8 11 | 23 32 | 23 35 | 10 44 | | | n.a. |
| S 12 | 6 20 | 19 2 | 3 15 | 13 33 | 1 37 | 0 53 | 1 21 | 12 26 | 0 11 | 23 26 | 0 18 | 18 53 | 1 18 | 14 22 | 0 21 | 20 29 | 1 22 | 11 33 | 8 11 | 23 31 | 23 34 | 10 41 | | | n.a. |
| M13 | 6 44 | 21 49 | 2 15 | 14 9 | 1 43 | 1 24 | 1 20 | 12 42 | 0 11 | 23 26 | 0 19 | 18 54 | 1 18 | 14 21 | 0 21 | 20 29 | 1 22 | 11 32 | 8 11 | 23 31 | 23 34 | 10 38 | | | n.a. |
| T 14 | 7 7 | 23 19 | 1 9 | 14 44 | 1 48 | 1 55 | 1 19 | 12 58 | 0 12 | 23 25 | 0 19 | 18 56 | 1 17 | 14 20 | 0 21 | 20 29 | 1 22 | 11 32 | 8 11 | 23 31 | 23 34 | 10 36 | | | n.a. |
| W15 | 7 30 | 23 31 | 0 2 | 15 19 | 1 53 | 2 26 | 1 18 | 13 13 | 0 13 | 23 25 | 0 19 | 18 57 | 1 17 | 14 20 | 0 21 | 20 28 | 1 22 | 11 32 | 8 11 | 23 31 | 23 34 | 10 33 | | | n.a. |
| T 16 | 7 53 | 22 32 | 1s 4 | 15 53 | 1 58 | 2 57 | 1 16 | 13 29 | 0 13 | 23 25 | 0 19 | 18 58 | 1 17 | 14 19 | 0 21 | 20 28 | 1 22 | 11 32 | 8 11 | 23 31 | 23 34 | 10 31 | | | n.a. |
| F 17 | 8 17 | 20 31 | 2 6 | 16 26 | 2 3 | 3 28 | 1 15 | 13 45 | 0 14 | 23 25 | 0 19 | 19 0 | 1 17 | 14 18 | 0 21 | 20 28 | 1 22 | 11 31 | 8 12 | 23 31 | 23 34 | 10 28 | | | n.a. |
| S 18 | 8 39 | 17 37 | 3 1 | 16 58 | 2 7 | 3 59 | 1 14 | 14 0 | 0 15 | 23 25 | 0 20 | 19 1 | 1 17 | 14 17 | 0 21 | 20 28 | 1 22 | 11 31 | 8 12 | 23 31 | 23 34 | 10 25 | | | n.a. |
| S 19 | 9 2 | 14 2 | 3 47 | 17 29 | 2 11 | 4 30 | 1 12 | 14 15 | 0 15 | 23 25 | 0 20 | 19 3 | 1 17 | 14 17 | 0 21 | 20 28 | 1 22 | 11 31 | 8 12 | 23 31 | 23 33 | 10 23 | | | n.a. |
| M20 | 9 25 | 9 55 | 4 24 | 17 58 | 2 15 | 5 1 | 1 11 | 14 30 | 0 16 | 23 25 | 0 20 | 19 4 | 1 17 | 14 16 | 0 21 | 20 27 | 1 22 | 11 31 | 8 12 | 23 30 | 23 33 | 10 20 | | | n.a. |
| T 21 | 9 47 | 5 25 | 4 50 | 18 27 | 2 18 | 5 31 | 1 10 | 14 46 | 0 17 | 23 25 | 0 20 | 19 6 | 1 17 | 14 15 | 0 21 | 20 27 | 1 22 | 11 30 | 8 12 | 23 30 | 23 33 | 10 18 | | | n.a. |
| W22 | 10 10 | 0 40 | 5 3 | 18 55 | 2 22 | 6 2 | 1 8 | 15 0 | 0 17 | 23 25 | 0 20 | 19 7 | 1 16 | 14 14 | 0 21 | 20 27 | 1 22 | 11 30 | 8 12 | 23 30 | 23 33 | 10 15 | | | n.a. |
| T 23 | 10 32 | 4s10 | 5 3 | 19 21 | 2 24 | 6 32 | 1 6 | 15 15 | 0 18 | 23 25 | 0 20 | 19 8 | 1 16 | 14 13 | 0 21 | 20 27 | 1 22 | 11 30 | 8 12 | 23 29 | 23 33 | 10 13 | | | n.a. |
| F 24 | 10 54 | 8 55 | 4 48 | 19 47 | 2 27 | 7 3 | 1 5 | 15 30 | 0 18 | 23 25 | 0 21 | 19 10 | 1 16 | 14 13 | 0 21 | 20 27 | 1 22 | 11 29 | 8 12 | 23 28 | 23 33 | 10 10 | | | n.a. |
| S 25 | 11 16 | 13 23 | 4 20 | 20 11 | 2 29 | 7 33 | 1 3 | 15 45 | 0 19 | 23 25 | 0 21 | 19 11 | 1 16 | 14 12 | 0 21 | 20 26 | 1 22 | 11 29 | 8 12 | 23 28 | 23 32 | 10 7 | | | n.a. |
| S 26 | 11 38 | 17 20 | 3 37 | 20 33 | 2 30 | 8 3 | 1 1 | 15 59 | 0 20 | 23 25 | 0 21 | 19 13 | 1 16 | 14 11 | 0 21 | 20 26 | 1 22 | 11 29 | 8 12 | 23 27 | 23 32 | 10 5 | | | n.a. |
| M27 | 11 59 | 20 29 | 2 43 | 20 54 | 2 31 | 8 33 | 1 0 | 16 13 | 0 20 | 23 25 | 0 21 | 19 14 | 1 16 | 14 10 | 0 21 | 20 26 | 1 22 | 11 29 | 8 12 | 23 27 | 23 32 | 10 2 | | | n.a. |
| T 28 | 12 20 | 22 37 | 1 39 | 21 13 | 2 31 | 9 2 | 0 58 | 16 28 | 0 21 | 23 25 | 0 21 | 19 16 | 1 16 | 14 9 | 0 21 | 20 26 | 1 22 | 11 28 | 8 12 | 23 27 | 23 32 | 10 0 | | | n.a. |
| W29 | 12 42 | 23 28 | 0 28 | 21 31 | 2 31 | 9 32 | 0 56 | 16 42 | 0 22 | 23 25 | 0 22 | 19 17 | 1 16 | 14 9 | 0 21 | 20 25 | 1 22 | 11 28 | 8 12 | 23 26 | 23 32 | 9 57 | | | n.a. |
| T 30 | 13 2 | 22 57 | 0n45 | 21 46 | 2 29 | 10 1 | 0 54 | 16 56 | 0 22 | 23 25 | 0 22 | 19 19 | 1 15 | 14 8 | 0 21 | 20 25 | 1 22 | 11 28 | 8 12 | 23 26 | 23 32 | 9 54 | | | n.a. |
| F 31 | 13s23 | 21s 3 | 1n56 | 22s 0 | 2s28 | 10s30 | 0n52 | 17s 9 | 0s23 | 23n25 | 0n22 | 19s20 | 1n15 | 14n 7 | 0s21 | 20n25 | 1s22 | 11n28 | 8s12 | 23s26 | 23s32 | 9n52 | | | n.a. |

Julian Day Number = 1694302.5, Delta T = 03h08m51s
Ecliptic obliquity = 23°42'14, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°05'22, Lahiri = - 4°58'22 Julian Calendar 1 Oct. 75 BCE == Greg. Calendar 29 Sept. 075 BCE

The year -74 astronomical counting style corresponds to year 075 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 75 BCE
# geocentric

## NOVEMBER 75 BCE (-74) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 28 50 | 6♏10'40 | 27♑42 | 27♏37 | 0♏27 | 16♏42 | 13♋ 3 | 1♐ 1 | 8°R19 | 7°R16 | 25°R50 | 21♐44 | 23♐ 7 | 22♌56 | n.a. | S 1 |
| S 2 | 2 32 46 | 7°11'38 | 11♒46 | 28°34 | 1°43 | 17°27 | 13°R 3 | 1° 7 | 8♉17 | 7♊14 | 25♉49 | 21°R44 | 23° 4 | 23° 2 | n.a. | S 2 |
| M 3 | 2 36 43 | 8°12'36 | 25°59 | 29°26 | 2°58 | 18°12 | 13° 3 | 1°14 | 8°14 | 7°13 | 25°48 | 21°43 | 23° 0 | 23° 9 | n.a. | M 3 |
| T 4 | 2 40 39 | 9°13'35 | 10♓18 | 0♐13 | 4°14 | 18°57 | 13° 3 | 1°21 | 8°12 | 7°11 | 25°47 | 21°39 | 22°57 | 23°16 | n.a. | T 4 |
| W 5 | 2 44 36 | 10°14'34 | 24°40 | 0°54 | 5°29 | 19°42 | 13° 3 | 1°27 | 8° 9 | 7°10 | 25°45 | 21°34 | 22°54 | 23°23 | n.a. | W 5 |
| T 6 | 2 48 32 | 11°15'35 | 9♈ 1 | 1°28 | 6°45 | 20°27 | 13° 2 | 1°34 | 8° 6 | 7° 8 | 25°44 | 21°28 | 22°51 | 23°29 | n.a. | T 6 |
| F 7 | 2 52 29 | 12°16'36 | 23°16 | 1°54 | 8° 0 | 21°12 | 13° 1 | 1°41 | 8° 4 | 7° 7 | 25°43 | 21°21 | 22°48 | 23°36 | n.a. | F 7 |
| S 8 | 2 56 26 | 13°17'38 | 7♉18 | 2°12 | 9°16 | 21°58 | 13° 0 | 1°48 | 8° 1 | 7° 5 | 25°42 | 21°15 | 22°44 | 23°43 | n.a. | S 8 |
| S 9 | 3 0 22 | 14°18'42 | 21° 4 | 2°R20 | 10°32 | 22°43 | 12°59 | 1°54 | 7°59 | 7° 4 | 25°41 | 21°10 | 22°41 | 23°49 | n.a. | S 9 |
| M10 | 3 4 19 | 15°19'46 | 4♊30 | 2°19 | 11°47 | 23°28 | 12°57 | 2° 1 | 7°56 | 7° 2 | 25°40 | 21° 7 | 22°38 | 23°56 | n.a. | M10 |
| T 11 | 3 8 15 | 16°20'51 | 17°35 | 2° 6 | 13° 3 | 24°14 | 12°55 | 2° 8 | 7°54 | 7° 1 | 25°39 | 21°D 6 | 22°35 | 24° 3 | n.a. | T 11 |
| W12 | 3 12 12 | 17°21'57 | 0♋19 | 1°43 | 14°18 | 24°59 | 12°54 | 2°15 | 7°51 | 6°59 | 25°37 | 21° 6 | 22°32 | 24° 9 | n.a. | W12 |
| T 13 | 3 16 8 | 18°23'04 | 12°45 | 1° 7 | 15°34 | 25°45 | 12°51 | 2°22 | 7°49 | 6°57 | 25°36 | 21° 7 | 22°29 | 24°16 | n.a. | T 13 |
| F 14 | 3 20 5 | 19°24'12 | 24°55 | 0°21 | 16°50 | 26°30 | 12°49 | 2°29 | 7°46 | 6°56 | 25°35 | 21° 9 | 22°25 | 24°23 | n.a. | F 14 |
| S 15 | 3 24 2 | 20°25'21 | 6♌54 | 29♏24 | 18° 5 | 27°16 | 12°47 | 2°36 | 7°44 | 6°54 | 25°34 | 21°11 | 22°22 | 24°30 | n.a. | S 15 |
| S 16 | 3 27 58 | 21°26'30 | 18°46 | 28°17 | 19°21 | 28° 1 | 12°44 | 2°43 | 7°42 | 6°53 | 25°33 | 21°R12 | 22°19 | 24°36 | n.a. | S 16 |
| M17 | 3 31 55 | 22°27'41 | 0♍38 | 27° 3 | 20°36 | 28°47 | 12°41 | 2°50 | 7°39 | 6°51 | 25°32 | 21°11 | 22°16 | 24°43 | n.a. | M17 |
| T 18 | 3 35 51 | 23°28'52 | 12°32 | 25°43 | 21°52 | 29°33 | 12°38 | 2°57 | 7°37 | 6°49 | 25°30 | 21°10 | 22°13 | 24°50 | n.a. | T 18 |
| W19 | 3 39 48 | 24°30'05 | 24°36 | 24°21 | 23° 7 | 0♐18 | 12°35 | 3° 4 | 7°34 | 6°48 | 25°29 | 21° 7 | 22° 9 | 24°56 | n.a. | W19 |
| T 20 | 3 43 44 | 25°31'18 | 6♎51 | 22°59 | 24°23 | 1° 4 | 12°32 | 3°11 | 7°32 | 6°46 | 25°28 | 21° 3 | 22° 6 | 25° 3 | n.a. | T 20 |
| F 21 | 3 47 41 | 26°32'31 | 19°22 | 21°39 | 25°39 | 1°50 | 12°28 | 3°18 | 7°30 | 6°44 | 25°27 | 20°59 | 22° 3 | 25°10 | n.a. | F 21 |
| S 22 | 3 51 37 | 27°33'45 | 2♏10 | 20°24 | 26°54 | 2°36 | 12°24 | 3°25 | 7°27 | 6°43 | 25°26 | 20°55 | 22° 0 | 25°17 | n.a. | S 22 |
| S 23 | 3 55 34 | 28°35'00 | 15°16 | 19°17 | 28°10 | 3°22 | 12°20 | 3°32 | 7°25 | 6°41 | 25°24 | 20°51 | 21°57 | 25°23 | n.a. | S 23 |
| M24 | 3 59 31 | 29°36'16 | 28°39 | 18°19 | 29°25 | 4° 8 | 12°16 | 3°39 | 7°23 | 6°39 | 25°23 | 20°49 | 21°54 | 25°30 | n.a. | M24 |
| T 25 | 4 3 27 | 0♐37'31 | 12♐19 | 17°31 | 0♐41 | 4°54 | 12°12 | 3°46 | 7°20 | 6°38 | 25°22 | 20°48 | 21°50 | 25°37 | n.a. | T 25 |
| W26 | 4 7 24 | 1°38'47 | 26°11 | 16°54 | 1°56 | 5°40 | 12° 7 | 3°53 | 7°18 | 6°36 | 25°21 | 20°D48 | 21°47 | 25°43 | n.a. | W26 |
| T 27 | 4 11 20 | 2°40'03 | 10♑13 | 16°27 | 3°12 | 6°26 | 12° 2 | 4° 0 | 7°16 | 6°34 | 25°20 | 20°48 | 21°44 | 25°50 | n.a. | T 27 |
| F 28 | 4 15 17 | 3°41'19 | 24°22 | 16°11 | 4°27 | 7°12 | 11°58 | 4° 7 | 7°14 | 6°33 | 25°19 | 20°50 | 21°41 | 25°57 | n.a. | F 28 |
| S 29 | 4 19 13 | 4°42'35 | 8♒35 | 16°D 5 | 5°43 | 7°58 | 11°53 | 4°14 | 7°11 | 6°31 | 25°17 | 20°51 | 21°38 | 26° 4 | n.a. | S 29 |
| S 30 | 4 23 10 | 5♐43'51 | 22♒48 | 16♏ 8 | 6♐58 | 8♐45 | 11♋47 | 4♐21 | 7♉ 9 | 6♊29 | 25♉16 | 20♐52 | 21♐35 | 26♌10 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 13 s44 | 17 s53 | 3n 2 | 22 s12 | 2 s25 | 10 s58 | 0n50 | 17 s23 | 0 s23 | 23n25 | 0n22 | 19 s22 | 1n15 | 14n 6 | 0 s21 | 20n25 | 1 s22 | 11n27 | 8 s12 | 23 s27 | 23 s31 | 9n49 | | n.a. |
| S 2 | 14 4 | 13 39 | 3 57 | 22 21 | 2 21 | 11 27 | 0 48 | 17 37 | 0 24 | 23 26 | 0 22 | 19 23 | 1 15 | 14 5 | 0 21 | 20 24 | 1 22 | 11 27 | 8 12 | 23 27 | 23 31 | 9 47 | | n.a. |
| M 3 | 14 24 | 8 38 | 4 39 | 22 28 | 2 17 | 11 55 | 0 46 | 17 50 | 0 25 | 23 26 | 0 23 | 19 25 | 1 15 | 14 5 | 0 21 | 20 24 | 1 22 | 11 27 | 8 12 | 23 26 | 23 31 | 9 44 | | n.a. |
| T 4 | 14 44 | 3 7 | 5 3 | 22 33 | 2 11 | 12 23 | 0 44 | 18 3 | 0 25 | 23 26 | 0 23 | 19 26 | 1 15 | 14 4 | 0 21 | 20 24 | 1 22 | 11 26 | 8 12 | 23 26 | 23 31 | 9 41 | | n.a. |
| W 5 | 15 3 | 2n35 | 5 9 | 22 35 | 2 4 | 12 50 | 0 42 | 18 16 | 0 26 | 23 26 | 0 23 | 19 28 | 1 15 | 14 3 | 0 21 | 20 24 | 1 22 | 11 26 | 8 12 | 23 26 | 23 31 | 9 39 | | n.a. |
| T 6 | 15 22 | 8 7 | 4 55 | 22 34 | 1 56 | 13 17 | 0 40 | 18 29 | 0 26 | 23 27 | 0 23 | 19 29 | 1 15 | 14 2 | 0 21 | 20 23 | 1 22 | 11 26 | 8 12 | 23 26 | 23 30 | 9 36 | | n.a. |
| F 7 | 15 41 | 13 12 | 4 23 | 22 31 | 1 47 | 13 44 | 0 38 | 18 42 | 0 27 | 23 27 | 0 23 | 19 30 | 1 15 | 14 1 | 0 21 | 20 23 | 1 22 | 11 26 | 8 12 | 23 25 | 23 30 | 9 34 | | n.a. |
| S 8 | 16 0 | 17 29 | 3 36 | 22 24 | 1 36 | 14 11 | 0 36 | 18 54 | 0 28 | 23 27 | 0 24 | 19 32 | 1 15 | 14 1 | 0 21 | 20 23 | 1 22 | 11 25 | 8 12 | 23 25 | 23 30 | 9 31 | | n.a. |
| S 9 | 16 19 | 20 44 | 2 36 | 22 13 | 1 24 | 14 37 | 0 33 | 19 7 | 0 28 | 23 27 | 0 24 | 19 33 | 1 14 | 14 0 | 0 21 | 20 23 | 1 22 | 11 25 | 8 12 | 23 24 | 23 30 | 9 28 | | n.a. |
| M10 | 16 37 | 22 44 | 1 29 | 22 0 | 1 10 | 15 3 | 0 31 | 19 19 | 0 29 | 23 28 | 0 24 | 19 35 | 1 14 | 13 59 | 0 21 | 20 22 | 1 22 | 11 25 | 8 12 | 23 24 | 23 30 | 9 26 | | n.a. |
| T 11 | 16 55 | 23 26 | 0 19 | 21 42 | 0 55 | 15 28 | 0 29 | 19 31 | 0 29 | 23 28 | 0 24 | 19 36 | 1 14 | 13 58 | 0 21 | 20 22 | 1 22 | 11 25 | 8 12 | 23 24 | 23 30 | 9 23 | | n.a. |
| W12 | 17 12 | 22 52 | 0 s50 | 21 21 | 0 38 | 15 53 | 0 27 | 19 43 | 0 30 | 23 29 | 0 24 | 19 38 | 1 14 | 13 57 | 0 21 | 20 22 | 1 22 | 11 24 | 8 12 | 23 24 | 23 29 | 9 21 | | n.a. |
| T 13 | 17 29 | 21 10 | 1 56 | 20 56 | 0 20 | 16 18 | 0 24 | 19 54 | 0 31 | 23 29 | 0 25 | 19 39 | 1 14 | 13 56 | 0 21 | 20 22 | 1 22 | 11 24 | 8 12 | 23 24 | 23 29 | 9 18 | | n.a. |
| F 14 | 17 46 | 18 31 | 2 54 | 20 28 | 0 1 | 16 42 | 0 22 | 20 6 | 0 31 | 23 29 | 0 25 | 19 41 | 1 14 | 13 56 | 0 21 | 20 21 | 1 22 | 11 24 | 8 12 | 23 24 | 23 29 | 9 15 | | n.a. |
| S 15 | 18 3 | 15 8 | 3 45 | 19 56 | 0n19 | 17 5 | 0 20 | 20 17 | 0 32 | 23 30 | 0 25 | 19 42 | 1 14 | 13 55 | 0 21 | 20 21 | 1 22 | 11 24 | 8 12 | 23 24 | 23 29 | 9 13 | | n.a. |
| S 16 | 18 19 | 11 10 | 4 25 | 19 22 | 0 39 | 17 29 | 0 17 | 20 28 | 0 32 | 23 30 | 0 25 | 19 44 | 1 14 | 13 54 | 0 21 | 20 21 | 1 22 | 11 23 | 8 12 | 23 24 | 23 29 | 9 10 | | n.a. |
| M17 | 18 35 | 6 48 | 4 54 | 18 45 | 1 0 | 17 51 | 0 15 | 20 39 | 0 33 | 23 31 | 0 25 | 19 45 | 1 14 | 13 53 | 0 21 | 20 20 | 1 22 | 11 23 | 8 12 | 23 24 | 23 28 | 9 8 | | n.a. |
| T 18 | 18 51 | 2 9 | 5 10 | 18 7 | 1 20 | 18 14 | 0 13 | 20 49 | 0 34 | 23 31 | 0 26 | 19 46 | 1 14 | 13 53 | 0 21 | 20 20 | 1 22 | 11 23 | 8 12 | 23 24 | 23 28 | 9 5 | | n.a. |
| W19 | 19 6 | 2 s37 | 5 13 | 17 29 | 1 39 | 18 35 | 0 10 | 21 0 | 0 34 | 23 32 | 0 26 | 19 48 | 1 14 | 13 52 | 0 21 | 20 20 | 1 22 | 11 23 | 8 12 | 23 24 | 23 28 | 9 2 | | n.a. |
| T 20 | 19 21 | 7 21 | 5 2 | 16 51 | 1 56 | 18 57 | 0 8 | 21 10 | 0 35 | 23 32 | 0 26 | 19 49 | 1 13 | 13 51 | 0 21 | 20 20 | 1 22 | 11 23 | 8 12 | 23 24 | 23 28 | 9 0 | | n.a. |
| F 21 | 19 36 | 11 54 | 4 36 | 16 15 | 2 12 | 19 17 | 0 6 | 21 20 | 0 35 | 23 33 | 0 26 | 19 51 | 1 13 | 13 50 | 0 21 | 20 19 | 1 22 | 11 22 | 8 12 | 23 24 | 23 28 | 8 57 | | n.a. |
| S 22 | 19 50 | 16 3 | 3 56 | 15 43 | 2 25 | 19 38 | 0 3 | 21 30 | 0 36 | 23 33 | 0 26 | 19 52 | 1 13 | 13 49 | 0 21 | 20 19 | 1 22 | 11 22 | 8 12 | 23 23 | 23 28 | 8 54 | | n.a. |
| S 23 | 20 4 | 19 31 | 3 3 | 15 14 | 2 37 | 19 57 | 0 1 | 21 39 | 0 36 | 23 34 | 0 27 | 19 54 | 1 13 | 13 49 | 0 21 | 20 19 | 1 22 | 11 22 | 8 12 | 23 23 | 23 27 | 8 52 | | n.a. |
| M24 | 20 17 | 22 1 | 1 59 | 14 49 | 2 46 | 20 16 | 0 s 2 | 21 49 | 0 37 | 23 34 | 0 27 | 19 55 | 1 13 | 13 48 | 0 21 | 20 18 | 1 22 | 11 22 | 8 12 | 23 23 | 23 27 | 8 49 | | n.a. |
| T 25 | 20 30 | 23 17 | 0 47 | 14 29 | 2 52 | 20 35 | 0 4 | 21 58 | 0 37 | 23 35 | 0 27 | 19 56 | 1 13 | 13 47 | 0 21 | 20 18 | 1 22 | 11 21 | 8 12 | 23 23 | 23 27 | 8 47 | | n.a. |
| W26 | 20 43 | 23 9 | 0n30 | 14 14 | 2 57 | 20 53 | 0 6 | 22 7 | 0 38 | 23 36 | 0 27 | 19 58 | 1 13 | 13 47 | 0 21 | 20 18 | 1 22 | 11 21 | 8 11 | 23 23 | 23 27 | 8 44 | | n.a. |
| T 27 | 20 55 | 21 33 | 1 45 | 14 4 | 3 0 | 21 10 | 0 9 | 22 15 | 0 39 | 23 36 | 0 27 | 19 59 | 1 13 | 13 46 | 0 21 | 20 18 | 1 22 | 11 21 | 8 11 | 23 23 | 23 27 | 8 41 | | n.a. |
| F 28 | 21 7 | 18 36 | 2 55 | 13 59 | 3 0 | 21 27 | 0 11 | 22 24 | 0 39 | 23 37 | 0 28 | 20 1 | 1 13 | 13 45 | 0 21 | 20 17 | 1 22 | 11 21 | 8 11 | 23 23 | 23 26 | 8 39 | | n.a. |
| S 29 | 21 19 | 14 33 | 3 54 | 13 58 | 3 0 | 21 43 | 0 13 | 22 32 | 0 40 | 23 38 | 0 28 | 20 2 | 1 13 | 13 44 | 0 21 | 20 17 | 1 22 | 11 21 | 8 11 | 23 23 | 23 26 | 8 36 | | n.a. |
| S 30 | 21 s30 | 9 s40 | 4n39 | 14 s 1 | 2n57 | 21 s58 | 0 s16 | 22 s40 | 0 s40 | 23n38 | 0n28 | 20 s 3 | 1n13 | 13n44 | 0 s21 | 20n17 | 1 s22 | 11n20 | 8 s11 | 23 s23 | 23 s26 | 8n34 | | n.a. |

Julian Day Number = 1694333.5, Delta T = 03h08m50s
Ecliptic obliquity = 23°42'14, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°05'18, Lahiri = - 4°58'17 Julian Calendar 1 Nov. 75 BCE == Greg. Calendar 30 Oct. 075 BCE

The year -74 astronomical counting style corresponds to year 075 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 75 BCE
# geocentric

## DECEMBER 75 BCE (-74) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 4 27 6 | 6♐45'06 | 6♓59 | 16♏21 | 8♐14 | 9♐31 | 11°R42 | 4♐28 | 7°R 7 | 6°R27 | 25°R15 | 20°R52 | 21♐31 | 26♌17 | n.a. | M 1 |
| T 2 | 4 31 3 | 7°46'21 | 21° 7 | 16°41 | 9°29 | 10°17 | 11♋37 | 4°35 | 7♉ 5 | 6♊26 | 25♉14 | 20♐52 | 21°28 | 26°24 | n.a. | T 2 |
| W 3 | 4 35 0 | 8°47'36 | 5♈ 9 | 17° 8 | 10°45 | 11° 4 | 11°31 | 4°42 | 7° 3 | 6°24 | 25°13 | 20°51 | 21°25 | 26°30 | n.a. | W 3 |
| T 4 | 4 38 56 | 9°48'50 | 19° 3 | 17°42 | 12° 0 | 11°50 | 11°25 | 4°49 | 7° 1 | 6°22 | 25°12 | 20°50 | 21°22 | 26°37 | n.a. | T 4 |
| F 5 | 4 42 53 | 10°50'04 | 2♉48 | 18°22 | 13°16 | 12°36 | 11°19 | 4°56 | 6°59 | 6°21 | 25°11 | 20°48 | 21°19 | 26°44 | n.a. | F 5 |
| S 6 | 4 46 49 | 11°51'18 | 16°21 | 19° 7 | 14°31 | 13°23 | 11°13 | 5° 3 | 6°57 | 6°19 | 25° 9 | 20°47 | 21°15 | 26°51 | n.a. | S 6 |
| S 7 | 4 50 46 | 12°52'32 | 29°41 | 19°57 | 15°47 | 14° 9 | 11° 7 | 5°10 | 6°55 | 6°17 | 25° 8 | 20°46 | 21°12 | 26°57 | n.a. | S 7 |
| M 8 | 4 54 42 | 13°53'45 | 12♊46 | 20°51 | 17° 2 | 14°56 | 11° 1 | 5°17 | 6°53 | 6°16 | 25° 7 | 20°46 | 21° 9 | 27° 4 | n.a. | M 8 |
| T 9 | 4 58 39 | 14°54'58 | 25°37 | 21°49 | 18°18 | 15°42 | 10°54 | 5°24 | 6°51 | 6°14 | 25° 6 | 20°D45 | 21° 6 | 27°11 | n.a. | T 9 |
| W10 | 5 2 36 | 15°56'11 | 8♋12 | 22°50 | 19°33 | 16°29 | 10°48 | 5°31 | 6°50 | 6°12 | 25° 5 | 20°46 | 21° 3 | 27°17 | n.a. | W10 |
| T 11 | 5 6 32 | 16°57'24 | 20°33 | 23°54 | 20°48 | 17°15 | 10°41 | 5°38 | 6°48 | 6°11 | 25° 4 | 20°46 | 21° 0 | 27°24 | n.a. | T 11 |
| F 12 | 5 10 29 | 17°58'36 | 2♌41 | 25° 1 | 22° 4 | 18° 2 | 10°34 | 5°45 | 6°46 | 6° 9 | 25° 3 | 20°47 | 20°56 | 27°31 | n.a. | F 12 |
| S 13 | 5 14 25 | 18°59'48 | 14°41 | 26°10 | 23°19 | 18°49 | 10°27 | 5°52 | 6°44 | 6° 7 | 25° 2 | 20°47 | 20°53 | 27°38 | n.a. | S 13 |
| S 14 | 5 18 22 | 20° 1'00 | 26°34 | 27°21 | 24°35 | 19°35 | 10°20 | 5°59 | 6°43 | 6° 6 | 25° 1 | 20°47 | 20°50 | 27°44 | n.a. | S 14 |
| M15 | 5 22 18 | 21° 2'12 | 8♍26 | 28°34 | 25°50 | 20°22 | 10°13 | 6° 6 | 6°41 | 6° 4 | 25° 0 | 20°R47 | 20°47 | 27°51 | n.a. | M15 |
| T 16 | 5 26 15 | 22° 3'23 | 20°20 | 29°49 | 27° 5 | 21° 9 | 10° 6 | 6°13 | 6°39 | 6° 2 | 24°59 | 20°D47 | 20°44 | 27°58 | n.a. | T 16 |
| W17 | 5 30 11 | 23° 4'34 | 2♎22 | 1♑ 6 | 28°21 | 21°55 | 9°58 | 6°20 | 6°38 | 6° 1 | 24°57 | 20°47 | 20°41 | 28° 4 | n.a. | W17 |
| T 18 | 5 34 8 | 24° 5'44 | 14°35 | 2°24 | 29°36 | 22°42 | 9°51 | 6°26 | 6°36 | 5°59 | 24°56 | 20°47 | 20°37 | 28°11 | n.a. | T 18 |
| F 19 | 5 38 5 | 25° 6'55 | 27° 5 | 3°43 | 0♑51 | 23°29 | 9°43 | 6°33 | 6°35 | 5°57 | 24°55 | 20°48 | 20°34 | 28°18 | n.a. | F 19 |
| S 20 | 5 42 1 | 26° 8'05 | 9♏55 | 5° 3 | 2° 7 | 24°16 | 9°36 | 6°40 | 6°34 | 5°56 | 24°54 | 20°48 | 20°31 | 28°24 | n.a. | S 20 |
| S 21 | 5 45 58 | 27° 9'14 | 23° 8 | 6°25 | 3°22 | 25° 3 | 9°28 | 6°47 | 6°32 | 5°54 | 24°53 | 20°49 | 20°28 | 28°31 | n.a. | S 21 |
| M22 | 5 49 54 | 28°10'23 | 6♐44 | 7°47 | 4°37 | 25°50 | 9°20 | 6°54 | 6°31 | 5°53 | 24°53 | 20°49 | 20°25 | 28°38 | n.a. | M22 |
| T 23 | 5 53 51 | 29°11'31 | 20°42 | 9°11 | 5°53 | 26°37 | 9°13 | 7° 0 | 6°30 | 5°51 | 24°52 | 20°R49 | 20°21 | 28°45 | n.a. | T 23 |
| W24 | 5 57 47 | 0♑12'39 | 4♑59 | 10°35 | 7° 8 | 27°24 | 9° 5 | 7° 7 | 6°28 | 5°50 | 24°51 | 20°49 | 20°18 | 28°51 | n.a. | W24 |
| T 25 | 6 1 44 | 1°13'46 | 19°30 | 12° 1 | 8°23 | 28°11 | 8°57 | 7°14 | 6°27 | 5°48 | 24°50 | 20°48 | 20°15 | 28°58 | n.a. | T 25 |
| F 26 | 6 5 40 | 2°14'51 | 4♒ 9 | 13°27 | 9°39 | 28°58 | 8°49 | 7°20 | 6°26 | 5°47 | 24°49 | 20°47 | 20°12 | 29° 5 | n.a. | F 26 |
| S 27 | 6 9 37 | 3°15'55 | 18°50 | 14°54 | 10°54 | 29°45 | 8°41 | 7°27 | 6°25 | 5°45 | 24°48 | 20°46 | 20° 9 | 29°12 | n.a. | S 27 |
| S 28 | 6 13 34 | 4°16'59 | 3♓25 | 16°22 | 12° 9 | 0♑32 | 8°33 | 7°34 | 6°24 | 5°44 | 24°47 | 20°44 | 20° 6 | 29°18 | n.a. | S 28 |
| M29 | 6 17 30 | 5°18'00 | 17°50 | 17°50 | 13°24 | 1°19 | 8°25 | 7°40 | 6°23 | 5°42 | 24°46 | 20°43 | 20° 2 | 29°25 | n.a. | M29 |
| T 30 | 6 21 27 | 6°19'01 | 2♈ 1 | 19°19 | 14°40 | 2° 6 | 8°17 | 7°47 | 6°22 | 5°41 | 24°45 | 20°D42 | 19°59 | 29°32 | n.a. | T 30 |
| W31 | 6 25 23 | 7♑20'00 | 15♈56 | 20♐49 | 15♑55 | 2♑53 | 8♋ 9 | 7♐53 | 6♉21 | 5♊39 | 24♉44 | 20♐42 | 19♐56 | 29♌38 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| M 1 | 21s41 | 4s17 | 5n 7 | 14s 8 | 2n54 | 22s13 | 0s18 | 22s48 | 0s41 | 23n39 | 0n28 | 20s 5 | 1n13 | 13n43 | 0s21 | 20n17 | 1s22 | 11n20 | 8s11 | 23s23 | 23s26 | 8n31 | | | n.a. |
| T 2 | 21 51 | 1n17 | 5 16 | 14 18 | 2 50 | 22 27 | 0 20 | 22 55 | 0 41 | 23 40 | 0 28 | 20 6 | 1 13 | 13 42 | 0 21 | 20 16 | 1 22 | 11 20 | 8 11 | 23 23 | 23 26 | 8 28 | | | n.a. |
| W 3 | 22 1 | 6 45 | 5 7 | 14 31 | 2 44 | 22 41 | 0 23 | 23 2 | 0 42 | 23 40 | 0 29 | 20 7 | 1 13 | 13 42 | 0 21 | 20 16 | 1 22 | 11 20 | 8 11 | 23 23 | 23 25 | 8 26 | | | n.a. |
| T 4 | 22 10 | 11 50 | 4 39 | 14 46 | 2 38 | 22 53 | 0 25 | 23 9 | 0 42 | 23 41 | 0 29 | 20 9 | 1 13 | 13 41 | 0 20 | 20 16 | 1 22 | 11 20 | 8 11 | 23 23 | 23 25 | 8 23 | | | n.a. |
| F 5 | 22 19 | 16 15 | 3 56 | 15 3 | 2 32 | 23 6 | 0 27 | 23 16 | 0 43 | 23 42 | 0 29 | 20 10 | 1 13 | 13 40 | 0 20 | 20 15 | 1 22 | 11 20 | 8 11 | 23 23 | 23 25 | 8 20 | | | n.a. |
| S 6 | 22 27 | 19 46 | 2 59 | 15 22 | 2 25 | 23 17 | 0 29 | 23 22 | 0 43 | 23 42 | 0 29 | 20 11 | 1 12 | 13 40 | 0 20 | 20 15 | 1 22 | 11 19 | 8 11 | 23 23 | 23 25 | 8 18 | | | n.a. |
| S 7 | 22 36 | 22 10 | 1 54 | 15 43 | 2 18 | 23 28 | 0 32 | 23 29 | 0 44 | 23 43 | 0 29 | 20 13 | 1 12 | 13 39 | 0 20 | 20 15 | 1 22 | 11 19 | 8 11 | 23 23 | 23 24 | 8 15 | | | n.a. |
| M 8 | 22 43 | 23 19 | 0 44 | 16 5 | 2 10 | 23 38 | 0 34 | 23 35 | 0 44 | 23 44 | 0 29 | 20 14 | 1 12 | 13 39 | 0 20 | 20 15 | 1 22 | 11 19 | 8 10 | 23 23 | 23 24 | 8 13 | | | n.a. |
| T 9 | 22 50 | 23 11 | 0s27 | 16 28 | 2 2 | 23 47 | 0 36 | 23 40 | 0 45 | 23 45 | 0 30 | 20 15 | 1 12 | 13 38 | 0 20 | 20 14 | 1 22 | 11 19 | 8 10 | 23 23 | 23 24 | 8 10 | | | n.a. |
| W10 | 22 57 | 21 52 | 1 35 | 16 51 | 1 54 | 23 55 | 0 38 | 23 46 | 0 45 | 23 45 | 0 30 | 20 17 | 1 12 | 13 37 | 0 20 | 20 14 | 1 22 | 11 19 | 8 10 | 23 23 | 23 24 | 8 7 | | | n.a. |
| T 11 | 23 3 | 19 31 | 2 38 | 17 15 | 1 45 | 24 3 | 0 40 | 23 51 | 0 46 | 23 46 | 0 30 | 20 18 | 1 12 | 13 37 | 0 20 | 20 14 | 1 22 | 11 19 | 8 10 | 23 23 | 23 24 | 8 5 | | | n.a. |
| F 12 | 23 9 | 16 20 | 3 32 | 17 40 | 1 37 | 24 10 | 0 43 | 23 56 | 0 46 | 23 47 | 0 30 | 20 19 | 1 12 | 13 36 | 0 20 | 20 13 | 1 22 | 11 18 | 8 10 | 23 23 | 23 23 | 8 2 | | | n.a. |
| S 13 | 23 15 | 12 31 | 4 17 | 18 4 | 1 28 | 24 16 | 0 45 | 24 0 | 0 47 | 23 47 | 0 30 | 20 20 | 1 12 | 13 36 | 0 20 | 20 13 | 1 22 | 11 18 | 8 10 | 23 23 | 23 23 | 8 0 | | | n.a. |
| S 14 | 23 19 | 8 16 | 4 50 | 18 29 | 1 20 | 24 22 | 0 47 | 24 5 | 0 47 | 23 48 | 0 31 | 20 22 | 1 12 | 13 35 | 0 20 | 20 13 | 1 22 | 11 18 | 8 10 | 23 23 | 23 23 | 7 57 | | | n.a. |
| M15 | 23 24 | 3 43 | 5 10 | 18 54 | 1 11 | 24 27 | 0 49 | 24 9 | 0 48 | 23 49 | 0 31 | 20 23 | 1 12 | 13 35 | 0 20 | 20 13 | 1 22 | 11 18 | 8 10 | 23 23 | 23 23 | 7 54 | | | n.a. |
| T 16 | 23 28 | 0s59 | 5 17 | 19 19 | 1 3 | 24 31 | 0 51 | 24 12 | 0 48 | 23 50 | 0 31 | 20 24 | 1 12 | 13 34 | 0 20 | 20 12 | 1 22 | 11 18 | 8 10 | 23 23 | 23 23 | 7 52 | | | n.a. |
| W17 | 23 31 | 5 42 | 5 11 | 19 43 | 0 55 | 24 34 | 0 53 | 24 16 | 0 49 | 23 50 | 0 31 | 20 25 | 1 12 | 13 34 | 0 20 | 20 12 | 1 22 | 11 18 | 8 9 | 23 23 | 23 22 | 7 49 | | | n.a. |
| T 18 | 23 34 | 10 16 | 4 51 | 20 7 | 0 46 | 24 37 | 0 54 | 24 19 | 0 49 | 23 51 | 0 31 | 20 26 | 1 12 | 13 33 | 0 20 | 20 12 | 1 22 | 11 18 | 8 9 | 23 23 | 23 22 | 7 46 | | | n.a. |
| F 19 | 23 37 | 14 31 | 4 16 | 20 30 | 0 38 | 24 38 | 0 56 | 24 22 | 0 50 | 23 52 | 0 31 | 20 28 | 1 12 | 13 33 | 0 20 | 20 12 | 1 22 | 11 18 | 8 9 | 23 23 | 23 22 | 7 44 | | | n.a. |
| S 20 | 23 39 | 18 14 | 3 28 | 20 53 | 0 30 | 24 39 | 0 58 | 24 25 | 0 50 | 23 53 | 0 32 | 20 29 | 1 12 | 13 32 | 0 20 | 20 11 | 1 22 | 11 18 | 8 9 | 23 23 | 23 22 | 7 41 | | | n.a. |
| S 21 | 23 40 | 21 8 | 2 28 | 21 16 | 0 22 | 24 40 | 1 0 | 24 27 | 0 51 | 23 53 | 0 32 | 20 30 | 1 12 | 13 32 | 0 20 | 20 11 | 1 22 | 11 17 | 8 9 | 23 23 | 23 21 | 7 39 | | | n.a. |
| M22 | 23 41 | 22 57 | 1 17 | 21 38 | 0 14 | 24 39 | 1 2 | 24 29 | 0 51 | 23 54 | 0 32 | 20 31 | 1 12 | 13 31 | 0 20 | 20 11 | 1 22 | 11 17 | 8 9 | 23 23 | 23 21 | 7 36 | | | n.a. |
| T 23 | 23 42 | 23 23 | 0 1 | 21 59 | 0 6 | 24 38 | 1 3 | 24 31 | 0 51 | 23 55 | 0 32 | 20 32 | 1 12 | 13 31 | 0 20 | 20 11 | 1 22 | 11 17 | 8 9 | 23 23 | 23 21 | 7 33 | | | n.a. |
| W24 | 23 42 | 22 19 | 1n18 | 22 19 | 0s 2 | 24 35 | 1 5 | 24 32 | 0 52 | 23 55 | 0 32 | 20 33 | 1 12 | 13 31 | 0 20 | 20 10 | 1 22 | 11 17 | 8 8 | 23 23 | 23 21 | 7 31 | | | n.a. |
| T 25 | 23 42 | 19 45 | 2 32 | 22 38 | 0 9 | 24 33 | 1 7 | 24 34 | 0 52 | 23 56 | 0 32 | 20 35 | 1 12 | 13 30 | 0 20 | 20 10 | 1 22 | 11 17 | 8 8 | 23 23 | 23 20 | 7 28 | | | n.a. |
| F 26 | 23 41 | 15 54 | 3 38 | 22 57 | 0 17 | 24 29 | 1 8 | 24 35 | 0 53 | 23 57 | 0 33 | 20 36 | 1 12 | 13 30 | 0 20 | 20 10 | 1 22 | 11 17 | 8 8 | 23 23 | 23 20 | 7 25 | | | n.a. |
| S 27 | 23 40 | 11 5 | 4 29 | 23 14 | 0 24 | 24 24 | 1 10 | 24 35 | 0 53 | 23 58 | 0 33 | 20 37 | 1 12 | 13 30 | 0 20 | 20 10 | 1 22 | 11 17 | 8 8 | 23 23 | 23 20 | 7 23 | | | n.a. |
| S 28 | 23 38 | 5 40 | 5 2 | 23 31 | 0 31 | 24 19 | 1 11 | 24 36 | 0 54 | 23 58 | 0 33 | 20 38 | 1 12 | 13 29 | 0 20 | 20 9 | 1 22 | 11 17 | 8 8 | 23 23 | 23 20 | 7 20 | | | n.a. |
| M29 | 23 36 | 0 1 | 5 16 | 23 46 | 0 38 | 24 13 | 1 13 | 24 36 | 0 54 | 23 59 | 0 33 | 20 39 | 1 12 | 13 29 | 0 20 | 20 9 | 1 22 | 11 17 | 8 8 | 23 22 | 23 19 | 7 18 | | | n.a. |
| T 30 | 23 33 | 5n32 | 5 10 | 24 1 | 0 45 | 24 7 | 1 14 | 24 36 | 0 54 | 24 0 | 0 33 | 20 40 | 1 12 | 13 29 | 0 20 | 20 9 | 1 22 | 11 17 | 8 7 | 23 22 | 23 19 | 7 15 | | | n.a. |
| W31 | 23s30 | 10n44 | 4n46 | 24s14 | 0s51 | 23s59 | 1s15 | 24s35 | 0s55 | 24n 0 | 0n33 | 20s41 | 1n12 | 13n28 | 0s20 | 20n 9 | 1s22 | 11n17 | 8s 7 | 23s22 | 23s19 | 7n12 | | | n.a. |

Julian Day Number = 1694363.5, Delta T = 03h08m50s
Ecliptic obliquity = 23°42'13, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°05'14, Lahiri = - 4°58'13 Julian Calendar 1 Dec. 75 BCE == Greg. Calendar 29 Nov. 075 BCE

The year -74 astronomical counting style corresponds to year 075 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 74 BCE
# geocentric

## JANUARY 74 BCE (-73) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 29 20 | 8♑20'58 | 29♈35 | 22♐20 | 17♑10 | 3♑40 | 8°R 1 | 7♐59 | 6°R20 | 5°R38 | 24°R44 | 20♐43 | 19♐53 | 29♌45 | n.a. | T 1 |
| F 2 | 6 33 16 | 9°21'54 | 12♉58 | 23°52 | 18°25 | 4°27 | 7♋53 | 8° 6 | 6♉20 | 5♊37 | 24♉43 | 20°45 | 19°50 | 29°52 | n.a. | F 2 |
| S 3 | 6 37 13 | 10°22'49 | 26° 6 | 25°24 | 19°40 | 5°14 | 7°45 | 8°12 | 6°19 | 5°35 | 24°42 | 20°46 | 19°47 | 29°59 | n.a. | S 3 |
| S 4 | 6 41 9 | 11°23'42 | 9♊ 1 | 26°57 | 20°55 | 6° 1 | 7°37 | 8°18 | 6°18 | 5°34 | 24°41 | 20°47 | 19°43 | 0♍ 5 | n.a. | S 4 |
| M 5 | 6 45 6 | 12°24'34 | 21°44 | 28°30 | 22°11 | 6°48 | 7°29 | 8°25 | 6°18 | 5°33 | 24°40 | 20°R48 | 19°40 | 0°12 | n.a. | M 5 |
| T 6 | 6 49 3 | 13°25'25 | 4♋15 | 0♑ 5 | 23°26 | 7°36 | 7°21 | 8°31 | 6°17 | 5°31 | 24°40 | 20°47 | 19°37 | 0°19 | n.a. | T 6 |
| W 7 | 6 52 59 | 14°26'15 | 16°36 | 1°40 | 24°41 | 8°23 | 7°13 | 8°37 | 6°16 | 5°30 | 24°39 | 20°45 | 19°34 | 0°25 | n.a. | W 7 |
| T 8 | 6 56 56 | 15°27'03 | 28°47 | 3°15 | 25°56 | 9°10 | 7° 5 | 8°43 | 6°16 | 5°29 | 24°38 | 20°42 | 19°31 | 0°32 | n.a. | T 8 |
| F 9 | 7 0 52 | 16°27'49 | 10♌50 | 4°52 | 27°11 | 9°57 | 6°58 | 8°49 | 6°15 | 5°28 | 24°38 | 20°38 | 19°27 | 0°39 | n.a. | F 9 |
| S 10 | 7 4 49 | 17°28'35 | 22°48 | 6°29 | 28°26 | 10°44 | 6°50 | 8°55 | 6°15 | 5°27 | 24°37 | 20°33 | 19°24 | 0°46 | n.a. | S 10 |
| S 11 | 7 8 45 | 18°29'19 | 4♍40 | 8° 7 | 29°41 | 11°31 | 6°42 | 9° 1 | 6°15 | 5°25 | 24°36 | 20°28 | 19°21 | 0°52 | n.a. | S 11 |
| M12 | 7 12 42 | 19°30'01 | 16°32 | 9°46 | 0♒56 | 12°19 | 6°34 | 9° 7 | 6°15 | 5°24 | 24°36 | 20°23 | 19°18 | 0°59 | n.a. | M12 |
| T 13 | 7 16 38 | 20°30'43 | 28°25 | 11°26 | 2°11 | 13° 6 | 6°27 | 9°13 | 6°14 | 5°23 | 24°35 | 20°20 | 19°15 | 1° 6 | n.a. | T 13 |
| W14 | 7 20 35 | 21°31'23 | 10♎25 | 13° 7 | 3°26 | 13°53 | 6°19 | 9°19 | 6°14 | 5°22 | 24°35 | 20°18 | 19°12 | 1°12 | n.a. | W14 |
| T 15 | 7 24 32 | 22°32'02 | 22°35 | 14°48 | 4°41 | 14°40 | 6°12 | 9°25 | 6°14 | 5°21 | 24°34 | 20°D17 | 19° 8 | 1°19 | n.a. | T 15 |
| F 16 | 7 28 28 | 23°32'40 | 5♏ 0 | 16°30 | 5°56 | 15°28 | 6° 4 | 9°31 | 6°14 | 5°20 | 24°33 | 20°18 | 19° 5 | 1°26 | n.a. | F 16 |
| S 17 | 7 32 25 | 24°33'16 | 17°45 | 18°14 | 7°11 | 16°15 | 5°57 | 9°36 | 6°D14 | 5°19 | 24°33 | 20°19 | 19° 2 | 1°33 | n.a. | S 17 |
| S 18 | 7 36 21 | 25°33'51 | 0♐54 | 19°58 | 8°25 | 17° 2 | 5°50 | 9°42 | 6°14 | 5°18 | 24°32 | 20°21 | 18°59 | 1°39 | n.a. | S 18 |
| M19 | 7 40 18 | 26°34'25 | 14°30 | 21°43 | 9°40 | 17°50 | 5°43 | 9°47 | 6°14 | 5°17 | 24°32 | 20°R22 | 18°56 | 1°46 | n.a. | M19 |
| T 20 | 7 44 14 | 27°34'57 | 28°32 | 23°28 | 10°55 | 18°37 | 5°36 | 9°53 | 6°14 | 5°16 | 24°31 | 20°22 | 18°53 | 1°53 | n.a. | T 20 |
| W21 | 7 48 11 | 28°35'28 | 13♑ 1 | 25°15 | 12°10 | 19°24 | 5°29 | 9°58 | 6°14 | 5°15 | 24°31 | 20°20 | 18°49 | 1°59 | n.a. | W21 |
| T 22 | 7 52 8 | 29°35'57 | 27°51 | 27° 3 | 13°25 | 20°11 | 5°22 | 10° 4 | 6°15 | 5°14 | 24°31 | 20°16 | 18°46 | 2° 6 | n.a. | T 22 |
| F 23 | 7 56 4 | 0♒36'24 | 12♒54 | 28°51 | 14°40 | 20°59 | 5°16 | 10° 9 | 6°15 | 5°14 | 24°30 | 20°11 | 18°43 | 2°13 | n.a. | F 23 |
| S 24 | 8 0 1 | 1°36'50 | 28° 1 | 0♒41 | 15°54 | 21°46 | 5° 9 | 10°14 | 6°15 | 5°13 | 24°30 | 20° 4 | 18°40 | 2°20 | n.a. | S 24 |
| S 25 | 8 3 57 | 2°37'13 | 13♓ 2 | 2°31 | 17° 9 | 22°33 | 5° 3 | 10°20 | 6°16 | 5°12 | 24°29 | 19°58 | 18°37 | 2°26 | n.a. | S 25 |
| M26 | 8 7 54 | 3°37'35 | 27°49 | 4°22 | 18°24 | 23°21 | 4°56 | 10°25 | 6°16 | 5°11 | 24°29 | 19°52 | 18°33 | 2°33 | n.a. | M26 |
| T 27 | 8 11 50 | 4°37'54 | 12♈14 | 6°14 | 19°39 | 24° 8 | 4°50 | 10°30 | 6°17 | 5°11 | 24°29 | 19°48 | 18°30 | 2°40 | n.a. | T 27 |
| W28 | 8 15 47 | 5°38'11 | 26°16 | 8° 7 | 20°53 | 24°55 | 4°44 | 10°35 | 6°17 | 5°10 | 24°28 | 19°46 | 18°27 | 2°46 | n.a. | W28 |
| T 29 | 8 19 43 | 6°38'26 | 9♉54 | 10° 1 | 22° 8 | 25°42 | 4°38 | 10°40 | 6°18 | 5° 9 | 24°28 | 19°D46 | 18°24 | 2°53 | n.a. | T 29 |
| F 30 | 8 23 40 | 7°38'39 | 23° 8 | 11°55 | 23°22 | 26°30 | 4°33 | 10°45 | 6°19 | 5° 9 | 24°28 | 19°46 | 18°21 | 3° 0 | n.a. | F 30 |
| S 31 | 8 27 36 | 8♒38'50 | 6♊ 3 | 13♒50 | 24♒37 | 27♑17 | 4♋27 | 10♐49 | 6♉19 | 5♊ 8 | 24♉28 | 19♐48 | 18♐18 | 3♍ 7 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| T 1 | 23 s26 | 15n17 | 4n 6 | 24 s26 | 0 s57 | 23 s51 | 1 s16 | 24 s34 | 0 s55 | 24n 1 | 0n33 | 20 s42 | 1n12 | 13n28 | 0 s20 | 20n 9 | 1 s22 | 11n17 | 8 s 7 | 23 s22 | 23 s19 | 7n10 | | | n.a. |
| F 2 | 23 22 | 18 59 | 3 14 | 24 37 | 1 3 | 23 42 | 1 18 | 24 33 | 0 56 | 24 1 | 0 34 | 20 43 | 1 12 | 13 28 | 0 20 | 20 8 | 1 22 | 11 17 | 8 7 | 23 23 | 23 19 | 7 7 | | | n.a. |
| S 3 | 23 18 | 21 38 | 2 12 | 24 46 | 1 9 | 23 33 | 1 19 | 24 32 | 0 56 | 24 2 | 0 34 | 20 44 | 1 12 | 13 28 | 0 20 | 20 8 | 1 21 | 11 17 | 8 7 | 23 23 | 23 18 | 7 4 | | | n.a. |
| S 4 | 23 13 | 23 6 | 1 5 | 24 55 | 1 15 | 23 22 | 1 20 | 24 30 | 0 56 | 24 3 | 0 34 | 20 45 | 1 12 | 13 27 | 0 20 | 20 8 | 1 21 | 11 17 | 8 7 | 23 23 | 23 18 | 7 2 | | | n.a. |
| M 5 | 23 7 | 23 21 | 0 s 5 | 25 2 | 1 20 | 23 11 | 1 21 | 24 28 | 0 57 | 24 3 | 0 34 | 20 46 | 1 12 | 13 27 | 0 20 | 20 8 | 1 21 | 11 17 | 8 6 | 23 23 | 23 18 | 6 59 | | | n.a. |
| T 6 | 23 1 | 22 25 | 1 13 | 25 7 | 1 25 | 22 59 | 1 22 | 24 26 | 0 57 | 24 4 | 0 34 | 20 47 | 1 12 | 13 27 | 0 20 | 20 8 | 1 21 | 11 17 | 8 6 | 23 23 | 23 18 | 6 57 | | | n.a. |
| W 7 | 22 55 | 20 23 | 2 17 | 25 11 | 1 30 | 22 47 | 1 23 | 24 23 | 0 57 | 24 4 | 0 34 | 20 48 | 1 12 | 13 27 | 0 20 | 20 7 | 1 21 | 11 17 | 8 6 | 23 23 | 23 17 | 6 54 | | | n.a. |
| T 8 | 22 48 | 17 28 | 3 14 | 25 14 | 1 34 | 22 34 | 1 24 | 24 21 | 0 58 | 24 5 | 0 34 | 20 49 | 1 12 | 13 27 | 0 20 | 20 7 | 1 21 | 11 17 | 8 6 | 23 22 | 23 17 | 6 51 | | | n.a. |
| F 9 | 22 41 | 13 51 | 4 1 | 25 15 | 1 38 | 22 20 | 1 24 | 24 17 | 0 58 | 24 5 | 0 34 | 20 50 | 1 12 | 13 27 | 0 20 | 20 7 | 1 21 | 11 17 | 8 6 | 23 22 | 23 17 | 6 49 | | | n.a. |
| S 10 | 22 33 | 9 42 | 4 37 | 25 15 | 1 42 | 22 6 | 1 25 | 24 14 | 0 58 | 24 6 | 0 35 | 20 51 | 1 12 | 13 27 | 0 20 | 20 7 | 1 21 | 11 17 | 8 5 | 23 22 | 23 17 | 6 46 | | | n.a. |
| S 11 | 22 25 | 5 14 | 5 1 | 25 13 | 1 46 | 21 50 | 1 26 | 24 10 | 0 59 | 24 7 | 0 35 | 20 52 | 1 12 | 13 27 | 0 20 | 20 7 | 1 21 | 11 17 | 8 5 | 23 21 | 23 16 | 6 43 | | | n.a. |
| M12 | 22 16 | 0 35 | 5 12 | 25 9 | 1 49 | 21 35 | 1 27 | 24 6 | 0 59 | 24 7 | 0 35 | 20 53 | 1 12 | 13 26 | 0 20 | 20 7 | 1 21 | 11 17 | 8 5 | 23 21 | 23 16 | 6 41 | | | n.a. |
| T 13 | 22 7 | 4 s 5 | 5 10 | 25 4 | 1 52 | 21 18 | 1 27 | 24 2 | 0 59 | 24 8 | 0 35 | 20 54 | 1 12 | 13 26 | 0 20 | 20 6 | 1 21 | 11 17 | 8 5 | 23 21 | 23 16 | 6 38 | | | n.a. |
| W14 | 21 58 | 8 40 | 4 54 | 24 57 | 1 55 | 21 1 | 1 28 | 23 58 | 1 0 | 24 8 | 0 35 | 20 55 | 1 12 | 13 26 | 0 20 | 20 6 | 1 21 | 11 17 | 8 5 | 23 21 | 23 15 | 6 35 | | | n.a. |
| T 15 | 21 48 | 12 58 | 4 25 | 24 49 | 1 57 | 20 44 | 1 28 | 23 53 | 1 0 | 24 8 | 0 35 | 20 56 | 1 12 | 13 26 | 0 20 | 20 6 | 1 21 | 11 17 | 8 4 | 23 21 | 23 15 | 6 33 | | | n.a. |
| F 16 | 21 38 | 16 49 | 3 43 | 24 38 | 1 59 | 20 25 | 1 28 | 23 48 | 1 0 | 24 9 | 0 35 | 20 56 | 1 12 | 13 26 | 0 19 | 20 6 | 1 21 | 11 17 | 8 4 | 23 21 | 23 15 | 6 30 | | | n.a. |
| S 17 | 21 27 | 20 0 | 2 49 | 24 26 | 2 0 | 20 7 | 1 29 | 23 42 | 1 1 | 24 9 | 0 35 | 20 57 | 1 12 | 13 26 | 0 19 | 20 6 | 1 21 | 11 17 | 8 4 | 23 21 | 23 15 | 6 28 | | | n.a. |
| S 18 | 21 16 | 22 16 | 1 44 | 24 12 | 2 1 | 19 47 | 1 29 | 23 37 | 1 1 | 24 10 | 0 35 | 20 58 | 1 12 | 13 26 | 0 19 | 20 6 | 1 21 | 11 17 | 8 4 | 23 21 | 23 14 | 6 25 | | | n.a. |
| M19 | 21 4 | 23 19 | 0 32 | 23 56 | 2 2 | 19 27 | 1 29 | 23 31 | 1 1 | 24 10 | 0 35 | 20 59 | 1 12 | 13 26 | 0 19 | 20 6 | 1 21 | 11 17 | 8 4 | 23 21 | 23 14 | 6 22 | | | n.a. |
| T 20 | 20 52 | 22 57 | 0n44 | 23 39 | 2 2 | 19 7 | 1 29 | 23 25 | 1 2 | 24 11 | 0 36 | 21 0 | 1 12 | 13 27 | 0 19 | 20 6 | 1 21 | 11 18 | 8 3 | 23 21 | 23 14 | 6 20 | | | n.a. |
| W21 | 20 40 | 21 4 | 2 0 | 23 19 | 2 2 | 18 46 | 1 29 | 23 18 | 1 2 | 24 11 | 0 36 | 21 0 | 1 12 | 13 27 | 0 19 | 20 5 | 1 21 | 11 18 | 8 3 | 23 21 | 23 14 | 6 17 | | | n.a. |
| T 22 | 20 28 | 17 44 | 3 9 | 22 58 | 2 1 | 18 24 | 1 29 | 23 11 | 1 2 | 24 11 | 0 36 | 21 1 | 1 12 | 13 27 | 0 19 | 20 5 | 1 21 | 11 18 | 8 3 | 23 21 | 23 13 | 6 14 | | | n.a. |
| F 23 | 20 15 | 13 11 | 4 7 | 22 35 | 2 0 | 18 2 | 1 29 | 23 4 | 1 2 | 24 12 | 0 36 | 21 2 | 1 12 | 13 27 | 0 19 | 20 5 | 1 21 | 11 18 | 8 3 | 23 20 | 23 13 | 6 12 | | | n.a. |
| S 24 | 20 1 | 7 49 | 4 47 | 22 9 | 1 59 | 17 39 | 1 29 | 22 57 | 1 3 | 24 12 | 0 36 | 21 3 | 1 12 | 13 27 | 0 19 | 20 5 | 1 21 | 11 18 | 8 3 | 23 20 | 23 13 | 6 9 | | | n.a. |
| S 25 | 19 47 | 2 1 | 5 7 | 21 42 | 1 56 | 17 16 | 1 29 | 22 50 | 1 3 | 24 12 | 0 36 | 21 3 | 1 12 | 13 27 | 0 19 | 20 5 | 1 21 | 11 18 | 8 2 | 23 19 | 23 13 | 6 7 | | | n.a. |
| M26 | 19 33 | 3n47 | 5 6 | 21 13 | 1 54 | 16 53 | 1 28 | 22 42 | 1 3 | 24 13 | 0 36 | 21 4 | 1 12 | 13 27 | 0 19 | 20 5 | 1 20 | 11 18 | 8 2 | 23 19 | 23 12 | 6 4 | | | n.a. |
| T 27 | 19 19 | 9 16 | 4 46 | 20 42 | 1 50 | 16 29 | 1 28 | 22 34 | 1 3 | 24 13 | 0 36 | 21 5 | 1 12 | 13 28 | 0 19 | 20 5 | 1 20 | 11 18 | 8 2 | 23 18 | 23 12 | 6 1 | | | n.a. |
| W28 | 19 4 | 14 6 | 4 9 | 20 9 | 1 47 | 16 4 | 1 27 | 22 25 | 1 4 | 24 13 | 0 36 | 21 6 | 1 12 | 13 28 | 0 19 | 20 5 | 1 20 | 11 19 | 8 2 | 23 18 | 23 12 | 5 59 | | | n.a. |
| T 29 | 18 49 | 18 4 | 3 19 | 19 34 | 1 42 | 15 39 | 1 27 | 22 17 | 1 4 | 24 14 | 0 36 | 21 6 | 1 12 | 13 28 | 0 19 | 20 5 | 1 20 | 11 19 | 8 1 | 23 18 | 23 11 | 5 56 | | | n.a. |
| F 30 | 18 34 | 21 0 | 2 19 | 18 58 | 1 37 | 15 14 | 1 26 | 22 8 | 1 4 | 24 14 | 0 36 | 21 7 | 1 12 | 13 28 | 0 19 | 20 5 | 1 20 | 11 19 | 8 1 | 23 18 | 23 11 | 5 53 | | | n.a. |
| S 31 | 18 s18 | 22n46 | 1n14 | 18 s19 | 1 s32 | 14 s48 | 1 s26 | 21 s59 | 1 s 4 | 24n14 | 0n36 | 21 s 8 | 1n12 | 13n29 | 0 s19 | 20n 5 | 1 s20 | 11n19 | 8 s 1 | 23 s18 | 23 s11 | 5n51 | | | n.a. |

Julian Day Number = 1694394.5, Delta T = 03h08m49s
Ecliptic obliquity = 23°42'12, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°05'09, Lahiri = - 4°58'09 Julian Calendar 1 Jan. 74 BCE == Greg. Calendar 30 Dec. 075 BCE

The year -73 astronomical counting style corresponds to year 074 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 74 BCE
# geocentric

## FEBRUARY 74 BCE (-73) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 31 33 | 9♒38'58 | 18♊42 | 15♒45 | 25♒52 | 28♉ 4 | 4°R22 | 10♐54 | 6♉20 | 5°R 8 | 24°R28 | 19°R48 | 18♐14 | 3♍13 | n.a. | S 1 |
| M 2 | 8 35 30 | 10°39'05 | 1♋ 7 | 17°40 | 27° 6 | 28°51 | 4♋16 | 10°59 | 6°21 | 5♊ 7 | 24♉27 | 19♐48 | 18°11 | 3°20 | n.a. | M 2 |
| T 3 | 8 39 26 | 11°39'09 | 13°22 | 19°35 | 28°21 | 29°39 | 4°11 | 11° 3 | 6°22 | 5° 7 | 24°27 | 19°45 | 18° 8 | 3°27 | n.a. | T 3 |
| W 4 | 8 43 23 | 12°39'11 | 25°30 | 21°31 | 29°35 | 0♒26 | 4° 6 | 11° 8 | 6°23 | 5° 6 | 24°27 | 19°39 | 18° 5 | 3°33 | n.a. | W 4 |
| T 5 | 8 47 19 | 13°39'11 | 7♌31 | 23°26 | 0♓50 | 1°13 | 4° 2 | 11°12 | 6°24 | 5° 6 | 24°27 | 19°32 | 18° 2 | 3°40 | n.a. | T 5 |
| F 6 | 8 51 16 | 14°39'09 | 19°28 | 25°20 | 2° 4 | 2° 0 | 3°57 | 11°17 | 6°25 | 5° 5 | 24°27 | 19°22 | 17°59 | 3°47 | n.a. | F 6 |
| S 7 | 8 55 12 | 15°39'05 | 1♍22 | 27°13 | 3°18 | 2°47 | 3°52 | 11°21 | 6°26 | 5° 5 | 24°27 | 19°11 | 17°55 | 3°54 | n.a. | S 7 |
| S 8 | 8 59 9 | 16°38'59 | 13°14 | 29° 5 | 4°33 | 3°35 | 3°48 | 11°25 | 6°27 | 5° 5 | 24°27 | 18°59 | 17°52 | 4° 0 | n.a. | S 8 |
| M 9 | 9 3 5 | 17°38'51 | 25° 7 | 0♓56 | 5°47 | 4°22 | 3°44 | 11°29 | 6°28 | 5° 4 | 24°27 | 18°49 | 17°49 | 4° 7 | n.a. | M 9 |
| T 10 | 9 7 2 | 18°38'41 | 7♎ 2 | 2°44 | 7° 1 | 5° 9 | 3°40 | 11°34 | 6°30 | 5° 4 | 24°D27 | 18°40 | 17°46 | 4°14 | n.a. | T 10 |
| W11 | 9 10 59 | 19°38'30 | 19° 2 | 4°29 | 8°16 | 5°56 | 3°36 | 11°38 | 6°31 | 5° 4 | 24°27 | 18°33 | 17°43 | 4°21 | n.a. | W11 |
| T 12 | 9 14 55 | 20°38'16 | 1♏11 | 6°12 | 9°30 | 6°43 | 3°33 | 11°41 | 6°32 | 5° 4 | 24°27 | 18°28 | 17°39 | 4°27 | n.a. | T 12 |
| F 13 | 9 18 52 | 21°38'01 | 13°33 | 7°50 | 10°44 | 7°30 | 3°30 | 11°45 | 6°34 | 5° 4 | 24°27 | 18°26 | 17°36 | 4°34 | n.a. | F 13 |
| S 14 | 9 22 48 | 22°37'44 | 26°12 | 9°25 | 11°58 | 8°17 | 3°26 | 11°49 | 6°35 | 5° 3 | 24°27 | 18°D26 | 17°33 | 4°41 | n.a. | S 14 |
| S 15 | 9 26 45 | 23°37'25 | 9♐14 | 10°55 | 13°12 | 9° 4 | 3°23 | 11°53 | 6°37 | 5° 3 | 24°27 | 18°26 | 17°30 | 4°47 | n.a. | S 15 |
| M16 | 9 30 41 | 24°37'04 | 22°41 | 12°21 | 14°26 | 9°51 | 3°20 | 11°56 | 6°38 | 5° 3 | 24°27 | 18°R27 | 17°27 | 4°54 | n.a. | M16 |
| T 17 | 9 34 38 | 25°36'42 | 6♑37 | 13°40 | 15°41 | 10°38 | 3°18 | 12° 0 | 6°40 | 5°D 3 | 24°27 | 18°25 | 17°24 | 5° 1 | n.a. | T 17 |
| W18 | 9 38 34 | 26°36'18 | 21° 2 | 14°54 | 16°55 | 11°26 | 3°15 | 12° 3 | 6°41 | 5° 3 | 24°28 | 18°22 | 17°20 | 5° 8 | n.a. | W18 |
| T 19 | 9 42 31 | 27°35'51 | 5♒53 | 16° 1 | 18° 9 | 12°13 | 3°13 | 12° 7 | 6°43 | 5° 3 | 24°28 | 18°15 | 17°17 | 5°14 | n.a. | T 19 |
| F 20 | 9 46 28 | 28°35'23 | 21° 3 | 17° 2 | 19°23 | 13° 0 | 3°11 | 12°10 | 6°45 | 5° 3 | 24°28 | 18° 7 | 17°14 | 5°21 | n.a. | F 20 |
| S 21 | 9 50 24 | 29°34'53 | 6♓23 | 17°55 | 20°37 | 13°46 | 3° 9 | 12°13 | 6°47 | 5° 4 | 24°28 | 17°56 | 17°11 | 5°28 | n.a. | S 21 |
| S 22 | 9 54 21 | 0♓34'20 | 21°40 | 18°41 | 21°50 | 14°33 | 3° 7 | 12°16 | 6°48 | 5° 4 | 24°28 | 17°46 | 17° 8 | 5°34 | n.a. | S 22 |
| M23 | 9 58 17 | 1°33'45 | 6♈45 | 19°20 | 23° 4 | 15°20 | 3° 6 | 12°19 | 6°50 | 5° 4 | 24°29 | 17°36 | 17° 5 | 5°41 | n.a. | M23 |
| T 24 | 10 2 14 | 2°33'08 | 21°27 | 19°51 | 24°18 | 16° 7 | 3° 5 | 12°22 | 6°52 | 5° 4 | 24°29 | 17°28 | 17° 1 | 5°48 | n.a. | T 24 |
| W25 | 10 6 10 | 3°32'28 | 5♉41 | 20°15 | 25°32 | 16°54 | 3° 3 | 12°25 | 6°54 | 5° 4 | 24°29 | 17°23 | 16°58 | 5°55 | n.a. | W25 |
| T 26 | 10 10 7 | 4°31'46 | 19°27 | 20°30 | 26°46 | 17°41 | 3° 2 | 12°27 | 6°56 | 5° 5 | 24°30 | 17°21 | 16°55 | 6° 1 | n.a. | T 26 |
| F 27 | 10 14 3 | 5°31'02 | 2♊45 | 20°38 | 27°59 | 18°28 | 3° 2 | 12°30 | 6°58 | 5° 5 | 24°30 | 17°D20 | 16°52 | 6° 8 | n.a. | F 27 |
| S 28 | 10 18 0 | 6♓30'15 | 15♊38 | 20°R39 | 29♓13 | 19♒15 | 3♋ 1 | 12♐33 | 7♉ 0 | 5♊ 5 | 24♉31 | 17°R20 | 16♐49 | 6♍15 | n.a. | S 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| S 1 | 18s 2 | 23n19 | 0n 6 | 17s39 | 1s25 | 14s22 | 1s25 | 21s50 | 1s 4 | 24n14 | 0n36 | 21s 8 | 1n12 | 13n29 | 0s19 | 20n 5 | 1s20 | 11n19 | 8s 1 | 23s18 | 23s11 | 5n48 | | | n.a. |
| M 2 | 17 45 | 22 41 | 1s 1 | 16 57 | 1 18 | 13 56 | 1 24 | 21 40 | 1 5 | 24 14 | 0 37 | 21 9 | 1 12 | 13 29 | 0 19 | 20 4 | 1 20 | 11 19 | 8 1 | 23 18 | 23 10 | 5 46 | | | n.a. |
| T 3 | 17 29 | 20 59 | 2 3 | 16 13 | 1 11 | 13 29 | 1 23 | 21 30 | 1 5 | 24 15 | 0 37 | 21 9 | 1 12 | 13 29 | 0 19 | 20 4 | 1 20 | 11 19 | 8 0 | 23 18 | 23 10 | 5 43 | | | n.a. |
| W 4 | 17 12 | 18 20 | 2 59 | 15 29 | 1 3 | 13 2 | 1 22 | 21 20 | 1 5 | 24 15 | 0 37 | 21 10 | 1 12 | 13 30 | 0 19 | 20 4 | 1 20 | 11 20 | 8 0 | 23 18 | 23 10 | 5 40 | | | n.a. |
| T 5 | 16 55 | 14 56 | 3 47 | 14 42 | 0 54 | 12 34 | 1 21 | 21 10 | 1 5 | 24 15 | 0 37 | 21 11 | 1 12 | 13 30 | 0 19 | 20 4 | 1 20 | 11 20 | 8 0 | 23 17 | 23 9 | 5 38 | | | n.a. |
| F 6 | 16 37 | 10 58 | 4 24 | 13 55 | 0 44 | 12 6 | 1 20 | 21 0 | 1 5 | 24 15 | 0 37 | 21 11 | 1 12 | 13 31 | 0 19 | 20 4 | 1 20 | 11 20 | 8 0 | 23 16 | 23 9 | 5 35 | | | n.a. |
| S 7 | 16 19 | 6 36 | 4 50 | 13 6 | 0 34 | 11 38 | 1 19 | 20 49 | 1 5 | 24 15 | 0 37 | 21 12 | 1 12 | 13 31 | 0 19 | 20 4 | 1 20 | 11 20 | 7 59 | 23 15 | 23 9 | 5 32 | | | n.a. |
| S 8 | 16 1 | 2 1 | 5 2 | 12 17 | 0 23 | 11 10 | 1 18 | 20 38 | 1 6 | 24 16 | 0 37 | 21 12 | 1 12 | 13 31 | 0 19 | 20 4 | 1 20 | 11 20 | 7 59 | 23 14 | 23 9 | 5 30 | | | n.a. |
| M 9 | 15 43 | 2s39 | 5 2 | 11 27 | 0 12 | 10 41 | 1 17 | 20 27 | 1 6 | 24 16 | 0 37 | 21 13 | 1 12 | 13 32 | 0 19 | 20 4 | 1 20 | 11 21 | 7 59 | 23 14 | 23 8 | 5 27 | | | n.a. |
| T 10 | 15 24 | 7 14 | 4 49 | 10 37 | 0 0 | 10 12 | 1 16 | 20 15 | 1 6 | 24 16 | 0 37 | 21 13 | 1 12 | 13 32 | 0 19 | 20 4 | 1 20 | 11 21 | 7 59 | 23 13 | 23 8 | 5 24 | | | n.a. |
| W11 | 15 5 | 11 34 | 4 23 | 9 47 | 0n12 | 9 43 | 1 14 | 20 4 | 1 6 | 24 16 | 0 37 | 21 14 | 1 12 | 13 33 | 0 19 | 20 4 | 1 20 | 11 21 | 7 59 | 23 12 | 23 8 | 5 22 | | | n.a. |
| T 12 | 14 46 | 15 30 | 3 44 | 8 57 | 0 25 | 9 13 | 1 13 | 19 52 | 1 6 | 24 16 | 0 37 | 21 14 | 1 12 | 13 33 | 0 19 | 20 4 | 1 20 | 11 21 | 7 58 | 23 12 | 23 7 | 5 19 | | | n.a. |
| F 13 | 14 27 | 18 51 | 2 55 | 8 8 | 0 38 | 8 43 | 1 11 | 19 40 | 1 6 | 24 16 | 0 37 | 21 15 | 1 13 | 13 34 | 0 19 | 20 4 | 1 20 | 11 22 | 7 58 | 23 12 | 23 7 | 5 17 | | | n.a. |
| S 14 | 14 7 | 21 23 | 1 56 | 7 20 | 0 51 | 8 13 | 1 10 | 19 28 | 1 6 | 24 16 | 0 37 | 21 15 | 1 13 | 13 34 | 0 19 | 20 4 | 1 19 | 11 22 | 7 58 | 23 12 | 23 7 | 5 14 | | | n.a. |
| S 15 | 13 48 | 22 53 | 0 49 | 6 33 | 1 5 | 7 43 | 1 8 | 19 15 | 1 6 | 24 17 | 0 37 | 21 16 | 1 13 | 13 35 | 0 19 | 20 5 | 1 19 | 11 22 | 7 58 | 23 12 | 23 7 | 5 11 | | | n.a. |
| M16 | 13 28 | 23 7 | 0n23 | 5 48 | 1 18 | 7 13 | 1 7 | 19 3 | 1 7 | 24 17 | 0 37 | 21 16 | 1 13 | 13 35 | 0 19 | 20 5 | 1 19 | 11 22 | 7 57 | 23 12 | 23 6 | 5 9 | | | n.a. |
| T 17 | 13 7 | 21 57 | 1 35 | 5 5 | 1 32 | 6 42 | 1 5 | 18 50 | 1 7 | 24 17 | 0 37 | 21 17 | 1 13 | 13 36 | 0 19 | 20 5 | 1 19 | 11 23 | 7 57 | 23 12 | 23 6 | 5 6 | | | n.a. |
| W18 | 12 47 | 19 20 | 2 44 | 4 24 | 1 45 | 6 12 | 1 3 | 18 37 | 1 7 | 24 17 | 0 37 | 21 17 | 1 13 | 13 36 | 0 19 | 20 5 | 1 19 | 11 23 | 7 57 | 23 11 | 23 6 | 5 3 | | | n.a. |
| T 19 | 12 26 | 15 24 | 3 44 | 3 46 | 1 58 | 5 41 | 1 1 | 18 23 | 1 7 | 24 17 | 0 37 | 21 17 | 1 13 | 13 37 | 0 19 | 20 5 | 1 19 | 11 23 | 7 57 | 23 11 | 23 5 | 5 1 | | | n.a. |
| F 20 | 12 6 | 10 23 | 4 29 | 3 10 | 2 11 | 5 10 | 1 0 | 18 10 | 1 7 | 24 17 | 0 37 | 21 18 | 1 13 | 13 37 | 0 19 | 20 5 | 1 19 | 11 23 | 7 57 | 23 10 | 23 5 | 4 58 | | | n.a. |
| S 21 | 11 45 | 4 42 | 4 56 | 2 38 | 2 24 | 4 39 | 0 58 | 17 56 | 1 7 | 24 17 | 0 37 | 21 18 | 1 13 | 13 38 | 0 19 | 20 5 | 1 19 | 11 24 | 7 56 | 23 9 | 23 5 | 4 56 | | | n.a. |
| S 22 | 11 23 | 1n16 | 5 1 | 2 9 | 2 35 | 4 7 | 0 56 | 17 43 | 1 7 | 24 17 | 0 37 | 21 19 | 1 13 | 13 39 | 0 19 | 20 5 | 1 19 | 11 24 | 7 56 | 23 8 | 23 4 | 4 53 | | | n.a. |
| M23 | 11 2 | 7 4 | 4 45 | 1 43 | 2 46 | 3 36 | 0 54 | 17 29 | 1 7 | 24 17 | 0 37 | 21 19 | 1 13 | 13 39 | 0 19 | 20 5 | 1 19 | 11 24 | 7 56 | 23 7 | 23 4 | 4 50 | | | n.a. |
| T 24 | 10 41 | 12 19 | 4 11 | 1 22 | 2 56 | 3 4 | 0 52 | 17 15 | 1 7 | 24 17 | 0 37 | 21 19 | 1 13 | 13 40 | 0 19 | 20 5 | 1 19 | 11 24 | 7 56 | 23 6 | 23 4 | 4 48 | | | n.a. |
| W25 | 10 19 | 16 43 | 3 22 | 1 4 | 3 6 | 2 33 | 0 49 | 17 0 | 1 7 | 24 17 | 0 37 | 21 20 | 1 13 | 13 41 | 0 18 | 20 5 | 1 19 | 11 25 | 7 55 | 23 6 | 23 3 | 4 45 | | | n.a. |
| T 26 | 9 57 | 20 4 | 2 22 | 0 50 | 3 14 | 2 1 | 0 47 | 16 46 | 1 7 | 24 17 | 0 37 | 21 20 | 1 13 | 13 41 | 0 18 | 20 5 | 1 19 | 11 25 | 7 55 | 23 6 | 23 3 | 4 42 | | | n.a. |
| F 27 | 9 35 | 22 11 | 1 17 | 0 41 | 3 21 | 1 30 | 0 45 | 16 31 | 1 7 | 24 17 | 0 37 | 21 20 | 1 13 | 13 42 | 0 18 | 20 5 | 1 19 | 11 25 | 7 55 | 23 6 | 23 3 | 4 40 | | | n.a. |
| S 28 | 9s13 | 23n 4 | 0n 9 | 0s35 | 3n26 | 0s58 | 0s43 | 16s17 | 1s 7 | 24n17 | 0n37 | 21s20 | 1n13 | 13n43 | 0s18 | 20n 6 | 1s19 | 11n26 | 7s55 | 23s 6 | 23s 2 | 4n37 | | | n.a. |

Julian Day Number = 1694425.5, Delta T = 03h08m48s
Ecliptic obliquity = 23°42'12, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°05'05, Lahiri = - 4°58'05 Julian Calendar 1 Feb. 74 BCE == Greg. Calendar 30 Jan. 074 BCE


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# ASTRODIENST EPHEMERIS for the year 74 BCE
# geocentric

## MARCH 74 BCE (-73) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 21 57 | 7♓29'26 | 28♊11 | 20°R32 | 0♈27 | 20♒ 1 | 3°R 1 | 12♐35 | 7♉ 2 | 5♊ 6 | 24♉31 | 17°R20 | 16♐45 | 6♍22 | n.a. | S 1 |
| M 2 | 10 25 53 | 8°28'34 | 10♋29 | 20♓18 | 1°40 | 20°48 | 3°D 1 | 12°37 | 7° 4 | 5° 6 | 24°31 | 17♐18 | 16°42 | 6°28 | n.a. | M 2 |
| T 3 | 10 29 50 | 9°27'40 | 22°35 | 19°58 | 2°54 | 21°35 | 3♋ 1 | 12°40 | 7° 7 | 5° 7 | 24°32 | 17°14 | 16°39 | 6°35 | n.a. | T 3 |
| W 4 | 10 33 46 | 10°26'43 | 4♌34 | 19°31 | 4° 7 | 22°21 | 3° 1 | 12°42 | 7° 9 | 5° 7 | 24°32 | 17° 6 | 16°36 | 6°42 | n.a. | W 4 |
| T 5 | 10 37 43 | 11°25'45 | 16°28 | 19° 0 | 5°21 | 23° 8 | 3° 1 | 12°44 | 7°11 | 5° 8 | 24°33 | 16°56 | 16°33 | 6°48 | n.a. | T 5 |
| F 6 | 10 41 39 | 12°24'44 | 28°21 | 18°23 | 6°34 | 23°55 | 3° 2 | 12°46 | 7°13 | 5° 8 | 24°33 | 16°44 | 16°30 | 6°55 | n.a. | F 6 |
| S 7 | 10 45 36 | 13°23'41 | 10♍13 | 17°42 | 7°48 | 24°41 | 3° 3 | 12°48 | 7°16 | 5° 9 | 24°34 | 16°30 | 16°26 | 7° 2 | n.a. | S 7 |
| S 8 | 10 49 32 | 14°22'35 | 22° 6 | 16°59 | 9° 1 | 25°28 | 3° 4 | 12°49 | 7°18 | 5° 9 | 24°34 | 16°15 | 16°23 | 7° 9 | n.a. | S 8 |
| M 9 | 10 53 29 | 15°21'28 | 4♎ 3 | 16°13 | 10°14 | 26°14 | 3° 5 | 12°51 | 7°21 | 5°10 | 24°35 | 16° 2 | 16°20 | 7°15 | n.a. | M 9 |
| T 10 | 10 57 25 | 16°20'18 | 16° 3 | 15°26 | 11°28 | 27° 1 | 3° 6 | 12°53 | 7°23 | 5°11 | 24°36 | 15°50 | 16°17 | 7°22 | n.a. | T 10 |
| W11 | 11 1 22 | 17°19'07 | 28° 8 | 14°39 | 12°41 | 27°47 | 3° 8 | 12°54 | 7°26 | 5°11 | 24°36 | 15°40 | 16°14 | 7°29 | n.a. | W11 |
| T 12 | 11 5 19 | 18°17'54 | 10♏22 | 13°52 | 13°54 | 28°34 | 3° 9 | 12°56 | 7°28 | 5°12 | 24°37 | 15°34 | 16°10 | 7°35 | n.a. | T 12 |
| F 13 | 11 9 15 | 19°16'39 | 22°47 | 13° 7 | 15° 7 | 29°20 | 3°11 | 12°57 | 7°31 | 5°13 | 24°38 | 15°30 | 16° 7 | 7°42 | n.a. | F 13 |
| S 14 | 11 13 12 | 20°15'22 | 5♐27 | 12°24 | 16°20 | 0♓ 6 | 3°13 | 12°58 | 7°33 | 5°14 | 24°38 | 15°29 | 16° 4 | 7°49 | n.a. | S 14 |
| S 15 | 11 17 8 | 21°14'03 | 18°26 | 11°44 | 17°33 | 0°53 | 3°16 | 12°59 | 7°36 | 5°15 | 24°39 | 15°29 | 16° 1 | 7°56 | n.a. | S 15 |
| M16 | 11 21 5 | 22°12'43 | 1♑47 | 11° 8 | 18°46 | 1°39 | 3°18 | 13° 0 | 7°39 | 5°16 | 24°40 | 15°29 | 15°58 | 8° 2 | n.a. | M16 |
| T 17 | 11 25 1 | 23°11'21 | 15°33 | 10°35 | 19°59 | 2°25 | 3°21 | 13° 1 | 7°41 | 5°16 | 24°41 | 15°27 | 15°55 | 8° 9 | n.a. | T 17 |
| W18 | 11 28 58 | 24° 9'57 | 29°46 | 10° 7 | 21°12 | 3°11 | 3°24 | 13° 2 | 7°44 | 5°17 | 24°41 | 15°24 | 15°51 | 8°16 | n.a. | W18 |
| T 19 | 11 32 54 | 25° 8'31 | 14♒25 | 9°44 | 22°25 | 3°58 | 3°27 | 13° 3 | 7°47 | 5°18 | 24°42 | 15°18 | 15°48 | 8°23 | n.a. | T 19 |
| F 20 | 11 36 51 | 26° 7'04 | 29°26 | 9°25 | 23°37 | 4°44 | 3°30 | 13° 3 | 7°50 | 5°19 | 24°43 | 15° 9 | 15°45 | 8°29 | n.a. | F 20 |
| S 21 | 11 40 48 | 27° 5'34 | 14♓39 | 9°12 | 24°50 | 5°30 | 3°33 | 13° 4 | 7°52 | 5°20 | 24°44 | 14°59 | 15°42 | 8°36 | n.a. | S 21 |
| S 22 | 11 44 44 | 28° 4'03 | 29°55 | 9° 3 | 26° 3 | 6°16 | 3°36 | 13° 4 | 7°55 | 5°21 | 24°45 | 14°48 | 15°39 | 8°43 | n.a. | S 22 |
| M23 | 11 48 41 | 29° 2'30 | 15♈ 2 | 9°D 0 | 27°16 | 7° 2 | 3°40 | 13° 5 | 7°58 | 5°23 | 24°45 | 14°38 | 15°36 | 8°49 | n.a. | M23 |
| T 24 | 11 52 37 | 0♈ 0'54 | 29°51 | 9° 2 | 28°28 | 7°48 | 3°44 | 13° 5 | 8° 1 | 5°24 | 24°46 | 14°30 | 15°32 | 8°56 | n.a. | T 24 |
| W25 | 11 56 34 | 0°59'17 | 14♉14 | 9° 9 | 29°41 | 8°34 | 3°48 | 13° 5 | 8° 4 | 5°25 | 24°47 | 14°24 | 15°29 | 9° 3 | n.a. | W25 |
| T 26 | 12 0 30 | 1°57'38 | 28° 8 | 9°21 | 0♉53 | 9°20 | 3°52 | 13°R 5 | 8° 7 | 5°26 | 24°48 | 14°21 | 15°26 | 9°10 | n.a. | T 26 |
| F 27 | 12 4 27 | 2°55'56 | 11♊33 | 9°37 | 2° 6 | 10° 6 | 3°57 | 13° 5 | 8°10 | 5°27 | 24°49 | 14°D20 | 15°23 | 9°16 | n.a. | F 27 |
| S 28 | 12 8 23 | 3°54'12 | 24°31 | 9°58 | 3°18 | 10°51 | 4° 1 | 13° 5 | 8°13 | 5°28 | 24°50 | 14°20 | 15°20 | 9°23 | n.a. | S 28 |
| S 29 | 12 12 20 | 4°52'26 | 7♋ 7 | 10°24 | 4°30 | 11°37 | 4° 6 | 13° 5 | 8°16 | 5°30 | 24°51 | 14°R20 | 15°16 | 9°30 | n.a. | S 29 |
| M30 | 12 16 16 | 5°50'38 | 19°24 | 10°54 | 5°43 | 12°23 | 4°11 | 13° 4 | 8°19 | 5°31 | 24°52 | 14°19 | 15°13 | 9°36 | n.a. | M30 |
| T 31 | 12 20 13 | 6♈48'48 | 1♌29 | 11♓28 | 6♉55 | 13♓ 8 | 4♋16 | 13♐ 4 | 8♉22 | 5♊32 | 24♉53 | 14♐17 | 15♐10 | 9♍43 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 8s51 | 22n44 | 0s57 | 0s34 | 3n30 | 0s26 | 0s40 | 16s 2 | 1s 7 | 24n17 | 0n37 | 21s21 | 1n13 | 13n43 | 0s18 | 20n 6 | 1s19 | 11n26 | 7s55 | 23s 6 | 23s 2 | 4n35 | | n.a. |
| M 2 | 8 29 | 21 18 | 1 59 | 0 37 | 3 33 | 0n 5 | 0 38 | 15 47 | 1 7 | 24 17 | 0 37 | 21 21 | 1 13 | 13 44 | 0 18 | 20 6 | 1 19 | 11 26 | 7 54 | 23 5 | 23 2 | 4 32 | | n.a. |
| T 3 | 8 6 | 18 55 | 2 55 | 0 44 | 3 34 | 0 37 | 0 36 | 15 31 | 1 7 | 24 17 | 0 37 | 21 21 | 1 13 | 13 45 | 0 18 | 20 6 | 1 19 | 11 27 | 7 54 | 23 5 | 23 2 | 4 29 | | n.a. |
| W 4 | 7 44 | 15 45 | 3 42 | 0 55 | 3 34 | 1 9 | 0 33 | 15 16 | 1 7 | 24 17 | 0 37 | 21 21 | 1 13 | 13 46 | 0 18 | 20 6 | 1 19 | 11 27 | 7 54 | 23 4 | 23 1 | 4 27 | | n.a. |
| T 5 | 7 21 | 11 58 | 4 19 | 1 10 | 3 31 | 1 41 | 0 31 | 15 1 | 1 7 | 24 17 | 0 37 | 21 22 | 1 13 | 13 46 | 0 18 | 20 6 | 1 18 | 11 27 | 7 54 | 23 3 | 23 1 | 4 24 | | n.a. |
| F 6 | 6 59 | 7 44 | 4 44 | 1 28 | 3 27 | 2 12 | 0 28 | 14 45 | 1 7 | 24 17 | 0 37 | 21 22 | 1 14 | 13 47 | 0 18 | 20 6 | 1 18 | 11 28 | 7 53 | 23 2 | 23 1 | 4 22 | | n.a. |
| S 7 | 6 36 | 3 14 | 4 58 | 1 49 | 3 22 | 2 44 | 0 26 | 14 29 | 1 7 | 24 17 | 0 37 | 21 22 | 1 14 | 13 48 | 0 18 | 20 7 | 1 18 | 11 28 | 7 53 | 23 1 | 23 0 | 4 19 | | n.a. |
| S 8 | 6 13 | 1s23 | 4 58 | 2 13 | 3 14 | 3 16 | 0 23 | 14 13 | 1 7 | 24 17 | 0 37 | 21 22 | 1 14 | 13 49 | 0 18 | 20 7 | 1 18 | 11 28 | 7 53 | 22 59 | 23 0 | 4 16 | | n.a. |
| M 9 | 5 50 | 5 58 | 4 45 | 2 39 | 3 5 | 3 47 | 0 21 | 13 57 | 1 7 | 24 17 | 0 37 | 21 22 | 1 14 | 13 50 | 0 18 | 20 7 | 1 18 | 11 29 | 7 53 | 22 58 | 23 0 | 4 14 | | n.a. |
| T 10 | 5 27 | 10 22 | 4 19 | 3 7 | 2 55 | 4 18 | 0 18 | 13 41 | 1 7 | 24 17 | 0 37 | 21 22 | 1 14 | 13 50 | 0 18 | 20 7 | 1 18 | 11 29 | 7 53 | 22 56 | 22 59 | 4 11 | | n.a. |
| W11 | 5 4 | 14 23 | 3 42 | 3 36 | 2 43 | 4 50 | 0 15 | 13 25 | 1 7 | 24 17 | 0 37 | 21 23 | 1 14 | 13 51 | 0 18 | 20 7 | 1 18 | 11 29 | 7 52 | 22 55 | 22 59 | 4 8 | | n.a. |
| T 12 | 4 41 | 17 50 | 2 54 | 4 6 | 2 30 | 5 21 | 0 12 | 13 9 | 1 7 | 24 17 | 0 37 | 21 23 | 1 14 | 13 52 | 0 18 | 20 7 | 1 18 | 11 30 | 7 52 | 22 55 | 22 59 | 4 6 | | n.a. |
| F 13 | 4 17 | 20 33 | 1 57 | 4 36 | 2 17 | 5 52 | 0 10 | 12 52 | 1 7 | 24 17 | 0 37 | 21 23 | 1 14 | 13 53 | 0 18 | 20 8 | 1 18 | 11 30 | 7 52 | 22 54 | 22 58 | 4 3 | | n.a. |
| S 14 | 3 54 | 22 19 | 0 53 | 5 6 | 2 2 | 6 23 | 0 7 | 12 36 | 1 7 | 24 17 | 0 37 | 21 23 | 1 14 | 13 54 | 0 18 | 20 8 | 1 18 | 11 30 | 7 52 | 22 54 | 22 58 | 4 1 | | n.a. |
| S 15 | 3 31 | 22 56 | 0n16 | 5 36 | 1 47 | 6 54 | 0 4 | 12 19 | 1 6 | 24 17 | 0 37 | 21 23 | 1 14 | 13 55 | 0 18 | 20 8 | 1 18 | 11 31 | 7 52 | 22 54 | 22 58 | 3 58 | | n.a. |
| M16 | 3 7 | 22 16 | 1 25 | 6 4 | 1 31 | 7 25 | 0 1 | 12 2 | 1 6 | 24 17 | 0 37 | 21 23 | 1 14 | 13 56 | 0 18 | 20 8 | 1 18 | 11 31 | 7 51 | 22 54 | 22 57 | 3 55 | | n.a. |
| T 17 | 2 44 | 20 16 | 2 32 | 6 32 | 1 15 | 7 55 | 0n 1 | 11 45 | 1 6 | 24 17 | 0 37 | 21 23 | 1 14 | 13 57 | 0 18 | 20 8 | 1 18 | 11 32 | 7 51 | 22 54 | 22 57 | 3 53 | | n.a. |
| W18 | 2 21 | 16 59 | 3 31 | 6 57 | 0 59 | 8 25 | 0 4 | 11 28 | 1 6 | 24 17 | 0 37 | 21 23 | 1 14 | 13 57 | 0 18 | 20 9 | 1 18 | 11 32 | 7 51 | 22 54 | 22 57 | 3 50 | | n.a. |
| T 19 | 1 57 | 12 34 | 4 19 | 7 21 | 0 43 | 8 56 | 0 7 | 11 11 | 1 6 | 24 17 | 0 37 | 21 23 | 1 14 | 13 58 | 0 18 | 20 9 | 1 18 | 11 32 | 7 51 | 22 53 | 22 56 | 3 47 | | n.a. |
| F 20 | 1 34 | 7 17 | 4 50 | 7 43 | 0 27 | 9 26 | 0 10 | 10 54 | 1 6 | 24 17 | 0 37 | 21 23 | 1 14 | 13 59 | 0 18 | 20 9 | 1 18 | 11 33 | 7 51 | 22 52 | 22 56 | 3 45 | | n.a. |
| S 21 | 1 10 | 1 29 | 5 1 | 8 2 | 0 11 | 9 55 | 0 13 | 10 37 | 1 6 | 24 17 | 0 37 | 21 23 | 1 14 | 14 0 | 0 18 | 20 9 | 1 18 | 11 33 | 7 50 | 22 51 | 22 56 | 3 42 | | n.a. |
| S 22 | 0 47 | 4n24 | 4 51 | 8 20 | 0s 4 | 10 25 | 0 16 | 10 20 | 1 6 | 24 17 | 0 37 | 21 23 | 1 14 | 14 1 | 0 18 | 20 10 | 1 18 | 11 33 | 7 50 | 22 50 | 22 55 | 3 40 | | n.a. |
| M23 | 0 23 | 9 58 | 4 20 | 8 35 | 0 19 | 10 54 | 0 19 | 10 2 | 1 5 | 24 16 | 0 37 | 21 23 | 1 14 | 14 2 | 0 18 | 20 10 | 1 18 | 11 34 | 7 50 | 22 48 | 22 55 | 3 37 | | n.a. |
| T 24 | 0n 0 | 14 51 | 3 32 | 8 47 | 0 33 | 11 23 | 0 22 | 9 45 | 1 5 | 24 16 | 0 37 | 21 23 | 1 14 | 14 3 | 0 18 | 20 10 | 1 17 | 11 34 | 7 50 | 22 47 | 22 55 | 3 34 | | n.a. |
| W25 | 0 24 | 18 42 | 2 32 | 8 57 | 0 47 | 11 52 | 0 25 | 9 27 | 1 5 | 24 16 | 0 37 | 21 23 | 1 14 | 14 4 | 0 18 | 20 10 | 1 17 | 11 35 | 7 50 | 22 47 | 22 54 | 3 32 | | n.a. |
| T 26 | 0 47 | 21 20 | 1 25 | 9 5 | 1 0 | 12 20 | 0 27 | 9 9 | 1 5 | 24 16 | 0 37 | 21 23 | 1 15 | 14 5 | 0 18 | 20 11 | 1 17 | 11 35 | 7 49 | 22 46 | 22 54 | 3 29 | | n.a. |
| F 27 | 1 11 | 22 40 | 0 15 | 9 10 | 1 12 | 12 48 | 0 30 | 8 52 | 1 5 | 24 16 | 0 37 | 21 23 | 1 15 | 14 6 | 0 18 | 20 11 | 1 17 | 11 35 | 7 49 | 22 46 | 22 53 | 3 27 | | n.a. |
| S 28 | 1 34 | 22 42 | 0s54 | 9 13 | 1 24 | 13 16 | 0 33 | 8 34 | 1 4 | 24 16 | 0 37 | 21 23 | 1 15 | 14 7 | 0 18 | 20 11 | 1 17 | 11 36 | 7 49 | 22 46 | 22 53 | 3 24 | | n.a. |
| S 29 | 1 57 | 21 33 | 1 58 | 9 13 | 1 35 | 13 44 | 0 36 | 8 16 | 1 4 | 24 16 | 0 37 | 21 23 | 1 15 | 14 8 | 0 18 | 20 11 | 1 17 | 11 36 | 7 49 | 22 46 | 22 53 | 3 21 | | n.a. |
| M30 | 2 21 | 19 24 | 2 55 | 9 11 | 1 45 | 14 11 | 0 39 | 7 58 | 1 4 | 24 16 | 0 37 | 21 23 | 1 15 | 14 9 | 0 18 | 20 12 | 1 17 | 11 37 | 7 49 | 22 46 | 22 52 | 3 19 | | n.a. |
| T 31 | 2n44 | 16n26 | 3s43 | 9s 7 | 1s55 | 14n38 | 0n42 | 7s41 | 1s 4 | 24n15 | 0n37 | 21s23 | 1n15 | 14n10 | 0s18 | 20n12 | 1s17 | 11n37 | 7s49 | 22s46 | 22s52 | 3n16 | | n.a. |

Julian Day Number = 1694453.5, Delta T = 03h08m47s
Ecliptic obliquity = 23°42'13, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°05'01, Lahiri = - 4°58'01 Julian Calendar 1 March 74 BCE == Greg. Calendar 27 Feb. 074 BCE

The year -73 astronomical counting style corresponds to year 074 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 74 BCE
# geocentric

## APRIL 74 BCE (-73) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 12 24 10 | 7♈46'56 | 13♌25 | 12♓ 5 | 8♉ 7 | 13♓54 | 4♋21 | 13°R 3 | 8♉25 | 5♊34 | 24♉54 | 14°R11 | 15♐ 7 | 9♏50 | n.a. | W 1 |
| T 2 | 12 28 6 | 8°45'02 | 25°17 | 12°47 | 9°19 | 14°40 | 4°26 | 13♐ 3 | 8°28 | 5°35 | 24°55 | 14♐ 4 | 15° 4 | 9°57 | n.a. | T 2 |
| F 3 | 12 32 3 | 9°43'05 | 7♏ 9 | 13°32 | 10°31 | 15°25 | 4°32 | 13° 2 | 8°32 | 5°36 | 24°56 | 13°54 | 15° 1 | 10° 3 | n.a. | F 3 |
| S 4 | 12 35 59 | 10°41'07 | 19° 2 | 14°21 | 11°43 | 16°11 | 4°37 | 13° 1 | 8°35 | 5°38 | 24°57 | 13°42 | 14°57 | 10°10 | n.a. | S 4 |
| S 5 | 12 39 56 | 11°39'07 | 0♎59 | 15°13 | 12°55 | 16°56 | 4°43 | 13° 0 | 8°38 | 5°39 | 24°58 | 13°31 | 14°54 | 10°17 | n.a. | S 5 |
| M 6 | 12 43 52 | 12°37'05 | 13° 1 | 16° 9 | 14° 7 | 17°41 | 4°49 | 12°59 | 8°41 | 5°41 | 24°59 | 13°19 | 14°51 | 10°24 | n.a. | M 6 |
| T 7 | 12 47 49 | 13°35'02 | 25°10 | 17° 7 | 15°19 | 18°27 | 4°55 | 12°58 | 8°44 | 5°42 | 25° 0 | 13°10 | 14°48 | 10°30 | n.a. | T 7 |
| W 8 | 12 51 45 | 14°32'57 | 7♏27 | 18° 8 | 16°30 | 19°12 | 5° 1 | 12°57 | 8°48 | 5°44 | 25° 1 | 13° 2 | 14°45 | 10°37 | n.a. | W 8 |
| T 9 | 12 55 42 | 15°30'50 | 19°53 | 19°13 | 17°42 | 19°57 | 5° 7 | 12°56 | 8°51 | 5°45 | 25° 2 | 12°57 | 14°41 | 10°44 | n.a. | T 9 |
| F 10 | 12 59 39 | 16°28'42 | 2♐29 | 20°20 | 18°53 | 20°43 | 5°14 | 12°54 | 8°54 | 5°47 | 25° 4 | 12°55 | 14°38 | 10°50 | n.a. | F 10 |
| S 11 | 13 3 35 | 17°26'33 | 15°19 | 21°29 | 20° 5 | 21°28 | 5°21 | 12°53 | 8°58 | 5°48 | 25° 5 | 12°D54 | 14°35 | 10°57 | n.a. | S 11 |
| S 12 | 13 7 32 | 18°24'22 | 28°23 | 22°42 | 21°16 | 22°13 | 5°27 | 12°51 | 9° 1 | 5°50 | 25° 6 | 12°55 | 14°32 | 11° 4 | n.a. | S 12 |
| M13 | 13 11 28 | 19°22'10 | 11♑46 | 23°57 | 22°28 | 22°58 | 5°34 | 12°49 | 9° 4 | 5°52 | 25° 7 | 12°56 | 14°29 | 11°11 | n.a. | M13 |
| T 14 | 13 15 25 | 20°19'57 | 25°28 | 25°14 | 23°39 | 23°43 | 5°41 | 12°48 | 9° 8 | 5°53 | 25° 8 | 12°R56 | 14°26 | 11°17 | n.a. | T 14 |
| W15 | 13 19 21 | 21°17'43 | 9♒31 | 26°34 | 24°50 | 24°28 | 5°48 | 12°46 | 9°11 | 5°55 | 25° 9 | 12°54 | 14°22 | 11°24 | n.a. | W15 |
| T 16 | 13 23 18 | 22°15'27 | 23°56 | 27°56 | 26° 2 | 25°13 | 5°56 | 12°44 | 9°14 | 5°57 | 25°11 | 12°51 | 14°19 | 11°31 | n.a. | T 16 |
| F 17 | 13 27 14 | 23°13'10 | 8♓37 | 29°21 | 27°13 | 25°58 | 6° 3 | 12°42 | 9°18 | 5°59 | 25°12 | 12°46 | 14°16 | 11°37 | n.a. | F 17 |
| S 18 | 13 31 11 | 24°10'52 | 23°31 | 0♈47 | 28°24 | 26°42 | 6°11 | 12°40 | 9°21 | 6° 0 | 25°13 | 12°39 | 14°13 | 11°44 | n.a. | S 18 |
| S 19 | 13 35 8 | 25° 8'33 | 8♈29 | 2°17 | 29°35 | 27°27 | 6°18 | 12°38 | 9°25 | 6° 2 | 25°14 | 12°32 | 14°10 | 11°51 | n.a. | S 19 |
| M20 | 13 39 4 | 26° 6'12 | 23°23 | 3°48 | 0♊46 | 28°12 | 6°26 | 12°35 | 9°28 | 6° 4 | 25°16 | 12°25 | 14° 7 | 11°58 | n.a. | M20 |
| T 21 | 13 43 1 | 27° 3'50 | 8♉ 2 | 5°22 | 1°57 | 28°56 | 6°34 | 12°33 | 9°32 | 6° 6 | 25°17 | 12°20 | 14° 3 | 12° 4 | n.a. | T 21 |
| W22 | 13 46 57 | 28° 1'27 | 22°22 | 6°58 | 3° 7 | 29°41 | 6°42 | 12°31 | 9°35 | 6° 7 | 25°18 | 12°16 | 14° 0 | 12°11 | n.a. | W22 |
| T 23 | 13 50 54 | 28°59'02 | 6♊16 | 8°36 | 4°18 | 0♈26 | 6°50 | 12°28 | 9°38 | 6° 9 | 25°19 | 12°D14 | 13°57 | 12°18 | n.a. | T 23 |
| F 24 | 13 54 50 | 29°56'36 | 19°44 | 10°16 | 5°29 | 1°10 | 6°59 | 12°25 | 9°42 | 6°11 | 25°21 | 12°14 | 13°54 | 12°25 | n.a. | F 24 |
| S 25 | 13 58 47 | 0♉54'08 | 2♋47 | 11°59 | 6°39 | 1°54 | 7° 7 | 12°23 | 9°45 | 6°13 | 25°22 | 12°16 | 13°51 | 12°31 | n.a. | S 25 |
| S 26 | 14 2 43 | 1°51'39 | 15°26 | 13°43 | 7°50 | 2°39 | 7°16 | 12°20 | 9°49 | 6°15 | 25°23 | 12°17 | 13°47 | 12°38 | n.a. | S 26 |
| M27 | 14 6 40 | 2°49'09 | 27°47 | 15°30 | 9° 0 | 3°23 | 7°24 | 12°17 | 9°52 | 6°17 | 25°25 | 12°R18 | 13°44 | 12°45 | n.a. | M27 |
| T 28 | 14 10 37 | 3°46'37 | 9♌54 | 17°20 | 10°11 | 4° 7 | 7°33 | 12°14 | 9°56 | 6°19 | 25°26 | 12°18 | 13°41 | 12°51 | n.a. | T 28 |
| W29 | 14 14 33 | 4°44'03 | 21°52 | 19°11 | 11°21 | 4°52 | 7°42 | 12°11 | 9°59 | 6°21 | 25°27 | 12°16 | 13°38 | 12°58 | n.a. | W29 |
| T 30 | 14 18 30 | 5♉41'28 | 3♏45 | 21♈ 4 | 12♊31 | 5♈36 | 7♋51 | 12♐ 8 | 10♉ 3 | 6♊23 | 25♉29 | 12♐13 | 13♐35 | 13♏ 5 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 3n 7 | 12n49 | 4s21 | 9s 0 | 2s 4 | 15n 4 | 0n45 | 7s23 | 1s 4 | 24n15 | 0n37 | 21s23 | 1n15 | 14n11 | 0s18 | 20n12 | 1s17 | 11n37 | 7s48 | 22s45 | 22s52 | 3n14 | | n.a. |
| T 2 | 3 30 | 8 44 | 4 47 | 8 51 | 2 12 | 15 31 | 0 48 | 7 5 | 1 3 | 24 15 | 0 37 | 21 23 | 1 15 | 14 12 | 0 18 | 20 13 | 1 17 | 11 38 | 7 48 | 22 44 | 22 51 | 3 11 | | n.a. |
| F 3 | 3 53 | 4 20 | 5 1 | 8 41 | 2 19 | 15 56 | 0 51 | 6 47 | 1 3 | 24 15 | 0 37 | 21 22 | 1 15 | 14 13 | 0 18 | 20 13 | 1 17 | 11 38 | 7 48 | 22 43 | 22 51 | 3 8 | | n.a. |
| S 4 | 4 16 | 0s14 | 5 1 | 8 28 | 2 26 | 16 22 | 0 54 | 6 29 | 1 3 | 24 15 | 0 37 | 21 22 | 1 15 | 14 14 | 0 18 | 20 13 | 1 17 | 11 39 | 7 48 | 22 42 | 22 51 | 3 6 | | n.a. |
| S 5 | 4 39 | 4 48 | 4 49 | 8 13 | 2 31 | 16 47 | 0 56 | 6 10 | 1 3 | 24 14 | 0 37 | 21 22 | 1 15 | 14 15 | 0 18 | 20 13 | 1 17 | 11 39 | 7 48 | 22 40 | 22 50 | 3 3 | | n.a. |
| M 6 | 5 2 | 9 14 | 4 24 | 7 56 | 2 37 | 17 11 | 0 59 | 5 52 | 1 2 | 24 14 | 0 37 | 21 22 | 1 15 | 14 16 | 0 18 | 20 14 | 1 17 | 11 39 | 7 48 | 22 39 | 22 50 | 3 1 | | n.a. |
| T 7 | 5 25 | 13 21 | 3 46 | 7 37 | 2 41 | 17 36 | 1 2 | 5 34 | 1 2 | 24 14 | 0 37 | 21 22 | 1 15 | 14 17 | 0 18 | 20 14 | 1 17 | 11 40 | 7 47 | 22 38 | 22 50 | 2 58 | | n.a. |
| W 8 | 5 48 | 16 57 | 2 58 | 7 16 | 2 45 | 17 59 | 1 5 | 5 16 | 1 2 | 24 14 | 0 37 | 21 22 | 1 15 | 14 19 | 0 18 | 20 14 | 1 17 | 11 40 | 7 47 | 22 37 | 22 49 | 2 55 | | n.a. |
| T 9 | 6 10 | 19 50 | 2 0 | 6 53 | 2 48 | 18 23 | 1 8 | 4 58 | 1 2 | 24 13 | 0 37 | 21 21 | 1 15 | 14 20 | 0 18 | 20 15 | 1 17 | 11 41 | 7 47 | 22 36 | 22 49 | 2 53 | | n.a. |
| F 10 | 6 33 | 21 48 | 0 56 | 6 29 | 2 50 | 18 45 | 1 10 | 4 40 | 1 1 | 24 13 | 0 37 | 21 21 | 1 15 | 14 21 | 0 18 | 20 15 | 1 17 | 11 41 | 7 47 | 22 36 | 22 48 | 2 50 | | n.a. |
| S 11 | 6 55 | 22 40 | 0n13 | 6 3 | 2 52 | 19 8 | 1 13 | 4 21 | 1 1 | 24 13 | 0 37 | 21 21 | 1 15 | 14 22 | 0 18 | 20 15 | 1 17 | 11 41 | 7 47 | 22 36 | 22 48 | 2 48 | | n.a. |
| S 12 | 7 18 | 22 19 | 1 22 | 5 35 | 2 53 | 19 30 | 1 16 | 4 3 | 1 1 | 24 13 | 0 37 | 21 21 | 1 15 | 14 23 | 0 18 | 20 16 | 1 17 | 11 42 | 7 47 | 22 36 | 22 48 | 2 45 | | n.a. |
| M13 | 7 40 | 20 43 | 2 29 | 5 5 | 2 54 | 19 51 | 1 18 | 3 45 | 1 1 | 24 12 | 0 37 | 21 21 | 1 15 | 14 24 | 0 18 | 20 16 | 1 17 | 11 42 | 7 46 | 22 36 | 22 47 | 2 42 | | n.a. |
| T 14 | 8 2 | 17 52 | 3 28 | 4 34 | 2 54 | 20 12 | 1 21 | 3 27 | 1 0 | 24 12 | 0 37 | 21 20 | 1 15 | 14 25 | 0 18 | 20 16 | 1 17 | 11 43 | 7 46 | 22 36 | 22 47 | 2 40 | | n.a. |
| W15 | 8 24 | 13 56 | 4 17 | 4 1 | 2 53 | 20 32 | 1 23 | 3 8 | 1 0 | 24 12 | 0 37 | 21 20 | 1 15 | 14 26 | 0 18 | 20 17 | 1 16 | 11 43 | 7 46 | 22 36 | 22 47 | 2 37 | | n.a. |
| T 16 | 8 46 | 9 7 | 4 51 | 3 27 | 2 51 | 20 52 | 1 26 | 2 50 | 1 0 | 24 11 | 0 37 | 21 20 | 1 15 | 14 27 | 0 18 | 20 17 | 1 16 | 11 44 | 7 46 | 22 35 | 22 46 | 2 35 | | n.a. |
| F 17 | 9 7 | 3 42 | 5 6 | 2 51 | 2 49 | 21 11 | 1 28 | 2 32 | 0 59 | 24 11 | 0 37 | 21 19 | 1 15 | 14 28 | 0 18 | 20 17 | 1 16 | 11 44 | 7 46 | 22 35 | 22 46 | 2 32 | | n.a. |
| S 18 | 9 29 | 2n 0 | 5 2 | 2 13 | 2 47 | 21 30 | 1 31 | 2 13 | 0 59 | 24 11 | 0 37 | 21 19 | 1 15 | 14 29 | 0 18 | 20 18 | 1 16 | 11 44 | 7 46 | 22 34 | 22 45 | 2 29 | | n.a. |
| S 19 | 9 50 | 7 38 | 4 36 | 1 35 | 2 43 | 21 48 | 1 33 | 1 55 | 0 59 | 24 10 | 0 37 | 21 19 | 1 15 | 14 31 | 0 18 | 20 18 | 1 16 | 11 45 | 7 46 | 22 33 | 22 45 | 2 27 | | n.a. |
| M20 | 10 11 | 12 46 | 3 53 | 0 55 | 2 40 | 22 6 | 1 36 | 1 37 | 0 58 | 24 10 | 0 37 | 21 19 | 1 15 | 14 32 | 0 18 | 20 18 | 1 16 | 11 45 | 7 46 | 22 32 | 22 45 | 2 24 | | n.a. |
| T 21 | 10 32 | 17 5 | 2 54 | 0 13 | 2 35 | 22 23 | 1 38 | 1 19 | 0 58 | 24 10 | 0 37 | 21 18 | 1 15 | 14 33 | 0 18 | 20 19 | 1 16 | 11 46 | 7 45 | 22 31 | 22 44 | 2 22 | | n.a. |
| W22 | 10 53 | 20 15 | 1 45 | 0n30 | 2 30 | 22 39 | 1 40 | 1 0 | 0 58 | 24 9 | 0 37 | 21 18 | 1 15 | 14 34 | 0 18 | 20 19 | 1 16 | 11 46 | 7 45 | 22 31 | 22 44 | 2 19 | | n.a. |
| T 23 | 11 14 | 22 7 | 0 32 | 1 14 | 2 25 | 22 55 | 1 42 | 0 42 | 0 57 | 24 9 | 0 37 | 21 18 | 1 15 | 14 35 | 0 18 | 20 19 | 1 16 | 11 46 | 7 45 | 22 31 | 22 44 | 2 16 | | n.a. |
| F 24 | 11 35 | 22 38 | 0s41 | 1 59 | 2 19 | 23 10 | 1 45 | 0 24 | 0 57 | 24 8 | 0 37 | 21 17 | 1 16 | 14 36 | 0 17 | 20 20 | 1 16 | 11 47 | 7 45 | 22 31 | 22 43 | 2 14 | | n.a. |
| S 25 | 11 55 | 21 51 | 1 49 | 2 46 | 2 12 | 23 25 | 1 47 | 0 6 | 0 56 | 24 8 | 0 37 | 21 17 | 1 16 | 14 37 | 0 17 | 20 20 | 1 16 | 11 47 | 7 45 | 22 31 | 22 43 | 2 11 | | n.a. |
| S 26 | 12 15 | 19 59 | 2 50 | 3 33 | 2 5 | 23 39 | 1 49 | 0n13 | 0 56 | 24 7 | 0 37 | 21 16 | 1 16 | 14 38 | 0 17 | 20 20 | 1 16 | 11 48 | 7 45 | 22 31 | 22 42 | 2 9 | | n.a. |
| M27 | 12 35 | 17 12 | 3 42 | 4 22 | 1 57 | 23 52 | 1 51 | 0 31 | 0 56 | 24 7 | 0 37 | 21 16 | 1 16 | 14 40 | 0 17 | 20 21 | 1 16 | 11 48 | 7 45 | 22 31 | 22 42 | 2 6 | | n.a. |
| T 28 | 12 55 | 13 45 | 4 23 | 5 12 | 1 49 | 24 4 | 1 52 | 0 49 | 0 55 | 24 6 | 0 37 | 21 16 | 1 16 | 14 41 | 0 17 | 20 21 | 1 16 | 11 49 | 7 45 | 22 31 | 22 42 | 2 3 | | n.a. |
| W29 | 13 14 | 9 47 | 4 51 | 6 2 | 1 41 | 24 16 | 1 54 | 1 7 | 0 55 | 24 6 | 0 37 | 21 15 | 1 16 | 14 42 | 0 17 | 20 22 | 1 16 | 11 49 | 7 44 | 22 31 | 22 41 | 2 1 | | n.a. |
| T 30 | 13n34 | 5n28 | 5s 7 | 6n53 | 1s32 | 24n28 | 1n56 | 1n25 | 0s54 | 24n 5 | 0n37 | 21s15 | 1n16 | 14n43 | 0s17 | 20n22 | 1s16 | 11n49 | 7s44 | 22s30 | 22s41 | 1n58 | | n.a. |

Julian Day Number = 1694484.5, Delta T = 03h08m46s
Ecliptic obliquity = 23°42'13, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°04'57, Lahiri = - 4°57'57 Julian Calendar 1 Apr. 74 BCE == Greg. Calendar 30 March 074 BCE

The year -73 astronomical counting style corresponds to year 074 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 74 BCE
# geocentric

## MAY 74 BCE (-73) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 14 22 26 | 6♉38'52 | 15♍37 | 23♈ 0 | 13♊41 | 6♈20 | 8♋ 0 | 12°R 5 | 10♉ 6 | 6♊25 | 25♉30 | 12°R 9 | 13♐32 | 13♍12 | n.a. | F 1 |
| S 2 | 14 26 23 | 7°36'15 | 27°33 | 24°58 | 14°51 | 7° 4 | 8° 9 | 12♐ 2 | 10°10 | 6°27 | 25°31 | 12♐ 3 | 13°28 | 13°18 | n.a. | S 2 |
| S 3 | 14 30 19 | 8°33'36 | 9♎35 | 26°58 | 16° 1 | 7°48 | 8°19 | 11°59 | 10°13 | 6°29 | 25°33 | 11°57 | 13°25 | 13°25 | n.a. | S 3 |
| M 4 | 14 34 16 | 9°30'56 | 21°45 | 28°59 | 17°11 | 8°32 | 8°28 | 11°55 | 10°17 | 6°31 | 25°34 | 11°52 | 13°22 | 13°32 | n.a. | M 4 |
| T 5 | 14 38 12 | 10°28'16 | 4♏ 5 | 1♉ 3 | 18°20 | 9°16 | 8°38 | 11°52 | 10°20 | 6°33 | 25°35 | 11°47 | 13°19 | 13°39 | n.a. | T 5 |
| W 6 | 14 42 9 | 11°25'34 | 16°36 | 3° 8 | 19°30 | 9°59 | 8°47 | 11°49 | 10°24 | 6°35 | 25°37 | 11°43 | 13°16 | 13°45 | n.a. | W 6 |
| T 7 | 14 46 5 | 12°22'52 | 29°19 | 5°15 | 20°39 | 10°43 | 8°57 | 11°45 | 10°27 | 6°37 | 25°38 | 11°41 | 13°13 | 13°52 | n.a. | T 7 |
| F 8 | 14 50 2 | 13°20'08 | 12♐14 | 7°23 | 21°49 | 11°27 | 9° 7 | 11°42 | 10°31 | 6°39 | 25°40 | 11°D41 | 13° 9 | 13°59 | n.a. | F 8 |
| S 9 | 14 53 59 | 14°17'24 | 25°22 | 9°33 | 22°58 | 12°10 | 9°17 | 11°38 | 10°35 | 6°41 | 25°41 | 11°41 | 13° 6 | 14° 5 | n.a. | S 9 |
| S 10 | 14 57 55 | 15°14'40 | 8♑43 | 11°43 | 24° 7 | 12°54 | 9°27 | 11°34 | 10°38 | 6°43 | 25°42 | 11°42 | 13° 3 | 14°12 | n.a. | S 10 |
| M11 | 15 1 52 | 16°11'55 | 22°17 | 13°54 | 25°16 | 13°37 | 9°37 | 11°31 | 10°42 | 6°45 | 25°44 | 11°44 | 13° 0 | 14°19 | n.a. | M11 |
| T 12 | 15 5 48 | 17° 9'09 | 6♒ 6 | 16° 6 | 26°25 | 14°21 | 9°47 | 11°27 | 10°45 | 6°47 | 25°45 | 11°45 | 12°57 | 14°26 | n.a. | T 12 |
| W13 | 15 9 45 | 18° 6'23 | 20° 8 | 18°17 | 27°34 | 15° 4 | 9°57 | 11°23 | 10°49 | 6°50 | 25°47 | 11°R45 | 12°53 | 14°32 | n.a. | W13 |
| T 14 | 15 13 41 | 19° 3'37 | 4♓22 | 20°29 | 28°43 | 15°48 | 10° 7 | 11°19 | 10°52 | 6°52 | 25°48 | 11°45 | 12°50 | 14°39 | n.a. | T 14 |
| F 15 | 15 17 38 | 20° 0'50 | 18°47 | 22°41 | 29°52 | 16°31 | 10°18 | 11°15 | 10°56 | 6°54 | 25°49 | 11°43 | 12°47 | 14°46 | n.a. | F 15 |
| S 16 | 15 21 35 | 20°58'03 | 3♈18 | 24°51 | 1♋ 0 | 17°14 | 10°28 | 11°11 | 10°59 | 6°56 | 25°51 | 11°41 | 12°44 | 14°52 | n.a. | S 16 |
| S 17 | 15 25 31 | 21°55'16 | 17°50 | 27° 1 | 2° 9 | 17°57 | 10°39 | 11° 7 | 11° 2 | 6°58 | 25°52 | 11°38 | 12°41 | 14°59 | n.a. | S 17 |
| M18 | 15 29 28 | 22°52'28 | 2♉18 | 29°10 | 3°17 | 18°40 | 10°50 | 11° 3 | 11° 6 | 7° 0 | 25°54 | 11°36 | 12°38 | 15° 6 | n.a. | M18 |
| T 19 | 15 33 24 | 23°49'40 | 16°36 | 1♊18 | 4°25 | 19°23 | 11° 0 | 10°59 | 11° 9 | 7° 3 | 25°55 | 11°34 | 12°34 | 15°13 | n.a. | T 19 |
| W20 | 15 37 21 | 24°46'52 | 0♊38 | 3°24 | 5°33 | 20° 6 | 11°11 | 10°55 | 11°13 | 7° 5 | 25°57 | 11°33 | 12°31 | 15°19 | n.a. | W20 |
| T 21 | 15 41 17 | 25°44'03 | 14°21 | 5°28 | 6°41 | 20°49 | 11°22 | 10°51 | 11°16 | 7° 7 | 25°58 | 11°D33 | 12°28 | 15°26 | n.a. | T 21 |
| F 22 | 15 45 14 | 26°41'13 | 27°44 | 7°31 | 7°49 | 21°32 | 11°33 | 10°47 | 11°20 | 7° 9 | 25°59 | 11°33 | 12°25 | 15°33 | n.a. | F 22 |
| S 23 | 15 49 10 | 27°38'23 | 10♋44 | 9°32 | 8°57 | 22°15 | 11°44 | 10°42 | 11°23 | 7°11 | 26° 1 | 11°34 | 12°22 | 15°40 | n.a. | S 23 |
| S 24 | 15 53 7 | 28°35'33 | 23°25 | 11°30 | 10° 4 | 22°58 | 11°55 | 10°38 | 11°27 | 7°14 | 26° 2 | 11°35 | 12°19 | 15°46 | n.a. | S 24 |
| M25 | 15 57 4 | 29°32'42 | 5♌48 | 13°27 | 11°12 | 23°40 | 12° 6 | 10°34 | 11°30 | 7°16 | 26° 4 | 11°36 | 12°15 | 15°53 | n.a. | M25 |
| T 26 | 16 1 0 | 0♊29'50 | 17°57 | 15°22 | 12°19 | 24°23 | 12°18 | 10°30 | 11°33 | 7°18 | 26° 5 | 11°37 | 12°12 | 16° 0 | n.a. | T 26 |
| W27 | 16 4 57 | 1°26'58 | 29°57 | 17°15 | 13°26 | 25° 5 | 12°29 | 10°25 | 11°37 | 7°20 | 26° 7 | 11°R37 | 12° 9 | 16° 6 | n.a. | W27 |
| T 28 | 16 8 53 | 2°24'05 | 11♍51 | 19° 5 | 14°33 | 25°48 | 12°40 | 10°21 | 11°40 | 7°22 | 26° 8 | 11°37 | 12° 6 | 16°13 | n.a. | T 28 |
| F 29 | 16 12 50 | 3°21'12 | 23°45 | 20°54 | 15°40 | 26°30 | 12°52 | 10°17 | 11°43 | 7°25 | 26° 9 | 11°37 | 12° 3 | 16°20 | n.a. | F 29 |
| S 30 | 16 16 46 | 4°18'19 | 5♎42 | 22°40 | 16°47 | 27°12 | 13° 3 | 10°12 | 11°47 | 7°27 | 26°11 | 11°36 | 11°59 | 16°27 | n.a. | S 30 |
| S 31 | 16 20 43 | 5♊15'25 | 17♎47 | 24♊24 | 17♋53 | 27♈55 | 13♋15 | 10♐ 8 | 11♉50 | 7♊29 | 26♉12 | 11♐35 | 11♐56 | 16♍33 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 13n53 | 0n58 | 5s10 | 7n45 | 1s23 | 24n39 | 1n58 | 1n43 | 0s54 | 24n 5 | 0n37 | 21s14 | 1n16 | 14n44 | 0s17 | 20n22 | 1s16 | 11n50 | 7s44 | 22s30 | 22s40 | 1n56 | | n.a. |
| S 2 | 14 12 | 3s35 | 4 59 | 8 38 | 1 13 | 24 49 | 1 59 | 2 1 | 0 54 | 24 4 | 0 37 | 21 14 | 1 16 | 14 45 | 0 17 | 20 23 | 1 16 | 11 50 | 7 44 | 22 29 | 22 40 | 1 53 | | n.a. |
| S 3 | 14 31 | 8 3 | 4 36 | 9 31 | 1 3 | 24 58 | 2 1 | 2 19 | 0 53 | 24 4 | 0 37 | 21 14 | 1 16 | 14 46 | 0 17 | 20 23 | 1 16 | 11 51 | 7 44 | 22 28 | 22 40 | 1 51 | | n.a. |
| M 4 | 14 49 | 12 15 | 3 59 | 10 25 | 0 53 | 25 7 | 2 2 | 2 37 | 0 53 | 24 3 | 0 37 | 21 13 | 1 16 | 14 47 | 0 17 | 20 23 | 1 16 | 11 51 | 7 44 | 22 28 | 22 39 | 1 48 | | n.a. |
| T 5 | 15 7 | 16 0 | 3 11 | 11 18 | 0 43 | 25 14 | 2 4 | 2 54 | 0 52 | 24 2 | 0 37 | 21 13 | 1 16 | 14 48 | 0 17 | 20 24 | 1 16 | 11 51 | 7 44 | 22 27 | 22 39 | 1 45 | | n.a. |
| W 6 | 15 26 | 19 6 | 2 13 | 12 12 | 0 32 | 25 22 | 2 5 | 3 12 | 0 52 | 24 2 | 0 37 | 21 12 | 1 16 | 14 50 | 0 17 | 20 24 | 1 16 | 11 52 | 7 44 | 22 26 | 22 39 | 1 43 | | n.a. |
| T 7 | 15 43 | 21 19 | 1 7 | 13 5 | 0 21 | 25 28 | 2 6 | 3 30 | 0 51 | 24 1 | 0 37 | 21 12 | 1 16 | 14 51 | 0 17 | 20 25 | 1 16 | 11 52 | 7 44 | 22 26 | 22 38 | 1 40 | | n.a. |
| F 8 | 16 1 | 22 27 | 0n 3 | 13 58 | 0 11 | 25 34 | 2 8 | 3 48 | 0 51 | 24 0 | 0 37 | 21 11 | 1 16 | 14 52 | 0 17 | 20 25 | 1 16 | 11 53 | 7 44 | 22 26 | 22 38 | 1 38 | | n.a. |
| S 9 | 16 18 | 22 23 | 1 14 | 14 50 | 0n 0 | 25 39 | 2 9 | 4 5 | 0 51 | 24 0 | 0 37 | 21 11 | 1 15 | 14 53 | 0 17 | 20 25 | 1 16 | 11 53 | 7 44 | 22 26 | 22 37 | 1 35 | | n.a. |
| S 10 | 16 35 | 21 2 | 2 23 | 15 41 | 0 11 | 25 44 | 2 10 | 4 23 | 0 50 | 23 59 | 0 37 | 21 10 | 1 15 | 14 54 | 0 17 | 20 26 | 1 16 | 11 53 | 7 43 | 22 26 | 22 37 | 1 32 | | n.a. |
| M11 | 16 52 | 18 28 | 3 25 | 16 31 | 0 21 | 25 48 | 2 11 | 4 40 | 0 50 | 23 58 | 0 37 | 21 10 | 1 15 | 14 55 | 0 17 | 20 26 | 1 16 | 11 54 | 7 43 | 22 26 | 22 36 | 1 30 | | n.a. |
| T 12 | 17 8 | 14 50 | 4 16 | 17 20 | 0 31 | 25 51 | 2 11 | 4 58 | 0 49 | 23 58 | 0 37 | 21 9 | 1 15 | 14 56 | 0 17 | 20 26 | 1 16 | 11 54 | 7 43 | 22 27 | 22 36 | 1 27 | | n.a. |
| W13 | 17 25 | 10 19 | 4 52 | 18 7 | 0 41 | 25 53 | 2 12 | 5 15 | 0 49 | 23 57 | 0 37 | 21 9 | 1 15 | 14 57 | 0 17 | 20 27 | 1 16 | 11 55 | 7 43 | 22 27 | 22 36 | 1 25 | | n.a. |
| T 14 | 17 41 | 5 11 | 5 12 | 18 53 | 0 51 | 25 55 | 2 13 | 5 32 | 0 48 | 23 56 | 0 37 | 21 8 | 1 15 | 14 59 | 0 17 | 20 27 | 1 16 | 11 55 | 7 43 | 22 27 | 22 35 | 1 22 | | n.a. |
| F 15 | 17 56 | 0n17 | 5 12 | 19 37 | 1 0 | 25 56 | 2 13 | 5 50 | 0 48 | 23 55 | 0 37 | 21 8 | 1 15 | 15 0 | 0 17 | 20 28 | 1 16 | 11 55 | 7 43 | 22 26 | 22 35 | 1 20 | | n.a. |
| S 16 | 18 12 | 5 47 | 4 52 | 20 18 | 1 9 | 25 56 | 2 14 | 6 7 | 0 47 | 23 54 | 0 38 | 21 7 | 1 15 | 15 1 | 0 17 | 20 28 | 1 16 | 11 56 | 7 43 | 22 26 | 22 34 | 1 17 | | n.a. |
| S 17 | 18 27 | 10 58 | 4 14 | 20 57 | 1 17 | 25 55 | 2 14 | 6 24 | 0 47 | 23 54 | 0 38 | 21 7 | 1 15 | 15 2 | 0 17 | 20 28 | 1 16 | 11 56 | 7 43 | 22 26 | 22 34 | 1 14 | | n.a. |
| M18 | 18 42 | 15 31 | 3 20 | 21 34 | 1 24 | 25 54 | 2 14 | 6 41 | 0 46 | 23 53 | 0 38 | 21 6 | 1 15 | 15 3 | 0 17 | 20 29 | 1 16 | 11 57 | 7 43 | 22 25 | 22 34 | 1 12 | | n.a. |
| T 19 | 18 56 | 19 6 | 2 13 | 22 8 | 1 31 | 25 52 | 2 15 | 6 58 | 0 46 | 23 52 | 0 38 | 21 6 | 1 15 | 15 4 | 0 17 | 20 29 | 1 16 | 11 57 | 7 43 | 22 25 | 22 33 | 1 9 | | n.a. |
| W20 | 19 10 | 21 29 | 1 0 | 22 39 | 1 37 | 25 50 | 2 15 | 7 15 | 0 45 | 23 51 | 0 38 | 21 5 | 1 15 | 15 5 | 0 17 | 20 29 | 1 15 | 11 57 | 7 43 | 22 25 | 22 33 | 1 7 | | n.a. |
| T 21 | 19 24 | 22 31 | 0s16 | 23 8 | 1 43 | 25 46 | 2 15 | 7 32 | 0 45 | 23 50 | 0 38 | 21 5 | 1 15 | 15 6 | 0 17 | 20 30 | 1 15 | 11 58 | 7 43 | 22 25 | 22 32 | 1 4 | | n.a. |
| F 22 | 19 38 | 22 13 | 1 28 | 23 34 | 1 47 | 25 42 | 2 14 | 7 48 | 0 44 | 23 49 | 0 38 | 21 4 | 1 15 | 15 7 | 0 17 | 20 30 | 1 15 | 11 58 | 7 43 | 22 25 | 22 32 | 1 2 | | n.a. |
| S 23 | 19 51 | 20 42 | 2 34 | 23 58 | 1 52 | 25 38 | 2 14 | 8 5 | 0 44 | 23 48 | 0 38 | 21 4 | 1 15 | 15 8 | 0 17 | 20 31 | 1 15 | 11 58 | 7 43 | 22 25 | 22 32 | 0 59 | | n.a. |
| S 24 | 20 4 | 18 11 | 3 31 | 24 18 | 1 55 | 25 32 | 2 14 | 8 21 | 0 43 | 23 47 | 0 38 | 21 3 | 1 15 | 15 9 | 0 17 | 20 31 | 1 15 | 11 59 | 7 43 | 22 25 | 22 31 | 0 57 | | n.a. |
| M25 | 20 17 | 14 53 | 4 17 | 24 37 | 1 58 | 25 26 | 2 13 | 8 38 | 0 43 | 23 46 | 0 38 | 21 2 | 1 15 | 15 10 | 0 17 | 20 31 | 1 15 | 11 59 | 7 43 | 22 25 | 22 31 | 0 54 | | n.a. |
| T 26 | 20 29 | 11 1 | 4 50 | 24 52 | 2 0 | 25 20 | 2 13 | 8 54 | 0 42 | 23 45 | 0 38 | 21 2 | 1 15 | 15 12 | 0 17 | 20 32 | 1 15 | 11 59 | 7 43 | 22 26 | 22 30 | 0 51 | | n.a. |
| W27 | 20 41 | 6 47 | 5 10 | 25 5 | 2 1 | 25 12 | 2 12 | 9 10 | 0 41 | 23 44 | 0 38 | 21 1 | 1 15 | 15 13 | 0 17 | 20 32 | 1 15 | 12 0 | 7 43 | 22 26 | 22 30 | 0 49 | | n.a. |
| T 28 | 20 52 | 2 19 | 5 16 | 25 16 | 2 1 | 25 4 | 2 11 | 9 26 | 0 41 | 23 43 | 0 38 | 21 1 | 1 15 | 15 14 | 0 17 | 20 33 | 1 15 | 12 0 | 7 43 | 22 26 | 22 29 | 0 46 | | n.a. |
| F 29 | 21 3 | 2s13 | 5 9 | 25 24 | 2 1 | 24 56 | 2 10 | 9 42 | 0 40 | 23 42 | 0 38 | 21 0 | 1 15 | 15 15 | 0 17 | 20 33 | 1 15 | 12 0 | 7 42 | 22 25 | 22 29 | 0 44 | | n.a. |
| S 30 | 21 14 | 6 42 | 4 49 | 25 30 | 2 1 | 24 46 | 2 9 | 9 58 | 0 40 | 23 41 | 0 38 | 21 0 | 1 15 | 15 16 | 0 17 | 20 33 | 1 15 | 12 1 | 7 42 | 22 25 | 22 29 | 0 41 | | n.a. |
| S 31 | 21n25 | 10s59 | 4s16 | 25n34 | 1n59 | 24n36 | 2n 8 | 10n14 | 0s39 | 23n40 | 0n38 | 20s59 | 1n15 | 15n17 | 0s17 | 20n34 | 1s15 | 12n 1 | 7s42 | 22s25 | 22s28 | 0n39 | | n.a. |

Julian Day Number = 1694514.5, Delta T = 03h08m45s
Ecliptic obliquity = 23°42'12, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°04'53, Lahiri = - 4°57'53 Julian Calendar 1 May 74 BCE == Greg. Calendar 29 Apr. 074 BCE

The year -73 astronomical counting style corresponds to year 074 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 74 BCE
# geocentric

## JUNE 74 BCE (-73) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 16 24 39 | 6♊12'31 | 0♏ 3 | 26♊ 6 | 19♋ 0 | 28♈37 | 13♋27 | 10°R 4 | 11♉53 | 7♊31 | 26♉14 | 11°R34 | 11♐53 | 16♍40 | n.a. | M 1 |
| T 2 | 16 28 36 | 7° 9'36 | 12°33 | 27°45 | 20° 6 | 29°19 | 13°38 | 9♐59 | 11°57 | 7°34 | 26°15 | 11♐34 | 11°50 | 16°47 | n.a. | T 2 |
| W 3 | 16 32 33 | 8° 6'42 | 25°18 | 29°23 | 21°12 | 0♉ 1 | 13°50 | 9°55 | 12° 0 | 7°36 | 26°16 | 11°33 | 11°47 | 16°54 | n.a. | W 3 |
| T 4 | 16 36 29 | 9° 3'48 | 8♐20 | 0♋58 | 22°18 | 0°43 | 14° 2 | 9°50 | 12° 3 | 7°38 | 26°18 | 11°D33 | 11°44 | 17° 0 | n.a. | T 4 |
| F 5 | 16 40 26 | 10° 0'53 | 21°37 | 2°31 | 23°23 | 1°25 | 14°14 | 9°46 | 12° 6 | 7°40 | 26°19 | 11°33 | 11°40 | 17° 7 | n.a. | F 5 |
| S 6 | 16 44 22 | 10°57'59 | 5♑10 | 4° 2 | 24°29 | 2° 7 | 14°26 | 9°41 | 12° 9 | 7°43 | 26°21 | 11°33 | 11°37 | 17°14 | n.a. | S 6 |
| S 7 | 16 48 19 | 11°55'05 | 18°55 | 5°30 | 25°34 | 2°49 | 14°38 | 9°37 | 12°13 | 7°45 | 26°22 | 11°R33 | 11°34 | 17°20 | n.a. | S 7 |
| M 8 | 16 52 15 | 12°52'12 | 2♒52 | 6°56 | 26°39 | 3°30 | 14°50 | 9°33 | 12°16 | 7°47 | 26°23 | 11°33 | 11°31 | 17°27 | n.a. | M 8 |
| T 9 | 16 56 12 | 13°49'19 | 16°57 | 8°20 | 27°44 | 4°12 | 15° 2 | 9°28 | 12°19 | 7°49 | 26°25 | 11°33 | 11°28 | 17°34 | n.a. | T 9 |
| W10 | 17 0 9 | 14°46'26 | 1♓ 8 | 9°42 | 28°49 | 4°54 | 15°14 | 9°24 | 12°22 | 7°51 | 26°26 | 11°33 | 11°24 | 17°41 | n.a. | W10 |
| T 11 | 17 4 5 | 15°43'34 | 15°22 | 11° 1 | 29°53 | 5°35 | 15°26 | 9°20 | 12°25 | 7°54 | 26°27 | 11°D33 | 11°21 | 17°47 | n.a. | T 11 |
| F 12 | 17 8 2 | 16°40'42 | 29°37 | 12°18 | 0♌58 | 6°17 | 15°38 | 9°15 | 12°28 | 7°56 | 26°29 | 11°33 | 11°18 | 17°54 | n.a. | F 12 |
| S 13 | 17 11 58 | 17°37'51 | 13♈50 | 13°32 | 2° 2 | 6°58 | 15°51 | 9°11 | 12°31 | 7°58 | 26°30 | 11°33 | 11°15 | 18° 1 | n.a. | S 13 |
| S 14 | 17 15 55 | 18°35'01 | 27°57 | 14°44 | 3° 6 | 7°40 | 16° 3 | 9° 6 | 12°34 | 8° 0 | 26°31 | 11°34 | 11°12 | 18° 8 | n.a. | S 14 |
| M15 | 17 19 51 | 19°32'11 | 11♉58 | 15°54 | 4° 9 | 8°21 | 16°15 | 9° 2 | 12°37 | 8° 2 | 26°33 | 11°35 | 11° 9 | 18°14 | n.a. | M15 |
| T 16 | 17 23 48 | 20°29'22 | 25°48 | 17° 0 | 5°13 | 9° 2 | 16°28 | 8°58 | 12°40 | 8° 5 | 26°34 | 11°35 | 11° 5 | 18°21 | n.a. | T 16 |
| W17 | 17 27 44 | 21°26'34 | 9♊27 | 18° 4 | 6°16 | 9°43 | 16°40 | 8°54 | 12°43 | 8° 7 | 26°35 | 11°R35 | 11° 2 | 18°28 | n.a. | W17 |
| T 18 | 17 31 41 | 22°23'46 | 22°50 | 19° 5 | 7°19 | 10°24 | 16°53 | 8°49 | 12°46 | 8° 9 | 26°37 | 11°35 | 10°59 | 18°34 | n.a. | T 18 |
| F 19 | 17 35 38 | 23°20'59 | 5♋58 | 20° 3 | 8°21 | 11° 5 | 17° 5 | 8°45 | 12°49 | 8°11 | 26°38 | 11°34 | 10°56 | 18°41 | n.a. | F 19 |
| S 20 | 17 39 34 | 24°18'12 | 18°49 | 20°58 | 9°24 | 11°46 | 17°18 | 8°41 | 12°52 | 8°13 | 26°39 | 11°33 | 10°53 | 18°48 | n.a. | S 20 |
| S 21 | 17 43 31 | 25°15'26 | 1♌24 | 21°50 | 10°26 | 12°27 | 17°30 | 8°37 | 12°54 | 8°16 | 26°41 | 11°31 | 10°50 | 18°55 | n.a. | S 21 |
| M22 | 17 47 27 | 26°12'40 | 13°45 | 22°38 | 11°28 | 13° 8 | 17°43 | 8°33 | 12°57 | 8°18 | 26°42 | 11°29 | 10°46 | 19° 1 | n.a. | M22 |
| T 23 | 17 51 24 | 27° 9'55 | 25°53 | 23°23 | 12°29 | 13°49 | 17°56 | 8°29 | 13° 0 | 8°20 | 26°43 | 11°27 | 10°43 | 19° 8 | n.a. | T 23 |
| W24 | 17 55 20 | 28° 7'09 | 7♍53 | 24° 5 | 13°31 | 14°29 | 18° 8 | 8°25 | 13° 3 | 8°22 | 26°44 | 11°26 | 10°40 | 19°15 | n.a. | W24 |
| T 25 | 17 59 17 | 29° 4'25 | 19°47 | 24°42 | 14°32 | 15°10 | 18°21 | 8°21 | 13° 5 | 8°24 | 26°46 | 11°25 | 10°37 | 19°21 | n.a. | T 25 |
| F 26 | 18 3 13 | 0♋ 1'41 | 1♎40 | 25°16 | 15°32 | 15°50 | 18°34 | 8°17 | 13° 8 | 8°26 | 26°47 | 11°D24 | 10°34 | 19°28 | n.a. | F 26 |
| S 27 | 18 7 10 | 0°58'57 | 13°37 | 25°46 | 16°33 | 16°31 | 18°47 | 8°13 | 13°11 | 8°28 | 26°48 | 11°25 | 10°30 | 19°35 | n.a. | S 27 |
| S 28 | 18 11 7 | 1°56'14 | 25°43 | 26°11 | 17°33 | 17°11 | 19° 0 | 8° 9 | 13°13 | 8°30 | 26°49 | 11°26 | 10°27 | 19°42 | n.a. | S 28 |
| M29 | 18 15 3 | 2°53'32 | 8♏ 2 | 26°32 | 18°32 | 17°51 | 19°12 | 8° 5 | 13°16 | 8°33 | 26°50 | 11°28 | 10°24 | 19°48 | n.a. | M29 |
| T 30 | 18 19 0 | 3♋50'50 | 20♏37 | 26♋48 | 19♌31 | 18♉32 | 19♋25 | 8♐ 1 | 13♉18 | 8♊35 | 26♉52 | 11♐29 | 10♐21 | 19♍55 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 21n35 | 14s53 | 3s30 | 25n36 | 1n57 | 24n26 | 2n 7 | 10n30 | 0s39 | 23n39 | 0n38 | 20s58 | 1n15 | 15n18 | 0s17 | 20n34 | 1s15 | 12n 2 | 7s42 | 22s25 | 22s28 | 0n36 | | n.a. |
| T 2 | 21 45 | 18 13 | 2 34 | 25 35 | 1 54 | 24 15 | 2 5 | 10 46 | 0 38 | 23 37 | 0 38 | 20 58 | 1 14 | 15 19 | 0 17 | 20 34 | 1 15 | 12 2 | 7 42 | 22 25 | 22 27 | 0 34 | | n.a. |
| W 3 | 21 54 | 20 44 | 1 29 | 25 33 | 1 51 | 24 3 | 2 4 | 11 1 | 0 37 | 23 36 | 0 38 | 20 57 | 1 14 | 15 20 | 0 17 | 20 35 | 1 15 | 12 2 | 7 42 | 22 25 | 22 27 | 0 31 | | n.a. |
| T 4 | 22 3 | 22 14 | 0 18 | 25 29 | 1 47 | 23 51 | 2 2 | 11 16 | 0 37 | 23 35 | 0 38 | 20 57 | 1 14 | 15 21 | 0 17 | 20 35 | 1 15 | 12 2 | 7 42 | 22 25 | 22 26 | 0 28 | | n.a. |
| F 5 | 22 12 | 22 31 | 0n56 | 25 23 | 1 43 | 23 38 | 2 1 | 11 32 | 0 36 | 23 34 | 0 38 | 20 56 | 1 14 | 15 22 | 0 17 | 20 36 | 1 15 | 12 3 | 7 42 | 22 25 | 22 26 | 0 26 | | n.a. |
| S 6 | 22 20 | 21 29 | 2 7 | 25 16 | 1 38 | 23 24 | 1 59 | 11 47 | 0 36 | 23 33 | 0 38 | 20 56 | 1 14 | 15 23 | 0 17 | 20 36 | 1 15 | 12 3 | 7 42 | 22 25 | 22 26 | 0 23 | | n.a. |
| S 7 | 22 28 | 19 10 | 3 13 | 25 7 | 1 32 | 23 10 | 1 57 | 12 2 | 0 35 | 23 31 | 0 38 | 20 55 | 1 14 | 15 24 | 0 17 | 20 36 | 1 15 | 12 3 | 7 42 | 22 25 | 22 25 | 0 21 | | n.a. |
| M 8 | 22 36 | 15 43 | 4 8 | 24 57 | 1 26 | 22 56 | 1 55 | 12 17 | 0 34 | 23 30 | 0 38 | 20 54 | 1 14 | 15 25 | 0 17 | 20 37 | 1 15 | 12 4 | 7 42 | 22 25 | 22 25 | 0 18 | | n.a. |
| T 9 | 22 43 | 11 21 | 4 48 | 24 45 | 1 19 | 22 41 | 1 52 | 12 32 | 0 34 | 23 29 | 0 38 | 20 54 | 1 14 | 15 26 | 0 17 | 20 37 | 1 15 | 12 4 | 7 42 | 22 25 | 22 24 | 0 16 | | n.a. |
| W10 | 22 49 | 6 20 | 5 12 | 24 32 | 1 12 | 22 25 | 1 50 | 12 46 | 0 33 | 23 27 | 0 38 | 20 53 | 1 14 | 15 27 | 0 17 | 20 37 | 1 15 | 12 4 | 7 42 | 22 25 | 22 24 | 0 13 | | n.a. |
| T 11 | 22 56 | 0 59 | 5 16 | 24 18 | 1 4 | 22 9 | 1 47 | 13 1 | 0 33 | 23 26 | 0 38 | 20 53 | 1 14 | 15 28 | 0 17 | 20 38 | 1 15 | 12 5 | 7 42 | 22 25 | 22 23 | 0 11 | | n.a. |
| F 12 | 23 2 | 4n27 | 5 1 | 24 3 | 0 56 | 21 52 | 1 45 | 13 15 | 0 32 | 23 25 | 0 38 | 20 52 | 1 14 | 15 29 | 0 17 | 20 38 | 1 15 | 12 5 | 7 42 | 22 25 | 22 23 | 0 8 | | n.a. |
| S 13 | 23 7 | 9 37 | 4 28 | 23 47 | 0 47 | 21 35 | 1 42 | 13 30 | 0 31 | 23 23 | 0 38 | 20 52 | 1 13 | 15 29 | 0 17 | 20 38 | 1 15 | 12 5 | 7 42 | 22 25 | 22 22 | 0 6 | | n.a. |
| S 14 | 23 12 | 14 16 | 3 39 | 23 30 | 0 38 | 21 17 | 1 39 | 13 44 | 0 31 | 23 22 | 0 38 | 20 51 | 1 13 | 15 30 | 0 17 | 20 39 | 1 15 | 12 6 | 7 42 | 22 25 | 22 22 | 0 3 | | n.a. |
| M15 | 23 17 | 18 5 | 2 37 | 23 12 | 0 28 | 20 59 | 1 36 | 13 58 | 0 30 | 23 20 | 0 38 | 20 50 | 1 13 | 15 31 | 0 17 | 20 39 | 1 15 | 12 6 | 7 42 | 22 25 | 22 22 | 0 0 | | n.a. |
| T 16 | 23 21 | 20 49 | 1 26 | 22 54 | 0 18 | 20 40 | 1 33 | 14 12 | 0 29 | 23 19 | 0 38 | 20 50 | 1 13 | 15 32 | 0 17 | 20 40 | 1 15 | 12 6 | 7 42 | 22 25 | 22 21 | 0s 2 | | n.a. |
| W17 | 23 25 | 22 18 | 0 12 | 22 35 | 0 7 | 20 21 | 1 29 | 14 26 | 0 29 | 23 17 | 0 38 | 20 49 | 1 13 | 15 33 | 0 17 | 20 40 | 1 15 | 12 6 | 7 43 | 22 25 | 22 21 | 0 5 | | n.a. |
| T 18 | 23 29 | 22 29 | 1s 2 | 22 16 | 0s 3 | 20 2 | 1 26 | 14 39 | 0 28 | 23 16 | 0 39 | 20 49 | 1 13 | 15 34 | 0 17 | 20 40 | 1 15 | 12 7 | 7 43 | 22 25 | 22 20 | 0 7 | | n.a. |
| F 19 | 23 32 | 21 23 | 2 11 | 21 57 | 0 15 | 19 42 | 1 22 | 14 53 | 0 28 | 23 14 | 0 39 | 20 48 | 1 13 | 15 35 | 0 17 | 20 41 | 1 15 | 12 7 | 7 43 | 22 25 | 22 20 | 0 10 | | n.a. |
| S 20 | 23 35 | 19 12 | 3 12 | 21 37 | 0 26 | 19 22 | 1 19 | 15 6 | 0 27 | 23 13 | 0 39 | 20 48 | 1 13 | 15 36 | 0 17 | 20 41 | 1 15 | 12 7 | 7 43 | 22 25 | 22 19 | 0 12 | | n.a. |
| S 21 | 23 37 | 16 8 | 4 2 | 21 17 | 0 38 | 19 1 | 1 15 | 15 20 | 0 26 | 23 11 | 0 39 | 20 47 | 1 13 | 15 37 | 0 17 | 20 41 | 1 15 | 12 7 | 7 43 | 22 25 | 22 19 | 0 15 | | n.a. |
| M22 | 23 39 | 12 25 | 4 39 | 20 57 | 0 51 | 18 40 | 1 11 | 15 33 | 0 26 | 23 9 | 0 39 | 20 47 | 1 13 | 15 37 | 0 17 | 20 42 | 1 15 | 12 8 | 7 43 | 22 24 | 22 18 | 0 17 | | n.a. |
| T 23 | 23 40 | 8 16 | 5 4 | 20 37 | 1 3 | 18 19 | 1 7 | 15 46 | 0 25 | 23 8 | 0 39 | 20 46 | 1 12 | 15 38 | 0 17 | 20 42 | 1 15 | 12 8 | 7 43 | 22 24 | 22 18 | 0 20 | | n.a. |
| W24 | 23 41 | 3 51 | 5 15 | 20 17 | 1 16 | 17 57 | 1 3 | 15 59 | 0 24 | 23 6 | 0 39 | 20 46 | 1 12 | 15 39 | 0 17 | 20 42 | 1 15 | 12 8 | 7 43 | 22 24 | 22 18 | 0 22 | | n.a. |
| T 25 | 23 42 | 0s41 | 5 12 | 19 58 | 1 29 | 17 35 | 0 58 | 16 11 | 0 23 | 23 4 | 0 39 | 20 45 | 1 12 | 15 40 | 0 17 | 20 43 | 1 15 | 12 8 | 7 43 | 22 24 | 22 17 | 0 25 | | n.a. |
| F 26 | 23 42 | 5 11 | 4 56 | 19 38 | 1 42 | 17 12 | 0 54 | 16 24 | 0 23 | 23 3 | 0 39 | 20 45 | 1 12 | 15 41 | 0 17 | 20 43 | 1 15 | 12 9 | 7 43 | 22 24 | 22 17 | 0 27 | | n.a. |
| S 27 | 23 42 | 9 31 | 4 27 | 19 20 | 1 56 | 16 50 | 0 49 | 16 36 | 0 22 | 23 1 | 0 39 | 20 44 | 1 12 | 15 42 | 0 17 | 20 43 | 1 15 | 12 9 | 7 43 | 22 24 | 22 16 | 0 30 | | n.a. |
| S 28 | 23 41 | 13 33 | 3 46 | 19 2 | 2 9 | 16 27 | 0 44 | 16 49 | 0 21 | 22 59 | 0 39 | 20 44 | 1 12 | 15 42 | 0 17 | 20 44 | 1 15 | 12 9 | 7 43 | 22 24 | 22 16 | 0 32 | | n.a. |
| M29 | 23 40 | 17 5 | 2 54 | 18 45 | 2 23 | 16 3 | 0 39 | 17 1 | 0 21 | 22 57 | 0 39 | 20 43 | 1 12 | 15 43 | 0 17 | 20 44 | 1 15 | 12 9 | 7 43 | 22 24 | 22 15 | 0 35 | | n.a. |
| T 30 | 23n39 | 19s54 | 1s52 | 18n29 | 2s36 | 15n40 | 0n34 | 17n13 | 0s20 | 22n55 | 0n39 | 20s43 | 1n11 | 15n44 | 0s17 | 20n44 | 1s15 | 12n 9 | 7s43 | 22s24 | 22s15 | 0s37 | | n.a. |

Julian Day Number = 1694545.5, Delta T = 03h08m44s
Ecliptic obliquity = 23°42'11, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°04'49, Lahiri = - 4°57'48 Julian Calendar 1 June 74 BCE == Greg. Calendar 30 May 074 BCE

The year -73 astronomical counting style corresponds to year 074 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 74 BCE
# geocentric

## JULY 74 BCE (-73) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 18 22 56 | 4♋48'09 | 3♐32 | 26♋59 | 20♌30 | 19♉12 | 19♋38 | 7°R58 | 13♉21 | 8♊37 | 26♉53 | 11♐30 | 10♐18 | 20♍ 2 | n.a. | W 1 |
| T 2 | 18 26 53 | 5°45'29 | 16°48 | 27° 6 | 21°29 | 19°52 | 19°51 | 7♐54 | 13°23 | 8°39 | 26°54 | 11°R30 | 10°15 | 20° 9 | n.a. | T 2 |
| F 3 | 18 30 49 | 6°42'50 | 0♑25 | 27°R 7 | 22°27 | 20°32 | 20° 4 | 7°50 | 13°26 | 8°41 | 26°55 | 11°29 | 10°11 | 20°15 | n.a. | F 3 |
| S 4 | 18 34 46 | 7°40'11 | 14°22 | 27° 4 | 23°25 | 21°12 | 20°17 | 7°47 | 13°28 | 8°43 | 26°56 | 11°27 | 10° 8 | 20°22 | n.a. | S 4 |
| S 5 | 18 38 42 | 8°37'34 | 28°36 | 26°55 | 24°22 | 21°52 | 20°30 | 7°43 | 13°31 | 8°45 | 26°57 | 11°24 | 10° 5 | 20°29 | n.a. | S 5 |
| M 6 | 18 42 39 | 9°34'58 | 13♒ 0 | 26°41 | 25°19 | 22°31 | 20°43 | 7°40 | 13°33 | 8°47 | 26°58 | 11°20 | 10° 2 | 20°35 | n.a. | M 6 |
| T 7 | 18 46 36 | 10°32'23 | 27°30 | 26°21 | 26°15 | 23°11 | 20°56 | 7°37 | 13°35 | 8°49 | 26°59 | 11°16 | 9°59 | 20°42 | n.a. | T 7 |
| W 8 | 18 50 32 | 11°29'49 | 11♓59 | 25°57 | 27°11 | 23°51 | 21° 9 | 7°33 | 13°37 | 8°51 | 27° 1 | 11°12 | 9°56 | 20°49 | n.a. | W 8 |
| T 9 | 18 54 29 | 12°27'17 | 26°24 | 25°28 | 28° 6 | 24°30 | 21°22 | 7°30 | 13°40 | 8°53 | 27° 2 | 11°10 | 9°52 | 20°56 | n.a. | T 9 |
| F 10 | 18 58 25 | 13°24'46 | 10♈39 | 24°54 | 29° 1 | 25°10 | 21°35 | 7°27 | 13°42 | 8°55 | 27° 3 | 11°D 9 | 9°49 | 21° 2 | n.a. | F 10 |
| S 11 | 19 2 22 | 14°22'17 | 24°43 | 24°16 | 29°56 | 25°49 | 21°48 | 7°24 | 13°44 | 8°56 | 27° 4 | 11° 9 | 9°46 | 21° 9 | n.a. | S 11 |
| S 12 | 19 6 18 | 15°19'50 | 8♉34 | 23°34 | 0♍49 | 26°29 | 22° 1 | 7°21 | 13°46 | 8°58 | 27° 5 | 11°11 | 9°43 | 21°16 | n.a. | S 12 |
| M13 | 19 10 15 | 16°17'24 | 22°12 | 22°49 | 1°43 | 27° 8 | 22°14 | 7°18 | 13°48 | 9° 0 | 27° 6 | 11°12 | 9°40 | 21°22 | n.a. | M13 |
| T 14 | 19 14 11 | 17°14'59 | 5♊38 | 22° 2 | 2°35 | 27°47 | 22°27 | 7°15 | 13°50 | 9° 2 | 27° 7 | 11°R13 | 9°36 | 21°29 | n.a. | T 14 |
| W15 | 19 18 8 | 18°12'36 | 18°51 | 21°13 | 3°28 | 28°26 | 22°41 | 7°12 | 13°52 | 9° 4 | 27° 8 | 11°13 | 9°33 | 21°36 | n.a. | W15 |
| T 16 | 19 22 5 | 19°10'15 | 1♋52 | 20°23 | 4°19 | 29° 5 | 22°54 | 7°10 | 13°54 | 9° 6 | 27° 9 | 11°11 | 9°30 | 21°43 | n.a. | T 16 |
| F 17 | 19 26 1 | 20° 7'55 | 14°41 | 19°33 | 5°10 | 29°44 | 23° 7 | 7° 7 | 13°56 | 9° 7 | 27°10 | 11° 8 | 9°27 | 21°49 | n.a. | F 17 |
| S 18 | 19 29 58 | 21° 5'36 | 27°18 | 18°45 | 6° 0 | 0♊23 | 23°20 | 7° 4 | 13°58 | 9° 9 | 27°10 | 11° 2 | 9°24 | 21°56 | n.a. | S 18 |
| S 19 | 19 33 54 | 22° 3'19 | 9♌43 | 17°59 | 6°50 | 1° 2 | 23°33 | 7° 2 | 13°59 | 9°11 | 27°11 | 10°55 | 9°21 | 22° 3 | n.a. | S 19 |
| M20 | 19 37 51 | 23° 1'03 | 21°57 | 17°15 | 7°39 | 1°41 | 23°46 | 7° 0 | 14° 1 | 9°13 | 27°12 | 10°48 | 9°17 | 22°10 | n.a. | M20 |
| T 21 | 19 41 47 | 23°58'48 | 4♍ 1 | 16°36 | 8°27 | 2°19 | 23°59 | 6°57 | 14° 3 | 9°14 | 27°13 | 10°40 | 9°14 | 22°16 | n.a. | T 21 |
| W22 | 19 45 44 | 24°56'35 | 15°58 | 16° 2 | 9°14 | 2°58 | 24°12 | 6°55 | 14° 4 | 9°16 | 27°14 | 10°33 | 9°11 | 22°23 | n.a. | W22 |
| T 23 | 19 49 40 | 25°54'23 | 27°51 | 15°33 | 10° 1 | 3°36 | 24°26 | 6°53 | 14° 6 | 9°18 | 27°15 | 10°28 | 9° 8 | 22°30 | n.a. | T 23 |
| F 24 | 19 53 37 | 26°52'12 | 9♎42 | 15°10 | 10°47 | 4°15 | 24°39 | 6°51 | 14° 8 | 9°19 | 27°16 | 10°24 | 9° 5 | 22°36 | n.a. | F 24 |
| S 25 | 19 57 34 | 27°50'02 | 21°37 | 14°55 | 11°31 | 4°53 | 24°52 | 6°49 | 14° 9 | 9°21 | 27°16 | 10°22 | 9° 2 | 22°43 | n.a. | S 25 |
| S 26 | 20 1 30 | 28°47'54 | 3♏40 | 14°46 | 12°15 | 5°31 | 25° 5 | 6°47 | 14°11 | 9°23 | 27°17 | 10°D22 | 8°58 | 22°50 | n.a. | S 26 |
| M27 | 20 5 27 | 29°45'48 | 15°56 | 14°D45 | 12°58 | 6° 9 | 25°18 | 6°45 | 14°12 | 9°24 | 27°18 | 10°23 | 8°55 | 22°57 | n.a. | M27 |
| T 28 | 20 9 23 | 0♌43'42 | 28°31 | 14°52 | 13°40 | 6°47 | 25°31 | 6°43 | 14°13 | 9°26 | 27°19 | 10°24 | 8°52 | 23° 3 | n.a. | T 28 |
| W29 | 20 13 20 | 1°41'39 | 11♐28 | 15° 7 | 14°21 | 7°25 | 25°44 | 6°42 | 14°15 | 9°27 | 27°19 | 10°R25 | 8°49 | 23°10 | n.a. | W29 |
| T 30 | 20 17 16 | 2°39'36 | 24°50 | 15°30 | 15° 1 | 8° 3 | 25°57 | 6°40 | 14°16 | 9°29 | 27°20 | 10°24 | 8°46 | 23°17 | n.a. | T 30 |
| F 31 | 20 21 13 | 3♌37'35 | 8♑39 | 16♋ 2 | 15♍40 | 8♊41 | 26♋10 | 6♐39 | 14♉17 | 9♊30 | 27♉21 | 10♐21 | 8♐42 | 23♍23 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| W 1 | 23n37 | 21s48 | 0s44 | 18n13 | 2s49 | 15n16 | 0n29 | 17n24 | 0s19 | 22n54 | 0n39 | 20s42 | 1n11 | 15n45 | 0s17 | 20n45 | 1s15 | 12n10 | 7s43 | 22s25 | 22s14 | 0s40 | | | n.a. |
| T 2 | 23 35 | 22 33 | 0n29 | 17 59 | 3 3 | 14 52 | 0 23 | 17 36 | 0 19 | 22 52 | 0 39 | 20 42 | 1 11 | 15 45 | 0 17 | 20 45 | 1 15 | 12 10 | 7 43 | 22 25 | 22 14 | 0 42 | | | n.a. |
| F 3 | 23 32 | 22 0 | 1 42 | 17 46 | 3 15 | 14 28 | 0 18 | 17 48 | 0 18 | 22 50 | 0 39 | 20 41 | 1 11 | 15 46 | 0 17 | 20 45 | 1 15 | 12 10 | 7 43 | 22 24 | 22 13 | 0 45 | | | n.a. |
| S 4 | 23 29 | 20 5 | 2 51 | 17 35 | 3 28 | 14 3 | 0 12 | 17 59 | 0 17 | 22 48 | 0 39 | 20 41 | 1 11 | 15 47 | 0 17 | 20 45 | 1 15 | 12 10 | 7 43 | 22 24 | 22 13 | 0 47 | | | n.a. |
| S 5 | 23 25 | 16 55 | 3 50 | 17 25 | 3 40 | 13 39 | 0 6 | 18 10 | 0 16 | 22 46 | 0 39 | 20 40 | 1 11 | 15 48 | 0 17 | 20 46 | 1 15 | 12 10 | 7 43 | 22 24 | 22 12 | 0 50 | | | n.a. |
| M 6 | 23 21 | 12 42 | 4 35 | 17 16 | 3 51 | 13 14 | 0 0 | 18 21 | 0 16 | 22 44 | 0 40 | 20 40 | 1 11 | 15 48 | 0 17 | 20 46 | 1 15 | 12 11 | 7 43 | 22 23 | 22 12 | 0 53 | | | n.a. |
| T 7 | 23 17 | 7 43 | 5 4 | 17 9 | 4 2 | 12 49 | 0s 6 | 18 32 | 0 15 | 22 42 | 0 40 | 20 40 | 1 10 | 15 49 | 0 17 | 20 46 | 1 15 | 12 11 | 7 43 | 22 23 | 22 11 | 0 55 | | | n.a. |
| W 8 | 23 12 | 2 20 | 5 12 | 17 4 | 4 11 | 12 24 | 0 12 | 18 43 | 0 14 | 22 40 | 0 40 | 20 39 | 1 10 | 15 50 | 0 17 | 20 47 | 1 15 | 12 11 | 7 44 | 22 22 | 22 11 | 0 58 | | | n.a. |
| T 9 | 23 7 | 3n 9 | 5 2 | 17 1 | 4 20 | 11 59 | 0 18 | 18 53 | 0 13 | 22 38 | 0 40 | 20 39 | 1 10 | 15 50 | 0 17 | 20 47 | 1 15 | 12 11 | 7 44 | 22 22 | 22 11 | 1 0 | | | n.a. |
| F 10 | 23 1 | 8 25 | 4 32 | 17 0 | 4 28 | 11 33 | 0 25 | 19 4 | 0 13 | 22 36 | 0 40 | 20 39 | 1 10 | 15 51 | 0 17 | 20 47 | 1 15 | 12 11 | 7 44 | 22 22 | 22 10 | 1 3 | | | n.a. |
| S 11 | 22 55 | 13 11 | 3 47 | 17 1 | 4 34 | 11 8 | 0 32 | 19 14 | 0 12 | 22 34 | 0 40 | 20 38 | 1 10 | 15 52 | 0 17 | 20 47 | 1 15 | 12 11 | 7 44 | 22 22 | 22 10 | 1 5 | | | n.a. |
| S 12 | 22 49 | 17 10 | 2 49 | 17 3 | 4 38 | 10 42 | 0 38 | 19 24 | 0 11 | 22 32 | 0 40 | 20 38 | 1 10 | 15 52 | 0 17 | 20 48 | 1 15 | 12 12 | 7 44 | 22 22 | 22 9 | 1 8 | | | n.a. |
| M13 | 22 42 | 20 10 | 1 42 | 17 8 | 4 41 | 10 17 | 0 45 | 19 34 | 0 10 | 22 30 | 0 40 | 20 38 | 1 10 | 15 53 | 0 17 | 20 48 | 1 15 | 12 12 | 7 44 | 22 22 | 22 9 | 1 10 | | | n.a. |
| T 14 | 22 35 | 21 59 | 0 30 | 17 14 | 4 42 | 9 51 | 0 53 | 19 44 | 0 10 | 22 28 | 0 40 | 20 37 | 1 9 | 15 53 | 0 17 | 20 48 | 1 15 | 12 12 | 7 44 | 22 22 | 22 8 | 1 13 | | | n.a. |
| W15 | 22 27 | 22 32 | 0s41 | 17 22 | 4 42 | 9 25 | 1 0 | 19 53 | 0 9 | 22 26 | 0 40 | 20 37 | 1 9 | 15 54 | 0 17 | 20 49 | 1 15 | 12 12 | 7 44 | 22 22 | 22 8 | 1 15 | | | n.a. |
| T 16 | 22 19 | 21 51 | 1 50 | 17 32 | 4 40 | 8 59 | 1 7 | 20 3 | 0 8 | 22 24 | 0 40 | 20 37 | 1 9 | 15 55 | 0 17 | 20 49 | 1 16 | 12 12 | 7 44 | 22 22 | 22 7 | 1 18 | | | n.a. |
| F 17 | 22 10 | 20 2 | 2 52 | 17 43 | 4 35 | 8 34 | 1 15 | 20 12 | 0 7 | 22 22 | 0 40 | 20 36 | 1 9 | 15 55 | 0 17 | 20 49 | 1 16 | 12 12 | 7 44 | 22 21 | 22 7 | 1 20 | | | n.a. |
| S 18 | 22 2 | 17 16 | 3 44 | 17 56 | 4 29 | 8 8 | 1 23 | 20 21 | 0 7 | 22 19 | 0 40 | 20 36 | 1 9 | 15 56 | 0 17 | 20 49 | 1 16 | 12 12 | 7 44 | 22 21 | 22 6 | 1 22 | | | n.a. |
| S 19 | 21 52 | 13 46 | 4 24 | 18 10 | 4 21 | 7 42 | 1 30 | 20 30 | 0 6 | 22 17 | 0 40 | 20 36 | 1 9 | 15 56 | 0 17 | 20 50 | 1 16 | 12 12 | 7 44 | 22 20 | 22 6 | 1 25 | | | n.a. |
| M20 | 21 43 | 9 45 | 4 52 | 18 25 | 4 12 | 7 16 | 1 38 | 20 39 | 0 5 | 22 15 | 0 41 | 20 36 | 1 8 | 15 57 | 0 17 | 20 50 | 1 16 | 12 13 | 7 45 | 22 19 | 22 5 | 1 27 | | | n.a. |
| T 21 | 21 33 | 5 23 | 5 6 | 18 41 | 4 0 | 6 51 | 1 47 | 20 47 | 0 4 | 22 13 | 0 41 | 20 35 | 1 8 | 15 57 | 0 17 | 20 50 | 1 16 | 12 13 | 7 45 | 22 18 | 22 5 | 1 30 | | | n.a. |
| W22 | 21 23 | 0 53 | 5 7 | 18 58 | 3 48 | 6 25 | 1 55 | 20 56 | 0 3 | 22 11 | 0 41 | 20 35 | 1 8 | 15 58 | 0 17 | 20 50 | 1 16 | 12 13 | 7 45 | 22 17 | 22 4 | 1 32 | | | n.a. |
| T 23 | 21 12 | 3s37 | 4 54 | 19 15 | 3 34 | 6 0 | 2 3 | 21 4 | 0 3 | 22 8 | 0 41 | 20 35 | 1 8 | 15 58 | 0 17 | 20 51 | 1 16 | 12 13 | 7 45 | 22 16 | 22 4 | 1 35 | | | n.a. |
| F 24 | 21 1 | 8 0 | 4 29 | 19 32 | 3 19 | 5 35 | 2 12 | 21 12 | 0 2 | 22 6 | 0 41 | 20 35 | 1 8 | 15 59 | 0 17 | 20 51 | 1 16 | 12 13 | 7 45 | 22 15 | 22 3 | 1 37 | | | n.a. |
| S 25 | 20 49 | 12 6 | 3 52 | 19 50 | 3 3 | 5 9 | 2 20 | 21 20 | 0 1 | 22 4 | 0 41 | 20 35 | 1 8 | 15 59 | 0 17 | 20 51 | 1 16 | 12 13 | 7 45 | 22 15 | 22 3 | 1 40 | | | n.a. |
| S 26 | 20 38 | 15 46 | 3 5 | 20 7 | 2 46 | 4 44 | 2 29 | 21 27 | 0 0 | 22 1 | 0 41 | 20 34 | 1 7 | 16 0 | 0 17 | 20 51 | 1 16 | 12 13 | 7 45 | 22 15 | 22 2 | 1 42 | | | n.a. |
| M27 | 20 25 | 18 50 | 2 8 | 20 24 | 2 29 | 4 20 | 2 38 | 21 35 | 0n 1 | 21 59 | 0 41 | 20 34 | 1 7 | 16 0 | 0 17 | 20 51 | 1 16 | 12 13 | 7 45 | 22 15 | 22 2 | 1 45 | | | n.a. |
| T 28 | 20 13 | 21 5 | 1 4 | 20 41 | 2 12 | 3 55 | 2 47 | 21 42 | 0 1 | 21 57 | 0 41 | 20 34 | 1 7 | 16 0 | 0 17 | 20 52 | 1 16 | 12 13 | 7 45 | 22 15 | 22 1 | 1 47 | | | n.a. |
| W29 | 20 0 | 22 19 | 0n 6 | 20 57 | 1 54 | 3 31 | 2 57 | 21 50 | 0 2 | 21 54 | 0 41 | 20 34 | 1 7 | 16 1 | 0 17 | 20 52 | 1 16 | 12 13 | 7 46 | 22 15 | 22 1 | 1 50 | | | n.a. |
| T 30 | 19 47 | 22 19 | 1 17 | 21 11 | 1 37 | 3 7 | 3 6 | 21 57 | 0 3 | 21 52 | 0 41 | 20 34 | 1 7 | 16 1 | 0 17 | 20 52 | 1 16 | 12 13 | 7 46 | 22 15 | 22 0 | 1 52 | | | n.a. |
| F 31 | 19n33 | 21s 0 | 2n26 | 21n25 | 1s19 | 2n43 | 3s15 | 22n 3 | 0n 4 | 21n50 | 0n42 | 20s34 | 1n 7 | 16n 1 | 0s17 | 20n52 | 1s16 | 12n13 | 7s46 | 22s15 | 22s 0 | 1s55 | | | n.a. |

Julian Day Number = 1694575.5, Delta T = 03h08m43s
Ecliptic obliquity = 23°42'11, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°04'45, Lahiri = - 4°57'44 Julian Calendar 1 July 74 BCE == Greg. Calendar 29 June 074 BCE

The year -73 astronomical counting style corresponds to year 074 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 74 BCE
# geocentric

## AUGUST 74 BCE (-73) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 25 9 | 4♌35'36 | 22♉54 | 16♋41 | 16♍18 | 9♊19 | 26♋24 | 6°R37 | 14♉18 | 9♊32 | 27♉21 | 10°R16 | 8♐39 | 23♍30 | n.a. | S 1 |
| S 2 | 20 29 6 | 5°33'38 | 7♒30 | 17°27 | 16°54 | 9°56 | 26°37 | 6♐36 | 14°19 | 9°33 | 27°22 | 10♐ 8 | 8°36 | 23°37 | n.a. | S 2 |
| M 3 | 20 33 3 | 6°31'43 | 22°20 | 18°22 | 17°30 | 10°34 | 26°50 | 6°35 | 14°21 | 9°35 | 27°23 | 10° 0 | 8°33 | 23°44 | n.a. | M 3 |
| T 4 | 20 36 59 | 7°29'48 | 7♓17 | 19°23 | 18° 4 | 11°11 | 27° 3 | 6°34 | 14°22 | 9°36 | 27°23 | 9°51 | 8°30 | 23°50 | n.a. | T 4 |
| W 5 | 20 40 56 | 8°27'56 | 22°10 | 20°31 | 18°36 | 11°49 | 27°16 | 6°33 | 14°23 | 9°37 | 27°24 | 9°44 | 8°27 | 23°57 | n.a. | W 5 |
| T 6 | 20 44 52 | 9°26'06 | 6♈52 | 21°46 | 19° 8 | 12°26 | 27°29 | 6°32 | 14°24 | 9°39 | 27°24 | 9°38 | 8°23 | 24° 4 | n.a. | T 6 |
| F 7 | 20 48 49 | 10°24'18 | 21°18 | 23° 6 | 19°38 | 13° 3 | 27°42 | 6°31 | 14°24 | 9°40 | 27°25 | 9°34 | 8°20 | 24°10 | n.a. | F 7 |
| S 8 | 20 52 45 | 11°22'32 | 5♉24 | 24°32 | 20° 6 | 13°40 | 27°55 | 6°31 | 14°25 | 9°41 | 27°26 | 9°33 | 8°17 | 24°17 | n.a. | S 8 |
| S 9 | 20 56 42 | 12°20'49 | 19°10 | 26° 2 | 20°33 | 14°17 | 28° 8 | 6°30 | 14°26 | 9°42 | 27°26 | 9°D33 | 8°14 | 24°24 | n.a. | S 9 |
| M10 | 21 0 38 | 13°19'07 | 2♊36 | 27°37 | 20°58 | 14°54 | 28°20 | 6°30 | 14°27 | 9°44 | 27°27 | 9°R33 | 8°11 | 24°31 | n.a. | M10 |
| T 11 | 21 4 35 | 14°17'28 | 15°45 | 29°16 | 21°22 | 15°31 | 28°33 | 6°29 | 14°27 | 9°45 | 27°27 | 9°33 | 8° 8 | 24°37 | n.a. | T 11 |
| W12 | 21 8 32 | 15°15'51 | 28°40 | 0♌58 | 21°44 | 16° 8 | 28°46 | 6°29 | 14°28 | 9°46 | 27°27 | 9°31 | 8° 4 | 24°44 | n.a. | W12 |
| T 13 | 21 12 28 | 16°14'16 | 11♋21 | 2°43 | 22° 4 | 16°44 | 28°59 | 6°29 | 14°29 | 9°47 | 27°28 | 9°27 | 8° 1 | 24°51 | n.a. | T 13 |
| F 14 | 21 16 25 | 17°12'44 | 23°52 | 4°30 | 22°22 | 17°21 | 29°12 | 6°29 | 14°29 | 9°48 | 27°28 | 9°21 | 7°58 | 24°58 | n.a. | F 14 |
| S 15 | 21 20 21 | 18°11'13 | 6♌14 | 6°19 | 22°39 | 17°57 | 29°25 | 6°D29 | 14°30 | 9°49 | 27°29 | 9°11 | 7°55 | 25° 4 | n.a. | S 15 |
| S 16 | 21 24 18 | 19° 9'44 | 18°27 | 8°10 | 22°53 | 18°34 | 29°37 | 6°29 | 14°30 | 9°50 | 27°29 | 8°59 | 7°52 | 25°11 | n.a. | S 16 |
| M17 | 21 28 14 | 20° 8'18 | 0♍32 | 10° 1 | 23° 6 | 19°10 | 29°50 | 6°29 | 14°31 | 9°51 | 27°29 | 8°46 | 7°48 | 25°18 | n.a. | M17 |
| T 18 | 21 32 11 | 21° 6'53 | 12°31 | 11°54 | 23°16 | 19°46 | 0♌ 3 | 6°29 | 14°31 | 9°52 | 27°30 | 8°33 | 7°45 | 25°24 | n.a. | T 18 |
| W19 | 21 36 7 | 22° 5'30 | 24°24 | 13°46 | 23°24 | 20°22 | 0°15 | 6°29 | 14°31 | 9°53 | 27°30 | 8°21 | 7°42 | 25°31 | n.a. | W19 |
| T 20 | 21 40 4 | 23° 4'09 | 6♎15 | 15°39 | 23°31 | 20°58 | 0°28 | 6°30 | 14°31 | 9°54 | 27°30 | 8°11 | 7°39 | 25°38 | n.a. | T 20 |
| F 21 | 21 44 1 | 24° 2'50 | 18° 4 | 17°32 | 23°35 | 21°34 | 0°41 | 6°31 | 14°32 | 9°55 | 27°30 | 8° 3 | 7°36 | 25°45 | n.a. | F 21 |
| S 22 | 21 47 57 | 25° 1'32 | 29°57 | 19°25 | 23°R36 | 22° 9 | 0°53 | 6°31 | 14°32 | 9°56 | 27°31 | 7°58 | 7°33 | 25°51 | n.a. | S 22 |
| S 23 | 21 51 54 | 26° 0'17 | 11♏58 | 21°17 | 23°35 | 22°45 | 1° 6 | 6°32 | 14°32 | 9°57 | 27°31 | 7°55 | 7°29 | 25°58 | n.a. | S 23 |
| M24 | 21 55 50 | 26°59'03 | 24°10 | 23° 8 | 23°32 | 23°21 | 1°18 | 6°33 | 14°R32 | 9°58 | 27°31 | 7°D54 | 7°26 | 26° 5 | n.a. | M24 |
| T 25 | 21 59 47 | 27°57'52 | 6♐41 | 25° 0 | 23°27 | 23°56 | 1°31 | 6°34 | 14°32 | 9°58 | 27°31 | 7°R55 | 7°23 | 26°11 | n.a. | T 25 |
| W26 | 22 3 43 | 28°56'42 | 19°33 | 26°50 | 23°19 | 24°31 | 1°43 | 6°35 | 14°32 | 9°59 | 27°31 | 7°54 | 7°20 | 26°18 | n.a. | W26 |
| T 27 | 22 7 40 | 29°55'34 | 2♑53 | 28°40 | 23° 9 | 25° 6 | 1°55 | 6°36 | 14°31 | 10° 0 | 27°31 | 7°52 | 7°17 | 26°25 | n.a. | T 27 |
| F 28 | 22 11 36 | 0♍54'28 | 16°42 | 0♍29 | 22°56 | 25°41 | 2° 7 | 6°37 | 14°31 | 10° 0 | 27°31 | 7°48 | 7°13 | 26°32 | n.a. | F 28 |
| S 29 | 22 15 33 | 1°53'23 | 1♒ 0 | 2°17 | 22°41 | 26°16 | 2°20 | 6°39 | 14°31 | 10° 1 | 27°32 | 7°41 | 7°10 | 26°38 | n.a. | S 29 |
| S 30 | 22 19 30 | 2°52'21 | 15°46 | 4° 4 | 22°24 | 26°51 | 2°32 | 6°40 | 14°31 | 10° 2 | 27°32 | 7°32 | 7° 7 | 26°45 | n.a. | S 30 |
| M31 | 22 23 26 | 3♍51'20 | 0♓51 | 5♍50 | 22♍ 4 | 27♊26 | 2♌44 | 6♐42 | 14♉30 | 10♊ 2 | 27°R32 | 7♐21 | 7♐ 4 | 26♍52 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 19n19 | 18s20 | 3n27 | 21n37 | 1s 2 | 2n19 | 3s25 | 22n10 | 0n 5 | 21n47 | 0n42 | 20s34 | 1n 6 | 16n 2 | 0s17 | 20n52 | 1s16 | 12n13 | 7s46 | 22s14 | 21s59 | 1s57 | | n.a. |
| S 2 | 19 5 | 14 27 | 4 17 | 21 48 | 0 46 | 1 56 | 3 35 | 22 17 | 0 6 | 21 45 | 0 42 | 20 34 | 1 6 | 16 2 | 0 17 | 20 53 | 1 16 | 12 13 | 7 46 | 22 13 | 21 59 | 2 0 | | n.a. |
| M 3 | 18 51 | 9 38 | 4 50 | 21 56 | 0 30 | 1 33 | 3 45 | 22 23 | 0 7 | 21 42 | 0 42 | 20 34 | 1 6 | 16 2 | 0 17 | 20 53 | 1 16 | 12 13 | 7 46 | 22 12 | 21 58 | 2 2 | | n.a. |
| T 4 | 18 36 | 4 14 | 5 4 | 22 3 | 0 14 | 1 11 | 3 55 | 22 29 | 0 7 | 21 40 | 0 42 | 20 34 | 1 6 | 16 3 | 0 17 | 20 53 | 1 16 | 12 13 | 7 46 | 22 10 | 21 58 | 2 5 | | n.a. |
| W 5 | 18 21 | 1n24 | 4 58 | 22 8 | 0n 1 | 0 49 | 4 5 | 22 35 | 0 8 | 21 37 | 0 42 | 20 34 | 1 6 | 16 3 | 0 17 | 20 53 | 1 16 | 12 13 | 7 46 | 22 9 | 21 57 | 2 7 | | n.a. |
| T 6 | 18 5 | 6 54 | 4 31 | 22 10 | 0 14 | 0 27 | 4 15 | 22 41 | 0 9 | 21 35 | 0 42 | 20 34 | 1 5 | 16 3 | 0 17 | 20 53 | 1 16 | 12 13 | 7 46 | 22 8 | 21 57 | 2 10 | | n.a. |
| F 7 | 17 50 | 11 55 | 3 48 | 22 9 | 0 27 | 0 6 | 4 25 | 22 47 | 0 10 | 21 32 | 0 42 | 20 34 | 1 5 | 16 4 | 0 17 | 20 54 | 1 16 | 12 13 | 7 47 | 22 8 | 21 56 | 2 12 | | n.a. |
| S 8 | 17 33 | 16 9 | 2 52 | 22 6 | 0 40 | 0s15 | 4 35 | 22 52 | 0 11 | 21 30 | 0 42 | 20 34 | 1 5 | 16 4 | 0 17 | 20 54 | 1 16 | 12 13 | 7 47 | 22 8 | 21 56 | 2 14 | | n.a. |
| S 9 | 17 17 | 19 25 | 1 47 | 22 0 | 0 51 | 0 35 | 4 46 | 22 58 | 0 12 | 21 27 | 0 42 | 20 34 | 1 5 | 16 4 | 0 17 | 20 54 | 1 16 | 12 13 | 7 47 | 22 8 | 21 55 | 2 17 | | n.a. |
| M10 | 17 0 | 21 31 | 0 37 | 21 51 | 1 1 | 0 55 | 4 56 | 23 3 | 0 13 | 21 25 | 0 43 | 20 34 | 1 5 | 16 4 | 0 17 | 20 54 | 1 16 | 12 13 | 7 47 | 22 8 | 21 55 | 2 19 | | n.a. |
| T 11 | 16 43 | 22 23 | 0s33 | 21 40 | 1 10 | 1 14 | 5 7 | 23 8 | 0 14 | 21 22 | 0 43 | 20 34 | 1 5 | 16 4 | 0 17 | 20 54 | 1 16 | 12 13 | 7 47 | 22 8 | 21 54 | 2 22 | | n.a. |
| W12 | 16 26 | 22 2 | 1 40 | 21 26 | 1 18 | 1 32 | 5 17 | 23 13 | 0 14 | 21 20 | 0 43 | 20 34 | 1 4 | 16 5 | 0 17 | 20 54 | 1 16 | 12 13 | 7 47 | 22 7 | 21 54 | 2 24 | | n.a. |
| T 13 | 16 9 | 20 33 | 2 41 | 21 9 | 1 25 | 1 50 | 5 28 | 23 17 | 0 15 | 21 17 | 0 43 | 20 34 | 1 4 | 16 5 | 0 17 | 20 54 | 1 16 | 12 13 | 7 47 | 22 7 | 21 53 | 2 27 | | n.a. |
| F 14 | 15 51 | 18 5 | 3 32 | 20 49 | 1 31 | 2 7 | 5 38 | 23 22 | 0 16 | 21 15 | 0 43 | 20 35 | 1 4 | 16 5 | 0 17 | 20 55 | 1 16 | 12 13 | 7 47 | 22 6 | 21 53 | 2 29 | | n.a. |
| S 15 | 15 33 | 14 50 | 4 13 | 20 27 | 1 36 | 2 23 | 5 49 | 23 26 | 0 17 | 21 12 | 0 43 | 20 35 | 1 4 | 16 5 | 0 18 | 20 55 | 1 16 | 12 13 | 7 48 | 22 4 | 21 52 | 2 32 | | n.a. |
| S 16 | 15 14 | 11 0 | 4 42 | 20 3 | 1 41 | 2 38 | 5 59 | 23 30 | 0 18 | 21 9 | 0 43 | 20 35 | 1 4 | 16 5 | 0 18 | 20 55 | 1 16 | 12 13 | 7 48 | 22 2 | 21 52 | 2 34 | | n.a. |
| M17 | 14 56 | 6 46 | 4 58 | 19 36 | 1 44 | 2 53 | 6 10 | 23 34 | 0 19 | 21 7 | 0 43 | 20 35 | 1 4 | 16 5 | 0 18 | 20 55 | 1 16 | 12 13 | 7 48 | 22 0 | 21 51 | 2 36 | | n.a. |
| T 18 | 14 37 | 2 19 | 5 0 | 19 7 | 1 47 | 3 7 | 6 20 | 23 38 | 0 20 | 21 4 | 0 43 | 20 35 | 1 3 | 16 5 | 0 18 | 20 55 | 1 16 | 12 13 | 7 48 | 21 58 | 21 51 | 2 39 | | n.a. |
| W19 | 14 18 | 2s10 | 4 49 | 18 36 | 1 48 | 3 19 | 6 31 | 23 42 | 0 21 | 21 2 | 0 44 | 20 36 | 1 3 | 16 6 | 0 18 | 20 55 | 1 16 | 12 13 | 7 48 | 21 56 | 21 50 | 2 41 | | n.a. |
| T 20 | 13 59 | 6 34 | 4 26 | 18 3 | 1 49 | 3 31 | 6 41 | 23 45 | 0 22 | 20 59 | 0 44 | 20 36 | 1 3 | 16 6 | 0 18 | 20 55 | 1 16 | 12 13 | 7 48 | 21 55 | 21 50 | 2 44 | | n.a. |
| F 21 | 13 39 | 10 43 | 3 51 | 17 29 | 1 50 | 3 42 | 6 51 | 23 49 | 0 23 | 20 56 | 0 44 | 20 36 | 1 3 | 16 6 | 0 18 | 20 55 | 1 16 | 12 13 | 7 48 | 21 53 | 21 49 | 2 46 | | n.a. |
| S 22 | 13 19 | 14 29 | 3 6 | 16 53 | 1 49 | 3 52 | 7 1 | 23 52 | 0 24 | 20 54 | 0 44 | 20 36 | 1 3 | 16 6 | 0 18 | 20 55 | 1 16 | 12 13 | 7 48 | 21 53 | 21 49 | 2 49 | | n.a. |
| S 23 | 12 59 | 17 42 | 2 13 | 16 16 | 1 48 | 4 0 | 7 10 | 23 55 | 0 25 | 20 51 | 0 44 | 20 37 | 1 2 | 16 6 | 0 18 | 20 56 | 1 17 | 12 13 | 7 49 | 21 52 | 21 48 | 2 51 | | n.a. |
| M24 | 12 39 | 20 11 | 1 12 | 15 38 | 1 47 | 4 7 | 7 20 | 23 58 | 0 26 | 20 48 | 0 44 | 20 37 | 1 2 | 16 6 | 0 18 | 20 56 | 1 17 | 12 13 | 7 49 | 21 52 | 21 47 | 2 53 | | n.a. |
| T 25 | 12 19 | 21 46 | 0 7 | 14 58 | 1 44 | 4 14 | 7 29 | 24 0 | 0 27 | 20 46 | 0 44 | 20 37 | 1 2 | 16 6 | 0 18 | 20 56 | 1 17 | 12 13 | 7 49 | 21 52 | 21 47 | 2 56 | | n.a. |
| W26 | 11 58 | 22 16 | 1n 1 | 14 18 | 1 42 | 4 18 | 7 37 | 24 3 | 0 28 | 20 43 | 0 44 | 20 38 | 1 2 | 16 6 | 0 18 | 20 56 | 1 17 | 12 12 | 7 49 | 21 52 | 21 46 | 2 58 | | n.a. |
| T 27 | 11 37 | 21 32 | 2 8 | 13 37 | 1 39 | 4 22 | 7 46 | 24 5 | 0 29 | 20 40 | 0 45 | 20 38 | 1 2 | 16 6 | 0 18 | 20 56 | 1 17 | 12 12 | 7 49 | 21 52 | 21 46 | 3 1 | | n.a. |
| F 28 | 11 16 | 19 31 | 3 10 | 12 55 | 1 35 | 4 24 | 7 54 | 24 8 | 0 30 | 20 38 | 0 45 | 20 39 | 1 2 | 16 6 | 0 18 | 20 56 | 1 17 | 12 12 | 7 49 | 21 51 | 21 45 | 3 3 | | n.a. |
| S 29 | 10 55 | 16 14 | 4 2 | 12 12 | 1 31 | 4 25 | 8 1 | 24 10 | 0 31 | 20 35 | 0 45 | 20 39 | 1 1 | 16 5 | 0 18 | 20 56 | 1 17 | 12 12 | 7 49 | 21 50 | 21 45 | 3 6 | | n.a. |
| S 30 | 10 34 | 11 51 | 4 39 | 11 29 | 1 27 | 4 25 | 8 8 | 24 12 | 0 32 | 20 32 | 0 45 | 20 39 | 1 1 | 16 5 | 0 18 | 20 56 | 1 17 | 12 12 | 7 49 | 21 48 | 21 44 | 3 8 | | n.a. |
| M31 | 10n12 | 6s39 | 4n58 | 10n45 | 1n23 | 4s23 | 8s14 | 24n13 | 0n33 | 20n30 | 0n45 | 20s40 | 1n 1 | 16n 5 | 0s18 | 20n56 | 1s17 | 12n12 | 7s50 | 21s47 | 21s44 | 3s10 | | n.a. |

Julian Day Number = 1694606.5, Delta T = 03h08m42s
Ecliptic obliquity = 23°42'11, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°04'41, Lahiri = - 4°57'40 Julian Calendar 1 Aug. 74 BCE == Greg. Calendar 30 July 074 BCE

The year -73 astronomical counting style corresponds to year 074 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 74 BCE
# geocentric

## SEPTEMBER 74 BCE (-73) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 22 27 23 | 4♍50'22 | 16♓ 6 | 7♍35 | 21°R42 | 28♊ 0 | 2♌56 | 6♐43 | 14°R30 | 10♊ 3 | 27°R32 | 7°R10 | 7♐ 1 | 26♍58 | n.a. | T 1 |
| W 2 | 22 31 19 | 5°49'25 | 1♈20 | 9°20 | 21♍18 | 28°35 | 3° 8 | 6°45 | 14♉30 | 10° 3 | 27♉32 | 7♐ 0 | 6°58 | 27° 5 | n.a. | W 2 |
| T 3 | 22 35 16 | 6°48'31 | 16°22 | 11° 4 | 20°52 | 29° 9 | 3°20 | 6°47 | 14°29 | 10° 4 | 27°32 | 6°51 | 6°54 | 27°12 | n.a. | T 3 |
| F 4 | 22 39 12 | 7°47'40 | 1♉ 4 | 12°47 | 20°24 | 29°43 | 3°32 | 6°49 | 14°28 | 10° 4 | 27°31 | 6°46 | 6°51 | 27°19 | n.a. | F 4 |
| S 5 | 22 43 9 | 8°46'51 | 15°22 | 14°29 | 19°54 | 0♋17 | 3°44 | 6°51 | 14°28 | 10° 5 | 27°31 | 6°43 | 6°48 | 27°25 | n.a. | S 5 |
| S 6 | 22 47 5 | 9°46'04 | 29°13 | 16°10 | 19°23 | 0°51 | 3°56 | 6°53 | 14°27 | 10° 5 | 27°31 | 6°42 | 6°45 | 27°32 | n.a. | S 6 |
| M 7 | 22 51 2 | 10°45'20 | 12♊39 | 17°50 | 18°50 | 1°25 | 4° 7 | 6°55 | 14°27 | 10° 5 | 27°31 | 6°42 | 6°42 | 27°39 | n.a. | M 7 |
| T 8 | 22 54 58 | 11°44'38 | 25°43 | 19°29 | 18°16 | 1°59 | 4°19 | 6°58 | 14°26 | 10° 6 | 27°31 | 6°41 | 6°39 | 27°45 | n.a. | T 8 |
| W 9 | 22 58 55 | 12°43'59 | 8♋27 | 21° 8 | 17°41 | 2°32 | 4°31 | 7° 0 | 14°25 | 10° 6 | 27°31 | 6°39 | 6°35 | 27°52 | n.a. | W 9 |
| T 10 | 23 2 52 | 13°43'22 | 20°57 | 22°46 | 17° 6 | 3° 6 | 4°42 | 7° 2 | 14°24 | 10° 6 | 27°31 | 6°35 | 6°32 | 27°59 | n.a. | T 10 |
| F 11 | 23 6 48 | 14°42'47 | 3♌16 | 24°23 | 16°30 | 3°39 | 4°54 | 7° 5 | 14°23 | 10° 6 | 27°30 | 6°27 | 6°29 | 28° 6 | n.a. | F 11 |
| S 12 | 23 10 45 | 15°42'15 | 15°25 | 26° 0 | 15°53 | 4°12 | 5° 5 | 7° 8 | 14°22 | 10° 6 | 27°30 | 6°17 | 6°26 | 28°12 | n.a. | S 12 |
| S 13 | 23 14 41 | 16°41'44 | 27°27 | 27°35 | 15°16 | 4°45 | 5°16 | 7°10 | 14°21 | 10° 6 | 27°30 | 6° 4 | 6°23 | 28°19 | n.a. | S 13 |
| M14 | 23 18 38 | 17°41'16 | 9♍25 | 29°10 | 14°40 | 5°18 | 5°28 | 7°13 | 14°20 | 10° 7 | 27°30 | 5°50 | 6°19 | 28°26 | n.a. | M14 |
| T 15 | 23 22 34 | 18°40'51 | 21°19 | 0♎45 | 14° 4 | 5°51 | 5°39 | 7°16 | 14°19 | 10° 7 | 27°29 | 5°36 | 6°16 | 28°32 | n.a. | T 15 |
| W16 | 23 26 31 | 19°40'27 | 3♎10 | 2°18 | 13°29 | 6°23 | 5°50 | 7°19 | 14°18 | 10°R 7 | 27°29 | 5°22 | 6°13 | 28°39 | n.a. | W16 |
| T 17 | 23 30 27 | 20°40'05 | 15° 0 | 3°51 | 12°54 | 6°55 | 6° 1 | 7°22 | 14°17 | 10° 7 | 27°29 | 5°11 | 6°10 | 28°46 | n.a. | T 17 |
| F 18 | 23 34 24 | 21°39'45 | 26°52 | 5°24 | 12°21 | 7°28 | 6°12 | 7°26 | 14°16 | 10° 7 | 27°28 | 5° 2 | 6° 7 | 28°53 | n.a. | F 18 |
| S 19 | 23 38 20 | 22°39'28 | 8♏46 | 6°55 | 11°49 | 8° 0 | 6°23 | 7°29 | 14°14 | 10° 7 | 27°28 | 4°57 | 6° 4 | 28°59 | n.a. | S 19 |
| S 20 | 23 42 17 | 23°39'12 | 20°48 | 8°26 | 11°18 | 8°32 | 6°34 | 7°32 | 14°13 | 10° 6 | 27°27 | 4°54 | 6° 0 | 29° 6 | n.a. | S 20 |
| M21 | 23 46 14 | 24°38'58 | 3♐ 0 | 9°56 | 10°50 | 9° 3 | 6°44 | 7°36 | 14°12 | 10° 6 | 27°27 | 4°D53 | 5°57 | 29°13 | n.a. | M21 |
| T 22 | 23 50 10 | 25°38'46 | 15°28 | 11°26 | 10°23 | 9°35 | 6°55 | 7°39 | 14°10 | 10° 6 | 27°26 | 4°53 | 5°54 | 29°19 | n.a. | T 22 |
| W23 | 23 54 7 | 26°38'36 | 28°15 | 12°55 | 9°57 | 10° 6 | 7° 6 | 7°43 | 14° 9 | 10° 6 | 27°26 | 4°R53 | 5°51 | 29°26 | n.a. | W23 |
| T 24 | 23 58 3 | 27°38'28 | 11♑27 | 14°23 | 9°34 | 10°38 | 7°16 | 7°47 | 14° 7 | 10° 6 | 27°26 | 4°52 | 5°48 | 29°33 | n.a. | T 24 |
| F 25 | 0 2 0 | 28°38'21 | 25° 8 | 15°51 | 9°14 | 11° 9 | 7°26 | 7°50 | 14° 6 | 10° 5 | 27°25 | 4°49 | 5°45 | 29°40 | n.a. | F 25 |
| S 26 | 0 5 56 | 29°38'16 | 9♒18 | 17°18 | 8°55 | 11°40 | 7°37 | 7°54 | 14° 4 | 10° 5 | 27°24 | 4°44 | 5°41 | 29°46 | n.a. | S 26 |
| S 27 | 0 9 53 | 0♎38'13 | 23°56 | 18°45 | 8°39 | 12°10 | 7°47 | 7°58 | 14° 3 | 10° 5 | 27°24 | 4°37 | 5°38 | 29°53 | n.a. | S 27 |
| M28 | 0 13 49 | 1°38'11 | 8♓58 | 20°10 | 8°25 | 12°41 | 7°57 | 8° 2 | 14° 1 | 10° 4 | 27°23 | 4°27 | 5°35 | 29°59 | n.a. | M28 |
| T 29 | 0 17 46 | 2°38'11 | 24°15 | 21°35 | 8°14 | 13°11 | 8° 7 | 8° 7 | 13°59 | 10° 4 | 27°23 | 4°18 | 5°32 | 0♎ 6 | n.a. | T 29 |
| W30 | 0 21 43 | 3♎38'14 | 9♈36 | 22♎59 | 8♍ 5 | 13♋41 | 8♌17 | 8♐11 | 13♉58 | 10♊ 3 | 27♉22 | 4♐ 9 | 5♐29 | 0♎13 | n.a. | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 9n50 | 1s 0 | 4n57 | 10n 1 | 1n18 | 4s19 | 8s20 | 24n15 | 0n34 | 20n27 | 0n45 | 20s40 | 1n 1 | 16n 5 | 0s18 | 20n56 | 1s17 | 12n12 | 7s50 | 21s45 | 21s43 | 3s13 | | n.a. |
| W 2 | 9 29 | 4n43 | 4 34 | 9 17 | 1 13 | 4 14 | 8 25 | 24 16 | 0 35 | 20 24 | 0 45 | 20 41 | 1 1 | 16 5 | 0 18 | 20 56 | 1 17 | 12 12 | 7 50 | 21 43 | 21 43 | 3 15 | | n.a. |
| T 3 | 9 7 | 10 4 | 3 52 | 8 32 | 1 7 | 4 8 | 8 30 | 24 18 | 0 36 | 20 22 | 0 46 | 20 41 | 1 0 | 16 5 | 0 18 | 20 56 | 1 17 | 12 12 | 7 50 | 21 42 | 21 42 | 3 18 | | n.a. |
| F 4 | 8 44 | 14 43 | 2 56 | 7 47 | 1 2 | 4 0 | 8 33 | 24 19 | 0 37 | 20 19 | 0 46 | 20 42 | 1 0 | 16 5 | 0 18 | 20 56 | 1 17 | 12 11 | 7 50 | 21 41 | 21 42 | 3 20 | | n.a. |
| S 5 | 8 22 | 18 22 | 1 50 | 7 2 | 0 56 | 3 51 | 8 36 | 24 20 | 0 38 | 20 16 | 0 46 | 20 42 | 1 0 | 16 4 | 0 18 | 20 56 | 1 17 | 12 11 | 7 50 | 21 40 | 21 41 | 3 23 | | n.a. |
| S 6 | 7 59 | 20 51 | 0 39 | 6 17 | 0 50 | 3 41 | 8 38 | 24 21 | 0 39 | 20 14 | 0 46 | 20 43 | 1 0 | 16 4 | 0 18 | 20 56 | 1 17 | 12 11 | 7 50 | 21 40 | 21 41 | 3 25 | | n.a. |
| M 7 | 7 37 | 22 3 | 0s31 | 5 32 | 0 44 | 3 29 | 8 39 | 24 22 | 0 40 | 20 11 | 0 46 | 20 43 | 1 0 | 16 4 | 0 18 | 20 56 | 1 17 | 12 11 | 7 50 | 21 40 | 21 40 | 3 27 | | n.a. |
| T 8 | 7 14 | 21 59 | 1 39 | 4 47 | 0 38 | 3 16 | 8 39 | 24 22 | 0 41 | 20 8 | 0 46 | 20 44 | 1 0 | 16 4 | 0 18 | 20 56 | 1 17 | 12 11 | 7 51 | 21 40 | 21 39 | 3 30 | | n.a. |
| W 9 | 6 51 | 20 47 | 2 39 | 4 2 | 0 31 | 3 1 | 8 38 | 24 23 | 0 42 | 20 6 | 0 46 | 20 44 | 0 59 | 16 4 | 0 18 | 20 56 | 1 17 | 12 11 | 7 51 | 21 40 | 21 39 | 3 32 | | n.a. |
| T 10 | 6 28 | 18 34 | 3 31 | 3 17 | 0 25 | 2 46 | 8 36 | 24 23 | 0 43 | 20 3 | 0 47 | 20 45 | 0 59 | 16 3 | 0 18 | 20 56 | 1 17 | 12 10 | 7 51 | 21 39 | 21 38 | 3 35 | | n.a. |
| F 11 | 6 5 | 15 34 | 4 12 | 2 32 | 0 18 | 2 30 | 8 34 | 24 23 | 0 44 | 20 0 | 0 47 | 20 46 | 0 59 | 16 3 | 0 18 | 20 56 | 1 17 | 12 10 | 7 51 | 21 37 | 21 38 | 3 37 | | n.a. |
| S 12 | 5 42 | 11 55 | 4 41 | 1 47 | 0 11 | 2 12 | 8 30 | 24 24 | 0 45 | 19 58 | 0 47 | 20 46 | 0 59 | 16 3 | 0 18 | 20 56 | 1 17 | 12 10 | 7 51 | 21 36 | 21 37 | 3 39 | | n.a. |
| S 13 | 5 18 | 7 51 | 4 57 | 1 2 | 0 4 | 1 54 | 8 26 | 24 23 | 0 47 | 19 55 | 0 47 | 20 47 | 0 59 | 16 2 | 0 18 | 20 56 | 1 17 | 12 10 | 7 51 | 21 33 | 21 37 | 3 42 | | n.a. |
| M14 | 4 55 | 3 30 | 4 59 | 0 18 | 0s 2 | 1 35 | 8 20 | 24 23 | 0 48 | 19 53 | 0 47 | 20 48 | 0 59 | 16 2 | 0 18 | 20 56 | 1 17 | 12 10 | 7 51 | 21 31 | 21 36 | 3 44 | | n.a. |
| T 15 | 4 32 | 0s56 | 4 49 | 0s26 | 0 9 | 1 15 | 8 14 | 24 23 | 0 49 | 19 50 | 0 47 | 20 48 | 0 58 | 16 2 | 0 18 | 20 56 | 1 17 | 12 10 | 7 51 | 21 28 | 21 36 | 3 46 | | n.a. |
| W16 | 4 8 | 5 20 | 4 26 | 1 10 | 0 16 | 0 55 | 8 7 | 24 23 | 0 50 | 19 47 | 0 48 | 20 49 | 0 58 | 16 1 | 0 18 | 20 56 | 1 17 | 12 9 | 7 52 | 21 26 | 21 35 | 3 49 | | n.a. |
| T 17 | 3 44 | 9 32 | 3 52 | 1 54 | 0 23 | 0 34 | 7 58 | 24 22 | 0 51 | 19 45 | 0 48 | 20 50 | 0 58 | 16 1 | 0 18 | 20 56 | 1 17 | 12 9 | 7 52 | 21 24 | 21 34 | 3 51 | | n.a. |
| F 18 | 3 20 | 13 22 | 3 7 | 2 37 | 0 30 | 0 14 | 7 50 | 24 22 | 0 52 | 19 42 | 0 48 | 20 50 | 0 58 | 16 1 | 0 18 | 20 56 | 1 17 | 12 9 | 7 52 | 21 22 | 21 34 | 3 54 | | n.a. |
| S 19 | 2 57 | 16 41 | 2 14 | 3 20 | 0 37 | 0n 7 | 7 40 | 24 21 | 0 53 | 19 40 | 0 48 | 20 51 | 0 58 | 16 0 | 0 18 | 20 56 | 1 17 | 12 9 | 7 52 | 21 21 | 21 33 | 3 56 | | n.a. |
| S 20 | 2 33 | 19 20 | 1 14 | 4 3 | 0 44 | 0 28 | 7 30 | 24 20 | 0 55 | 19 37 | 0 48 | 20 52 | 0 58 | 16 0 | 0 18 | 20 56 | 1 17 | 12 9 | 7 52 | 21 21 | 21 33 | 3 58 | | n.a. |
| M21 | 2 9 | 21 9 | 0 10 | 4 45 | 0 51 | 0 49 | 7 19 | 24 19 | 0 56 | 19 34 | 0 48 | 20 52 | 0 57 | 16 0 | 0 18 | 20 56 | 1 18 | 12 8 | 7 52 | 21 21 | 21 32 | 4 1 | | n.a. |
| T 22 | 1 45 | 21 58 | 0n56 | 5 27 | 0 57 | 1 10 | 7 7 | 24 18 | 0 57 | 19 32 | 0 49 | 20 53 | 0 57 | 15 59 | 0 18 | 20 56 | 1 18 | 12 8 | 7 52 | 21 21 | 21 32 | 4 3 | | n.a. |
| W23 | 1 21 | 21 40 | 2 1 | 6 8 | 1 4 | 1 31 | 6 55 | 24 17 | 0 58 | 19 29 | 0 49 | 20 54 | 0 57 | 15 59 | 0 18 | 20 56 | 1 18 | 12 8 | 7 52 | 21 21 | 21 31 | 4 6 | | n.a. |
| T 24 | 0 57 | 20 11 | 3 2 | 6 49 | 1 11 | 1 51 | 6 43 | 24 16 | 0 59 | 19 27 | 0 49 | 20 55 | 0 57 | 15 58 | 0 18 | 20 56 | 1 18 | 12 8 | 7 52 | 21 21 | 21 31 | 4 8 | | n.a. |
| F 25 | 0 33 | 17 30 | 3 54 | 7 30 | 1 17 | 2 10 | 6 30 | 24 14 | 1 1 | 19 24 | 0 49 | 20 55 | 0 57 | 15 58 | 0 18 | 20 56 | 1 18 | 12 8 | 7 53 | 21 20 | 21 30 | 4 10 | | n.a. |
| S 26 | 0 9 | 13 43 | 4 35 | 8 9 | 1 24 | 2 29 | 6 17 | 24 13 | 1 2 | 19 22 | 0 49 | 20 56 | 0 57 | 15 57 | 0 18 | 20 56 | 1 18 | 12 7 | 7 53 | 21 19 | 21 29 | 4 13 | | n.a. |
| S 27 | 0s15 | 9 0 | 4 58 | 8 49 | 1 30 | 2 48 | 6 4 | 24 11 | 1 3 | 19 19 | 0 50 | 20 57 | 0 57 | 15 57 | 0 18 | 20 56 | 1 18 | 12 7 | 7 53 | 21 18 | 21 29 | 4 15 | | n.a. |
| M28 | 0 39 | 3 37 | 5 3 | 9 27 | 1 37 | 3 6 | 5 50 | 24 10 | 1 4 | 19 17 | 0 50 | 20 58 | 0 56 | 15 56 | 0 18 | 20 55 | 1 18 | 12 7 | 7 53 | 21 16 | 21 28 | 4 17 | | n.a. |
| T 29 | 1 4 | 2n 3 | 4 46 | 10 5 | 1 43 | 3 23 | 5 37 | 24 8 | 1 6 | 19 14 | 0 50 | 20 59 | 0 56 | 15 56 | 0 18 | 20 55 | 1 18 | 12 7 | 7 53 | 21 14 | 21 28 | 4 20 | | n.a. |
| W30 | 1s28 | 7n38 | 4n 8 | 10s43 | 1s49 | 3n39 | 5s23 | 24n 6 | 1n 7 | 19n12 | 0n50 | 20s59 | 0n56 | 15n55 | 0s18 | 20n55 | 1s18 | 12n 6 | 7s53 | 21s13 | 21s27 | 4s22 | | n.a. |

Julian Day Number = 1694637.5, Delta T = 03h08m41s
Ecliptic obliquity = 23°42'11, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°04'36, Lahiri = - 4°57'36 Julian Calendar 1 Sept. 74 BCE == Greg. Calendar 30 Aug. 074 BCE

The year -73 astronomical counting style corresponds to year 074 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 74 BCE
# geocentric

## OCTOBER 74 BCE (-73) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 25 39 | 4♎38'18 | 24♈50 | 24♎22 | 7°R58 | 14♋11 | 8♌27 | 8♐15 | 13°R56 | 10°R 3 | 27°R21 | 4°R 2 | 5♐25 | 0♎20 | n.a. | T 1 |
| F 2 | 0 29 36 | 5°38'24 | 9♉45 | 25°45 | 7♍55 | 14°41 | 8°36 | 8°19 | 13♉54 | 10♊ 2 | 27♉21 | 3♐57 | 5°22 | 0°26 | n.a. | F 2 |
| S 3 | 0 33 32 | 6°38'33 | 24°17 | 27° 6 | 7°D53 | 15°11 | 8°46 | 8°24 | 13°52 | 10° 2 | 27°20 | 3°55 | 5°19 | 0°33 | n.a. | S 3 |
| S 4 | 0 37 29 | 7°38'44 | 8♊19 | 28°26 | 7°54 | 15°40 | 8°55 | 8°28 | 13°50 | 10° 1 | 27°19 | 3°D54 | 5°16 | 0°40 | n.a. | S 4 |
| M 5 | 0 41 25 | 8°38'57 | 21°54 | 29°46 | 7°57 | 16° 9 | 9° 5 | 8°33 | 13°48 | 10° 1 | 27°19 | 3°55 | 5°13 | 0°47 | n.a. | M 5 |
| T 6 | 0 45 22 | 9°39'12 | 5♋ 2 | 1♏ 4 | 8° 3 | 16°38 | 9°14 | 8°37 | 13°46 | 10° 0 | 27°18 | 3°R56 | 5°10 | 0°53 | n.a. | T 6 |
| W 7 | 0 49 18 | 10°39'29 | 17°48 | 2°20 | 8°11 | 17° 7 | 9°23 | 8°42 | 13°44 | 9°59 | 27°17 | 3°56 | 5° 6 | 1° 0 | n.a. | W 7 |
| T 8 | 0 53 15 | 11°39'48 | 0♌15 | 3°36 | 8°21 | 17°35 | 9°32 | 8°47 | 13°42 | 9°59 | 27°16 | 3°54 | 5° 3 | 1° 7 | n.a. | T 8 |
| F 9 | 0 57 12 | 12°40'10 | 12°27 | 4°49 | 8°34 | 18° 4 | 9°41 | 8°52 | 13°40 | 9°58 | 27°16 | 3°50 | 5° 0 | 1°13 | n.a. | F 9 |
| S 10 | 1 1 8 | 13°40'33 | 24°30 | 6° 1 | 8°49 | 18°32 | 9°50 | 8°57 | 13°38 | 9°57 | 27°15 | 3°43 | 4°57 | 1°20 | n.a. | S 10 |
| S 11 | 1 5 5 | 14°40'59 | 6♍27 | 7°11 | 9° 5 | 18°59 | 9°59 | 9° 2 | 13°36 | 9°56 | 27°14 | 3°35 | 4°54 | 1°27 | n.a. | S 11 |
| M12 | 1 9 1 | 15°41'26 | 18°19 | 8°19 | 9°24 | 19°27 | 10° 7 | 9° 7 | 13°34 | 9°56 | 27°13 | 3°25 | 4°50 | 1°34 | n.a. | M12 |
| T 13 | 1 12 58 | 16°41'55 | 0♎10 | 9°24 | 9°45 | 19°54 | 10°16 | 9°12 | 13°32 | 9°55 | 27°12 | 3°16 | 4°47 | 1°40 | n.a. | T 13 |
| W14 | 1 16 54 | 17°42'26 | 12° 2 | 10°26 | 10° 7 | 20°22 | 10°24 | 9°17 | 13°30 | 9°54 | 27°12 | 3° 7 | 4°44 | 1°47 | n.a. | W14 |
| T 15 | 1 20 51 | 18°42'59 | 23°55 | 11°25 | 10°32 | 20°48 | 10°32 | 9°22 | 13°27 | 9°53 | 27°11 | 2°59 | 4°41 | 1°54 | n.a. | T 15 |
| F 16 | 1 24 47 | 19°43'33 | 5♏52 | 12°21 | 10°58 | 21°15 | 10°40 | 9°28 | 13°25 | 9°52 | 27°10 | 2°53 | 4°38 | 2° 0 | n.a. | F 16 |
| S 17 | 1 28 44 | 20°44'09 | 17°55 | 13°12 | 11°26 | 21°41 | 10°48 | 9°33 | 13°23 | 9°51 | 27° 9 | 2°50 | 4°35 | 2° 7 | n.a. | S 17 |
| S 18 | 1 32 40 | 21°44'46 | 0♐ 4 | 13°59 | 11°55 | 22° 7 | 10°56 | 9°39 | 13°21 | 9°50 | 27° 8 | 2°D49 | 4°31 | 2°14 | n.a. | S 18 |
| M19 | 1 36 37 | 22°45'25 | 12°24 | 14°41 | 12°26 | 22°33 | 11° 4 | 9°44 | 13°18 | 9°49 | 27° 7 | 2°49 | 4°28 | 2°21 | n.a. | M19 |
| T 20 | 1 40 34 | 23°46'05 | 24°57 | 15°17 | 12°59 | 22°59 | 11°11 | 9°50 | 13°16 | 9°48 | 27° 6 | 2°50 | 4°25 | 2°27 | n.a. | T 20 |
| W21 | 1 44 30 | 24°46'47 | 7♑46 | 15°47 | 13°33 | 23°24 | 11°19 | 9°55 | 13°14 | 9°47 | 27° 5 | 2°52 | 4°22 | 2°34 | n.a. | W21 |
| T 22 | 1 48 27 | 25°47'30 | 20°55 | 16° 9 | 14° 8 | 23°49 | 11°26 | 10° 1 | 13°11 | 9°46 | 27° 4 | 2°R53 | 4°19 | 2°41 | n.a. | T 22 |
| F 23 | 1 52 23 | 26°48'14 | 4♒28 | 16°24 | 14°45 | 24°13 | 11°33 | 10° 7 | 13° 9 | 9°45 | 27° 3 | 2°53 | 4°16 | 2°47 | n.a. | F 23 |
| S 24 | 1 56 20 | 27°48'59 | 18°25 | 16°R30 | 15°23 | 24°38 | 11°40 | 10°12 | 13° 6 | 9°44 | 27° 2 | 2°51 | 4°12 | 2°54 | n.a. | S 24 |
| S 25 | 2 0 16 | 28°49'45 | 2♓46 | 16°26 | 16° 2 | 25° 2 | 11°47 | 10°18 | 13° 4 | 9°42 | 27° 1 | 2°48 | 4° 9 | 3° 1 | n.a. | S 25 |
| M26 | 2 4 13 | 29°50'32 | 17°30 | 16°12 | 16°43 | 25°25 | 11°54 | 10°24 | 13° 2 | 9°41 | 27° 0 | 2°44 | 4° 6 | 3° 7 | n.a. | M26 |
| T 27 | 2 8 9 | 0♏51'21 | 2♈30 | 15°48 | 17°25 | 25°49 | 12° 0 | 10°30 | 12°59 | 9°40 | 26°59 | 2°39 | 4° 3 | 3°14 | n.a. | T 27 |
| W28 | 2 12 6 | 1°52'10 | 17°39 | 15°13 | 18° 8 | 26°12 | 12° 7 | 10°36 | 12°57 | 9°39 | 26°58 | 2°34 | 4° 0 | 3°21 | n.a. | W28 |
| T 29 | 2 16 3 | 2°53'01 | 2♉45 | 14°27 | 18°52 | 26°34 | 12°13 | 10°42 | 12°54 | 9°37 | 26°57 | 2°31 | 3°56 | 3°28 | n.a. | T 29 |
| F 30 | 2 19 59 | 3°53'53 | 17°41 | 13°31 | 19°37 | 26°57 | 12°19 | 10°48 | 12°52 | 9°36 | 26°56 | 2°28 | 3°53 | 3°34 | n.a. | F 30 |
| S 31 | 2 23 56 | 4♏54'46 | 2♊17 | 12♏26 | 20♍23 | 27♋19 | 12♌25 | 10♐54 | 12♉49 | 9♊35 | 26♉55 | 2°D28 | 3♐50 | 3♎41 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 1s52 | 12n42 | 3n13 | 11s19 | 1s55 | 3n54 | 5s 9 | 24n 4 | 1n 8 | 19n10 | 0n50 | 21s 0 | 0n56 | 15n55 | 0s18 | 20n55 | 1s18 | 12n 6 | 7s53 | 21s11 | 21s27 | 4s24 | | n.a. |
| F 2 | 2 16 | 16 53 | 2 5 | 11 55 | 2 0 | 4 8 | 4 55 | 24 2 | 1 10 | 19 7 | 0 51 | 21 1 | 0 56 | 15 54 | 0 18 | 20 55 | 1 18 | 12 6 | 7 53 | 21 10 | 21 26 | 4 27 | | n.a. |
| S 3 | 2 40 | 19 53 | 0 51 | 12 30 | 2 6 | 4 22 | 4 41 | 24 0 | 1 11 | 19 5 | 0 51 | 21 2 | 0 56 | 15 54 | 0 18 | 20 55 | 1 18 | 12 6 | 7 53 | 21 10 | 21 25 | 4 29 | | n.a. |
| S 4 | 3 4 | 21 33 | 0s24 | 13 4 | 2 11 | 4 34 | 4 27 | 23 58 | 1 12 | 19 3 | 0 51 | 21 3 | 0 55 | 15 53 | 0 18 | 20 55 | 1 18 | 12 5 | 7 53 | 21 10 | 21 25 | 4 31 | | n.a. |
| M 5 | 3 28 | 21 52 | 1 35 | 13 37 | 2 16 | 4 46 | 4 13 | 23 56 | 1 14 | 19 0 | 0 51 | 21 4 | 0 55 | 15 53 | 0 18 | 20 55 | 1 18 | 12 5 | 7 54 | 21 10 | 21 24 | 4 34 | | n.a. |
| T 6 | 3 52 | 20 57 | 2 39 | 14 9 | 2 20 | 4 56 | 4 0 | 23 54 | 1 15 | 18 58 | 0 51 | 21 5 | 0 55 | 15 52 | 0 18 | 20 55 | 1 18 | 12 5 | 7 54 | 21 10 | 21 24 | 4 36 | | n.a. |
| W 7 | 4 16 | 18 59 | 3 33 | 14 41 | 2 25 | 5 6 | 3 46 | 23 51 | 1 16 | 18 56 | 0 52 | 21 5 | 0 55 | 15 51 | 0 18 | 20 54 | 1 18 | 12 5 | 7 54 | 21 10 | 21 23 | 4 39 | | n.a. |
| T 8 | 4 40 | 16 9 | 4 16 | 15 11 | 2 29 | 5 15 | 3 33 | 23 49 | 1 18 | 18 53 | 0 52 | 21 6 | 0 55 | 15 51 | 0 18 | 20 54 | 1 18 | 12 4 | 7 54 | 21 10 | 21 23 | 4 41 | | n.a. |
| F 9 | 5 3 | 12 41 | 4 46 | 15 39 | 2 32 | 5 22 | 3 19 | 23 46 | 1 19 | 18 51 | 0 52 | 21 7 | 0 55 | 15 50 | 0 18 | 20 54 | 1 18 | 12 4 | 7 54 | 21 9 | 21 22 | 4 43 | | n.a. |
| S 10 | 5 27 | 8 44 | 5 3 | 16 7 | 2 35 | 5 29 | 3 6 | 23 44 | 1 20 | 18 49 | 0 52 | 21 8 | 0 55 | 15 49 | 0 18 | 20 54 | 1 18 | 12 4 | 7 54 | 21 8 | 21 21 | 4 46 | | n.a. |
| S 11 | 5 51 | 4 30 | 5 6 | 16 33 | 2 38 | 5 34 | 2 54 | 23 42 | 1 22 | 18 47 | 0 52 | 21 9 | 0 54 | 15 49 | 0 18 | 20 54 | 1 18 | 12 4 | 7 54 | 21 6 | 21 21 | 4 48 | | n.a. |
| M12 | 6 14 | 0 8 | 4 57 | 16 57 | 2 40 | 5 39 | 2 41 | 23 39 | 1 23 | 18 45 | 0 53 | 21 10 | 0 54 | 15 48 | 0 18 | 20 54 | 1 18 | 12 3 | 7 54 | 21 4 | 21 20 | 4 50 | | n.a. |
| T 13 | 6 38 | 4s15 | 4 34 | 17 20 | 2 42 | 5 43 | 2 29 | 23 36 | 1 25 | 18 43 | 0 53 | 21 11 | 0 54 | 15 48 | 0 18 | 20 54 | 1 18 | 12 3 | 7 54 | 21 2 | 21 20 | 4 53 | | n.a. |
| W14 | 7 1 | 8 28 | 4 0 | 17 42 | 2 43 | 5 45 | 2 16 | 23 34 | 1 26 | 18 41 | 0 53 | 21 12 | 0 54 | 15 47 | 0 18 | 20 53 | 1 18 | 12 3 | 7 54 | 21 1 | 21 19 | 4 55 | | n.a. |
| T 15 | 7 25 | 12 23 | 3 15 | 18 1 | 2 44 | 5 47 | 2 4 | 23 31 | 1 28 | 18 39 | 0 53 | 21 13 | 0 54 | 15 46 | 0 18 | 20 53 | 1 18 | 12 3 | 7 54 | 20 59 | 21 18 | 4 57 | | n.a. |
| F 16 | 7 48 | 15 50 | 2 21 | 18 18 | 2 44 | 5 48 | 1 53 | 23 28 | 1 29 | 18 37 | 0 54 | 21 14 | 0 54 | 15 46 | 0 18 | 20 53 | 1 18 | 12 2 | 7 54 | 20 58 | 21 18 | 5 0 | | n.a. |
| S 17 | 8 11 | 18 38 | 1 20 | 18 33 | 2 42 | 5 48 | 1 41 | 23 26 | 1 31 | 18 35 | 0 54 | 21 15 | 0 54 | 15 45 | 0 18 | 20 53 | 1 18 | 12 2 | 7 54 | 20 57 | 21 17 | 5 2 | | n.a. |
| S 18 | 8 34 | 20 38 | 0 15 | 18 46 | 2 41 | 5 47 | 1 30 | 23 23 | 1 32 | 18 33 | 0 54 | 21 16 | 0 53 | 15 44 | 0 18 | 20 53 | 1 18 | 12 2 | 7 55 | 20 57 | 21 17 | 5 4 | | n.a. |
| M19 | 8 57 | 21 40 | 0n52 | 18 56 | 2 38 | 5 45 | 1 19 | 23 20 | 1 34 | 18 31 | 0 54 | 21 17 | 0 53 | 15 43 | 0 18 | 20 53 | 1 18 | 12 2 | 7 55 | 20 57 | 21 16 | 5 6 | | n.a. |
| T 20 | 9 19 | 21 39 | 1 58 | 19 3 | 2 34 | 5 42 | 1 9 | 23 17 | 1 35 | 18 29 | 0 54 | 21 17 | 0 53 | 15 43 | 0 18 | 20 52 | 1 18 | 12 1 | 7 55 | 20 57 | 21 16 | 5 9 | | n.a. |
| W21 | 9 42 | 20 30 | 2 59 | 19 7 | 2 29 | 5 39 | 0 58 | 23 15 | 1 37 | 18 27 | 0 55 | 21 18 | 0 53 | 15 42 | 0 18 | 20 52 | 1 18 | 12 1 | 7 55 | 20 58 | 21 15 | 5 11 | | n.a. |
| T 22 | 10 4 | 18 14 | 3 52 | 19 7 | 2 23 | 5 34 | 0 48 | 23 12 | 1 39 | 18 25 | 0 55 | 21 19 | 0 53 | 15 41 | 0 18 | 20 52 | 1 18 | 12 1 | 7 55 | 20 58 | 21 14 | 5 13 | | n.a. |
| F 23 | 10 27 | 14 55 | 4 35 | 19 4 | 2 15 | 5 29 | 0 38 | 23 9 | 1 40 | 18 23 | 0 55 | 21 20 | 0 53 | 15 41 | 0 18 | 20 52 | 1 18 | 12 1 | 7 55 | 20 58 | 21 14 | 5 16 | | n.a. |
| S 24 | 10 49 | 10 41 | 5 2 | 18 57 | 2 6 | 5 23 | 0 29 | 23 6 | 1 42 | 18 22 | 0 55 | 21 21 | 0 53 | 15 40 | 0 18 | 20 52 | 1 18 | 12 0 | 7 55 | 20 58 | 21 13 | 5 18 | | n.a. |
| S 25 | 11 11 | 5 45 | 5 12 | 18 46 | 1 55 | 5 16 | 0 19 | 23 3 | 1 43 | 18 20 | 0 56 | 21 22 | 0 53 | 15 39 | 0 18 | 20 51 | 1 18 | 12 0 | 7 55 | 20 57 | 21 13 | 5 20 | | n.a. |
| M26 | 11 32 | 0 22 | 5 2 | 18 31 | 1 43 | 5 8 | 0 10 | 23 1 | 1 45 | 18 18 | 0 56 | 21 23 | 0 52 | 15 38 | 0 18 | 20 51 | 1 18 | 12 0 | 7 55 | 20 56 | 21 12 | 5 23 | | n.a. |
| T 27 | 11 54 | 5n 9 | 4 31 | 18 10 | 1 29 | 5 0 | 0 2 | 22 58 | 1 47 | 18 17 | 0 56 | 21 24 | 0 52 | 15 38 | 0 18 | 20 51 | 1 19 | 11 59 | 7 55 | 20 55 | 21 11 | 5 25 | | n.a. |
| W28 | 12 15 | 10 24 | 3 41 | 17 45 | 1 14 | 4 51 | 0n 7 | 22 55 | 1 48 | 18 15 | 0 56 | 21 25 | 0 52 | 15 37 | 0 18 | 20 51 | 1 19 | 11 59 | 7 55 | 20 54 | 21 11 | 5 27 | | n.a. |
| T 29 | 12 36 | 15 0 | 2 36 | 17 15 | 0 57 | 4 41 | 0 15 | 22 52 | 1 50 | 18 14 | 0 57 | 21 26 | 0 52 | 15 36 | 0 18 | 20 51 | 1 19 | 11 59 | 7 55 | 20 54 | 21 10 | 5 30 | | n.a. |
| F 30 | 12 57 | 18 34 | 1 20 | 16 41 | 0 38 | 4 31 | 0 23 | 22 50 | 1 52 | 18 12 | 0 57 | 21 27 | 0 52 | 15 35 | 0 18 | 20 50 | 1 19 | 11 59 | 7 55 | 20 53 | 21 10 | 5 32 | | n.a. |
| S 31 | 13s18 | 20n52 | 0n 1 | 16s 2 | 0s19 | 4n20 | 0n31 | 22n47 | 1n54 | 18n11 | 0n57 | 21s28 | 0n52 | 15n35 | 0s18 | 20n50 | 1s19 | 11n58 | 7s55 | 20s53 | 21s 9 | 5s34 | | n.a. |

Julian Day Number = 1694667.5, Delta T = 03h08m41s
Ecliptic obliquity = 23°42'11, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°04'32, Lahiri = - 4°57'32 Julian Calendar 1 Oct. 74 BCE == Greg. Calendar 29 Sept. 074 BCE

The year -73 astronomical counting style corresponds to year 074 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 74 BCE
# geocentric

## NOVEMBER 74 BCE (-73) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 27 52 | 5♏55'41 | 16♊29 | 11°R12 | 21♍10 | 27♋40 | 12♌31 | 11♐ 0 | 12°R47 | 9°R33 | 26°R54 | 2♐28 | 3♐47 | 3♎48 | n.a. | S 1 |
| M 2 | 2 31 49 | 6°56'38 | 0♋13 | 9♏54 | 21°58 | 28° 2 | 12°36 | 11° 7 | 12♉44 | 9♊32 | 26♉53 | 2°30 | 3°44 | 3°54 | n.a. | M 2 |
| T 3 | 2 35 45 | 7°57'35 | 13°30 | 8°31 | 22°47 | 28°23 | 12°42 | 11°13 | 12°42 | 9°31 | 26°51 | 2°31 | 3°41 | 4° 1 | n.a. | T 3 |
| W 4 | 2 39 42 | 8°58'34 | 26°22 | 7° 9 | 23°36 | 28°43 | 12°47 | 11°19 | 12°39 | 9°29 | 26°50 | 2°33 | 3°37 | 4° 8 | n.a. | W 4 |
| T 5 | 2 43 39 | 9°59'35 | 8♌54 | 5°49 | 24°27 | 29° 3 | 12°52 | 11°26 | 12°36 | 9°28 | 26°49 | 2°R33 | 3°34 | 4°15 | n.a. | T 5 |
| F 6 | 2 47 35 | 11° 0'36 | 21° 8 | 4°33 | 25°18 | 29°23 | 12°57 | 11°32 | 12°34 | 9°26 | 26°48 | 2°33 | 3°31 | 4°21 | n.a. | F 6 |
| S 7 | 2 51 32 | 12° 1'39 | 3♍10 | 3°25 | 26°10 | 29°42 | 13° 2 | 11°38 | 12°31 | 9°25 | 26°47 | 2°31 | 3°28 | 4°28 | n.a. | S 7 |
| S 8 | 2 55 28 | 13° 2'43 | 15° 5 | 2°27 | 27° 3 | 0♌ 1 | 13° 7 | 11°45 | 12°29 | 9°23 | 26°46 | 2°29 | 3°25 | 4°35 | n.a. | S 8 |
| M 9 | 2 59 25 | 14° 3'48 | 26°55 | 1°38 | 27°57 | 0°20 | 13°11 | 11°51 | 12°26 | 9°22 | 26°45 | 2°26 | 3°22 | 4°41 | n.a. | M 9 |
| T 10 | 3 3 21 | 15° 4'54 | 8♎46 | 1° 1 | 28°51 | 0°38 | 13°16 | 11°58 | 12°24 | 9°20 | 26°43 | 2°23 | 3°18 | 4°48 | n.a. | T 10 |
| W11 | 3 7 18 | 16° 6'02 | 20°39 | 0°35 | 29°46 | 0°56 | 13°20 | 12° 5 | 12°21 | 9°19 | 26°42 | 2°20 | 3°15 | 4°55 | n.a. | W11 |
| T 12 | 3 11 14 | 17° 7'10 | 2♏38 | 0°20 | 0♎42 | 1°13 | 13°24 | 12°11 | 12°19 | 9°17 | 26°41 | 2°18 | 3°12 | 5° 1 | n.a. | T 12 |
| F 13 | 3 15 11 | 18° 8'19 | 14°44 | 0°D16 | 1°38 | 1°29 | 13°28 | 12°18 | 12°16 | 9°16 | 26°40 | 2°16 | 3° 9 | 5° 8 | n.a. | F 13 |
| S 14 | 3 19 7 | 19° 9'29 | 26°59 | 0°22 | 2°35 | 1°46 | 13°31 | 12°24 | 12°14 | 9°14 | 26°39 | 2°D16 | 3° 6 | 5°15 | n.a. | S 14 |
| S 15 | 3 23 4 | 20°10'39 | 9♐24 | 0°37 | 3°32 | 2° 1 | 13°35 | 12°31 | 12°11 | 9°13 | 26°38 | 2°16 | 3° 2 | 5°22 | n.a. | S 15 |
| M16 | 3 27 1 | 21°11'51 | 22° 1 | 1° 1 | 4°30 | 2°17 | 13°38 | 12°38 | 12° 9 | 9°11 | 26°36 | 2°16 | 2°59 | 5°28 | n.a. | M16 |
| T 17 | 3 30 57 | 22°13'03 | 4♑50 | 1°33 | 5°28 | 2°31 | 13°41 | 12°45 | 12° 6 | 9° 9 | 26°35 | 2°17 | 2°56 | 5°35 | n.a. | T 17 |
| W18 | 3 34 54 | 23°14'15 | 17°52 | 2°12 | 6°27 | 2°46 | 13°44 | 12°51 | 12° 4 | 9° 8 | 26°34 | 2°18 | 2°53 | 5°42 | n.a. | W18 |
| T 19 | 3 38 50 | 24°15'27 | 1♒10 | 2°56 | 7°27 | 2°59 | 13°47 | 12°58 | 12° 1 | 9° 6 | 26°33 | 2°19 | 2°50 | 5°48 | n.a. | T 19 |
| F 20 | 3 42 47 | 25°16'40 | 14°44 | 3°46 | 8°26 | 3°12 | 13°49 | 13° 5 | 11°59 | 9° 5 | 26°32 | 2°20 | 2°47 | 5°55 | n.a. | F 20 |
| S 21 | 3 46 43 | 26°17'52 | 28°34 | 4°41 | 9°27 | 3°25 | 13°51 | 13°12 | 11°56 | 9° 3 | 26°31 | 2°R20 | 2°43 | 6° 2 | n.a. | S 21 |
| S 22 | 3 50 40 | 27°19'05 | 12♓42 | 5°40 | 10°27 | 3°37 | 13°54 | 13°19 | 11°54 | 9° 1 | 26°29 | 2°19 | 2°40 | 6° 8 | n.a. | S 22 |
| M23 | 3 54 37 | 28°20'18 | 27° 4 | 6°43 | 11°29 | 3°48 | 13°55 | 13°26 | 11°51 | 9° 0 | 26°28 | 2°19 | 2°37 | 6°15 | n.a. | M23 |
| T 24 | 3 58 33 | 29°21'31 | 11♈38 | 7°49 | 12°30 | 3°59 | 13°57 | 13°33 | 11°49 | 8°58 | 26°27 | 2°19 | 2°34 | 6°22 | n.a. | T 24 |
| W25 | 4 2 30 | 0♐22'44 | 26°20 | 8°58 | 13°32 | 4°10 | 13°59 | 13°40 | 11°47 | 8°56 | 26°26 | 2°19 | 2°31 | 6°29 | n.a. | W25 |
| T 26 | 4 6 26 | 1°23'58 | 11♉ 3 | 10°10 | 14°34 | 4°19 | 14° 0 | 13°47 | 11°44 | 8°55 | 26°25 | 2°18 | 2°27 | 6°35 | n.a. | T 26 |
| F 27 | 4 10 23 | 2°25'11 | 25°40 | 11°23 | 15°37 | 4°28 | 14° 1 | 13°54 | 11°42 | 8°53 | 26°23 | 2°18 | 2°24 | 6°42 | n.a. | F 27 |
| S 28 | 4 14 19 | 3°26'25 | 10♊ 4 | 12°39 | 16°40 | 4°37 | 14° 2 | 14° 1 | 11°40 | 8°51 | 26°22 | 2°18 | 2°21 | 6°49 | n.a. | S 28 |
| S 29 | 4 18 16 | 4°27'39 | 24°12 | 13°56 | 17°44 | 4°45 | 14° 3 | 14° 8 | 11°37 | 8°50 | 26°21 | 2°18 | 2°18 | 6°55 | n.a. | S 29 |
| M30 | 4 22 12 | 5♐28'53 | 7♋57 | 15♏15 | 18♎47 | 4♌52 | 14♌ 4 | 14♐15 | 11♉35 | 8♊48 | 26♉20 | 2♐18 | 2♐15 | 7♎ 2 | n.a. | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 13s39 | 21n45 | 1s16 | 15s20 | 0n 2 | 4n 8 | 0n39 | 22n44 | 1n55 | 18n 9 | 0n57 | 21s29 | 0n52 | 15n34 | 0s18 | 20n50 | 1s19 | 11n58 | 7s55 | 20s53 | 21s 8 | 5s36 | | n.a. |
| M 2 | 13 59 | 21 15 | 2 27 | 14 35 | 0 22 | 3 56 | 0 46 | 22 42 | 1 57 | 18 8 | 0 58 | 21 30 | 0 52 | 15 33 | 0 18 | 20 50 | 1 19 | 11 58 | 7 55 | 20 53 | 21 8 | 5 39 | | n.a. |
| T 3 | 14 19 | 19 35 | 3 27 | 13 50 | 0 43 | 3 42 | 0 53 | 22 39 | 1 59 | 18 6 | 0 58 | 21 31 | 0 52 | 15 32 | 0 18 | 20 50 | 1 19 | 11 58 | 7 55 | 20 54 | 21 7 | 5 41 | | n.a. |
| W 4 | 14 39 | 16 57 | 4 15 | 13 4 | 1 3 | 3 29 | 1 0 | 22 37 | 2 1 | 18 5 | 0 58 | 21 32 | 0 51 | 15 32 | 0 18 | 20 49 | 1 19 | 11 57 | 7 55 | 20 54 | 21 7 | 5 43 | | n.a. |
| T 5 | 14 58 | 13 35 | 4 49 | 12 20 | 1 21 | 3 15 | 1 6 | 22 34 | 2 3 | 18 4 | 0 58 | 21 33 | 0 51 | 15 31 | 0 18 | 20 49 | 1 19 | 11 57 | 7 55 | 20 54 | 21 6 | 5 46 | | n.a. |
| F 6 | 15 18 | 9 44 | 5 9 | 11 38 | 1 39 | 3 0 | 1 13 | 22 32 | 2 5 | 18 3 | 0 59 | 21 34 | 0 51 | 15 30 | 0 18 | 20 49 | 1 19 | 11 57 | 7 55 | 20 54 | 21 5 | 5 48 | | n.a. |
| S 7 | 15 37 | 5 33 | 5 15 | 11 1 | 1 54 | 2 45 | 1 19 | 22 30 | 2 6 | 18 2 | 0 59 | 21 35 | 0 51 | 15 29 | 0 18 | 20 49 | 1 19 | 11 57 | 7 55 | 20 54 | 21 5 | 5 50 | | n.a. |
| S 8 | 15 56 | 1 13 | 5 8 | 10 28 | 2 7 | 2 29 | 1 25 | 22 27 | 2 8 | 18 1 | 0 59 | 21 36 | 0 51 | 15 28 | 0 18 | 20 48 | 1 19 | 11 56 | 7 55 | 20 53 | 21 4 | 5 52 | | n.a. |
| M 9 | 16 14 | 3s 9 | 4 47 | 10 1 | 2 18 | 2 12 | 1 31 | 22 25 | 2 10 | 18 0 | 0 59 | 21 37 | 0 51 | 15 28 | 0 18 | 20 48 | 1 19 | 11 56 | 7 55 | 20 53 | 21 3 | 5 55 | | n.a. |
| T 10 | 16 32 | 7 24 | 4 14 | 9 39 | 2 28 | 1 56 | 1 36 | 22 23 | 2 12 | 17 59 | 1 0 | 21 38 | 0 51 | 15 27 | 0 18 | 20 48 | 1 19 | 11 56 | 7 55 | 20 52 | 21 3 | 5 57 | | n.a. |
| W11 | 16 50 | 11 23 | 3 30 | 9 23 | 2 34 | 1 38 | 1 41 | 22 21 | 2 14 | 17 58 | 1 0 | 21 39 | 0 51 | 15 26 | 0 18 | 20 48 | 1 19 | 11 56 | 7 55 | 20 51 | 21 2 | 5 59 | | n.a. |
| T 12 | 17 8 | 14 58 | 2 37 | 9 14 | 2 39 | 1 21 | 1 46 | 22 19 | 2 16 | 17 57 | 1 0 | 21 40 | 0 51 | 15 25 | 0 18 | 20 47 | 1 19 | 11 55 | 7 55 | 20 51 | 21 2 | 6 1 | | n.a. |
| F 13 | 17 25 | 17 57 | 1 36 | 9 9 | 2 43 | 1 2 | 1 51 | 22 17 | 2 18 | 17 56 | 1 1 | 21 41 | 0 50 | 15 25 | 0 18 | 20 47 | 1 19 | 11 55 | 7 55 | 20 51 | 21 1 | 6 4 | | n.a. |
| S 14 | 17 42 | 20 10 | 0 29 | 9 10 | 2 44 | 0 44 | 1 56 | 22 16 | 2 20 | 17 55 | 1 1 | 21 42 | 0 50 | 15 24 | 0 18 | 20 47 | 1 19 | 11 55 | 7 55 | 20 51 | 21 0 | 6 6 | | n.a. |
| S 15 | 17 59 | 21 27 | 0n39 | 9 15 | 2 44 | 0 25 | 2 0 | 22 14 | 2 22 | 17 54 | 1 1 | 21 43 | 0 50 | 15 23 | 0 18 | 20 47 | 1 19 | 11 55 | 7 55 | 20 51 | 21 0 | 6 8 | | n.a. |
| M16 | 18 15 | 21 40 | 1 47 | 9 24 | 2 43 | 0 5 | 2 4 | 22 13 | 2 24 | 17 54 | 1 1 | 21 44 | 0 50 | 15 22 | 0 17 | 20 46 | 1 19 | 11 54 | 7 55 | 20 51 | 20 59 | 6 11 | | n.a. |
| T 17 | 18 31 | 20 46 | 2 51 | 9 38 | 2 41 | 0s14 | 2 8 | 22 11 | 2 26 | 17 53 | 1 2 | 21 45 | 0 50 | 15 22 | 0 17 | 20 46 | 1 19 | 11 54 | 7 55 | 20 51 | 20 59 | 6 13 | | n.a. |
| W18 | 18 47 | 18 45 | 3 47 | 9 54 | 2 38 | 0 34 | 2 12 | 22 10 | 2 29 | 17 52 | 1 2 | 21 46 | 0 50 | 15 21 | 0 17 | 20 46 | 1 19 | 11 54 | 7 55 | 20 51 | 20 58 | 6 15 | | n.a. |
| T 19 | 19 3 | 15 42 | 4 32 | 10 13 | 2 34 | 0 55 | 2 16 | 22 9 | 2 31 | 17 52 | 1 2 | 21 47 | 0 50 | 15 20 | 0 17 | 20 46 | 1 19 | 11 54 | 7 55 | 20 51 | 20 57 | 6 17 | | n.a. |
| F 20 | 19 18 | 11 46 | 5 3 | 10 35 | 2 29 | 1 15 | 2 19 | 22 8 | 2 33 | 17 51 | 1 2 | 21 48 | 0 50 | 15 19 | 0 17 | 20 45 | 1 19 | 11 53 | 7 55 | 20 51 | 20 57 | 6 20 | | n.a. |
| S 21 | 19 32 | 7 9 | 5 17 | 10 58 | 2 24 | 1 36 | 2 22 | 22 7 | 2 35 | 17 51 | 1 3 | 21 49 | 0 50 | 15 18 | 0 17 | 20 45 | 1 19 | 11 53 | 7 55 | 20 51 | 20 56 | 6 22 | | n.a. |
| S 22 | 19 47 | 2 4 | 5 12 | 11 23 | 2 18 | 1 58 | 2 25 | 22 6 | 2 37 | 17 51 | 1 3 | 21 50 | 0 50 | 15 18 | 0 17 | 20 45 | 1 19 | 11 53 | 7 55 | 20 51 | 20 55 | 6 24 | | n.a. |
| M23 | 20 0 | 3n13 | 4 48 | 11 50 | 2 12 | 2 19 | 2 28 | 22 6 | 2 39 | 17 50 | 1 3 | 21 51 | 0 50 | 15 17 | 0 17 | 20 45 | 1 19 | 11 53 | 7 55 | 20 51 | 20 55 | 6 26 | | n.a. |
| T 24 | 20 14 | 8 25 | 4 6 | 12 18 | 2 5 | 2 41 | 2 31 | 22 5 | 2 42 | 17 50 | 1 4 | 21 52 | 0 49 | 15 16 | 0 17 | 20 44 | 1 19 | 11 53 | 7 55 | 20 51 | 20 54 | 6 28 | | n.a. |
| W25 | 20 27 | 13 10 | 3 7 | 12 47 | 1 58 | 3 3 | 2 33 | 22 5 | 2 44 | 17 50 | 1 4 | 21 52 | 0 49 | 15 16 | 0 17 | 20 44 | 1 19 | 11 52 | 7 55 | 20 51 | 20 54 | 6 31 | | n.a. |
| T 26 | 20 40 | 17 8 | 1 55 | 13 16 | 1 51 | 3 25 | 2 36 | 22 5 | 2 46 | 17 50 | 1 4 | 21 53 | 0 49 | 15 15 | 0 17 | 20 44 | 1 19 | 11 52 | 7 55 | 20 51 | 20 53 | 6 33 | | n.a. |
| F 27 | 20 52 | 19 59 | 0 37 | 13 46 | 1 44 | 3 47 | 2 38 | 22 5 | 2 49 | 17 50 | 1 4 | 21 54 | 0 49 | 15 14 | 0 17 | 20 44 | 1 19 | 11 52 | 7 54 | 20 51 | 20 52 | 6 35 | | n.a. |
| S 28 | 21 4 | 21 30 | 0s43 | 14 17 | 1 36 | 4 10 | 2 40 | 22 5 | 2 51 | 17 50 | 1 5 | 21 55 | 0 49 | 15 13 | 0 17 | 20 43 | 1 19 | 11 52 | 7 54 | 20 51 | 20 52 | 6 37 | | n.a. |
| S 29 | 21 16 | 21 36 | 1 59 | 14 47 | 1 29 | 4 33 | 2 42 | 22 5 | 2 53 | 17 50 | 1 5 | 21 56 | 0 49 | 15 13 | 0 17 | 20 43 | 1 19 | 11 52 | 7 54 | 20 51 | 20 51 | 6 40 | | n.a. |
| M30 | 21s27 | 20n23 | 3s 5 | 15s18 | 1n21 | 4s56 | 2n43 | 22n 6 | 2n56 | 17n50 | 1n 5 | 21s57 | 0n49 | 15n12 | 0s17 | 20n43 | 1s19 | 11n51 | 7s54 | 20s51 | 20s50 | 6s42 | | n.a. |

Julian Day Number = 1694698.5, Delta T = 03h08m40s
Ecliptic obliquity = 23°42'10, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°04'28, Lahiri = - 4°57'28 Julian Calendar 1 Nov. 74 BCE == Greg. Calendar 30 Oct. 074 BCE


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# ASTRODIENST EPHEMERIS for the year 74 BCE
# geocentric

## DECEMBER 74 BCE (-73) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 4 26 9 | 6♐30'07 | 21♋19 | 16♏35 | 19♎51 | 4♌58 | 14♌ 4 | 14♐22 | 11°R33 | 8°R46 | 26°R19 | 2°R18 | 2♐12 | 7♎ 9 | n.a. | T 1 |
| W 2 | 4 30 6 | 7°31'22 | 4♌17 | 17°56 | 20°56 | 5° 4 | 14° 4 | 14°29 | 11♉31 | 8♊44 | 26♉18 | 2♐17 | 2° 8 | 7°15 | n.a. | W 2 |
| T 3 | 4 34 2 | 8°32'36 | 16°54 | 19°19 | 22° 1 | 5° 9 | 14°R 5 | 14°36 | 11°28 | 8°43 | 26°16 | 2°16 | 2° 5 | 7°22 | n.a. | T 3 |
| F 4 | 4 37 59 | 9°33'51 | 29°13 | 20°42 | 23° 6 | 5°14 | 14° 4 | 14°43 | 11°26 | 8°41 | 26°15 | 2°16 | 2° 2 | 7°29 | n.a. | F 4 |
| S 5 | 4 41 55 | 10°35'06 | 11♍18 | 22° 7 | 24°11 | 5°18 | 14° 4 | 14°50 | 11°24 | 8°39 | 26°14 | 2°D16 | 1°59 | 7°36 | n.a. | S 5 |
| S 6 | 4 45 52 | 11°36'22 | 23°13 | 23°32 | 25°16 | 5°21 | 14° 3 | 14°57 | 11°22 | 8°38 | 26°13 | 2°16 | 1°56 | 7°42 | n.a. | S 6 |
| M 7 | 4 49 48 | 12°37'37 | 5♎ 4 | 24°58 | 26°22 | 5°23 | 14° 3 | 15° 4 | 11°20 | 8°36 | 26°12 | 2°17 | 1°53 | 7°49 | n.a. | M 7 |
| T 8 | 4 53 45 | 13°38'52 | 16°55 | 26°25 | 27°28 | 5°25 | 14° 2 | 15°11 | 11°18 | 8°34 | 26°11 | 2°18 | 1°49 | 7°56 | n.a. | T 8 |
| W 9 | 4 57 41 | 14°40'08 | 28°50 | 27°52 | 28°34 | 5°25 | 14° 1 | 15°18 | 11°16 | 8°33 | 26°10 | 2°19 | 1°46 | 8° 2 | n.a. | W 9 |
| T 10 | 5 1 38 | 15°41'23 | 10♏54 | 29°20 | 29°41 | 5°R25 | 13°59 | 15°25 | 11°14 | 8°31 | 26° 9 | 2°20 | 1°43 | 8° 9 | n.a. | T 10 |
| F 11 | 5 5 35 | 16°42'38 | 23° 8 | 0♐48 | 0♏48 | 5°25 | 13°58 | 15°32 | 11°12 | 8°29 | 26° 7 | 2°21 | 1°40 | 8°16 | n.a. | F 11 |
| S 12 | 5 9 31 | 17°43'53 | 5♐37 | 2°17 | 1°55 | 5°23 | 13°56 | 15°39 | 11°10 | 8°27 | 26° 6 | 2°R21 | 1°37 | 8°22 | n.a. | S 12 |
| S 13 | 5 13 28 | 18°45'08 | 18°20 | 3°47 | 3° 2 | 5°21 | 13°54 | 15°46 | 11° 8 | 8°26 | 26° 5 | 2°20 | 1°33 | 8°29 | n.a. | S 13 |
| M14 | 5 17 24 | 19°46'22 | 1♑18 | 5°17 | 4° 9 | 5°18 | 13°52 | 15°53 | 11° 6 | 8°24 | 26° 4 | 2°19 | 1°30 | 8°36 | n.a. | M14 |
| T 15 | 5 21 21 | 20°47'36 | 14°32 | 6°48 | 5°17 | 5°14 | 13°50 | 16° 0 | 11° 4 | 8°22 | 26° 3 | 2°17 | 1°27 | 8°43 | n.a. | T 15 |
| W16 | 5 25 17 | 21°48'49 | 27°59 | 8°19 | 6°25 | 5° 9 | 13°47 | 16° 8 | 11° 3 | 8°21 | 26° 2 | 2°14 | 1°24 | 8°49 | n.a. | W16 |
| T 17 | 5 29 14 | 22°50'01 | 11♒38 | 9°51 | 7°33 | 5° 4 | 13°45 | 16°15 | 11° 1 | 8°19 | 26° 1 | 2°11 | 1°21 | 8°56 | n.a. | T 17 |
| F 18 | 5 33 11 | 23°51'13 | 25°27 | 11°23 | 8°41 | 4°58 | 13°42 | 16°22 | 10°59 | 8°18 | 26° 0 | 2° 8 | 1°18 | 9° 3 | n.a. | F 18 |
| S 19 | 5 37 7 | 24°52'23 | 9♓25 | 12°55 | 9°49 | 4°51 | 13°39 | 16°29 | 10°58 | 8°16 | 25°59 | 2° 6 | 1°14 | 9° 9 | n.a. | S 19 |
| S 20 | 5 41 4 | 25°53'33 | 23°30 | 14°29 | 10°57 | 4°43 | 13°35 | 16°36 | 10°56 | 8°14 | 25°58 | 2°D 5 | 1°11 | 9°16 | n.a. | S 20 |
| M21 | 5 45 0 | 26°54'41 | 7♈40 | 16° 2 | 12° 6 | 4°34 | 13°32 | 16°43 | 10°55 | 8°13 | 25°57 | 2° 6 | 1° 8 | 9°23 | n.a. | M21 |
| T 22 | 5 48 57 | 27°55'49 | 21°53 | 17°37 | 13°15 | 4°25 | 13°28 | 16°50 | 10°53 | 8°11 | 25°56 | 2° 7 | 1° 5 | 9°29 | n.a. | T 22 |
| W23 | 5 52 53 | 28°56'55 | 6♉ 7 | 19°11 | 14°24 | 4°15 | 13°25 | 16°57 | 10°52 | 8°10 | 25°55 | 2° 8 | 1° 2 | 9°36 | n.a. | W23 |
| T 24 | 5 56 50 | 29°58'01 | 20°20 | 20°47 | 15°33 | 4° 3 | 13°21 | 17° 4 | 10°50 | 8° 8 | 25°54 | 2°10 | 0°59 | 9°43 | n.a. | T 24 |
| F 25 | 6 0 46 | 0♑59'05 | 4♊28 | 22°23 | 16°42 | 3°52 | 13°17 | 17°11 | 10°49 | 8° 6 | 25°53 | 2°R10 | 0°55 | 9°49 | n.a. | F 25 |
| S 26 | 6 4 43 | 2° 0'08 | 18°28 | 23°59 | 17°51 | 3°39 | 13°12 | 17°18 | 10°47 | 8° 5 | 25°52 | 2° 9 | 0°52 | 9°56 | n.a. | S 26 |
| S 27 | 6 8 40 | 3° 1'11 | 2♋16 | 25°36 | 19° 0 | 3°26 | 13° 8 | 17°24 | 10°46 | 8° 3 | 25°51 | 2° 7 | 0°49 | 10° 3 | n.a. | S 27 |
| M28 | 6 12 36 | 4° 2'12 | 15°49 | 27°14 | 20°10 | 3°12 | 13° 3 | 17°31 | 10°45 | 8° 2 | 25°50 | 2° 2 | 0°46 | 10°10 | n.a. | M28 |
| T 29 | 6 16 33 | 5° 3'13 | 29° 4 | 28°53 | 21°20 | 2°57 | 12°58 | 17°38 | 10°44 | 8° 0 | 25°49 | 1°57 | 0°43 | 10°16 | n.a. | T 29 |
| W30 | 6 20 29 | 6° 4'12 | 12♌ 0 | 0♑32 | 22°29 | 2°41 | 12°54 | 17°45 | 10°42 | 7°59 | 25°48 | 1°51 | 0°39 | 10°23 | n.a. | W30 |
| T 31 | 6 24 26 | 7♑ 5'10 | 24♌38 | 2♑11 | 23♏39 | 2♌25 | 12♌48 | 17♐52 | 10♉41 | 7♊57 | 25♉48 | 1♐45 | 0♐36 | 10♎30 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 21s38 | 18n 3 | 4s 0 | 15s48 | 1n13 | 5s19 | 2n45 | 22n 6 | 2n58 | 17n50 | 1n 6 | 21s58 | 0n49 | 15n11 | 0s17 | 20n43 | 1s19 | 11n51 | 7s54 | 20s51 | 20s50 | 6s44 | | | n.a. |
| W 2 | 21 48 | 14 51 | 4 40 | 16 19 | 1 6 | 5 42 | 2 46 | 22 7 | 3 0 | 17 50 | 1 6 | 21 59 | 0 49 | 15 11 | 0 17 | 20 42 | 1 19 | 11 51 | 7 54 | 20 51 | 20 49 | 6 46 | | | n.a. |
| T 3 | 21 58 | 11 5 | 5 6 | 16 49 | 0 58 | 6 5 | 2 47 | 22 8 | 3 3 | 17 50 | 1 6 | 22 0 | 0 49 | 15 10 | 0 17 | 20 42 | 1 19 | 11 51 | 7 54 | 20 51 | 20 48 | 6 49 | | | n.a. |
| F 4 | 22 8 | 6 55 | 5 17 | 17 19 | 0 50 | 6 28 | 2 48 | 22 10 | 3 5 | 17 51 | 1 6 | 22 1 | 0 49 | 15 9 | 0 17 | 20 42 | 1 19 | 11 51 | 7 54 | 20 51 | 20 48 | 6 51 | | | n.a. |
| S 5 | 22 17 | 2 35 | 5 13 | 17 49 | 0 42 | 6 52 | 2 49 | 22 11 | 3 8 | 17 51 | 1 7 | 22 2 | 0 49 | 15 9 | 0 17 | 20 42 | 1 19 | 11 51 | 7 54 | 20 51 | 20 47 | 6 53 | | | n.a. |
| S 6 | 22 25 | 1s49 | 4 56 | 18 18 | 0 35 | 7 15 | 2 50 | 22 13 | 3 10 | 17 52 | 1 7 | 22 2 | 0 48 | 15 8 | 0 17 | 20 41 | 1 19 | 11 50 | 7 54 | 20 51 | 20 47 | 6 55 | | | n.a. |
| M 7 | 22 34 | 6 7 | 4 27 | 18 47 | 0 27 | 7 39 | 2 50 | 22 14 | 3 13 | 17 52 | 1 7 | 22 3 | 0 48 | 15 7 | 0 17 | 20 41 | 1 19 | 11 50 | 7 54 | 20 51 | 20 46 | 6 57 | | | n.a. |
| T 8 | 22 41 | 10 11 | 3 46 | 19 15 | 0 19 | 8 2 | 2 51 | 22 16 | 3 15 | 17 53 | 1 8 | 22 4 | 0 48 | 15 7 | 0 17 | 20 41 | 1 19 | 11 50 | 7 54 | 20 51 | 20 45 | 7 0 | | | n.a. |
| W 9 | 22 49 | 13 54 | 2 55 | 19 42 | 0 12 | 8 25 | 2 51 | 22 19 | 3 18 | 17 53 | 1 8 | 22 5 | 0 48 | 15 6 | 0 17 | 20 41 | 1 19 | 11 50 | 7 53 | 20 51 | 20 45 | 7 2 | | | n.a. |
| T 10 | 22 55 | 17 6 | 1 56 | 20 9 | 0 5 | 8 49 | 2 51 | 22 21 | 3 20 | 17 54 | 1 8 | 22 6 | 0 48 | 15 6 | 0 17 | 20 40 | 1 19 | 11 50 | 7 53 | 20 51 | 20 44 | 7 4 | | | n.a. |
| F 11 | 23 2 | 19 35 | 0 51 | 20 35 | 0s 3 | 9 12 | 2 51 | 22 24 | 3 23 | 17 55 | 1 8 | 22 7 | 0 48 | 15 5 | 0 17 | 20 40 | 1 19 | 11 50 | 7 53 | 20 52 | 20 43 | 7 6 | | | n.a. |
| S 12 | 23 8 | 21 11 | 0n18 | 21 0 | 0 10 | 9 36 | 2 51 | 22 26 | 3 25 | 17 55 | 1 9 | 22 7 | 0 48 | 15 4 | 0 17 | 20 40 | 1 19 | 11 49 | 7 53 | 20 52 | 20 43 | 7 8 | | | n.a. |
| S 13 | 23 13 | 21 44 | 1 27 | 21 25 | 0 17 | 9 59 | 2 51 | 22 29 | 3 28 | 17 56 | 1 9 | 22 8 | 0 48 | 15 4 | 0 17 | 20 40 | 1 19 | 11 49 | 7 53 | 20 51 | 20 42 | 7 11 | | | n.a. |
| M14 | 23 18 | 21 9 | 2 33 | 21 48 | 0 24 | 10 22 | 2 50 | 22 33 | 3 30 | 17 57 | 1 9 | 22 9 | 0 48 | 15 3 | 0 17 | 20 39 | 1 19 | 11 49 | 7 53 | 20 51 | 20 41 | 7 13 | | | n.a. |
| T 15 | 23 23 | 19 23 | 3 32 | 22 11 | 0 30 | 10 46 | 2 50 | 22 36 | 3 33 | 17 58 | 1 10 | 22 10 | 0 48 | 15 3 | 0 17 | 20 39 | 1 19 | 11 49 | 7 53 | 20 51 | 20 41 | 7 15 | | | n.a. |
| W16 | 23 27 | 16 32 | 4 21 | 22 33 | 0 37 | 11 9 | 2 49 | 22 40 | 3 35 | 17 59 | 1 10 | 22 11 | 0 48 | 15 2 | 0 17 | 20 39 | 1 19 | 11 49 | 7 53 | 20 50 | 20 40 | 7 17 | | | n.a. |
| T 17 | 23 30 | 12 46 | 4 55 | 22 53 | 0 43 | 11 32 | 2 48 | 22 43 | 3 37 | 18 0 | 1 10 | 22 12 | 0 48 | 15 2 | 0 17 | 20 39 | 1 19 | 11 49 | 7 53 | 20 49 | 20 39 | 7 19 | | | n.a. |
| F 18 | 23 33 | 8 16 | 5 13 | 23 13 | 0 50 | 11 54 | 2 48 | 22 47 | 3 40 | 18 1 | 1 10 | 22 12 | 0 48 | 15 1 | 0 17 | 20 38 | 1 18 | 11 49 | 7 52 | 20 49 | 20 39 | 7 21 | | | n.a. |
| S 19 | 23 36 | 3 18 | 5 12 | 23 31 | 0 56 | 12 17 | 2 47 | 22 51 | 3 42 | 18 2 | 1 11 | 22 13 | 0 48 | 15 1 | 0 17 | 20 38 | 1 18 | 11 49 | 7 52 | 20 49 | 20 38 | 7 24 | | | n.a. |
| S 20 | 23 38 | 1n52 | 4 53 | 23 48 | 1 2 | 12 40 | 2 45 | 22 56 | 3 45 | 18 4 | 1 11 | 22 14 | 0 48 | 15 0 | 0 17 | 20 38 | 1 18 | 11 48 | 7 52 | 20 48 | 20 37 | 7 26 | | | n.a. |
| M21 | 23 40 | 6 59 | 4 16 | 24 5 | 1 7 | 13 2 | 2 44 | 23 0 | 3 47 | 18 5 | 1 11 | 22 15 | 0 47 | 15 0 | 0 17 | 20 38 | 1 18 | 11 48 | 7 52 | 20 49 | 20 37 | 7 28 | | | n.a. |
| T 22 | 23 41 | 11 45 | 3 24 | 24 19 | 1 13 | 13 24 | 2 43 | 23 5 | 3 50 | 18 6 | 1 12 | 22 15 | 0 47 | 14 59 | 0 17 | 20 37 | 1 18 | 11 48 | 7 52 | 20 49 | 20 36 | 7 30 | | | n.a. |
| W23 | 23 42 | 15 53 | 2 18 | 24 33 | 1 18 | 13 46 | 2 41 | 23 10 | 3 52 | 18 7 | 1 12 | 22 16 | 0 47 | 14 59 | 0 17 | 20 37 | 1 18 | 11 48 | 7 52 | 20 49 | 20 35 | 7 32 | | | n.a. |
| T 24 | 23 42 | 19 4 | 1 5 | 24 45 | 1 23 | 14 7 | 2 40 | 23 15 | 3 54 | 18 9 | 1 12 | 22 17 | 0 47 | 14 58 | 0 17 | 20 37 | 1 18 | 11 48 | 7 52 | 20 49 | 20 35 | 7 34 | | | n.a. |
| F 25 | 23 42 | 21 4 | 0s13 | 24 56 | 1 28 | 14 29 | 2 38 | 23 20 | 3 57 | 18 10 | 1 12 | 22 18 | 0 47 | 14 58 | 0 17 | 20 37 | 1 18 | 11 48 | 7 51 | 20 49 | 20 34 | 7 37 | | | n.a. |
| S 26 | 23 41 | 21 44 | 1 28 | 25 6 | 1 32 | 14 50 | 2 37 | 23 25 | 3 59 | 18 12 | 1 13 | 22 18 | 0 47 | 14 58 | 0 17 | 20 37 | 1 18 | 11 48 | 7 51 | 20 49 | 20 33 | 7 39 | | | n.a. |
| S 27 | 23 40 | 21 4 | 2 37 | 25 14 | 1 36 | 15 11 | 2 35 | 23 30 | 4 1 | 18 13 | 1 13 | 22 19 | 0 47 | 14 57 | 0 17 | 20 36 | 1 18 | 11 48 | 7 51 | 20 49 | 20 33 | 7 41 | | | n.a. |
| M28 | 23 38 | 19 11 | 3 36 | 25 21 | 1 40 | 15 32 | 2 33 | 23 36 | 4 3 | 18 15 | 1 13 | 22 20 | 0 47 | 14 57 | 0 17 | 20 36 | 1 18 | 11 48 | 7 51 | 20 48 | 20 32 | 7 43 | | | n.a. |
| T 29 | 23 36 | 16 18 | 4 22 | 25 26 | 1 44 | 15 52 | 2 31 | 23 42 | 4 6 | 18 17 | 1 13 | 22 20 | 0 47 | 14 56 | 0 17 | 20 36 | 1 18 | 11 48 | 7 51 | 20 47 | 20 31 | 7 45 | | | n.a. |
| W30 | 23 34 | 12 41 | 4 53 | 25 29 | 1 47 | 16 12 | 2 29 | 23 47 | 4 8 | 18 18 | 1 14 | 22 21 | 0 47 | 14 56 | 0 17 | 20 36 | 1 18 | 11 48 | 7 51 | 20 46 | 20 31 | 7 47 | | | n.a. |
| T 31 | 23s31 | 8n36 | 5s 9 | 25s31 | 1s50 | 16s32 | 2n27 | 23n53 | 4n10 | 18n20 | 1n14 | 22s22 | 0n47 | 14n56 | 0s17 | 20n35 | 1s18 | 11n48 | 7s50 | 20s44 | 20s30 | 7s50 | | | n.a. |

Julian Day Number = 1694728.5, Delta T = 03h08m39s
Ecliptic obliquity = 23°42'09, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°04'24, Lahiri = - 4°57'23 Julian Calendar 1 Dec. 74 BCE == Greg. Calendar 29 Nov. 074 BCE

The year -73 astronomical counting style corresponds to year 074 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 73 BCE
# geocentric

## JANUARY 73 BCE (-72) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 6 28 22 | 8♉ 6'08 | 6♍59 | 3♉52 | 24♏49 | 2°R 8 | 12°R43 | 17♐59 | 10°R40 | 7°R56 | 25°R47 | 1°R40 | 0♐33 | 10♎36 | n.a. | F 1 |
| S 2 | 6 32 19 | 9° 7'05 | 19° 6 | 5°33 | 26° 0 | 1♌50 | 12♌38 | 18° 5 | 10♑39 | 7♊55 | 25♑46 | 1♐36 | 0°30 | 10°43 | n.a. | S 2 |
| S 3 | 6 36 15 | 10° 8'00 | 1♎ 2 | 7°14 | 27°10 | 1°32 | 12°32 | 18°12 | 10°38 | 7°53 | 25°45 | 1°34 | 0°27 | 10°50 | n.a. | S 3 |
| M 4 | 6 40 12 | 11° 8'55 | 12°53 | 8°57 | 28°20 | 1°13 | 12°27 | 18°19 | 10°37 | 7°52 | 25°44 | 1°D33 | 0°24 | 10°56 | n.a. | M 4 |
| T 5 | 6 44 9 | 12° 9'49 | 24°44 | 10°40 | 29°31 | 0°54 | 12°21 | 18°26 | 10°37 | 7°50 | 25°44 | 1°34 | 0°20 | 11° 3 | n.a. | T 5 |
| W 6 | 6 48 5 | 13°10'42 | 6♏39 | 12°24 | 0♐41 | 0°34 | 12°15 | 18°32 | 10°36 | 7°49 | 25°43 | 1°36 | 0°17 | 11°10 | n.a. | W 6 |
| T 7 | 6 52 2 | 14°11'34 | 18°44 | 14° 9 | 1°52 | 0°13 | 12° 9 | 18°39 | 10°35 | 7°48 | 25°42 | 1°37 | 0°14 | 11°16 | n.a. | T 7 |
| F 8 | 6 55 58 | 15°12'25 | 1♐ 3 | 15°54 | 3° 2 | 29♋52 | 12° 2 | 18°46 | 10°34 | 7°47 | 25°41 | 1°R38 | 0°11 | 11°23 | n.a. | F 8 |
| S 9 | 6 59 55 | 16°13'14 | 13°41 | 17°40 | 4°13 | 29°30 | 11°56 | 18°52 | 10°34 | 7°45 | 25°41 | 1°37 | 0° 8 | 11°30 | n.a. | S 9 |
| S 10 | 7 3 51 | 17°14'03 | 26°38 | 19°27 | 5°24 | 29° 8 | 11°49 | 18°59 | 10°33 | 7°44 | 25°40 | 1°34 | 0° 5 | 11°37 | n.a. | S 10 |
| M11 | 7 7 48 | 18°14'50 | 9♉56 | 21°14 | 6°35 | 28°46 | 11°43 | 19° 5 | 10°32 | 7°43 | 25°39 | 1°29 | 0° 1 | 11°43 | n.a. | M11 |
| T 12 | 7 11 44 | 19°15'35 | 23°34 | 23° 2 | 7°46 | 28°23 | 11°36 | 19°12 | 10°32 | 7°42 | 25°39 | 1°22 | 29♏58 | 11°50 | n.a. | T 12 |
| W13 | 7 15 41 | 20°16'20 | 7♒30 | 24°51 | 8°57 | 28° 0 | 11°29 | 19°18 | 10°31 | 7°40 | 25°38 | 1°14 | 29°55 | 11°57 | n.a. | W13 |
| T 14 | 7 19 38 | 21°17'02 | 21°38 | 26°40 | 10° 8 | 27°37 | 11°22 | 19°24 | 10°31 | 7°39 | 25°37 | 1° 5 | 29°52 | 12° 3 | n.a. | T 14 |
| F 15 | 7 23 34 | 22°17'43 | 5♓54 | 28°30 | 11°20 | 27°13 | 11°15 | 19°31 | 10°31 | 7°38 | 25°37 | 0°58 | 29°49 | 12°10 | n.a. | F 15 |
| S 16 | 7 27 31 | 23°18'22 | 20°13 | 0♒20 | 12°31 | 26°50 | 11° 8 | 19°37 | 10°30 | 7°37 | 25°36 | 0°51 | 29°45 | 12°17 | n.a. | S 16 |
| S 17 | 7 31 27 | 24°18'59 | 4♈30 | 2°11 | 13°42 | 26°26 | 11° 1 | 19°43 | 10°30 | 7°36 | 25°36 | 0°47 | 29°42 | 12°23 | n.a. | S 17 |
| M18 | 7 35 24 | 25°19'34 | 18°42 | 4° 1 | 14°54 | 26° 2 | 10°54 | 19°50 | 10°30 | 7°35 | 25°35 | 0°46 | 29°39 | 12°30 | n.a. | M18 |
| T 19 | 7 39 20 | 26°20'07 | 2♉47 | 5°52 | 16° 5 | 25°38 | 10°46 | 19°56 | 10°30 | 7°34 | 25°35 | 0°D45 | 29°36 | 12°37 | n.a. | T 19 |
| W20 | 7 43 17 | 27°20'39 | 16°45 | 7°42 | 17°16 | 25°14 | 10°39 | 20° 2 | 10°30 | 7°33 | 25°34 | 0°46 | 29°33 | 12°43 | n.a. | W20 |
| T 21 | 7 47 13 | 28°21'08 | 0♊35 | 9°31 | 18°28 | 24°50 | 10°31 | 20° 8 | 10°D30 | 7°32 | 25°34 | 0°R47 | 29°30 | 12°50 | n.a. | T 21 |
| F 22 | 7 51 10 | 29°21'35 | 14°16 | 11°20 | 19°40 | 24°26 | 10°24 | 20°14 | 10°30 | 7°31 | 25°33 | 0°46 | 29°26 | 12°57 | n.a. | F 22 |
| S 23 | 7 55 7 | 0♒22'01 | 27°48 | 13° 8 | 20°51 | 24° 3 | 10°16 | 20°20 | 10°30 | 7°30 | 25°33 | 0°43 | 29°23 | 13° 4 | n.a. | S 23 |
| S 24 | 7 59 3 | 1°22'24 | 11♋11 | 14°55 | 22° 3 | 23°40 | 10° 9 | 20°26 | 10°30 | 7°29 | 25°32 | 0°37 | 29°20 | 13°10 | n.a. | S 24 |
| M25 | 8 3 0 | 2°22'46 | 24°22 | 16°39 | 23°15 | 23°16 | 10° 1 | 20°32 | 10°30 | 7°29 | 25°32 | 0°29 | 29°17 | 13°17 | n.a. | M25 |
| T 26 | 8 6 56 | 3°23'06 | 7♌21 | 18°22 | 24°26 | 22°54 | 9°53 | 20°38 | 10°30 | 7°28 | 25°32 | 0°18 | 29°14 | 13°24 | n.a. | T 26 |
| W27 | 8 10 53 | 4°23'24 | 20° 5 | 20° 1 | 25°38 | 22°31 | 9°45 | 20°43 | 10°31 | 7°27 | 25°31 | 0° 6 | 29°11 | 13°30 | n.a. | W27 |
| T 28 | 8 14 49 | 5°23'40 | 2♍36 | 21°37 | 26°50 | 22° 9 | 9°38 | 20°49 | 10°31 | 7°26 | 25°31 | 29♏54 | 29° 7 | 13°37 | n.a. | T 28 |
| F 29 | 8 18 46 | 6°23'54 | 14°52 | 23°10 | 28° 2 | 21°47 | 9°30 | 20°55 | 10°31 | 7°25 | 25°31 | 29°43 | 29° 4 | 13°44 | n.a. | F 29 |
| S 30 | 8 22 42 | 7°24'07 | 26°57 | 24°38 | 29°14 | 21°26 | 9°22 | 21° 0 | 10°32 | 7°25 | 25°30 | 29°34 | 29° 1 | 13°50 | n.a. | S 30 |
| S 31 | 8 26 39 | 8♒24'18 | 8♎53 | 26♒ 1 | 0♉26 | 21♋ 5 | 9♌14 | 21♐ 6 | 10♑32 | 7♊24 | 25♑30 | 29♏27 | 28♏58 | 13♎57 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 23s27 | 4n15 | 5s10 | 25s32 | 1s53 | 16s51 | 2n24 | 23n59 | 4n12 | 18n22 | 1n14 | 22s22 | 0n47 | 14n55 | 0s17 | 20n35 | 1s18 | 11n48 | 7s50 | 20s43 | 20s29 | 7s52 | | n.a. |
| S 2 | 23 23 | 0s11 | 4 57 | 25 31 | 1 56 | 17 10 | 2 22 | 24 5 | 4 14 | 18 23 | 1 14 | 22 23 | 0 47 | 14 55 | 0 17 | 20 35 | 1 18 | 11 48 | 7 50 | 20 42 | 20 29 | 7 54 | | n.a. |
| S 3 | 23 19 | 4 33 | 4 31 | 25 28 | 1 58 | 17 29 | 2 20 | 24 11 | 4 16 | 18 25 | 1 15 | 22 24 | 0 47 | 14 55 | 0 17 | 20 35 | 1 18 | 11 48 | 7 50 | 20 42 | 20 28 | 7 56 | | n.a. |
| M 4 | 23 14 | 8 44 | 3 54 | 25 23 | 1 59 | 17 47 | 2 17 | 24 17 | 4 17 | 18 27 | 1 15 | 22 24 | 0 47 | 14 55 | 0 17 | 20 35 | 1 18 | 11 48 | 7 50 | 20 42 | 20 27 | 7 58 | | n.a. |
| T 5 | 23 8 | 12 34 | 3 7 | 25 16 | 2 0 | 18 5 | 2 15 | 24 23 | 4 19 | 18 29 | 1 15 | 22 25 | 0 47 | 14 54 | 0 17 | 20 35 | 1 18 | 11 48 | 7 50 | 20 42 | 20 27 | 8 0 | | n.a. |
| W 6 | 23 3 | 15 57 | 2 11 | 25 8 | 2 1 | 18 22 | 2 12 | 24 29 | 4 21 | 18 31 | 1 15 | 22 26 | 0 47 | 14 54 | 0 17 | 20 34 | 1 18 | 11 48 | 7 49 | 20 42 | 20 26 | 8 2 | | n.a. |
| T 7 | 22 56 | 18 42 | 1 9 | 24 58 | 2 2 | 18 39 | 2 9 | 24 35 | 4 22 | 18 33 | 1 16 | 22 26 | 0 47 | 14 54 | 0 17 | 20 34 | 1 18 | 11 48 | 7 49 | 20 43 | 20 25 | 8 4 | | n.a. |
| F 8 | 22 49 | 20 39 | 0 3 | 24 46 | 2 2 | 18 56 | 2 7 | 24 42 | 4 24 | 18 35 | 1 16 | 22 27 | 0 47 | 14 54 | 0 17 | 20 34 | 1 18 | 11 48 | 7 49 | 20 43 | 20 25 | 8 7 | | n.a. |
| S 9 | 22 42 | 21 37 | 1n 5 | 24 32 | 2 1 | 19 12 | 2 4 | 24 48 | 4 25 | 18 37 | 1 16 | 22 27 | 0 47 | 14 53 | 0 17 | 20 34 | 1 18 | 11 48 | 7 49 | 20 43 | 20 24 | 8 9 | | n.a. |
| S 10 | 22 35 | 21 29 | 2 11 | 24 16 | 2 0 | 19 27 | 2 1 | 24 54 | 4 26 | 18 39 | 1 16 | 22 28 | 0 47 | 14 53 | 0 16 | 20 34 | 1 18 | 11 48 | 7 49 | 20 42 | 20 23 | 8 11 | | n.a. |
| M11 | 22 27 | 20 8 | 3 12 | 23 58 | 1 59 | 19 42 | 1 58 | 25 0 | 4 28 | 18 41 | 1 16 | 22 29 | 0 47 | 14 53 | 0 16 | 20 33 | 1 18 | 11 48 | 7 49 | 20 41 | 20 23 | 8 13 | | n.a. |
| T 12 | 22 18 | 17 38 | 4 3 | 23 38 | 1 57 | 19 57 | 1 55 | 25 6 | 4 29 | 18 43 | 1 17 | 22 29 | 0 46 | 14 53 | 0 16 | 20 33 | 1 18 | 11 48 | 7 48 | 20 40 | 20 22 | 8 15 | | n.a. |
| W13 | 22 9 | 14 4 | 4 41 | 23 16 | 1 55 | 20 11 | 1 52 | 25 11 | 4 30 | 18 45 | 1 17 | 22 30 | 0 46 | 14 53 | 0 16 | 20 33 | 1 18 | 11 48 | 7 48 | 20 38 | 20 21 | 8 17 | | n.a. |
| T 14 | 22 0 | 9 41 | 5 3 | 22 52 | 1 51 | 20 25 | 1 49 | 25 17 | 4 31 | 18 47 | 1 17 | 22 30 | 0 46 | 14 53 | 0 16 | 20 33 | 1 18 | 11 48 | 7 48 | 20 36 | 20 21 | 8 19 | | n.a. |
| F 15 | 21 50 | 4 43 | 5 5 | 22 27 | 1 48 | 20 38 | 1 46 | 25 23 | 4 31 | 18 49 | 1 17 | 22 31 | 0 46 | 14 53 | 0 16 | 20 33 | 1 18 | 11 48 | 7 48 | 20 35 | 20 20 | 8 21 | | n.a. |
| S 16 | 21 40 | 0n31 | 4 49 | 21 59 | 1 44 | 20 51 | 1 43 | 25 28 | 4 32 | 18 52 | 1 17 | 22 31 | 0 46 | 14 53 | 0 16 | 20 33 | 1 18 | 11 48 | 7 48 | 20 33 | 20 19 | 8 23 | | n.a. |
| S 17 | 21 29 | 5 42 | 4 16 | 21 29 | 1 39 | 21 3 | 1 40 | 25 33 | 4 33 | 18 54 | 1 18 | 22 32 | 0 46 | 14 53 | 0 16 | 20 33 | 1 17 | 11 48 | 7 47 | 20 32 | 20 19 | 8 26 | | n.a. |
| M18 | 21 18 | 10 34 | 3 26 | 20 58 | 1 33 | 21 14 | 1 37 | 25 39 | 4 33 | 18 56 | 1 18 | 22 32 | 0 46 | 14 53 | 0 16 | 20 33 | 1 17 | 11 48 | 7 47 | 20 32 | 20 18 | 8 28 | | n.a. |
| T 19 | 21 7 | 14 50 | 2 24 | 20 25 | 1 27 | 21 25 | 1 33 | 25 44 | 4 34 | 18 58 | 1 18 | 22 33 | 0 46 | 14 53 | 0 16 | 20 32 | 1 17 | 11 48 | 7 47 | 20 32 | 20 17 | 8 30 | | n.a. |
| W20 | 20 55 | 18 13 | 1 15 | 19 50 | 1 20 | 21 35 | 1 30 | 25 48 | 4 34 | 19 0 | 1 18 | 22 33 | 0 46 | 14 53 | 0 16 | 20 32 | 1 17 | 11 48 | 7 47 | 20 32 | 20 17 | 8 32 | | n.a. |
| T 21 | 20 43 | 20 31 | 0 1 | 19 13 | 1 12 | 21 45 | 1 27 | 25 53 | 4 34 | 19 3 | 1 18 | 22 34 | 0 46 | 14 53 | 0 16 | 20 32 | 1 17 | 11 48 | 7 47 | 20 32 | 20 16 | 8 34 | | n.a. |
| F 22 | 20 31 | 21 35 | 1s12 | 18 35 | 1 4 | 21 54 | 1 23 | 25 57 | 4 34 | 19 5 | 1 18 | 22 34 | 0 46 | 14 53 | 0 16 | 20 32 | 1 17 | 11 48 | 7 46 | 20 32 | 20 15 | 8 36 | | n.a. |
| S 23 | 20 18 | 21 22 | 2 19 | 17 56 | 0 55 | 22 3 | 1 20 | 26 2 | 4 34 | 19 7 | 1 18 | 22 35 | 0 46 | 14 53 | 0 16 | 20 32 | 1 17 | 11 49 | 7 46 | 20 31 | 20 14 | 8 38 | | n.a. |
| S 24 | 20 4 | 19 56 | 3 18 | 17 15 | 0 45 | 22 11 | 1 17 | 26 6 | 4 34 | 19 9 | 1 19 | 22 35 | 0 46 | 14 53 | 0 16 | 20 32 | 1 17 | 11 49 | 7 46 | 20 30 | 20 14 | 8 40 | | n.a. |
| M25 | 19 51 | 17 27 | 4 6 | 16 34 | 0 34 | 22 18 | 1 13 | 26 9 | 4 33 | 19 12 | 1 19 | 22 36 | 0 46 | 14 53 | 0 16 | 20 32 | 1 17 | 11 49 | 7 46 | 20 28 | 20 13 | 8 42 | | n.a. |
| T 26 | 19 37 | 14 8 | 4 39 | 15 51 | 0 23 | 22 25 | 1 10 | 26 13 | 4 33 | 19 14 | 1 19 | 22 36 | 0 46 | 14 53 | 0 16 | 20 32 | 1 17 | 11 49 | 7 46 | 20 26 | 20 12 | 8 44 | | n.a. |
| W27 | 19 22 | 10 14 | 4 58 | 15 9 | 0 11 | 22 31 | 1 7 | 26 16 | 4 32 | 19 16 | 1 19 | 22 36 | 0 46 | 14 53 | 0 16 | 20 32 | 1 17 | 11 49 | 7 45 | 20 24 | 20 12 | 8 46 | | n.a. |
| T 28 | 19 8 | 5 58 | 5 2 | 14 26 | 0n 1 | 22 37 | 1 3 | 26 20 | 4 32 | 19 18 | 1 19 | 22 37 | 0 46 | 14 53 | 0 16 | 20 32 | 1 17 | 11 49 | 7 45 | 20 21 | 20 11 | 8 49 | | n.a. |
| F 29 | 18 53 | 1 32 | 4 52 | 13 43 | 0 14 | 22 42 | 1 0 | 26 23 | 4 31 | 19 21 | 1 19 | 22 37 | 0 46 | 14 53 | 0 16 | 20 31 | 1 17 | 11 49 | 7 45 | 20 19 | 20 10 | 8 51 | | n.a. |
| S 30 | 18 37 | 2s53 | 4 29 | 13 1 | 0 28 | 22 46 | 0 56 | 26 25 | 4 30 | 19 23 | 1 19 | 22 38 | 0 46 | 14 53 | 0 16 | 20 31 | 1 17 | 11 49 | 7 45 | 20 17 | 20 10 | 8 53 | | n.a. |
| S 31 | 18s22 | 7s 9 | 3s55 | 12s20 | 0n42 | 22s49 | 0n53 | 26n28 | 4n29 | 19n25 | 1n19 | 22s38 | 0n46 | 14n54 | 0s16 | 20n31 | 1s17 | 11n50 | 7s44 | 20s15 | 20s 9 | 8s55 | | n.a. |

Julian Day Number = 1694759.5, Delta T = 03h08m38s
Ecliptic obliquity = 23°42'09, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°04'20, Lahiri = - 4°57'19 Julian Calendar 1 Jan. 73 BCE == Greg. Calendar 30 Dec. 074 BCE

The year -72 astronomical counting style corresponds to year 073 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 73 BCE
# geocentric

## FEBRUARY 73 BCE (-72) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 8 30 36 | 9♒24'27 | 20♎43 | 27♒18 | 1♑38 | 20°R44 | 9°R 6 | 21♐11 | 10♉33 | 7°R23 | 25°R30 | 29°R23 | 28♏55 | 14♎ 4 | n.a. | M 1 |
| T 2 | 8 34 32 | 10°24'34 | 2♏33 | 28°29 | 2°50 | 20♋25 | 8♌58 | 21°17 | 10°34 | 7♊23 | 25♉30 | 29♏21 | 28°51 | 14°10 | n.a. | T 2 |
| W 3 | 8 38 29 | 11°24'40 | 14°26 | 29°33 | 4° 2 | 20° 5 | 8°50 | 21°22 | 10°34 | 7°22 | 25°29 | 29°D21 | 28°48 | 14°17 | n.a. | W 3 |
| T 4 | 8 42 25 | 12°24'45 | 26°30 | 0♓30 | 5°15 | 19°47 | 8°43 | 21°28 | 10°35 | 7°22 | 25°29 | 29°R21 | 28°45 | 14°24 | n.a. | T 4 |
| F 5 | 8 46 22 | 13°24'47 | 8♐49 | 1°18 | 6°27 | 19°28 | 8°35 | 21°33 | 10°36 | 7°21 | 25°29 | 29°21 | 28°42 | 14°30 | n.a. | F 5 |
| S 6 | 8 50 18 | 14°24'48 | 21°28 | 1°59 | 7°39 | 19°11 | 8°27 | 21°38 | 10°36 | 7°21 | 25°29 | 29°19 | 28°39 | 14°37 | n.a. | S 6 |
| S 7 | 8 54 15 | 15°24'47 | 4♑31 | 2°31 | 8°51 | 18°54 | 8°19 | 21°43 | 10°37 | 7°20 | 25°29 | 29°15 | 28°36 | 14°44 | n.a. | S 7 |
| M 8 | 8 58 11 | 16°24'44 | 18° 0 | 2°55 | 10° 3 | 18°38 | 8°11 | 21°48 | 10°38 | 7°20 | 25°29 | 29° 8 | 28°32 | 14°50 | n.a. | M 8 |
| T 9 | 9 2 8 | 17°24'40 | 1♒55 | 3° 9 | 11°16 | 18°23 | 8° 4 | 21°53 | 10°39 | 7°20 | 25°29 | 28°58 | 28°29 | 14°57 | n.a. | T 9 |
| W10 | 9 6 5 | 18°24'33 | 16°12 | 3°R14 | 12°28 | 18° 8 | 7°56 | 21°58 | 10°40 | 7°19 | 25°29 | 28°47 | 28°26 | 15° 4 | n.a. | W10 |
| T 11 | 9 10 1 | 19°24'24 | 0♓47 | 3°11 | 13°41 | 17°54 | 7°48 | 22° 3 | 10°41 | 7°19 | 25°D29 | 28°35 | 28°23 | 15°11 | n.a. | T 11 |
| F 12 | 9 13 58 | 20°24'13 | 15°30 | 2°59 | 14°53 | 17°41 | 7°41 | 22° 8 | 10°42 | 7°19 | 25°29 | 28°24 | 28°20 | 15°17 | n.a. | F 12 |
| S 13 | 9 17 54 | 21°24'00 | 0♈16 | 2°39 | 16° 5 | 17°29 | 7°33 | 22°13 | 10°44 | 7°18 | 25°29 | 28°14 | 28°17 | 15°24 | n.a. | S 13 |
| S 14 | 9 21 51 | 22°23'44 | 14°55 | 2°11 | 17°18 | 17°17 | 7°26 | 22°17 | 10°45 | 7°18 | 25°29 | 28° 8 | 28°13 | 15°31 | n.a. | S 14 |
| M15 | 9 25 47 | 23°23'27 | 29°22 | 1°36 | 18°30 | 17° 6 | 7°19 | 22°22 | 10°46 | 7°18 | 25°29 | 28° 4 | 28°10 | 15°37 | n.a. | M15 |
| T 16 | 9 29 44 | 24°23'06 | 13♉34 | 0°56 | 19°43 | 16°56 | 7°11 | 22°26 | 10°47 | 7°18 | 25°29 | 28° 3 | 28° 7 | 15°44 | n.a. | T 16 |
| W17 | 9 33 40 | 25°22'44 | 27°30 | 0°10 | 20°55 | 16°47 | 7° 4 | 22°31 | 10°49 | 7°18 | 25°29 | 28° 3 | 28° 4 | 15°51 | n.a. | W17 |
| T 18 | 9 37 37 | 26°22'19 | 11♊11 | 29♒20 | 22° 8 | 16°38 | 6°57 | 22°35 | 10°50 | 7°18 | 25°29 | 28° 2 | 28° 1 | 15°57 | n.a. | T 18 |
| F 19 | 9 41 34 | 27°21'52 | 24°36 | 28°27 | 23°20 | 16°31 | 6°50 | 22°39 | 10°52 | 7°D18 | 25°30 | 28° 1 | 27°57 | 16° 4 | n.a. | F 19 |
| S 20 | 9 45 30 | 28°21'22 | 7♋49 | 27°33 | 24°33 | 16°24 | 6°43 | 22°44 | 10°53 | 7°18 | 25°30 | 27°57 | 27°54 | 16°11 | n.a. | S 20 |
| S 21 | 9 49 27 | 29°20'50 | 20°49 | 26°38 | 25°45 | 16°18 | 6°36 | 22°48 | 10°55 | 7°18 | 25°30 | 27°50 | 27°51 | 16°17 | n.a. | S 21 |
| M22 | 9 53 23 | 0♓20'15 | 3♌39 | 25°44 | 26°58 | 16°13 | 6°30 | 22°52 | 10°56 | 7°18 | 25°30 | 27°40 | 27°48 | 16°24 | n.a. | M22 |
| T 23 | 9 57 20 | 1°19'38 | 16°18 | 24°51 | 28°10 | 16° 8 | 6°23 | 22°56 | 10°58 | 7°18 | 25°30 | 27°27 | 27°45 | 16°31 | n.a. | T 23 |
| W24 | 10 1 16 | 2°18'59 | 28°46 | 24° 1 | 29°23 | 16° 4 | 6°17 | 23° 0 | 11° 0 | 7°18 | 25°31 | 27°14 | 27°42 | 16°37 | n.a. | W24 |
| T 25 | 10 5 13 | 3°18'18 | 11♍ 4 | 23°15 | 0♒36 | 16° 1 | 6°10 | 23° 3 | 11° 2 | 7°18 | 25°31 | 27° 0 | 27°38 | 16°44 | n.a. | T 25 |
| F 26 | 10 9 9 | 4°17'35 | 23°12 | 22°33 | 1°48 | 15°59 | 6° 4 | 23° 7 | 11° 3 | 7°18 | 25°31 | 26°47 | 27°35 | 16°51 | n.a. | F 26 |
| S 27 | 10 13 6 | 5°16'49 | 5♎12 | 21°55 | 3° 1 | 15°58 | 5°58 | 23°11 | 11° 5 | 7°19 | 25°32 | 26°36 | 27°32 | 16°57 | n.a. | S 27 |
| S 28 | 10 17 2 | 6°16'02 | 17° 4 | 21°23 | 4°13 | 15°D57 | 5°52 | 23°14 | 11° 7 | 7°19 | 25°32 | 26°27 | 27°29 | 17° 4 | n.a. | S 28 |
| M29 | 10 20 59 | 7♓15'12 | 28♎53 | 20♒56 | 5♒26 | 15♋57 | 5♌46 | 23♐18 | 11♉ 9 | 7♊19 | 25♉32 | 26♏22 | 27♏26 | 17♎11 | n.a. | M29 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 18s 6 | 11s 6 | 3s10 | 11s39 | 0n57 | 22s52 | 0n49 | 26n30 | 4n29 | 19n27 | 1n20 | 22s39 | 0n46 | 14n54 | 0s16 | 20n31 | 1s17 | 11n50 | 7s44 | 20s14 | 20s 8 | 8s57 | | n.a. |
| T 2 | 17 49 | 14 38 | 2 17 | 11 1 | 1 11 | 22 54 | 0 46 | 26 32 | 4 27 | 19 29 | 1 20 | 22 39 | 0 46 | 14 54 | 0 16 | 20 31 | 1 17 | 11 50 | 7 44 | 20 14 | 20 7 | 8 59 | | n.a. |
| W 3 | 17 33 | 17 36 | 1 18 | 10 25 | 1 26 | 22 56 | 0 43 | 26 34 | 4 26 | 19 32 | 1 20 | 22 39 | 0 46 | 14 54 | 0 16 | 20 31 | 1 17 | 11 50 | 7 44 | 20 14 | 20 7 | 9 1 | | n.a. |
| T 4 | 17 16 | 19 50 | 0 15 | 9 51 | 1 41 | 22 57 | 0 39 | 26 36 | 4 25 | 19 34 | 1 20 | 22 40 | 0 46 | 14 54 | 0 16 | 20 31 | 1 17 | 11 50 | 7 44 | 20 14 | 20 6 | 9 3 | | n.a. |
| F 5 | 16 59 | 21 11 | 0n50 | 9 19 | 1 56 | 22 57 | 0 36 | 26 37 | 4 24 | 19 36 | 1 20 | 22 40 | 0 46 | 14 55 | 0 16 | 20 31 | 1 17 | 11 50 | 7 43 | 20 14 | 20 5 | 9 5 | | n.a. |
| S 6 | 16 41 | 21 31 | 1 55 | 8 51 | 2 11 | 22 56 | 0 32 | 26 38 | 4 22 | 19 38 | 1 20 | 22 40 | 0 46 | 14 55 | 0 16 | 20 31 | 1 17 | 11 51 | 7 43 | 20 14 | 20 5 | 9 7 | | n.a. |
| S 7 | 16 23 | 20 43 | 2 55 | 8 26 | 2 25 | 22 55 | 0 29 | 26 39 | 4 21 | 19 40 | 1 20 | 22 41 | 0 46 | 14 55 | 0 16 | 20 31 | 1 17 | 11 51 | 7 43 | 20 13 | 20 4 | 9 9 | | n.a. |
| M 8 | 16 5 | 18 43 | 3 47 | 8 5 | 2 38 | 22 53 | 0 26 | 26 40 | 4 19 | 19 42 | 1 20 | 22 41 | 0 46 | 14 56 | 0 16 | 20 31 | 1 16 | 11 51 | 7 43 | 20 11 | 20 3 | 9 11 | | n.a. |
| T 9 | 15 47 | 15 36 | 4 28 | 7 48 | 2 51 | 22 51 | 0 22 | 26 41 | 4 18 | 19 44 | 1 20 | 22 41 | 0 46 | 14 56 | 0 16 | 20 31 | 1 16 | 11 51 | 7 42 | 20 9 | 20 3 | 9 13 | | n.a. |
| W10 | 15 29 | 11 29 | 4 54 | 7 35 | 3 3 | 22 48 | 0 19 | 26 41 | 4 16 | 19 46 | 1 20 | 22 42 | 0 46 | 14 56 | 0 16 | 20 31 | 1 16 | 11 51 | 7 42 | 20 6 | 20 2 | 9 15 | | n.a. |
| T 11 | 15 10 | 6 38 | 5 0 | 7 26 | 3 14 | 22 44 | 0 16 | 26 41 | 4 14 | 19 48 | 1 20 | 22 42 | 0 46 | 14 57 | 0 16 | 20 31 | 1 16 | 11 52 | 7 42 | 20 4 | 20 1 | 9 17 | | n.a. |
| F 12 | 14 51 | 1 22 | 4 48 | 7 22 | 3 23 | 22 40 | 0 12 | 26 42 | 4 13 | 19 50 | 1 20 | 22 42 | 0 46 | 14 57 | 0 16 | 20 31 | 1 16 | 11 52 | 7 42 | 20 1 | 20 0 | 9 19 | | n.a. |
| S 13 | 14 31 | 4n 0 | 4 16 | 7 22 | 3 31 | 22 34 | 0 9 | 26 41 | 4 11 | 19 52 | 1 20 | 22 43 | 0 46 | 14 57 | 0 16 | 20 31 | 1 16 | 11 52 | 7 42 | 19 59 | 20 0 | 9 21 | | n.a. |
| S 14 | 14 12 | 9 7 | 3 27 | 7 26 | 3 38 | 22 29 | 0 6 | 26 41 | 4 9 | 19 54 | 1 20 | 22 43 | 0 46 | 14 58 | 0 16 | 20 31 | 1 16 | 11 52 | 7 41 | 19 58 | 19 59 | 9 23 | | n.a. |
| M15 | 13 52 | 13 38 | 2 25 | 7 34 | 3 42 | 22 22 | 0 2 | 26 41 | 4 7 | 19 56 | 1 20 | 22 43 | 0 46 | 14 58 | 0 16 | 20 31 | 1 16 | 11 53 | 7 41 | 19 57 | 19 58 | 9 25 | | n.a. |
| T 16 | 13 32 | 17 17 | 1 16 | 7 46 | 3 45 | 22 15 | 0s 1 | 26 40 | 4 5 | 19 58 | 1 20 | 22 43 | 0 46 | 14 59 | 0 16 | 20 31 | 1 16 | 11 53 | 7 41 | 19 57 | 19 58 | 9 27 | | n.a. |
| W17 | 13 12 | 19 52 | 0 3 | 8 1 | 3 46 | 22 7 | 0 4 | 26 39 | 4 3 | 20 0 | 1 20 | 22 44 | 0 46 | 14 59 | 0 16 | 20 31 | 1 16 | 11 53 | 7 41 | 19 57 | 19 57 | 9 29 | | n.a. |
| T 18 | 12 52 | 21 14 | 1s 9 | 8 19 | 3 45 | 21 59 | 0 7 | 26 39 | 4 1 | 20 2 | 1 20 | 22 44 | 0 46 | 15 0 | 0 16 | 20 31 | 1 16 | 11 53 | 7 41 | 19 56 | 19 56 | 9 31 | | n.a. |
| F 19 | 12 31 | 21 20 | 2 15 | 8 41 | 3 42 | 21 50 | 0 10 | 26 37 | 3 59 | 20 4 | 1 20 | 22 44 | 0 46 | 15 0 | 0 16 | 20 31 | 1 16 | 11 53 | 7 40 | 19 56 | 19 55 | 9 33 | | n.a. |
| S 20 | 12 11 | 20 15 | 3 13 | 9 4 | 3 37 | 21 40 | 0 13 | 26 36 | 3 57 | 20 5 | 1 20 | 22 44 | 0 46 | 15 1 | 0 16 | 20 31 | 1 16 | 11 54 | 7 40 | 19 55 | 19 55 | 9 35 | | n.a. |
| S 21 | 11 50 | 18 7 | 4 0 | 9 29 | 3 30 | 21 30 | 0 16 | 26 35 | 3 55 | 20 7 | 1 20 | 22 45 | 0 46 | 15 1 | 0 16 | 20 31 | 1 16 | 11 54 | 7 40 | 19 54 | 19 54 | 9 37 | | n.a. |
| M22 | 11 29 | 15 6 | 4 34 | 9 55 | 3 22 | 21 19 | 0 19 | 26 34 | 3 53 | 20 9 | 1 20 | 22 45 | 0 46 | 15 2 | 0 16 | 20 31 | 1 16 | 11 54 | 7 40 | 19 51 | 19 53 | 9 39 | | n.a. |
| T 23 | 11 7 | 11 27 | 4 54 | 10 22 | 3 12 | 21 7 | 0 22 | 26 32 | 3 51 | 20 11 | 1 20 | 22 45 | 0 46 | 15 2 | 0 15 | 20 31 | 1 16 | 11 55 | 7 39 | 19 49 | 19 52 | 9 41 | | n.a. |
| W24 | 10 46 | 7 21 | 5 0 | 10 49 | 3 1 | 20 55 | 0 25 | 26 30 | 3 49 | 20 12 | 1 20 | 22 45 | 0 46 | 15 3 | 0 15 | 20 32 | 1 16 | 11 55 | 7 39 | 19 45 | 19 52 | 9 43 | | n.a. |
| T 25 | 10 24 | 3 1 | 4 51 | 11 16 | 2 48 | 20 42 | 0 28 | 26 29 | 3 47 | 20 14 | 1 20 | 22 45 | 0 46 | 15 3 | 0 15 | 20 32 | 1 16 | 11 55 | 7 39 | 19 42 | 19 51 | 9 45 | | n.a. |
| F 26 | 10 3 | 1s23 | 4 29 | 11 43 | 2 35 | 20 29 | 0 31 | 26 27 | 3 45 | 20 15 | 1 20 | 22 46 | 0 46 | 15 4 | 0 15 | 20 32 | 1 16 | 11 55 | 7 39 | 19 39 | 19 50 | 9 47 | | n.a. |
| S 27 | 9 41 | 5 41 | 3 56 | 12 8 | 2 21 | 20 15 | 0 34 | 26 25 | 3 42 | 20 17 | 1 20 | 22 46 | 0 46 | 15 4 | 0 15 | 20 32 | 1 15 | 11 56 | 7 39 | 19 36 | 19 50 | 9 49 | | n.a. |
| S 28 | 9 19 | 9 43 | 3 12 | 12 32 | 2 6 | 20 0 | 0 36 | 26 23 | 3 40 | 20 18 | 1 20 | 22 46 | 0 46 | 15 5 | 0 15 | 20 32 | 1 15 | 11 56 | 7 38 | 19 35 | 19 49 | 9 51 | | n.a. |
| M29 | 8s57 | 13s22 | 2s20 | 12s55 | 1n51 | 19s45 | 0s39 | 26n21 | 3n38 | 20n20 | 1n20 | 22s46 | 0n46 | 15n 6 | 0s15 | 20n32 | 1s15 | 11n56 | 7s38 | 19s33 | 19s48 | 9s53 | | n.a. |

Julian Day Number = 1694790.5, Delta T = 03h08m37s
Ecliptic obliquity = 23°42'09, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°04'15, Lahiri = - 4°57'15 Julian Calendar 1 Feb. 73 BCE == Greg. Calendar 30 Jan. 073 BCE


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# ASTRODIENST EPHEMERIS for the year 73 BCE
# geocentric

## MARCH 73 BCE (-72) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 10 24 56 | 8♓14'21 | 10♏41 | 20°R35 | 6♒39 | 15♋58 | 5°R41 | 23♐21 | 11♉11 | 7♊20 | 25♉33 | 26°R19 | 27♏22 | 17♎17 | n.a. | T 1 |
| W 2 | 10 28 52 | 9°13'28 | 22°34 | 20♒20 | 7°52 | 15°59 | 5♌35 | 23°25 | 11°13 | 7°20 | 25°33 | 26°D18 | 27°19 | 17°24 | n.a. | W 2 |
| T 3 | 10 32 49 | 10°12'33 | 4♐36 | 20°11 | 9° 4 | 16° 2 | 5°30 | 23°28 | 11°15 | 7°20 | 25°34 | 26°R18 | 27°16 | 17°31 | n.a. | T 3 |
| F 4 | 10 36 45 | 11°11'36 | 16°53 | 20°D 7 | 10°17 | 16° 5 | 5°24 | 23°31 | 11°17 | 7°21 | 25°34 | 26♏18 | 27°13 | 17°37 | n.a. | F 4 |
| S 5 | 10 40 42 | 12°10'37 | 29°29 | 20° 8 | 11°30 | 16° 8 | 5°19 | 23°34 | 11°19 | 7°21 | 25°35 | 26°17 | 27°10 | 17°44 | n.a. | S 5 |
| S 6 | 10 44 38 | 13° 9'37 | 12♑30 | 20°16 | 12°43 | 16°12 | 5°14 | 23°37 | 11°21 | 7°22 | 25°35 | 26°13 | 27° 7 | 17°51 | n.a. | S 6 |
| M 7 | 10 48 35 | 14° 8'34 | 25°59 | 20°28 | 13°55 | 16°17 | 5° 9 | 23°40 | 11°24 | 7°22 | 25°36 | 26° 8 | 27° 3 | 17°58 | n.a. | M 7 |
| T 8 | 10 52 31 | 15° 7'30 | 9♒58 | 20°45 | 15° 8 | 16°23 | 5° 5 | 23°43 | 11°26 | 7°23 | 25°36 | 26° 0 | 27° 0 | 18° 4 | n.a. | T 8 |
| W 9 | 10 56 28 | 16° 6'24 | 24°24 | 21° 8 | 16°21 | 16°29 | 5° 0 | 23°45 | 11°28 | 7°24 | 25°37 | 25°50 | 26°57 | 18°11 | n.a. | W 9 |
| T 10 | 11 0 25 | 17° 5'15 | 9♓11 | 21°34 | 17°34 | 16°36 | 4°56 | 23°48 | 11°30 | 7°24 | 25°38 | 25°39 | 26°54 | 18°18 | n.a. | T 10 |
| F 11 | 11 4 21 | 18° 4'05 | 24°14 | 22° 5 | 18°47 | 16°44 | 4°52 | 23°51 | 11°33 | 7°25 | 25°38 | 25°29 | 26°51 | 18°24 | n.a. | F 11 |
| S 12 | 11 8 18 | 19° 2'52 | 9♈20 | 22°41 | 20° 0 | 16°52 | 4°48 | 23°53 | 11°35 | 7°26 | 25°39 | 25°21 | 26°48 | 18°31 | n.a. | S 12 |
| S 13 | 11 12 14 | 20° 1'37 | 24°21 | 23°20 | 21°12 | 17° 1 | 4°44 | 23°55 | 11°38 | 7°26 | 25°40 | 25°15 | 26°44 | 18°38 | n.a. | S 13 |
| M14 | 11 16 11 | 21° 0'20 | 9♉ 9 | 24° 3 | 22°25 | 17°10 | 4°40 | 23°58 | 11°40 | 7°27 | 25°40 | 25°12 | 26°41 | 18°44 | n.a. | M14 |
| T 15 | 11 20 7 | 21°59'01 | 23°37 | 24°49 | 23°38 | 17°20 | 4°37 | 24° 0 | 11°43 | 7°28 | 25°41 | 25°D11 | 26°38 | 18°51 | n.a. | T 15 |
| W16 | 11 24 4 | 22°57'40 | 7♊43 | 25°39 | 24°51 | 17°31 | 4°33 | 24° 2 | 11°45 | 7°29 | 25°42 | 25°11 | 26°35 | 18°58 | n.a. | W16 |
| T 17 | 11 28 0 | 23°56'16 | 21°26 | 26°33 | 26° 4 | 17°42 | 4°30 | 24° 4 | 11°48 | 7°30 | 25°42 | 25°R12 | 26°32 | 19° 4 | n.a. | T 17 |
| F 18 | 11 31 57 | 24°54'50 | 4♋49 | 27°29 | 27°17 | 17°54 | 4°27 | 24° 6 | 11°51 | 7°30 | 25°43 | 25°12 | 26°28 | 19°11 | n.a. | F 18 |
| S 19 | 11 35 53 | 25°53'21 | 17°53 | 28°28 | 28°30 | 18° 6 | 4°25 | 24° 7 | 11°53 | 7°31 | 25°44 | 25° 9 | 26°25 | 19°18 | n.a. | S 19 |
| S 20 | 11 39 50 | 26°51'51 | 0♌41 | 29°30 | 29°42 | 18°19 | 4°22 | 24° 9 | 11°56 | 7°32 | 25°45 | 25° 5 | 26°22 | 19°24 | n.a. | S 20 |
| M21 | 11 43 47 | 27°50'17 | 13°16 | 0♓34 | 0♓55 | 18°32 | 4°20 | 24°11 | 11°59 | 7°33 | 25°46 | 24°58 | 26°19 | 19°31 | n.a. | M21 |
| T 22 | 11 47 43 | 28°48'42 | 25°39 | 1°42 | 2° 8 | 18°46 | 4°17 | 24°12 | 12° 1 | 7°34 | 25°46 | 24°49 | 26°16 | 19°38 | n.a. | T 22 |
| W23 | 11 51 40 | 29°47'05 | 7♍52 | 2°51 | 3°21 | 19° 0 | 4°15 | 24°14 | 12° 4 | 7°35 | 25°47 | 24°39 | 26°13 | 19°44 | n.a. | W23 |
| T 24 | 11 55 36 | 0♈45'25 | 19°58 | 4° 4 | 4°34 | 19°15 | 4°14 | 24°15 | 12° 7 | 7°36 | 25°48 | 24°28 | 26° 9 | 19°51 | n.a. | T 24 |
| F 25 | 11 59 33 | 1°43'44 | 1♎57 | 5°18 | 5°47 | 19°30 | 4°12 | 24°16 | 12°10 | 7°38 | 25°49 | 24°19 | 26° 6 | 19°58 | n.a. | F 25 |
| S 26 | 12 3 29 | 2°42'01 | 13°50 | 6°35 | 7° 0 | 19°46 | 4°10 | 24°17 | 12°13 | 7°39 | 25°50 | 24°11 | 26° 3 | 20° 4 | n.a. | S 26 |
| S 27 | 12 7 26 | 3°40'15 | 25°40 | 7°53 | 8°13 | 20° 2 | 4° 9 | 24°18 | 12°16 | 7°40 | 25°51 | 24° 5 | 26° 0 | 20°11 | n.a. | S 27 |
| M28 | 12 11 22 | 4°38'29 | 7♏28 | 9°14 | 9°26 | 20°18 | 4° 8 | 24°19 | 12°19 | 7°41 | 25°52 | 24° 1 | 25°57 | 20°18 | n.a. | M28 |
| T 29 | 12 15 19 | 5°36'40 | 19°18 | 10°38 | 10°39 | 20°36 | 4° 7 | 24°20 | 12°21 | 7°42 | 25°53 | 23°D59 | 25°53 | 20°24 | n.a. | T 29 |
| W30 | 12 19 16 | 6°34'50 | 1♐12 | 12° 3 | 11°52 | 20°53 | 4° 6 | 24°21 | 12°24 | 7°43 | 25°54 | 23°59 | 25°50 | 20°31 | n.a. | W30 |
| T 31 | 12 23 12 | 7♈32'58 | 13♐15 | 13♓30 | 13♓ 5 | 21♋11 | 4♌ 6 | 24♐21 | 12♉27 | 7♊45 | 25♉55 | 24♏ 0 | 25♏47 | 20♎38 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 8s34 | 16s29 | 1s22 | 13s16 | 1n36 | 19s29 | 0s42 | 26n19 | 3n36 | 20n21 | 1n20 | 22s46 | 0n46 | 15n 6 | 0s15 | 20n32 | 1s15 | 11n57 | 7s38 | 19s33 | 19s47 | 9s55 | | | n.a. |
| W 2 | 8 12 | 18 56 | 0 20 | 13 35 | 1 21 | 19 13 | 0 44 | 26 16 | 3 34 | 20 22 | 1 20 | 22 47 | 0 46 | 15 7 | 0 15 | 20 32 | 1 15 | 11 57 | 7 38 | 19 32 | 19 47 | 9 57 | | | n.a. |
| T 3 | 7 49 | 20 34 | 0n44 | 13 53 | 1 6 | 18 56 | 0 47 | 26 14 | 3 32 | 20 24 | 1 20 | 22 47 | 0 46 | 15 8 | 0 15 | 20 32 | 1 15 | 11 57 | 7 37 | 19 32 | 19 46 | 9 59 | | | n.a. |
| F 4 | 7 27 | 21 16 | 1 47 | 14 8 | 0 51 | 18 39 | 0 49 | 26 11 | 3 29 | 20 25 | 1 20 | 22 47 | 0 46 | 15 8 | 0 15 | 20 32 | 1 15 | 11 58 | 7 37 | 19 32 | 19 45 | 10 1 | | | n.a. |
| S 5 | 7 4 | 20 55 | 2 47 | 14 21 | 0 36 | 18 21 | 0 51 | 26 9 | 3 27 | 20 26 | 1 20 | 22 47 | 0 46 | 15 9 | 0 15 | 20 33 | 1 15 | 11 58 | 7 37 | 19 32 | 19 44 | 10 3 | | | n.a. |
| S 6 | 6 41 | 19 28 | 3 39 | 14 33 | 0 22 | 18 2 | 0 54 | 26 6 | 3 25 | 20 27 | 1 20 | 22 47 | 0 46 | 15 10 | 0 15 | 20 33 | 1 15 | 11 58 | 7 37 | 19 31 | 19 44 | 10 5 | | | n.a. |
| M 7 | 6 18 | 16 53 | 4 22 | 14 42 | 0 8 | 17 43 | 0 56 | 26 3 | 3 23 | 20 28 | 1 19 | 22 47 | 0 46 | 15 10 | 0 15 | 20 33 | 1 15 | 11 59 | 7 37 | 19 30 | 19 43 | 10 7 | | | n.a. |
| T 8 | 5 55 | 13 16 | 4 51 | 14 49 | 0s 5 | 17 24 | 0 58 | 26 0 | 3 21 | 20 29 | 1 19 | 22 47 | 0 46 | 15 11 | 0 15 | 20 33 | 1 15 | 11 59 | 7 36 | 19 28 | 19 42 | 10 9 | | | n.a. |
| W 9 | 5 32 | 8 47 | 5 2 | 14 54 | 0 18 | 17 4 | 1 1 | 25 58 | 3 19 | 20 30 | 1 19 | 22 48 | 0 46 | 15 12 | 0 15 | 20 33 | 1 15 | 11 59 | 7 36 | 19 26 | 19 41 | 10 11 | | | n.a. |
| T 10 | 5 9 | 3 40 | 4 54 | 14 57 | 0 31 | 16 44 | 1 3 | 25 55 | 3 17 | 20 31 | 1 19 | 22 48 | 0 46 | 15 13 | 0 15 | 20 33 | 1 15 | 12 0 | 7 36 | 19 23 | 19 41 | 10 13 | | | n.a. |
| F 11 | 4 46 | 1n45 | 4 26 | 14 58 | 0 43 | 16 23 | 1 5 | 25 52 | 3 15 | 20 32 | 1 19 | 22 48 | 0 46 | 15 13 | 0 15 | 20 33 | 1 15 | 12 0 | 7 36 | 19 21 | 19 40 | 10 15 | | | n.a. |
| S 12 | 4 23 | 7 5 | 3 39 | 14 58 | 0 54 | 16 2 | 1 7 | 25 48 | 3 12 | 20 33 | 1 19 | 22 48 | 0 46 | 15 14 | 0 15 | 20 34 | 1 15 | 12 0 | 7 36 | 19 19 | 19 39 | 10 17 | | | n.a. |
| S 13 | 4 0 | 11 58 | 2 36 | 14 55 | 1 5 | 15 40 | 1 9 | 25 45 | 3 10 | 20 34 | 1 19 | 22 48 | 0 46 | 15 15 | 0 15 | 20 34 | 1 15 | 12 1 | 7 35 | 19 17 | 19 39 | 10 19 | | | n.a. |
| M14 | 3 36 | 16 2 | 1 24 | 14 50 | 1 15 | 15 18 | 1 10 | 25 42 | 3 8 | 20 35 | 1 19 | 22 48 | 0 46 | 15 16 | 0 15 | 20 34 | 1 15 | 12 1 | 7 35 | 19 16 | 19 38 | 10 21 | | | n.a. |
| T 15 | 3 13 | 19 1 | 0 8 | 14 43 | 1 25 | 14 55 | 1 12 | 25 39 | 3 6 | 20 35 | 1 19 | 22 48 | 0 46 | 15 17 | 0 15 | 20 34 | 1 15 | 12 1 | 7 35 | 19 16 | 19 37 | 10 23 | | | n.a. |
| W16 | 2 49 | 20 45 | 1s 6 | 14 35 | 1 34 | 14 32 | 1 14 | 25 35 | 3 4 | 20 36 | 1 19 | 22 48 | 0 46 | 15 17 | 0 15 | 20 34 | 1 15 | 12 2 | 7 35 | 19 16 | 19 36 | 10 25 | | | n.a. |
| T 17 | 2 26 | 21 10 | 2 15 | 14 24 | 1 42 | 14 9 | 1 16 | 25 32 | 3 2 | 20 37 | 1 18 | 22 48 | 0 46 | 15 18 | 0 15 | 20 35 | 1 14 | 12 2 | 7 35 | 19 16 | 19 36 | 10 26 | | | n.a. |
| F 18 | 2 3 | 20 22 | 3 15 | 14 12 | 1 50 | 13 45 | 1 17 | 25 28 | 3 0 | 20 37 | 1 18 | 22 49 | 0 46 | 15 19 | 0 15 | 20 35 | 1 14 | 12 2 | 7 34 | 19 16 | 19 35 | 10 28 | | | n.a. |
| S 19 | 1 39 | 18 28 | 4 3 | 13 58 | 1 57 | 13 21 | 1 19 | 25 24 | 2 58 | 20 38 | 1 18 | 22 49 | 0 46 | 15 20 | 0 15 | 20 35 | 1 14 | 12 3 | 7 34 | 19 16 | 19 34 | 10 30 | | | n.a. |
| S 20 | 1 16 | 15 42 | 4 38 | 13 42 | 2 4 | 12 57 | 1 20 | 25 21 | 2 56 | 20 38 | 1 18 | 22 49 | 0 46 | 15 21 | 0 15 | 20 35 | 1 14 | 12 3 | 7 34 | 19 15 | 19 33 | 10 32 | | | n.a. |
| M21 | 0 52 | 12 15 | 4 59 | 13 25 | 2 10 | 12 32 | 1 21 | 25 17 | 2 54 | 20 39 | 1 18 | 22 49 | 0 46 | 15 22 | 0 15 | 20 35 | 1 14 | 12 3 | 7 34 | 19 13 | 19 33 | 10 34 | | | n.a. |
| T 22 | 0 29 | 8 20 | 5 5 | 13 6 | 2 15 | 12 7 | 1 23 | 25 13 | 2 52 | 20 39 | 1 18 | 22 49 | 0 46 | 15 22 | 0 15 | 20 36 | 1 14 | 12 4 | 7 34 | 19 11 | 19 32 | 10 36 | | | n.a. |
| W23 | 0 5 | 4 7 | 4 57 | 12 45 | 2 20 | 11 41 | 1 24 | 25 9 | 2 50 | 20 40 | 1 18 | 22 49 | 0 46 | 15 23 | 0 15 | 20 36 | 1 14 | 12 4 | 7 33 | 19 8 | 19 31 | 10 38 | | | n.a. |
| T 24 | 0n18 | 0s12 | 4 36 | 12 22 | 2 25 | 11 16 | 1 25 | 25 5 | 2 48 | 20 40 | 1 18 | 22 49 | 0 46 | 15 24 | 0 15 | 20 36 | 1 14 | 12 5 | 7 33 | 19 6 | 19 30 | 10 40 | | | n.a. |
| F 25 | 0 42 | 4 29 | 4 3 | 11 58 | 2 28 | 10 50 | 1 26 | 25 1 | 2 46 | 20 40 | 1 17 | 22 49 | 0 46 | 15 25 | 0 15 | 20 36 | 1 14 | 12 5 | 7 33 | 19 3 | 19 30 | 10 42 | | | n.a. |
| S 26 | 1 5 | 8 34 | 3 19 | 11 32 | 2 31 | 10 23 | 1 27 | 24 57 | 2 45 | 20 41 | 1 17 | 22 49 | 0 46 | 15 26 | 0 15 | 20 36 | 1 14 | 12 5 | 7 33 | 19 1 | 19 29 | 10 44 | | | n.a. |
| S 27 | 1 28 | 12 18 | 2 27 | 11 5 | 2 34 | 9 57 | 1 28 | 24 52 | 2 43 | 20 41 | 1 17 | 22 49 | 0 46 | 15 27 | 0 15 | 20 37 | 1 14 | 12 6 | 7 33 | 19 0 | 19 28 | 10 46 | | | n.a. |
| M28 | 1 52 | 15 32 | 1 28 | 10 36 | 2 36 | 9 30 | 1 29 | 24 48 | 2 41 | 20 41 | 1 17 | 22 49 | 0 46 | 15 28 | 0 15 | 20 37 | 1 14 | 12 6 | 7 33 | 18 59 | 19 27 | 10 47 | | | n.a. |
| T 29 | 2 15 | 18 9 | 0 25 | 10 5 | 2 37 | 9 3 | 1 30 | 24 43 | 2 39 | 20 41 | 1 17 | 22 49 | 0 46 | 15 29 | 0 15 | 20 37 | 1 14 | 12 7 | 7 32 | 18 59 | 19 26 | 10 49 | | | n.a. |
| W30 | 2 38 | 19 59 | 0n39 | 9 33 | 2 38 | 8 35 | 1 31 | 24 39 | 2 37 | 20 41 | 1 17 | 22 49 | 0 46 | 15 30 | 0 15 | 20 37 | 1 14 | 12 7 | 7 32 | 18 59 | 19 26 | 10 51 | | | n.a. |
| T 31 | 3n 2 | 20s57 | 1n42 | 8s59 | 2s38 | 8s 7 | 1s31 | 24n34 | 2n35 | 20n41 | 1n17 | 22s49 | 0n46 | 15n31 | 0s15 | 20n38 | 1s14 | 12n 7 | 7s32 | 18s59 | 19s25 | 10s53 | | | n.a. |

Julian Day Number = 1694819.5, Delta T = 03h08m36s
Ecliptic obliquity = 23°42'09, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°04'11, Lahiri = - 4°57'11 Julian Calendar 1 March 73 BCE == Greg. Calendar 28 Feb. 073 BCE


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# ASTRODIENST EPHEMERIS for the year 73 BCE
# geocentric

## APRIL 73 BCE (-72) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 12 27 9 | 8♈31'04 | 25♐32 | 14♓59 | 14♓18 | 21♋29 | 4°R 5 | 24♐22 | 12♉31 | 7♊46 | 25♉56 | 24♏ 2 | 25♏44 | 20♎44 | n.a. | F 1 |
| S 2 | 12 31 5 | 9°29'10 | 8♑ 7 | 16°30 | 15°31 | 21°48 | 4♌ 5 | 24°22 | 12°34 | 7°47 | 25°57 | 24°R 3 | 25°41 | 20°51 | n.a. | S 2 |
| S 3 | 12 35 2 | 10°27'13 | 21° 4 | 18° 3 | 16°44 | 22° 7 | 4°D 5 | 24°23 | 12°37 | 7°49 | 25°58 | 24° 2 | 25°38 | 20°58 | n.a. | S 3 |
| M 4 | 12 38 58 | 11°25'15 | 4♒28 | 19°38 | 17°57 | 22°26 | 4° 5 | 24°23 | 12°40 | 7°50 | 25°59 | 24° 0 | 25°34 | 21° 4 | n.a. | M 4 |
| T 5 | 12 42 55 | 12°23'16 | 18°21 | 21°15 | 19°10 | 22°46 | 4° 6 | 24°23 | 12°43 | 7°52 | 26° 0 | 23°56 | 25°31 | 21°11 | n.a. | T 5 |
| W 6 | 12 46 51 | 13°21'15 | 2♓41 | 22°54 | 20°23 | 23° 7 | 4° 6 | 24°R23 | 12°46 | 7°53 | 26° 1 | 23°51 | 25°28 | 21°18 | n.a. | W 6 |
| T 7 | 12 50 48 | 14°19'13 | 17°27 | 24°35 | 21°36 | 23°27 | 4° 7 | 24°23 | 12°49 | 7°54 | 26° 2 | 23°45 | 25°25 | 21°24 | n.a. | T 7 |
| F 8 | 12 54 44 | 15°17'09 | 2♈31 | 26°17 | 22°49 | 23°48 | 4° 8 | 24°23 | 12°52 | 7°56 | 26° 3 | 23°39 | 25°22 | 21°31 | n.a. | F 8 |
| S 9 | 12 58 41 | 16°15'03 | 17°45 | 28° 2 | 24° 2 | 24°10 | 4° 9 | 24°22 | 12°56 | 7°57 | 26° 4 | 23°34 | 25°19 | 21°38 | n.a. | S 9 |
| S 10 | 13 2 38 | 17°12'56 | 2♉57 | 29°48 | 25°15 | 24°31 | 4°10 | 24°22 | 12°59 | 7°59 | 26° 5 | 23°31 | 25°15 | 21°44 | n.a. | S 10 |
| M11 | 13 6 34 | 18°10'48 | 17°59 | 1♈37 | 26°28 | 24°53 | 4°11 | 24°22 | 13° 2 | 8° 0 | 26° 7 | 23°D30 | 25°12 | 21°51 | n.a. | M11 |
| T 12 | 13 10 31 | 19° 8'37 | 2♊42 | 3°27 | 27°41 | 25°16 | 4°13 | 24°21 | 13° 5 | 8° 2 | 26° 8 | 23°30 | 25° 9 | 21°58 | n.a. | T 12 |
| W13 | 13 14 27 | 20° 6'25 | 17° 2 | 5°19 | 28°54 | 25°38 | 4°15 | 24°20 | 13° 9 | 8° 4 | 26° 9 | 23°31 | 25° 6 | 22° 4 | n.a. | W13 |
| T 14 | 13 18 24 | 21° 4'12 | 0♋56 | 7°13 | 0♈ 7 | 26° 1 | 4°17 | 24°20 | 13°12 | 8° 5 | 26°10 | 23°33 | 25° 3 | 22°11 | n.a. | T 14 |
| F 15 | 13 22 20 | 22° 1'56 | 14°25 | 9° 9 | 1°20 | 26°25 | 4°19 | 24°19 | 13°15 | 8° 7 | 26°11 | 23°34 | 24°59 | 22°18 | n.a. | F 15 |
| S 16 | 13 26 17 | 22°59'38 | 27°30 | 11° 7 | 2°33 | 26°48 | 4°21 | 24°18 | 13°19 | 8° 9 | 26°13 | 23°R34 | 24°56 | 22°24 | n.a. | S 16 |
| S 17 | 13 30 13 | 23°57'19 | 10♌15 | 13° 7 | 3°46 | 27°12 | 4°24 | 24°17 | 13°22 | 8°10 | 26°14 | 23°33 | 24°53 | 22°31 | n.a. | S 17 |
| M18 | 13 34 10 | 24°54'58 | 22°43 | 15° 8 | 4°59 | 27°36 | 4°26 | 24°16 | 13°26 | 8°12 | 26°15 | 23°30 | 24°50 | 22°38 | n.a. | M18 |
| T 19 | 13 38 7 | 25°52'36 | 4♍58 | 17°11 | 6°12 | 28° 1 | 4°29 | 24°15 | 13°29 | 8°14 | 26°16 | 23°27 | 24°47 | 22°44 | n.a. | T 19 |
| W20 | 13 42 3 | 26°50'11 | 17° 2 | 19°16 | 7°25 | 28°25 | 4°32 | 24°13 | 13°32 | 8°16 | 26°17 | 23°23 | 24°44 | 22°51 | n.a. | W20 |
| T 21 | 13 46 0 | 27°47'46 | 28°59 | 21°23 | 8°38 | 28°51 | 4°36 | 24°12 | 13°36 | 8°17 | 26°19 | 23°18 | 24°40 | 22°58 | n.a. | T 21 |
| F 22 | 13 49 56 | 28°45'19 | 10♎51 | 23°30 | 9°51 | 29°16 | 4°39 | 24°10 | 13°39 | 8°19 | 26°20 | 23°14 | 24°37 | 23° 4 | n.a. | F 22 |
| S 23 | 13 53 53 | 29°42'50 | 22°40 | 25°39 | 11° 4 | 29°41 | 4°42 | 24° 9 | 13°43 | 8°21 | 26°21 | 23°11 | 24°34 | 23°11 | n.a. | S 23 |
| S 24 | 13 57 49 | 0♉40'20 | 4♏29 | 27°49 | 12°18 | 0♌ 7 | 4°46 | 24° 7 | 13°46 | 8°23 | 26°23 | 23° 9 | 24°31 | 23°18 | n.a. | S 24 |
| M25 | 14 1 46 | 1°37'49 | 16°20 | 29°59 | 13°31 | 0°33 | 4°50 | 24° 5 | 13°49 | 8°25 | 26°24 | 23° 7 | 24°28 | 23°24 | n.a. | M25 |
| T 26 | 14 5 42 | 2°35'17 | 28°15 | 2♉11 | 14°44 | 1° 0 | 4°54 | 24° 4 | 13°53 | 8°26 | 26°25 | 23°D 7 | 24°25 | 23°31 | n.a. | T 26 |
| W27 | 14 9 39 | 3°32'44 | 10♐15 | 4°22 | 15°57 | 1°26 | 4°58 | 24° 2 | 13°56 | 8°28 | 26°27 | 23° 8 | 24°21 | 23°38 | n.a. | W27 |
| T 28 | 14 13 36 | 4°30'10 | 22°26 | 6°34 | 17°10 | 1°53 | 5° 2 | 24° 0 | 14° 0 | 8°30 | 26°28 | 23° 9 | 24°18 | 23°44 | n.a. | T 28 |
| F 29 | 14 17 32 | 5°27'35 | 4♑48 | 8°45 | 18°23 | 2°20 | 5° 7 | 23°58 | 14° 3 | 8°32 | 26°29 | 23°11 | 24°15 | 23°51 | n.a. | F 29 |
| S 30 | 14 21 29 | 6♉24'59 | 17♑27 | 10♉56 | 19♈36 | 2♌47 | 5♌12 | 23♐55 | 14♉ 7 | 8♊34 | 26♉31 | 23♏12 | 24♏12 | 23♎58 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 3n25 | 20s55 | 2n42 | 8s24 | 2s38 | 7s40 | 1s32 | 24n30 | 2n34 | 20n41 | 1n16 | 22s49 | 0n46 | 15n32 | 0s15 | 20n38 | 1s14 | 12n 8 | 7s32 | 18s59 | 19s24 | 10s55 | | n.a. |
| S 2 | 3 48 | 19 51 | 3 36 | 7 47 | 2 37 | 7 12 | 1 33 | 24 25 | 2 32 | 20 41 | 1 16 | 22 49 | 0 46 | 15 33 | 0 15 | 20 38 | 1 14 | 12 8 | 7 32 | 18 59 | 19 23 | 10 57 | | n.a. |
| S 3 | 4 11 | 17 44 | 4 21 | 7 9 | 2 36 | 6 43 | 1 33 | 24 20 | 2 30 | 20 41 | 1 16 | 22 49 | 0 46 | 15 34 | 0 15 | 20 38 | 1 14 | 12 8 | 7 32 | 18 59 | 19 23 | 10 59 | | n.a. |
| M 4 | 4 34 | 14 37 | 4 53 | 6 30 | 2 34 | 6 15 | 1 33 | 24 15 | 2 28 | 20 41 | 1 16 | 22 49 | 0 46 | 15 34 | 0 15 | 20 39 | 1 14 | 12 9 | 7 31 | 18 59 | 19 22 | 11 1 | | n.a. |
| T 5 | 4 57 | 10 36 | 5 9 | 5 49 | 2 31 | 5 46 | 1 34 | 24 10 | 2 27 | 20 40 | 1 16 | 22 49 | 0 46 | 15 35 | 0 15 | 20 39 | 1 14 | 12 9 | 7 31 | 18 58 | 19 21 | 11 2 | | n.a. |
| W 6 | 5 20 | 5 52 | 5 7 | 5 6 | 2 28 | 5 17 | 1 34 | 24 5 | 2 25 | 20 40 | 1 16 | 22 49 | 0 46 | 15 36 | 0 15 | 20 39 | 1 14 | 12 10 | 7 31 | 18 56 | 19 20 | 11 4 | | n.a. |
| T 7 | 5 42 | 0 39 | 4 44 | 4 23 | 2 24 | 4 48 | 1 34 | 23 59 | 2 23 | 20 40 | 1 16 | 22 49 | 0 46 | 15 37 | 0 15 | 20 40 | 1 13 | 12 10 | 7 31 | 18 55 | 19 20 | 11 6 | | n.a. |
| F 8 | 6 5 | 4n43 | 4 2 | 3 38 | 2 20 | 4 19 | 1 34 | 23 54 | 2 21 | 20 39 | 1 15 | 22 49 | 0 46 | 15 38 | 0 15 | 20 40 | 1 13 | 12 11 | 7 31 | 18 53 | 19 19 | 11 8 | | n.a. |
| S 9 | 6 28 | 9 51 | 3 2 | 2 51 | 2 15 | 3 50 | 1 34 | 23 49 | 2 20 | 20 39 | 1 15 | 22 49 | 0 46 | 15 39 | 0 15 | 20 40 | 1 13 | 12 11 | 7 31 | 18 52 | 19 18 | 11 10 | | n.a. |
| S 10 | 6 50 | 14 21 | 1 50 | 2 4 | 2 10 | 3 21 | 1 34 | 23 43 | 2 18 | 20 38 | 1 15 | 22 49 | 0 46 | 15 40 | 0 15 | 20 40 | 1 13 | 12 11 | 7 30 | 18 52 | 19 17 | 11 12 | | n.a. |
| M11 | 7 12 | 17 52 | 0 30 | 1 15 | 2 4 | 2 51 | 1 34 | 23 37 | 2 16 | 20 38 | 1 15 | 22 49 | 0 46 | 15 41 | 0 15 | 20 41 | 1 13 | 12 12 | 7 30 | 18 51 | 19 17 | 11 14 | | n.a. |
| T 12 | 7 35 | 20 7 | 0s50 | 0 25 | 1 58 | 2 22 | 1 34 | 23 32 | 2 15 | 20 37 | 1 15 | 22 49 | 0 46 | 15 42 | 0 15 | 20 41 | 1 13 | 12 12 | 7 30 | 18 51 | 19 16 | 11 16 | | n.a. |
| W13 | 7 57 | 20 59 | 2 5 | 0n27 | 1 51 | 1 52 | 1 34 | 23 26 | 2 13 | 20 37 | 1 15 | 22 49 | 0 46 | 15 43 | 0 15 | 20 41 | 1 13 | 12 13 | 7 30 | 18 51 | 19 15 | 11 17 | | n.a. |
| T 14 | 8 19 | 20 31 | 3 11 | 1 19 | 1 43 | 1 23 | 1 33 | 23 20 | 2 12 | 20 36 | 1 14 | 22 49 | 0 45 | 15 44 | 0 15 | 20 42 | 1 13 | 12 13 | 7 30 | 18 52 | 19 14 | 11 19 | | n.a. |
| F 15 | 8 40 | 18 53 | 4 3 | 2 12 | 1 36 | 0 53 | 1 33 | 23 14 | 2 10 | 20 36 | 1 14 | 22 49 | 0 45 | 15 46 | 0 15 | 20 42 | 1 13 | 12 13 | 7 30 | 18 52 | 19 13 | 11 21 | | n.a. |
| S 16 | 9 2 | 16 17 | 4 42 | 3 6 | 1 27 | 0 23 | 1 33 | 23 8 | 2 8 | 20 35 | 1 14 | 22 49 | 0 45 | 15 47 | 0 15 | 20 42 | 1 13 | 12 14 | 7 30 | 18 52 | 19 13 | 11 23 | | n.a. |
| S 17 | 9 24 | 12 58 | 5 5 | 4 2 | 1 19 | 0n 7 | 1 32 | 23 1 | 2 7 | 20 34 | 1 14 | 22 49 | 0 45 | 15 48 | 0 15 | 20 43 | 1 13 | 12 14 | 7 29 | 18 52 | 19 12 | 11 25 | | n.a. |
| M18 | 9 45 | 9 10 | 5 13 | 4 57 | 1 10 | 0 36 | 1 31 | 22 55 | 2 5 | 20 33 | 1 14 | 22 49 | 0 45 | 15 49 | 0 15 | 20 43 | 1 13 | 12 15 | 7 29 | 18 51 | 19 11 | 11 27 | | n.a. |
| T 19 | 10 6 | 5 2 | 5 7 | 5 54 | 1 0 | 1 6 | 1 31 | 22 48 | 2 4 | 20 32 | 1 14 | 22 49 | 0 45 | 15 50 | 0 15 | 20 43 | 1 13 | 12 15 | 7 29 | 18 50 | 19 10 | 11 28 | | n.a. |
| W20 | 10 27 | 0 46 | 4 47 | 6 51 | 0 50 | 1 36 | 1 30 | 22 42 | 2 2 | 20 32 | 1 14 | 22 49 | 0 45 | 15 51 | 0 15 | 20 43 | 1 13 | 12 15 | 7 29 | 18 49 | 19 10 | 11 30 | | n.a. |
| T 21 | 10 48 | 3s29 | 4 15 | 7 48 | 0 40 | 2 6 | 1 29 | 22 35 | 2 1 | 20 31 | 1 13 | 22 49 | 0 45 | 15 52 | 0 14 | 20 44 | 1 13 | 12 16 | 7 29 | 18 48 | 19 9 | 11 32 | | n.a. |
| F 22 | 11 9 | 7 35 | 3 32 | 8 45 | 0 30 | 2 36 | 1 28 | 22 28 | 1 59 | 20 30 | 1 13 | 22 49 | 0 45 | 15 53 | 0 14 | 20 44 | 1 13 | 12 16 | 7 29 | 18 47 | 19 8 | 11 34 | | n.a. |
| S 23 | 11 30 | 11 23 | 2 40 | 9 43 | 0 20 | 3 5 | 1 28 | 22 21 | 1 58 | 20 29 | 1 13 | 22 49 | 0 45 | 15 54 | 0 14 | 20 44 | 1 13 | 12 17 | 7 29 | 18 46 | 19 7 | 11 36 | | n.a. |
| S 24 | 11 50 | 14 44 | 1 41 | 10 40 | 0 9 | 3 35 | 1 27 | 22 14 | 1 56 | 20 28 | 1 13 | 22 49 | 0 45 | 15 55 | 0 14 | 20 45 | 1 13 | 12 17 | 7 29 | 18 46 | 19 6 | 11 37 | | n.a. |
| M25 | 12 10 | 17 30 | 0 37 | 11 37 | 0n 1 | 4 5 | 1 26 | 22 7 | 1 55 | 20 27 | 1 13 | 22 49 | 0 45 | 15 56 | 0 14 | 20 45 | 1 13 | 12 17 | 7 28 | 18 45 | 19 6 | 11 39 | | n.a. |
| T 26 | 12 30 | 19 32 | 0n28 | 12 33 | 0 12 | 4 34 | 1 25 | 22 0 | 1 53 | 20 25 | 1 13 | 22 49 | 0 45 | 15 57 | 0 14 | 20 45 | 1 13 | 12 18 | 7 28 | 18 45 | 19 5 | 11 41 | | n.a. |
| W27 | 12 50 | 20 42 | 1 33 | 13 28 | 0 22 | 5 4 | 1 23 | 21 53 | 1 52 | 20 24 | 1 12 | 22 49 | 0 45 | 15 58 | 0 14 | 20 46 | 1 13 | 12 18 | 7 28 | 18 46 | 19 4 | 11 43 | | n.a. |
| T 28 | 13 10 | 20 54 | 2 35 | 14 22 | 0 33 | 5 33 | 1 22 | 21 45 | 1 51 | 20 23 | 1 12 | 22 49 | 0 45 | 15 59 | 0 14 | 20 46 | 1 13 | 12 19 | 7 28 | 18 46 | 19 3 | 11 45 | | n.a. |
| F 29 | 13 29 | 20 6 | 3 31 | 15 15 | 0 43 | 6 2 | 1 21 | 21 38 | 1 49 | 20 22 | 1 12 | 22 49 | 0 45 | 16 0 | 0 14 | 20 46 | 1 13 | 12 19 | 7 28 | 18 46 | 19 2 | 11 46 | | n.a. |
| S 30 | 13n48 | 18s18 | 4n17 | 16n 6 | 0n53 | 6n31 | 1s20 | 21n30 | 1n48 | 20n20 | 1n12 | 22s48 | 0n45 | 16n 1 | 0s14 | 20n47 | 1s13 | 12n19 | 7s28 | 18s47 | 19s 2 | 11s48 | | n.a. |

Julian Day Number = 1694850.5, Delta T = 03h08m35s
Ecliptic obliquity = 23°42'09, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°04'07, Lahiri = - 4°57'07 Julian Calendar 1 Apr. 73 BCE == Greg. Calendar 30 March 073 BCE

The year -72 astronomical counting style corresponds to year 073 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 73 BCE
# geocentric

## MAY 73 BCE (-72) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 14 25 25 | 7♉22'23 | 0♒25 | 13♉ 6 | 20♈50 | 3♌15 | 5♌16 | 23°R53 | 14♉10 | 8♊36 | 26♉32 | 23♏13 | 24♏ 9 | 24♎ 4 | n.a. | S 1 |
| M 2 | 14 29 22 | 8°19'45 | 13°45 | 15°15 | 22° 3 | 3°42 | 5°21 | 23♐51 | 14°14 | 8°38 | 26°33 | 23°R13 | 24° 5 | 24°11 | n.a. | M 2 |
| T 3 | 14 33 18 | 9°17'07 | 27°29 | 17°23 | 23°16 | 4°10 | 5°26 | 23°48 | 14°17 | 8°40 | 26°35 | 23°12 | 24° 2 | 24°18 | n.a. | T 3 |
| W 4 | 14 37 15 | 10°14'28 | 11♓39 | 19°29 | 24°29 | 4°38 | 5°32 | 23°46 | 14°21 | 8°42 | 26°36 | 23°11 | 23°59 | 24°24 | n.a. | W 4 |
| T 5 | 14 41 11 | 11°11'49 | 26°12 | 21°34 | 25°42 | 5° 7 | 5°37 | 23°43 | 14°24 | 8°44 | 26°37 | 23°10 | 23°56 | 24°31 | n.a. | T 5 |
| F 6 | 14 45 8 | 12° 9'08 | 11♈ 4 | 23°37 | 26°55 | 5°35 | 5°43 | 23°41 | 14°28 | 8°46 | 26°39 | 23° 8 | 23°53 | 24°38 | n.a. | F 6 |
| S 7 | 14 49 5 | 13° 6'28 | 26° 8 | 25°38 | 28° 9 | 6° 4 | 5°48 | 23°38 | 14°32 | 8°48 | 26°40 | 23° 7 | 23°50 | 24°44 | n.a. | S 7 |
| S 8 | 14 53 1 | 14° 3'46 | 11♉16 | 27°36 | 29°22 | 6°33 | 5°54 | 23°35 | 14°35 | 8°50 | 26°42 | 23° 7 | 23°46 | 24°51 | n.a. | S 8 |
| M 9 | 14 56 58 | 15° 1'04 | 26°18 | 29°33 | 0♉35 | 7° 2 | 6° 0 | 23°32 | 14°39 | 8°52 | 26°43 | 23°D 7 | 23°43 | 24°58 | n.a. | M 9 |
| T 10 | 15 0 54 | 15°58'21 | 11♊ 7 | 1♊27 | 1°48 | 7°31 | 6° 6 | 23°29 | 14°42 | 8°54 | 26°44 | 23° 7 | 23°40 | 25° 4 | n.a. | T 10 |
| W11 | 15 4 51 | 16°55'37 | 25°35 | 3°19 | 3° 2 | 8° 1 | 6°13 | 23°26 | 14°46 | 8°56 | 26°46 | 23° 7 | 23°37 | 25°11 | n.a. | W11 |
| T 12 | 15 8 47 | 17°52'52 | 9♋38 | 5° 8 | 4°15 | 8°31 | 6°19 | 23°23 | 14°49 | 8°59 | 26°47 | 23° 8 | 23°34 | 25°18 | n.a. | T 12 |
| F 13 | 15 12 44 | 18°50'06 | 23°15 | 6°55 | 5°28 | 9° 1 | 6°26 | 23°20 | 14°53 | 9° 1 | 26°49 | 23° 8 | 23°30 | 25°24 | n.a. | F 13 |
| S 14 | 15 16 40 | 19°47'19 | 6♌26 | 8°40 | 6°42 | 9°31 | 6°32 | 23°17 | 14°56 | 9° 3 | 26°50 | 23° 9 | 23°27 | 25°31 | n.a. | S 14 |
| S 15 | 15 20 37 | 20°44'31 | 19°14 | 10°22 | 7°55 | 10° 1 | 6°39 | 23°13 | 15° 0 | 9° 5 | 26°51 | 23°R 9 | 23°24 | 25°38 | n.a. | S 15 |
| M16 | 15 24 34 | 21°41'43 | 1♍42 | 12° 1 | 9° 8 | 10°32 | 6°46 | 23°10 | 15° 3 | 9° 7 | 26°53 | 23° 9 | 23°21 | 25°44 | n.a. | M16 |
| T 17 | 15 28 30 | 22°38'53 | 13°54 | 13°38 | 10°21 | 11° 2 | 6°53 | 23° 6 | 15° 7 | 9° 9 | 26°54 | 23°D 9 | 23°18 | 25°51 | n.a. | T 17 |
| W18 | 15 32 27 | 23°36'03 | 25°54 | 15°12 | 11°35 | 11°33 | 7° 0 | 23° 3 | 15°10 | 9°11 | 26°56 | 23° 9 | 23°15 | 25°58 | n.a. | W18 |
| T 19 | 15 36 23 | 24°33'12 | 7♎47 | 16°44 | 12°48 | 12° 4 | 7° 8 | 22°59 | 15°14 | 9°14 | 26°57 | 23° 9 | 23°11 | 26° 4 | n.a. | T 19 |
| F 20 | 15 40 20 | 25°30'20 | 19°36 | 18°13 | 14° 1 | 12°35 | 7°15 | 22°56 | 15°17 | 9°16 | 26°58 | 23° 9 | 23° 8 | 26°11 | n.a. | F 20 |
| S 21 | 15 44 16 | 26°27'28 | 1♏25 | 19°40 | 15°15 | 13° 7 | 7°23 | 22°52 | 15°21 | 9°18 | 27° 0 | 23° 9 | 23° 5 | 26°18 | n.a. | S 21 |
| S 22 | 15 48 13 | 27°24'35 | 13°16 | 21° 4 | 16°28 | 13°38 | 7°31 | 22°48 | 15°24 | 9°20 | 27° 1 | 23° 9 | 23° 2 | 26°24 | n.a. | S 22 |
| M23 | 15 52 9 | 28°21'42 | 25°13 | 22°25 | 17°42 | 14°10 | 7°38 | 22°45 | 15°28 | 9°22 | 27° 3 | 23°R10 | 22°59 | 26°31 | n.a. | M23 |
| T 24 | 15 56 6 | 29°18'49 | 7♐16 | 23°44 | 18°55 | 14°41 | 7°46 | 22°41 | 15°31 | 9°24 | 27° 4 | 23° 9 | 22°56 | 26°38 | n.a. | T 24 |
| W25 | 16 0 3 | 0♊15'55 | 19°29 | 24°59 | 20° 8 | 15°13 | 7°55 | 22°37 | 15°35 | 9°27 | 27° 6 | 23° 9 | 22°52 | 26°44 | n.a. | W25 |
| T 26 | 16 3 59 | 1°13'02 | 1♑53 | 26°12 | 21°22 | 15°46 | 8° 3 | 22°33 | 15°38 | 9°29 | 27° 7 | 23° 8 | 22°49 | 26°51 | n.a. | T 26 |
| F 27 | 16 7 56 | 2°10'08 | 14°29 | 27°23 | 22°35 | 16°18 | 8°11 | 22°29 | 15°41 | 9°31 | 27° 8 | 23° 7 | 22°46 | 26°58 | n.a. | F 27 |
| S 28 | 16 11 52 | 3° 7'14 | 27°19 | 28°30 | 23°49 | 16°50 | 8°19 | 22°25 | 15°45 | 9°33 | 27°10 | 23° 6 | 22°43 | 27° 4 | n.a. | S 28 |
| S 29 | 16 15 49 | 4° 4'20 | 10♒25 | 29°34 | 25° 2 | 17°23 | 8°28 | 22°21 | 15°48 | 9°36 | 27°11 | 23° 5 | 22°40 | 27°11 | n.a. | S 29 |
| M30 | 16 19 45 | 5° 1'27 | 23°48 | 0♋35 | 26°16 | 17°55 | 8°37 | 22°17 | 15°52 | 9°38 | 27°13 | 23° 4 | 22°36 | 27°18 | n.a. | M30 |
| T 31 | 16 23 42 | 5♊58'33 | 7♓30 | 1♋33 | 27♉29 | 18♌28 | 8♌45 | 22♐13 | 15♉55 | 9♊40 | 27♉14 | 23°D 4 | 22♏33 | 27♎24 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| S 1 | 14n 7 | 15s32 | 4n52 | 16n56 | 1n 2 | 7n 1 | 1s18 | 21n22 | 1n46 | 20n19 | 1n12 | 22s48 | 0n45 | 16n 2 | 0s14 | 20n47 | 1s13 | 12n20 | 7s28 | 18s47 | 19s 1 | 11s50 | | | n.a. |
| M 2 | 14 26 | 11 54 | 5 12 | 17 43 | 1 11 | 7 29 | 1 17 | 21 14 | 1 45 | 20 18 | 1 12 | 22 48 | 0 45 | 16 3 | 0 14 | 20 47 | 1 13 | 12 20 | 7 28 | 18 47 | 19 0 | 11 52 | | | n.a. |
| T 3 | 14 45 | 7 32 | 5 16 | 18 28 | 1 19 | 7 58 | 1 15 | 21 6 | 1 44 | 20 16 | 1 12 | 22 48 | 0 45 | 16 4 | 0 14 | 20 48 | 1 13 | 12 21 | 7 28 | 18 47 | 18 59 | 11 54 | | | n.a. |
| W 4 | 15 3 | 2 39 | 5 1 | 19 12 | 1 27 | 8 27 | 1 14 | 20 58 | 1 42 | 20 15 | 1 11 | 22 48 | 0 45 | 16 5 | 0 14 | 20 48 | 1 13 | 12 21 | 7 27 | 18 46 | 18 58 | 11 55 | | | n.a. |
| T 5 | 15 21 | 2n32 | 4 26 | 19 52 | 1 34 | 8 55 | 1 12 | 20 50 | 1 41 | 20 13 | 1 11 | 22 48 | 0 45 | 16 7 | 0 14 | 20 48 | 1 12 | 12 21 | 7 27 | 18 46 | 18 58 | 11 57 | | | n.a. |
| F 6 | 15 39 | 7 41 | 3 33 | 20 31 | 1 41 | 9 23 | 1 11 | 20 41 | 1 40 | 20 12 | 1 11 | 22 48 | 0 45 | 16 8 | 0 14 | 20 49 | 1 12 | 12 22 | 7 27 | 18 46 | 18 57 | 11 59 | | | n.a. |
| S 7 | 15 57 | 12 26 | 2 24 | 21 7 | 1 47 | 9 51 | 1 9 | 20 33 | 1 38 | 20 10 | 1 11 | 22 48 | 0 45 | 16 9 | 0 14 | 20 49 | 1 12 | 12 22 | 7 27 | 18 45 | 18 56 | 12 1 | | | n.a. |
| S 8 | 16 14 | 16 24 | 1 5 | 21 40 | 1 52 | 10 19 | 1 7 | 20 24 | 1 37 | 20 9 | 1 11 | 22 48 | 0 45 | 16 10 | 0 14 | 20 49 | 1 12 | 12 23 | 7 27 | 18 45 | 18 55 | 12 2 | | | n.a. |
| M 9 | 16 31 | 19 15 | 0s18 | 22 11 | 1 57 | 10 47 | 1 6 | 20 15 | 1 36 | 20 7 | 1 11 | 22 48 | 0 45 | 16 11 | 0 14 | 20 50 | 1 12 | 12 23 | 7 27 | 18 45 | 18 54 | 12 4 | | | n.a. |
| T 10 | 16 48 | 20 44 | 1 38 | 22 39 | 2 1 | 11 14 | 1 4 | 20 7 | 1 34 | 20 5 | 1 11 | 22 48 | 0 45 | 16 12 | 0 14 | 20 50 | 1 12 | 12 23 | 7 27 | 18 45 | 18 54 | 12 6 | | | n.a. |
| W11 | 17 5 | 20 47 | 2 51 | 23 5 | 2 4 | 11 41 | 1 2 | 19 58 | 1 33 | 20 4 | 1 10 | 22 47 | 0 45 | 16 13 | 0 14 | 20 50 | 1 12 | 12 24 | 7 27 | 18 45 | 18 53 | 12 8 | | | n.a. |
| T 12 | 17 21 | 19 31 | 3 51 | 23 28 | 2 6 | 12 8 | 1 0 | 19 48 | 1 32 | 20 2 | 1 10 | 22 47 | 0 45 | 16 14 | 0 14 | 20 51 | 1 12 | 12 24 | 7 27 | 18 46 | 18 52 | 12 9 | | | n.a. |
| F 13 | 17 37 | 17 9 | 4 36 | 23 48 | 2 8 | 12 35 | 0 58 | 19 39 | 1 31 | 20 0 | 1 10 | 22 47 | 0 45 | 16 15 | 0 14 | 20 51 | 1 12 | 12 25 | 7 27 | 18 46 | 18 51 | 12 11 | | | n.a. |
| S 14 | 17 53 | 13 57 | 5 4 | 24 7 | 2 9 | 13 1 | 0 56 | 19 30 | 1 29 | 19 58 | 1 10 | 22 47 | 0 45 | 16 16 | 0 14 | 20 52 | 1 12 | 12 25 | 7 27 | 18 46 | 18 50 | 12 13 | | | n.a. |
| S 15 | 18 8 | 10 12 | 5 17 | 24 23 | 2 9 | 13 27 | 0 54 | 19 20 | 1 28 | 19 56 | 1 10 | 22 47 | 0 45 | 16 17 | 0 14 | 20 52 | 1 12 | 12 25 | 7 27 | 18 46 | 18 50 | 12 15 | | | n.a. |
| M16 | 18 23 | 6 6 | 5 14 | 24 36 | 2 9 | 13 52 | 0 52 | 19 11 | 1 27 | 19 55 | 1 10 | 22 47 | 0 45 | 16 18 | 0 14 | 20 52 | 1 12 | 12 26 | 7 27 | 18 46 | 18 49 | 12 16 | | | n.a. |
| T 17 | 18 38 | 1 50 | 4 57 | 24 48 | 2 8 | 14 18 | 0 50 | 19 1 | 1 26 | 19 53 | 1 10 | 22 47 | 0 45 | 16 19 | 0 14 | 20 53 | 1 12 | 12 26 | 7 26 | 18 46 | 18 48 | 12 18 | | | n.a. |
| W18 | 18 53 | 2s26 | 4 27 | 24 57 | 2 6 | 14 43 | 0 48 | 18 51 | 1 24 | 19 51 | 1 10 | 22 47 | 0 45 | 16 20 | 0 14 | 20 53 | 1 12 | 12 26 | 7 26 | 18 46 | 18 47 | 12 20 | | | n.a. |
| T 19 | 19 7 | 6 35 | 3 46 | 25 5 | 2 3 | 15 7 | 0 46 | 18 41 | 1 23 | 19 49 | 1 9 | 22 46 | 0 45 | 16 21 | 0 14 | 20 53 | 1 12 | 12 27 | 7 26 | 18 46 | 18 46 | 12 22 | | | n.a. |
| F 20 | 19 21 | 10 28 | 2 56 | 25 10 | 2 0 | 15 31 | 0 44 | 18 31 | 1 22 | 19 47 | 1 9 | 22 46 | 0 45 | 16 22 | 0 14 | 20 54 | 1 12 | 12 27 | 7 26 | 18 46 | 18 46 | 12 23 | | | n.a. |
| S 21 | 19 35 | 13 56 | 1 58 | 25 13 | 1 56 | 15 55 | 0 42 | 18 21 | 1 21 | 19 44 | 1 9 | 22 46 | 0 44 | 16 23 | 0 14 | 20 54 | 1 12 | 12 28 | 7 26 | 18 46 | 18 45 | 12 25 | | | n.a. |
| S 22 | 19 48 | 16 52 | 0 55 | 25 15 | 1 51 | 16 19 | 0 40 | 18 11 | 1 20 | 19 42 | 1 9 | 22 46 | 0 44 | 16 24 | 0 14 | 20 54 | 1 12 | 12 28 | 7 26 | 18 46 | 18 44 | 12 27 | | | n.a. |
| M23 | 20 1 | 19 6 | 0n11 | 25 15 | 1 46 | 16 42 | 0 37 | 18 1 | 1 18 | 19 40 | 1 9 | 22 46 | 0 44 | 16 25 | 0 14 | 20 55 | 1 12 | 12 28 | 7 26 | 18 46 | 18 43 | 12 29 | | | n.a. |
| T 24 | 20 13 | 20 29 | 1 18 | 25 13 | 1 40 | 17 5 | 0 35 | 17 50 | 1 17 | 19 38 | 1 9 | 22 46 | 0 44 | 16 26 | 0 14 | 20 55 | 1 12 | 12 29 | 7 26 | 18 46 | 18 42 | 12 30 | | | n.a. |
| W25 | 20 26 | 20 56 | 2 21 | 25 10 | 1 33 | 17 27 | 0 33 | 17 39 | 1 16 | 19 36 | 1 9 | 22 45 | 0 44 | 16 27 | 0 14 | 20 55 | 1 12 | 12 29 | 7 26 | 18 46 | 18 42 | 12 32 | | | n.a. |
| T 26 | 20 38 | 20 23 | 3 19 | 25 5 | 1 26 | 17 49 | 0 30 | 17 29 | 1 15 | 19 34 | 1 9 | 22 45 | 0 44 | 16 28 | 0 14 | 20 56 | 1 12 | 12 29 | 7 26 | 18 46 | 18 41 | 12 34 | | | n.a. |
| F 27 | 20 49 | 18 48 | 4 8 | 24 59 | 1 18 | 18 10 | 0 28 | 17 18 | 1 14 | 19 31 | 1 8 | 22 45 | 0 44 | 16 29 | 0 14 | 20 56 | 1 12 | 12 30 | 7 26 | 18 45 | 18 40 | 12 35 | | | n.a. |
| S 28 | 21 1 | 16 15 | 4 46 | 24 51 | 1 10 | 18 31 | 0 26 | 17 7 | 1 13 | 19 29 | 1 8 | 22 45 | 0 44 | 16 30 | 0 14 | 20 56 | 1 12 | 12 30 | 7 26 | 18 45 | 18 39 | 12 37 | | | n.a. |
| S 29 | 21 12 | 12 52 | 5 9 | 24 43 | 1 1 | 18 51 | 0 24 | 16 56 | 1 11 | 19 27 | 1 8 | 22 45 | 0 44 | 16 31 | 0 14 | 20 57 | 1 12 | 12 30 | 7 26 | 18 45 | 18 38 | 12 39 | | | n.a. |
| M30 | 21 22 | 8 45 | 5 17 | 24 33 | 0 51 | 19 11 | 0 21 | 16 44 | 1 10 | 19 24 | 1 8 | 22 45 | 0 44 | 16 32 | 0 14 | 20 57 | 1 12 | 12 31 | 7 26 | 18 45 | 18 38 | 12 40 | | | n.a. |
| T 31 | 21n32 | 4s 6 | 5n 7 | 24n22 | 0n41 | 19n31 | 0s19 | 16n33 | 1n 9 | 19n22 | 1n 8 | 22s44 | 0n44 | 16n33 | 0s14 | 20n57 | 1s12 | 12n31 | 7s26 | 18s44 | 18s37 | 12s42 | | | n.a. |

Julian Day Number = 1694880.5, Delta T = 03h08m34s
Ecliptic obliquity = 23°42'09, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°04'03, Lahiri = - 4°57'03 Julian Calendar 1 May 73 BCE == Greg. Calendar 29 Apr. 073 BCE

The year -72 astronomical counting style corresponds to year 073 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 73 BCE
# geocentric

## JUNE 73 BCE (-72) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 16 27 39 | 6♊55'40 | 21♓29 | 2♋27 | 28♉43 | 19♌ 1 | 8♌54 | 22°R 8 | 15♉58 | 9♊42 | 27♉16 | 23♏ 4 | 22♏30 | 27♎31 | n.a. | W 1 |
| T 2 | 16 31 35 | 7°52'47 | 5♈47 | 3°18 | 29°56 | 19°34 | 9° 3 | 22♐ 4 | 16° 2 | 9°44 | 27°17 | 23° 5 | 22°27 | 27°38 | n.a. | T 2 |
| F 3 | 16 35 32 | 8°49'54 | 20°20 | 4° 6 | 1♊10 | 20° 7 | 9°12 | 22° 0 | 16° 5 | 9°47 | 27°18 | 23° 6 | 22°24 | 27°44 | n.a. | F 3 |
| S 4 | 16 39 28 | 9°47'02 | 5♉ 4 | 4°50 | 2°23 | 20°41 | 9°21 | 21°56 | 16° 8 | 9°49 | 27°20 | 23° 7 | 22°21 | 27°51 | n.a. | S 4 |
| S 5 | 16 43 25 | 10°44'10 | 19°54 | 5°30 | 3°37 | 21°14 | 9°31 | 21°52 | 16°12 | 9°51 | 27°21 | 23°R 7 | 22°17 | 27°58 | n.a. | S 5 |
| M 6 | 16 47 21 | 11°41'18 | 4♊43 | 6° 7 | 4°50 | 21°48 | 9°40 | 21°47 | 16°15 | 9°53 | 27°23 | 23° 7 | 22°14 | 28° 4 | n.a. | M 6 |
| T 7 | 16 51 18 | 12°38'27 | 19°23 | 6°39 | 6° 4 | 22°22 | 9°50 | 21°43 | 16°18 | 9°56 | 27°24 | 23° 6 | 22°11 | 28°11 | n.a. | T 7 |
| W 8 | 16 55 14 | 13°35'35 | 3♋48 | 7° 8 | 7°18 | 22°56 | 9°59 | 21°39 | 16°21 | 9°58 | 27°25 | 23° 4 | 22° 8 | 28°18 | n.a. | W 8 |
| T 9 | 16 59 11 | 14°32'44 | 17°52 | 7°32 | 8°31 | 23°30 | 10° 9 | 21°34 | 16°25 | 10° 0 | 27°27 | 23° 1 | 22° 5 | 28°24 | n.a. | T 9 |
| F 10 | 17 3 8 | 15°29'53 | 1♌32 | 7°51 | 9°45 | 24° 4 | 10°19 | 21°30 | 16°28 | 10° 2 | 27°28 | 22°58 | 22° 2 | 28°31 | n.a. | F 10 |
| S 11 | 17 7 4 | 16°27'02 | 14°47 | 8° 6 | 10°59 | 24°38 | 10°28 | 21°25 | 16°31 | 10° 5 | 27°29 | 22°55 | 21°58 | 28°37 | n.a. | S 11 |
| S 12 | 17 11 1 | 17°24'11 | 27°38 | 8°17 | 12°12 | 25°13 | 10°38 | 21°21 | 16°34 | 10° 7 | 27°31 | 22°53 | 21°55 | 28°44 | n.a. | S 12 |
| M13 | 17 14 57 | 18°21'20 | 10♍ 8 | 8°22 | 13°26 | 25°47 | 10°48 | 21°17 | 16°37 | 10° 9 | 27°32 | 22°52 | 21°52 | 28°51 | n.a. | M13 |
| T 14 | 17 18 54 | 19°18'29 | 22°21 | 8°R23 | 14°40 | 26°22 | 10°59 | 21°12 | 16°40 | 10°11 | 27°33 | 22°D51 | 21°49 | 28°57 | n.a. | T 14 |
| W15 | 17 22 50 | 20°15'38 | 4♎21 | 8°19 | 15°54 | 26°57 | 11° 9 | 21° 8 | 16°43 | 10°13 | 27°35 | 22°52 | 21°46 | 29° 4 | n.a. | W15 |
| T 16 | 17 26 47 | 21°12'47 | 16°13 | 8°11 | 17° 7 | 27°32 | 11°19 | 21° 3 | 16°47 | 10°16 | 27°36 | 22°54 | 21°42 | 29°11 | n.a. | T 16 |
| F 17 | 17 30 43 | 22° 9'57 | 28° 1 | 7°57 | 18°21 | 28° 7 | 11°29 | 20°59 | 16°50 | 10°18 | 27°37 | 22°55 | 21°39 | 29°17 | n.a. | F 17 |
| S 18 | 17 34 40 | 23° 7'07 | 9♏51 | 7°39 | 19°35 | 28°42 | 11°40 | 20°54 | 16°53 | 10°20 | 27°39 | 22°57 | 21°36 | 29°24 | n.a. | S 18 |
| S 19 | 17 38 37 | 24° 4'17 | 21°47 | 7°17 | 20°49 | 29°17 | 11°50 | 20°50 | 16°56 | 10°22 | 27°40 | 22°R57 | 21°33 | 29°31 | n.a. | S 19 |
| M20 | 17 42 33 | 25° 1'28 | 3♐51 | 6°50 | 22° 2 | 29°53 | 12° 1 | 20°46 | 16°59 | 10°24 | 27°41 | 22°57 | 21°30 | 29°37 | n.a. | M20 |
| T 21 | 17 46 30 | 25°58'39 | 16° 6 | 6°19 | 23°16 | 0♍28 | 12°12 | 20°41 | 17° 1 | 10°27 | 27°43 | 22°55 | 21°27 | 29°44 | n.a. | T 21 |
| W22 | 17 50 26 | 26°55'51 | 28°34 | 5°45 | 24°30 | 1° 4 | 12°22 | 20°37 | 17° 4 | 10°29 | 27°44 | 22°51 | 21°23 | 29°51 | n.a. | W22 |
| T 23 | 17 54 23 | 27°53'04 | 11♑16 | 5° 8 | 25°44 | 1°39 | 12°33 | 20°32 | 17° 7 | 10°31 | 27°45 | 22°46 | 21°20 | 29°57 | n.a. | T 23 |
| F 24 | 17 58 19 | 28°50'17 | 24°12 | 4°28 | 26°58 | 2°15 | 12°44 | 20°28 | 17°10 | 10°33 | 27°46 | 22°41 | 21°17 | 0♏ 4 | n.a. | F 24 |
| S 25 | 18 2 16 | 29°47'32 | 7♒22 | 3°47 | 28°12 | 2°51 | 12°55 | 20°24 | 17°13 | 10°35 | 27°48 | 22°35 | 21°14 | 0°11 | n.a. | S 25 |
| S 26 | 18 6 12 | 0♋44'47 | 20°45 | 3° 4 | 29°26 | 3°27 | 13° 6 | 20°19 | 17°16 | 10°37 | 27°49 | 22°29 | 21°11 | 0°17 | n.a. | S 26 |
| M27 | 18 10 9 | 1°42'03 | 4♓21 | 2°21 | 0♋39 | 4° 3 | 13°17 | 20°15 | 17°18 | 10°39 | 27°50 | 22°25 | 21° 8 | 0°24 | n.a. | M27 |
| T 28 | 18 14 6 | 2°39'20 | 18° 8 | 1°38 | 1°53 | 4°40 | 13°29 | 20°11 | 17°21 | 10°42 | 27°51 | 22°22 | 21° 4 | 0°31 | n.a. | T 28 |
| W29 | 18 18 2 | 3°36'39 | 2♈ 5 | 0°56 | 3° 7 | 5°16 | 13°40 | 20° 7 | 17°24 | 10°44 | 27°53 | 22°D22 | 21° 1 | 0°37 | n.a. | W29 |
| T 30 | 18 21 59 | 4♋33'58 | 16♈13 | 0♋16 | 4♋21 | 5♍53 | 13♌51 | 20♐ 2 | 17♉27 | 10♊46 | 27♉54 | 22♏22 | 20♏58 | 0♏44 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 21n42 | 0n51 | 4n39 | 24n11 | 0n30 | 19n49 | 0s16 | 16n22 | 1n 8 | 19n19 | 1n 8 | 22s44 | 0n44 | 16n34 | 0s14 | 20n58 | 1s12 | 12n31 | 7s26 | 18s45 | 18s36 | 12s44 | | n.a. |
| T 2 | 21 52 | 5 53 | 3 53 | 23 58 | 0 19 | 20 8 | 0 14 | 16 10 | 1 7 | 19 17 | 1 8 | 22 44 | 0 44 | 16 35 | 0 14 | 20 58 | 1 12 | 12 32 | 7 26 | 18 45 | 18 35 | 12 46 | | n.a. |
| F 3 | 22 1 | 10 40 | 2 52 | 23 45 | 0 7 | 20 26 | 0 12 | 15 58 | 1 6 | 19 14 | 1 8 | 22 44 | 0 44 | 16 36 | 0 14 | 20 59 | 1 12 | 12 32 | 7 26 | 18 45 | 18 34 | 12 47 | | n.a. |
| S 4 | 22 10 | 14 54 | 1 38 | 23 31 | 0s 5 | 20 43 | 0 9 | 15 47 | 1 5 | 19 12 | 1 8 | 22 44 | 0 44 | 16 37 | 0 14 | 20 59 | 1 12 | 12 32 | 7 26 | 18 45 | 18 33 | 12 49 | | n.a. |
| S 5 | 22 18 | 18 12 | 0 18 | 23 17 | 0 18 | 21 0 | 0 7 | 15 35 | 1 4 | 19 9 | 1 8 | 22 43 | 0 44 | 16 38 | 0 14 | 20 59 | 1 12 | 12 33 | 7 26 | 18 45 | 18 33 | 12 51 | | n.a. |
| M 6 | 22 26 | 20 16 | 1s 4 | 23 2 | 0 32 | 21 16 | 0 5 | 15 23 | 1 3 | 19 6 | 1 7 | 22 43 | 0 43 | 16 39 | 0 14 | 21 0 | 1 12 | 12 33 | 7 26 | 18 45 | 18 32 | 12 52 | | n.a. |
| T 7 | 22 34 | 20 57 | 2 20 | 22 47 | 0 45 | 21 31 | 0 2 | 15 11 | 1 1 | 19 4 | 1 7 | 22 43 | 0 43 | 16 40 | 0 14 | 21 0 | 1 12 | 12 33 | 7 26 | 18 45 | 18 31 | 12 54 | | n.a. |
| W 8 | 22 41 | 20 13 | 3 26 | 22 31 | 0 59 | 21 46 | 0n 0 | 14 58 | 1 0 | 19 1 | 1 7 | 22 43 | 0 43 | 16 41 | 0 14 | 21 0 | 1 12 | 12 34 | 7 26 | 18 45 | 18 30 | 12 56 | | n.a. |
| T 9 | 22 48 | 18 14 | 4 18 | 22 16 | 1 14 | 22 1 | 0 3 | 14 46 | 0 59 | 18 58 | 1 7 | 22 43 | 0 43 | 16 42 | 0 14 | 21 1 | 1 12 | 12 34 | 7 26 | 18 44 | 18 29 | 12 57 | | n.a. |
| F 10 | 22 54 | 15 16 | 4 53 | 22 0 | 1 28 | 22 14 | 0 5 | 14 34 | 0 58 | 18 55 | 1 7 | 22 42 | 0 43 | 16 43 | 0 14 | 21 1 | 1 12 | 12 34 | 7 26 | 18 43 | 18 28 | 12 59 | | n.a. |
| S 11 | 23 0 | 11 37 | 5 12 | 21 44 | 1 43 | 22 27 | 0 7 | 14 21 | 0 57 | 18 53 | 1 7 | 22 42 | 0 43 | 16 44 | 0 14 | 21 1 | 1 12 | 12 35 | 7 26 | 18 42 | 18 28 | 13 1 | | n.a. |
| S 12 | 23 6 | 7 31 | 5 14 | 21 29 | 1 58 | 22 40 | 0 10 | 14 8 | 0 56 | 18 50 | 1 7 | 22 42 | 0 43 | 16 45 | 0 14 | 21 2 | 1 12 | 12 35 | 7 26 | 18 42 | 18 27 | 13 2 | | n.a. |
| M13 | 23 11 | 3 13 | 5 1 | 21 13 | 2 13 | 22 52 | 0 12 | 13 56 | 0 55 | 18 47 | 1 7 | 22 42 | 0 43 | 16 46 | 0 14 | 21 2 | 1 12 | 12 35 | 7 26 | 18 41 | 18 26 | 13 4 | | n.a. |
| T 14 | 23 16 | 1s 7 | 4 34 | 20 58 | 2 28 | 23 3 | 0 14 | 13 43 | 0 54 | 18 44 | 1 7 | 22 42 | 0 43 | 16 47 | 0 14 | 21 2 | 1 12 | 12 35 | 7 26 | 18 41 | 18 25 | 13 6 | | n.a. |
| W15 | 23 20 | 5 21 | 3 56 | 20 44 | 2 43 | 23 13 | 0 17 | 13 30 | 0 53 | 18 41 | 1 7 | 22 41 | 0 43 | 16 48 | 0 14 | 21 3 | 1 12 | 12 36 | 7 26 | 18 42 | 18 24 | 13 7 | | n.a. |
| T 16 | 23 24 | 9 20 | 3 8 | 20 30 | 2 57 | 23 23 | 0 19 | 13 17 | 0 52 | 18 38 | 1 7 | 22 41 | 0 43 | 16 48 | 0 14 | 21 3 | 1 12 | 12 36 | 7 26 | 18 42 | 18 23 | 13 9 | | n.a. |
| F 17 | 23 28 | 12 57 | 2 13 | 20 17 | 3 11 | 23 32 | 0 21 | 13 3 | 0 51 | 18 35 | 1 6 | 22 41 | 0 43 | 16 49 | 0 14 | 21 3 | 1 12 | 12 36 | 7 26 | 18 42 | 18 23 | 13 10 | | n.a. |
| S 18 | 23 31 | 16 3 | 1 11 | 20 4 | 3 25 | 23 41 | 0 24 | 12 50 | 0 50 | 18 32 | 1 6 | 22 41 | 0 43 | 16 50 | 0 14 | 21 3 | 1 12 | 12 36 | 7 26 | 18 43 | 18 22 | 13 12 | | n.a. |
| S 19 | 23 34 | 18 31 | 0 6 | 19 52 | 3 38 | 23 49 | 0 26 | 12 37 | 0 49 | 18 29 | 1 6 | 22 41 | 0 42 | 16 51 | 0 14 | 21 4 | 1 12 | 12 37 | 7 26 | 18 43 | 18 21 | 13 14 | | n.a. |
| M20 | 23 36 | 20 11 | 0n59 | 19 41 | 3 51 | 23 56 | 0 28 | 12 23 | 0 48 | 18 26 | 1 6 | 22 40 | 0 42 | 16 52 | 0 14 | 21 4 | 1 12 | 12 37 | 7 26 | 18 43 | 18 20 | 13 15 | | n.a. |
| T 21 | 23 38 | 20 55 | 2 3 | 19 31 | 4 2 | 24 2 | 0 30 | 12 10 | 0 47 | 18 23 | 1 6 | 22 40 | 0 42 | 16 53 | 0 14 | 21 4 | 1 12 | 12 37 | 7 26 | 18 42 | 18 19 | 13 17 | | n.a. |
| W22 | 23 40 | 20 39 | 3 2 | 19 23 | 4 12 | 24 8 | 0 33 | 11 56 | 0 46 | 18 20 | 1 6 | 22 40 | 0 42 | 16 54 | 0 14 | 21 5 | 1 12 | 12 37 | 7 26 | 18 41 | 18 18 | 13 19 | | n.a. |
| T 23 | 23 41 | 19 21 | 3 53 | 19 15 | 4 21 | 24 13 | 0 35 | 11 42 | 0 45 | 18 17 | 1 6 | 22 40 | 0 42 | 16 54 | 0 14 | 21 5 | 1 12 | 12 38 | 7 26 | 18 40 | 18 18 | 13 20 | | n.a. |
| F 24 | 23 42 | 17 1 | 4 33 | 19 9 | 4 29 | 24 17 | 0 37 | 11 28 | 0 44 | 18 14 | 1 6 | 22 39 | 0 42 | 16 55 | 0 14 | 21 5 | 1 12 | 12 38 | 7 26 | 18 39 | 18 17 | 13 22 | | n.a. |
| S 25 | 23 42 | 13 48 | 5 0 | 19 4 | 4 35 | 24 20 | 0 39 | 11 14 | 0 43 | 18 10 | 1 6 | 22 39 | 0 42 | 16 56 | 0 14 | 21 6 | 1 12 | 12 38 | 7 26 | 18 37 | 18 16 | 13 23 | | n.a. |
| S 26 | 23 42 | 9 50 | 5 10 | 19 0 | 4 40 | 24 23 | 0 41 | 11 0 | 0 42 | 18 7 | 1 6 | 22 39 | 0 42 | 16 57 | 0 14 | 21 6 | 1 12 | 12 38 | 7 26 | 18 36 | 18 15 | 13 25 | | n.a. |
| M27 | 23 41 | 5 18 | 5 4 | 18 58 | 4 43 | 24 25 | 0 43 | 10 46 | 0 41 | 18 4 | 1 6 | 22 39 | 0 42 | 16 58 | 0 14 | 21 6 | 1 12 | 12 39 | 7 26 | 18 35 | 18 14 | 13 27 | | n.a. |
| T 28 | 23 41 | 0 27 | 4 40 | 18 57 | 4 44 | 24 27 | 0 45 | 10 32 | 0 40 | 18 0 | 1 6 | 22 39 | 0 42 | 16 58 | 0 14 | 21 7 | 1 12 | 12 39 | 7 26 | 18 34 | 18 13 | 13 28 | | n.a. |
| W29 | 23 39 | 4n29 | 3 59 | 18 58 | 4 44 | 24 27 | 0 47 | 10 17 | 0 39 | 17 57 | 1 6 | 22 38 | 0 41 | 16 59 | 0 14 | 21 7 | 1 12 | 12 39 | 7 26 | 18 34 | 18 13 | 13 30 | | n.a. |
| T 30 | 23n37 | 9n16 | 3n 4 | 19n 0 | 4s42 | 24n27 | 0n49 | 10n 3 | 0n38 | 17n54 | 1n 6 | 22s38 | 0n41 | 17n 0 | 0s14 | 21n 7 | 1s12 | 12n39 | 7s26 | 18s34 | 18s12 | 13s31 | | n.a. |

Julian Day Number = 1694911.5, Delta T = 03h08m33s
Ecliptic obliquity = 23°42'08, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°03'59, Lahiri = - 4°56'58 Julian Calendar 1 June 73 BCE == Greg. Calendar 30 May 073 BCE

The year -72 astronomical counting style corresponds to year 073 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 73 BCE
# geocentric

## JULY 73 BCE (-72) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 18 25 55 | 5♋31'19 | 0♉29 | 29°R39 | 5♋35 | 6♍29 | 14♎ 3 | 19°R58 | 17♉29 | 10♊48 | 27♉55 | 22♏23 | 20♏55 | 0♏51 | n.a. | F 1 |
| S 2 | 18 29 52 | 6°28'41 | 14°51 | 29♊ 5 | 6°49 | 7° 6 | 14°14 | 19♐54 | 17°32 | 10°50 | 27°56 | 22°24 | 20°52 | 0°57 | n.a. | S 2 |
| S 3 | 18 33 48 | 7°26'05 | 29°17 | 28°35 | 8° 3 | 7°43 | 14°26 | 19°50 | 17°34 | 10°52 | 27°57 | 22°R24 | 20°48 | 1° 4 | n.a. | S 3 |
| M 4 | 18 37 45 | 8°23'30 | 13♊42 | 28°10 | 9°17 | 8°20 | 14°37 | 19°46 | 17°37 | 10°54 | 27°58 | 22°22 | 20°45 | 1°11 | n.a. | M 4 |
| T 5 | 18 41 42 | 9°20'56 | 28° 2 | 27°50 | 10°32 | 8°57 | 14°49 | 19°42 | 17°39 | 10°56 | 27°59 | 22°19 | 20°42 | 1°17 | n.a. | T 5 |
| W 6 | 18 45 38 | 10°18'23 | 12♋11 | 27°36 | 11°46 | 9°34 | 15° 0 | 19°38 | 17°42 | 10°58 | 28° 1 | 22°13 | 20°39 | 1°24 | n.a. | W 6 |
| T 7 | 18 49 35 | 11°15'51 | 26° 4 | 27°27 | 13° 0 | 10°11 | 15°12 | 19°34 | 17°44 | 11° 0 | 28° 2 | 22° 5 | 20°36 | 1°31 | n.a. | T 7 |
| F 8 | 18 53 31 | 12°13'20 | 9♌38 | 27°D25 | 14°14 | 10°48 | 15°24 | 19°30 | 17°47 | 11° 2 | 28° 3 | 21°57 | 20°33 | 1°37 | n.a. | F 8 |
| S 9 | 18 57 28 | 13°10'50 | 22°51 | 27°29 | 15°28 | 11°26 | 15°36 | 19°26 | 17°49 | 11° 4 | 28° 4 | 21°49 | 20°29 | 1°44 | n.a. | S 9 |
| S 10 | 19 1 24 | 14° 8'22 | 5♍41 | 27°40 | 16°42 | 12° 3 | 15°48 | 19°22 | 17°51 | 11° 6 | 28° 5 | 21°42 | 20°26 | 1°51 | n.a. | S 10 |
| M11 | 19 5 21 | 15° 5'54 | 18°11 | 27°58 | 17°56 | 12°41 | 16° 0 | 19°18 | 17°54 | 11° 8 | 28° 6 | 21°36 | 20°23 | 1°57 | n.a. | M11 |
| T 12 | 19 9 17 | 16° 3'27 | 0♎24 | 28°23 | 19°11 | 13°18 | 16°12 | 19°15 | 17°56 | 11°10 | 28° 7 | 21°33 | 20°20 | 2° 4 | n.a. | T 12 |
| W13 | 19 13 14 | 17° 1'01 | 12°24 | 28°55 | 20°25 | 13°56 | 16°24 | 19°11 | 17°58 | 11°12 | 28° 8 | 21°D31 | 20°17 | 2°10 | n.a. | W13 |
| T 14 | 19 17 11 | 17°58'36 | 24°16 | 29°33 | 21°39 | 14°34 | 16°36 | 19° 7 | 18° 0 | 11°13 | 28° 9 | 21°31 | 20°14 | 2°17 | n.a. | T 14 |
| F 15 | 19 21 7 | 18°56'13 | 6♏ 5 | 0♋18 | 22°53 | 15°12 | 16°48 | 19° 4 | 18° 2 | 11°15 | 28°10 | 21°32 | 20°10 | 2°24 | n.a. | F 15 |
| S 16 | 19 25 4 | 19°53'50 | 17°56 | 1°10 | 24° 7 | 15°50 | 17° 0 | 19° 0 | 18° 4 | 11°17 | 28°11 | 21°R33 | 20° 7 | 2°30 | n.a. | S 16 |
| S 17 | 19 29 0 | 20°51'29 | 29°55 | 2° 9 | 25°22 | 16°29 | 17°13 | 18°57 | 18° 6 | 11°19 | 28°12 | 21°33 | 20° 4 | 2°37 | n.a. | S 17 |
| M18 | 19 32 57 | 21°49'09 | 12♐ 5 | 3°13 | 26°36 | 17° 7 | 17°25 | 18°54 | 18° 8 | 11°21 | 28°13 | 21°31 | 20° 1 | 2°44 | n.a. | M18 |
| T 19 | 19 36 53 | 22°46'50 | 24°31 | 4°24 | 27°50 | 17°45 | 17°37 | 18°50 | 18°10 | 11°23 | 28°14 | 21°26 | 19°58 | 2°50 | n.a. | T 19 |
| W20 | 19 40 50 | 23°44'33 | 7♑13 | 5°41 | 29° 4 | 18°24 | 17°50 | 18°47 | 18°12 | 11°24 | 28°15 | 21°19 | 19°54 | 2°57 | n.a. | W20 |
| T 21 | 19 44 46 | 24°42'17 | 20°15 | 7° 3 | 0♌19 | 19° 2 | 18° 2 | 18°44 | 18°14 | 11°26 | 28°15 | 21°10 | 19°51 | 3° 4 | n.a. | T 21 |
| F 22 | 19 48 43 | 25°40'02 | 3♒34 | 8°30 | 1°33 | 19°41 | 18°14 | 18°41 | 18°16 | 11°28 | 28°16 | 21° 0 | 19°48 | 3°10 | n.a. | F 22 |
| S 23 | 19 52 40 | 26°37'49 | 17° 9 | 10° 2 | 2°47 | 20°20 | 18°27 | 18°38 | 18°18 | 11°30 | 28°17 | 20°49 | 19°45 | 3°17 | n.a. | S 23 |
| S 24 | 19 56 36 | 27°35'37 | 0♓56 | 11°39 | 4° 2 | 20°58 | 18°39 | 18°35 | 18°19 | 11°31 | 28°18 | 20°40 | 19°42 | 3°24 | n.a. | S 24 |
| M25 | 20 0 33 | 28°33'28 | 14°53 | 13°20 | 5°16 | 21°37 | 18°52 | 18°32 | 18°21 | 11°33 | 28°19 | 20°31 | 19°39 | 3°30 | n.a. | M25 |
| T 26 | 20 4 29 | 29°31'20 | 28°56 | 15° 4 | 6°30 | 22°16 | 19° 5 | 18°29 | 18°23 | 11°35 | 28°20 | 20°26 | 19°35 | 3°37 | n.a. | T 26 |
| W27 | 20 8 26 | 0♌29'14 | 13♈ 2 | 16°51 | 7°45 | 22°56 | 19°17 | 18°27 | 18°24 | 11°36 | 28°20 | 20°22 | 19°32 | 3°44 | n.a. | W27 |
| T 28 | 20 12 22 | 1°27'10 | 27°10 | 18°41 | 8°59 | 23°35 | 19°30 | 18°24 | 18°26 | 11°38 | 28°21 | 20°D21 | 19°29 | 3°50 | n.a. | T 28 |
| F 29 | 20 16 19 | 2°25'08 | 11♉17 | 20°33 | 10°13 | 24°14 | 19°43 | 18°21 | 18°27 | 11°39 | 28°22 | 20°21 | 19°26 | 3°57 | n.a. | F 29 |
| S 30 | 20 20 15 | 3°23'08 | 25°23 | 22°27 | 11°28 | 24°53 | 19°55 | 18°19 | 18°29 | 11°41 | 28°23 | 20°R21 | 19°23 | 4° 4 | n.a. | S 30 |
| S 31 | 20 24 12 | 4♌21'10 | 9♊28 | 24♋22 | 12♌42 | 25♍33 | 20♌ 8 | 18♐16 | 18♉30 | 11♊42 | 28♉23 | 20♏20 | 19♏20 | 4♏10 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 23n35 | 13n34 | 1n56 | 19n 4 | 4s38 | 24n26 | 0n51 | 9n48 | 0n37 | 17n50 | 1n 6 | 22s38 | 0n41 | 17n 1 | 0s14 | 21n 7 | 1s12 | 12n39 | 7s26 | 18s34 | 18s11 | 13s33 | | n.a. |
| S 2 | 23 32 | 17 7 | 0 41 | 19 10 | 4 32 | 24 24 | 0 53 | 9 34 | 0 36 | 17 47 | 1 5 | 22 38 | 0 41 | 17 1 | 0 14 | 21 8 | 1 12 | 12 40 | 7 27 | 18 34 | 18 10 | 13 35 | | n.a. |
| S 3 | 23 29 | 19 37 | 0s37 | 19 16 | 4 25 | 24 22 | 0 55 | 9 19 | 0 35 | 17 43 | 1 5 | 22 38 | 0 41 | 17 2 | 0 14 | 21 8 | 1 12 | 12 40 | 7 27 | 18 34 | 18 9 | 13 36 | | n.a. |
| M 4 | 23 26 | 20 50 | 1 53 | 19 25 | 4 17 | 24 19 | 0 57 | 9 4 | 0 34 | 17 40 | 1 5 | 22 37 | 0 41 | 17 3 | 0 14 | 21 8 | 1 12 | 12 40 | 7 27 | 18 34 | 18 8 | 13 38 | | n.a. |
| T 5 | 23 22 | 20 41 | 3 0 | 19 34 | 4 7 | 24 15 | 0 58 | 8 49 | 0 33 | 17 37 | 1 5 | 22 37 | 0 41 | 17 4 | 0 14 | 21 9 | 1 12 | 12 40 | 7 27 | 18 33 | 18 7 | 13 39 | | n.a. |
| W 6 | 23 18 | 19 13 | 3 56 | 19 45 | 3 56 | 24 10 | 1 0 | 8 34 | 0 32 | 17 33 | 1 5 | 22 37 | 0 41 | 17 4 | 0 14 | 21 9 | 1 12 | 12 40 | 7 27 | 18 31 | 18 7 | 13 41 | | n.a. |
| T 7 | 23 13 | 16 38 | 4 36 | 19 57 | 3 43 | 24 5 | 1 2 | 8 19 | 0 31 | 17 29 | 1 5 | 22 37 | 0 41 | 17 5 | 0 14 | 21 9 | 1 12 | 12 41 | 7 27 | 18 29 | 18 6 | 13 42 | | n.a. |
| F 8 | 23 8 | 13 13 | 5 0 | 20 10 | 3 30 | 23 59 | 1 3 | 8 4 | 0 31 | 17 26 | 1 5 | 22 37 | 0 40 | 17 6 | 0 14 | 21 9 | 1 12 | 12 41 | 7 27 | 18 27 | 18 5 | 13 44 | | n.a. |
| S 9 | 23 2 | 9 13 | 5 7 | 20 25 | 3 16 | 23 52 | 1 5 | 7 49 | 0 30 | 17 22 | 1 5 | 22 36 | 0 40 | 17 6 | 0 14 | 21 10 | 1 12 | 12 41 | 7 27 | 18 25 | 18 4 | 13 46 | | n.a. |
| S 10 | 22 57 | 4 55 | 4 58 | 20 39 | 3 1 | 23 45 | 1 6 | 7 33 | 0 29 | 17 19 | 1 5 | 22 36 | 0 40 | 17 7 | 0 14 | 21 10 | 1 12 | 12 41 | 7 27 | 18 23 | 18 3 | 13 47 | | n.a. |
| M11 | 22 50 | 0 31 | 4 35 | 20 55 | 2 46 | 23 36 | 1 8 | 7 18 | 0 28 | 17 15 | 1 5 | 22 36 | 0 40 | 17 8 | 0 14 | 21 10 | 1 12 | 12 41 | 7 27 | 18 22 | 18 2 | 13 49 | | n.a. |
| T 12 | 22 43 | 3s49 | 4 0 | 21 11 | 2 31 | 23 27 | 1 9 | 7 3 | 0 27 | 17 11 | 1 5 | 22 36 | 0 40 | 17 8 | 0 14 | 21 10 | 1 12 | 12 41 | 7 27 | 18 21 | 18 1 | 13 50 | | n.a. |
| W13 | 22 36 | 7 56 | 3 14 | 21 27 | 2 15 | 23 18 | 1 11 | 6 47 | 0 26 | 17 8 | 1 5 | 22 36 | 0 40 | 17 9 | 0 14 | 21 11 | 1 12 | 12 42 | 7 27 | 18 21 | 18 1 | 13 52 | | n.a. |
| T 14 | 22 29 | 11 41 | 2 21 | 21 43 | 1 59 | 23 7 | 1 12 | 6 31 | 0 25 | 17 4 | 1 5 | 22 35 | 0 40 | 17 9 | 0 14 | 21 11 | 1 12 | 12 42 | 7 27 | 18 21 | 18 0 | 13 53 | | n.a. |
| F 15 | 22 21 | 14 59 | 1 22 | 21 59 | 1 43 | 22 56 | 1 13 | 6 16 | 0 24 | 17 0 | 1 5 | 22 35 | 0 40 | 17 10 | 0 14 | 21 11 | 1 12 | 12 42 | 7 27 | 18 21 | 17 59 | 13 55 | | n.a. |
| S 16 | 22 13 | 17 40 | 0 19 | 22 15 | 1 27 | 22 45 | 1 14 | 6 0 | 0 23 | 16 56 | 1 5 | 22 35 | 0 39 | 17 11 | 0 14 | 21 11 | 1 12 | 12 42 | 7 27 | 18 21 | 17 58 | 13 56 | | n.a. |
| S 17 | 22 4 | 19 38 | 0n45 | 22 30 | 1 11 | 22 32 | 1 16 | 5 44 | 0 22 | 16 53 | 1 5 | 22 35 | 0 39 | 17 11 | 0 14 | 21 12 | 1 12 | 12 42 | 7 28 | 18 21 | 17 57 | 13 58 | | n.a. |
| M18 | 21 55 | 20 43 | 1 48 | 22 44 | 0 55 | 22 19 | 1 17 | 5 28 | 0 22 | 16 49 | 1 5 | 22 35 | 0 39 | 17 12 | 0 14 | 21 12 | 1 12 | 12 42 | 7 28 | 18 20 | 17 56 | 13 59 | | n.a. |
| T 19 | 21 45 | 20 49 | 2 47 | 22 57 | 0 40 | 22 5 | 1 18 | 5 12 | 0 21 | 16 45 | 1 5 | 22 35 | 0 39 | 17 12 | 0 14 | 21 12 | 1 12 | 12 42 | 7 28 | 18 19 | 17 55 | 14 1 | | n.a. |
| W20 | 21 35 | 19 52 | 3 39 | 23 9 | 0 26 | 21 51 | 1 19 | 4 56 | 0 20 | 16 41 | 1 5 | 22 35 | 0 39 | 17 13 | 0 14 | 21 12 | 1 12 | 12 42 | 7 28 | 18 17 | 17 55 | 14 2 | | n.a. |
| T 21 | 21 25 | 17 52 | 4 21 | 23 19 | 0 11 | 21 36 | 1 20 | 4 40 | 0 19 | 16 37 | 1 5 | 22 34 | 0 39 | 17 13 | 0 14 | 21 13 | 1 12 | 12 42 | 7 28 | 18 15 | 17 54 | 14 4 | | n.a. |
| F 22 | 21 15 | 14 53 | 4 49 | 23 28 | 0n 2 | 21 20 | 1 20 | 4 24 | 0 18 | 16 33 | 1 5 | 22 34 | 0 39 | 17 14 | 0 14 | 21 13 | 1 12 | 12 43 | 7 28 | 18 12 | 17 53 | 14 5 | | n.a. |
| S 23 | 21 4 | 11 4 | 5 2 | 23 34 | 0 15 | 21 4 | 1 21 | 4 8 | 0 17 | 16 29 | 1 5 | 22 34 | 0 39 | 17 14 | 0 14 | 21 13 | 1 12 | 12 43 | 7 28 | 18 9 | 17 52 | 14 7 | | n.a. |
| S 24 | 20 52 | 6 37 | 4 58 | 23 38 | 0 27 | 20 47 | 1 22 | 3 52 | 0 16 | 16 25 | 1 5 | 22 34 | 0 38 | 17 15 | 0 14 | 21 13 | 1 12 | 12 43 | 7 28 | 18 7 | 17 51 | 14 8 | | n.a. |
| M25 | 20 41 | 1 46 | 4 36 | 23 40 | 0 39 | 20 30 | 1 23 | 3 36 | 0 15 | 16 21 | 1 5 | 22 34 | 0 38 | 17 15 | 0 14 | 21 13 | 1 12 | 12 43 | 7 28 | 18 5 | 17 50 | 14 10 | | n.a. |
| T 26 | 20 28 | 3n12 | 3 58 | 23 39 | 0 49 | 20 12 | 1 23 | 3 19 | 0 15 | 16 17 | 1 5 | 22 34 | 0 38 | 17 16 | 0 14 | 21 14 | 1 12 | 12 43 | 7 28 | 18 3 | 17 49 | 14 11 | | n.a. |
| W27 | 20 16 | 8 2 | 3 5 | 23 36 | 0 59 | 19 53 | 1 24 | 3 3 | 0 14 | 16 13 | 1 5 | 22 34 | 0 38 | 17 16 | 0 14 | 21 14 | 1 12 | 12 43 | 7 29 | 18 2 | 17 49 | 14 13 | | n.a. |
| T 28 | 20 3 | 12 26 | 2 0 | 23 30 | 1 8 | 19 34 | 1 24 | 2 46 | 0 13 | 16 9 | 1 5 | 22 34 | 0 38 | 17 17 | 0 14 | 21 14 | 1 12 | 12 43 | 7 29 | 18 2 | 17 48 | 14 14 | | n.a. |
| F 29 | 19 50 | 16 8 | 0 48 | 23 21 | 1 15 | 19 14 | 1 25 | 2 30 | 0 12 | 16 5 | 1 5 | 22 33 | 0 38 | 17 17 | 0 14 | 21 14 | 1 12 | 12 43 | 7 29 | 18 2 | 17 47 | 14 16 | | n.a. |
| S 30 | 19 37 | 18 53 | 0s27 | 23 10 | 1 22 | 18 54 | 1 25 | 2 13 | 0 11 | 16 1 | 1 5 | 22 33 | 0 38 | 17 17 | 0 14 | 21 14 | 1 12 | 12 43 | 7 29 | 18 2 | 17 46 | 14 17 | | n.a. |
| S 31 | 19n23 | 20n28 | 1s40 | 22n56 | 1n28 | 18n33 | 1n25 | 1n57 | 0n10 | 15n57 | 1n 5 | 22s33 | 0n38 | 17n18 | 0s14 | 21n15 | 1s12 | 12n43 | 7s29 | 18s 2 | 17s45 | 14s19 | | n.a. |

Julian Day Number = 1694941.5, Delta T = 03h08m32s
Ecliptic obliquity = 23°42'07, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°03'55, Lahiri = - 4°56'54 Julian Calendar 1 July 73 BCE == Greg. Calendar 29 June 073 BCE

The year -72 astronomical counting style corresponds to year 073 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 73 BCE
# geocentric

## AUGUST 73 BCE (-72) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 20 28 9 | 5♌19'14 | 23♊28 | 26♋19 | 13♌57 | 26♍12 | 20♌21 | 18°R14 | 18♉32 | 11♊44 | 28♉24 | 20°R17 | 19♏16 | 4♏17 | n.a. | M 1 |
| T 2 | 20 32 5 | 6°17'21 | 7♋23 | 28°16 | 15°11 | 26°52 | 20°34 | 18♐12 | 18°33 | 11°45 | 28°25 | 20♏11 | 19°13 | 4°23 | n.a. | T 2 |
| W 3 | 20 36 2 | 7°15'29 | 21° 8 | 0♌13 | 16°26 | 27°32 | 20°46 | 18°10 | 18°34 | 11°47 | 28°25 | 20° 1 | 19°10 | 4°30 | n.a. | W 3 |
| T 4 | 20 39 58 | 8°13'39 | 4♌41 | 2°11 | 17°40 | 28°12 | 20°59 | 18° 8 | 18°35 | 11°48 | 28°26 | 19°50 | 19° 7 | 4°37 | n.a. | T 4 |
| F 5 | 20 43 55 | 9°11'50 | 18° 0 | 4° 8 | 18°55 | 28°52 | 21°12 | 18° 6 | 18°37 | 11°50 | 28°26 | 19°38 | 19° 4 | 4°43 | n.a. | F 5 |
| S 6 | 20 47 51 | 10°10'04 | 1♍ 1 | 6° 5 | 20° 9 | 29°32 | 21°25 | 18° 4 | 18°38 | 11°51 | 28°27 | 19°25 | 19° 0 | 4°50 | n.a. | S 6 |
| S 7 | 20 51 48 | 11° 8'19 | 13°44 | 8° 2 | 21°23 | 0♎12 | 21°38 | 18° 2 | 18°39 | 11°52 | 28°28 | 19°14 | 18°57 | 4°57 | n.a. | S 7 |
| M 8 | 20 55 44 | 12° 6'36 | 26° 9 | 9°58 | 22°38 | 0°52 | 21°51 | 18° 0 | 18°40 | 11°54 | 28°28 | 19° 5 | 18°54 | 5° 3 | n.a. | M 8 |
| T 9 | 20 59 41 | 13° 4'54 | 8♎20 | 11°53 | 23°52 | 1°32 | 22° 4 | 17°59 | 18°41 | 11°55 | 28°29 | 18°58 | 18°51 | 5°10 | n.a. | T 9 |
| W10 | 21 3 37 | 14° 3'15 | 20°18 | 13°48 | 25° 7 | 2°12 | 22°17 | 17°57 | 18°42 | 11°56 | 28°29 | 18°54 | 18°48 | 5°17 | n.a. | W10 |
| T 11 | 21 7 34 | 15° 1'37 | 2♏ 8 | 15°41 | 26°21 | 2°53 | 22°30 | 17°56 | 18°43 | 11°57 | 28°30 | 18°53 | 18°45 | 5°23 | n.a. | T 11 |
| F 12 | 21 11 31 | 16° 0'00 | 13°56 | 17°34 | 27°36 | 3°33 | 22°43 | 17°54 | 18°43 | 11°59 | 28°30 | 18°52 | 18°41 | 5°30 | n.a. | F 12 |
| S 13 | 21 15 27 | 16°58'26 | 25°47 | 19°25 | 28°51 | 4°14 | 22°55 | 17°53 | 18°44 | 12° 0 | 28°30 | 18°52 | 18°38 | 5°37 | n.a. | S 13 |
| S 14 | 21 19 24 | 17°56'53 | 7♐47 | 21°16 | 0♍ 5 | 4°55 | 23° 8 | 17°52 | 18°45 | 12° 1 | 28°31 | 18°51 | 18°35 | 5°43 | n.a. | S 14 |
| M15 | 21 23 20 | 18°55'22 | 20° 0 | 23° 5 | 1°20 | 5°35 | 23°21 | 17°51 | 18°46 | 12° 2 | 28°31 | 18°49 | 18°32 | 5°50 | n.a. | M15 |
| T 16 | 21 27 17 | 19°53'53 | 2♑31 | 24°53 | 2°34 | 6°16 | 23°34 | 17°50 | 18°46 | 12° 3 | 28°32 | 18°44 | 18°29 | 5°57 | n.a. | T 16 |
| W17 | 21 31 13 | 20°52'25 | 15°23 | 26°41 | 3°49 | 6°57 | 23°47 | 17°49 | 18°47 | 12° 4 | 28°32 | 18°36 | 18°25 | 6° 3 | n.a. | W17 |
| T 18 | 21 35 10 | 21°51'00 | 28°39 | 28°27 | 5° 3 | 7°38 | 24° 0 | 17°48 | 18°47 | 12° 5 | 28°32 | 18°26 | 18°22 | 6°10 | n.a. | T 18 |
| F 19 | 21 39 6 | 22°49'36 | 12♒17 | 0♍12 | 6°18 | 8°19 | 24°14 | 17°48 | 18°48 | 12° 6 | 28°32 | 18°14 | 18°19 | 6°17 | n.a. | F 19 |
| S 20 | 21 43 3 | 23°48'14 | 26°15 | 1°56 | 7°32 | 9° 0 | 24°27 | 17°47 | 18°48 | 12° 7 | 28°33 | 18° 2 | 18°16 | 6°23 | n.a. | S 20 |
| S 21 | 21 47 0 | 24°46'54 | 10♓29 | 3°39 | 8°47 | 9°42 | 24°40 | 17°47 | 18°49 | 12° 8 | 28°33 | 17°51 | 18°13 | 6°30 | n.a. | S 21 |
| M22 | 21 50 56 | 25°45'36 | 24°52 | 5°21 | 10° 1 | 10°23 | 24°53 | 17°46 | 18°49 | 12° 9 | 28°33 | 17°41 | 18°10 | 6°36 | n.a. | M22 |
| T 23 | 21 54 53 | 26°44'21 | 9♈19 | 7° 2 | 11°16 | 11° 4 | 25° 6 | 17°46 | 18°49 | 12°10 | 28°33 | 17°34 | 18° 6 | 6°43 | n.a. | T 23 |
| W24 | 21 58 49 | 27°43'08 | 23°45 | 8°42 | 12°30 | 11°46 | 25°19 | 17°46 | 18°49 | 12°11 | 28°34 | 17°30 | 18° 3 | 6°50 | n.a. | W24 |
| T 25 | 22 2 46 | 28°41'57 | 8♉ 4 | 10°21 | 13°45 | 12°27 | 25°32 | 17°D46 | 18°49 | 12°11 | 28°34 | 17°29 | 18° 0 | 6°56 | n.a. | T 25 |
| F 26 | 22 6 42 | 29°40'49 | 22°15 | 12° 0 | 14°59 | 13° 9 | 25°45 | 17°46 | 18°50 | 12°12 | 28°34 | 17°29 | 17°57 | 7° 3 | n.a. | F 26 |
| S 27 | 22 10 39 | 0♍39'43 | 6♊17 | 13°37 | 16°14 | 13°51 | 25°58 | 17°46 | 18°50 | 12°13 | 28°34 | 17°29 | 17°54 | 7°10 | n.a. | S 27 |
| S 28 | 22 14 35 | 1°38'40 | 20° 8 | 15°13 | 17°28 | 14°33 | 26°11 | 17°46 | 18°R50 | 12°14 | 28°34 | 17°27 | 17°51 | 7°16 | n.a. | S 28 |
| M29 | 22 18 32 | 2°37'39 | 3♋50 | 16°48 | 18°43 | 15°15 | 26°24 | 17°46 | 18°50 | 12°14 | 28°34 | 17°24 | 17°47 | 7°23 | n.a. | M29 |
| T 30 | 22 22 29 | 3°36'40 | 17°22 | 18°23 | 19°58 | 15°56 | 26°37 | 17°47 | 18°49 | 12°15 | 28°34 | 17°18 | 17°44 | 7°30 | n.a. | T 30 |
| W31 | 22 26 25 | 4♍35'44 | 0♌43 | 19♍56 | 21♍12 | 16♎39 | 26♌50 | 17♐47 | 18♉49 | 12♊16 | 28♉34 | 17♏ 9 | 17♏41 | 7♏36 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| M 1 | 19n 9 | 20n47 | 2s46 | 22n39 | 1n34 | 18n11 | 1n26 | 1n40 | 0n 9 | 15n53 | 1n 5 | 22s33 | 0n37 | 17n18 | 0s14 | 21n15 | 1s12 | 12n43 | 7s29 | 18s 1 | 17s44 | 14s20 | | | n.a. |
| T 2 | 18 54 | 19 48 | 3 42 | 22 20 | 1 38 | 17 49 | 1 26 | 1 23 | 0 9 | 15 49 | 1 5 | 22 33 | 0 37 | 17 19 | 0 14 | 21 15 | 1 12 | 12 43 | 7 29 | 17 59 | 17 43 | 14 22 | | | n.a. |
| W 3 | 18 40 | 17 40 | 4 24 | 21 58 | 1 41 | 17 27 | 1 26 | 1 7 | 0 8 | 15 45 | 1 5 | 22 33 | 0 37 | 17 19 | 0 14 | 21 15 | 1 12 | 12 43 | 7 29 | 17 56 | 17 42 | 14 23 | | | n.a. |
| T 4 | 18 24 | 14 36 | 4 51 | 21 35 | 1 44 | 17 4 | 1 26 | 0 50 | 0 7 | 15 41 | 1 5 | 22 33 | 0 37 | 17 19 | 0 14 | 21 15 | 1 12 | 12 43 | 7 29 | 17 53 | 17 42 | 14 25 | | | n.a. |
| F 5 | 18 9 | 10 50 | 5 1 | 21 9 | 1 46 | 16 41 | 1 26 | 0 33 | 0 6 | 15 37 | 1 5 | 22 33 | 0 37 | 17 20 | 0 14 | 21 15 | 1 12 | 12 43 | 7 29 | 17 50 | 17 41 | 14 26 | | | n.a. |
| S 6 | 17 53 | 6 38 | 4 55 | 20 41 | 1 47 | 16 17 | 1 26 | 0 16 | 0 5 | 15 32 | 1 5 | 22 33 | 0 37 | 17 20 | 0 14 | 21 16 | 1 13 | 12 43 | 7 30 | 17 47 | 17 40 | 14 28 | | | n.a. |
| S 7 | 17 37 | 2 15 | 4 34 | 20 11 | 1 48 | 15 52 | 1 26 | 0s 1 | 0 4 | 15 28 | 1 5 | 22 33 | 0 37 | 17 20 | 0 14 | 21 16 | 1 13 | 12 43 | 7 30 | 17 44 | 17 39 | 14 29 | | | n.a. |
| M 8 | 17 21 | 2s 8 | 4 1 | 19 40 | 1 48 | 15 28 | 1 25 | 0 17 | 0 4 | 15 24 | 1 5 | 22 33 | 0 36 | 17 20 | 0 14 | 21 16 | 1 13 | 12 43 | 7 30 | 17 41 | 17 38 | 14 31 | | | n.a. |
| T 9 | 17 4 | 6 21 | 3 17 | 19 7 | 1 47 | 15 3 | 1 25 | 0 34 | 0 3 | 15 20 | 1 5 | 22 33 | 0 36 | 17 21 | 0 14 | 21 16 | 1 13 | 12 43 | 7 30 | 17 39 | 17 37 | 14 32 | | | n.a. |
| W10 | 16 48 | 10 15 | 2 25 | 18 33 | 1 45 | 14 37 | 1 25 | 0 51 | 0 2 | 15 16 | 1 5 | 22 33 | 0 36 | 17 21 | 0 14 | 21 16 | 1 13 | 12 43 | 7 30 | 17 38 | 17 36 | 14 34 | | | n.a. |
| T 11 | 16 30 | 13 43 | 1 28 | 17 57 | 1 44 | 14 11 | 1 24 | 1 8 | 0 1 | 15 11 | 1 5 | 22 33 | 0 36 | 17 21 | 0 14 | 21 16 | 1 13 | 12 43 | 7 30 | 17 38 | 17 35 | 14 35 | | | n.a. |
| F 12 | 16 13 | 16 37 | 0 26 | 17 21 | 1 41 | 13 45 | 1 24 | 1 25 | 0 0 | 15 7 | 1 5 | 22 33 | 0 36 | 17 21 | 0 14 | 21 16 | 1 13 | 12 43 | 7 30 | 17 37 | 17 34 | 14 36 | | | n.a. |
| S 13 | 15 55 | 18 49 | 0n37 | 16 43 | 1 38 | 13 18 | 1 23 | 1 42 | 0s 0 | 15 3 | 1 5 | 22 33 | 0 36 | 17 22 | 0 14 | 21 17 | 1 13 | 12 43 | 7 30 | 17 37 | 17 34 | 14 38 | | | n.a. |
| S 14 | 15 37 | 20 14 | 1 38 | 16 4 | 1 35 | 12 51 | 1 23 | 1 59 | 0 1 | 14 58 | 1 5 | 22 33 | 0 36 | 17 22 | 0 14 | 21 17 | 1 13 | 12 43 | 7 31 | 17 37 | 17 33 | 14 39 | | | n.a. |
| M15 | 15 19 | 20 43 | 2 37 | 15 24 | 1 31 | 12 24 | 1 22 | 2 16 | 0 2 | 14 54 | 1 5 | 22 33 | 0 36 | 17 22 | 0 14 | 21 17 | 1 13 | 12 43 | 7 31 | 17 36 | 17 32 | 14 41 | | | n.a. |
| T 16 | 15 0 | 20 12 | 3 29 | 14 44 | 1 27 | 11 56 | 1 21 | 2 34 | 0 3 | 14 50 | 1 5 | 22 33 | 0 35 | 17 22 | 0 14 | 21 17 | 1 13 | 12 43 | 7 31 | 17 35 | 17 31 | 14 42 | | | n.a. |
| W17 | 14 42 | 18 38 | 4 12 | 14 3 | 1 23 | 11 28 | 1 20 | 2 51 | 0 4 | 14 46 | 1 5 | 22 33 | 0 35 | 17 22 | 0 14 | 21 17 | 1 13 | 12 43 | 7 31 | 17 33 | 17 30 | 14 44 | | | n.a. |
| T 18 | 14 23 | 16 2 | 4 43 | 13 22 | 1 18 | 10 59 | 1 19 | 3 8 | 0 4 | 14 41 | 1 5 | 22 33 | 0 35 | 17 22 | 0 14 | 21 17 | 1 13 | 12 43 | 7 31 | 17 30 | 17 29 | 14 45 | | | n.a. |
| F 19 | 14 3 | 12 31 | 4 59 | 12 40 | 1 13 | 10 31 | 1 18 | 3 25 | 0 5 | 14 37 | 1 5 | 22 33 | 0 35 | 17 23 | 0 14 | 21 17 | 1 13 | 12 43 | 7 31 | 17 27 | 17 28 | 14 46 | | | n.a. |
| S 20 | 13 44 | 8 14 | 4 58 | 11 57 | 1 8 | 10 2 | 1 17 | 3 42 | 0 6 | 14 32 | 1 5 | 22 33 | 0 35 | 17 23 | 0 14 | 21 17 | 1 13 | 12 43 | 7 31 | 17 23 | 17 27 | 14 48 | | | n.a. |
| S 21 | 13 24 | 3 26 | 4 38 | 11 14 | 1 2 | 9 33 | 1 16 | 3 59 | 0 7 | 14 28 | 1 5 | 22 33 | 0 35 | 17 23 | 0 14 | 21 17 | 1 13 | 12 43 | 7 31 | 17 20 | 17 26 | 14 49 | | | n.a. |
| M22 | 13 4 | 1n37 | 4 0 | 10 31 | 0 56 | 9 3 | 1 15 | 4 16 | 0 7 | 14 24 | 1 5 | 22 34 | 0 35 | 17 23 | 0 14 | 21 17 | 1 13 | 12 43 | 7 31 | 17 18 | 17 26 | 14 51 | | | n.a. |
| T 23 | 12 44 | 6 36 | 3 7 | 9 48 | 0 50 | 8 33 | 1 14 | 4 33 | 0 8 | 14 19 | 1 5 | 22 34 | 0 34 | 17 23 | 0 14 | 21 18 | 1 13 | 12 43 | 7 32 | 17 16 | 17 25 | 14 52 | | | n.a. |
| W24 | 12 24 | 11 12 | 2 2 | 9 4 | 0 44 | 8 4 | 1 13 | 4 50 | 0 9 | 14 15 | 1 5 | 22 34 | 0 34 | 17 23 | 0 14 | 21 18 | 1 13 | 12 43 | 7 32 | 17 15 | 17 24 | 14 53 | | | n.a. |
| T 25 | 12 3 | 15 8 | 0 50 | 8 21 | 0 38 | 7 33 | 1 11 | 5 7 | 0 10 | 14 11 | 1 5 | 22 34 | 0 34 | 17 23 | 0 14 | 21 18 | 1 13 | 12 43 | 7 32 | 17 14 | 17 23 | 14 55 | | | n.a. |
| F 26 | 11 43 | 18 8 | 0s25 | 7 37 | 0 31 | 7 3 | 1 10 | 5 24 | 0 10 | 14 6 | 1 5 | 22 34 | 0 34 | 17 23 | 0 14 | 21 18 | 1 13 | 12 43 | 7 32 | 17 14 | 17 22 | 14 56 | | | n.a. |
| S 27 | 11 22 | 19 59 | 1 38 | 6 53 | 0 24 | 6 33 | 1 9 | 5 42 | 0 11 | 14 2 | 1 6 | 22 34 | 0 34 | 17 23 | 0 14 | 21 18 | 1 13 | 12 42 | 7 32 | 17 14 | 17 21 | 14 58 | | | n.a. |
| S 28 | 11 0 | 20 36 | 2 44 | 6 9 | 0 18 | 6 2 | 1 7 | 5 59 | 0 12 | 13 57 | 1 6 | 22 34 | 0 34 | 17 23 | 0 14 | 21 18 | 1 13 | 12 42 | 7 32 | 17 14 | 17 20 | 14 59 | | | n.a. |
| M29 | 10 39 | 19 59 | 3 40 | 5 26 | 0 11 | 5 31 | 1 6 | 6 16 | 0 13 | 13 53 | 1 6 | 22 35 | 0 34 | 17 23 | 0 14 | 21 18 | 1 13 | 12 42 | 7 32 | 17 13 | 17 19 | 15 0 | | | n.a. |
| T 30 | 10 18 | 18 14 | 4 22 | 4 42 | 0 4 | 5 0 | 1 4 | 6 33 | 0 13 | 13 48 | 1 6 | 22 35 | 0 33 | 17 23 | 0 14 | 21 18 | 1 13 | 12 42 | 7 32 | 17 11 | 17 18 | 15 2 | | | n.a. |
| W31 | 9n56 | 15n30 | 4s50 | 3n59 | 0s 3 | 4n29 | 1n 2 | 6s50 | 0s14 | 13n44 | 1n 6 | 22s35 | 0n33 | 17n23 | 0s14 | 21n18 | 1s13 | 12n42 | 7s33 | 17s 8 | 17s18 | 15s 3 | | | n.a. |

Julian Day Number = 1694972.5, Delta T = 03h08m32s
Ecliptic obliquity = 23°42'07, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°03'51, Lahiri = - 4°56'50 Julian Calendar 1 Aug. 73 BCE == Greg. Calendar 30 July 073 BCE

The year -72 astronomical counting style corresponds to year 073 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 73 BCE
# geocentric

## SEPTEMBER 73 BCE (-72) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 22 30 22 | 5♍34'50 | 13♌53 | 21♍29 | 22♍27 | 17♎21 | 27♌ 3 | 17♐48 | 18°R49 | 12♊16 | 28°R34 | 16°R58 | 17♏38 | 7♏43 | n.a. | T 1 |
| F 2 | 22 34 18 | 6°33'58 | 26°50 | 23° 1 | 23°41 | 18° 3 | 27°16 | 17°49 | 18♉49 | 12°17 | 28♉34 | 16♏46 | 17°35 | 7°50 | n.a. | F 2 |
| S 3 | 22 38 15 | 7°33'08 | 9♍34 | 24°32 | 24°56 | 18°45 | 27°28 | 17°49 | 18°49 | 12°17 | 28°34 | 16°34 | 17°31 | 7°56 | n.a. | S 3 |
| S 4 | 22 42 11 | 8°32'21 | 22° 4 | 26° 2 | 26°10 | 19°27 | 27°41 | 17°50 | 18°48 | 12°18 | 28°34 | 16°22 | 17°28 | 8° 3 | n.a. | S 4 |
| M 5 | 22 46 8 | 9°31'35 | 4♎21 | 27°31 | 27°25 | 20°10 | 27°54 | 17°51 | 18°48 | 12°18 | 28°34 | 16°13 | 17°25 | 8°10 | n.a. | M 5 |
| T 6 | 22 50 4 | 10°30'52 | 16°25 | 29° 0 | 28°39 | 20°52 | 28° 7 | 17°52 | 18°47 | 12°19 | 28°34 | 16° 6 | 17°22 | 8°16 | n.a. | T 6 |
| W 7 | 22 54 1 | 11°30'10 | 28°19 | 0♎27 | 29°54 | 21°35 | 28°20 | 17°54 | 18°47 | 12°19 | 28°34 | 16° 2 | 17°19 | 8°23 | n.a. | W 7 |
| T 8 | 22 57 57 | 12°29'31 | 10♏ 8 | 1°54 | 1♎ 9 | 22°18 | 28°33 | 17°55 | 18°46 | 12°19 | 28°34 | 16° 1 | 17°16 | 8°29 | n.a. | T 8 |
| F 9 | 23 1 54 | 13°28'53 | 21°54 | 3°20 | 2°23 | 23° 0 | 28°46 | 17°56 | 18°46 | 12°20 | 28°34 | 16°D 1 | 17°12 | 8°36 | n.a. | F 9 |
| S 10 | 23 5 51 | 14°28'18 | 3♐44 | 4°44 | 3°38 | 23°43 | 28°59 | 17°58 | 18°45 | 12°20 | 28°33 | 16° 1 | 17° 9 | 8°43 | n.a. | S 10 |
| S 11 | 23 9 47 | 15°27'44 | 15°41 | 6° 8 | 4°52 | 24°26 | 29°11 | 17°59 | 18°44 | 12°20 | 28°33 | 16°R 2 | 17° 6 | 8°49 | n.a. | S 11 |
| M12 | 23 13 44 | 16°27'12 | 27°53 | 7°31 | 6° 7 | 25° 9 | 29°24 | 18° 1 | 18°43 | 12°20 | 28°33 | 16° 1 | 17° 3 | 8°56 | n.a. | M12 |
| T 13 | 23 17 40 | 17°26'42 | 10♑23 | 8°53 | 7°21 | 25°52 | 29°37 | 18° 3 | 18°43 | 12°21 | 28°33 | 15°58 | 17° 0 | 9° 3 | n.a. | T 13 |
| W14 | 23 21 37 | 18°26'14 | 23°17 | 10°14 | 8°36 | 26°35 | 29°49 | 18° 5 | 18°42 | 12°21 | 28°32 | 15°53 | 16°57 | 9° 9 | n.a. | W14 |
| T 15 | 23 25 33 | 19°25'48 | 6♒36 | 11°33 | 9°50 | 27°18 | 0♍ 2 | 18° 7 | 18°41 | 12°21 | 28°32 | 15°47 | 16°53 | 9°16 | n.a. | T 15 |
| F 16 | 23 29 30 | 20°25'23 | 20°23 | 12°52 | 11° 5 | 28° 2 | 0°15 | 18° 9 | 18°40 | 12°21 | 28°32 | 15°38 | 16°50 | 9°23 | n.a. | F 16 |
| S 17 | 23 33 26 | 21°25'01 | 4♓35 | 14° 9 | 12°19 | 28°45 | 0°27 | 18°11 | 18°39 | 12°21 | 28°31 | 15°29 | 16°47 | 9°29 | n.a. | S 17 |
| S 18 | 23 37 23 | 22°24'40 | 19° 8 | 15°25 | 13°34 | 29°28 | 0°40 | 18°13 | 18°38 | 12°R21 | 28°31 | 15°20 | 16°44 | 9°36 | n.a. | S 18 |
| M19 | 23 41 20 | 23°24'22 | 3♈54 | 16°39 | 14°48 | 0♏12 | 0°52 | 18°16 | 18°37 | 12°21 | 28°31 | 15°13 | 16°41 | 9°43 | n.a. | M19 |
| T 20 | 23 45 16 | 24°24'06 | 18°47 | 17°52 | 16° 2 | 0°55 | 1° 5 | 18°18 | 18°35 | 12°21 | 28°30 | 15° 8 | 16°37 | 9°49 | n.a. | T 20 |
| W21 | 23 49 13 | 25°23'52 | 3♉37 | 19° 3 | 17°17 | 1°39 | 1°17 | 18°21 | 18°34 | 12°21 | 28°30 | 15° 6 | 16°34 | 9°56 | n.a. | W21 |
| T 22 | 23 53 9 | 26°23'40 | 18°17 | 20°12 | 18°31 | 2°22 | 1°30 | 18°23 | 18°33 | 12°21 | 28°29 | 15°D 5 | 16°31 | 10° 3 | n.a. | T 22 |
| F 23 | 23 57 6 | 27°23'31 | 2♊44 | 21°19 | 19°46 | 3° 6 | 1°42 | 18°26 | 18°32 | 12°20 | 28°29 | 15° 6 | 16°28 | 10° 9 | n.a. | F 23 |
| S 24 | 0 1 2 | 28°23'24 | 16°54 | 22°24 | 21° 0 | 3°50 | 1°55 | 18°29 | 18°30 | 12°20 | 28°28 | 15° 7 | 16°25 | 10°16 | n.a. | S 24 |
| S 25 | 0 4 59 | 29°23'19 | 0♋46 | 23°27 | 22°15 | 4°34 | 2° 7 | 18°32 | 18°29 | 12°20 | 28°28 | 15°R 8 | 16°22 | 10°22 | n.a. | S 25 |
| M26 | 0 8 55 | 0♎23'17 | 14°20 | 24°27 | 23°29 | 5°18 | 2°19 | 18°35 | 18°28 | 12°20 | 28°27 | 15° 7 | 16°18 | 10°29 | n.a. | M26 |
| T 27 | 0 12 52 | 1°23'17 | 27°38 | 25°24 | 24°44 | 6° 2 | 2°31 | 18°38 | 18°26 | 12°19 | 28°27 | 15° 4 | 16°15 | 10°36 | n.a. | T 27 |
| W28 | 0 16 48 | 2°23'19 | 10♌42 | 26°18 | 25°58 | 6°46 | 2°43 | 18°41 | 18°25 | 12°19 | 28°26 | 14°59 | 16°12 | 10°42 | n.a. | W28 |
| T 29 | 0 20 45 | 3°23'24 | 23°31 | 27° 8 | 27°12 | 7°30 | 2°56 | 18°44 | 18°23 | 12°19 | 28°26 | 14°53 | 16° 9 | 10°49 | n.a. | T 29 |
| F 30 | 0 24 42 | 4♎23'30 | 6♍ 9 | 27♎53 | 28♎27 | 8♏14 | 3♍ 8 | 18♐48 | 18♉21 | 12♊18 | 28♉25 | 14♏45 | 16♏ 6 | 10♏56 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 9n34 | 12n 2 | 5s 1 | 3n15 | 0s10 | 3n57 | 1n 1 | 7s 7 | 0s15 | 13n40 | 1n 6 | 22s35 | 0n33 | 17n23 | 0s14 | 21n18 | 1s13 | 12n42 | 7s33 | 17s 5 | 17s17 | 15s 4 | | n.a. |
| F 2 | 9 12 | 8 3 | 4 57 | 2 32 | 0 18 | 3 26 | 0 59 | 7 24 | 0 16 | 13 35 | 1 6 | 22 35 | 0 33 | 17 23 | 0 14 | 21 18 | 1 13 | 12 42 | 7 33 | 17 2 | 17 16 | 15 6 | | n.a. |
| S 3 | 8 50 | 3 46 | 4 38 | 1 49 | 0 25 | 2 54 | 0 57 | 7 41 | 0 16 | 13 31 | 1 6 | 22 35 | 0 33 | 17 23 | 0 14 | 21 18 | 1 13 | 12 42 | 7 33 | 16 58 | 17 15 | 15 7 | | n.a. |
| S 4 | 8 27 | 0s35 | 4 6 | 1 6 | 0 32 | 2 23 | 0 55 | 7 57 | 0 17 | 13 26 | 1 6 | 22 36 | 0 33 | 17 23 | 0 14 | 21 18 | 1 13 | 12 41 | 7 33 | 16 55 | 17 14 | 15 9 | | n.a. |
| M 5 | 8 5 | 4 51 | 3 23 | 0 24 | 0 39 | 1 51 | 0 53 | 8 14 | 0 18 | 13 22 | 1 6 | 22 36 | 0 33 | 17 23 | 0 14 | 21 18 | 1 13 | 12 41 | 7 33 | 16 52 | 17 13 | 15 10 | | n.a. |
| T 6 | 7 42 | 8 51 | 2 31 | 0s19 | 0 47 | 1 19 | 0 51 | 8 31 | 0 18 | 13 17 | 1 6 | 22 36 | 0 32 | 17 22 | 0 14 | 21 18 | 1 13 | 12 41 | 7 33 | 16 50 | 17 12 | 15 11 | | n.a. |
| W 7 | 7 20 | 12 27 | 1 33 | 1 0 | 0 54 | 0 48 | 0 49 | 8 48 | 0 19 | 13 13 | 1 6 | 22 36 | 0 32 | 17 22 | 0 14 | 21 18 | 1 13 | 12 41 | 7 33 | 16 49 | 17 11 | 15 13 | | n.a. |
| T 8 | 6 57 | 15 31 | 0 31 | 1 42 | 1 1 | 0 16 | 0 47 | 9 5 | 0 20 | 13 9 | 1 6 | 22 37 | 0 32 | 17 22 | 0 14 | 21 18 | 1 13 | 12 41 | 7 34 | 16 49 | 17 10 | 15 14 | | n.a. |
| F 9 | 6 34 | 17 56 | 0n32 | 2 23 | 1 9 | 0s16 | 0 45 | 9 21 | 0 21 | 13 4 | 1 6 | 22 37 | 0 32 | 17 22 | 0 14 | 21 18 | 1 14 | 12 41 | 7 34 | 16 49 | 17 9 | 15 15 | | n.a. |
| S 10 | 6 11 | 19 36 | 1 34 | 3 4 | 1 16 | 0 48 | 0 43 | 9 38 | 0 21 | 13 0 | 1 6 | 22 37 | 0 32 | 17 22 | 0 14 | 21 18 | 1 14 | 12 41 | 7 34 | 16 49 | 17 8 | 15 17 | | n.a. |
| S 11 | 5 47 | 20 24 | 2 32 | 3 44 | 1 23 | 1 20 | 0 41 | 9 55 | 0 22 | 12 55 | 1 7 | 22 37 | 0 32 | 17 22 | 0 14 | 21 18 | 1 14 | 12 40 | 7 34 | 16 49 | 17 8 | 15 18 | | n.a. |
| M12 | 5 24 | 20 16 | 3 25 | 4 23 | 1 30 | 1 52 | 0 39 | 10 11 | 0 23 | 12 51 | 1 7 | 22 38 | 0 32 | 17 21 | 0 14 | 21 18 | 1 14 | 12 40 | 7 34 | 16 49 | 17 7 | 15 19 | | n.a. |
| T 13 | 5 1 | 19 9 | 4 10 | 5 2 | 1 37 | 2 24 | 0 36 | 10 28 | 0 23 | 12 46 | 1 7 | 22 38 | 0 32 | 17 21 | 0 14 | 21 18 | 1 14 | 12 40 | 7 34 | 16 48 | 17 6 | 15 21 | | n.a. |
| W14 | 4 37 | 17 1 | 4 43 | 5 41 | 1 44 | 2 55 | 0 34 | 10 44 | 0 24 | 12 42 | 1 7 | 22 38 | 0 31 | 17 21 | 0 14 | 21 18 | 1 14 | 12 40 | 7 34 | 16 47 | 17 5 | 15 22 | | n.a. |
| T 15 | 4 14 | 13 57 | 5 2 | 6 18 | 1 50 | 3 27 | 0 32 | 11 1 | 0 25 | 12 37 | 1 7 | 22 39 | 0 31 | 17 21 | 0 14 | 21 18 | 1 14 | 12 40 | 7 34 | 16 45 | 17 4 | 15 23 | | n.a. |
| F 16 | 3 50 | 10 2 | 5 5 | 6 55 | 1 57 | 3 59 | 0 29 | 11 17 | 0 25 | 12 33 | 1 7 | 22 39 | 0 31 | 17 20 | 0 14 | 21 18 | 1 14 | 12 40 | 7 34 | 16 42 | 17 3 | 15 25 | | n.a. |
| S 17 | 3 26 | 5 27 | 4 50 | 7 32 | 2 3 | 4 30 | 0 27 | 11 33 | 0 26 | 12 29 | 1 7 | 22 39 | 0 31 | 17 20 | 0 14 | 21 18 | 1 14 | 12 39 | 7 35 | 16 39 | 17 2 | 15 26 | | n.a. |
| S 18 | 3 3 | 0 26 | 4 15 | 8 7 | 2 9 | 5 2 | 0 24 | 11 49 | 0 27 | 12 24 | 1 7 | 22 40 | 0 31 | 17 20 | 0 14 | 21 18 | 1 14 | 12 39 | 7 35 | 16 37 | 17 1 | 15 27 | | n.a. |
| M19 | 2 39 | 4n40 | 3 23 | 8 42 | 2 15 | 5 33 | 0 22 | 12 5 | 0 27 | 12 20 | 1 7 | 22 40 | 0 31 | 17 19 | 0 14 | 21 18 | 1 14 | 12 39 | 7 35 | 16 35 | 17 0 | 15 28 | | n.a. |
| T 20 | 2 15 | 9 33 | 2 17 | 9 15 | 2 21 | 6 5 | 0 19 | 12 21 | 0 28 | 12 15 | 1 7 | 22 40 | 0 31 | 17 19 | 0 14 | 21 18 | 1 14 | 12 39 | 7 35 | 16 33 | 16 59 | 15 30 | | n.a. |
| W21 | 1 51 | 13 49 | 1 2 | 9 48 | 2 27 | 6 36 | 0 17 | 12 37 | 0 29 | 12 11 | 1 8 | 22 41 | 0 31 | 17 19 | 0 14 | 21 18 | 1 14 | 12 39 | 7 35 | 16 33 | 16 58 | 15 31 | | n.a. |
| T 22 | 1 27 | 17 11 | 0s17 | 10 19 | 2 32 | 7 7 | 0 14 | 12 53 | 0 29 | 12 7 | 1 8 | 22 41 | 0 30 | 17 18 | 0 14 | 21 18 | 1 14 | 12 38 | 7 35 | 16 32 | 16 57 | 15 32 | | n.a. |
| F 23 | 1 3 | 19 24 | 1 34 | 10 50 | 2 37 | 7 38 | 0 12 | 13 9 | 0 30 | 12 2 | 1 8 | 22 41 | 0 30 | 17 18 | 0 14 | 21 18 | 1 14 | 12 38 | 7 35 | 16 33 | 16 57 | 15 34 | | n.a. |
| S 24 | 0 39 | 20 20 | 2 43 | 11 18 | 2 42 | 8 9 | 0 9 | 13 25 | 0 31 | 11 58 | 1 8 | 22 42 | 0 30 | 17 18 | 0 14 | 21 18 | 1 14 | 12 38 | 7 35 | 16 33 | 16 56 | 15 35 | | n.a. |
| S 25 | 0 15 | 20 0 | 3 42 | 11 46 | 2 46 | 8 39 | 0 7 | 13 40 | 0 31 | 11 54 | 1 8 | 22 42 | 0 30 | 17 17 | 0 14 | 21 18 | 1 14 | 12 38 | 7 35 | 16 33 | 16 55 | 15 36 | | n.a. |
| M26 | 0s 9 | 18 30 | 4 26 | 12 12 | 2 49 | 9 9 | 0 4 | 13 56 | 0 32 | 11 49 | 1 8 | 22 43 | 0 30 | 17 17 | 0 14 | 21 18 | 1 14 | 12 38 | 7 36 | 16 33 | 16 54 | 15 37 | | n.a. |
| T 27 | 0 33 | 16 2 | 4 56 | 12 36 | 2 53 | 9 40 | 0 1 | 14 11 | 0 32 | 11 45 | 1 8 | 22 43 | 0 30 | 17 16 | 0 14 | 21 18 | 1 14 | 12 37 | 7 36 | 16 32 | 16 53 | 15 39 | | n.a. |
| W28 | 0 58 | 12 48 | 5 9 | 12 59 | 2 55 | 10 10 | 0s 1 | 14 26 | 0 33 | 11 41 | 1 8 | 22 43 | 0 30 | 17 16 | 0 14 | 21 18 | 1 14 | 12 37 | 7 36 | 16 31 | 16 52 | 15 40 | | n.a. |
| T 29 | 1 22 | 9 1 | 5 6 | 13 19 | 2 58 | 10 39 | 0 4 | 14 42 | 0 34 | 11 36 | 1 9 | 22 44 | 0 29 | 17 16 | 0 14 | 21 18 | 1 14 | 12 37 | 7 36 | 16 29 | 16 51 | 15 41 | | n.a. |
| F 30 | 1s46 | 4n53 | 4s49 | 13s37 | 2s59 | 11s 9 | 0s 7 | 14s57 | 0s34 | 11n32 | 1n 9 | 22s44 | 0n29 | 17n15 | 0s14 | 21n18 | 1s14 | 12n37 | 7s36 | 16s26 | 16s50 | 15s43 | | n.a. |

Julian Day Number = 1695003.5, Delta T = 03h08m31s
Ecliptic obliquity = 23°42'08, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°03'46, Lahiri = - 4°56'46 Julian Calendar 1 Sept. 73 BCE == Greg. Calendar 30 Aug. 073 BCE

The year -72 astronomical counting style corresponds to year 073 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 73 BCE
# geocentric

## OCTOBER 73 BCE (-72) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 0 28 38 | 5♎23'39 | 18♍34 | 28♎35 | 29♎41 | 8♏58 | 3♍20 | 18♐51 | 18°R20 | 12°R18 | 28°R24 | 14°R38 | 16♏ 2 | 11♏ 2 | n.a. | S 1 |
| S 2 | 0 32 35 | 6°23'49 | 0♎49 | 29°11 | 0♏55 | 9°43 | 3°31 | 18°55 | 18♉18 | 12♊17 | 28♉24 | 14♏31 | 15°59 | 11° 9 | n.a. | S 2 |
| M 3 | 0 36 31 | 7°24'02 | 12°54 | 29°42 | 2°10 | 10°27 | 3°43 | 18°58 | 18°16 | 12°17 | 28°23 | 14°25 | 15°56 | 11°16 | n.a. | M 3 |
| T 4 | 0 40 28 | 8°24'16 | 24°50 | 0♏ 7 | 3°24 | 11°11 | 3°55 | 19° 2 | 18°15 | 12°16 | 28°22 | 14°21 | 15°53 | 11°22 | n.a. | T 4 |
| W 5 | 0 44 24 | 9°24'33 | 6♏41 | 0°24 | 4°39 | 11°56 | 4° 7 | 19° 6 | 18°13 | 12°16 | 28°22 | 14°19 | 15°50 | 11°29 | n.a. | W 5 |
| T 6 | 0 48 21 | 10°24'51 | 18°27 | 0°35 | 5°53 | 12°40 | 4°19 | 19°10 | 18°11 | 12°15 | 28°21 | 14°D19 | 15°47 | 11°36 | n.a. | T 6 |
| F 7 | 0 52 17 | 11°25'10 | 0♐13 | 0°R37 | 7° 7 | 13°25 | 4°30 | 19°14 | 18° 9 | 12°15 | 28°20 | 14°20 | 15°43 | 11°42 | n.a. | F 7 |
| S 8 | 0 56 14 | 12°25'32 | 12° 2 | 0°30 | 8°22 | 14°10 | 4°42 | 19°18 | 18° 7 | 12°14 | 28°19 | 14°22 | 15°40 | 11°49 | n.a. | S 8 |
| S 9 | 1 0 11 | 13°25'55 | 23°59 | 0°15 | 9°36 | 14°55 | 4°53 | 19°22 | 18° 5 | 12°13 | 28°19 | 14°24 | 15°37 | 11°55 | n.a. | S 9 |
| M10 | 1 4 7 | 14°26'19 | 6♑ 8 | 29♎49 | 10°50 | 15°39 | 5° 5 | 19°26 | 18° 3 | 12°13 | 28°18 | 14°25 | 15°34 | 12° 2 | n.a. | M10 |
| T 11 | 1 8 4 | 15°26'46 | 18°35 | 29°13 | 12° 4 | 16°24 | 5°16 | 19°30 | 18° 1 | 12°12 | 28°17 | 14°R25 | 15°31 | 12° 9 | n.a. | T 11 |
| W12 | 1 12 0 | 16°27'13 | 1♒23 | 28°28 | 13°19 | 17° 9 | 5°28 | 19°35 | 17°59 | 12°11 | 28°16 | 14°24 | 15°28 | 12°15 | n.a. | W12 |
| T 13 | 1 15 57 | 17°27'42 | 14°37 | 27°33 | 14°33 | 17°54 | 5°39 | 19°39 | 17°57 | 12°10 | 28°15 | 14°22 | 15°24 | 12°22 | n.a. | T 13 |
| F 14 | 1 19 53 | 18°28'12 | 28°19 | 26°29 | 15°47 | 18°39 | 5°50 | 19°43 | 17°55 | 12° 9 | 28°14 | 14°19 | 15°21 | 12°29 | n.a. | F 14 |
| S 15 | 1 23 50 | 19°28'44 | 12♓30 | 25°18 | 17° 1 | 19°24 | 6° 1 | 19°48 | 17°53 | 12° 9 | 28°13 | 14°15 | 15°18 | 12°35 | n.a. | S 15 |
| S 16 | 1 27 46 | 20°29'17 | 27° 6 | 24° 1 | 18°16 | 20°10 | 6°12 | 19°53 | 17°51 | 12° 8 | 28°13 | 14°12 | 15°15 | 12°42 | n.a. | S 16 |
| M17 | 1 31 43 | 21°29'52 | 12♈ 2 | 22°41 | 19°30 | 20°55 | 6°23 | 19°57 | 17°49 | 12° 7 | 28°12 | 14° 9 | 15°12 | 12°49 | n.a. | M17 |
| T 18 | 1 35 39 | 22°30'28 | 27°10 | 21°21 | 20°44 | 21°40 | 6°34 | 20° 2 | 17°46 | 12° 6 | 28°11 | 14° 7 | 15° 8 | 12°55 | n.a. | T 18 |
| W19 | 1 39 36 | 23°31'06 | 12♉20 | 20° 1 | 21°58 | 22°25 | 6°45 | 20° 7 | 17°44 | 12° 5 | 28°10 | 14°D 6 | 15° 5 | 13° 2 | n.a. | W19 |
| T 20 | 1 43 33 | 24°31'45 | 27°23 | 18°47 | 23°12 | 23°11 | 6°55 | 20°12 | 17°42 | 12° 4 | 28° 9 | 14° 7 | 15° 2 | 13° 9 | n.a. | T 20 |
| F 21 | 1 47 29 | 25°32'26 | 12♊11 | 17°39 | 24°26 | 23°56 | 7° 6 | 20°17 | 17°40 | 12° 3 | 28° 8 | 14° 8 | 14°59 | 13°15 | n.a. | F 21 |
| S 22 | 1 51 26 | 26°33'09 | 26°38 | 16°40 | 25°41 | 24°42 | 7°16 | 20°22 | 17°37 | 12° 2 | 28° 7 | 14° 9 | 14°56 | 13°22 | n.a. | S 22 |
| S 23 | 1 55 22 | 27°33'54 | 10♋42 | 15°51 | 26°55 | 25°27 | 7°27 | 20°27 | 17°35 | 12° 1 | 28° 6 | 14°10 | 14°53 | 13°29 | n.a. | S 23 |
| M24 | 1 59 19 | 28°34'41 | 24°22 | 15°14 | 28° 9 | 26°13 | 7°37 | 20°32 | 17°33 | 11°59 | 28° 5 | 14°R11 | 14°49 | 13°35 | n.a. | M24 |
| T 25 | 2 3 15 | 29°35'29 | 7♌39 | 14°48 | 29°23 | 26°58 | 7°48 | 20°38 | 17°30 | 11°58 | 28° 4 | 14°11 | 14°46 | 13°42 | n.a. | T 25 |
| W26 | 2 7 12 | 0♏36'18 | 20°35 | 14°34 | 0♐37 | 27°44 | 7°58 | 20°43 | 17°28 | 11°57 | 28° 3 | 14°10 | 14°43 | 13°48 | n.a. | W26 |
| T 27 | 2 11 9 | 1°37'10 | 3♍12 | 14°D31 | 1°51 | 28°30 | 8° 8 | 20°48 | 17°25 | 11°56 | 28° 2 | 14° 9 | 14°40 | 13°55 | n.a. | T 27 |
| F 28 | 2 15 5 | 2°38'03 | 15°35 | 14°39 | 3° 5 | 29°16 | 8°18 | 20°54 | 17°23 | 11°55 | 28° 1 | 14° 7 | 14°37 | 14° 2 | n.a. | F 28 |
| S 29 | 2 19 2 | 3°38'57 | 27°46 | 14°56 | 4°19 | 0♐ 2 | 8°28 | 20°59 | 17°21 | 11°54 | 28° 0 | 14° 5 | 14°33 | 14° 8 | n.a. | S 29 |
| S 30 | 2 22 58 | 4°39'53 | 9♎48 | 15°23 | 5°33 | 0°47 | 8°37 | 21° 5 | 17°18 | 11°52 | 27°59 | 14° 4 | 14°30 | 14°15 | n.a. | S 30 |
| M31 | 2 26 55 | 5♏40'50 | 21♎43 | 15♎58 | 6♐47 | 1♐33 | 8♍47 | 21♐10 | 17♉16 | 11♊51 | 27♉58 | 14♏ 3 | 14♏27 | 14♏22 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 2s10 | 0n38 | 4s18 | 13s53 | 3s 0 | 11s38 | 0s10 | 15s12 | 0s35 | 11n28 | 1n 9 | 22s45 | 0n29 | 17n15 | 0s14 | 21n17 | 1s14 | 12n36 | 7s36 | 16s24 | 16s49 | 15s44 | | n.a. |
| S 2 | 2 34 | 3s36 | 3 35 | 14 6 | 2 59 | 12 7 | 0 12 | 15 27 | 0 36 | 11 24 | 1 9 | 22 45 | 0 29 | 17 14 | 0 14 | 21 17 | 1 14 | 12 36 | 7 36 | 16 22 | 16 48 | 15 45 | | n.a. |
| M 3 | 2 58 | 7 39 | 2 43 | 14 16 | 2 58 | 12 35 | 0 15 | 15 41 | 0 36 | 11 19 | 1 9 | 22 45 | 0 29 | 17 14 | 0 14 | 21 17 | 1 14 | 12 36 | 7 36 | 16 20 | 16 47 | 15 46 | | n.a. |
| T 4 | 3 22 | 11 20 | 1 44 | 14 23 | 2 56 | 13 4 | 0 18 | 15 56 | 0 37 | 11 15 | 1 9 | 22 46 | 0 29 | 17 13 | 0 14 | 21 17 | 1 14 | 12 36 | 7 36 | 16 19 | 16 46 | 15 48 | | n.a. |
| W 5 | 3 46 | 14 33 | 0 42 | 14 26 | 2 53 | 13 32 | 0 20 | 16 10 | 0 37 | 11 11 | 1 9 | 22 46 | 0 29 | 17 13 | 0 14 | 21 17 | 1 14 | 12 36 | 7 36 | 16 19 | 16 45 | 15 49 | | n.a. |
| T 6 | 4 10 | 17 9 | 0n23 | 14 26 | 2 49 | 13 59 | 0 23 | 16 25 | 0 38 | 11 7 | 1 9 | 22 47 | 0 29 | 17 12 | 0 14 | 21 17 | 1 14 | 12 35 | 7 36 | 16 19 | 16 45 | 15 50 | | n.a. |
| F 7 | 4 34 | 19 1 | 1 26 | 14 21 | 2 43 | 14 27 | 0 26 | 16 39 | 0 38 | 11 3 | 1 10 | 22 47 | 0 29 | 17 12 | 0 14 | 21 17 | 1 14 | 12 35 | 7 37 | 16 19 | 16 44 | 15 51 | | n.a. |
| S 8 | 4 58 | 20 4 | 2 26 | 14 12 | 2 35 | 14 54 | 0 29 | 16 53 | 0 39 | 10 58 | 1 10 | 22 48 | 0 28 | 17 11 | 0 14 | 21 17 | 1 14 | 12 35 | 7 37 | 16 20 | 16 43 | 15 53 | | n.a. |
| S 9 | 5 21 | 20 13 | 3 21 | 13 58 | 2 26 | 15 20 | 0 31 | 17 7 | 0 40 | 10 54 | 1 10 | 22 48 | 0 28 | 17 11 | 0 14 | 21 17 | 1 14 | 12 35 | 7 37 | 16 20 | 16 42 | 15 54 | | n.a. |
| M10 | 5 45 | 19 26 | 4 7 | 13 39 | 2 16 | 15 47 | 0 34 | 17 21 | 0 40 | 10 50 | 1 10 | 22 49 | 0 28 | 17 10 | 0 14 | 21 16 | 1 14 | 12 34 | 7 37 | 16 20 | 16 41 | 15 55 | | n.a. |
| T 11 | 6 9 | 17 43 | 4 43 | 13 14 | 2 3 | 16 13 | 0 37 | 17 34 | 0 41 | 10 46 | 1 10 | 22 49 | 0 28 | 17 10 | 0 14 | 21 16 | 1 15 | 12 34 | 7 37 | 16 21 | 16 40 | 15 56 | | n.a. |
| W12 | 6 32 | 15 5 | 5 7 | 12 45 | 1 49 | 16 38 | 0 39 | 17 48 | 0 41 | 10 42 | 1 10 | 22 49 | 0 28 | 17 9 | 0 14 | 21 16 | 1 15 | 12 34 | 7 37 | 16 20 | 16 39 | 15 57 | | n.a. |
| T 13 | 6 56 | 11 37 | 5 15 | 12 10 | 1 33 | 17 3 | 0 42 | 18 1 | 0 42 | 10 38 | 1 11 | 22 50 | 0 28 | 17 8 | 0 14 | 21 16 | 1 15 | 12 34 | 7 37 | 16 20 | 16 38 | 15 59 | | n.a. |
| F 14 | 7 19 | 7 25 | 5 5 | 11 30 | 1 16 | 17 28 | 0 45 | 18 15 | 0 42 | 10 34 | 1 11 | 22 50 | 0 28 | 17 8 | 0 14 | 21 16 | 1 15 | 12 33 | 7 37 | 16 19 | 16 37 | 16 0 | | n.a. |
| S 15 | 7 42 | 2 40 | 4 38 | 10 47 | 0 57 | 17 52 | 0 48 | 18 28 | 0 43 | 10 30 | 1 11 | 22 51 | 0 28 | 17 7 | 0 14 | 21 16 | 1 15 | 12 33 | 7 37 | 16 17 | 16 36 | 16 1 | | n.a. |
| S 16 | 8 5 | 2n22 | 3 51 | 10 0 | 0 37 | 18 15 | 0 50 | 18 40 | 0 43 | 10 26 | 1 11 | 22 51 | 0 27 | 17 7 | 0 14 | 21 16 | 1 15 | 12 33 | 7 37 | 16 16 | 16 35 | 16 2 | | n.a. |
| M17 | 8 28 | 7 23 | 2 48 | 9 11 | 0 17 | 18 39 | 0 53 | 18 53 | 0 44 | 10 22 | 1 11 | 22 52 | 0 27 | 17 6 | 0 14 | 21 16 | 1 15 | 12 33 | 7 37 | 16 16 | 16 34 | 16 3 | | n.a. |
| T 18 | 8 51 | 12 0 | 1 32 | 8 21 | 0n 4 | 19 1 | 0 55 | 19 6 | 0 44 | 10 18 | 1 11 | 22 52 | 0 27 | 17 5 | 0 14 | 21 15 | 1 15 | 12 32 | 7 37 | 16 15 | 16 33 | 16 5 | | n.a. |
| W19 | 9 14 | 15 52 | 0 10 | 7 32 | 0 25 | 19 23 | 0 58 | 19 18 | 0 45 | 10 14 | 1 12 | 22 53 | 0 27 | 17 5 | 0 14 | 21 15 | 1 15 | 12 32 | 7 37 | 16 15 | 16 32 | 16 6 | | n.a. |
| T 20 | 9 36 | 18 37 | 1s13 | 6 45 | 0 44 | 19 45 | 1 0 | 19 30 | 0 46 | 10 10 | 1 12 | 22 53 | 0 27 | 17 4 | 0 14 | 21 15 | 1 15 | 12 32 | 7 37 | 16 15 | 16 31 | 16 7 | | n.a. |
| F 21 | 9 59 | 20 2 | 2 29 | 6 2 | 1 3 | 20 6 | 1 3 | 19 42 | 0 46 | 10 7 | 1 12 | 22 54 | 0 27 | 17 3 | 0 14 | 21 15 | 1 15 | 12 32 | 7 37 | 16 15 | 16 30 | 16 8 | | n.a. |
| S 22 | 10 21 | 20 5 | 3 34 | 5 24 | 1 20 | 20 27 | 1 5 | 19 54 | 0 47 | 10 3 | 1 12 | 22 54 | 0 27 | 17 3 | 0 14 | 21 15 | 1 15 | 12 31 | 7 37 | 16 16 | 16 30 | 16 9 | | n.a. |
| S 23 | 10 43 | 18 52 | 4 25 | 4 51 | 1 35 | 20 47 | 1 8 | 20 6 | 0 47 | 9 59 | 1 12 | 22 55 | 0 27 | 17 2 | 0 14 | 21 15 | 1 15 | 12 31 | 7 38 | 16 16 | 16 29 | 16 11 | | n.a. |
| M24 | 11 5 | 16 35 | 4 58 | 4 24 | 1 48 | 21 6 | 1 10 | 20 17 | 0 48 | 9 55 | 1 12 | 22 55 | 0 27 | 17 1 | 0 14 | 21 14 | 1 15 | 12 31 | 7 38 | 16 16 | 16 28 | 16 12 | | n.a. |
| T 25 | 11 27 | 13 29 | 5 15 | 4 3 | 2 0 | 21 25 | 1 13 | 20 28 | 0 48 | 9 52 | 1 13 | 22 56 | 0 26 | 17 1 | 0 14 | 21 14 | 1 15 | 12 31 | 7 38 | 16 16 | 16 27 | 16 13 | | n.a. |
| W26 | 11 49 | 9 49 | 5 15 | 3 49 | 2 9 | 21 44 | 1 15 | 20 39 | 0 48 | 9 48 | 1 13 | 22 56 | 0 26 | 17 0 | 0 14 | 21 14 | 1 15 | 12 30 | 7 38 | 16 16 | 16 26 | 16 14 | | n.a. |
| T 27 | 12 10 | 5 47 | 5 0 | 3 41 | 2 17 | 22 1 | 1 17 | 20 50 | 0 49 | 9 44 | 1 13 | 22 57 | 0 26 | 16 59 | 0 14 | 21 14 | 1 15 | 12 30 | 7 38 | 16 15 | 16 25 | 16 15 | | n.a. |
| F 28 | 12 31 | 1 35 | 4 31 | 3 39 | 2 22 | 22 18 | 1 20 | 21 1 | 0 49 | 9 41 | 1 13 | 22 57 | 0 26 | 16 59 | 0 14 | 21 14 | 1 15 | 12 30 | 7 38 | 16 15 | 16 24 | 16 16 | | n.a. |
| S 29 | 12 52 | 2s37 | 3 50 | 3 42 | 2 26 | 22 35 | 1 22 | 21 11 | 0 50 | 9 37 | 1 13 | 22 58 | 0 26 | 16 58 | 0 14 | 21 13 | 1 15 | 12 30 | 7 38 | 16 14 | 16 23 | 16 18 | | n.a. |
| S 30 | 13 13 | 6 40 | 2 59 | 3 50 | 2 29 | 22 51 | 1 24 | 21 22 | 0 50 | 9 34 | 1 14 | 22 58 | 0 26 | 16 57 | 0 14 | 21 13 | 1 15 | 12 29 | 7 38 | 16 14 | 16 22 | 16 19 | | n.a. |
| M31 | 13s34 | 10s25 | 2s 1 | 4s 3 | 2n30 | 23s 6 | 1s26 | 21s32 | 0s51 | 9n30 | 1n14 | 22s58 | 0n26 | 16n57 | 0s14 | 21n13 | 1s15 | 12n29 | 7s38 | 16s14 | 16s21 | 16s20 | | n.a. |

Julian Day Number = 1695033.5, Delta T = 03h08m30s
Ecliptic obliquity = 23°42'08, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°03'42, Lahiri = - 4°56'42 Julian Calendar 1 Oct. 73 BCE == Greg. Calendar 29 Sept. 073 BCE

The year -72 astronomical counting style corresponds to year 073 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 73 BCE
# geocentric

## NOVEMBER 73 BCE (-72) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 2 30 51 | 6♏41'48 | 3♏33 | 16♎41 | 8♐ 1 | 2♐19 | 8♍57 | 21♐16 | 17°R13 | 11°R50 | 27°R57 | 14°R 2 | 14♏24 | 14♏28 | n.a. | T 1 |
| W 2 | 2 34 48 | 7°42'47 | 15°21 | 17°30 | 9°15 | 3° 5 | 9° 6 | 21°22 | 17♉11 | 11♊48 | 27♉55 | 14°D 2 | 14°21 | 14°35 | n.a. | W 2 |
| T 3 | 2 38 44 | 8°43'48 | 27° 8 | 18°24 | 10°29 | 3°52 | 9°15 | 21°28 | 17° 8 | 11°47 | 27°54 | 14♏ 2 | 14°18 | 14°42 | n.a. | T 3 |
| F 4 | 2 42 41 | 9°44'50 | 8♐56 | 19°24 | 11°42 | 4°38 | 9°25 | 21°34 | 17° 6 | 11°46 | 27°53 | 14° 2 | 14°14 | 14°48 | n.a. | F 4 |
| S 5 | 2 46 37 | 10°45'52 | 20°50 | 20°28 | 12°56 | 5°24 | 9°34 | 21°39 | 17° 3 | 11°44 | 27°52 | 14° 3 | 14°11 | 14°55 | n.a. | S 5 |
| S 6 | 2 50 34 | 11°46'56 | 2♑50 | 21°36 | 14°10 | 6°10 | 9°43 | 21°45 | 17° 1 | 11°43 | 27°51 | 14° 3 | 14° 8 | 15° 2 | n.a. | S 6 |
| M 7 | 2 54 31 | 12°48'00 | 15° 1 | 22°46 | 15°24 | 6°56 | 9°52 | 21°51 | 16°58 | 11°41 | 27°50 | 14° 3 | 14° 5 | 15° 8 | n.a. | M 7 |
| T 8 | 2 58 27 | 13°49'05 | 27°27 | 24° 0 | 16°38 | 7°43 | 10° 1 | 21°58 | 16°55 | 11°40 | 27°49 | 14°R 4 | 14° 2 | 15°15 | n.a. | T 8 |
| W 9 | 3 2 24 | 14°50'10 | 10♒11 | 25°17 | 17°51 | 8°29 | 10° 9 | 22° 4 | 16°53 | 11°38 | 27°47 | 14°D 4 | 13°59 | 15°21 | n.a. | W 9 |
| T 10 | 3 6 20 | 15°51'16 | 23°17 | 26°35 | 19° 5 | 9°16 | 10°18 | 22°10 | 16°50 | 11°37 | 27°46 | 14° 4 | 13°55 | 15°28 | n.a. | T 10 |
| F 11 | 3 10 17 | 16°52'23 | 6♓48 | 27°55 | 20°19 | 10° 2 | 10°26 | 22°16 | 16°48 | 11°35 | 27°45 | 14° 4 | 13°52 | 15°35 | n.a. | F 11 |
| S 12 | 3 14 13 | 17°53'29 | 20°45 | 29°17 | 21°32 | 10°48 | 10°35 | 22°22 | 16°45 | 11°34 | 27°44 | 14° 4 | 13°49 | 15°41 | n.a. | S 12 |
| S 13 | 3 18 10 | 18°54'37 | 5♈ 9 | 0♏40 | 22°46 | 11°35 | 10°43 | 22°29 | 16°43 | 11°32 | 27°43 | 14° 4 | 13°46 | 15°48 | n.a. | S 13 |
| M14 | 3 22 6 | 19°55'45 | 19°55 | 2° 4 | 24° 0 | 12°21 | 10°51 | 22°35 | 16°40 | 11°31 | 27°42 | 14° 5 | 13°43 | 15°55 | n.a. | M14 |
| T 15 | 3 26 3 | 20°56'53 | 5♉ 0 | 3°29 | 25°13 | 13° 8 | 10°59 | 22°41 | 16°38 | 11°29 | 27°40 | 14° 5 | 13°39 | 16° 1 | n.a. | T 15 |
| W16 | 3 30 0 | 21°58'02 | 20°14 | 4°56 | 26°27 | 13°55 | 11° 6 | 22°48 | 16°35 | 11°28 | 27°39 | 14°R 5 | 13°36 | 16° 8 | n.a. | W16 |
| T 17 | 3 33 56 | 22°59'12 | 5♊27 | 6°23 | 27°40 | 14°41 | 11°14 | 22°54 | 16°33 | 11°26 | 27°38 | 14° 5 | 13°33 | 16°15 | n.a. | T 17 |
| F 18 | 3 37 53 | 24° 0'23 | 20°31 | 7°50 | 28°53 | 15°28 | 11°22 | 23° 1 | 16°30 | 11°25 | 27°37 | 14° 4 | 13°30 | 16°21 | n.a. | F 18 |
| S 19 | 3 41 49 | 25° 1'34 | 5♋15 | 9°18 | 0♑ 7 | 16°15 | 11°29 | 23° 7 | 16°27 | 11°23 | 27°36 | 14° 3 | 13°27 | 16°28 | n.a. | S 19 |
| S 20 | 3 45 46 | 26° 2'45 | 19°36 | 10°47 | 1°20 | 17° 1 | 11°36 | 23°14 | 16°25 | 11°21 | 27°35 | 14° 1 | 13°24 | 16°35 | n.a. | S 20 |
| M21 | 3 49 42 | 27° 3'58 | 3♌28 | 12°16 | 2°33 | 17°48 | 11°43 | 23°20 | 16°22 | 11°20 | 27°33 | 14° 0 | 13°20 | 16°41 | n.a. | M21 |
| T 22 | 3 53 39 | 28° 5'11 | 16°53 | 13°46 | 3°47 | 18°35 | 11°50 | 23°27 | 16°20 | 11°18 | 27°32 | 13°59 | 13°17 | 16°48 | n.a. | T 22 |
| W23 | 3 57 36 | 29° 6'25 | 29°52 | 15°16 | 5° 0 | 19°22 | 11°57 | 23°34 | 16°17 | 11°16 | 27°31 | 13°D59 | 13°14 | 16°55 | n.a. | W23 |
| T 24 | 4 1 32 | 0♐ 7'39 | 12♍28 | 16°46 | 6°13 | 20° 9 | 12° 4 | 23°40 | 16°15 | 11°15 | 27°30 | 13°59 | 13°11 | 17° 1 | n.a. | T 24 |
| F 25 | 4 5 29 | 1° 8'54 | 24°45 | 18°17 | 7°26 | 20°56 | 12°11 | 23°47 | 16°13 | 11°13 | 27°29 | 14° 0 | 13° 8 | 17° 8 | n.a. | F 25 |
| S 26 | 4 9 25 | 2°10'09 | 6♎49 | 19°48 | 8°39 | 21°43 | 12°17 | 23°54 | 16°10 | 11°11 | 27°27 | 14° 2 | 13° 5 | 17°14 | n.a. | S 26 |
| S 27 | 4 13 22 | 3°11'25 | 18°43 | 21°20 | 9°52 | 22°30 | 12°23 | 24° 1 | 16° 8 | 11°10 | 27°26 | 14° 3 | 13° 1 | 17°21 | n.a. | S 27 |
| M28 | 4 17 18 | 4°12'41 | 0♏32 | 22°51 | 11° 5 | 23°17 | 12°29 | 24° 7 | 16° 5 | 11° 8 | 27°25 | 14° 5 | 12°58 | 17°28 | n.a. | M28 |
| T 29 | 4 21 15 | 5°13'57 | 12°18 | 24°23 | 12°18 | 24° 4 | 12°35 | 24°14 | 16° 3 | 11° 6 | 27°24 | 14°R 5 | 12°55 | 17°34 | n.a. | T 29 |
| W30 | 4 25 11 | 6♐15'14 | 24♏ 6 | 25♏56 | 13♑31 | 24♐51 | 12♍41 | 24♐21 | 16♉ 1 | 11♊ 5 | 27♉23 | 14♏ 5 | 12♏52 | 17♏41 | n.a. | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 13s54 | 13s45 | 0s58 | 4s19 | 2n30 | 23s20 | 1s28 | 21s41 | 0s51 | 9n27 | 1n14 | 22s59 | 0n26 | 16n56 | 0s14 | 21n13 | 1s15 | 12n29 | 7s38 | 16s14 | 16s20 | 16s21 | | n.a. |
| W 2 | 14 14 | 16 30 | 0n 7 | 4 39 | 2 29 | 23 34 | 1 30 | 21 51 | 0 52 | 9 23 | 1 14 | 22 59 | 0 26 | 16 55 | 0 14 | 21 13 | 1 15 | 12 29 | 7 38 | 16 13 | 16 19 | 16 22 | | n.a. |
| T 3 | 14 34 | 18 34 | 1 12 | 5 2 | 2 27 | 23 47 | 1 32 | 22 0 | 0 52 | 9 20 | 1 14 | 23 0 | 0 26 | 16 55 | 0 14 | 21 13 | 1 15 | 12 28 | 7 38 | 16 14 | 16 18 | 16 23 | | n.a. |
| F 4 | 14 54 | 19 49 | 2 14 | 5 27 | 2 24 | 24 0 | 1 34 | 22 9 | 0 53 | 9 17 | 1 15 | 23 0 | 0 25 | 16 54 | 0 14 | 21 12 | 1 15 | 12 28 | 7 38 | 16 14 | 16 17 | 16 24 | | n.a. |
| S 5 | 15 13 | 20 12 | 3 11 | 5 55 | 2 21 | 24 11 | 1 36 | 22 18 | 0 53 | 9 13 | 1 15 | 23 1 | 0 25 | 16 53 | 0 14 | 21 12 | 1 15 | 12 28 | 7 38 | 16 14 | 16 16 | 16 26 | | n.a. |
| S 6 | 15 32 | 19 41 | 4 0 | 6 24 | 2 17 | 24 22 | 1 38 | 22 27 | 0 53 | 9 10 | 1 15 | 23 1 | 0 25 | 16 52 | 0 14 | 21 12 | 1 15 | 12 28 | 7 38 | 16 14 | 16 15 | 16 27 | | n.a. |
| M 7 | 15 51 | 18 14 | 4 39 | 6 55 | 2 12 | 24 33 | 1 40 | 22 35 | 0 54 | 9 7 | 1 15 | 23 2 | 0 25 | 16 52 | 0 14 | 21 12 | 1 15 | 12 27 | 7 38 | 16 14 | 16 14 | 16 28 | | n.a. |
| T 8 | 16 10 | 15 55 | 5 5 | 7 27 | 2 7 | 24 42 | 1 41 | 22 44 | 0 54 | 9 4 | 1 16 | 23 2 | 0 25 | 16 51 | 0 14 | 21 12 | 1 15 | 12 27 | 7 38 | 16 14 | 16 13 | 16 29 | | n.a. |
| W 9 | 16 28 | 12 47 | 5 18 | 8 0 | 2 1 | 24 51 | 1 43 | 22 52 | 0 55 | 9 1 | 1 16 | 23 3 | 0 25 | 16 50 | 0 14 | 21 11 | 1 15 | 12 27 | 7 38 | 16 14 | 16 12 | 16 30 | | n.a. |
| T 10 | 16 46 | 8 58 | 5 14 | 8 34 | 1 55 | 24 59 | 1 45 | 22 59 | 0 55 | 8 58 | 1 16 | 23 3 | 0 25 | 16 50 | 0 14 | 21 11 | 1 15 | 12 27 | 7 38 | 16 14 | 16 11 | 16 31 | | n.a. |
| F 11 | 17 4 | 4 34 | 4 54 | 9 9 | 1 49 | 25 7 | 1 46 | 23 7 | 0 55 | 8 55 | 1 16 | 23 4 | 0 25 | 16 49 | 0 14 | 21 11 | 1 15 | 12 26 | 7 38 | 16 14 | 16 11 | 16 32 | | n.a. |
| S 12 | 17 21 | 0n12 | 4 16 | 9 44 | 1 43 | 25 13 | 1 48 | 23 14 | 0 56 | 8 52 | 1 16 | 23 4 | 0 25 | 16 48 | 0 14 | 21 11 | 1 15 | 12 26 | 7 38 | 16 14 | 16 10 | 16 33 | | n.a. |
| S 13 | 17 38 | 5 7 | 3 20 | 10 20 | 1 36 | 25 19 | 1 49 | 23 21 | 0 56 | 8 49 | 1 17 | 23 5 | 0 25 | 16 47 | 0 14 | 21 10 | 1 15 | 12 26 | 7 38 | 16 14 | 16 9 | 16 34 | | n.a. |
| M14 | 17 55 | 9 53 | 2 11 | 10 56 | 1 29 | 25 24 | 1 50 | 23 27 | 0 56 | 8 46 | 1 17 | 23 5 | 0 24 | 16 47 | 0 14 | 21 10 | 1 15 | 12 26 | 7 38 | 16 14 | 16 8 | 16 36 | | n.a. |
| T 15 | 18 11 | 14 7 | 0 50 | 11 32 | 1 22 | 25 28 | 1 52 | 23 34 | 0 57 | 8 43 | 1 17 | 23 6 | 0 24 | 16 46 | 0 14 | 21 10 | 1 15 | 12 25 | 7 38 | 16 14 | 16 7 | 16 37 | | n.a. |
| W16 | 18 28 | 17 27 | 0s34 | 12 8 | 1 15 | 25 32 | 1 53 | 23 40 | 0 57 | 8 40 | 1 17 | 23 6 | 0 24 | 16 45 | 0 14 | 21 10 | 1 15 | 12 25 | 7 38 | 16 14 | 16 6 | 16 38 | | n.a. |
| T 17 | 18 43 | 19 33 | 1 56 | 12 43 | 1 8 | 25 35 | 1 54 | 23 46 | 0 58 | 8 37 | 1 18 | 23 6 | 0 24 | 16 44 | 0 14 | 21 10 | 1 15 | 12 25 | 7 38 | 16 14 | 16 5 | 16 39 | | n.a. |
| F 18 | 18 59 | 20 13 | 3 9 | 13 19 | 1 1 | 25 37 | 1 55 | 23 51 | 0 58 | 8 35 | 1 18 | 23 7 | 0 24 | 16 44 | 0 14 | 21 9 | 1 15 | 12 25 | 7 38 | 16 14 | 16 4 | 16 40 | | n.a. |
| S 19 | 19 14 | 19 28 | 4 8 | 13 54 | 0 54 | 25 38 | 1 56 | 23 57 | 0 58 | 8 32 | 1 18 | 23 7 | 0 24 | 16 43 | 0 14 | 21 9 | 1 15 | 12 24 | 7 38 | 16 14 | 16 3 | 16 41 | | n.a. |
| S 20 | 19 29 | 17 29 | 4 49 | 14 29 | 0 46 | 25 38 | 1 57 | 24 2 | 0 59 | 8 30 | 1 18 | 23 8 | 0 24 | 16 42 | 0 14 | 21 9 | 1 15 | 12 24 | 7 38 | 16 13 | 16 2 | 16 42 | | n.a. |
| M21 | 19 43 | 14 32 | 5 12 | 15 4 | 0 39 | 25 38 | 1 57 | 24 7 | 0 59 | 8 27 | 1 19 | 23 8 | 0 24 | 16 42 | 0 14 | 21 9 | 1 15 | 12 24 | 7 38 | 16 13 | 16 1 | 16 43 | | n.a. |
| T 22 | 19 57 | 10 55 | 5 17 | 15 38 | 0 32 | 25 37 | 1 58 | 24 11 | 0 59 | 8 25 | 1 19 | 23 9 | 0 24 | 16 41 | 0 14 | 21 8 | 1 15 | 12 24 | 7 37 | 16 13 | 16 0 | 16 44 | | n.a. |
| W23 | 20 11 | 6 53 | 5 5 | 16 12 | 0 25 | 25 35 | 1 59 | 24 16 | 0 59 | 8 22 | 1 19 | 23 9 | 0 24 | 16 40 | 0 14 | 21 8 | 1 15 | 12 24 | 7 37 | 16 12 | 15 59 | 16 45 | | n.a. |
| T 24 | 20 24 | 2 40 | 4 39 | 16 45 | 0 18 | 25 32 | 1 59 | 24 19 | 1 0 | 8 20 | 1 19 | 23 9 | 0 24 | 16 39 | 0 14 | 21 8 | 1 15 | 12 23 | 7 37 | 16 13 | 15 58 | 16 46 | | n.a. |
| F 25 | 20 37 | 1s34 | 4 1 | 17 18 | 0 11 | 25 29 | 2 0 | 24 23 | 1 0 | 8 18 | 1 20 | 23 10 | 0 23 | 16 39 | 0 14 | 21 8 | 1 15 | 12 23 | 7 37 | 16 13 | 15 57 | 16 47 | | n.a. |
| S 26 | 20 49 | 5 40 | 3 12 | 17 50 | 0 4 | 25 25 | 2 0 | 24 27 | 1 0 | 8 15 | 1 20 | 23 10 | 0 23 | 16 38 | 0 14 | 21 8 | 1 15 | 12 23 | 7 37 | 16 13 | 15 56 | 16 48 | | n.a. |
| S 27 | 21 1 | 9 30 | 2 16 | 18 21 | 0s 3 | 25 20 | 2 0 | 24 30 | 1 1 | 8 13 | 1 20 | 23 11 | 0 23 | 16 37 | 0 14 | 21 7 | 1 15 | 12 23 | 7 37 | 16 14 | 15 55 | 16 49 | | n.a. |
| M28 | 21 13 | 12 57 | 1 14 | 18 51 | 0 10 | 25 14 | 2 1 | 24 33 | 1 1 | 8 11 | 1 20 | 23 11 | 0 23 | 16 37 | 0 14 | 21 7 | 1 15 | 12 23 | 7 37 | 16 14 | 15 54 | 16 50 | | n.a. |
| T 29 | 21 24 | 15 51 | 0 10 | 19 21 | 0 17 | 25 8 | 2 1 | 24 35 | 1 1 | 8 9 | 1 21 | 23 11 | 0 23 | 16 36 | 0 14 | 21 7 | 1 15 | 12 22 | 7 37 | 16 14 | 15 53 | 16 52 | | n.a. |
| W30 | 21s35 | 18s 7 | 0n55 | 19s50 | 0s24 | 25s 0 | 2s 1 | 24s37 | 1s 1 | 8n 7 | 1n21 | 23s12 | 0n23 | 16n35 | 0s14 | 21n 7 | 1s15 | 12n22 | 7s37 | 16s14 | 15s52 | 16s53 | | n.a. |

Julian Day Number = 1695064.5, Delta T = 03h08m29s
Ecliptic obliquity = 23°42'07, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°03'38, Lahiri = - 4°56'38 Julian Calendar 1 Nov. 73 BCE == Greg. Calendar 30 Oct. 073 BCE

The year -72 astronomical counting style corresponds to year 073 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 73 BCE
# geocentric

## DECEMBER 73 BCE (-72) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 4 29 8 | 7♐16'31 | 5♐56 | 27♏28 | 14♑44 | 25♐38 | 12♍47 | 24♐28 | 15°R58 | 11°R 3 | 27°R22 | 14°R 3 | 12♏49 | 17♏48 | n.a. | T 1 |
| F 2 | 4 33 5 | 8°17'48 | 17°52 | 29° 1 | 15°57 | 26°25 | 12°52 | 24°35 | 15♑56 | 11♊ 1 | 27♑20 | 14♏ 0 | 12°45 | 17°54 | n.a. | F 2 |
| S 3 | 4 37 1 | 9°19'05 | 29°54 | 0♐34 | 17° 9 | 27°12 | 12°57 | 24°42 | 15°54 | 10°59 | 27°19 | 13°56 | 12°42 | 18° 1 | n.a. | S 3 |
| S 4 | 4 40 58 | 10°20'21 | 12♑ 5 | 2° 8 | 18°22 | 27°59 | 13° 3 | 24°49 | 15°51 | 10°58 | 27°18 | 13°52 | 12°39 | 18° 8 | n.a. | S 4 |
| M 5 | 4 44 54 | 11°21'38 | 24°27 | 3°42 | 19°35 | 28°46 | 13° 7 | 24°56 | 15°49 | 10°56 | 27°17 | 13°47 | 12°36 | 18°14 | n.a. | M 5 |
| T 6 | 4 48 51 | 12°22'54 | 7♒ 0 | 5°16 | 20°47 | 29°34 | 13°12 | 25° 3 | 15°47 | 10°54 | 27°16 | 13°42 | 12°33 | 18°21 | n.a. | T 6 |
| W 7 | 4 52 47 | 13°24'09 | 19°48 | 6°51 | 22° 0 | 0♑21 | 13°17 | 25°10 | 15°45 | 10°53 | 27°15 | 13°39 | 12°30 | 18°28 | n.a. | W 7 |
| T 8 | 4 56 44 | 14°25'24 | 2♓53 | 8°26 | 23°12 | 1° 8 | 13°21 | 25°17 | 15°43 | 10°51 | 27°13 | 13°37 | 12°26 | 18°34 | n.a. | T 8 |
| F 9 | 5 0 40 | 15°26'38 | 16°16 | 10° 1 | 24°24 | 1°55 | 13°26 | 25°24 | 15°40 | 10°49 | 27°12 | 13°D36 | 12°23 | 18°41 | n.a. | F 9 |
| S 10 | 5 4 37 | 16°27'52 | 29°59 | 11°37 | 25°37 | 2°43 | 13°30 | 25°31 | 15°38 | 10°48 | 27°11 | 13°37 | 12°20 | 18°47 | n.a. | S 10 |
| S 11 | 5 8 34 | 17°29'05 | 14♈ 5 | 13°13 | 26°49 | 3°30 | 13°34 | 25°38 | 15°36 | 10°46 | 27°10 | 13°38 | 12°17 | 18°54 | n.a. | S 11 |
| M12 | 5 12 30 | 18°30'18 | 28°31 | 14°49 | 28° 1 | 4°17 | 13°38 | 25°45 | 15°34 | 10°44 | 27° 9 | 13°40 | 12°14 | 19° 1 | n.a. | M12 |
| T 13 | 5 16 27 | 19°31'30 | 13♉16 | 16°26 | 29°13 | 5° 4 | 13°41 | 25°52 | 15°32 | 10°43 | 27° 8 | 13°R41 | 12°11 | 19° 7 | n.a. | T 13 |
| W14 | 5 20 23 | 20°32'41 | 28°15 | 18° 4 | 0♒25 | 5°52 | 13°45 | 25°59 | 15°30 | 10°41 | 27° 7 | 13°40 | 12° 7 | 19°14 | n.a. | W14 |
| T 15 | 5 24 20 | 21°33'52 | 13♊19 | 19°42 | 1°37 | 6°39 | 13°48 | 26° 6 | 15°28 | 10°39 | 27° 6 | 13°37 | 12° 4 | 19°21 | n.a. | T 15 |
| F 16 | 5 28 16 | 22°35'02 | 28°20 | 21°20 | 2°48 | 7°26 | 13°51 | 26°13 | 15°26 | 10°37 | 27° 5 | 13°32 | 12° 1 | 19°27 | n.a. | F 16 |
| S 17 | 5 32 13 | 23°36'11 | 13♋ 8 | 22°59 | 4° 0 | 8°14 | 13°54 | 26°21 | 15°25 | 10°36 | 27° 4 | 13°26 | 11°58 | 19°34 | n.a. | S 17 |
| S 18 | 5 36 10 | 24°37'20 | 27°36 | 24°39 | 5°11 | 9° 1 | 13°57 | 26°28 | 15°23 | 10°34 | 27° 3 | 13°20 | 11°55 | 19°41 | n.a. | S 18 |
| M19 | 5 40 6 | 25°38'28 | 11♌39 | 26°19 | 6°23 | 9°49 | 13°59 | 26°35 | 15°21 | 10°33 | 27° 2 | 13°13 | 11°51 | 19°47 | n.a. | M19 |
| T 20 | 5 44 3 | 26°39'36 | 25°13 | 27°59 | 7°34 | 10°36 | 14° 1 | 26°42 | 15°19 | 10°31 | 27° 1 | 13° 7 | 11°48 | 19°54 | n.a. | T 20 |
| W21 | 5 47 59 | 27°40'44 | 8♍20 | 29°40 | 8°45 | 11°23 | 14° 4 | 26°49 | 15°18 | 10°29 | 27° 0 | 13° 4 | 11°45 | 20° 1 | n.a. | W21 |
| T 22 | 5 51 56 | 28°41'51 | 21° 0 | 1♑22 | 9°57 | 12°11 | 14° 6 | 26°56 | 15°16 | 10°28 | 26°59 | 13° 1 | 11°42 | 20° 7 | n.a. | T 22 |
| F 23 | 5 55 52 | 29°42'57 | 3♎20 | 3° 4 | 11° 8 | 12°58 | 14° 7 | 27° 3 | 15°14 | 10°26 | 26°58 | 13°D 1 | 11°39 | 20°14 | n.a. | F 23 |
| S 24 | 5 59 49 | 0♑44'03 | 15°23 | 4°46 | 12°18 | 13°45 | 14° 9 | 27°10 | 15°13 | 10°25 | 26°57 | 13° 2 | 11°36 | 20°21 | n.a. | S 24 |
| S 25 | 6 3 45 | 1°45'08 | 27°16 | 6°29 | 13°29 | 14°33 | 14°10 | 27°17 | 15°11 | 10°23 | 26°56 | 13° 4 | 11°32 | 20°27 | n.a. | S 25 |
| M26 | 6 7 42 | 2°46'12 | 9♏ 3 | 8°13 | 14°40 | 15°20 | 14°12 | 27°25 | 15°10 | 10°21 | 26°55 | 13°R 5 | 11°29 | 20°34 | n.a. | M26 |
| T 27 | 6 11 39 | 3°47'16 | 20°48 | 9°57 | 15°51 | 16° 8 | 14°13 | 27°32 | 15° 8 | 10°20 | 26°54 | 13° 4 | 11°26 | 20°40 | n.a. | T 27 |
| W28 | 6 15 35 | 4°48'19 | 2♐38 | 11°42 | 17° 1 | 16°55 | 14°14 | 27°39 | 15° 7 | 10°18 | 26°53 | 13° 2 | 11°23 | 20°47 | n.a. | W28 |
| T 29 | 6 19 32 | 5°49'21 | 14°33 | 13°26 | 18°11 | 17°43 | 14°14 | 27°46 | 15° 5 | 10°17 | 26°52 | 12°57 | 11°20 | 20°54 | n.a. | T 29 |
| F 30 | 6 23 28 | 6°50'22 | 26°38 | 15°11 | 19°21 | 18°30 | 14°15 | 27°53 | 15° 4 | 10°15 | 26°51 | 12°50 | 11°17 | 21° 0 | n.a. | F 30 |
| S 31 | 6 27 25 | 7♑51'22 | 8♑53 | 16♑57 | 20♒32 | 19♑17 | 14♍15 | 28♐ 0 | 15♉ 3 | 10♊14 | 26♉50 | 12♏41 | 11♏13 | 21♏ 7 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21s46 | 19s36 | 1n58 | 20s18 | 0s30 | 24s53 | 2s 1 | 24s39 | 1s 2 | 8n 5 | 1n21 | 23s12 | 0n23 | 16n35 | 0s14 | 21n 6 | 1s15 | 12n22 | 7s37 | 16s14 | 15s51 | 16s54 | | n.a. |
| F 2 | 21 56 | 20 14 | 2 56 | 20 45 | 0 37 | 24 44 | 2 0 | 24 41 | 1 2 | 8 3 | 1 22 | 23 13 | 0 23 | 16 34 | 0 14 | 21 6 | 1 15 | 12 22 | 7 37 | 16 13 | 15 50 | 16 55 | | n.a. |
| S 3 | 22 5 | 19 56 | 3 46 | 21 12 | 0 43 | 24 34 | 2 0 | 24 42 | 1 2 | 8 1 | 1 22 | 23 13 | 0 23 | 16 33 | 0 14 | 21 6 | 1 15 | 12 22 | 7 37 | 16 12 | 15 49 | 16 56 | | n.a. |
| S 4 | 22 15 | 18 43 | 4 27 | 21 37 | 0 49 | 24 24 | 2 0 | 24 44 | 1 2 | 8 0 | 1 22 | 23 13 | 0 23 | 16 33 | 0 14 | 21 6 | 1 15 | 12 21 | 7 37 | 16 10 | 15 48 | 16 57 | | n.a. |
| M 5 | 22 23 | 16 37 | 4 56 | 22 1 | 0 55 | 24 13 | 1 59 | 24 44 | 1 3 | 7 58 | 1 22 | 23 14 | 0 23 | 16 32 | 0 14 | 21 5 | 1 15 | 12 21 | 7 37 | 16 9 | 15 47 | 16 58 | | n.a. |
| T 6 | 22 32 | 13 42 | 5 11 | 22 25 | 1 1 | 24 2 | 1 59 | 24 45 | 1 3 | 7 56 | 1 23 | 23 14 | 0 23 | 16 31 | 0 14 | 21 5 | 1 15 | 12 21 | 7 36 | 16 8 | 15 46 | 16 59 | | n.a. |
| W 7 | 22 39 | 10 6 | 5 12 | 22 47 | 1 6 | 23 50 | 1 58 | 24 45 | 1 3 | 7 55 | 1 23 | 23 14 | 0 22 | 16 31 | 0 14 | 21 5 | 1 15 | 12 21 | 7 36 | 16 7 | 15 45 | 17 0 | | n.a. |
| T 8 | 22 47 | 5 58 | 4 56 | 23 8 | 1 12 | 23 37 | 1 57 | 24 45 | 1 3 | 7 53 | 1 23 | 23 15 | 0 22 | 16 30 | 0 14 | 21 5 | 1 15 | 12 21 | 7 36 | 16 6 | 15 44 | 17 1 | | n.a. |
| F 9 | 22 54 | 1 26 | 4 24 | 23 28 | 1 17 | 23 23 | 1 57 | 24 45 | 1 3 | 7 52 | 1 24 | 23 15 | 0 22 | 16 30 | 0 14 | 21 5 | 1 15 | 12 21 | 7 36 | 16 6 | 15 43 | 17 2 | | n.a. |
| S 10 | 23 0 | 3n18 | 3 37 | 23 47 | 1 22 | 23 9 | 1 56 | 24 44 | 1 4 | 7 51 | 1 24 | 23 15 | 0 22 | 16 29 | 0 14 | 21 4 | 1 15 | 12 21 | 7 36 | 16 6 | 15 42 | 17 3 | | n.a. |
| S 11 | 23 6 | 7 59 | 2 35 | 24 4 | 1 27 | 22 54 | 1 55 | 24 43 | 1 4 | 7 49 | 1 24 | 23 16 | 0 22 | 16 28 | 0 14 | 21 4 | 1 15 | 12 20 | 7 36 | 16 6 | 15 41 | 17 4 | | n.a. |
| M12 | 23 12 | 12 20 | 1 22 | 24 20 | 1 31 | 22 38 | 1 54 | 24 42 | 1 4 | 7 48 | 1 24 | 23 16 | 0 22 | 16 28 | 0 14 | 21 4 | 1 15 | 12 20 | 7 36 | 16 7 | 15 40 | 17 5 | | n.a. |
| T 13 | 23 17 | 16 2 | 0 2 | 24 35 | 1 36 | 22 22 | 1 52 | 24 40 | 1 4 | 7 47 | 1 25 | 23 16 | 0 22 | 16 27 | 0 14 | 21 4 | 1 15 | 12 20 | 7 36 | 16 7 | 15 39 | 17 6 | | n.a. |
| W14 | 23 22 | 18 42 | 1s19 | 24 49 | 1 40 | 22 5 | 1 51 | 24 39 | 1 4 | 7 46 | 1 25 | 23 17 | 0 22 | 16 27 | 0 14 | 21 3 | 1 15 | 12 20 | 7 36 | 16 7 | 15 38 | 17 7 | | n.a. |
| T 15 | 23 26 | 20 5 | 2 35 | 25 1 | 1 43 | 21 48 | 1 50 | 24 36 | 1 5 | 7 45 | 1 25 | 23 17 | 0 22 | 16 26 | 0 14 | 21 3 | 1 15 | 12 20 | 7 35 | 16 6 | 15 37 | 17 8 | | n.a. |
| F 16 | 23 29 | 20 2 | 3 39 | 25 11 | 1 47 | 21 30 | 1 48 | 24 34 | 1 5 | 7 44 | 1 26 | 23 17 | 0 22 | 16 26 | 0 14 | 21 3 | 1 15 | 12 20 | 7 35 | 16 5 | 15 36 | 17 9 | | n.a. |
| S 17 | 23 33 | 18 36 | 4 28 | 25 21 | 1 50 | 21 11 | 1 46 | 24 31 | 1 5 | 7 43 | 1 26 | 23 17 | 0 22 | 16 25 | 0 14 | 21 3 | 1 15 | 12 20 | 7 35 | 16 3 | 15 36 | 17 10 | | n.a. |
| S 18 | 23 35 | 15 59 | 4 59 | 25 28 | 1 53 | 20 52 | 1 45 | 24 28 | 1 5 | 7 42 | 1 26 | 23 18 | 0 22 | 16 25 | 0 14 | 21 3 | 1 15 | 12 20 | 7 35 | 16 1 | 15 35 | 17 11 | | n.a. |
| M19 | 23 38 | 12 31 | 5 10 | 25 34 | 1 55 | 20 32 | 1 43 | 24 25 | 1 5 | 7 42 | 1 26 | 23 18 | 0 22 | 16 24 | 0 14 | 21 2 | 1 15 | 12 19 | 7 35 | 15 59 | 15 34 | 17 12 | | n.a. |
| T 20 | 23 40 | 8 30 | 5 3 | 25 39 | 1 58 | 20 12 | 1 41 | 24 21 | 1 5 | 7 41 | 1 27 | 23 18 | 0 21 | 16 24 | 0 14 | 21 2 | 1 15 | 12 19 | 7 35 | 15 57 | 15 33 | 17 12 | | n.a. |
| W21 | 23 41 | 4 12 | 4 41 | 25 42 | 2 0 | 19 51 | 1 39 | 24 18 | 1 5 | 7 40 | 1 27 | 23 18 | 0 21 | 16 23 | 0 14 | 21 2 | 1 15 | 12 19 | 7 35 | 15 56 | 15 32 | 17 13 | | n.a. |
| T 22 | 23 42 | 0s 9 | 4 5 | 25 43 | 2 1 | 19 30 | 1 37 | 24 13 | 1 5 | 7 40 | 1 27 | 23 19 | 0 21 | 16 23 | 0 14 | 21 2 | 1 15 | 12 19 | 7 35 | 15 55 | 15 31 | 17 14 | | n.a. |
| F 23 | 23 42 | 4 22 | 3 19 | 25 42 | 2 2 | 19 8 | 1 35 | 24 9 | 1 6 | 7 40 | 1 28 | 23 19 | 0 21 | 16 22 | 0 14 | 21 1 | 1 15 | 12 19 | 7 34 | 15 55 | 15 30 | 17 15 | | n.a. |
| S 24 | 23 42 | 8 20 | 2 24 | 25 40 | 2 3 | 18 46 | 1 32 | 24 4 | 1 6 | 7 39 | 1 28 | 23 19 | 0 21 | 16 22 | 0 14 | 21 1 | 1 15 | 12 19 | 7 34 | 15 55 | 15 29 | 17 16 | | n.a. |
| S 25 | 23 41 | 11 55 | 1 25 | 25 35 | 2 3 | 18 23 | 1 30 | 23 59 | 1 6 | 7 39 | 1 28 | 23 19 | 0 21 | 16 21 | 0 13 | 21 1 | 1 15 | 12 19 | 7 34 | 15 56 | 15 28 | 17 17 | | n.a. |
| M26 | 23 40 | 15 1 | 0 22 | 25 29 | 2 3 | 18 0 | 1 27 | 23 54 | 1 6 | 7 39 | 1 29 | 23 20 | 0 21 | 16 21 | 0 13 | 21 1 | 1 15 | 12 19 | 7 34 | 15 56 | 15 27 | 17 18 | | n.a. |
| T 27 | 23 39 | 17 29 | 0n42 | 25 21 | 2 2 | 17 36 | 1 25 | 23 48 | 1 6 | 7 39 | 1 29 | 23 20 | 0 21 | 16 20 | 0 13 | 21 1 | 1 15 | 12 19 | 7 34 | 15 56 | 15 26 | 17 19 | | n.a. |
| W28 | 23 37 | 19 13 | 1 43 | 25 11 | 2 1 | 17 12 | 1 22 | 23 42 | 1 6 | 7 39 | 1 29 | 23 20 | 0 21 | 16 20 | 0 13 | 21 0 | 1 15 | 12 19 | 7 34 | 15 55 | 15 25 | 17 20 | | n.a. |
| T 29 | 23 34 | 20 8 | 2 41 | 24 59 | 1 59 | 16 48 | 1 19 | 23 36 | 1 6 | 7 39 | 1 29 | 23 20 | 0 21 | 16 20 | 0 13 | 21 0 | 1 15 | 12 19 | 7 34 | 15 54 | 15 24 | 17 21 | | n.a. |
| F 30 | 23 31 | 20 7 | 3 32 | 24 45 | 1 57 | 16 23 | 1 16 | 23 30 | 1 6 | 7 39 | 1 30 | 23 20 | 0 21 | 16 19 | 0 13 | 21 0 | 1 15 | 12 19 | 7 33 | 15 52 | 15 23 | 17 22 | | n.a. |
| S 31 | 23s28 | 19s10 | 4n14 | 24s30 | 1s54 | 15s58 | 1s13 | 23s23 | 1s 6 | 7n39 | 1n30 | 23s21 | 0n21 | 16n19 | 0s13 | 21n 0 | 1s15 | 12n19 | 7s33 | 15s49 | 15s22 | 17s23 | | n.a. |

Julian Day Number = 1695094.5, Delta T = 03h08m28s
Ecliptic obliquity = 23°42'06, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°03'34, Lahiri = - 4°56'34 Julian Calendar 1 Dec. 73 BCE == Greg. Calendar 29 Nov. 073 BCE

The year -72 astronomical counting style corresponds to year 073 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 72 BCE
# geocentric

## JANUARY 72 BCE (-71) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 31 21 | 8♑52'21 | 21♑21 | 18♑42 | 21♒41 | 20♑ 5 | 14°R15 | 28♐ 7 | 15°R 2 | 10°R12 | 26°R49 | 12°R30 | 11♏10 | 21♏14 | n.a. | S 1 |
| M 2 | 6 35 18 | 9°53'19 | 4♒ 0 | 20°27 | 22°51 | 20°52 | 14♍15 | 28°14 | 15♉ 0 | 10♊11 | 26♉49 | 12♏19 | 11° 7 | 21°20 | n.a. | M 2 |
| T 3 | 6 39 14 | 10°54'15 | 16°51 | 22°12 | 24° 1 | 21°40 | 14°15 | 28°21 | 14°59 | 10°10 | 26°48 | 12° 8 | 11° 4 | 21°27 | n.a. | T 3 |
| W 4 | 6 43 11 | 11°55'10 | 29°53 | 23°57 | 25°10 | 22°27 | 14°14 | 28°28 | 14°58 | 10° 8 | 26°47 | 12° 0 | 11° 1 | 21°34 | n.a. | W 4 |
| T 5 | 6 47 8 | 12°56'04 | 13♓ 8 | 25°41 | 26°20 | 23°15 | 14°13 | 28°35 | 14°57 | 10° 7 | 26°46 | 11°53 | 10°57 | 21°40 | n.a. | T 5 |
| F 6 | 6 51 4 | 13°56'56 | 26°35 | 27°24 | 27°29 | 24° 2 | 14°13 | 28°42 | 14°56 | 10° 5 | 26°45 | 11°50 | 10°54 | 21°47 | n.a. | F 6 |
| S 7 | 6 55 1 | 14°57'46 | 10♈16 | 29° 6 | 28°38 | 24°49 | 14°11 | 28°49 | 14°55 | 10° 4 | 26°45 | 11°D48 | 10°51 | 21°54 | n.a. | S 7 |
| S 8 | 6 58 57 | 15°58'34 | 24°10 | 0♒46 | 29°47 | 25°37 | 14°10 | 28°56 | 14°54 | 10° 3 | 26°44 | 11°48 | 10°48 | 22° 0 | n.a. | S 8 |
| M 9 | 7 2 54 | 16°59'21 | 8♉19 | 2°24 | 0♓55 | 26°24 | 14° 9 | 29° 3 | 14°53 | 10° 1 | 26°43 | 11°R49 | 10°45 | 22° 7 | n.a. | M 9 |
| T 10 | 7 6 50 | 18° 0'07 | 22°41 | 4° 0 | 2° 4 | 27°12 | 14° 7 | 29°10 | 14°53 | 10° 0 | 26°42 | 11°48 | 10°42 | 22°14 | n.a. | T 10 |
| W11 | 7 10 47 | 19° 0'50 | 7♊14 | 5°33 | 3°12 | 27°59 | 14° 5 | 29°16 | 14°52 | 9°59 | 26°42 | 11°46 | 10°38 | 22°20 | n.a. | W11 |
| T 12 | 7 14 43 | 20° 1'32 | 21°54 | 7° 2 | 4°20 | 28°46 | 14° 3 | 29°23 | 14°51 | 9°58 | 26°41 | 11°41 | 10°35 | 22°27 | n.a. | T 12 |
| F 13 | 7 18 40 | 21° 2'12 | 6♋35 | 8°27 | 5°28 | 29°34 | 14° 1 | 29°30 | 14°51 | 9°56 | 26°41 | 11°33 | 10°32 | 22°34 | n.a. | F 13 |
| S 14 | 7 22 37 | 22° 2'51 | 21° 9 | 9°47 | 6°36 | 0♒21 | 13°59 | 29°37 | 14°50 | 9°55 | 26°40 | 11°23 | 10°29 | 22°40 | n.a. | S 14 |
| S 15 | 7 26 33 | 23° 3'28 | 5♌28 | 11° 2 | 7°43 | 1° 8 | 13°56 | 29°44 | 14°49 | 9°54 | 26°39 | 11°11 | 10°26 | 22°47 | n.a. | S 15 |
| M16 | 7 30 30 | 24° 4'04 | 19°27 | 12°11 | 8°50 | 1°56 | 13°53 | 29°50 | 14°49 | 9°53 | 26°39 | 11° 0 | 10°23 | 22°53 | n.a. | M16 |
| T 17 | 7 34 26 | 25° 4'37 | 3♍ 3 | 13°12 | 9°57 | 2°43 | 13°51 | 29°57 | 14°49 | 9°52 | 26°38 | 10°49 | 10°19 | 23° 0 | n.a. | T 17 |
| W18 | 7 38 23 | 26° 5'10 | 16°12 | 14° 6 | 11° 4 | 3°30 | 13°47 | 0♑ 4 | 14°48 | 9°51 | 26°38 | 10°41 | 10°16 | 23° 7 | n.a. | W18 |
| T 19 | 7 42 19 | 27° 5'41 | 28°57 | 14°52 | 12°11 | 4°17 | 13°44 | 0°10 | 14°48 | 9°50 | 26°37 | 10°35 | 10°13 | 23°13 | n.a. | T 19 |
| F 20 | 7 46 16 | 28° 6'11 | 11♎20 | 15°28 | 13°17 | 5° 5 | 13°41 | 0°17 | 14°48 | 9°49 | 26°37 | 10°32 | 10°10 | 23°20 | n.a. | F 20 |
| S 21 | 7 50 12 | 29° 6'39 | 23°26 | 15°56 | 14°23 | 5°52 | 13°37 | 0°23 | 14°47 | 9°48 | 26°36 | 10°31 | 10° 7 | 23°27 | n.a. | S 21 |
| S 22 | 7 54 9 | 0♒ 7'05 | 5♏20 | 16°13 | 15°29 | 6°39 | 13°33 | 0°30 | 14°47 | 9°47 | 26°36 | 10°31 | 10° 3 | 23°33 | n.a. | S 22 |
| M23 | 7 58 6 | 1° 7'31 | 17° 8 | 16°R21 | 16°34 | 7°26 | 13°29 | 0°36 | 14°47 | 9°46 | 26°35 | 10°31 | 10° 0 | 23°40 | n.a. | M23 |
| T 24 | 8 2 2 | 2° 7'54 | 28°55 | 16°18 | 17°40 | 8°13 | 13°25 | 0°43 | 14°47 | 9°45 | 26°35 | 10°29 | 9°57 | 23°47 | n.a. | T 24 |
| W25 | 8 5 59 | 3° 8'17 | 10♐47 | 16° 5 | 18°45 | 9° 0 | 13°21 | 0°49 | 14°D47 | 9°44 | 26°34 | 10°26 | 9°54 | 23°53 | n.a. | W25 |
| T 26 | 8 9 55 | 4° 8'37 | 22°48 | 15°43 | 19°49 | 9°48 | 13°16 | 0°56 | 14°47 | 9°43 | 26°34 | 10°20 | 9°51 | 24° 0 | n.a. | T 26 |
| F 27 | 8 13 52 | 5° 8'56 | 5♑ 1 | 15°12 | 20°54 | 10°35 | 13°12 | 1° 2 | 14°47 | 9°42 | 26°34 | 10°11 | 9°48 | 24° 7 | n.a. | F 27 |
| S 28 | 8 17 48 | 6° 9'13 | 17°28 | 14°32 | 21°58 | 11°22 | 13° 7 | 1° 8 | 14°47 | 9°42 | 26°33 | 10° 0 | 9°44 | 24°13 | n.a. | S 28 |
| S 29 | 8 21 45 | 7° 9'29 | 0♒12 | 13°46 | 23° 2 | 12° 9 | 13° 2 | 1°14 | 14°48 | 9°41 | 26°33 | 9°46 | 9°41 | 24°20 | n.a. | S 29 |
| M30 | 8 25 41 | 8° 9'42 | 13°11 | 12°53 | 24° 5 | 12°56 | 12°57 | 1°21 | 14°48 | 9°40 | 26°33 | 9°33 | 9°38 | 24°27 | n.a. | M30 |
| T 31 | 8 29 38 | 9♒ 9'54 | 26♒25 | 11♒56 | 25♓ 9 | 13♒43 | 12♍51 | 1♑27 | 14♉48 | 9♊39 | 26♉33 | 9♏19 | 9♏35 | 24♏33 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | | ☊ | | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | | decl | | decl | | decl | lat |
| S 1 | 23s24 | 17s18 | 4n44 | 24s12 | 1s50 | 15s32 | 1s10 | 23s16 | 1s 6 | 7n39 | 1n30 | 23s21 | 0n21 | 16n19 | 0s13 | 21n 0 | 1s14 | 12n19 | 7s33 | 15s45 | | 15s21 | | 17s24 | | | n.a. |
| M 2 | 23 20 | 14 35 | 5 2 | 23 52 | 1 46 | 15 6 | 1 7 | 23 9 | 1 6 | 7 39 | 1 31 | 23 21 | 0 21 | 16 18 | 0 13 | 21 0 | 1 14 | 12 19 | 7 33 | 15 42 | | 15 20 | | 17 25 | | | n.a. |
| T 3 | 23 15 | 11 8 | 5 4 | 23 31 | 1 41 | 14 40 | 1 4 | 23 1 | 1 6 | 7 40 | 1 31 | 23 21 | 0 20 | 16 18 | 0 13 | 20 59 | 1 14 | 12 19 | 7 33 | 15 39 | | 15 19 | | 17 26 | | | n.a. |
| W 4 | 23 10 | 7 7 | 4 50 | 23 7 | 1 36 | 14 13 | 1 0 | 22 54 | 1 6 | 7 40 | 1 31 | 23 21 | 0 20 | 16 18 | 0 13 | 20 59 | 1 14 | 12 19 | 7 33 | 15 36 | | 15 18 | | 17 26 | | | n.a. |
| T 5 | 23 4 | 2 41 | 4 21 | 22 42 | 1 29 | 13 46 | 0 57 | 22 46 | 1 6 | 7 41 | 1 32 | 23 21 | 0 20 | 16 17 | 0 13 | 20 59 | 1 14 | 12 19 | 7 32 | 15 34 | | 15 17 | | 17 27 | | | n.a. |
| F 6 | 22 58 | 1n57 | 3 37 | 22 15 | 1 22 | 13 18 | 0 53 | 22 37 | 1 6 | 7 41 | 1 32 | 23 21 | 0 20 | 16 17 | 0 13 | 20 59 | 1 14 | 12 19 | 7 32 | 15 33 | | 15 16 | | 17 28 | | | n.a. |
| S 7 | 22 51 | 6 33 | 2 40 | 21 47 | 1 14 | 12 51 | 0 49 | 22 29 | 1 6 | 7 42 | 1 32 | 23 22 | 0 20 | 16 17 | 0 13 | 20 59 | 1 14 | 12 19 | 7 32 | 15 32 | | 15 15 | | 17 29 | | | n.a. |
| S 8 | 22 44 | 10 55 | 1 33 | 21 17 | 1 6 | 12 23 | 0 46 | 22 20 | 1 6 | 7 43 | 1 32 | 23 22 | 0 20 | 16 16 | 0 13 | 20 59 | 1 14 | 12 19 | 7 32 | 15 33 | | 15 14 | | 17 30 | | | n.a. |
| M 9 | 22 37 | 14 44 | 0 19 | 20 45 | 0 56 | 11 55 | 0 42 | 22 11 | 1 6 | 7 44 | 1 33 | 23 22 | 0 20 | 16 16 | 0 13 | 20 58 | 1 14 | 12 19 | 7 32 | 15 33 | | 15 13 | | 17 31 | | | n.a. |
| T 10 | 22 29 | 17 43 | 0s58 | 20 13 | 0 46 | 11 26 | 0 38 | 22 2 | 1 6 | 7 45 | 1 33 | 23 22 | 0 20 | 16 16 | 0 13 | 20 58 | 1 14 | 12 19 | 7 32 | 15 33 | | 15 12 | | 17 32 | | | n.a. |
| W11 | 22 20 | 19 36 | 2 11 | 19 39 | 0 35 | 10 58 | 0 34 | 21 52 | 1 6 | 7 46 | 1 33 | 23 22 | 0 20 | 16 16 | 0 13 | 20 58 | 1 14 | 12 19 | 7 31 | 15 32 | | 15 11 | | 17 33 | | | n.a. |
| T 12 | 22 11 | 20 11 | 3 16 | 19 5 | 0 23 | 10 29 | 0 29 | 21 42 | 1 6 | 7 47 | 1 34 | 23 22 | 0 20 | 16 16 | 0 13 | 20 58 | 1 14 | 12 19 | 7 31 | 15 30 | | 15 10 | | 17 34 | | | n.a. |
| F 13 | 22 2 | 19 24 | 4 8 | 18 31 | 0 10 | 10 0 | 0 25 | 21 32 | 1 6 | 7 48 | 1 34 | 23 22 | 0 20 | 16 15 | 0 13 | 20 58 | 1 14 | 12 19 | 7 31 | 15 28 | | 15 9 | | 17 34 | | | n.a. |
| S 14 | 21 52 | 17 21 | 4 44 | 17 56 | 0n 3 | 9 31 | 0 21 | 21 22 | 1 6 | 7 49 | 1 34 | 23 22 | 0 20 | 16 15 | 0 13 | 20 58 | 1 14 | 12 19 | 7 31 | 15 25 | | 15 8 | | 17 35 | | | n.a. |
| S 15 | 21 42 | 14 15 | 5 1 | 17 22 | 0 17 | 9 1 | 0 16 | 21 12 | 1 6 | 7 50 | 1 34 | 23 22 | 0 20 | 16 15 | 0 13 | 20 58 | 1 14 | 12 19 | 7 31 | 15 21 | | 15 7 | | 17 36 | | | n.a. |
| M16 | 21 32 | 10 25 | 4 59 | 16 49 | 0 32 | 8 32 | 0 12 | 21 1 | 1 6 | 7 52 | 1 35 | 23 22 | 0 20 | 16 15 | 0 13 | 20 57 | 1 14 | 12 19 | 7 30 | 15 17 | | 15 6 | | 17 37 | | | n.a. |
| T 17 | 21 21 | 6 9 | 4 40 | 16 17 | 0 48 | 8 2 | 0 7 | 20 50 | 1 6 | 7 53 | 1 35 | 23 23 | 0 20 | 16 15 | 0 13 | 20 57 | 1 14 | 12 19 | 7 30 | 15 14 | | 15 5 | | 17 38 | | | n.a. |
| W18 | 21 10 | 1 43 | 4 7 | 15 46 | 1 3 | 7 32 | 0 3 | 20 39 | 1 6 | 7 54 | 1 35 | 23 23 | 0 20 | 16 15 | 0 13 | 20 57 | 1 14 | 12 19 | 7 30 | 15 11 | | 15 4 | | 17 39 | | | n.a. |
| T 19 | 20 58 | 2s39 | 3 22 | 15 17 | 1 20 | 7 2 | 0n 2 | 20 27 | 1 5 | 7 56 | 1 36 | 23 23 | 0 19 | 16 15 | 0 13 | 20 57 | 1 14 | 12 19 | 7 30 | 15 10 | | 15 3 | | 17 40 | | | n.a. |
| F 20 | 20 46 | 6 48 | 2 28 | 14 51 | 1 36 | 6 32 | 0 7 | 20 16 | 1 5 | 7 58 | 1 36 | 23 23 | 0 19 | 16 15 | 0 13 | 20 57 | 1 14 | 12 19 | 7 30 | 15 9 | | 15 2 | | 17 40 | | | n.a. |
| S 21 | 20 34 | 10 35 | 1 29 | 14 27 | 1 52 | 6 2 | 0 12 | 20 4 | 1 5 | 7 59 | 1 36 | 23 23 | 0 19 | 16 15 | 0 13 | 20 57 | 1 14 | 12 19 | 7 29 | 15 8 | | 15 1 | | 17 41 | | | n.a. |
| S 22 | 20 21 | 13 52 | 0 27 | 14 6 | 2 8 | 5 32 | 0 17 | 19 52 | 1 5 | 8 1 | 1 36 | 23 23 | 0 19 | 16 15 | 0 13 | 20 57 | 1 14 | 12 19 | 7 29 | 15 8 | | 15 0 | | 17 42 | | | n.a. |
| M23 | 20 8 | 16 34 | 0n35 | 13 49 | 2 24 | 5 1 | 0 22 | 19 40 | 1 5 | 8 3 | 1 37 | 23 23 | 0 19 | 16 15 | 0 13 | 20 57 | 1 14 | 12 19 | 7 29 | 15 8 | | 14 59 | | 17 43 | | | n.a. |
| T 24 | 19 54 | 18 35 | 1 36 | 13 35 | 2 39 | 4 31 | 0 27 | 19 27 | 1 5 | 8 5 | 1 37 | 23 23 | 0 19 | 16 15 | 0 13 | 20 57 | 1 14 | 12 19 | 7 29 | 15 8 | | 14 58 | | 17 44 | | | n.a. |
| W25 | 19 40 | 19 47 | 2 33 | 13 26 | 2 54 | 4 1 | 0 32 | 19 14 | 1 5 | 8 6 | 1 37 | 23 23 | 0 19 | 16 15 | 0 13 | 20 56 | 1 14 | 12 20 | 7 29 | 15 7 | | 14 57 | | 17 45 | | | n.a. |
| T 26 | 19 26 | 20 7 | 3 24 | 13 20 | 3 7 | 3 30 | 0 37 | 19 2 | 1 5 | 8 8 | 1 37 | 23 23 | 0 19 | 16 15 | 0 13 | 20 56 | 1 14 | 12 20 | 7 28 | 15 5 | | 14 55 | | 17 45 | | | n.a. |
| F 27 | 19 11 | 19 30 | 4 6 | 13 17 | 3 19 | 3 0 | 0 43 | 18 49 | 1 4 | 8 10 | 1 38 | 23 23 | 0 19 | 16 15 | 0 13 | 20 56 | 1 13 | 12 20 | 7 28 | 15 2 | | 14 54 | | 17 46 | | | n.a. |
| S 28 | 18 56 | 17 57 | 4 38 | 13 19 | 3 29 | 2 29 | 0 48 | 18 35 | 1 4 | 8 13 | 1 38 | 23 23 | 0 19 | 16 15 | 0 13 | 20 56 | 1 13 | 12 20 | 7 28 | 14 58 | | 14 53 | | 17 47 | | | n.a. |
| S 29 | 18 41 | 15 31 | 4 56 | 13 24 | 3 37 | 1 59 | 0 54 | 18 22 | 1 4 | 8 15 | 1 38 | 23 23 | 0 19 | 16 15 | 0 13 | 20 56 | 1 13 | 12 20 | 7 28 | 14 54 | | 14 52 | | 17 48 | | | n.a. |
| M30 | 18 25 | 12 15 | 5 0 | 13 33 | 3 44 | 1 28 | 0 59 | 18 8 | 1 4 | 8 17 | 1 38 | 23 23 | 0 19 | 16 15 | 0 13 | 20 56 | 1 13 | 12 20 | 7 28 | 14 50 | | 14 51 | | 17 49 | | | n.a. |
| T 31 | 18s10 | 8s21 | 4n47 | 13s45 | 3n48 | 0s58 | 1n 5 | 17s54 | 1s 4 | 8n19 | 1n39 | 23s23 | 0n19 | 16n15 | 0s13 | 20n56 | 1s13 | 12n20 | 7s27 | 14s45 | | 14s50 | | 17s49 | | | n.a. |

Julian Day Number = 1695125.5, Delta T = 03h08m27s
Ecliptic obliquity = 23°42'06, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°03'30, Lahiri = - 4°56'29 Julian Calendar 1 Jan. 72 BCE == Greg. Calendar 30 Dec. 073 BCE

The year -71 astronomical counting style corresponds to year 072 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 72 BCE
# geocentric

## FEBRUARY 72 BCE (-71) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 8 33 35 | 10♒10'03 | 9♓51 | 10°R55 | 26♓12 | 14♒30 | 12°R46 | 1♋33 | 14♉49 | 9°R39 | 26°R32 | 9°R 8 | 9♏32 | 24♏40 | n.a. | W 1 |
| T 2 | 8 37 31 | 11°10'11 | 23°27 | 9♒53 | 27°14 | 15°17 | 12♍41 | 1°39 | 14°49 | 9♊38 | 26♉32 | 9♏ 0 | 9°28 | 24°47 | n.a. | T 2 |
| F 3 | 8 41 28 | 12°10'16 | 7♈11 | 8°51 | 28°16 | 16° 4 | 12°35 | 1°45 | 14°49 | 9°37 | 26°32 | 8°54 | 9°25 | 24°53 | n.a. | F 3 |
| S 4 | 8 45 24 | 13°10'19 | 21° 3 | 7°49 | 29°18 | 16°51 | 12°29 | 1°51 | 14°50 | 9°37 | 26°32 | 8°52 | 9°22 | 25° 0 | n.a. | S 4 |
| S 5 | 8 49 21 | 14°10'20 | 5♉ 0 | 6°51 | 0♈19 | 17°38 | 12°23 | 1°57 | 14°51 | 9°36 | 26°32 | 8°51 | 9°19 | 25° 6 | n.a. | S 5 |
| M 6 | 8 53 17 | 15°10'18 | 19° 3 | 5°56 | 1°21 | 18°24 | 12°17 | 2° 3 | 14°51 | 9°36 | 26°31 | 8°51 | 9°16 | 25°13 | n.a. | M 6 |
| T 7 | 8 57 14 | 16°10'14 | 3♊11 | 5° 6 | 2°21 | 19°11 | 12°11 | 2° 8 | 14°52 | 9°35 | 26°31 | 8°50 | 9°13 | 25°20 | n.a. | T 7 |
| W 8 | 9 1 10 | 17°10'08 | 17°24 | 4°21 | 3°21 | 19°58 | 12° 4 | 2°14 | 14°53 | 9°35 | 26°31 | 8°48 | 9° 9 | 25°26 | n.a. | W 8 |
| T 9 | 9 5 7 | 18°10'00 | 1♋38 | 3°41 | 4°21 | 20°45 | 11°58 | 2°20 | 14°53 | 9°34 | 26°31 | 8°42 | 9° 6 | 25°33 | n.a. | T 9 |
| F 10 | 9 9 4 | 19° 9'49 | 15°51 | 3° 8 | 5°20 | 21°32 | 11°51 | 2°25 | 14°54 | 9°34 | 26°31 | 8°34 | 9° 3 | 25°40 | n.a. | F 10 |
| S 11 | 9 13 0 | 20° 9'36 | 29°58 | 2°42 | 6°19 | 22°18 | 11°45 | 2°31 | 14°55 | 9°34 | 26°D31 | 8°24 | 9° 0 | 25°46 | n.a. | S 11 |
| S 12 | 9 16 57 | 21° 9'21 | 13♌55 | 2°22 | 7°17 | 23° 5 | 11°38 | 2°37 | 14°56 | 9°33 | 26°31 | 8°12 | 8°57 | 25°53 | n.a. | S 12 |
| M13 | 9 20 53 | 22° 9'03 | 27°37 | 2° 9 | 8°15 | 23°51 | 11°31 | 2°42 | 14°57 | 9°33 | 26°31 | 8° 0 | 8°54 | 26° 0 | n.a. | M13 |
| T 14 | 9 24 50 | 23° 8'44 | 10♍59 | 2° 2 | 9°13 | 24°38 | 11°24 | 2°47 | 14°58 | 9°33 | 26°31 | 7°48 | 8°50 | 26° 6 | n.a. | T 14 |
| W15 | 9 28 46 | 24° 8'22 | 24° 2 | 2°D 1 | 10° 9 | 25°25 | 11°17 | 2°53 | 14°59 | 9°33 | 26°31 | 7°39 | 8°47 | 26°13 | n.a. | W15 |
| T 16 | 9 32 43 | 25° 7'58 | 6♎43 | 2° 6 | 11° 6 | 26°11 | 11°10 | 2°58 | 15° 0 | 9°32 | 26°31 | 7°33 | 8°44 | 26°20 | n.a. | T 16 |
| F 17 | 9 36 39 | 26° 7'33 | 19° 6 | 2°17 | 12° 1 | 26°58 | 11° 3 | 3° 3 | 15° 2 | 9°32 | 26°31 | 7°29 | 8°41 | 26°26 | n.a. | F 17 |
| S 18 | 9 40 36 | 27° 7'06 | 1♏13 | 2°33 | 12°56 | 27°44 | 10°56 | 3° 8 | 15° 3 | 9°32 | 26°32 | 7°27 | 8°38 | 26°33 | n.a. | S 18 |
| S 19 | 9 44 32 | 28° 6'36 | 13° 8 | 2°54 | 13°51 | 28°30 | 10°48 | 3°13 | 15° 4 | 9°32 | 26°32 | 7°D27 | 8°34 | 26°40 | n.a. | S 19 |
| M20 | 9 48 29 | 29° 6'05 | 24°58 | 3°21 | 14°45 | 29°17 | 10°41 | 3°18 | 15° 5 | 9°32 | 26°32 | 7°R28 | 8°31 | 26°46 | n.a. | M20 |
| T 21 | 9 52 26 | 0♓ 5'33 | 6♐47 | 3°51 | 15°38 | 0♓ 3 | 10°33 | 3°23 | 15° 7 | 9°D32 | 26°32 | 7°28 | 8°28 | 26°53 | n.a. | T 21 |
| W22 | 9 56 22 | 1° 4'58 | 18°40 | 4°27 | 16°30 | 0°49 | 10°26 | 3°28 | 15° 8 | 9°32 | 26°32 | 7°26 | 8°25 | 27° 0 | n.a. | W22 |
| T 23 | 10 0 19 | 2° 4'21 | 0♑43 | 5° 6 | 17°22 | 1°36 | 10°18 | 3°33 | 15°10 | 9°32 | 26°33 | 7°22 | 8°22 | 27° 6 | n.a. | T 23 |
| F 24 | 10 4 15 | 3° 3'43 | 13° 1 | 5°49 | 18°13 | 2°22 | 10°11 | 3°38 | 15°11 | 9°32 | 26°33 | 7°16 | 8°19 | 27°13 | n.a. | F 24 |
| S 25 | 10 8 12 | 4° 3'02 | 25°36 | 6°36 | 19° 4 | 3° 8 | 10° 3 | 3°42 | 15°13 | 9°32 | 26°33 | 7° 7 | 8°15 | 27°19 | n.a. | S 25 |
| S 26 | 10 12 8 | 5° 2'20 | 8♒31 | 7°26 | 19°53 | 3°54 | 9°56 | 3°47 | 15°15 | 9°32 | 26°34 | 6°57 | 8°12 | 27°26 | n.a. | S 26 |
| M27 | 10 16 5 | 6° 1'35 | 21°46 | 8°19 | 20°42 | 4°40 | 9°48 | 3°52 | 15°16 | 9°33 | 26°34 | 6°46 | 8° 9 | 27°33 | n.a. | M27 |
| T 28 | 10 20 1 | 7♓ 0'49 | 5♓20 | 9♒15 | 21♈30 | 5♓27 | 9♍40 | 3♋56 | 15♉18 | 9♊33 | 26♉34 | 6♏36 | 8♏ 6 | 27♏39 | n.a. | T 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 17s53 | 3s58 | 4n19 | 13s59 | 3n50 | 0s27 | 1n10 | 17s40 | 1s 4 | 8n21 | 1n39 | 23s23 | 0n19 | 16n15 | 0s13 | 20n56 | 1s13 | 12n21 | 7s27 | 14s42 | 14s49 | 17s50 | | n.a. |
| T 2 | 17 37 | 0n40 | 3 35 | 14 16 | 3 50 | 0n 3 | 1 16 | 17 26 | 1 3 | 8 24 | 1 39 | 23 23 | 0 19 | 16 15 | 0 13 | 20 56 | 1 13 | 12 21 | 7 27 | 14 39 | 14 48 | 17 51 | | n.a. |
| F 3 | 17 20 | 5 19 | 2 39 | 14 35 | 3 48 | 0 33 | 1 22 | 17 12 | 1 3 | 8 26 | 1 39 | 23 23 | 0 19 | 16 16 | 0 13 | 20 56 | 1 13 | 12 21 | 7 27 | 14 37 | 14 47 | 17 52 | | n.a. |
| S 4 | 17 3 | 9 44 | 1 33 | 14 54 | 3 44 | 1 3 | 1 28 | 16 57 | 1 3 | 8 29 | 1 39 | 23 23 | 0 19 | 16 16 | 0 13 | 20 56 | 1 13 | 12 21 | 7 27 | 14 37 | 14 46 | 17 53 | | n.a. |
| S 5 | 16 45 | 13 39 | 0 20 | 15 15 | 3 38 | 1 33 | 1 33 | 16 43 | 1 3 | 8 31 | 1 40 | 23 23 | 0 18 | 16 16 | 0 13 | 20 56 | 1 13 | 12 21 | 7 26 | 14 36 | 14 45 | 17 53 | | n.a. |
| M 6 | 16 28 | 16 49 | 0s54 | 15 36 | 3 30 | 2 3 | 1 39 | 16 28 | 1 3 | 8 34 | 1 40 | 23 23 | 0 18 | 16 16 | 0 13 | 20 56 | 1 13 | 12 21 | 7 26 | 14 36 | 14 44 | 17 54 | | n.a. |
| T 7 | 16 10 | 18 59 | 2 5 | 15 57 | 3 21 | 2 33 | 1 45 | 16 13 | 1 2 | 8 36 | 1 40 | 23 23 | 0 18 | 16 16 | 0 13 | 20 56 | 1 13 | 12 22 | 7 26 | 14 36 | 14 43 | 17 55 | | n.a. |
| W 8 | 15 52 | 19 58 | 3 9 | 16 18 | 3 10 | 3 3 | 1 51 | 15 58 | 1 2 | 8 39 | 1 40 | 23 23 | 0 18 | 16 17 | 0 13 | 20 56 | 1 13 | 12 22 | 7 26 | 14 35 | 14 42 | 17 56 | | n.a. |
| T 9 | 15 33 | 19 41 | 4 1 | 16 39 | 2 59 | 3 32 | 1 57 | 15 43 | 1 2 | 8 42 | 1 40 | 23 23 | 0 18 | 16 17 | 0 13 | 20 56 | 1 13 | 12 22 | 7 25 | 14 34 | 14 41 | 17 56 | | n.a. |
| F 10 | 15 14 | 18 9 | 4 38 | 16 58 | 2 46 | 4 2 | 2 3 | 15 27 | 1 2 | 8 44 | 1 41 | 23 23 | 0 18 | 16 17 | 0 13 | 20 56 | 1 13 | 12 22 | 7 25 | 14 31 | 14 40 | 17 57 | | n.a. |
| S 11 | 14 55 | 15 32 | 4 58 | 17 17 | 2 33 | 4 31 | 2 10 | 15 12 | 1 1 | 8 47 | 1 41 | 23 23 | 0 18 | 16 17 | 0 13 | 20 56 | 1 13 | 12 22 | 7 25 | 14 27 | 14 39 | 17 58 | | n.a. |
| S 12 | 14 36 | 12 3 | 5 0 | 17 35 | 2 20 | 5 0 | 2 16 | 14 56 | 1 1 | 8 50 | 1 41 | 23 22 | 0 18 | 16 18 | 0 13 | 20 56 | 1 13 | 12 23 | 7 25 | 14 24 | 14 38 | 17 59 | | n.a. |
| M13 | 14 17 | 8 0 | 4 44 | 17 51 | 2 6 | 5 29 | 2 22 | 14 40 | 1 1 | 8 52 | 1 41 | 23 22 | 0 18 | 16 18 | 0 12 | 20 56 | 1 13 | 12 23 | 7 25 | 14 20 | 14 37 | 17 59 | | n.a. |
| T 14 | 13 57 | 3 38 | 4 13 | 18 6 | 1 52 | 5 57 | 2 28 | 14 24 | 1 1 | 8 55 | 1 41 | 23 22 | 0 18 | 16 18 | 0 12 | 20 56 | 1 13 | 12 23 | 7 24 | 14 16 | 14 36 | 18 0 | | n.a. |
| W15 | 13 37 | 0s48 | 3 29 | 18 20 | 1 38 | 6 26 | 2 34 | 14 8 | 1 0 | 8 58 | 1 41 | 23 22 | 0 18 | 16 19 | 0 12 | 20 56 | 1 13 | 12 23 | 7 24 | 14 13 | 14 35 | 18 1 | | n.a. |
| T 16 | 13 17 | 5 4 | 2 36 | 18 33 | 1 24 | 6 54 | 2 41 | 13 52 | 1 0 | 9 1 | 1 41 | 23 22 | 0 18 | 16 19 | 0 12 | 20 56 | 1 13 | 12 23 | 7 24 | 14 11 | 14 34 | 18 2 | | n.a. |
| F 17 | 12 57 | 9 2 | 1 36 | 18 44 | 1 10 | 7 21 | 2 47 | 13 36 | 1 0 | 9 4 | 1 42 | 23 22 | 0 18 | 16 19 | 0 12 | 20 56 | 1 12 | 12 24 | 7 24 | 14 10 | 14 33 | 18 2 | | n.a. |
| S 18 | 12 36 | 12 32 | 0 33 | 18 53 | 0 57 | 7 49 | 2 53 | 13 19 | 1 0 | 9 7 | 1 42 | 23 22 | 0 18 | 16 20 | 0 12 | 20 56 | 1 12 | 12 24 | 7 24 | 14 9 | 14 32 | 18 3 | | n.a. |
| S 19 | 12 16 | 15 28 | 0n30 | 19 1 | 0 43 | 8 16 | 2 59 | 13 3 | 0 59 | 9 10 | 1 42 | 23 22 | 0 18 | 16 20 | 0 12 | 20 56 | 1 12 | 12 24 | 7 23 | 14 9 | 14 31 | 18 4 | | n.a. |
| M20 | 11 55 | 17 44 | 1 32 | 19 8 | 0 30 | 8 43 | 3 6 | 12 46 | 0 59 | 9 13 | 1 42 | 23 22 | 0 18 | 16 21 | 0 12 | 20 56 | 1 12 | 12 24 | 7 23 | 14 9 | 14 30 | 18 5 | | n.a. |
| T 21 | 11 34 | 19 13 | 2 30 | 19 13 | 0 18 | 9 10 | 3 12 | 12 29 | 0 59 | 9 16 | 1 42 | 23 22 | 0 18 | 16 21 | 0 12 | 20 56 | 1 12 | 12 25 | 7 23 | 14 9 | 14 29 | 18 5 | | n.a. |
| W22 | 11 12 | 19 52 | 3 21 | 19 16 | 0 6 | 9 36 | 3 18 | 12 12 | 0 58 | 9 19 | 1 42 | 23 22 | 0 18 | 16 22 | 0 12 | 20 56 | 1 12 | 12 25 | 7 23 | 14 9 | 14 28 | 18 6 | | n.a. |
| T 23 | 10 51 | 19 37 | 4 5 | 19 18 | 0s 6 | 10 2 | 3 25 | 11 56 | 0 58 | 9 22 | 1 42 | 23 22 | 0 17 | 16 22 | 0 12 | 20 56 | 1 12 | 12 25 | 7 22 | 14 7 | 14 27 | 18 7 | | n.a. |
| F 24 | 10 30 | 18 27 | 4 38 | 19 19 | 0 18 | 10 28 | 3 31 | 11 38 | 0 58 | 9 25 | 1 42 | 23 22 | 0 17 | 16 22 | 0 12 | 20 56 | 1 12 | 12 25 | 7 22 | 14 5 | 14 26 | 18 8 | | n.a. |
| S 25 | 10 8 | 16 22 | 4 58 | 19 17 | 0 29 | 10 53 | 3 37 | 11 21 | 0 57 | 9 28 | 1 42 | 23 22 | 0 17 | 16 23 | 0 12 | 20 56 | 1 12 | 12 26 | 7 22 | 14 2 | 14 25 | 18 8 | | n.a. |
| S 26 | 9 46 | 13 26 | 5 4 | 19 15 | 0 39 | 11 18 | 3 44 | 11 4 | 0 57 | 9 31 | 1 42 | 23 22 | 0 17 | 16 23 | 0 12 | 20 56 | 1 12 | 12 26 | 7 22 | 13 59 | 14 24 | 18 9 | | n.a. |
| M27 | 9 24 | 9 46 | 4 54 | 19 10 | 0 49 | 11 43 | 3 50 | 10 47 | 0 57 | 9 34 | 1 43 | 23 21 | 0 17 | 16 24 | 0 12 | 20 56 | 1 12 | 12 26 | 7 22 | 13 55 | 14 23 | 18 10 | | n.a. |
| T 28 | 9s 2 | 5s31 | 4n27 | 19s 5 | 0s59 | 12n 7 | 3n56 | 10s29 | 0s56 | 9n37 | 1n43 | 23s21 | 0n17 | 16n24 | 0s12 | 20n56 | 1s12 | 12n27 | 7s21 | 13s52 | 14s22 | 18s10 | | n.a. |

Julian Day Number = 1695156.5, Delta T = 03h08m26s
Ecliptic obliquity = 23°42'06, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°03'25, Lahiri = - 4°56'25 Julian Calendar 1 Feb. 72 BCE == Greg. Calendar 30 Jan. 072 BCE

The year -71 astronomical counting style corresponds to year 072 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 72 BCE
# geocentric

## MARCH 72 BCE (-71) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 10 23 58 | 8♓ 0'00 | 19♓10 | 10♒14 | 22♈17 | 6♓13 | 9°R32 | 4♑ 0 | 15♉20 | 9♊33 | 26♉35 | 6°R27 | 8♏ 3 | 27♏46 | n.a. | W 1 |
| T 2 | 10 27 55 | 8°59'09 | 3♈13 | 11°16 | 23° 3 | 6°59 | 9♍25 | 4° 5 | 15°22 | 9°33 | 26°35 | 6♏21 | 8° 0 | 27°53 | n.a. | T 2 |
| F 3 | 10 31 51 | 9°58'15 | 17°22 | 12°20 | 23°49 | 7°44 | 9°17 | 4° 9 | 15°23 | 9°34 | 26°36 | 6°17 | 7°56 | 27°59 | n.a. | F 3 |
| S 4 | 10 35 48 | 10°57'20 | 1♉36 | 13°27 | 24°33 | 8°30 | 9° 9 | 4°13 | 15°25 | 9°34 | 26°36 | 6°D15 | 7°53 | 28° 6 | n.a. | S 4 |
| S 5 | 10 39 44 | 11°56'22 | 15°50 | 14°36 | 25°16 | 9°16 | 9° 1 | 4°17 | 15°27 | 9°34 | 26°36 | 6°16 | 7°50 | 28°13 | n.a. | S 5 |
| M 6 | 10 43 41 | 12°55'22 | 0♊ 2 | 15°48 | 25°59 | 10° 2 | 8°54 | 4°21 | 15°29 | 9°35 | 26°37 | 6°17 | 7°47 | 28°19 | n.a. | M 6 |
| T 7 | 10 47 37 | 13°54'19 | 14°11 | 17° 1 | 26°40 | 10°48 | 8°46 | 4°25 | 15°31 | 9°35 | 26°37 | 6°R17 | 7°44 | 28°26 | n.a. | T 7 |
| W 8 | 10 51 34 | 14°53'14 | 28°14 | 18°17 | 27°20 | 11°34 | 8°38 | 4°29 | 15°33 | 9°36 | 26°38 | 6°16 | 7°40 | 28°33 | n.a. | W 8 |
| T 9 | 10 55 30 | 15°52'06 | 12♋12 | 19°35 | 27°59 | 12°19 | 8°31 | 4°33 | 15°35 | 9°36 | 26°39 | 6°13 | 7°37 | 28°39 | n.a. | T 9 |
| F 10 | 10 59 27 | 16°50'56 | 26° 2 | 20°54 | 28°36 | 13° 5 | 8°23 | 4°36 | 15°38 | 9°37 | 26°39 | 6° 8 | 7°34 | 28°46 | n.a. | F 10 |
| S 11 | 11 3 24 | 17°49'44 | 9♌42 | 22°16 | 29°13 | 13°50 | 8°16 | 4°40 | 15°40 | 9°37 | 26°40 | 6° 2 | 7°31 | 28°53 | n.a. | S 11 |
| S 12 | 11 7 20 | 18°48'30 | 23°12 | 23°39 | 29°48 | 14°36 | 8° 8 | 4°43 | 15°42 | 9°38 | 26°40 | 5°54 | 7°28 | 28°59 | n.a. | S 12 |
| M13 | 11 11 17 | 19°47'13 | 6♍29 | 25° 4 | 0♉21 | 15°21 | 8° 1 | 4°47 | 15°44 | 9°39 | 26°41 | 5°46 | 7°25 | 29° 6 | n.a. | M13 |
| T 14 | 11 15 13 | 20°45'54 | 19°30 | 26°31 | 0°54 | 16° 7 | 7°53 | 4°50 | 15°47 | 9°39 | 26°42 | 5°38 | 7°21 | 29°13 | n.a. | T 14 |
| W15 | 11 19 10 | 21°44'33 | 2♎16 | 28° 0 | 1°24 | 16°52 | 7°46 | 4°53 | 15°49 | 9°40 | 26°42 | 5°32 | 7°18 | 29°19 | n.a. | W15 |
| T 16 | 11 23 6 | 22°43'10 | 14°47 | 29°30 | 1°54 | 17°38 | 7°39 | 4°56 | 15°51 | 9°41 | 26°43 | 5°28 | 7°15 | 29°26 | n.a. | T 16 |
| F 17 | 11 27 3 | 23°41'44 | 27° 3 | 1♓ 2 | 2°21 | 18°23 | 7°31 | 5° 0 | 15°54 | 9°42 | 26°44 | 5°26 | 7°12 | 29°33 | n.a. | F 17 |
| S 18 | 11 30 59 | 24°40'18 | 9♏ 6 | 2°36 | 2°47 | 19° 8 | 7°24 | 5° 3 | 15°56 | 9°42 | 26°45 | 5°D26 | 7° 9 | 29°39 | n.a. | S 18 |
| S 19 | 11 34 56 | 25°38'49 | 21° 1 | 4°11 | 3°11 | 19°53 | 7°17 | 5° 5 | 15°59 | 9°43 | 26°45 | 5°27 | 7° 5 | 29°46 | n.a. | S 19 |
| M20 | 11 38 52 | 26°37'19 | 2♐51 | 5°48 | 3°34 | 20°39 | 7°10 | 5° 8 | 16° 1 | 9°44 | 26°46 | 5°28 | 7° 2 | 29°53 | n.a. | M20 |
| T 21 | 11 42 49 | 27°35'46 | 14°40 | 7°27 | 3°55 | 21°24 | 7° 3 | 5°11 | 16° 4 | 9°45 | 26°47 | 5°30 | 6°59 | 29°59 | n.a. | T 21 |
| W22 | 11 46 46 | 28°34'13 | 26°34 | 9° 7 | 4°14 | 22° 9 | 6°57 | 5°14 | 16° 7 | 9°46 | 26°48 | 5°R31 | 6°56 | 0♐ 6 | n.a. | W22 |
| T 23 | 11 50 42 | 29°32'37 | 8♑38 | 10°50 | 4°30 | 22°54 | 6°50 | 5°16 | 16° 9 | 9°47 | 26°49 | 5°30 | 6°53 | 0°13 | n.a. | T 23 |
| F 24 | 11 54 39 | 0♈31'00 | 20°56 | 12°33 | 4°45 | 23°39 | 6°43 | 5°19 | 16°12 | 9°48 | 26°49 | 5°28 | 6°50 | 0°19 | n.a. | F 24 |
| S 25 | 11 58 35 | 1°29'21 | 3♒33 | 14°19 | 4°58 | 24°24 | 6°37 | 5°21 | 16°15 | 9°49 | 26°50 | 5°25 | 6°46 | 0°26 | n.a. | S 25 |
| S 26 | 12 2 32 | 2°27'40 | 16°32 | 16° 6 | 5° 9 | 25° 9 | 6°30 | 5°23 | 16°17 | 9°50 | 26°51 | 5°21 | 6°43 | 0°32 | n.a. | S 26 |
| M27 | 12 6 28 | 3°25'58 | 29°54 | 17°55 | 5°18 | 25°53 | 6°24 | 5°25 | 16°20 | 9°51 | 26°52 | 5°16 | 6°40 | 0°39 | n.a. | M27 |
| T 28 | 12 10 25 | 4°24'14 | 13♓40 | 19°45 | 5°24 | 26°38 | 6°18 | 5°27 | 16°23 | 9°52 | 26°53 | 5°11 | 6°37 | 0°46 | n.a. | T 28 |
| W29 | 12 14 21 | 5°22'28 | 27°47 | 21°37 | 5°28 | 27°23 | 6°12 | 5°29 | 16°26 | 9°53 | 26°54 | 5° 7 | 6°34 | 0°52 | n.a. | W29 |
| T 30 | 12 18 18 | 6°20'40 | 12♈11 | 23°31 | 5°R30 | 28° 7 | 6° 6 | 5°31 | 16°29 | 9°55 | 26°55 | 5° 4 | 6°31 | 0°59 | n.a. | T 30 |
| F 31 | 12 22 14 | 7♈18'50 | 26♈46 | 25♓27 | 5♉29 | 28♓52 | 6♍ 0 | 5♑33 | 16♉32 | 9♊56 | 26♉56 | 5♏ 2 | 6♏27 | 1♐ 6 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| W 1 | 8s40 | 0s54 | 3n44 | 18s57 | 1s 8 | 12n31 | 4n 2 | 10s12 | 0s56 | 9n40 | 1n43 | 23s21 | 0n17 | 16n25 | 0s12 | 20n57 | 1s12 | 12n27 | 7s21 | 13s49 | 14s21 | 18s11 | | | n.a. |
| T 2 | 8 17 | 3n51 | 2 47 | 18 48 | 1 16 | 12 54 | 4 9 | 9 54 | 0 56 | 9 43 | 1 43 | 23 21 | 0 17 | 16 26 | 0 12 | 20 57 | 1 12 | 12 27 | 7 21 | 13 47 | 14 20 | 18 12 | | | n.a. |
| F 3 | 7 55 | 8 25 | 1 40 | 18 38 | 1 24 | 13 17 | 4 15 | 9 37 | 0 55 | 9 45 | 1 43 | 23 21 | 0 17 | 16 26 | 0 12 | 20 57 | 1 12 | 12 27 | 7 21 | 13 46 | 14 19 | 18 12 | | | n.a. |
| S 4 | 7 32 | 12 33 | 0 25 | 18 26 | 1 32 | 13 39 | 4 21 | 9 19 | 0 55 | 9 48 | 1 43 | 23 21 | 0 17 | 16 27 | 0 12 | 20 57 | 1 12 | 12 28 | 7 21 | 13 45 | 14 17 | 18 13 | | | n.a. |
| S 5 | 7 10 | 15 57 | 0s51 | 18 12 | 1 39 | 14 1 | 4 27 | 9 1 | 0 55 | 9 51 | 1 43 | 23 21 | 0 17 | 16 27 | 0 12 | 20 57 | 1 12 | 12 28 | 7 20 | 13 45 | 14 16 | 18 14 | | | n.a. |
| M 6 | 6 47 | 18 21 | 2 4 | 17 57 | 1 46 | 14 22 | 4 33 | 8 43 | 0 54 | 9 54 | 1 43 | 23 21 | 0 17 | 16 28 | 0 12 | 20 57 | 1 12 | 12 28 | 7 20 | 13 46 | 14 15 | 18 14 | | | n.a. |
| T 7 | 6 24 | 19 37 | 3 9 | 17 41 | 1 52 | 14 43 | 4 39 | 8 25 | 0 54 | 9 57 | 1 43 | 23 21 | 0 17 | 16 29 | 0 12 | 20 57 | 1 12 | 12 29 | 7 20 | 13 46 | 14 14 | 18 15 | | | n.a. |
| W 8 | 6 1 | 19 39 | 4 3 | 17 23 | 1 58 | 15 3 | 4 45 | 8 8 | 0 53 | 10 0 | 1 43 | 23 21 | 0 17 | 16 29 | 0 12 | 20 57 | 1 12 | 12 29 | 7 20 | 13 45 | 14 13 | 18 16 | | | n.a. |
| T 9 | 5 38 | 18 28 | 4 41 | 17 3 | 2 3 | 15 23 | 4 51 | 7 50 | 0 53 | 10 3 | 1 43 | 23 21 | 0 17 | 16 30 | 0 12 | 20 57 | 1 11 | 12 29 | 7 20 | 13 44 | 14 12 | 18 16 | | | n.a. |
| F 10 | 5 15 | 16 13 | 5 3 | 16 42 | 2 7 | 15 42 | 4 56 | 7 32 | 0 53 | 10 6 | 1 43 | 23 21 | 0 17 | 16 30 | 0 12 | 20 58 | 1 11 | 12 30 | 7 19 | 13 43 | 14 11 | 18 17 | | | n.a. |
| S 11 | 4 52 | 13 5 | 5 7 | 16 19 | 2 11 | 16 0 | 5 2 | 7 13 | 0 52 | 10 9 | 1 43 | 23 21 | 0 17 | 16 31 | 0 12 | 20 58 | 1 11 | 12 30 | 7 19 | 13 41 | 14 10 | 18 18 | | | n.a. |
| S 12 | 4 29 | 9 19 | 4 54 | 15 54 | 2 15 | 16 18 | 5 8 | 6 55 | 0 52 | 10 12 | 1 43 | 23 20 | 0 17 | 16 32 | 0 12 | 20 58 | 1 11 | 12 30 | 7 19 | 13 38 | 14 9 | 18 18 | | | n.a. |
| M13 | 4 5 | 5 8 | 4 25 | 15 28 | 2 18 | 16 35 | 5 13 | 6 37 | 0 51 | 10 14 | 1 43 | 23 20 | 0 17 | 16 32 | 0 12 | 20 58 | 1 11 | 12 31 | 7 19 | 13 35 | 14 8 | 18 19 | | | n.a. |
| T 14 | 3 42 | 0 47 | 3 43 | 15 1 | 2 21 | 16 52 | 5 18 | 6 19 | 0 51 | 10 17 | 1 43 | 23 20 | 0 16 | 16 33 | 0 12 | 20 58 | 1 11 | 12 31 | 7 19 | 13 33 | 14 7 | 18 20 | | | n.a. |
| W15 | 3 19 | 3s30 | 2 50 | 14 32 | 2 23 | 17 8 | 5 23 | 6 1 | 0 51 | 10 20 | 1 42 | 23 20 | 0 16 | 16 34 | 0 12 | 20 58 | 1 11 | 12 31 | 7 18 | 13 31 | 14 6 | 18 20 | | | n.a. |
| T 16 | 2 55 | 7 34 | 1 50 | 14 2 | 2 25 | 17 23 | 5 28 | 5 42 | 0 50 | 10 23 | 1 42 | 23 20 | 0 16 | 16 35 | 0 12 | 20 58 | 1 11 | 12 32 | 7 18 | 13 29 | 14 5 | 18 21 | | | n.a. |
| F 17 | 2 32 | 11 14 | 0 45 | 13 29 | 2 26 | 17 37 | 5 33 | 5 24 | 0 50 | 10 25 | 1 42 | 23 20 | 0 16 | 16 35 | 0 12 | 20 59 | 1 11 | 12 32 | 7 18 | 13 29 | 14 4 | 18 22 | | | n.a. |
| S 18 | 2 8 | 14 22 | 0n20 | 12 56 | 2 26 | 17 51 | 5 38 | 5 6 | 0 49 | 10 28 | 1 42 | 23 20 | 0 16 | 16 36 | 0 12 | 20 59 | 1 11 | 12 32 | 7 18 | 13 29 | 14 3 | 18 22 | | | n.a. |
| S 19 | 1 45 | 16 52 | 1 24 | 12 21 | 2 26 | 18 4 | 5 42 | 4 48 | 0 49 | 10 30 | 1 42 | 23 20 | 0 16 | 16 37 | 0 12 | 20 59 | 1 11 | 12 33 | 7 18 | 13 29 | 14 2 | 18 23 | | | n.a. |
| M20 | 1 21 | 18 36 | 2 24 | 11 44 | 2 26 | 18 16 | 5 47 | 4 29 | 0 48 | 10 33 | 1 42 | 23 20 | 0 16 | 16 38 | 0 12 | 20 59 | 1 11 | 12 33 | 7 17 | 13 29 | 14 1 | 18 23 | | | n.a. |
| T 21 | 0 58 | 19 32 | 3 18 | 11 6 | 2 25 | 18 27 | 5 51 | 4 11 | 0 48 | 10 35 | 1 42 | 23 20 | 0 16 | 16 38 | 0 12 | 20 59 | 1 11 | 12 34 | 7 17 | 13 30 | 14 0 | 18 24 | | | n.a. |
| W22 | 0 34 | 19 36 | 4 3 | 10 27 | 2 23 | 18 37 | 5 55 | 3 52 | 0 47 | 10 38 | 1 42 | 23 20 | 0 16 | 16 39 | 0 12 | 20 59 | 1 11 | 12 34 | 7 17 | 13 30 | 13 59 | 18 25 | | | n.a. |
| T 23 | 0 11 | 18 47 | 4 39 | 9 46 | 2 21 | 18 46 | 5 58 | 3 34 | 0 47 | 10 40 | 1 42 | 23 20 | 0 16 | 16 40 | 0 12 | 21 0 | 1 11 | 12 34 | 7 17 | 13 30 | 13 58 | 18 25 | | | n.a. |
| F 24 | 0n12 | 17 4 | 5 2 | 9 3 | 2 19 | 18 54 | 6 2 | 3 16 | 0 47 | 10 43 | 1 42 | 23 20 | 0 16 | 16 41 | 0 12 | 21 0 | 1 11 | 12 35 | 7 17 | 13 29 | 13 57 | 18 26 | | | n.a. |
| S 25 | 0 36 | 14 31 | 5 12 | 8 19 | 2 16 | 19 2 | 6 5 | 2 57 | 0 46 | 10 45 | 1 42 | 23 20 | 0 16 | 16 41 | 0 12 | 21 0 | 1 11 | 12 35 | 7 16 | 13 28 | 13 55 | 18 26 | | | n.a. |
| S 26 | 0 59 | 11 11 | 5 6 | 7 34 | 2 12 | 19 8 | 6 7 | 2 39 | 0 46 | 10 47 | 1 41 | 23 20 | 0 16 | 16 42 | 0 12 | 21 0 | 1 11 | 12 35 | 7 16 | 13 27 | 13 54 | 18 27 | | | n.a. |
| M27 | 1 23 | 7 12 | 4 44 | 6 47 | 2 8 | 19 13 | 6 10 | 2 20 | 0 45 | 10 50 | 1 41 | 23 20 | 0 16 | 16 43 | 0 12 | 21 0 | 1 11 | 12 36 | 7 16 | 13 25 | 13 53 | 18 28 | | | n.a. |
| T 28 | 1 46 | 2 44 | 4 5 | 5 59 | 2 3 | 19 17 | 6 12 | 2 2 | 0 45 | 10 52 | 1 41 | 23 20 | 0 16 | 16 44 | 0 12 | 21 1 | 1 11 | 12 36 | 7 16 | 13 23 | 13 52 | 18 28 | | | n.a. |
| W29 | 2 9 | 2n 1 | 3 10 | 5 9 | 1 58 | 19 20 | 6 13 | 1 44 | 0 44 | 10 54 | 1 41 | 23 20 | 0 16 | 16 45 | 0 12 | 21 1 | 1 10 | 12 36 | 7 16 | 13 22 | 13 51 | 18 29 | | | n.a. |
| T 30 | 2 33 | 6 44 | 2 2 | 4 19 | 1 52 | 19 22 | 6 15 | 1 25 | 0 44 | 10 56 | 1 41 | 23 20 | 0 16 | 16 46 | 0 12 | 21 1 | 1 10 | 12 37 | 7 16 | 13 21 | 13 50 | 18 29 | | | n.a. |
| F 31 | 2n56 | 11n 8 | 0n45 | 3s27 | 1s46 | 19n23 | 6n16 | 1s 7 | 0s43 | 10n58 | 1n41 | 23s20 | 0n16 | 16n46 | 0s12 | 21n 1 | 1s10 | 12n37 | 7s15 | 13s21 | 13s49 | 18s30 | | | n.a. |

Julian Day Number = 1695184.5, Delta T = 03h08m25s
Ecliptic obliquity = 23°42'07, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°03'22, Lahiri = - 4°56'21 Julian Calendar 1 March 72 BCE == Greg. Calendar 27 Feb. 072 BCE

The year -71 astronomical counting style corresponds to year 072 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 72 BCE
# geocentric

## APRIL 72 BCE (-71) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 26 11 | 8♈16'59 | 11♉26 | 27♓24 | 5°R26 | 29♓37 | 5°R55 | 5♑35 | 16♉34 | 9♊57 | 26♉57 | 5°D 2 | 6♏24 | 1♐12 | n.a. | S 1 |
| S 2 | 12 30 8 | 9°15'06 | 26° 4 | 29°23 | 5♉21 | 0♈21 | 5♍49 | 5°36 | 16°37 | 9°58 | 26°58 | 5♏ 3 | 6°21 | 1°19 | n.a. | S 2 |
| M 3 | 12 34 4 | 10°13'10 | 10♊35 | 1♈23 | 5°13 | 1° 6 | 5°44 | 5°38 | 16°40 | 10° 0 | 26°59 | 5° 5 | 6°18 | 1°26 | n.a. | M 3 |
| T 4 | 12 38 1 | 11°11'13 | 24°56 | 3°26 | 5° 3 | 1°50 | 5°39 | 5°39 | 16°43 | 10° 1 | 27° 0 | 5° 6 | 6°15 | 1°32 | n.a. | T 4 |
| W 5 | 12 41 57 | 12° 9'14 | 9♋ 3 | 5°29 | 4°50 | 2°34 | 5°34 | 5°41 | 16°46 | 10° 2 | 27° 1 | 5°R 6 | 6°11 | 1°39 | n.a. | W 5 |
| T 6 | 12 45 54 | 13° 7'12 | 22°56 | 7°34 | 4°35 | 3°19 | 5°29 | 5°42 | 16°50 | 10° 4 | 27° 2 | 5° 6 | 6° 8 | 1°46 | n.a. | T 6 |
| F 7 | 12 49 50 | 14° 5'09 | 6♌33 | 9°40 | 4°17 | 4° 3 | 5°24 | 5°43 | 16°53 | 10° 5 | 27° 3 | 5° 5 | 6° 5 | 1°52 | n.a. | F 7 |
| S 8 | 12 53 47 | 15° 3'03 | 19°55 | 11°48 | 3°57 | 4°47 | 5°19 | 5°44 | 16°56 | 10° 6 | 27° 4 | 5° 3 | 6° 2 | 1°59 | n.a. | S 8 |
| S 9 | 12 57 43 | 16° 0'56 | 3♍ 3 | 13°56 | 3°35 | 5°31 | 5°15 | 5°45 | 16°59 | 10° 8 | 27° 5 | 5° 0 | 5°59 | 2° 6 | n.a. | S 9 |
| M10 | 13 1 40 | 16°58'47 | 15°56 | 16° 6 | 3°11 | 6°15 | 5°11 | 5°46 | 17° 2 | 10° 9 | 27° 6 | 4°58 | 5°56 | 2°12 | n.a. | M10 |
| T 11 | 13 5 37 | 17°56'36 | 28°36 | 18°16 | 2°44 | 6°59 | 5° 6 | 5°47 | 17° 5 | 10°11 | 27° 8 | 4°55 | 5°52 | 2°19 | n.a. | T 11 |
| W12 | 13 9 33 | 18°54'23 | 11♎ 3 | 20°26 | 2°16 | 7°43 | 5° 3 | 5°47 | 17° 8 | 10°12 | 27° 9 | 4°53 | 5°49 | 2°26 | n.a. | W12 |
| T 13 | 13 13 30 | 19°52'09 | 23°19 | 22°37 | 1°45 | 8°27 | 4°59 | 5°48 | 17°12 | 10°14 | 27°10 | 4°52 | 5°46 | 2°32 | n.a. | T 13 |
| F 14 | 13 17 26 | 20°49'53 | 5♏25 | 24°47 | 1°13 | 9°11 | 4°55 | 5°48 | 17°15 | 10°15 | 27°11 | 4°D52 | 5°43 | 2°39 | n.a. | F 14 |
| S 15 | 13 21 23 | 21°47'36 | 17°22 | 26°57 | 0°40 | 9°55 | 4°52 | 5°49 | 17°18 | 10°17 | 27°12 | 4°52 | 5°40 | 2°46 | n.a. | S 15 |
| S 16 | 13 25 19 | 22°45'18 | 29°14 | 29° 6 | 0° 5 | 10°39 | 4°48 | 5°49 | 17°21 | 10°19 | 27°13 | 4°53 | 5°36 | 2°52 | n.a. | S 16 |
| M17 | 13 29 16 | 23°42'58 | 11♐ 3 | 1♉15 | 29♈29 | 11°22 | 4°45 | 5°49 | 17°25 | 10°20 | 27°15 | 4°54 | 5°33 | 2°59 | n.a. | M17 |
| T 18 | 13 33 12 | 24°40'37 | 22°53 | 3°22 | 28°52 | 12° 6 | 4°42 | 5°R49 | 17°28 | 10°22 | 27°16 | 4°55 | 5°30 | 3° 6 | n.a. | T 18 |
| W19 | 13 37 9 | 25°38'15 | 4♑47 | 5°28 | 28°15 | 12°50 | 4°39 | 5°49 | 17°31 | 10°24 | 27°17 | 4°56 | 5°27 | 3°12 | n.a. | W19 |
| T 20 | 13 41 6 | 26°35'52 | 16°51 | 7°32 | 27°37 | 13°33 | 4°37 | 5°49 | 17°35 | 10°25 | 27°18 | 4°57 | 5°24 | 3°19 | n.a. | T 20 |
| F 21 | 13 45 2 | 27°33'28 | 29° 8 | 9°34 | 26°59 | 14°17 | 4°34 | 5°49 | 17°38 | 10°27 | 27°20 | 4°R57 | 5°21 | 3°26 | n.a. | F 21 |
| S 22 | 13 48 59 | 28°31'02 | 11♒42 | 11°34 | 26°21 | 15° 0 | 4°32 | 5°48 | 17°41 | 10°29 | 27°21 | 4°56 | 5°17 | 3°32 | n.a. | S 22 |
| S 23 | 13 52 55 | 29°28'36 | 24°39 | 13°31 | 25°44 | 15°44 | 4°30 | 5°48 | 17°45 | 10°31 | 27°22 | 4°56 | 5°14 | 3°39 | n.a. | S 23 |
| M24 | 13 56 52 | 0♉26'09 | 8♓ 0 | 15°26 | 25° 7 | 16°27 | 4°28 | 5°47 | 17°48 | 10°32 | 27°23 | 4°56 | 5°11 | 3°46 | n.a. | M24 |
| T 25 | 14 0 48 | 1°23'40 | 21°47 | 17°19 | 24°31 | 17°10 | 4°26 | 5°47 | 17°52 | 10°34 | 27°25 | 4°55 | 5° 8 | 3°52 | n.a. | T 25 |
| W26 | 14 4 45 | 2°21'11 | 5♈59 | 19° 9 | 23°56 | 17°53 | 4°25 | 5°46 | 17°55 | 10°36 | 27°26 | 4°55 | 5° 5 | 3°59 | n.a. | W26 |
| T 27 | 14 8 41 | 3°18'40 | 20°33 | 20°56 | 23°22 | 18°37 | 4°24 | 5°45 | 17°58 | 10°38 | 27°27 | 4°55 | 5° 2 | 4° 6 | n.a. | T 27 |
| F 28 | 14 12 38 | 4°16'08 | 5♉24 | 22°40 | 22°50 | 19°20 | 4°22 | 5°44 | 18° 2 | 10°40 | 27°29 | 4°D55 | 4°58 | 4°12 | n.a. | F 28 |
| S 29 | 14 16 35 | 5°13'36 | 20°24 | 24°22 | 22°19 | 20° 3 | 4°21 | 5°43 | 18° 5 | 10°42 | 27°30 | 4°R55 | 4°55 | 4°19 | n.a. | S 29 |
| S 30 | 14 20 31 | 6♉11'02 | 5♊25 | 26♉ 0 | 21♈50 | 20♈46 | 4♍21 | 5♑42 | 18♉ 9 | 10♊43 | 27♉31 | 4♏55 | 4♏52 | 4♐26 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 3n19 | 14n52 | 0s35 | 2s33 | 1s39 | 19n22 | 6n16 | 0s48 | 0s43 | 11n 0 | 1n41 | 23s20 | 0n15 | 16n47 | 0s12 | 21n 2 | 1s10 | 12n38 | 7s15 | 13s21 | 13s48 | 18s31 | | n.a. |
| S 2 | 3 42 | 17 39 | 1 53 | 1 39 | 1 32 | 19 20 | 6 16 | 0 30 | 0 42 | 11 2 | 1 40 | 23 19 | 0 15 | 16 48 | 0 12 | 21 2 | 1 10 | 12 38 | 7 15 | 13 21 | 13 47 | 18 31 | | n.a. |
| M 3 | 4 5 | 19 15 | 3 3 | 0 43 | 1 24 | 19 17 | 6 15 | 0 12 | 0 42 | 11 4 | 1 40 | 23 19 | 0 15 | 16 49 | 0 12 | 21 2 | 1 10 | 12 38 | 7 15 | 13 21 | 13 46 | 18 32 | | n.a. |
| T 4 | 4 28 | 19 35 | 4 1 | 0n13 | 1 16 | 19 12 | 6 14 | 0n 7 | 0 41 | 11 5 | 1 40 | 23 19 | 0 15 | 16 50 | 0 12 | 21 2 | 1 10 | 12 39 | 7 15 | 13 22 | 13 45 | 18 32 | | n.a. |
| W 5 | 4 51 | 18 41 | 4 43 | 1 11 | 1 7 | 19 6 | 6 12 | 0 25 | 0 41 | 11 7 | 1 40 | 23 19 | 0 15 | 16 51 | 0 12 | 21 3 | 1 10 | 12 39 | 7 15 | 13 22 | 13 44 | 18 33 | | n.a. |
| T 6 | 5 14 | 16 40 | 5 8 | 2 9 | 0 58 | 18 59 | 6 10 | 0 43 | 0 40 | 11 9 | 1 40 | 23 19 | 0 15 | 16 52 | 0 12 | 21 3 | 1 10 | 12 40 | 7 14 | 13 22 | 13 43 | 18 33 | | n.a. |
| F 7 | 5 37 | 13 45 | 5 15 | 3 8 | 0 48 | 18 50 | 6 7 | 1 1 | 0 40 | 11 10 | 1 39 | 23 19 | 0 15 | 16 53 | 0 12 | 21 3 | 1 10 | 12 40 | 7 14 | 13 21 | 13 42 | 18 34 | | n.a. |
| S 8 | 5 59 | 10 11 | 5 5 | 4 7 | 0 39 | 18 39 | 6 4 | 1 19 | 0 39 | 11 12 | 1 39 | 23 20 | 0 15 | 16 54 | 0 12 | 21 3 | 1 10 | 12 40 | 7 14 | 13 21 | 13 41 | 18 34 | | n.a. |
| S 9 | 6 22 | 6 10 | 4 39 | 5 7 | 0 29 | 18 28 | 5 59 | 1 38 | 0 39 | 11 13 | 1 39 | 23 20 | 0 15 | 16 54 | 0 12 | 21 4 | 1 10 | 12 41 | 7 14 | 13 20 | 13 40 | 18 35 | | n.a. |
| M10 | 6 44 | 1 57 | 3 59 | 6 7 | 0 18 | 18 15 | 5 54 | 1 56 | 0 38 | 11 15 | 1 39 | 23 20 | 0 15 | 16 55 | 0 12 | 21 4 | 1 10 | 12 41 | 7 14 | 13 19 | 13 39 | 18 36 | | n.a. |
| T 11 | 7 7 | 2s18 | 3 7 | 7 7 | 0 8 | 18 0 | 5 49 | 2 14 | 0 38 | 11 16 | 1 39 | 23 20 | 0 15 | 16 56 | 0 12 | 21 4 | 1 10 | 12 42 | 7 14 | 13 18 | 13 37 | 18 36 | | n.a. |
| W12 | 7 29 | 6 23 | 2 8 | 8 7 | 0n 3 | 17 44 | 5 43 | 2 32 | 0 37 | 11 17 | 1 39 | 23 20 | 0 15 | 16 57 | 0 11 | 21 4 | 1 10 | 12 42 | 7 13 | 13 18 | 13 36 | 18 37 | | n.a. |
| T 13 | 7 51 | 10 8 | 1 4 | 9 6 | 0 13 | 17 27 | 5 36 | 2 50 | 0 36 | 11 19 | 1 38 | 23 20 | 0 15 | 16 58 | 0 11 | 21 5 | 1 10 | 12 42 | 7 13 | 13 17 | 13 35 | 18 37 | | n.a. |
| F 14 | 8 13 | 13 25 | 0n 3 | 10 4 | 0 24 | 17 8 | 5 28 | 3 8 | 0 36 | 11 20 | 1 38 | 23 20 | 0 15 | 16 59 | 0 11 | 21 5 | 1 10 | 12 43 | 7 13 | 13 17 | 13 34 | 18 38 | | n.a. |
| S 15 | 8 35 | 16 6 | 1 9 | 11 2 | 0 34 | 16 48 | 5 20 | 3 26 | 0 35 | 11 21 | 1 38 | 23 20 | 0 15 | 17 0 | 0 11 | 21 5 | 1 10 | 12 43 | 7 13 | 13 17 | 13 33 | 18 38 | | n.a. |
| S 16 | 8 57 | 18 4 | 2 11 | 11 58 | 0 45 | 16 28 | 5 11 | 3 43 | 0 35 | 11 22 | 1 38 | 23 20 | 0 15 | 17 1 | 0 11 | 21 5 | 1 10 | 12 44 | 7 13 | 13 17 | 13 32 | 18 39 | | n.a. |
| M17 | 9 18 | 19 15 | 3 8 | 12 53 | 0 55 | 16 6 | 5 1 | 4 1 | 0 34 | 11 23 | 1 37 | 23 20 | 0 15 | 17 2 | 0 11 | 21 6 | 1 10 | 12 44 | 7 13 | 13 18 | 13 31 | 18 39 | | n.a. |
| T 18 | 9 40 | 19 35 | 3 56 | 13 47 | 1 5 | 15 43 | 4 51 | 4 19 | 0 34 | 11 24 | 1 37 | 23 20 | 0 14 | 17 3 | 0 11 | 21 6 | 1 10 | 12 44 | 7 13 | 13 18 | 13 30 | 18 40 | | n.a. |
| W19 | 10 1 | 19 2 | 4 35 | 14 39 | 1 14 | 15 19 | 4 40 | 4 37 | 0 33 | 11 25 | 1 37 | 23 20 | 0 14 | 17 4 | 0 11 | 21 6 | 1 10 | 12 45 | 7 13 | 13 18 | 13 29 | 18 40 | | n.a. |
| T 20 | 10 22 | 17 38 | 5 2 | 15 29 | 1 23 | 14 54 | 4 29 | 4 54 | 0 33 | 11 25 | 1 37 | 23 20 | 0 14 | 17 5 | 0 11 | 21 6 | 1 10 | 12 45 | 7 12 | 13 19 | 13 28 | 18 41 | | n.a. |
| F 21 | 10 43 | 15 24 | 5 16 | 16 16 | 1 31 | 14 29 | 4 17 | 5 12 | 0 32 | 11 26 | 1 36 | 23 20 | 0 14 | 17 6 | 0 11 | 21 7 | 1 10 | 12 46 | 7 12 | 13 19 | 13 27 | 18 41 | | n.a. |
| S 22 | 11 4 | 12 25 | 5 15 | 17 2 | 1 39 | 14 4 | 4 4 | 5 29 | 0 32 | 11 27 | 1 36 | 23 20 | 0 14 | 17 7 | 0 11 | 21 7 | 1 10 | 12 46 | 7 12 | 13 19 | 13 26 | 18 42 | | n.a. |
| S 23 | 11 25 | 8 45 | 4 59 | 17 45 | 1 46 | 13 38 | 3 52 | 5 47 | 0 31 | 11 27 | 1 36 | 23 20 | 0 14 | 17 8 | 0 11 | 21 7 | 1 9 | 12 46 | 7 12 | 13 18 | 13 25 | 18 42 | | n.a. |
| M24 | 11 45 | 4 33 | 4 26 | 18 26 | 1 53 | 13 12 | 3 38 | 6 4 | 0 30 | 11 28 | 1 36 | 23 20 | 0 14 | 17 9 | 0 11 | 21 8 | 1 9 | 12 47 | 7 12 | 13 18 | 13 24 | 18 43 | | n.a. |
| T 25 | 12 5 | 0n 2 | 3 38 | 19 5 | 1 59 | 12 46 | 3 25 | 6 21 | 0 30 | 11 28 | 1 36 | 23 20 | 0 14 | 17 10 | 0 11 | 21 8 | 1 9 | 12 47 | 7 12 | 13 18 | 13 22 | 18 43 | | n.a. |
| W26 | 12 25 | 4 45 | 2 34 | 19 41 | 2 4 | 12 20 | 3 11 | 6 39 | 0 29 | 11 28 | 1 35 | 23 21 | 0 14 | 17 11 | 0 11 | 21 8 | 1 9 | 12 48 | 7 12 | 13 18 | 13 21 | 18 44 | | n.a. |
| T 27 | 12 45 | 9 20 | 1 19 | 20 15 | 2 8 | 11 55 | 2 57 | 6 56 | 0 29 | 11 29 | 1 35 | 23 21 | 0 14 | 17 12 | 0 11 | 21 9 | 1 9 | 12 48 | 7 12 | 13 18 | 13 20 | 18 44 | | n.a. |
| F 28 | 13 5 | 13 25 | 0s 3 | 20 46 | 2 12 | 11 29 | 2 43 | 7 13 | 0 28 | 11 29 | 1 35 | 23 21 | 0 14 | 17 13 | 0 11 | 21 9 | 1 9 | 12 48 | 7 11 | 13 18 | 13 19 | 18 45 | | n.a. |
| S 29 | 13 24 | 16 41 | 1 25 | 21 15 | 2 15 | 11 5 | 2 29 | 7 30 | 0 28 | 11 29 | 1 35 | 23 21 | 0 14 | 17 14 | 0 11 | 21 9 | 1 9 | 12 49 | 7 11 | 13 18 | 13 18 | 18 45 | | n.a. |
| S 30 | 13n44 | 18n47 | 2s42 | 21n41 | 2n17 | 10n41 | 2n15 | 7n47 | 0s27 | 11n29 | 1n34 | 23s21 | 0n14 | 17n15 | 0s11 | 21n 9 | 1s 9 | 12n49 | 7s11 | 13s18 | 13s17 | 18s46 | | n.a. |

Julian Day Number = 1695215.5, Delta T = 03h08m24s
Ecliptic obliquity = 23°42'07, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°03'17, Lahiri = - 4°56'17 Julian Calendar 1 Apr. 72 BCE == Greg. Calendar 30 March 072 BCE

The year -71 astronomical counting style corresponds to year 072 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 72 BCE
# geocentric

## MAY 72 BCE (-71) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 14 24 28 | 7♉ 8'27 | 20♊18 | 27♉36 | 21°R23 | 21♈29 | 4°R20 | 5°R41 | 18♉12 | 10♊45 | 27♉33 | 4°R54 | 4♏49 | 4♐32 | n.a. | M 1 |
| T 2 | 14 28 24 | 8° 5'51 | 4♋57 | 29° 8 | 20♈58 | 22°12 | 4♍19 | 5♑40 | 18°16 | 10°47 | 27°34 | 4♏54 | 4°46 | 4°39 | n.a. | T 2 |
| W 3 | 14 32 21 | 9° 3'13 | 19°17 | 0♊38 | 20°35 | 22°55 | 4°19 | 5°38 | 18°19 | 10°49 | 27°35 | 4°54 | 4°42 | 4°46 | n.a. | W 3 |
| T 4 | 14 36 17 | 10° 0'35 | 3♌15 | 2° 5 | 20°15 | 23°37 | 4°D19 | 5°37 | 18°23 | 10°51 | 27°37 | 4°D54 | 4°39 | 4°52 | n.a. | T 4 |
| F 5 | 14 40 14 | 10°57'54 | 16°50 | 3°28 | 19°56 | 24°20 | 4°19 | 5°35 | 18°26 | 10°53 | 27°38 | 4°54 | 4°36 | 4°59 | n.a. | F 5 |
| S 6 | 14 44 10 | 11°55'13 | 0♍ 4 | 4°48 | 19°40 | 25° 3 | 4°19 | 5°34 | 18°30 | 10°55 | 27°39 | 4°54 | 4°33 | 5° 6 | n.a. | S 6 |
| S 7 | 14 48 7 | 12°52'31 | 12°58 | 6° 5 | 19°27 | 25°45 | 4°20 | 5°32 | 18°33 | 10°57 | 27°41 | 4°55 | 4°30 | 5°12 | n.a. | S 7 |
| M 8 | 14 52 4 | 13°49'47 | 25°35 | 7°19 | 19°15 | 26°28 | 4°21 | 5°30 | 18°37 | 10°59 | 27°42 | 4°55 | 4°27 | 5°19 | n.a. | M 8 |
| T 9 | 14 56 0 | 14°47'02 | 7♎59 | 8°30 | 19° 6 | 27°10 | 4°21 | 5°28 | 18°40 | 11° 1 | 27°44 | 4°56 | 4°23 | 5°26 | n.a. | T 9 |
| W10 | 14 59 57 | 15°44'17 | 20°10 | 9°37 | 19° 0 | 27°53 | 4°22 | 5°26 | 18°44 | 11° 3 | 27°45 | 4°57 | 4°20 | 5°32 | n.a. | W10 |
| T 11 | 15 3 53 | 16°41'30 | 2♏13 | 10°41 | 18°56 | 28°35 | 4°24 | 5°24 | 18°48 | 11° 5 | 27°46 | 4°R57 | 4°17 | 5°39 | n.a. | T 11 |
| F 12 | 15 7 50 | 17°38'43 | 14°10 | 11°41 | 18°D54 | 29°18 | 4°25 | 5°22 | 18°51 | 11° 7 | 27°48 | 4°57 | 4°14 | 5°46 | n.a. | F 12 |
| S 13 | 15 11 46 | 18°35'55 | 26° 1 | 12°38 | 18°55 | 29°59 | 4°26 | 5°20 | 18°55 | 11° 9 | 27°49 | 4°56 | 4°11 | 5°52 | n.a. | S 13 |
| S 14 | 15 15 43 | 19°33'07 | 7♐51 | 13°32 | 18°58 | 0♉42 | 4°28 | 5°17 | 18°58 | 11°12 | 27°51 | 4°55 | 4° 8 | 5°59 | n.a. | S 14 |
| M15 | 15 19 39 | 20°30'18 | 19°40 | 14°21 | 19° 3 | 1°24 | 4°30 | 5°15 | 19° 2 | 11°14 | 27°52 | 4°53 | 4° 4 | 6° 6 | n.a. | M15 |
| T 16 | 15 23 36 | 21°27'28 | 1♑32 | 15° 7 | 19°10 | 2° 6 | 4°32 | 5°12 | 19° 5 | 11°16 | 27°54 | 4°50 | 4° 1 | 6°12 | n.a. | T 16 |
| W17 | 15 27 33 | 22°24'39 | 13°29 | 15°49 | 19°20 | 2°49 | 4°34 | 5°10 | 19° 9 | 11°18 | 27°55 | 4°48 | 3°58 | 6°19 | n.a. | W17 |
| T 18 | 15 31 29 | 23°21'48 | 25°35 | 16°27 | 19°31 | 3°31 | 4°37 | 5° 7 | 19°12 | 11°20 | 27°56 | 4°45 | 3°55 | 6°26 | n.a. | T 18 |
| F 19 | 15 35 26 | 24°18'58 | 7♒52 | 17° 0 | 19°45 | 4°13 | 4°39 | 5° 4 | 19°16 | 11°22 | 27°58 | 4°44 | 3°52 | 6°32 | n.a. | F 19 |
| S 20 | 15 39 22 | 25°16'07 | 20°25 | 17°30 | 20° 1 | 4°54 | 4°42 | 5° 1 | 19°19 | 11°24 | 27°59 | 4°D43 | 3°48 | 6°39 | n.a. | S 20 |
| S 21 | 15 43 19 | 26°13'16 | 3♓17 | 17°55 | 20°18 | 5°36 | 4°45 | 4°59 | 19°23 | 11°27 | 28° 1 | 4°43 | 3°45 | 6°46 | n.a. | S 21 |
| M22 | 15 47 15 | 27°10'25 | 16°32 | 18°16 | 20°38 | 6°18 | 4°48 | 4°56 | 19°26 | 11°29 | 28° 2 | 4°44 | 3°42 | 6°52 | n.a. | M22 |
| T 23 | 15 51 12 | 28° 7'34 | 0♈12 | 18°33 | 20°59 | 7° 0 | 4°51 | 4°53 | 19°30 | 11°31 | 28° 3 | 4°45 | 3°39 | 6°59 | n.a. | T 23 |
| W24 | 15 55 8 | 29° 4'43 | 14°18 | 18°45 | 21°22 | 7°42 | 4°54 | 4°49 | 19°33 | 11°33 | 28° 5 | 4°47 | 3°36 | 7° 6 | n.a. | W24 |
| T 25 | 15 59 5 | 0♊ 1'52 | 28°50 | 18°52 | 21°47 | 8°23 | 4°58 | 4°46 | 19°37 | 11°35 | 28° 6 | 4°R47 | 3°33 | 7°12 | n.a. | T 25 |
| F 26 | 16 3 2 | 0°59'01 | 13♉43 | 18°R55 | 22°13 | 9° 5 | 5° 2 | 4°43 | 19°40 | 11°37 | 28° 8 | 4°47 | 3°29 | 7°19 | n.a. | F 26 |
| S 27 | 16 6 58 | 1°56'09 | 28°50 | 18°53 | 22°41 | 9°46 | 5° 6 | 4°40 | 19°44 | 11°40 | 28° 9 | 4°46 | 3°26 | 7°26 | n.a. | S 27 |
| S 28 | 16 10 55 | 2°53'18 | 14♊ 4 | 18°47 | 23°10 | 10°28 | 5°10 | 4°36 | 19°47 | 11°42 | 28°11 | 4°43 | 3°23 | 7°32 | n.a. | S 28 |
| M29 | 16 14 51 | 3°50'26 | 29°12 | 18°36 | 23°41 | 11° 9 | 5°14 | 4°33 | 19°51 | 11°44 | 28°12 | 4°40 | 3°20 | 7°39 | n.a. | M29 |
| T 30 | 16 18 48 | 4°47'35 | 14♋ 7 | 18°21 | 24°13 | 11°51 | 5°18 | 4°29 | 19°54 | 11°46 | 28°13 | 4°36 | 3°17 | 7°46 | n.a. | T 30 |
| W31 | 16 22 44 | 5♊44'42 | 28♋41 | 18♊ 2 | 24♈47 | 12♉32 | 5♍23 | 4♑26 | 19♉58 | 11♊49 | 28♉15 | 4♏32 | 3♏14 | 7♐52 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| M 1 | 14n 3 | 19n35 | 3s47 | 22n 6 | 2n19 | 10n17 | 2n 1 | 8n 3 | 0s26 | 11n29 | 1n34 | 23s21 | 0n14 | 17n16 | 0s11 | 21n10 | 1s 9 | 12n50 | 7s11 | 13s18 | 13s16 | 18s46 | | | n.a. |
| T 2 | 14 22 | 19 1 | 4 35 | 22 27 | 2 20 | 9 55 | 1 47 | 8 20 | 0 26 | 11 29 | 1 34 | 23 21 | 0 14 | 17 17 | 0 11 | 21 10 | 1 9 | 12 50 | 7 11 | 13 18 | 13 15 | 18 47 | | | n.a. |
| W 3 | 14 40 | 17 15 | 5 6 | 22 47 | 2 19 | 9 33 | 1 33 | 8 37 | 0 25 | 11 29 | 1 34 | 23 21 | 0 14 | 17 18 | 0 11 | 21 10 | 1 9 | 12 50 | 7 11 | 13 18 | 13 14 | 18 47 | | | n.a. |
| T 4 | 14 59 | 14 30 | 5 18 | 23 4 | 2 19 | 9 13 | 1 19 | 8 53 | 0 25 | 11 29 | 1 33 | 23 21 | 0 13 | 17 18 | 0 11 | 21 11 | 1 9 | 12 51 | 7 11 | 13 18 | 13 13 | 18 47 | | | n.a. |
| F 5 | 15 17 | 11 1 | 5 11 | 23 19 | 2 17 | 8 53 | 1 5 | 9 10 | 0 24 | 11 28 | 1 33 | 23 22 | 0 13 | 17 19 | 0 11 | 21 11 | 1 9 | 12 51 | 7 11 | 13 18 | 13 12 | 18 48 | | | n.a. |
| S 6 | 15 35 | 7 5 | 4 48 | 23 32 | 2 14 | 8 35 | 0 52 | 9 26 | 0 23 | 11 28 | 1 33 | 23 22 | 0 13 | 17 20 | 0 11 | 21 11 | 1 9 | 12 52 | 7 11 | 13 18 | 13 11 | 18 48 | | | n.a. |
| S 7 | 15 52 | 2 55 | 4 10 | 23 43 | 2 11 | 8 17 | 0 39 | 9 42 | 0 23 | 11 28 | 1 33 | 23 22 | 0 13 | 17 21 | 0 11 | 21 12 | 1 9 | 12 52 | 7 11 | 13 18 | 13 10 | 18 49 | | | n.a. |
| M 8 | 16 10 | 1s18 | 3 22 | 23 51 | 2 7 | 8 1 | 0 26 | 9 58 | 0 22 | 11 27 | 1 32 | 23 22 | 0 13 | 17 22 | 0 11 | 21 12 | 1 9 | 12 52 | 7 10 | 13 18 | 13 8 | 18 49 | | | n.a. |
| T 9 | 16 27 | 5 24 | 2 24 | 23 58 | 2 2 | 7 46 | 0 14 | 10 15 | 0 22 | 11 27 | 1 32 | 23 22 | 0 13 | 17 23 | 0 11 | 21 12 | 1 9 | 12 53 | 7 10 | 13 19 | 13 7 | 18 50 | | | n.a. |
| W10 | 16 44 | 9 13 | 1 21 | 24 3 | 1 57 | 7 33 | 0 2 | 10 30 | 0 21 | 11 26 | 1 32 | 23 22 | 0 13 | 17 24 | 0 11 | 21 12 | 1 9 | 12 53 | 7 10 | 13 19 | 13 6 | 18 50 | | | n.a. |
| T 11 | 17 0 | 12 37 | 0 15 | 24 7 | 1 50 | 7 20 | 0s10 | 10 46 | 0 20 | 11 25 | 1 31 | 23 22 | 0 13 | 17 25 | 0 11 | 21 13 | 1 9 | 12 53 | 7 10 | 13 19 | 13 5 | 18 50 | | | n.a. |
| F 12 | 17 17 | 15 27 | 0n51 | 24 8 | 1 43 | 7 9 | 0 21 | 11 2 | 0 20 | 11 25 | 1 31 | 23 23 | 0 13 | 17 26 | 0 11 | 21 13 | 1 9 | 12 54 | 7 10 | 13 19 | 13 4 | 18 51 | | | n.a. |
| S 13 | 17 33 | 17 37 | 1 54 | 24 8 | 1 35 | 6 59 | 0 32 | 11 18 | 0 19 | 11 24 | 1 31 | 23 23 | 0 13 | 17 27 | 0 11 | 21 13 | 1 9 | 12 54 | 7 10 | 13 19 | 13 3 | 18 51 | | | n.a. |
| S 14 | 17 49 | 19 1 | 2 52 | 24 6 | 1 27 | 6 51 | 0 43 | 11 33 | 0 19 | 11 23 | 1 31 | 23 23 | 0 13 | 17 28 | 0 11 | 21 14 | 1 9 | 12 55 | 7 10 | 13 18 | 13 2 | 18 52 | | | n.a. |
| M15 | 18 4 | 19 35 | 3 43 | 24 3 | 1 17 | 6 43 | 0 53 | 11 49 | 0 18 | 11 22 | 1 30 | 23 23 | 0 13 | 17 29 | 0 11 | 21 14 | 1 9 | 12 55 | 7 10 | 13 17 | 13 1 | 18 52 | | | n.a. |
| T 16 | 18 19 | 19 17 | 4 24 | 23 58 | 1 7 | 6 37 | 1 3 | 12 4 | 0 17 | 11 21 | 1 30 | 23 23 | 0 13 | 17 30 | 0 11 | 21 14 | 1 9 | 12 55 | 7 10 | 13 17 | 13 0 | 18 53 | | | n.a. |
| W17 | 18 34 | 18 8 | 4 54 | 23 52 | 0 56 | 6 32 | 1 13 | 12 19 | 0 17 | 11 20 | 1 30 | 23 23 | 0 13 | 17 31 | 0 11 | 21 15 | 1 9 | 12 56 | 7 10 | 13 16 | 12 59 | 18 53 | | | n.a. |
| T 18 | 18 49 | 16 9 | 5 12 | 23 45 | 0 45 | 6 28 | 1 22 | 12 34 | 0 16 | 11 19 | 1 30 | 23 24 | 0 12 | 17 32 | 0 11 | 21 15 | 1 9 | 12 56 | 7 10 | 13 15 | 12 58 | 18 53 | | | n.a. |
| F 19 | 19 3 | 13 26 | 5 15 | 23 36 | 0 32 | 6 25 | 1 31 | 12 49 | 0 16 | 11 18 | 1 29 | 23 24 | 0 12 | 17 33 | 0 11 | 21 15 | 1 9 | 12 56 | 7 10 | 13 14 | 12 57 | 18 54 | | | n.a. |
| S 20 | 19 17 | 10 2 | 5 4 | 23 26 | 0 20 | 6 23 | 1 39 | 13 4 | 0 15 | 11 16 | 1 29 | 23 24 | 0 12 | 17 34 | 0 11 | 21 16 | 1 9 | 12 57 | 7 10 | 13 14 | 12 55 | 18 54 | | | n.a. |
| S 21 | 19 31 | 6 6 | 4 37 | 23 15 | 0 6 | 6 22 | 1 47 | 13 19 | 0 14 | 11 15 | 1 29 | 23 24 | 0 12 | 17 35 | 0 11 | 21 16 | 1 9 | 12 57 | 7 10 | 13 14 | 12 54 | 18 54 | | | n.a. |
| M22 | 19 45 | 1 46 | 3 56 | 23 3 | 0s 8 | 6 23 | 1 55 | 13 33 | 0 14 | 11 14 | 1 29 | 23 24 | 0 12 | 17 36 | 0 11 | 21 16 | 1 9 | 12 58 | 7 10 | 13 14 | 12 53 | 18 55 | | | n.a. |
| T 23 | 19 58 | 2n49 | 2 59 | 22 50 | 0 23 | 6 24 | 2 2 | 13 48 | 0 13 | 11 12 | 1 28 | 23 25 | 0 12 | 17 37 | 0 11 | 21 17 | 1 9 | 12 58 | 7 9 | 13 15 | 12 52 | 18 55 | | | n.a. |
| W24 | 20 10 | 7 24 | 1 50 | 22 36 | 0 38 | 6 26 | 2 9 | 14 2 | 0 12 | 11 11 | 1 28 | 23 25 | 0 12 | 17 38 | 0 11 | 21 17 | 1 9 | 12 58 | 7 9 | 13 15 | 12 51 | 18 56 | | | n.a. |
| T 25 | 20 23 | 11 41 | 0 33 | 22 21 | 0 53 | 6 29 | 2 16 | 14 16 | 0 12 | 11 9 | 1 28 | 23 25 | 0 12 | 17 39 | 0 11 | 21 17 | 1 9 | 12 59 | 7 9 | 13 16 | 12 50 | 18 56 | | | n.a. |
| F 26 | 20 35 | 15 21 | 0s49 | 22 5 | 1 9 | 6 33 | 2 22 | 14 30 | 0 11 | 11 8 | 1 28 | 23 25 | 0 12 | 17 40 | 0 11 | 21 18 | 1 9 | 12 59 | 7 9 | 13 16 | 12 49 | 18 56 | | | n.a. |
| S 27 | 20 47 | 18 2 | 2 8 | 21 49 | 1 25 | 6 38 | 2 28 | 14 44 | 0 10 | 11 6 | 1 27 | 23 25 | 0 12 | 17 41 | 0 11 | 21 18 | 1 9 | 12 59 | 7 9 | 13 15 | 12 48 | 18 57 | | | n.a. |
| S 28 | 20 58 | 19 27 | 3 19 | 21 33 | 1 41 | 6 44 | 2 33 | 14 58 | 0 10 | 11 4 | 1 27 | 23 26 | 0 12 | 17 42 | 0 11 | 21 18 | 1 9 | 13 0 | 7 9 | 13 14 | 12 47 | 18 57 | | | n.a. |
| M29 | 21 9 | 19 27 | 4 15 | 21 16 | 1 57 | 6 50 | 2 39 | 15 12 | 0 9 | 11 2 | 1 27 | 23 26 | 0 12 | 17 43 | 0 11 | 21 18 | 1 9 | 13 0 | 7 9 | 13 13 | 12 46 | 18 57 | | | n.a. |
| T 30 | 21 20 | 18 5 | 4 53 | 20 58 | 2 13 | 6 57 | 2 44 | 15 25 | 0 9 | 11 1 | 1 27 | 23 26 | 0 12 | 17 44 | 0 11 | 21 19 | 1 9 | 13 0 | 7 9 | 13 12 | 12 45 | 18 58 | | | n.a. |
| W31 | 21n30 | 15n34 | 5s11 | 20n41 | 2s29 | 7n 5 | 2s48 | 15n39 | 0s 8 | 10n59 | 1n26 | 23s26 | 0n11 | 17n45 | 0s11 | 21n19 | 1s 9 | 13n 1 | 7s 9 | 13s10 | 12s43 | 18s58 | | | n.a. |

Julian Day Number = 1695245.5, Delta T = 03h08m24s
Ecliptic obliquity = 23°42'06, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°03'13, Lahiri = - 4°56'13 Julian Calendar 1 May 72 BCE == Greg. Calendar 29 Apr. 072 BCE

The year -71 astronomical counting style corresponds to year 072 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 72 BCE
# geocentric

## JUNE 72 BCE (-71) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 26 41 | 6♊41'50 | 12♌49 | 17°R39 | 25♈21 | 13♉13 | 5♍28 | 4°R22 | 20♉ 1 | 11♊51 | 28♉16 | 4°R29 | 3♏10 | 7♐59 | n.a. | T 1 |
| F 2 | 16 30 37 | 7°38'57 | 26°29 | 17♊13 | 25°57 | 13°55 | 5°32 | 4♋19 | 20° 5 | 11°53 | 28°18 | 4♏27 | 3° 7 | 8° 6 | n.a. | F 2 |
| S 3 | 16 34 34 | 8°36'03 | 9♍43 | 16°43 | 26°35 | 14°36 | 5°37 | 4°15 | 20° 8 | 11°55 | 28°19 | 4°D26 | 3° 4 | 8°12 | n.a. | S 3 |
| S 4 | 16 38 31 | 9°33'10 | 22°33 | 16°11 | 27°13 | 15°17 | 5°43 | 4°11 | 20°11 | 11°57 | 28°21 | 4°27 | 3° 1 | 8°19 | n.a. | S 4 |
| M 5 | 16 42 27 | 10°30'16 | 5♎ 2 | 15°36 | 27°52 | 15°58 | 5°48 | 4° 7 | 20°15 | 12° 0 | 28°22 | 4°28 | 2°58 | 8°26 | n.a. | M 5 |
| T 6 | 16 46 24 | 11°27'22 | 17°16 | 15° 0 | 28°33 | 16°39 | 5°53 | 4° 3 | 20°18 | 12° 2 | 28°23 | 4°30 | 2°54 | 8°32 | n.a. | T 6 |
| W 7 | 16 50 20 | 12°24'28 | 29°19 | 14°23 | 29°14 | 17°20 | 5°59 | 3°59 | 20°22 | 12° 4 | 28°25 | 4°R31 | 2°51 | 8°39 | n.a. | W 7 |
| T 8 | 16 54 17 | 13°21'35 | 11♏13 | 13°46 | 29°57 | 18° 1 | 6° 5 | 3°55 | 20°25 | 12° 6 | 28°26 | 4°31 | 2°48 | 8°46 | n.a. | T 8 |
| F 9 | 16 58 13 | 14°18'41 | 23° 3 | 13° 8 | 0♉40 | 18°41 | 6°11 | 3°51 | 20°28 | 12° 9 | 28°28 | 4°29 | 2°45 | 8°52 | n.a. | F 9 |
| S 10 | 17 2 10 | 15°15'47 | 4♐52 | 12°32 | 1°24 | 19°22 | 6°17 | 3°47 | 20°31 | 12°11 | 28°29 | 4°25 | 2°42 | 8°59 | n.a. | S 10 |
| S 11 | 17 6 6 | 16°12'54 | 16°42 | 11°57 | 2° 9 | 20° 3 | 6°23 | 3°43 | 20°35 | 12°13 | 28°30 | 4°20 | 2°39 | 9° 6 | n.a. | S 11 |
| M12 | 17 10 3 | 17°10'01 | 28°35 | 11°24 | 2°55 | 20°44 | 6°29 | 3°39 | 20°38 | 12°15 | 28°32 | 4°13 | 2°35 | 9°12 | n.a. | M12 |
| T 13 | 17 14 0 | 18° 7'08 | 10♑32 | 10°54 | 3°42 | 21°24 | 6°35 | 3°35 | 20°41 | 12°18 | 28°33 | 4° 5 | 2°32 | 9°19 | n.a. | T 13 |
| W14 | 17 17 56 | 19° 4'16 | 22°36 | 10°27 | 4°30 | 22° 5 | 6°42 | 3°31 | 20°44 | 12°20 | 28°34 | 3°57 | 2°29 | 9°26 | n.a. | W14 |
| T 15 | 17 21 53 | 20° 1'24 | 4♒48 | 10° 4 | 5°18 | 22°45 | 6°49 | 3°26 | 20°48 | 12°22 | 28°36 | 3°50 | 2°26 | 9°32 | n.a. | T 15 |
| F 16 | 17 25 49 | 20°58'33 | 17°10 | 9°45 | 6° 7 | 23°26 | 6°56 | 3°22 | 20°51 | 12°24 | 28°37 | 3°43 | 2°23 | 9°39 | n.a. | F 16 |
| S 17 | 17 29 46 | 21°55'43 | 29°45 | 9°31 | 6°57 | 24° 6 | 7° 3 | 3°18 | 20°54 | 12°26 | 28°38 | 3°39 | 2°19 | 9°46 | n.a. | S 17 |
| S 18 | 17 33 42 | 22°52'53 | 12♓37 | 9°21 | 7°48 | 24°47 | 7°10 | 3°13 | 20°57 | 12°29 | 28°40 | 3°37 | 2°16 | 9°52 | n.a. | S 18 |
| M19 | 17 37 39 | 23°50'05 | 25°47 | 9°D17 | 8°39 | 25°27 | 7°17 | 3° 9 | 21° 0 | 12°31 | 28°41 | 3°D36 | 2°13 | 9°59 | n.a. | M19 |
| T 20 | 17 41 36 | 24°47'17 | 9♈19 | 9°18 | 9°31 | 26° 7 | 7°24 | 3° 5 | 21° 3 | 12°33 | 28°42 | 3°37 | 2°10 | 10° 6 | n.a. | T 20 |
| W21 | 17 45 32 | 25°44'30 | 23°15 | 9°25 | 10°23 | 26°47 | 7°32 | 3° 0 | 21° 6 | 12°35 | 28°44 | 3°38 | 2° 7 | 10°12 | n.a. | W21 |
| T 22 | 17 49 29 | 26°41'44 | 7♉35 | 9°37 | 11°16 | 27°28 | 7°39 | 2°56 | 21° 9 | 12°37 | 28°45 | 3°R38 | 2° 4 | 10°19 | n.a. | T 22 |
| F 23 | 17 53 25 | 27°38'59 | 22°18 | 9°56 | 12°10 | 28° 8 | 7°47 | 2°52 | 21°13 | 12°40 | 28°46 | 3°37 | 2° 0 | 10°26 | n.a. | F 23 |
| S 24 | 17 57 22 | 28°36'14 | 7♊18 | 10°19 | 13° 4 | 28°48 | 7°55 | 2°47 | 21°15 | 12°42 | 28°48 | 3°33 | 1°57 | 10°32 | n.a. | S 24 |
| S 25 | 18 1 18 | 29°33'31 | 22°28 | 10°49 | 13°59 | 29°28 | 8° 3 | 2°43 | 21°18 | 12°44 | 28°49 | 3°28 | 1°54 | 10°39 | n.a. | S 25 |
| M26 | 18 5 15 | 0♋30'49 | 7♋39 | 11°25 | 14°54 | 0♊ 8 | 8°11 | 2°38 | 21°21 | 12°46 | 28°50 | 3°20 | 1°51 | 10°46 | n.a. | M26 |
| T 27 | 18 9 11 | 1°28'07 | 22°39 | 12° 6 | 15°49 | 0°48 | 8°19 | 2°34 | 21°24 | 12°48 | 28°51 | 3°11 | 1°48 | 10°53 | n.a. | T 27 |
| W28 | 18 13 8 | 2°25'26 | 7♌20 | 12°53 | 16°46 | 1°27 | 8°28 | 2°29 | 21°27 | 12°50 | 28°53 | 3° 3 | 1°45 | 10°59 | n.a. | W28 |
| T 29 | 18 17 5 | 3°22'46 | 21°36 | 13°46 | 17°42 | 2° 7 | 8°36 | 2°25 | 21°30 | 12°52 | 28°54 | 2°55 | 1°41 | 11° 6 | n.a. | T 29 |
| F 30 | 18 21 1 | 4♋20'06 | 5♍22 | 14♊44 | 18♉39 | 2♊47 | 8♍45 | 2♋20 | 21♉33 | 12♊55 | 28♉55 | 2♏50 | 1♏38 | 11♐13 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| T 1 | 21n40 | 12n12 | 5s10 | 20n23 | 2s45 | 7n14 | 2s53 | 15n52 | 0s 7 | 10n57 | 1n26 | 23s26 | 0n11 | 17n46 | 0s11 | 21n19 | 1s 9 | 13n 1 | 7s 9 | 13s 9 | 12s42 | 18s59 | | | n.a. |
| F 2 | 21 49 | 8 17 | 4 50 | 20 6 | 3 0 | 7 23 | 2 57 | 16 5 | 0 7 | 10 55 | 1 26 | 23 27 | 0 11 | 17 47 | 0 11 | 21 20 | 1 9 | 13 1 | 7 9 | 13 9 | 12 41 | 18 59 | | | n.a. |
| S 3 | 21 59 | 4 4 | 4 16 | 19 48 | 3 14 | 7 33 | 3 1 | 16 18 | 0 6 | 10 53 | 1 26 | 23 27 | 0 11 | 17 48 | 0 11 | 21 20 | 1 8 | 13 2 | 7 9 | 13 8 | 12 40 | 18 59 | | | n.a. |
| S 4 | 22 8 | 0s13 | 3 29 | 19 32 | 3 28 | 7 44 | 3 5 | 16 31 | 0 5 | 10 50 | 1 25 | 23 27 | 0 11 | 17 49 | 0 11 | 21 20 | 1 8 | 13 2 | 7 9 | 13 9 | 12 39 | 19 0 | | | n.a. |
| M 5 | 22 16 | 4 22 | 2 34 | 19 15 | 3 41 | 7 55 | 3 8 | 16 43 | 0 5 | 10 48 | 1 25 | 23 27 | 0 11 | 17 49 | 0 11 | 21 21 | 1 8 | 13 2 | 7 9 | 13 9 | 12 38 | 19 0 | | | n.a. |
| T 6 | 22 24 | 8 17 | 1 33 | 19 0 | 3 52 | 8 6 | 3 11 | 16 56 | 0 4 | 10 46 | 1 25 | 23 27 | 0 11 | 17 50 | 0 11 | 21 21 | 1 8 | 13 3 | 7 9 | 13 10 | 12 37 | 19 0 | | | n.a. |
| W 7 | 22 32 | 11 47 | 0 28 | 18 45 | 4 3 | 8 18 | 3 14 | 17 8 | 0 3 | 10 44 | 1 25 | 23 28 | 0 11 | 17 51 | 0 11 | 21 21 | 1 8 | 13 3 | 7 9 | 13 10 | 12 36 | 19 1 | | | n.a. |
| T 8 | 22 39 | 14 47 | 0n36 | 18 32 | 4 12 | 8 31 | 3 16 | 17 20 | 0 3 | 10 41 | 1 24 | 23 28 | 0 11 | 17 52 | 0 11 | 21 22 | 1 8 | 13 3 | 7 9 | 13 10 | 12 35 | 19 1 | | | n.a. |
| F 9 | 22 46 | 17 8 | 1 39 | 18 20 | 4 20 | 8 44 | 3 19 | 17 32 | 0 2 | 10 39 | 1 24 | 23 28 | 0 11 | 17 53 | 0 11 | 21 22 | 1 8 | 13 4 | 7 9 | 13 9 | 12 34 | 19 1 | | | n.a. |
| S 10 | 22 53 | 18 46 | 2 37 | 18 9 | 4 26 | 8 57 | 3 21 | 17 44 | 0 1 | 10 36 | 1 24 | 23 28 | 0 11 | 17 54 | 0 11 | 21 22 | 1 8 | 13 4 | 7 9 | 13 8 | 12 32 | 19 1 | | | n.a. |
| S 11 | 22 59 | 19 34 | 3 29 | 18 0 | 4 30 | 9 11 | 3 23 | 17 56 | 0 1 | 10 34 | 1 24 | 23 28 | 0 11 | 17 55 | 0 11 | 21 22 | 1 8 | 13 4 | 7 9 | 13 6 | 12 31 | 19 2 | | | n.a. |
| M12 | 23 4 | 19 30 | 4 11 | 17 53 | 4 34 | 9 25 | 3 25 | 18 8 | 0 0 | 10 31 | 1 24 | 23 29 | 0 10 | 17 56 | 0 11 | 21 23 | 1 8 | 13 4 | 7 9 | 13 4 | 12 30 | 19 2 | | | n.a. |
| T 13 | 23 10 | 18 35 | 4 43 | 17 47 | 4 35 | 9 40 | 3 26 | 18 19 | 0n 1 | 10 29 | 1 23 | 23 29 | 0 10 | 17 57 | 0 11 | 21 23 | 1 8 | 13 5 | 7 9 | 13 1 | 12 29 | 19 2 | | | n.a. |
| W14 | 23 15 | 16 49 | 5 2 | 17 43 | 4 35 | 9 54 | 3 27 | 18 30 | 0 1 | 10 26 | 1 23 | 23 29 | 0 10 | 17 58 | 0 11 | 21 23 | 1 8 | 13 5 | 7 9 | 12 58 | 12 28 | 19 3 | | | n.a. |
| T 15 | 23 19 | 14 17 | 5 8 | 17 42 | 4 33 | 10 9 | 3 29 | 18 42 | 0 2 | 10 23 | 1 23 | 23 29 | 0 10 | 17 58 | 0 11 | 21 24 | 1 8 | 13 5 | 7 9 | 12 56 | 12 27 | 19 3 | | | n.a. |
| F 16 | 23 23 | 11 6 | 5 0 | 17 42 | 4 30 | 10 25 | 3 30 | 18 52 | 0 2 | 10 20 | 1 23 | 23 29 | 0 10 | 17 59 | 0 11 | 21 24 | 1 8 | 13 6 | 7 9 | 12 54 | 12 26 | 19 3 | | | n.a. |
| S 17 | 23 27 | 7 22 | 4 37 | 17 44 | 4 26 | 10 41 | 3 30 | 19 3 | 0 3 | 10 18 | 1 22 | 23 30 | 0 10 | 18 0 | 0 11 | 21 24 | 1 8 | 13 6 | 7 9 | 12 52 | 12 25 | 19 4 | | | n.a. |
| S 18 | 23 30 | 3 12 | 4 0 | 17 49 | 4 20 | 10 56 | 3 31 | 19 14 | 0 4 | 10 15 | 1 22 | 23 30 | 0 10 | 18 1 | 0 11 | 21 25 | 1 8 | 13 6 | 7 9 | 12 51 | 12 24 | 19 4 | | | n.a. |
| M19 | 23 33 | 1n12 | 3 9 | 17 55 | 4 13 | 11 12 | 3 31 | 19 24 | 0 4 | 10 12 | 1 22 | 23 30 | 0 10 | 18 2 | 0 11 | 21 25 | 1 8 | 13 6 | 7 9 | 12 51 | 12 23 | 19 4 | | | n.a. |
| T 20 | 23 36 | 5 41 | 2 7 | 18 3 | 4 5 | 11 29 | 3 31 | 19 35 | 0 5 | 10 9 | 1 22 | 23 30 | 0 10 | 18 3 | 0 11 | 21 25 | 1 8 | 13 7 | 7 9 | 12 52 | 12 21 | 19 4 | | | n.a. |
| W21 | 23 38 | 9 59 | 0 56 | 18 13 | 3 56 | 11 45 | 3 31 | 19 45 | 0 6 | 10 6 | 1 22 | 23 30 | 0 10 | 18 3 | 0 11 | 21 25 | 1 8 | 13 7 | 7 9 | 12 52 | 12 20 | 19 5 | | | n.a. |
| T 22 | 23 40 | 13 52 | 0s21 | 18 25 | 3 46 | 12 2 | 3 31 | 19 55 | 0 6 | 10 3 | 1 21 | 23 30 | 0 10 | 18 4 | 0 11 | 21 26 | 1 8 | 13 7 | 7 9 | 12 52 | 12 19 | 19 5 | | | n.a. |
| F 23 | 23 41 | 16 57 | 1 39 | 18 39 | 3 35 | 12 18 | 3 31 | 20 5 | 0 7 | 10 0 | 1 21 | 23 31 | 0 10 | 18 5 | 0 11 | 21 26 | 1 8 | 13 7 | 7 9 | 12 51 | 12 18 | 19 5 | | | n.a. |
| S 24 | 23 42 | 18 58 | 2 51 | 18 54 | 3 23 | 12 35 | 3 31 | 20 14 | 0 8 | 9 57 | 1 21 | 23 31 | 0 9 | 18 6 | 0 11 | 21 26 | 1 8 | 13 8 | 7 9 | 12 50 | 12 17 | 19 5 | | | n.a. |
| S 25 | 23 42 | 19 38 | 3 51 | 19 10 | 3 10 | 12 52 | 3 30 | 20 24 | 0 8 | 9 53 | 1 21 | 23 31 | 0 9 | 18 7 | 0 11 | 21 27 | 1 8 | 13 8 | 7 9 | 12 48 | 12 16 | 19 6 | | | n.a. |
| M26 | 23 42 | 18 54 | 4 35 | 19 28 | 2 57 | 13 9 | 3 29 | 20 33 | 0 9 | 9 50 | 1 21 | 23 31 | 0 9 | 18 7 | 0 11 | 21 27 | 1 8 | 13 8 | 7 9 | 12 46 | 12 15 | 19 6 | | | n.a. |
| T 27 | 23 42 | 16 51 | 5 0 | 19 47 | 2 44 | 13 26 | 3 28 | 20 42 | 0 10 | 9 47 | 1 20 | 23 31 | 0 9 | 18 8 | 0 11 | 21 27 | 1 8 | 13 8 | 7 9 | 12 43 | 12 14 | 19 6 | | | n.a. |
| W28 | 23 41 | 13 44 | 5 4 | 20 7 | 2 30 | 13 43 | 3 27 | 20 51 | 0 11 | 9 43 | 1 20 | 23 32 | 0 9 | 18 9 | 0 11 | 21 27 | 1 8 | 13 8 | 7 9 | 12 40 | 12 13 | 19 6 | | | n.a. |
| T 29 | 23 39 | 9 54 | 4 49 | 20 27 | 2 16 | 14 0 | 3 26 | 21 0 | 0 11 | 9 40 | 1 20 | 23 32 | 0 9 | 18 10 | 0 11 | 21 28 | 1 8 | 13 9 | 7 9 | 12 37 | 12 11 | 19 7 | | | n.a. |
| F 30 | 23n38 | 5n39 | 4s18 | 20n48 | 2s 2 | 14n17 | 3s25 | 21n 8 | 0n12 | 9n37 | 1n20 | 23s32 | 0n 9 | 18n10 | 0s11 | 21n28 | 1s 8 | 13n 9 | 7s 9 | 12s35 | 12s10 | 19s 7 | | | n.a. |

Julian Day Number = 1695276.5, Delta T = 03h08m23s
Ecliptic obliquity = 23°42'05, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°03'09, Lahiri = - 4°56'09 Julian Calendar 1 June 72 BCE == Greg. Calendar 30 May 072 BCE

The year -71 astronomical counting style corresponds to year 072 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 72 BCE
# geocentric

## JULY 72 BCE (-71) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 24 58 | 5♋17'27 | 18♍40 | 15♊48 | 19♉37 | 3♊27 | 8♍53 | 2°R16 | 21♉36 | 12♊57 | 28♉56 | 2°R46 | 1♏35 | 11♐19 | n.a. | S 1 |
| S 2 | 18 28 54 | 6°14'48 | 1♎31 | 16°57 | 20°35 | 4° 6 | 9° 2 | 2♏12 | 21°38 | 12°59 | 28°57 | 2°D45 | 1°32 | 11°26 | n.a. | S 2 |
| M 3 | 18 32 51 | 7°12'11 | 14° 0 | 18°12 | 21°33 | 4°46 | 9°11 | 2° 7 | 21°41 | 13° 1 | 28°59 | 2♏45 | 1°29 | 11°33 | n.a. | M 3 |
| T 4 | 18 36 47 | 8° 9'34 | 26°11 | 19°31 | 22°31 | 5°25 | 9°20 | 2° 3 | 21°44 | 13° 3 | 29° 0 | 2°46 | 1°25 | 11°39 | n.a. | T 4 |
| W 5 | 18 40 44 | 9° 6'58 | 8♏10 | 20°55 | 23°31 | 6° 5 | 9°29 | 1°58 | 21°47 | 13° 5 | 29° 1 | 2°R46 | 1°22 | 11°46 | n.a. | W 5 |
| T 6 | 18 44 40 | 10° 4'22 | 20° 1 | 22°24 | 24°30 | 6°44 | 9°38 | 1°54 | 21°49 | 13° 7 | 29° 2 | 2°44 | 1°19 | 11°53 | n.a. | T 6 |
| F 7 | 18 48 37 | 11° 1'48 | 1♐49 | 23°58 | 25°30 | 7°23 | 9°48 | 1°50 | 21°52 | 13° 9 | 29° 3 | 2°41 | 1°16 | 11°59 | n.a. | F 7 |
| S 8 | 18 52 34 | 11°59'15 | 13°38 | 25°36 | 26°30 | 8° 3 | 9°57 | 1°45 | 21°54 | 13°11 | 29° 4 | 2°34 | 1°13 | 12° 6 | n.a. | S 8 |
| S 9 | 18 56 30 | 12°56'42 | 25°31 | 27°18 | 27°30 | 8°42 | 10° 7 | 1°41 | 21°57 | 13°13 | 29° 5 | 2°25 | 1°10 | 12°13 | n.a. | S 9 |
| M10 | 19 0 27 | 13°54'11 | 7♑30 | 29° 3 | 28°31 | 9°21 | 10°16 | 1°37 | 21°59 | 13°15 | 29° 6 | 2°14 | 1° 6 | 12°19 | n.a. | M10 |
| T 11 | 19 4 23 | 14°51'41 | 19°36 | 0♒52 | 29°32 | 10° 0 | 10°26 | 1°32 | 22° 2 | 13°17 | 29° 7 | 2° 2 | 1° 3 | 12°26 | n.a. | T 11 |
| W12 | 19 8 20 | 15°49'13 | 1♓51 | 2°43 | 0♊34 | 10°39 | 10°36 | 1°28 | 22° 4 | 13°19 | 29° 8 | 1°49 | 1° 0 | 12°33 | n.a. | W12 |
| T 13 | 19 12 16 | 16°46'45 | 14°15 | 4°37 | 1°36 | 11°18 | 10°46 | 1°24 | 22° 7 | 13°21 | 29° 9 | 1°37 | 0°57 | 12°39 | n.a. | T 13 |
| F 14 | 19 16 13 | 17°44'19 | 26°50 | 6°34 | 2°38 | 11°57 | 10°56 | 1°20 | 22° 9 | 13°23 | 29°10 | 1°27 | 0°54 | 12°46 | n.a. | F 14 |
| S 15 | 19 20 9 | 18°41'55 | 9♈35 | 8°32 | 3°40 | 12°36 | 11° 6 | 1°15 | 22°11 | 13°25 | 29°11 | 1°19 | 0°51 | 12°53 | n.a. | S 15 |
| S 16 | 19 24 6 | 19°39'32 | 22°34 | 10°31 | 4°43 | 13°15 | 11°16 | 1°11 | 22°14 | 13°27 | 29°12 | 1°15 | 0°47 | 12°59 | n.a. | S 16 |
| M17 | 19 28 3 | 20°37'10 | 5♈47 | 12°32 | 5°46 | 13°54 | 11°26 | 1° 7 | 22°16 | 13°28 | 29°13 | 1°12 | 0°44 | 13° 6 | n.a. | M17 |
| T 18 | 19 31 59 | 21°34'51 | 19°16 | 14°33 | 6°49 | 14°33 | 11°36 | 1° 3 | 22°18 | 13°30 | 29°14 | 1°D12 | 0°41 | 13°13 | n.a. | T 18 |
| W19 | 19 35 56 | 22°32'33 | 3♉ 4 | 16°35 | 7°52 | 15°12 | 11°47 | 0°59 | 22°20 | 13°32 | 29°15 | 1°R12 | 0°38 | 13°19 | n.a. | W19 |
| T 20 | 19 39 52 | 23°30'17 | 17°11 | 18°37 | 8°56 | 15°50 | 11°57 | 0°55 | 22°22 | 13°34 | 29°16 | 1°11 | 0°35 | 13°26 | n.a. | T 20 |
| F 21 | 19 43 49 | 24°28'02 | 1♊38 | 20°38 | 10° 0 | 16°29 | 12° 8 | 0°51 | 22°24 | 13°36 | 29°17 | 1° 9 | 0°31 | 13°33 | n.a. | F 21 |
| S 22 | 19 47 45 | 25°25'50 | 16°20 | 22°40 | 11° 5 | 17° 8 | 12°18 | 0°48 | 22°26 | 13°38 | 29°18 | 1° 4 | 0°28 | 13°39 | n.a. | S 22 |
| S 23 | 19 51 42 | 26°23'39 | 1♋14 | 24°40 | 12° 9 | 17°46 | 12°29 | 0°44 | 22°28 | 13°39 | 29°19 | 0°56 | 0°25 | 13°46 | n.a. | S 23 |
| M24 | 19 55 38 | 27°21'30 | 16°10 | 26°40 | 13°14 | 18°24 | 12°40 | 0°40 | 22°30 | 13°41 | 29°20 | 0°46 | 0°22 | 13°53 | n.a. | M24 |
| T 25 | 19 59 35 | 28°19'23 | 1♌ 1 | 28°39 | 14°19 | 19° 3 | 12°51 | 0°36 | 22°32 | 13°43 | 29°21 | 0°35 | 0°19 | 14° 0 | n.a. | T 25 |
| W26 | 20 3 32 | 29°17'17 | 15°37 | 0♌38 | 15°24 | 19°41 | 13° 2 | 0°33 | 22°34 | 13°44 | 29°21 | 0°24 | 0°16 | 14° 6 | n.a. | W26 |
| T 27 | 20 7 28 | 0♌15'13 | 29°51 | 2°35 | 16°29 | 20°20 | 13°13 | 0°29 | 22°36 | 13°46 | 29°22 | 0°14 | 0°12 | 14°13 | n.a. | T 27 |
| F 28 | 20 11 25 | 1°13'10 | 13♍38 | 4°31 | 17°35 | 20°58 | 13°24 | 0°26 | 22°38 | 13°48 | 29°23 | 0° 6 | 0° 9 | 14°20 | n.a. | F 28 |
| S 29 | 20 15 21 | 2°11'09 | 26°58 | 6°26 | 18°41 | 21°36 | 13°35 | 0°22 | 22°39 | 13°49 | 29°24 | 0° 0 | 0° 6 | 14°26 | n.a. | S 29 |
| S 30 | 20 19 18 | 3° 9'09 | 9♎52 | 8°19 | 19°47 | 22°14 | 13°47 | 0°19 | 22°41 | 13°51 | 29°24 | 29♎57 | 0° 3 | 14°33 | n.a. | S 30 |
| M31 | 20 23 14 | 4♌ 7'10 | 22♎22 | 10♌12 | 20♊53 | 22♊52 | 13♍58 | 0♏15 | 22♉43 | 13♊53 | 29♉25 | 29♎56 | 29♎59 | 14♐40 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| S 1 | 23n36 | 1n16 | 3s33 | 21n10 | 1s47 | 14n34 | 3s24 | 21n17 | 0n13 | 9n33 | 1n20 | 23s32 | 0n 9 | 18n11 | 0s11 | 21n28 | 1s 8 | 13n 9 | 7s10 | 12s34 | 12s 9 | 19s 7 | | n.a. | S 1 |
| S 2 | 23 33 | 3s 2 | 2 39 | 21 31 | 1 33 | 14 51 | 3 22 | 21 25 | 0 13 | 9 30 | 1 19 | 23 32 | 0 9 | 18 12 | 0 11 | 21 28 | 1 8 | 13 9 | 7 10 | 12 34 | 12 8 | 19 7 | | n.a. | S 2 |
| M 3 | 23 30 | 7 5 | 1 39 | 21 52 | 1 18 | 15 7 | 3 20 | 21 33 | 0 14 | 9 26 | 1 19 | 23 32 | 0 9 | 18 13 | 0 11 | 21 29 | 1 8 | 13 10 | 7 10 | 12 34 | 12 7 | 19 8 | | n.a. | M 3 |
| T 4 | 23 27 | 10 46 | 0 35 | 22 13 | 1 4 | 15 24 | 3 19 | 21 41 | 0 15 | 9 22 | 1 19 | 23 33 | 0 9 | 18 13 | 0 11 | 21 29 | 1 8 | 13 10 | 7 10 | 12 34 | 12 6 | 19 8 | | n.a. | T 4 |
| W 5 | 23 23 | 13 56 | 0n29 | 22 34 | 0 50 | 15 41 | 3 17 | 21 49 | 0 15 | 9 19 | 1 19 | 23 33 | 0 8 | 18 14 | 0 11 | 21 29 | 1 8 | 13 10 | 7 10 | 12 34 | 12 5 | 19 8 | | n.a. | W 5 |
| T 6 | 23 19 | 16 29 | 1 31 | 22 53 | 0 36 | 15 57 | 3 15 | 21 56 | 0 16 | 9 15 | 1 19 | 23 33 | 0 8 | 18 15 | 0 11 | 21 29 | 1 8 | 13 10 | 7 10 | 12 33 | 12 4 | 19 8 | | n.a. | T 6 |
| F 7 | 23 14 | 18 20 | 2 28 | 23 12 | 0 22 | 16 14 | 3 13 | 22 3 | 0 17 | 9 11 | 1 19 | 23 33 | 0 8 | 18 15 | 0 11 | 21 30 | 1 8 | 13 10 | 7 10 | 12 32 | 12 3 | 19 9 | | n.a. | F 7 |
| S 8 | 23 9 | 19 23 | 3 19 | 23 29 | 0 9 | 16 30 | 3 10 | 22 10 | 0 17 | 9 8 | 1 18 | 23 33 | 0 8 | 18 16 | 0 11 | 21 30 | 1 8 | 13 10 | 7 10 | 12 30 | 12 1 | 19 9 | | n.a. | S 8 |
| S 9 | 23 4 | 19 36 | 4 2 | 23 44 | 0n 4 | 16 46 | 3 8 | 22 17 | 0 18 | 9 4 | 1 18 | 23 33 | 0 8 | 18 17 | 0 11 | 21 30 | 1 8 | 13 11 | 7 10 | 12 27 | 12 0 | 19 9 | | n.a. | S 9 |
| M10 | 22 58 | 18 56 | 4 34 | 23 58 | 0 16 | 17 2 | 3 6 | 22 24 | 0 19 | 9 0 | 1 18 | 23 34 | 0 8 | 18 17 | 0 11 | 21 30 | 1 8 | 13 11 | 7 10 | 12 23 | 11 59 | 19 9 | | n.a. | M10 |
| T 11 | 22 52 | 17 24 | 4 54 | 24 9 | 0 27 | 17 17 | 3 3 | 22 31 | 0 19 | 8 56 | 1 18 | 23 34 | 0 8 | 18 18 | 0 11 | 21 31 | 1 8 | 13 11 | 7 10 | 12 19 | 11 58 | 19 9 | | n.a. | T 11 |
| W12 | 22 45 | 15 4 | 5 1 | 24 18 | 0 38 | 17 33 | 3 1 | 22 37 | 0 20 | 8 52 | 1 18 | 23 34 | 0 8 | 18 19 | 0 11 | 21 31 | 1 8 | 13 11 | 7 10 | 12 14 | 11 57 | 19 10 | | n.a. | W12 |
| T 13 | 22 38 | 12 3 | 4 54 | 24 25 | 0 48 | 17 48 | 2 58 | 22 43 | 0 21 | 8 48 | 1 18 | 23 34 | 0 8 | 18 19 | 0 11 | 21 31 | 1 8 | 13 11 | 7 10 | 12 10 | 11 56 | 19 10 | | n.a. | T 13 |
| F 14 | 22 31 | 8 26 | 4 33 | 24 29 | 0 57 | 18 3 | 2 55 | 22 49 | 0 21 | 8 44 | 1 17 | 23 34 | 0 8 | 18 20 | 0 11 | 21 31 | 1 9 | 13 11 | 7 10 | 12 6 | 11 55 | 19 10 | | n.a. | F 14 |
| S 15 | 22 23 | 4 24 | 3 57 | 24 31 | 1 6 | 18 18 | 2 53 | 22 55 | 0 22 | 8 40 | 1 17 | 23 34 | 0 7 | 18 20 | 0 11 | 21 32 | 1 9 | 13 12 | 7 10 | 12 4 | 11 54 | 19 10 | | n.a. | S 15 |
| S 16 | 22 15 | 0 5 | 3 9 | 24 30 | 1 14 | 18 32 | 2 50 | 23 1 | 0 23 | 8 36 | 1 17 | 23 34 | 0 7 | 18 21 | 0 11 | 21 32 | 1 9 | 13 12 | 7 10 | 12 2 | 11 52 | 19 10 | | n.a. | S 16 |
| M17 | 22 6 | 4n18 | 2 10 | 24 26 | 1 21 | 18 46 | 2 47 | 23 7 | 0 24 | 8 32 | 1 17 | 23 34 | 0 7 | 18 22 | 0 11 | 21 32 | 1 9 | 13 12 | 7 11 | 12 1 | 11 51 | 19 10 | | n.a. | M17 |
| T 18 | 21 57 | 8 35 | 1 3 | 24 20 | 1 27 | 19 0 | 2 44 | 23 12 | 0 24 | 8 28 | 1 17 | 23 35 | 0 7 | 18 22 | 0 11 | 21 32 | 1 9 | 13 12 | 7 11 | 12 1 | 11 50 | 19 11 | | n.a. | T 18 |
| W19 | 21 48 | 12 31 | 0s10 | 24 11 | 1 32 | 19 13 | 2 41 | 23 17 | 0 25 | 8 24 | 1 17 | 23 35 | 0 7 | 18 23 | 0 11 | 21 32 | 1 9 | 13 12 | 7 11 | 12 1 | 11 49 | 19 11 | | n.a. | W19 |
| T 20 | 21 38 | 15 49 | 1 24 | 23 59 | 1 36 | 19 26 | 2 37 | 23 22 | 0 26 | 8 20 | 1 16 | 23 35 | 0 7 | 18 23 | 0 11 | 21 33 | 1 9 | 13 12 | 7 11 | 12 1 | 11 48 | 19 11 | | n.a. | T 20 |
| F 21 | 21 28 | 18 12 | 2 34 | 23 45 | 1 40 | 19 39 | 2 34 | 23 27 | 0 26 | 8 15 | 1 16 | 23 35 | 0 7 | 18 24 | 0 11 | 21 33 | 1 9 | 13 12 | 7 11 | 12 0 | 11 47 | 19 11 | | n.a. | F 21 |
| S 22 | 21 17 | 19 26 | 3 35 | 23 28 | 1 43 | 19 51 | 2 31 | 23 31 | 0 27 | 8 11 | 1 16 | 23 35 | 0 7 | 18 24 | 0 11 | 21 33 | 1 9 | 13 12 | 7 11 | 11 58 | 11 46 | 19 11 | | n.a. | S 22 |
| S 23 | 21 6 | 19 20 | 4 22 | 23 9 | 1 45 | 20 3 | 2 28 | 23 36 | 0 28 | 8 7 | 1 16 | 23 35 | 0 7 | 18 25 | 0 11 | 21 33 | 1 9 | 13 12 | 7 11 | 11 56 | 11 45 | 19 11 | | n.a. | S 23 |
| M24 | 20 55 | 17 54 | 4 51 | 22 47 | 1 46 | 20 15 | 2 24 | 23 40 | 0 28 | 8 3 | 1 16 | 23 35 | 0 7 | 18 25 | 0 11 | 21 33 | 1 9 | 13 13 | 7 11 | 11 52 | 11 43 | 19 12 | | n.a. | M24 |
| T 25 | 20 43 | 15 16 | 5 1 | 22 24 | 1 47 | 20 26 | 2 21 | 23 44 | 0 29 | 7 58 | 1 16 | 23 35 | 0 7 | 18 26 | 0 11 | 21 34 | 1 9 | 13 13 | 7 11 | 11 48 | 11 42 | 19 12 | | n.a. | T 25 |
| W26 | 20 31 | 11 43 | 4 50 | 21 59 | 1 47 | 20 37 | 2 17 | 23 48 | 0 30 | 7 54 | 1 16 | 23 36 | 0 6 | 18 26 | 0 11 | 21 34 | 1 9 | 13 13 | 7 11 | 11 44 | 11 41 | 19 12 | | n.a. | W26 |
| T 27 | 20 19 | 7 34 | 4 22 | 21 32 | 1 47 | 20 47 | 2 14 | 23 51 | 0 31 | 7 49 | 1 15 | 23 36 | 0 6 | 18 27 | 0 11 | 21 34 | 1 9 | 13 13 | 7 11 | 11 40 | 11 40 | 19 12 | | n.a. | T 27 |
| F 28 | 20 6 | 3 8 | 3 39 | 21 3 | 1 45 | 20 57 | 2 10 | 23 55 | 0 31 | 7 45 | 1 15 | 23 36 | 0 6 | 18 27 | 0 11 | 21 34 | 1 9 | 13 13 | 7 11 | 11 38 | 11 39 | 19 12 | | n.a. | F 28 |
| S 29 | 19 53 | 1s18 | 2 45 | 20 33 | 1 44 | 21 7 | 2 7 | 23 58 | 0 32 | 7 41 | 1 15 | 23 36 | 0 6 | 18 28 | 0 11 | 21 34 | 1 9 | 13 13 | 7 12 | 11 36 | 11 38 | 19 12 | | n.a. | S 29 |
| S 30 | 19 40 | 5 32 | 1 44 | 20 1 | 1 42 | 21 16 | 2 3 | 24 1 | 0 33 | 7 36 | 1 15 | 23 36 | 0 6 | 18 28 | 0 11 | 21 34 | 1 9 | 13 13 | 7 12 | 11 35 | 11 37 | 19 12 | | n.a. | S 30 |
| M31 | 19n26 | 9s25 | 0s40 | 19n28 | 1n39 | 21n24 | 1s59 | 24n 4 | 0n33 | 7n32 | 1n15 | 23s36 | 0n 6 | 18n29 | 0s11 | 21n35 | 1s 9 | 13n13 | 7s12 | 11s34 | 11s36 | 19s13 | | n.a. | M31 |

Julian Day Number = 1695306.5, Delta T = 03h08m22s
Ecliptic obliquity = 23°42'05, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°03'05, Lahiri = - 4°56'05 Julian Calendar 1 July 72 BCE == Greg. Calendar 29 June 072 BCE

The year -71 astronomical counting style corresponds to year 072 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 72 BCE
# geocentric

## AUGUST 72 BCE (-71) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 27 11 | 5♌ 5'14 | 4♏34 | 12♌ 3 | 21♊59 | 23♊30 | 14♍ 9 | 0°R12 | 22♉44 | 13♊54 | 29♉26 | 29°R56 | 29♎57 | 14♐46 | n.a. | T 1 |
| W 2 | 20 31 7 | 6° 3'18 | 16°34 | 13°53 | 23° 6 | 24° 8 | 14°21 | 0♑ 9 | 22°46 | 13°56 | 29°27 | 29♎56 | 29°53 | 14°53 | n.a. | W 2 |
| T 3 | 20 35 4 | 7° 1'24 | 28°25 | 15°42 | 24°13 | 24°46 | 14°32 | 0° 6 | 22°47 | 13°57 | 29°27 | 29°54 | 29°50 | 15° 0 | n.a. | T 3 |
| F 4 | 20 39 1 | 7°59'32 | 10♐14 | 17°29 | 25°20 | 25°24 | 14°44 | 0° 3 | 22°49 | 13°59 | 29°28 | 29°51 | 29°47 | 15° 6 | n.a. | F 4 |
| S 5 | 20 42 57 | 8°57'41 | 22° 6 | 19°15 | 26°27 | 26° 2 | 14°55 | 29♐59 | 22°50 | 14° 0 | 29°29 | 29°44 | 29°44 | 15°13 | n.a. | S 5 |
| S 6 | 20 46 54 | 9°55'52 | 4♑ 3 | 21° 0 | 27°34 | 26°39 | 15° 7 | 29°57 | 22°51 | 14° 2 | 29°29 | 29°35 | 29°41 | 15°20 | n.a. | S 6 |
| M 7 | 20 50 50 | 10°54'05 | 16° 9 | 22°44 | 28°42 | 27°17 | 15°19 | 29°54 | 22°53 | 14° 3 | 29°30 | 29°24 | 29°37 | 15°26 | n.a. | M 7 |
| T 8 | 20 54 47 | 11°52'19 | 28°26 | 24°27 | 29°49 | 27°55 | 15°31 | 29°52 | 22°54 | 14° 4 | 29°30 | 29°12 | 29°34 | 15°33 | n.a. | T 8 |
| W 9 | 20 58 43 | 12°50'35 | 10♒55 | 26° 8 | 0♋57 | 28°32 | 15°43 | 29°49 | 22°55 | 14° 6 | 29°31 | 28°59 | 29°31 | 15°40 | n.a. | W 9 |
| T 10 | 21 2 40 | 13°48'53 | 23°35 | 27°48 | 2° 5 | 29°10 | 15°55 | 29°46 | 22°56 | 14° 7 | 29°31 | 28°46 | 29°28 | 15°47 | n.a. | T 10 |
| F 11 | 21 6 36 | 14°47'13 | 6♓28 | 29°27 | 3°13 | 29°47 | 16° 7 | 29°44 | 22°58 | 14° 8 | 29°32 | 28°36 | 29°25 | 15°53 | n.a. | F 11 |
| S 12 | 21 10 33 | 15°45'35 | 19°32 | 1♍ 5 | 4°22 | 0♋25 | 16°19 | 29°41 | 22°59 | 14°10 | 29°32 | 28°28 | 29°22 | 16° 0 | n.a. | S 12 |
| S 13 | 21 14 30 | 16°44'00 | 2♈46 | 2°42 | 5°30 | 1° 2 | 16°31 | 29°39 | 23° 0 | 14°11 | 29°33 | 28°23 | 29°18 | 16° 7 | n.a. | S 13 |
| M14 | 21 18 26 | 17°42'26 | 16°12 | 4°18 | 6°39 | 1°39 | 16°43 | 29°37 | 23° 1 | 14°12 | 29°33 | 28°20 | 29°15 | 16°13 | n.a. | M14 |
| T 15 | 21 22 23 | 18°40'54 | 29°49 | 5°52 | 7°48 | 2°16 | 16°55 | 29°35 | 23° 1 | 14°13 | 29°34 | 28°D20 | 29°12 | 16°20 | n.a. | T 15 |
| W16 | 21 26 19 | 19°39'25 | 13♉38 | 7°26 | 8°57 | 2°53 | 17° 7 | 29°33 | 23° 2 | 14°14 | 29°34 | 28°R20 | 29° 9 | 16°27 | n.a. | W16 |
| T 17 | 21 30 16 | 20°37'59 | 27°39 | 8°58 | 10° 6 | 3°31 | 17°20 | 29°31 | 23° 3 | 14°15 | 29°34 | 28°20 | 29° 6 | 16°33 | n.a. | T 17 |
| F 18 | 21 34 12 | 21°36'34 | 11♊52 | 10°29 | 11°15 | 4° 8 | 17°32 | 29°29 | 23° 4 | 14°17 | 29°35 | 28°19 | 29° 3 | 16°40 | n.a. | F 18 |
| S 19 | 21 38 9 | 22°35'12 | 26°15 | 12° 0 | 12°24 | 4°45 | 17°44 | 29°27 | 23° 5 | 14°18 | 29°35 | 28°15 | 28°59 | 16°47 | n.a. | S 19 |
| S 20 | 21 42 5 | 23°33'52 | 10♋45 | 13°29 | 13°34 | 5°22 | 17°57 | 29°25 | 23° 5 | 14°19 | 29°35 | 28° 8 | 28°56 | 16°53 | n.a. | S 20 |
| M21 | 21 46 2 | 24°32'35 | 25°18 | 14°57 | 14°44 | 5°58 | 18° 9 | 29°24 | 23° 6 | 14°20 | 29°36 | 28° 0 | 28°53 | 17° 0 | n.a. | M21 |
| T 22 | 21 49 59 | 25°31'20 | 9♌45 | 16°24 | 15°53 | 6°35 | 18°22 | 29°22 | 23° 6 | 14°21 | 29°36 | 27°50 | 28°50 | 17° 7 | n.a. | T 22 |
| W23 | 21 53 55 | 26°30'07 | 24° 2 | 17°50 | 17° 3 | 7°12 | 18°34 | 29°21 | 23° 7 | 14°22 | 29°36 | 27°40 | 28°47 | 17°13 | n.a. | W23 |
| T 24 | 21 57 52 | 27°28'55 | 8♍ 2 | 19°14 | 18°13 | 7°49 | 18°47 | 29°19 | 23° 7 | 14°23 | 29°36 | 27°31 | 28°43 | 17°20 | n.a. | T 24 |
| F 25 | 22 1 48 | 28°27'46 | 21°41 | 20°38 | 19°24 | 8°25 | 18°59 | 29°18 | 23° 8 | 14°23 | 29°37 | 27°24 | 28°40 | 17°27 | n.a. | F 25 |
| S 26 | 22 5 45 | 29°26'39 | 4♎56 | 22° 0 | 20°34 | 9° 2 | 19°12 | 29°17 | 23° 8 | 14°24 | 29°37 | 27°19 | 28°37 | 17°34 | n.a. | S 26 |
| S 27 | 22 9 41 | 0♍25'34 | 17°48 | 23°22 | 21°44 | 9°38 | 19°25 | 29°16 | 23° 8 | 14°25 | 29°37 | 27°17 | 28°34 | 17°40 | n.a. | S 27 |
| M28 | 22 13 38 | 1°24'31 | 0♏19 | 24°41 | 22°55 | 10°15 | 19°37 | 29°15 | 23° 9 | 14°26 | 29°37 | 27°D17 | 28°31 | 17°47 | n.a. | M28 |
| T 29 | 22 17 34 | 2°23'29 | 12°32 | 26° 0 | 24° 6 | 10°51 | 19°50 | 29°14 | 23° 9 | 14°27 | 29°37 | 27°17 | 28°28 | 17°54 | n.a. | T 29 |
| W30 | 22 21 31 | 3°22'30 | 24°33 | 27°17 | 25°16 | 11°27 | 20° 3 | 29°13 | 23° 9 | 14°27 | 29°37 | 27°18 | 28°24 | 18° 0 | n.a. | W30 |
| T 31 | 22 25 27 | 4♍21'32 | 6♐26 | 28♍33 | 26♋27 | 12♋ 3 | 20♍16 | 29♐13 | 23♉ 9 | 14♊28 | 29♉37 | 27°R19 | 28♎21 | 18♐ 7 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 19n12 | 12s48 | 0n25 | 18n54 | 1n36 | 21n32 | 1s55 | 24n 7 | 0n34 | 7n27 | 1n15 | 23s36 | 0n 6 | 18n29 | 0s11 | 21n35 | 1s 9 | 13n13 | 7s12 | 11s34 | 11s34 | 19s13 | | | n.a. |
| W 2 | 18 58 | 15 35 | 1 27 | 18 19 | 1 32 | 21 40 | 1 52 | 24 9 | 0 35 | 7 22 | 1 15 | 23 36 | 0 6 | 18 29 | 0 11 | 21 35 | 1 9 | 13 13 | 7 12 | 11 34 | 11 33 | 19 13 | | | n.a. |
| T 3 | 18 43 | 17 40 | 2 25 | 17 43 | 1 28 | 21 47 | 1 48 | 24 11 | 0 36 | 7 18 | 1 15 | 23 36 | 0 6 | 18 30 | 0 11 | 21 35 | 1 9 | 13 13 | 7 12 | 11 34 | 11 32 | 19 13 | | | n.a. |
| F 4 | 18 28 | 19 0 | 3 16 | 17 6 | 1 24 | 21 53 | 1 44 | 24 14 | 0 36 | 7 13 | 1 14 | 23 36 | 0 6 | 18 30 | 0 11 | 21 35 | 1 9 | 13 13 | 7 12 | 11 32 | 11 31 | 19 13 | | | n.a. |
| S 5 | 18 13 | 19 29 | 3 59 | 16 28 | 1 19 | 21 59 | 1 40 | 24 16 | 0 37 | 7 9 | 1 14 | 23 37 | 0 5 | 18 30 | 0 11 | 21 35 | 1 9 | 13 13 | 7 12 | 11 30 | 11 30 | 19 13 | | | n.a. |
| S 6 | 17 57 | 19 7 | 4 32 | 15 49 | 1 14 | 22 4 | 1 36 | 24 17 | 0 38 | 7 4 | 1 14 | 23 37 | 0 5 | 18 31 | 0 11 | 21 36 | 1 9 | 13 13 | 7 12 | 11 27 | 11 29 | 19 13 | | | n.a. |
| M 7 | 17 41 | 17 52 | 4 53 | 15 10 | 1 9 | 22 9 | 1 33 | 24 19 | 0 39 | 6 59 | 1 14 | 23 37 | 0 5 | 18 31 | 0 11 | 21 36 | 1 9 | 13 13 | 7 12 | 11 23 | 11 28 | 19 13 | | | n.a. |
| T 8 | 17 25 | 15 47 | 5 1 | 14 31 | 1 3 | 22 13 | 1 29 | 24 20 | 0 39 | 6 54 | 1 14 | 23 37 | 0 5 | 18 32 | 0 11 | 21 36 | 1 9 | 13 13 | 7 13 | 11 18 | 11 27 | 19 13 | | | n.a. |
| W 9 | 17 8 | 12 58 | 4 54 | 13 51 | 0 57 | 22 17 | 1 25 | 24 22 | 0 40 | 6 50 | 1 14 | 23 37 | 0 5 | 18 32 | 0 11 | 21 36 | 1 9 | 13 13 | 7 13 | 11 14 | 11 25 | 19 14 | | | n.a. |
| T 10 | 16 52 | 9 30 | 4 34 | 13 10 | 0 51 | 22 20 | 1 21 | 24 23 | 0 41 | 6 45 | 1 14 | 23 37 | 0 5 | 18 32 | 0 11 | 21 36 | 1 9 | 13 13 | 7 13 | 11 9 | 11 24 | 19 14 | | | n.a. |
| F 11 | 16 35 | 5 33 | 3 58 | 12 29 | 0 45 | 22 23 | 1 17 | 24 24 | 0 41 | 6 40 | 1 14 | 23 37 | 0 5 | 18 32 | 0 11 | 21 36 | 1 9 | 13 13 | 7 13 | 11 6 | 11 23 | 19 14 | | | n.a. |
| S 12 | 16 17 | 1 17 | 3 10 | 11 48 | 0 38 | 22 25 | 1 13 | 24 24 | 0 42 | 6 35 | 1 14 | 23 37 | 0 5 | 18 33 | 0 11 | 21 36 | 1 9 | 13 13 | 7 13 | 11 3 | 11 22 | 19 14 | | | n.a. |
| S 13 | 16 0 | 3n 7 | 2 11 | 11 7 | 0 32 | 22 26 | 1 9 | 24 25 | 0 43 | 6 30 | 1 14 | 23 37 | 0 5 | 18 33 | 0 11 | 21 37 | 1 9 | 13 13 | 7 13 | 11 1 | 11 21 | 19 14 | | | n.a. |
| M14 | 15 42 | 7 25 | 1 4 | 10 25 | 0 25 | 22 27 | 1 5 | 24 25 | 0 44 | 6 26 | 1 13 | 23 37 | 0 5 | 18 33 | 0 11 | 21 37 | 1 9 | 13 13 | 7 13 | 11 0 | 11 20 | 19 14 | | | n.a. |
| T 15 | 15 23 | 11 24 | 0s 8 | 9 44 | 0 18 | 22 27 | 1 1 | 24 25 | 0 44 | 6 21 | 1 13 | 23 38 | 0 5 | 18 33 | 0 11 | 21 37 | 1 9 | 13 13 | 7 13 | 11 0 | 11 19 | 19 14 | | | n.a. |
| W16 | 15 5 | 14 49 | 1 20 | 9 2 | 0 10 | 22 26 | 0 57 | 24 25 | 0 45 | 6 16 | 1 13 | 23 38 | 0 4 | 18 34 | 0 11 | 21 37 | 1 9 | 13 13 | 7 13 | 11 0 | 11 17 | 19 14 | | | n.a. |
| T 17 | 14 46 | 17 26 | 2 29 | 8 20 | 0 3 | 22 25 | 0 54 | 24 25 | 0 46 | 6 11 | 1 13 | 23 38 | 0 4 | 18 34 | 0 11 | 21 37 | 1 9 | 13 13 | 7 14 | 11 0 | 11 16 | 19 14 | | | n.a. |
| F 18 | 14 27 | 18 59 | 3 30 | 7 39 | 0s 4 | 22 24 | 0 50 | 24 25 | 0 47 | 6 6 | 1 13 | 23 38 | 0 4 | 18 34 | 0 11 | 21 37 | 1 9 | 13 13 | 7 14 | 10 59 | 11 15 | 19 14 | | | n.a. |
| S 19 | 14 8 | 19 21 | 4 18 | 6 57 | 0 12 | 22 21 | 0 46 | 24 24 | 0 47 | 6 1 | 1 13 | 23 38 | 0 4 | 18 34 | 0 11 | 21 37 | 1 9 | 13 13 | 7 14 | 10 58 | 11 14 | 19 14 | | | n.a. |
| S 20 | 13 49 | 18 27 | 4 50 | 6 16 | 0 20 | 22 18 | 0 42 | 24 24 | 0 48 | 5 56 | 1 13 | 23 38 | 0 4 | 18 34 | 0 11 | 21 37 | 1 9 | 13 13 | 7 14 | 10 56 | 11 13 | 19 14 | | | n.a. |
| M21 | 13 29 | 16 20 | 5 3 | 5 34 | 0 27 | 22 15 | 0 38 | 24 23 | 0 49 | 5 51 | 1 13 | 23 38 | 0 4 | 18 35 | 0 11 | 21 37 | 1 9 | 13 13 | 7 14 | 10 53 | 11 12 | 19 14 | | | n.a. |
| T 22 | 13 9 | 13 14 | 4 57 | 4 53 | 0 35 | 22 11 | 0 34 | 24 22 | 0 50 | 5 46 | 1 13 | 23 38 | 0 4 | 18 35 | 0 11 | 21 37 | 1 9 | 13 13 | 7 14 | 10 49 | 11 11 | 19 15 | | | n.a. |
| W23 | 12 49 | 9 22 | 4 32 | 4 12 | 0 43 | 22 6 | 0 30 | 24 21 | 0 50 | 5 41 | 1 13 | 23 38 | 0 4 | 18 35 | 0 11 | 21 38 | 1 9 | 13 13 | 7 14 | 10 45 | 11 9 | 19 15 | | | n.a. |
| T 24 | 12 29 | 5 4 | 3 52 | 3 32 | 0 51 | 22 0 | 0 27 | 24 19 | 0 51 | 5 36 | 1 13 | 23 38 | 0 4 | 18 35 | 0 11 | 21 38 | 1 9 | 13 13 | 7 14 | 10 42 | 11 8 | 19 15 | | | n.a. |
| F 25 | 12 8 | 0 36 | 2 58 | 2 51 | 0 58 | 21 54 | 0 23 | 24 18 | 0 52 | 5 31 | 1 13 | 23 38 | 0 4 | 18 35 | 0 11 | 21 38 | 1 9 | 13 13 | 7 14 | 10 40 | 11 7 | 19 15 | | | n.a. |
| S 26 | 11 47 | 3s46 | 1 57 | 2 11 | 1 6 | 21 48 | 0 19 | 24 16 | 0 53 | 5 26 | 1 13 | 23 38 | 0 4 | 18 35 | 0 11 | 21 38 | 1 9 | 13 13 | 7 15 | 10 38 | 11 6 | 19 15 | | | n.a. |
| S 27 | 11 27 | 7 50 | 0 51 | 1 32 | 1 14 | 21 40 | 0 15 | 24 14 | 0 53 | 5 21 | 1 12 | 23 39 | 0 3 | 18 35 | 0 11 | 21 38 | 1 9 | 13 13 | 7 15 | 10 37 | 11 5 | 19 15 | | | n.a. |
| M28 | 11 5 | 11 27 | 0n16 | 0 53 | 1 22 | 21 32 | 0 12 | 24 12 | 0 54 | 5 16 | 1 12 | 23 39 | 0 3 | 18 35 | 0 11 | 21 38 | 1 9 | 13 12 | 7 15 | 10 37 | 11 4 | 19 15 | | | n.a. |
| T 29 | 10 44 | 14 29 | 1 21 | 0 14 | 1 30 | 21 24 | 0 8 | 24 10 | 0 55 | 5 10 | 1 12 | 23 39 | 0 3 | 18 35 | 0 11 | 21 38 | 1 9 | 13 12 | 7 15 | 10 37 | 11 3 | 19 15 | | | n.a. |
| W30 | 10 23 | 16 50 | 2 21 | 0s24 | 1 37 | 21 14 | 0 5 | 24 8 | 0 56 | 5 5 | 1 12 | 23 39 | 0 3 | 18 35 | 0 11 | 21 38 | 1 10 | 13 12 | 7 15 | 10 38 | 11 1 | 19 15 | | | n.a. |
| T 31 | 10n 1 | 18s25 | 3n15 | 1s 1 | 1s45 | 21n 5 | 0s 1 | 24n 5 | 0n57 | 5n 0 | 1n12 | 23s39 | 0n 3 | 18n35 | 0s11 | 21n38 | 1s10 | 13n12 | 7s15 | 10s38 | 11s 0 | 19s15 | | | n.a. |

Julian Day Number = 1695337.5, Delta T = 03h08m21s
Ecliptic obliquity = 23°42'05, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°03'01, Lahiri = - 4°56'00 Julian Calendar 1 Aug. 72 BCE == Greg. Calendar 30 July 072 BCE

The year -71 astronomical counting style corresponds to year 072 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 72 BCE
# geocentric

## SEPTEMBER 72 BCE (-71) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 22 29 24 | 5♍20'37 | 18♐16 | 29♍47 | 27♋38 | 12♋39 | 20♍29 | 29°R12 | 23°R 9 | 14♊29 | 29♉37 | 27°R18 | 28♎18 | 18♐14 | n.a. | F 1 |
| S 2 | 22 33 21 | 6°19'43 | 0♑ 9 | 1♎ 0 | 28°50 | 13°16 | 20°41 | 29♐12 | 23♉ 9 | 14°29 | 29°R37 | 27♎15 | 28°15 | 18°20 | n.a. | S 2 |
| S 3 | 22 37 17 | 7°18'51 | 12°10 | 2°11 | 0♌ 1 | 13°52 | 20°54 | 29°11 | 23° 9 | 14°30 | 29°37 | 27° 9 | 28°12 | 18°27 | n.a. | S 3 |
| M 4 | 22 41 14 | 8°18'01 | 24°21 | 3°20 | 1°12 | 14°27 | 21° 7 | 29°11 | 23° 9 | 14°31 | 29°37 | 27° 2 | 28° 8 | 18°34 | n.a. | M 4 |
| T 5 | 22 45 10 | 9°17'13 | 6♒46 | 4°27 | 2°24 | 15° 3 | 21°20 | 29°11 | 23° 9 | 14°31 | 29°37 | 26°54 | 28° 5 | 18°40 | n.a. | T 5 |
| W 6 | 22 49 7 | 10°16'27 | 19°27 | 5°32 | 3°35 | 15°39 | 21°33 | 29°D11 | 23° 9 | 14°32 | 29°37 | 26°46 | 28° 2 | 18°47 | n.a. | W 6 |
| T 7 | 22 53 3 | 11°15'43 | 2♓24 | 6°35 | 4°47 | 16°15 | 21°46 | 29°11 | 23° 8 | 14°32 | 29°37 | 26°38 | 27°59 | 18°54 | n.a. | T 7 |
| F 8 | 22 57 0 | 12°15'01 | 15°37 | 7°35 | 5°59 | 16°50 | 21°59 | 29°11 | 23° 8 | 14°32 | 29°37 | 26°31 | 27°56 | 19° 1 | n.a. | F 8 |
| S 9 | 23 0 56 | 13°14'21 | 29° 4 | 8°33 | 7°11 | 17°26 | 22°12 | 29°11 | 23° 8 | 14°33 | 29°37 | 26°26 | 27°53 | 19° 7 | n.a. | S 9 |
| S 10 | 23 4 53 | 14°13'43 | 12♈43 | 9°28 | 8°23 | 18° 1 | 22°25 | 29°12 | 23° 7 | 14°33 | 29°37 | 26°23 | 27°49 | 19°14 | n.a. | S 10 |
| M11 | 23 8 49 | 15°13'08 | 26°32 | 10°19 | 9°35 | 18°37 | 22°38 | 29°12 | 23° 7 | 14°34 | 29°36 | 26°D22 | 27°46 | 19°21 | n.a. | M11 |
| T 12 | 23 12 46 | 16°12'35 | 10♉28 | 11° 7 | 10°47 | 19°12 | 22°51 | 29°13 | 23° 6 | 14°34 | 29°36 | 26°23 | 27°43 | 19°27 | n.a. | T 12 |
| W13 | 23 16 43 | 17°12'04 | 24°30 | 11°52 | 11°59 | 19°47 | 23° 4 | 29°13 | 23° 5 | 14°34 | 29°36 | 26°24 | 27°40 | 19°34 | n.a. | W13 |
| T 14 | 23 20 39 | 18°11'36 | 8♊37 | 12°32 | 13°11 | 20°23 | 23°17 | 29°14 | 23° 5 | 14°34 | 29°36 | 26°25 | 27°37 | 19°41 | n.a. | T 14 |
| F 15 | 23 24 36 | 19°11'10 | 22°46 | 13° 7 | 14°24 | 20°58 | 23°30 | 29°15 | 23° 4 | 14°35 | 29°35 | 26°R26 | 27°34 | 19°47 | n.a. | F 15 |
| S 16 | 23 28 32 | 20°10'47 | 6♋57 | 13°38 | 15°37 | 21°33 | 23°43 | 29°16 | 23° 3 | 14°35 | 29°35 | 26°24 | 27°30 | 19°54 | n.a. | S 16 |
| S 17 | 23 32 29 | 21°10'26 | 21° 7 | 14° 3 | 16°49 | 22° 8 | 23°56 | 29°17 | 23° 3 | 14°35 | 29°35 | 26°22 | 27°27 | 20° 1 | n.a. | S 17 |
| M18 | 23 36 25 | 22°10'08 | 5♌13 | 14°22 | 18° 2 | 22°43 | 24°10 | 29°18 | 23° 2 | 14°35 | 29°34 | 26°17 | 27°24 | 20° 7 | n.a. | M18 |
| T 19 | 23 40 22 | 23° 9'52 | 19°13 | 14°34 | 19°15 | 23°17 | 24°23 | 29°19 | 23° 1 | 14°35 | 29°34 | 26°12 | 27°21 | 20°14 | n.a. | T 19 |
| W20 | 23 44 18 | 24° 9'38 | 3♍ 2 | 14°R39 | 20°28 | 23°52 | 24°36 | 29°20 | 23° 0 | 14°R35 | 29°34 | 26° 7 | 27°18 | 20°21 | n.a. | W20 |
| T 21 | 23 48 15 | 25° 9'26 | 16°38 | 14°37 | 21°41 | 24°27 | 24°49 | 29°22 | 22°59 | 14°35 | 29°33 | 26° 2 | 27°14 | 20°28 | n.a. | T 21 |
| F 22 | 23 52 12 | 26° 9'16 | 29°57 | 14°27 | 22°54 | 25° 1 | 25° 2 | 29°23 | 22°58 | 14°35 | 29°33 | 25°59 | 27°11 | 20°34 | n.a. | F 22 |
| S 23 | 23 56 8 | 27° 9'09 | 12♎59 | 14° 8 | 24° 7 | 25°36 | 25°15 | 29°25 | 22°57 | 14°35 | 29°32 | 25°56 | 27° 8 | 20°41 | n.a. | S 23 |
| S 24 | 0 0 5 | 28° 9'03 | 25°43 | 13°40 | 25°20 | 26°10 | 25°28 | 29°27 | 22°56 | 14°35 | 29°32 | 25°D56 | 27° 5 | 20°48 | n.a. | S 24 |
| M25 | 0 4 1 | 29° 8'59 | 8♏ 9 | 13° 3 | 26°33 | 26°44 | 25°41 | 29°29 | 22°54 | 14°35 | 29°31 | 25°56 | 27° 2 | 20°54 | n.a. | M25 |
| T 26 | 0 7 58 | 0♎ 8'58 | 20°21 | 12°17 | 27°47 | 27°18 | 25°54 | 29°31 | 22°53 | 14°34 | 29°31 | 25°58 | 26°59 | 21° 1 | n.a. | T 26 |
| W27 | 0 11 54 | 1° 8'58 | 2♐22 | 11°23 | 29° 0 | 27°53 | 26° 8 | 29°33 | 22°52 | 14°34 | 29°30 | 25°59 | 26°55 | 21° 8 | n.a. | W27 |
| T 28 | 0 15 51 | 2° 8'59 | 14°15 | 10°21 | 0♍14 | 28°27 | 26°21 | 29°35 | 22°51 | 14°34 | 29°30 | 26° 1 | 26°52 | 21°14 | n.a. | T 28 |
| F 29 | 0 19 47 | 3° 9'03 | 26° 6 | 9°12 | 1°27 | 29° 0 | 26°34 | 29°37 | 22°49 | 14°34 | 29°29 | 26° 2 | 26°49 | 21°21 | n.a. | F 29 |
| S 30 | 0 23 44 | 4♎ 9'08 | 7♑59 | 7♎59 | 2♍41 | 29♋34 | 26♍47 | 29♐39 | 22♉48 | 14♊33 | 29♉29 | 26°R 2 | 26♎46 | 21♐28 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 9n39 | 19s12 | 3n59 | 1s38 | 1s53 | 20n54 | 0n 3 | 24n 3 | 0n57 | 4n55 | 1n12 | 23s39 | 0n 3 | 18n35 | 0s11 | 21n38 | 1s10 | 13n12 | 7s15 | 10s37 | 10s59 | 19s15 | | n.a. |
| S 2 | 9 17 | 19 8 | 4 34 | 2 14 | 2 0 | 20 43 | 0 6 | 24 0 | 0 58 | 4 50 | 1 12 | 23 39 | 0 3 | 18 35 | 0 11 | 21 38 | 1 10 | 13 12 | 7 15 | 10 36 | 10 58 | 19 15 | | n.a. |
| S 3 | 8 55 | 18 12 | 4 57 | 2 49 | 2 7 | 20 31 | 0 9 | 23 57 | 0 59 | 4 45 | 1 12 | 23 39 | 0 3 | 18 35 | 0 11 | 21 38 | 1 10 | 13 12 | 7 16 | 10 34 | 10 57 | 19 15 | | n.a. |
| M 4 | 8 33 | 16 27 | 5 7 | 3 24 | 2 15 | 20 19 | 0 13 | 23 54 | 1 0 | 4 40 | 1 12 | 23 39 | 0 3 | 18 35 | 0 11 | 21 38 | 1 10 | 13 12 | 7 16 | 10 32 | 10 56 | 19 15 | | n.a. |
| T 5 | 8 10 | 13 54 | 5 3 | 3 57 | 2 22 | 20 6 | 0 16 | 23 51 | 1 1 | 4 34 | 1 12 | 23 39 | 0 3 | 18 35 | 0 11 | 21 38 | 1 10 | 13 12 | 7 16 | 10 29 | 10 55 | 19 15 | | n.a. |
| W 6 | 7 48 | 10 39 | 4 44 | 4 29 | 2 28 | 19 53 | 0 19 | 23 47 | 1 1 | 4 29 | 1 12 | 23 39 | 0 3 | 18 35 | 0 11 | 21 38 | 1 10 | 13 11 | 7 16 | 10 26 | 10 53 | 19 15 | | n.a. |
| T 7 | 7 25 | 6 51 | 4 10 | 5 0 | 2 35 | 19 39 | 0 23 | 23 44 | 1 2 | 4 24 | 1 12 | 23 40 | 0 2 | 18 35 | 0 11 | 21 38 | 1 10 | 13 11 | 7 16 | 10 23 | 10 52 | 19 15 | | n.a. |
| F 8 | 7 2 | 2 38 | 3 22 | 5 30 | 2 41 | 19 24 | 0 26 | 23 40 | 1 3 | 4 19 | 1 12 | 23 40 | 0 2 | 18 35 | 0 11 | 21 38 | 1 10 | 13 11 | 7 16 | 10 20 | 10 51 | 19 15 | | n.a. |
| S 9 | 6 39 | 1n48 | 2 22 | 5 59 | 2 47 | 19 9 | 0 29 | 23 36 | 1 4 | 4 14 | 1 12 | 23 40 | 0 2 | 18 35 | 0 11 | 21 38 | 1 10 | 13 11 | 7 16 | 10 18 | 10 50 | 19 15 | | n.a. |
| S 10 | 6 16 | 6 12 | 1 13 | 6 26 | 2 53 | 18 53 | 0 32 | 23 32 | 1 5 | 4 8 | 1 12 | 23 40 | 0 2 | 18 35 | 0 11 | 21 38 | 1 10 | 13 11 | 7 16 | 10 17 | 10 49 | 19 15 | | n.a. |
| M11 | 5 53 | 10 20 | 0s 1 | 6 51 | 2 58 | 18 37 | 0 35 | 23 28 | 1 5 | 4 3 | 1 12 | 23 40 | 0 2 | 18 35 | 0 11 | 21 38 | 1 10 | 13 11 | 7 16 | 10 17 | 10 48 | 19 15 | | n.a. |
| T 12 | 5 30 | 13 55 | 1 16 | 7 15 | 3 3 | 18 20 | 0 38 | 23 24 | 1 6 | 3 58 | 1 12 | 23 40 | 0 2 | 18 35 | 0 11 | 21 38 | 1 10 | 13 11 | 7 17 | 10 17 | 10 47 | 19 15 | | n.a. |
| W13 | 5 7 | 16 44 | 2 27 | 7 36 | 3 7 | 18 3 | 0 41 | 23 20 | 1 7 | 3 53 | 1 12 | 23 40 | 0 2 | 18 34 | 0 11 | 21 38 | 1 10 | 13 10 | 7 17 | 10 18 | 10 45 | 19 15 | | n.a. |
| T 14 | 4 43 | 18 32 | 3 30 | 7 55 | 3 11 | 17 45 | 0 44 | 23 15 | 1 8 | 3 47 | 1 12 | 23 40 | 0 2 | 18 34 | 0 11 | 21 38 | 1 10 | 13 10 | 7 17 | 10 18 | 10 44 | 19 15 | | n.a. |
| F 15 | 4 20 | 19 11 | 4 20 | 8 12 | 3 14 | 17 26 | 0 47 | 23 11 | 1 9 | 3 42 | 1 12 | 23 40 | 0 2 | 18 34 | 0 11 | 21 38 | 1 10 | 13 10 | 7 17 | 10 18 | 10 43 | 19 15 | | n.a. |
| S 16 | 3 56 | 18 38 | 4 54 | 8 27 | 3 16 | 17 7 | 0 50 | 23 6 | 1 9 | 3 37 | 1 12 | 23 40 | 0 2 | 18 34 | 0 11 | 21 38 | 1 10 | 13 10 | 7 17 | 10 18 | 10 42 | 19 15 | | n.a. |
| S 17 | 3 32 | 16 55 | 5 10 | 8 38 | 3 18 | 16 48 | 0 52 | 23 1 | 1 10 | 3 32 | 1 12 | 23 40 | 0 2 | 18 34 | 0 11 | 21 38 | 1 10 | 13 10 | 7 17 | 10 17 | 10 41 | 19 15 | | n.a. |
| M18 | 3 8 | 14 12 | 5 8 | 8 46 | 3 19 | 16 28 | 0 55 | 22 56 | 1 11 | 3 26 | 1 12 | 23 41 | 0 1 | 18 33 | 0 11 | 21 38 | 1 10 | 13 10 | 7 17 | 10 15 | 10 40 | 19 15 | | n.a. |
| T 19 | 2 45 | 10 41 | 4 47 | 8 50 | 3 18 | 16 7 | 0 57 | 22 51 | 1 12 | 3 21 | 1 12 | 23 41 | 0 1 | 18 33 | 0 11 | 21 38 | 1 10 | 13 9 | 7 17 | 10 13 | 10 38 | 19 14 | | n.a. |
| W20 | 2 21 | 6 37 | 4 10 | 8 51 | 3 17 | 15 46 | 1 0 | 22 46 | 1 13 | 3 16 | 1 12 | 23 41 | 0 1 | 18 33 | 0 11 | 21 38 | 1 10 | 13 9 | 7 17 | 10 12 | 10 37 | 19 14 | | n.a. |
| T 21 | 1 57 | 2 17 | 3 19 | 8 48 | 3 14 | 15 25 | 1 2 | 22 40 | 1 14 | 3 11 | 1 12 | 23 41 | 0 1 | 18 33 | 0 11 | 21 38 | 1 10 | 13 9 | 7 18 | 10 10 | 10 36 | 19 14 | | n.a. |
| F 22 | 1 33 | 2s 5 | 2 18 | 8 40 | 3 10 | 15 3 | 1 5 | 22 35 | 1 14 | 3 5 | 1 12 | 23 41 | 0 1 | 18 32 | 0 11 | 21 38 | 1 10 | 13 9 | 7 18 | 10 8 | 10 35 | 19 14 | | n.a. |
| S 23 | 1 9 | 6 16 | 1 10 | 8 27 | 3 4 | 14 41 | 1 7 | 22 29 | 1 15 | 3 0 | 1 12 | 23 41 | 0 1 | 18 32 | 0 11 | 21 38 | 1 10 | 13 9 | 7 18 | 10 8 | 10 34 | 19 14 | | n.a. |
| S 24 | 0 45 | 10 4 | 0 1 | 8 9 | 2 57 | 14 18 | 1 9 | 22 24 | 1 16 | 2 55 | 1 12 | 23 41 | 0 1 | 18 32 | 0 11 | 21 38 | 1 10 | 13 8 | 7 18 | 10 7 | 10 33 | 19 14 | | n.a. |
| M25 | 0 21 | 13 20 | 1n 7 | 7 46 | 2 48 | 13 55 | 1 11 | 22 18 | 1 17 | 2 50 | 1 12 | 23 41 | 0 1 | 18 32 | 0 11 | 21 38 | 1 10 | 13 8 | 7 18 | 10 8 | 10 32 | 19 14 | | n.a. |
| T 26 | 0s 4 | 15 56 | 2 10 | 7 18 | 2 37 | 13 31 | 1 13 | 22 12 | 1 18 | 2 44 | 1 12 | 23 41 | 0 1 | 18 31 | 0 11 | 21 38 | 1 10 | 13 8 | 7 18 | 10 8 | 10 30 | 19 14 | | n.a. |
| W27 | 0 28 | 17 48 | 3 7 | 6 45 | 2 24 | 13 7 | 1 15 | 22 6 | 1 19 | 2 39 | 1 12 | 23 41 | 0 1 | 18 31 | 0 11 | 21 38 | 1 10 | 13 8 | 7 18 | 10 9 | 10 29 | 19 14 | | n.a. |
| T 28 | 0 52 | 18 52 | 3 56 | 6 7 | 2 9 | 12 43 | 1 17 | 22 0 | 1 20 | 2 34 | 1 12 | 23 41 | 0 1 | 18 31 | 0 11 | 21 38 | 1 10 | 13 8 | 7 18 | 10 9 | 10 28 | 19 14 | | n.a. |
| F 29 | 1 16 | 19 5 | 4 34 | 5 24 | 1 53 | 12 18 | 1 19 | 21 54 | 1 21 | 2 29 | 1 12 | 23 42 | 0 1 | 18 30 | 0 11 | 21 38 | 1 10 | 13 7 | 7 18 | 10 10 | 10 27 | 19 14 | | n.a. |
| S 30 | 1s40 | 18s28 | 5n 0 | 4s39 | 1s35 | 11n53 | 1n21 | 21n47 | 1n21 | 2n23 | 1n12 | 23s42 | 0n 0 | 18n30 | 0s11 | 21n38 | 1s10 | 13n 7 | 7s18 | 10s10 | 10s26 | 19s14 | | n.a. |

Julian Day Number = 1695368.5, Delta T = 03h08m20s
Ecliptic obliquity = 23°42'05, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°02'57, Lahiri = - 4°55'56 Julian Calendar 1 Sept. 72 BCE == Greg. Calendar 30 Aug. 072 BCE


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# ASTRODIENST EPHEMERIS for the year 72 BCE
# geocentric

## OCTOBER 72 BCE (-71) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 0 27 40 | 5♎ 9'15 | 19♉59 | 6°R42 | 3♍55 | 0♌ 8 | 27♍ 0 | 29♐42 | 22°R46 | 14°R33 | 29°R28 | 26°R 1 | 26♎43 | 21♐34 | n.a. | S 1 |
| M 2 | 0 31 37 | 6° 9'24 | 2♒11 | 5♎24 | 5° 8 | 0°41 | 27°13 | 29°44 | 22♉45 | 14♊33 | 29♉27 | 26♎ 0 | 26°39 | 21°41 | n.a. | M 2 |
| T 3 | 0 35 34 | 7° 9'34 | 14°39 | 4° 8 | 6°22 | 1°15 | 27°26 | 29°47 | 22°43 | 14°32 | 29°27 | 25°57 | 26°36 | 21°48 | n.a. | T 3 |
| W 4 | 0 39 30 | 8° 9'46 | 27°25 | 2°56 | 7°36 | 1°48 | 27°39 | 29°50 | 22°42 | 14°32 | 29°26 | 25°55 | 26°33 | 21°55 | n.a. | W 4 |
| T 5 | 0 43 27 | 9° 9'59 | 10♓32 | 1°51 | 8°50 | 2°22 | 27°52 | 29°52 | 22°40 | 14°31 | 29°25 | 25°52 | 26°30 | 22° 1 | n.a. | T 5 |
| F 6 | 0 47 23 | 10°10'15 | 24° 0 | 0°53 | 10° 4 | 2°55 | 28° 5 | 29°55 | 22°39 | 14°31 | 29°25 | 25°50 | 26°27 | 22° 8 | n.a. | F 6 |
| S 7 | 0 51 20 | 11°10'32 | 7♈48 | 0° 5 | 11°18 | 3°28 | 28°18 | 29°58 | 22°37 | 14°30 | 29°24 | 25°48 | 26°24 | 22°15 | n.a. | S 7 |
| S 8 | 0 55 16 | 12°10'51 | 21°52 | 29♍28 | 12°32 | 4° 1 | 28°31 | 0♉ 1 | 22°35 | 14°30 | 29°23 | 25°D48 | 26°20 | 22°21 | n.a. | S 8 |
| M 9 | 0 59 13 | 13°11'11 | 6♉ 9 | 29° 3 | 13°46 | 4°34 | 28°44 | 0° 4 | 22°33 | 14°29 | 29°22 | 25°48 | 26°17 | 22°28 | n.a. | M 9 |
| T 10 | 1 3 9 | 14°11'34 | 20°34 | 28°49 | 15° 0 | 5° 6 | 28°57 | 0° 8 | 22°32 | 14°28 | 29°22 | 25°49 | 26°14 | 22°35 | n.a. | T 10 |
| W11 | 1 7 6 | 15°11'59 | 5♊ 1 | 28°D47 | 16°15 | 5°39 | 29°10 | 0°11 | 22°30 | 14°28 | 29°21 | 25°50 | 26°11 | 22°41 | n.a. | W11 |
| T 12 | 1 11 3 | 16°12'26 | 19°26 | 28°56 | 17°29 | 6°12 | 29°22 | 0°14 | 22°28 | 14°27 | 29°20 | 25°50 | 26° 8 | 22°48 | n.a. | T 12 |
| F 13 | 1 14 59 | 17°12'54 | 3♋46 | 29°15 | 18°43 | 6°44 | 29°35 | 0°18 | 22°26 | 14°26 | 29°19 | 25°51 | 26° 5 | 22°55 | n.a. | F 13 |
| S 14 | 1 18 56 | 18°13'25 | 17°57 | 29°44 | 19°58 | 7°16 | 29°48 | 0°22 | 22°24 | 14°26 | 29°18 | 25°R51 | 26° 1 | 23° 2 | n.a. | S 14 |
| S 15 | 1 22 52 | 19°13'58 | 1♌57 | 0♎21 | 21°12 | 7°48 | 0♎ 1 | 0°25 | 22°22 | 14°25 | 29°18 | 25°51 | 25°58 | 23° 8 | n.a. | S 15 |
| M16 | 1 26 49 | 20°14'32 | 15°45 | 1° 7 | 22°27 | 8°20 | 0°14 | 0°29 | 22°20 | 14°24 | 29°17 | 25°51 | 25°55 | 23°15 | n.a. | M16 |
| T 17 | 1 30 45 | 21°15'09 | 29°20 | 1°59 | 23°41 | 8°52 | 0°26 | 0°33 | 22°18 | 14°23 | 29°16 | 25°50 | 25°52 | 23°22 | n.a. | T 17 |
| W18 | 1 34 42 | 22°15'47 | 12♍43 | 2°58 | 24°56 | 9°24 | 0°39 | 0°37 | 22°16 | 14°22 | 29°15 | 25°50 | 25°49 | 23°28 | n.a. | W18 |
| T 19 | 1 38 38 | 23°16'27 | 25°52 | 4° 1 | 26°11 | 9°56 | 0°52 | 0°41 | 22°14 | 14°21 | 29°14 | 25°49 | 25°45 | 23°35 | n.a. | T 19 |
| F 20 | 1 42 35 | 24°17'09 | 8♎47 | 5°10 | 27°25 | 10°27 | 1° 4 | 0°45 | 22°11 | 14°20 | 29°13 | 25°49 | 25°42 | 23°42 | n.a. | F 20 |
| S 21 | 1 46 32 | 25°17'52 | 21°29 | 6°22 | 28°40 | 10°59 | 1°17 | 0°49 | 22° 9 | 14°19 | 29°12 | 25°49 | 25°39 | 23°48 | n.a. | S 21 |
| S 22 | 1 50 28 | 26°18'37 | 3♏59 | 7°38 | 29°55 | 11°30 | 1°29 | 0°53 | 22° 7 | 14°18 | 29°11 | 25°49 | 25°36 | 23°55 | n.a. | S 22 |
| M23 | 1 54 25 | 27°19'24 | 16°16 | 8°57 | 1♎10 | 12° 1 | 1°42 | 0°58 | 22° 5 | 14°17 | 29°10 | 25°49 | 25°33 | 24° 2 | n.a. | M23 |
| T 24 | 1 58 21 | 28°20'11 | 28°23 | 10°18 | 2°24 | 12°32 | 1°54 | 1° 2 | 22° 3 | 14°16 | 29° 9 | 25°49 | 25°30 | 24° 9 | n.a. | T 24 |
| W25 | 2 2 18 | 29°21'00 | 10♐21 | 11°41 | 3°39 | 13° 3 | 2° 7 | 1° 7 | 22° 0 | 14°15 | 29° 8 | 25°48 | 25°26 | 24°15 | n.a. | W25 |
| T 26 | 2 6 14 | 0♏21'50 | 22°14 | 13° 6 | 4°54 | 13°33 | 2°19 | 1°11 | 21°58 | 14°14 | 29° 7 | 25°48 | 25°23 | 24°22 | n.a. | T 26 |
| F 27 | 2 10 11 | 1°22'42 | 4♉ 4 | 14°33 | 6° 9 | 14° 4 | 2°31 | 1°16 | 21°56 | 14°13 | 29° 6 | 25°47 | 25°20 | 24°29 | n.a. | F 27 |
| S 28 | 2 14 7 | 2°23'34 | 15°56 | 16° 0 | 7°24 | 14°34 | 2°43 | 1°20 | 21°53 | 14°12 | 29° 5 | 25°46 | 25°17 | 24°35 | n.a. | S 28 |
| S 29 | 2 18 4 | 3°24'28 | 27°54 | 17°29 | 8°39 | 15° 4 | 2°56 | 1°25 | 21°51 | 14°11 | 29° 4 | 25°D46 | 25°14 | 24°42 | n.a. | S 29 |
| M30 | 2 22 1 | 4°25'22 | 10♒ 2 | 18°59 | 9°54 | 15°34 | 3° 8 | 1°30 | 21°48 | 14° 9 | 29° 3 | 25°46 | 25°10 | 24°49 | n.a. | M30 |
| T 31 | 2 25 57 | 5♏26'17 | 22♒26 | 20♎29 | 11♎ 9 | 16♌ 4 | 3♎20 | 1♉35 | 21♉46 | 14♊ 8 | 29♉ 2 | 25♎47 | 25♎ 7 | 24♐56 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| S 1 | 2s 4 | 17s 1 | 5n14 | 3s50 | 1s15 | 11n28 | 1n22 | 21n41 | 1n22 | 2n18 | 1n12 | 23s42 | 0n 0 | 18n30 | 0s11 | 21n38 | 1s10 | 13n 7 | 7s18 | 10s 9 | 10s25 | 19s14 | | | n.a. |
| M 2 | 2 28 | 14 48 | 5 14 | 3 1 | 0 55 | 11 2 | 1 24 | 21 35 | 1 23 | 2 13 | 1 12 | 23 42 | 0 0 | 18 29 | 0 11 | 21 38 | 1 11 | 13 7 | 7 19 | 10 9 | 10 23 | 19 14 | | | n.a. |
| T 3 | 2 52 | 11 51 | 4 59 | 2 11 | 0 35 | 10 36 | 1 26 | 21 28 | 1 24 | 2 8 | 1 12 | 23 42 | 0 0 | 18 29 | 0 11 | 21 38 | 1 11 | 13 7 | 7 19 | 10 8 | 10 22 | 19 13 | | | n.a. |
| W 4 | 3 16 | 8 17 | 4 29 | 1 24 | 0 14 | 10 9 | 1 27 | 21 21 | 1 25 | 2 2 | 1 12 | 23 42 | 0 0 | 18 28 | 0 11 | 21 38 | 1 11 | 13 6 | 7 19 | 10 7 | 10 21 | 19 13 | | | n.a. |
| T 5 | 3 40 | 4 14 | 3 45 | 0 39 | 0n 6 | 9 43 | 1 28 | 21 15 | 1 26 | 1 57 | 1 12 | 23 42 | 0 0 | 18 28 | 0 11 | 21 37 | 1 11 | 13 6 | 7 19 | 10 6 | 10 20 | 19 13 | | | n.a. |
| F 6 | 4 4 | 0n 9 | 2 47 | 0n 2 | 0 26 | 9 16 | 1 30 | 21 8 | 1 27 | 1 52 | 1 12 | 23 42 | 0s 0 | 18 28 | 0 11 | 21 37 | 1 11 | 13 6 | 7 19 | 10 5 | 10 19 | 19 13 | | | n.a. |
| S 7 | 4 28 | 4 37 | 1 38 | 0 38 | 0 44 | 8 48 | 1 31 | 21 1 | 1 28 | 1 47 | 1 12 | 23 42 | 0 0 | 18 27 | 0 11 | 21 37 | 1 11 | 13 6 | 7 19 | 10 5 | 10 18 | 19 13 | | | n.a. |
| S 8 | 4 52 | 8 57 | 0 22 | 1 9 | 1 1 | 8 21 | 1 32 | 20 54 | 1 29 | 1 42 | 1 12 | 23 42 | 0 0 | 18 27 | 0 11 | 21 37 | 1 11 | 13 5 | 7 19 | 10 4 | 10 16 | 19 13 | | | n.a. |
| M 9 | 5 16 | 12 49 | 0s57 | 1 33 | 1 16 | 7 53 | 1 33 | 20 47 | 1 30 | 1 37 | 1 12 | 23 42 | 0 0 | 18 26 | 0 11 | 21 37 | 1 11 | 13 5 | 7 19 | 10 5 | 10 15 | 19 13 | | | n.a. |
| T 10 | 5 39 | 15 57 | 2 13 | 1 51 | 1 30 | 7 25 | 1 34 | 20 40 | 1 31 | 1 31 | 1 12 | 23 42 | 0 0 | 18 26 | 0 11 | 21 37 | 1 11 | 13 5 | 7 19 | 10 5 | 10 14 | 19 13 | | | n.a. |
| W11 | 6 3 | 18 5 | 3 21 | 2 2 | 1 41 | 6 56 | 1 35 | 20 33 | 1 32 | 1 26 | 1 12 | 23 43 | 0 0 | 18 25 | 0 11 | 21 37 | 1 11 | 13 5 | 7 19 | 10 5 | 10 13 | 19 13 | | | n.a. |
| T 12 | 6 27 | 19 2 | 4 16 | 2 8 | 1 51 | 6 28 | 1 36 | 20 25 | 1 32 | 1 21 | 1 12 | 23 43 | 0 1 | 18 25 | 0 11 | 21 37 | 1 11 | 13 5 | 7 19 | 10 5 | 10 12 | 19 12 | | | n.a. |
| F 13 | 6 50 | 18 45 | 4 54 | 2 7 | 1 59 | 5 59 | 1 37 | 20 18 | 1 33 | 1 16 | 1 12 | 23 43 | 0 1 | 18 24 | 0 11 | 21 37 | 1 11 | 13 4 | 7 19 | 10 6 | 10 11 | 19 12 | | | n.a. |
| S 14 | 7 13 | 17 18 | 5 14 | 2 2 | 2 6 | 5 30 | 1 37 | 20 11 | 1 34 | 1 11 | 1 12 | 23 43 | 0 1 | 18 24 | 0 11 | 21 37 | 1 11 | 13 4 | 7 19 | 10 6 | 10 9 | 19 12 | | | n.a. |
| S 15 | 7 37 | 14 49 | 5 15 | 1 51 | 2 11 | 5 1 | 1 38 | 20 3 | 1 35 | 1 6 | 1 12 | 23 43 | 0 1 | 18 23 | 0 11 | 21 36 | 1 11 | 13 4 | 7 20 | 10 6 | 10 8 | 19 12 | | | n.a. |
| M16 | 8 0 | 11 32 | 4 58 | 1 36 | 2 15 | 4 32 | 1 38 | 19 56 | 1 36 | 1 1 | 1 12 | 23 43 | 0 1 | 18 23 | 0 11 | 21 36 | 1 11 | 13 4 | 7 20 | 10 6 | 10 7 | 19 12 | | | n.a. |
| T 17 | 8 23 | 7 42 | 4 25 | 1 17 | 2 17 | 4 2 | 1 39 | 19 48 | 1 37 | 0 56 | 1 12 | 23 43 | 0 1 | 18 22 | 0 11 | 21 36 | 1 11 | 13 3 | 7 20 | 10 5 | 10 6 | 19 12 | | | n.a. |
| W18 | 8 46 | 3 31 | 3 37 | 0 55 | 2 18 | 3 33 | 1 39 | 19 40 | 1 38 | 0 51 | 1 12 | 23 43 | 0 1 | 18 22 | 0 11 | 21 36 | 1 11 | 13 3 | 7 20 | 10 5 | 10 5 | 19 12 | | | n.a. |
| T 19 | 9 8 | 0s46 | 2 39 | 0 30 | 2 18 | 3 3 | 1 39 | 19 33 | 1 39 | 0 46 | 1 12 | 23 43 | 0 1 | 18 21 | 0 11 | 21 36 | 1 11 | 13 3 | 7 20 | 10 5 | 10 4 | 19 11 | | | n.a. |
| F 20 | 9 31 | 4 57 | 1 33 | 0 1 | 2 17 | 2 33 | 1 39 | 19 25 | 1 40 | 0 41 | 1 12 | 23 43 | 0 1 | 18 21 | 0 11 | 21 36 | 1 11 | 13 3 | 7 20 | 10 5 | 10 2 | 19 11 | | | n.a. |
| S 21 | 9 53 | 8 50 | 0 24 | 0s29 | 2 16 | 2 3 | 1 40 | 19 17 | 1 41 | 0 36 | 1 13 | 23 43 | 0 1 | 18 20 | 0 11 | 21 36 | 1 11 | 13 2 | 7 20 | 10 5 | 10 1 | 19 11 | | | n.a. |
| S 22 | 10 16 | 12 16 | 0n45 | 1 1 | 2 13 | 1 33 | 1 40 | 19 9 | 1 42 | 0 31 | 1 13 | 23 43 | 0 1 | 18 19 | 0 11 | 21 36 | 1 11 | 13 2 | 7 20 | 10 5 | 10 0 | 19 11 | | | n.a. |
| M23 | 10 38 | 15 7 | 1 51 | 1 36 | 2 10 | 1 3 | 1 40 | 19 2 | 1 43 | 0 26 | 1 13 | 23 43 | 0 1 | 18 19 | 0 11 | 21 35 | 1 11 | 13 2 | 7 20 | 10 5 | 9 59 | 19 11 | | | n.a. |
| T 24 | 11 0 | 17 14 | 2 51 | 2 11 | 2 7 | 0 33 | 1 39 | 18 54 | 1 44 | 0 21 | 1 13 | 23 43 | 0 1 | 18 18 | 0 11 | 21 35 | 1 11 | 13 2 | 7 20 | 10 5 | 9 58 | 19 11 | | | n.a. |
| W25 | 11 22 | 18 34 | 3 43 | 2 48 | 2 3 | 0 3 | 1 39 | 18 46 | 1 45 | 0 16 | 1 13 | 23 43 | 0 2 | 18 18 | 0 11 | 21 35 | 1 11 | 13 1 | 7 20 | 10 5 | 9 57 | 19 10 | | | n.a. |
| T 26 | 11 43 | 19 4 | 4 25 | 3 25 | 1 58 | 0s27 | 1 39 | 18 38 | 1 46 | 0 11 | 1 13 | 23 43 | 0 2 | 18 17 | 0 11 | 21 35 | 1 11 | 13 1 | 7 20 | 10 4 | 9 55 | 19 10 | | | n.a. |
| F 27 | 12 5 | 18 44 | 4 55 | 4 4 | 1 53 | 0 58 | 1 39 | 18 30 | 1 47 | 0 6 | 1 13 | 23 43 | 0 2 | 18 17 | 0 11 | 21 35 | 1 11 | 13 1 | 7 20 | 10 4 | 9 54 | 19 10 | | | n.a. |
| S 28 | 12 26 | 17 34 | 5 13 | 4 43 | 1 48 | 1 28 | 1 38 | 18 22 | 1 49 | 0 1 | 1 13 | 23 43 | 0 2 | 18 16 | 0 11 | 21 35 | 1 11 | 13 1 | 7 20 | 10 4 | 9 53 | 19 10 | | | n.a. |
| S 29 | 12 47 | 15 38 | 5 17 | 5 22 | 1 42 | 1 58 | 1 38 | 18 14 | 1 50 | 0s 4 | 1 13 | 23 43 | 0 2 | 18 15 | 0 11 | 21 34 | 1 11 | 13 0 | 7 20 | 10 4 | 9 52 | 19 10 | | | n.a. |
| M30 | 13 8 | 12 59 | 5 7 | 6 2 | 1 36 | 2 29 | 1 37 | 18 6 | 1 51 | 0 8 | 1 13 | 23 43 | 0 2 | 18 15 | 0 11 | 21 34 | 1 11 | 13 0 | 7 20 | 10 4 | 9 51 | 19 10 | | | n.a. |
| T 31 | 13s29 | 9s43 | 4n44 | 6s42 | 1n30 | 2s59 | 1n37 | 17n58 | 1n52 | 0s13 | 1n13 | 23s43 | 0s 2 | 18n14 | 0s11 | 21n34 | 1s11 | 13n 0 | 7s20 | 10s 4 | 9s50 | 19s 9 | | | n.a. |

Julian Day Number = 1695398.5, Delta T = 03h08m19s
Ecliptic obliquity = 23°42'06, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°02'52, Lahiri = - 4°55'52 Julian Calendar 1 Oct. 72 BCE == Greg. Calendar 29 Sept. 072 BCE

The year -71 astronomical counting style corresponds to year 072 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 72 BCE
# geocentric

## NOVEMBER 72 BCE (-71) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 2 29 54 | 6♏27'14 | 5♓ 9 | 22♎ 0 | 12♎24 | 16♌34 | 3♎32 | 1♑40 | 21°R44 | 14°R 7 | 29°R 1 | 25♎47 | 25♎ 4 | 25♐ 2 | n.a. | W 1 |
| T 2 | 2 33 50 | 7°28'11 | 18°15 | 23°31 | 13°39 | 17° 3 | 3°44 | 1°45 | 21♉41 | 14♊ 6 | 29♉ 0 | 25°48 | 25° 1 | 25° 9 | n.a. | T 2 |
| F 3 | 2 37 47 | 8°29'09 | 1♈47 | 25° 3 | 14°54 | 17°33 | 3°56 | 1°50 | 21°39 | 14° 4 | 28°59 | 25°50 | 24°58 | 25°16 | n.a. | F 3 |
| S 4 | 2 41 43 | 9°30'07 | 15°44 | 26°35 | 16° 9 | 18° 2 | 4° 8 | 1°55 | 21°36 | 14° 3 | 28°57 | 25°50 | 24°55 | 25°22 | n.a. | S 4 |
| S 5 | 2 45 40 | 10°31'07 | 0♉ 5 | 28° 7 | 17°24 | 18°31 | 4°20 | 2° 1 | 21°34 | 14° 2 | 28°56 | 25°R50 | 24°51 | 25°29 | n.a. | S 5 |
| M 6 | 2 49 36 | 11°32'08 | 14°44 | 29°40 | 18°39 | 19° 0 | 4°31 | 2° 6 | 21°31 | 14° 0 | 28°55 | 25°50 | 24°48 | 25°36 | n.a. | M 6 |
| T 7 | 2 53 33 | 12°33'10 | 29°37 | 1♏12 | 19°54 | 19°28 | 4°43 | 2°12 | 21°29 | 13°59 | 28°54 | 25°48 | 24°45 | 25°42 | n.a. | T 7 |
| W 8 | 2 57 30 | 13°34'13 | 14♊33 | 2°45 | 21°10 | 19°57 | 4°55 | 2°17 | 21°26 | 13°57 | 28°53 | 25°46 | 24°42 | 25°49 | n.a. | W 8 |
| T 9 | 3 1 26 | 14°35'17 | 29°25 | 4°18 | 22°25 | 20°25 | 5° 6 | 2°22 | 21°24 | 13°56 | 28°52 | 25°44 | 24°39 | 25°56 | n.a. | T 9 |
| F 10 | 3 5 23 | 15°36'22 | 14♋ 7 | 5°51 | 23°40 | 20°53 | 5°18 | 2°28 | 21°21 | 13°55 | 28°51 | 25°41 | 24°36 | 26° 3 | n.a. | F 10 |
| S 11 | 3 9 19 | 16°37'28 | 28°31 | 7°24 | 24°55 | 21°21 | 5°29 | 2°34 | 21°19 | 13°53 | 28°49 | 25°39 | 24°32 | 26° 9 | n.a. | S 11 |
| S 12 | 3 13 16 | 17°38'35 | 12♌35 | 8°57 | 26°11 | 21°49 | 5°40 | 2°39 | 21°16 | 13°52 | 28°48 | 25°D38 | 24°29 | 26°16 | n.a. | S 12 |
| M13 | 3 17 12 | 18°39'44 | 26°18 | 10°31 | 27°26 | 22°16 | 5°52 | 2°45 | 21°13 | 13°50 | 28°47 | 25°39 | 24°26 | 26°23 | n.a. | M13 |
| T 14 | 3 21 9 | 19°40'53 | 9♍41 | 12° 4 | 28°41 | 22°43 | 6° 3 | 2°51 | 21°11 | 13°49 | 28°46 | 25°40 | 24°23 | 26°29 | n.a. | T 14 |
| W15 | 3 25 5 | 20°42'03 | 22°45 | 13°38 | 29°56 | 23°10 | 6°14 | 2°57 | 21° 8 | 13°47 | 28°45 | 25°41 | 24°20 | 26°36 | n.a. | W15 |
| T 16 | 3 29 2 | 21°43'14 | 5♎33 | 15°11 | 1♏12 | 23°37 | 6°25 | 3° 3 | 21° 6 | 13°46 | 28°44 | 25°43 | 24°16 | 26°43 | n.a. | T 16 |
| F 17 | 3 32 59 | 22°44'26 | 18° 8 | 16°45 | 2°27 | 24° 4 | 6°36 | 3° 9 | 21° 3 | 13°44 | 28°42 | 25°44 | 24°13 | 26°50 | n.a. | F 17 |
| S 18 | 3 36 55 | 23°45'39 | 0♏31 | 18°19 | 3°42 | 24°30 | 6°47 | 3°15 | 21° 1 | 13°42 | 28°41 | 25°R44 | 24°10 | 26°56 | n.a. | S 18 |
| S 19 | 3 40 52 | 24°46'52 | 12°45 | 19°53 | 4°58 | 24°56 | 6°58 | 3°21 | 20°58 | 13°41 | 28°40 | 25°43 | 24° 7 | 27° 3 | n.a. | S 19 |
| M20 | 3 44 48 | 25°48'06 | 24°50 | 21°27 | 6°13 | 25°22 | 7° 8 | 3°27 | 20°56 | 13°39 | 28°39 | 25°40 | 24° 4 | 27°10 | n.a. | M20 |
| T 21 | 3 48 45 | 26°49'20 | 6♐50 | 23° 1 | 7°28 | 25°48 | 7°19 | 3°33 | 20°53 | 13°38 | 28°38 | 25°35 | 24° 1 | 27°16 | n.a. | T 21 |
| W22 | 3 52 41 | 27°50'35 | 18°44 | 24°35 | 8°44 | 26°13 | 7°30 | 3°39 | 20°50 | 13°36 | 28°36 | 25°30 | 23°57 | 27°23 | n.a. | W22 |
| T 23 | 3 56 38 | 28°51'50 | 0♑36 | 26°10 | 9°59 | 26°38 | 7°40 | 3°46 | 20°48 | 13°34 | 28°35 | 25°23 | 23°54 | 27°30 | n.a. | T 23 |
| F 24 | 4 0 34 | 29°53'06 | 12°26 | 27°45 | 11°14 | 27° 3 | 7°50 | 3°52 | 20°45 | 13°33 | 28°34 | 25°17 | 23°51 | 27°36 | n.a. | F 24 |
| S 25 | 4 4 31 | 0♐54'21 | 24°18 | 29°20 | 12°30 | 27°27 | 8° 1 | 3°58 | 20°43 | 13°31 | 28°33 | 25°11 | 23°48 | 27°43 | n.a. | S 25 |
| S 26 | 4 8 28 | 1°55'36 | 6♒15 | 0♐55 | 13°45 | 27°52 | 8°11 | 4° 5 | 20°40 | 13°29 | 28°32 | 25° 6 | 23°45 | 27°50 | n.a. | S 26 |
| M27 | 4 12 24 | 2°56'52 | 18°21 | 2°30 | 15° 0 | 28°16 | 8°21 | 4°11 | 20°38 | 13°28 | 28°31 | 25° 3 | 23°42 | 27°57 | n.a. | M27 |
| T 28 | 4 16 21 | 3°58'07 | 0♓39 | 4° 6 | 16°16 | 28°39 | 8°31 | 4°18 | 20°35 | 13°26 | 28°29 | 25°D 2 | 23°38 | 28° 3 | n.a. | T 28 |
| W29 | 4 20 17 | 4°59'22 | 13°15 | 5°42 | 17°31 | 29° 3 | 8°41 | 4°24 | 20°33 | 13°24 | 28°28 | 25° 2 | 23°35 | 28°10 | n.a. | W29 |
| T 30 | 4 24 14 | 6♐ 0'37 | 26♓13 | 7♐18 | 18♏47 | 29♌26 | 8♎50 | 4♑31 | 20♉31 | 13♊23 | 28♉27 | 25♎ 3 | 23♎32 | 28♐17 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 13s49 | 5s55 | 4n 5 | 7s22 | 1n24 | 3s29 | 1n36 | 17n50 | 1n53 | 0s18 | 1n13 | 23s44 | 0s 2 | 18n13 | 0s11 | 21n34 | 1s11 | 13n 0 | 7s20 | 10s 4 | 9s48 | 19s 9 | | n.a. |
| T 2 | 14 9 | 1 44 | 3 14 | 8 2 | 1 17 | 3 59 | 1 35 | 17 42 | 1 54 | 0 23 | 1 13 | 23 44 | 0 2 | 18 13 | 0 11 | 21 34 | 1 11 | 12 59 | 7 20 | 10 5 | 9 47 | 19 9 | | n.a. |
| F 3 | 14 29 | 2n41 | 2 9 | 8 42 | 1 11 | 4 29 | 1 34 | 17 34 | 1 55 | 0 27 | 1 14 | 23 44 | 0 2 | 18 12 | 0 11 | 21 34 | 1 11 | 12 59 | 7 20 | 10 5 | 9 46 | 19 9 | | n.a. |
| S 4 | 14 49 | 7 7 | 0 56 | 9 22 | 1 4 | 4 59 | 1 33 | 17 26 | 1 56 | 0 32 | 1 14 | 23 44 | 0 2 | 18 11 | 0 11 | 21 33 | 1 11 | 12 59 | 7 20 | 10 5 | 9 45 | 19 9 | | n.a. |
| S 5 | 15 8 | 11 15 | 0s23 | 10 2 | 0 57 | 5 29 | 1 32 | 17 18 | 1 57 | 0 37 | 1 14 | 23 44 | 0 2 | 18 11 | 0 11 | 21 33 | 1 11 | 12 59 | 7 20 | 10 5 | 9 44 | 19 8 | | n.a. |
| M 6 | 15 28 | 14 48 | 1 43 | 10 41 | 0 51 | 5 59 | 1 31 | 17 10 | 1 58 | 0 41 | 1 14 | 23 44 | 0 2 | 18 10 | 0 11 | 21 33 | 1 11 | 12 58 | 7 20 | 10 5 | 9 43 | 19 8 | | n.a. |
| T 7 | 15 46 | 17 25 | 2 56 | 11 20 | 0 44 | 6 29 | 1 30 | 17 2 | 2 0 | 0 46 | 1 14 | 23 43 | 0 3 | 18 10 | 0 11 | 21 33 | 1 11 | 12 58 | 7 20 | 10 5 | 9 41 | 19 8 | | n.a. |
| W 8 | 16 5 | 18 52 | 3 58 | 11 59 | 0 37 | 6 58 | 1 29 | 16 54 | 2 1 | 0 50 | 1 14 | 23 43 | 0 3 | 18 9 | 0 11 | 21 33 | 1 11 | 12 58 | 7 20 | 10 4 | 9 40 | 19 8 | | n.a. |
| T 9 | 16 23 | 18 59 | 4 43 | 12 37 | 0 30 | 7 28 | 1 28 | 16 46 | 2 2 | 0 55 | 1 14 | 23 43 | 0 3 | 18 8 | 0 11 | 21 33 | 1 11 | 12 58 | 7 20 | 10 3 | 9 39 | 19 7 | | n.a. |
| F 10 | 16 42 | 17 49 | 5 9 | 13 15 | 0 23 | 7 57 | 1 26 | 16 38 | 2 3 | 0 59 | 1 14 | 23 43 | 0 3 | 18 8 | 0 11 | 21 32 | 1 11 | 12 57 | 7 20 | 10 2 | 9 38 | 19 7 | | n.a. |
| S 11 | 16 59 | 15 33 | 5 15 | 13 53 | 0 16 | 8 26 | 1 25 | 16 30 | 2 4 | 1 4 | 1 14 | 23 43 | 0 3 | 18 7 | 0 11 | 21 32 | 1 11 | 12 57 | 7 20 | 10 1 | 9 37 | 19 7 | | n.a. |
| S 12 | 17 17 | 12 23 | 5 2 | 14 29 | 0 9 | 8 55 | 1 24 | 16 22 | 2 5 | 1 8 | 1 15 | 23 43 | 0 3 | 18 6 | 0 11 | 21 32 | 1 11 | 12 57 | 7 20 | 10 1 | 9 35 | 19 7 | | n.a. |
| M13 | 17 34 | 8 38 | 4 31 | 15 6 | 0 3 | 9 24 | 1 22 | 16 14 | 2 7 | 1 13 | 1 15 | 23 43 | 0 3 | 18 6 | 0 11 | 21 32 | 1 11 | 12 57 | 7 20 | 10 1 | 9 34 | 19 7 | | n.a. |
| T 14 | 17 51 | 4 31 | 3 47 | 15 41 | 0s 4 | 9 52 | 1 21 | 16 6 | 2 8 | 1 17 | 1 15 | 23 43 | 0 3 | 18 5 | 0 11 | 21 32 | 1 11 | 12 57 | 7 20 | 10 1 | 9 33 | 19 6 | | n.a. |
| W15 | 18 7 | 0 17 | 2 52 | 16 16 | 0 11 | 10 20 | 1 19 | 15 58 | 2 9 | 1 21 | 1 15 | 23 43 | 0 3 | 18 4 | 0 11 | 21 31 | 1 11 | 12 56 | 7 20 | 10 2 | 9 32 | 19 6 | | n.a. |
| T 16 | 18 24 | 3s53 | 1 49 | 16 51 | 0 17 | 10 48 | 1 18 | 15 50 | 2 10 | 1 26 | 1 15 | 23 43 | 0 3 | 18 4 | 0 11 | 21 31 | 1 11 | 12 56 | 7 20 | 10 3 | 9 31 | 19 6 | | n.a. |
| F 17 | 18 40 | 7 50 | 0 42 | 17 24 | 0 24 | 11 16 | 1 16 | 15 43 | 2 12 | 1 30 | 1 15 | 23 43 | 0 3 | 18 3 | 0 11 | 21 31 | 1 11 | 12 56 | 7 20 | 10 3 | 9 30 | 19 6 | | n.a. |
| S 18 | 18 55 | 11 22 | 0n26 | 17 57 | 0 30 | 11 44 | 1 14 | 15 35 | 2 13 | 1 34 | 1 15 | 23 43 | 0 3 | 18 2 | 0 11 | 21 31 | 1 11 | 12 56 | 7 20 | 10 3 | 9 28 | 19 5 | | n.a. |
| S 19 | 19 10 | 14 22 | 1 32 | 18 29 | 0 37 | 12 11 | 1 12 | 15 27 | 2 14 | 1 38 | 1 15 | 23 43 | 0 3 | 18 2 | 0 11 | 21 31 | 1 11 | 12 55 | 7 20 | 10 3 | 9 27 | 19 5 | | n.a. |
| M20 | 19 25 | 16 43 | 2 33 | 19 1 | 0 43 | 12 38 | 1 11 | 15 20 | 2 15 | 1 43 | 1 16 | 23 43 | 0 3 | 18 1 | 0 11 | 21 30 | 1 11 | 12 55 | 7 20 | 10 2 | 9 26 | 19 5 | | n.a. |
| T 21 | 19 40 | 18 18 | 3 26 | 19 31 | 0 49 | 13 4 | 1 9 | 15 12 | 2 17 | 1 47 | 1 16 | 23 43 | 0 4 | 18 0 | 0 11 | 21 30 | 1 11 | 12 55 | 7 20 | 10 0 | 9 25 | 19 5 | | n.a. |
| W22 | 19 54 | 19 4 | 4 10 | 20 1 | 0 55 | 13 31 | 1 7 | 15 4 | 2 18 | 1 51 | 1 16 | 23 43 | 0 4 | 18 0 | 0 10 | 21 30 | 1 11 | 12 55 | 7 20 | 9 58 | 9 24 | 19 4 | | n.a. |
| T 23 | 20 7 | 18 59 | 4 43 | 20 29 | 1 1 | 13 57 | 1 5 | 14 57 | 2 19 | 1 55 | 1 16 | 23 43 | 0 4 | 17 59 | 0 10 | 21 30 | 1 11 | 12 55 | 7 20 | 9 55 | 9 22 | 19 4 | | n.a. |
| F 24 | 20 21 | 18 5 | 5 3 | 20 57 | 1 6 | 14 22 | 1 3 | 14 50 | 2 21 | 1 59 | 1 16 | 23 42 | 0 4 | 17 58 | 0 10 | 21 30 | 1 11 | 12 54 | 7 20 | 9 53 | 9 21 | 19 4 | | n.a. |
| S 25 | 20 34 | 16 23 | 5 11 | 21 23 | 1 12 | 14 48 | 1 1 | 14 42 | 2 22 | 2 3 | 1 16 | 23 42 | 0 4 | 17 58 | 0 10 | 21 29 | 1 11 | 12 54 | 7 20 | 9 51 | 9 20 | 19 3 | | n.a. |
| S 26 | 20 46 | 13 59 | 5 5 | 21 49 | 1 17 | 15 12 | 0 59 | 14 35 | 2 23 | 2 7 | 1 16 | 23 42 | 0 4 | 17 57 | 0 10 | 21 29 | 1 11 | 12 54 | 7 20 | 9 49 | 9 19 | 19 3 | | n.a. |
| M27 | 20 59 | 10 58 | 4 46 | 22 14 | 1 22 | 15 37 | 0 57 | 14 28 | 2 25 | 2 11 | 1 17 | 23 42 | 0 4 | 17 56 | 0 10 | 21 29 | 1 11 | 12 54 | 7 20 | 9 48 | 9 18 | 19 3 | | n.a. |
| T 28 | 21 10 | 7 25 | 4 13 | 22 37 | 1 27 | 16 1 | 0 54 | 14 21 | 2 26 | 2 14 | 1 17 | 23 42 | 0 4 | 17 56 | 0 10 | 21 29 | 1 11 | 12 54 | 7 20 | 9 47 | 9 17 | 19 3 | | n.a. |
| W29 | 21 22 | 3 28 | 3 28 | 22 59 | 1 31 | 16 25 | 0 52 | 14 14 | 2 27 | 2 18 | 1 17 | 23 42 | 0 4 | 17 55 | 0 10 | 21 29 | 1 11 | 12 53 | 7 20 | 9 48 | 9 15 | 19 2 | | n.a. |
| T 30 | 21s33 | 0n47 | 2n30 | 23s21 | 1s36 | 16s48 | 0n50 | 14n 7 | 2n29 | 2s22 | 1n17 | 23s42 | 0s 4 | 17n54 | 0s10 | 21n28 | 1s11 | 12n53 | 7s19 | 9s48 | 9s14 | 19s 2 | | n.a. |

Julian Day Number = 1695429.5, Delta T = 03h08m18s
Ecliptic obliquity = 23°42'05, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°02'48, Lahiri = - 4°55'48 Julian Calendar 1 Nov. 72 BCE == Greg. Calendar 30 Oct. 072 BCE

The year -71 astronomical counting style corresponds to year 072 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 72 BCE
# geocentric

## DECEMBER 72 BCE (-71) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 4 28 10 | 7♐ 1'51 | 9♈37 | 8♐55 | 20♏ 2 | 29♌48 | 9♎ 0 | 4♑37 | 20°R28 | 13°R21 | 28°R26 | 25♎ 5 | 23♎29 | 28♐23 | n.a. | F 1 |
| S 2 | 4 32 7 | 8° 3'06 | 23°29 | 10°32 | 21°17 | 0♍11 | 9°10 | 4°44 | 20♉26 | 13♊19 | 28♉25 | 25°R 5 | 23°26 | 28°30 | n.a. | S 2 |
| S 3 | 4 36 3 | 9° 4'20 | 7♉50 | 12° 9 | 22°33 | 0°33 | 9°19 | 4°51 | 20°23 | 13°18 | 28°23 | 25° 5 | 23°22 | 28°37 | n.a. | S 3 |
| M 4 | 4 40 0 | 10° 5'34 | 22°36 | 13°47 | 23°48 | 0°55 | 9°28 | 4°57 | 20°21 | 13°16 | 28°22 | 25° 2 | 23°19 | 28°44 | n.a. | M 4 |
| T 5 | 4 43 57 | 11° 6'48 | 7♊42 | 15°24 | 25° 3 | 1°16 | 9°38 | 5° 4 | 20°19 | 13°14 | 28°21 | 24°57 | 23°16 | 28°50 | n.a. | T 5 |
| W 6 | 4 47 53 | 12° 8'01 | 22°58 | 17° 3 | 26°19 | 1°37 | 9°47 | 5°11 | 20°16 | 13°13 | 28°20 | 24°50 | 23°13 | 28°57 | n.a. | W 6 |
| T 7 | 4 51 50 | 13° 9'15 | 8♋14 | 18°41 | 27°34 | 1°58 | 9°56 | 5°18 | 20°14 | 13°11 | 28°19 | 24°43 | 23°10 | 29° 4 | n.a. | T 7 |
| F 8 | 4 55 46 | 14°10'28 | 23°19 | 20°20 | 28°49 | 2°19 | 10° 5 | 5°25 | 20°12 | 13° 9 | 28°18 | 24°35 | 23° 7 | 29°10 | n.a. | F 8 |
| S 9 | 4 59 43 | 15°11'42 | 8♌ 3 | 21°59 | 0♐ 5 | 2°39 | 10°13 | 5°31 | 20° 9 | 13° 7 | 28°17 | 24°29 | 23° 3 | 29°17 | n.a. | S 9 |
| S 10 | 5 3 39 | 16°12'55 | 22°22 | 23°38 | 1°20 | 2°59 | 10°22 | 5°38 | 20° 7 | 13° 6 | 28°15 | 24°24 | 23° 0 | 29°24 | n.a. | S 10 |
| M11 | 5 7 36 | 17°14'08 | 6♍13 | 25°18 | 2°35 | 3°18 | 10°30 | 5°45 | 20° 5 | 13° 4 | 28°14 | 24°21 | 22°57 | 29°31 | n.a. | M11 |
| T 12 | 5 11 33 | 18°15'21 | 19°36 | 26°58 | 3°51 | 3°37 | 10°39 | 5°52 | 20° 3 | 13° 2 | 28°13 | 24°D21 | 22°54 | 29°37 | n.a. | T 12 |
| W13 | 5 15 29 | 19°16'34 | 2♎35 | 28°38 | 5° 6 | 3°55 | 10°47 | 5°59 | 20° 1 | 13° 1 | 28°12 | 24°21 | 22°51 | 29°44 | n.a. | W13 |
| T 14 | 5 19 26 | 20°17'47 | 15°14 | 0♑18 | 6°21 | 4°13 | 10°55 | 6° 6 | 19°58 | 12°59 | 28°11 | 24°22 | 22°48 | 29°51 | n.a. | T 14 |
| F 15 | 5 23 22 | 21°18'59 | 27°36 | 1°59 | 7°37 | 4°31 | 11° 3 | 6°13 | 19°56 | 12°57 | 28°10 | 24°R23 | 22°44 | 29°57 | n.a. | F 15 |
| S 16 | 5 27 19 | 22°20'12 | 9♏47 | 3°39 | 8°52 | 4°48 | 11°11 | 6°20 | 19°54 | 12°56 | 28° 9 | 24°21 | 22°41 | 0♑ 4 | n.a. | S 16 |
| S 17 | 5 31 15 | 23°21'23 | 21°49 | 5°19 | 10° 7 | 5° 5 | 11°19 | 6°27 | 19°52 | 12°54 | 28° 8 | 24°17 | 22°38 | 0°11 | n.a. | S 17 |
| M18 | 5 35 12 | 24°22'35 | 3♐45 | 6°59 | 11°23 | 5°22 | 11°27 | 6°34 | 19°50 | 12°52 | 28° 7 | 24°11 | 22°35 | 0°18 | n.a. | M18 |
| T 19 | 5 39 8 | 25°23'46 | 15°38 | 8°38 | 12°38 | 5°38 | 11°34 | 6°41 | 19°48 | 12°51 | 28° 6 | 24° 1 | 22°32 | 0°24 | n.a. | T 19 |
| W20 | 5 43 5 | 26°24'56 | 27°29 | 10°17 | 13°53 | 5°53 | 11°41 | 6°48 | 19°46 | 12°49 | 28° 5 | 23°50 | 22°28 | 0°31 | n.a. | W20 |
| T 21 | 5 47 2 | 27°26'05 | 9♑21 | 11°55 | 15° 9 | 6° 8 | 11°49 | 6°56 | 19°45 | 12°47 | 28° 4 | 23°37 | 22°25 | 0°38 | n.a. | T 21 |
| F 22 | 5 50 58 | 28°27'14 | 21°14 | 13°31 | 16°24 | 6°22 | 11°56 | 7° 3 | 19°43 | 12°46 | 28° 3 | 23°24 | 22°22 | 0°44 | n.a. | F 22 |
| S 23 | 5 54 55 | 29°28'22 | 3♒ 9 | 15° 7 | 17°39 | 6°36 | 12° 3 | 7°10 | 19°41 | 12°44 | 28° 2 | 23°11 | 22°19 | 0°51 | n.a. | S 23 |
| S 24 | 5 58 51 | 0♑29'29 | 15°10 | 16°40 | 18°55 | 6°50 | 12° 9 | 7°17 | 19°39 | 12°42 | 28° 1 | 23° 1 | 22°16 | 0°58 | n.a. | S 24 |
| M25 | 6 2 48 | 1°30'34 | 27°18 | 18°11 | 20°10 | 7° 3 | 12°16 | 7°24 | 19°37 | 12°41 | 28° 0 | 22°53 | 22°13 | 1° 5 | n.a. | M25 |
| T 26 | 6 6 44 | 2°31'39 | 9♓36 | 19°40 | 21°25 | 7°15 | 12°22 | 7°31 | 19°36 | 12°39 | 27°59 | 22°48 | 22° 9 | 1°11 | n.a. | T 26 |
| W27 | 6 10 41 | 3°32'42 | 22° 8 | 21° 5 | 22°40 | 7°27 | 12°29 | 7°38 | 19°34 | 12°38 | 27°58 | 22°45 | 22° 6 | 1°18 | n.a. | W27 |
| T 28 | 6 14 37 | 4°33'44 | 5♈ 0 | 22°27 | 23°56 | 7°38 | 12°35 | 7°45 | 19°32 | 12°36 | 27°57 | 22°D45 | 22° 3 | 1°25 | n.a. | T 28 |
| F 29 | 6 18 34 | 5°34'44 | 18°13 | 23°44 | 25°11 | 7°49 | 12°41 | 7°53 | 19°31 | 12°35 | 27°56 | 22°R45 | 22° 0 | 1°31 | n.a. | F 29 |
| S 30 | 6 22 31 | 6°35'44 | 1♉53 | 24°56 | 26°26 | 7°59 | 12°47 | 8° 0 | 19°29 | 12°33 | 27°55 | 22°45 | 21°57 | 1°38 | n.a. | S 30 |
| S 31 | 6 26 27 | 7♑36'42 | 16♉ 2 | 26♑ 1 | 27♐41 | 8♏ 9 | 12♎53 | 8♑ 7 | 19♉28 | 12♊32 | 27♉54 | 22♎43 | 21♎54 | 1♑45 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 21 s43 | 5n 7 | 1n23 | 23 s40 | 1 s40 | 17 s11 | 0n48 | 14n 0 | 2n30 | 2 s26 | 1n17 | 23 s41 | 0 s 4 | 17n54 | 0 s10 | 21n28 | 1 s11 | 12n53 | 7 s19 | 9 s49 | 9 s13 | 19 s 2 | | n.a. |
| S 2 | 21 53 | 9 21 | 0 9 | 23 59 | 1 44 | 17 33 | 0 46 | 13 53 | 2 32 | 2 29 | 1 17 | 23 41 | 0 4 | 17 53 | 0 10 | 21 28 | 1 11 | 12 53 | 7 19 | 9 49 | 9 12 | 19 1 | | n.a. |
| S 3 | 22 3 | 13 12 | 1 s 8 | 24 16 | 1 48 | 17 55 | 0 43 | 13 47 | 2 33 | 2 33 | 1 17 | 23 41 | 0 4 | 17 52 | 0 10 | 21 28 | 1 11 | 12 53 | 7 19 | 9 49 | 9 11 | 19 1 | | n.a. |
| M 4 | 22 12 | 16 19 | 2 23 | 24 32 | 1 51 | 18 16 | 0 41 | 13 40 | 2 34 | 2 36 | 1 18 | 23 41 | 0 4 | 17 52 | 0 10 | 21 28 | 1 11 | 12 52 | 7 19 | 9 48 | 9 9 | 19 1 | | n.a. |
| T 5 | 22 21 | 18 23 | 3 29 | 24 47 | 1 54 | 18 37 | 0 39 | 13 34 | 2 36 | 2 40 | 1 18 | 23 41 | 0 5 | 17 51 | 0 10 | 21 27 | 1 11 | 12 52 | 7 19 | 9 46 | 9 8 | 19 1 | | n.a. |
| W 6 | 22 30 | 19 10 | 4 21 | 25 0 | 1 57 | 18 57 | 0 36 | 13 27 | 2 37 | 2 43 | 1 18 | 23 41 | 0 5 | 17 51 | 0 10 | 21 27 | 1 11 | 12 52 | 7 19 | 9 43 | 9 7 | 19 0 | | n.a. |
| T 7 | 22 38 | 18 32 | 4 55 | 25 12 | 1 59 | 19 17 | 0 34 | 13 21 | 2 39 | 2 47 | 1 18 | 23 40 | 0 5 | 17 50 | 0 10 | 21 27 | 1 11 | 12 52 | 7 19 | 9 40 | 9 6 | 19 0 | | n.a. |
| F 8 | 22 45 | 16 37 | 5 7 | 25 22 | 2 1 | 19 36 | 0 32 | 13 15 | 2 40 | 2 50 | 1 18 | 23 40 | 0 5 | 17 49 | 0 10 | 21 27 | 1 11 | 12 52 | 7 19 | 9 38 | 9 5 | 19 0 | | n.a. |
| S 9 | 22 52 | 13 39 | 4 59 | 25 30 | 2 3 | 19 55 | 0 29 | 13 9 | 2 42 | 2 53 | 1 18 | 23 40 | 0 5 | 17 49 | 0 10 | 21 27 | 1 11 | 12 52 | 7 19 | 9 35 | 9 3 | 18 59 | | n.a. |
| S 10 | 22 59 | 9 56 | 4 32 | 25 37 | 2 4 | 20 13 | 0 27 | 13 3 | 2 43 | 2 57 | 1 19 | 23 40 | 0 5 | 17 48 | 0 10 | 21 26 | 1 11 | 12 52 | 7 19 | 9 33 | 9 2 | 18 59 | | n.a. |
| M11 | 23 5 | 5 47 | 3 49 | 25 42 | 2 5 | 20 31 | 0 24 | 12 58 | 2 45 | 3 0 | 1 19 | 23 39 | 0 5 | 17 48 | 0 10 | 21 26 | 1 11 | 12 51 | 7 18 | 9 32 | 9 1 | 18 59 | | n.a. |
| T 12 | 23 11 | 1 28 | 2 56 | 25 46 | 2 6 | 20 48 | 0 22 | 12 52 | 2 46 | 3 3 | 1 19 | 23 39 | 0 5 | 17 47 | 0 10 | 21 26 | 1 11 | 12 51 | 7 18 | 9 32 | 9 0 | 18 58 | | n.a. |
| W13 | 23 16 | 2 s47 | 1 54 | 25 47 | 2 6 | 21 4 | 0 19 | 12 47 | 2 48 | 3 6 | 1 19 | 23 39 | 0 5 | 17 46 | 0 10 | 21 26 | 1 11 | 12 51 | 7 18 | 9 32 | 8 59 | 18 58 | | n.a. |
| T 14 | 23 21 | 6 49 | 0 49 | 25 47 | 2 5 | 21 20 | 0 17 | 12 42 | 2 50 | 3 9 | 1 19 | 23 39 | 0 5 | 17 46 | 0 10 | 21 26 | 1 11 | 12 51 | 7 18 | 9 33 | 8 58 | 18 58 | | n.a. |
| F 15 | 23 25 | 10 28 | 0n17 | 25 45 | 2 4 | 21 35 | 0 14 | 12 36 | 2 51 | 3 12 | 1 20 | 23 38 | 0 5 | 17 45 | 0 10 | 21 25 | 1 11 | 12 51 | 7 18 | 9 33 | 8 56 | 18 57 | | n.a. |
| S 16 | 23 29 | 13 37 | 1 22 | 25 41 | 2 2 | 21 49 | 0 12 | 12 32 | 2 53 | 3 15 | 1 20 | 23 38 | 0 5 | 17 45 | 0 10 | 21 25 | 1 11 | 12 51 | 7 18 | 9 32 | 8 55 | 18 57 | | n.a. |
| S 17 | 23 32 | 16 9 | 2 21 | 25 36 | 2 0 | 22 3 | 0 10 | 12 27 | 2 54 | 3 18 | 1 20 | 23 38 | 0 5 | 17 44 | 0 10 | 21 25 | 1 11 | 12 51 | 7 18 | 9 31 | 8 54 | 18 57 | | n.a. |
| M18 | 23 35 | 17 57 | 3 14 | 25 28 | 1 57 | 22 16 | 0 7 | 12 22 | 2 56 | 3 21 | 1 20 | 23 38 | 0 6 | 17 44 | 0 10 | 21 25 | 1 11 | 12 51 | 7 18 | 9 29 | 8 53 | 18 56 | | n.a. |
| T 19 | 23 37 | 18 58 | 3 58 | 25 19 | 1 54 | 22 29 | 0 5 | 12 18 | 2 58 | 3 24 | 1 20 | 23 37 | 0 6 | 17 43 | 0 10 | 21 25 | 1 11 | 12 50 | 7 18 | 9 25 | 8 52 | 18 56 | | n.a. |
| W20 | 23 39 | 19 9 | 4 31 | 25 7 | 1 50 | 22 41 | 0 2 | 12 13 | 2 59 | 3 26 | 1 21 | 23 37 | 0 6 | 17 43 | 0 10 | 21 24 | 1 11 | 12 50 | 7 17 | 9 21 | 8 50 | 18 56 | | n.a. |
| T 21 | 23 41 | 18 30 | 4 53 | 24 54 | 1 45 | 22 52 | 0 s 0 | 12 9 | 3 1 | 3 29 | 1 21 | 23 37 | 0 6 | 17 42 | 0 10 | 21 24 | 1 11 | 12 50 | 7 17 | 9 16 | 8 49 | 18 55 | | n.a. |
| F 22 | 23 42 | 17 2 | 5 2 | 24 39 | 1 39 | 23 3 | 0 3 | 12 5 | 3 3 | 3 32 | 1 21 | 23 36 | 0 6 | 17 42 | 0 10 | 21 24 | 1 11 | 12 50 | 7 17 | 9 11 | 8 48 | 18 55 | | n.a. |
| S 23 | 23 42 | 14 50 | 4 58 | 24 22 | 1 33 | 23 12 | 0 5 | 12 2 | 3 4 | 3 34 | 1 21 | 23 36 | 0 6 | 17 41 | 0 10 | 21 24 | 1 11 | 12 50 | 7 17 | 9 6 | 8 47 | 18 54 | | n.a. |
| S 24 | 23 42 | 12 0 | 4 40 | 24 4 | 1 26 | 23 22 | 0 8 | 11 58 | 3 6 | 3 37 | 1 21 | 23 36 | 0 6 | 17 41 | 0 10 | 21 24 | 1 11 | 12 50 | 7 17 | 9 2 | 8 46 | 18 54 | | n.a. |
| M25 | 23 42 | 8 38 | 4 10 | 23 44 | 1 18 | 23 30 | 0 10 | 11 55 | 3 8 | 3 39 | 1 22 | 23 36 | 0 6 | 17 40 | 0 10 | 21 24 | 1 11 | 12 50 | 7 17 | 9 0 | 8 44 | 18 54 | | n.a. |
| T 26 | 23 41 | 4 51 | 3 28 | 23 22 | 1 9 | 23 38 | 0 12 | 11 52 | 3 9 | 3 41 | 1 22 | 23 35 | 0 6 | 17 40 | 0 10 | 21 23 | 1 11 | 12 50 | 7 17 | 8 58 | 8 43 | 18 53 | | n.a. |
| W27 | 23 39 | 0 47 | 2 35 | 23 0 | 0 59 | 23 45 | 0 15 | 11 49 | 3 11 | 3 44 | 1 22 | 23 35 | 0 6 | 17 39 | 0 10 | 21 23 | 1 11 | 12 50 | 7 16 | 8 57 | 8 42 | 18 53 | | n.a. |
| T 28 | 23 37 | 3n25 | 1 33 | 22 36 | 0 48 | 23 51 | 0 17 | 11 46 | 3 13 | 3 46 | 1 22 | 23 34 | 0 6 | 17 39 | 0 10 | 21 23 | 1 11 | 12 50 | 7 16 | 8 56 | 8 41 | 18 53 | | n.a. |
| F 29 | 23 35 | 7 35 | 0 24 | 22 11 | 0 36 | 23 56 | 0 20 | 11 44 | 3 14 | 3 48 | 1 22 | 23 34 | 0 6 | 17 38 | 0 10 | 21 23 | 1 11 | 12 50 | 7 16 | 8 57 | 8 40 | 18 52 | | n.a. |
| S 30 | 23 32 | 11 30 | 0 s48 | 21 45 | 0 23 | 24 1 | 0 22 | 11 41 | 3 16 | 3 50 | 1 23 | 23 34 | 0 6 | 17 38 | 0 10 | 21 23 | 1 11 | 12 50 | 7 16 | 8 56 | 8 38 | 18 52 | | n.a. |
| S 31 | 23 s29 | 14n54 | 2 s 0 | 21 s20 | 0 s 9 | 24 s 5 | 0 s24 | 11n39 | 3n18 | 3 s52 | 1n23 | 23 s33 | 0 s 6 | 17n38 | 0 s10 | 21n22 | 1 s11 | 12n50 | 7 s16 | 8 s56 | 8 s37 | 18 s51 | | n.a. |

Julian Day Number = 1695459.5, Delta T = 03h08m17s
Ecliptic obliquity = 23°42'04, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°02'44, Lahiri = - 4°55'44 Julian Calendar 1 Dec. 72 BCE == Greg. Calendar 29 Nov. 072 BCE

The year -71 astronomical counting style corresponds to year 072 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 71 BCE
# geocentric

## JANUARY 71 BCE (-70) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 6 30 24 | 8♑37'38 | 0♊38 | 27♑ 1 | 28♐57 | 8♍18 | 12♎58 | 8♑14 | 19°R26 | 12°R30 | 27°R53 | 22°R39 | 21♎50 | 1♑52 | n.a. | M 1 |
| T 2 | 6 34 20 | 9°38'33 | 15°37 | 27°52 | 0♑12 | 8°27 | 13° 4 | 8°21 | 19♉25 | 12♊29 | 27♉52 | 22♎31 | 21°47 | 1°58 | n.a. | T 2 |
| W 3 | 6 38 17 | 10°39'27 | 0♋54 | 28°35 | 1°27 | 8°34 | 13° 9 | 8°29 | 19°24 | 12°27 | 27°51 | 22°22 | 21°44 | 2° 5 | n.a. | W 3 |
| T 4 | 6 42 13 | 11°40'20 | 16°16 | 29° 9 | 2°42 | 8°42 | 13°14 | 8°36 | 19°22 | 12°26 | 27°51 | 22°11 | 21°41 | 2°12 | n.a. | T 4 |
| F 5 | 6 46 10 | 12°41'12 | 1♌31 | 29°33 | 3°57 | 8°48 | 13°19 | 8°43 | 19°21 | 12°24 | 27°50 | 21°59 | 21°38 | 2°18 | n.a. | F 5 |
| S 6 | 6 50 6 | 13°42'02 | 16°30 | 29°47 | 5°12 | 8°54 | 13°24 | 8°50 | 19°20 | 12°23 | 27°49 | 21°49 | 21°34 | 2°25 | n.a. | S 6 |
| S 7 | 6 54 3 | 14°42'51 | 1♍ 3 | 29°R50 | 6°28 | 8°59 | 13°28 | 8°57 | 19°19 | 12°21 | 27°48 | 21°41 | 21°31 | 2°32 | n.a. | S 7 |
| M 8 | 6 58 0 | 15°43'39 | 15° 6 | 29°42 | 7°43 | 9° 4 | 13°33 | 9° 4 | 19°18 | 12°20 | 27°47 | 21°35 | 21°28 | 2°39 | n.a. | M 8 |
| T 9 | 7 1 56 | 16°44'25 | 28°39 | 29°23 | 8°58 | 9° 8 | 13°37 | 9°11 | 19°17 | 12°19 | 27°47 | 21°33 | 21°25 | 2°45 | n.a. | T 9 |
| W10 | 7 5 53 | 17°45'11 | 11♎43 | 28°53 | 10°13 | 9°11 | 13°41 | 9°19 | 19°16 | 12°17 | 27°46 | 21°32 | 21°22 | 2°52 | n.a. | W10 |
| T 11 | 7 9 49 | 18°45'56 | 24°23 | 28°14 | 11°28 | 9°14 | 13°45 | 9°26 | 19°15 | 12°16 | 27°45 | 21°32 | 21°19 | 2°59 | n.a. | T 11 |
| F 12 | 7 13 46 | 19°46'39 | 6♏44 | 27°25 | 12°43 | 9°15 | 13°48 | 9°33 | 19°14 | 12°15 | 27°45 | 21°31 | 21°15 | 3° 5 | n.a. | F 12 |
| S 13 | 7 17 42 | 20°47'21 | 18°50 | 26°29 | 13°58 | 9°16 | 13°52 | 9°40 | 19°13 | 12°14 | 27°44 | 21°29 | 21°12 | 3°12 | n.a. | S 13 |
| S 14 | 7 21 39 | 21°48'02 | 0♐47 | 25°27 | 15°13 | 9°R17 | 13°55 | 9°47 | 19°12 | 12°12 | 27°43 | 21°25 | 21° 9 | 3°19 | n.a. | S 14 |
| M15 | 7 25 35 | 22°48'41 | 12°38 | 24°21 | 16°29 | 9°16 | 13°59 | 9°54 | 19°11 | 12°11 | 27°43 | 21°17 | 21° 6 | 3°26 | n.a. | M15 |
| T 16 | 7 29 32 | 23°49'19 | 24°28 | 23°12 | 17°44 | 9°15 | 14° 2 | 10° 1 | 19°11 | 12°10 | 27°42 | 21° 6 | 21° 3 | 3°32 | n.a. | T 16 |
| W17 | 7 33 29 | 24°49'56 | 6♑19 | 22° 3 | 18°59 | 9°13 | 14° 4 | 10° 8 | 19°10 | 12° 9 | 27°41 | 20°53 | 21° 0 | 3°39 | n.a. | W17 |
| T 18 | 7 37 25 | 25°50'31 | 18°13 | 20°55 | 20°14 | 9°11 | 14° 7 | 10°15 | 19° 9 | 12° 8 | 27°41 | 20°38 | 20°56 | 3°46 | n.a. | T 18 |
| F 19 | 7 41 22 | 26°51'05 | 0♒11 | 19°49 | 21°29 | 9° 7 | 14°10 | 10°22 | 19° 9 | 12° 6 | 27°40 | 20°23 | 20°53 | 3°52 | n.a. | F 19 |
| S 20 | 7 45 18 | 27°51'36 | 12°14 | 18°48 | 22°44 | 9° 3 | 14°12 | 10°29 | 19° 8 | 12° 5 | 27°40 | 20° 9 | 20°50 | 3°59 | n.a. | S 20 |
| S 21 | 7 49 15 | 28°52'06 | 24°24 | 17°53 | 23°59 | 8°58 | 14°14 | 10°36 | 19° 8 | 12° 4 | 27°39 | 19°57 | 20°47 | 4° 6 | n.a. | S 21 |
| M22 | 7 53 11 | 29°52'34 | 6♓41 | 17° 3 | 25°14 | 8°52 | 14°16 | 10°43 | 19° 7 | 12° 3 | 27°39 | 19°48 | 20°44 | 4°13 | n.a. | M22 |
| T 23 | 7 57 8 | 0♒53'00 | 19° 8 | 16°21 | 26°29 | 8°45 | 14°18 | 10°50 | 19° 7 | 12° 2 | 27°38 | 19°41 | 20°40 | 4°19 | n.a. | T 23 |
| W24 | 8 1 4 | 1°53'24 | 1♈46 | 15°46 | 27°44 | 8°38 | 14°19 | 10°57 | 19° 7 | 12° 1 | 27°38 | 19°38 | 20°37 | 4°26 | n.a. | W24 |
| T 25 | 8 5 1 | 2°53'46 | 14°39 | 15°18 | 28°59 | 8°30 | 14°21 | 11° 4 | 19° 6 | 12° 0 | 27°38 | 19°D37 | 20°34 | 4°33 | n.a. | T 25 |
| F 26 | 8 8 58 | 3°54'06 | 27°50 | 14°57 | 0♒14 | 8°21 | 14°22 | 11°10 | 19° 6 | 11°59 | 27°37 | 19°R37 | 20°31 | 4°40 | n.a. | F 26 |
| S 27 | 8 12 54 | 4°54'24 | 11♉22 | 14°44 | 1°29 | 8°11 | 14°23 | 11°17 | 19° 6 | 11°58 | 27°37 | 19°37 | 20°28 | 4°46 | n.a. | S 27 |
| S 28 | 8 16 51 | 5°54'40 | 25°18 | 14°D38 | 2°43 | 8° 1 | 14°24 | 11°24 | 19° 6 | 11°58 | 27°36 | 19°35 | 20°25 | 4°53 | n.a. | S 28 |
| M29 | 8 20 47 | 6°54'54 | 9♊37 | 14°38 | 3°58 | 7°50 | 14°24 | 11°31 | 19°D 6 | 11°57 | 27°36 | 19°32 | 20°21 | 5° 0 | n.a. | M29 |
| T 30 | 8 24 44 | 7°55'05 | 24°19 | 14°45 | 5°13 | 7°38 | 14°25 | 11°37 | 19° 6 | 11°56 | 27°36 | 19°26 | 20°18 | 5° 6 | n.a. | T 30 |
| W31 | 8 28 40 | 8♒55'15 | 9♋17 | 14♑58 | 6♒28 | 7♍25 | 14♎25 | 11♑44 | 19♉ 6 | 11♊55 | 27♉35 | 19♎17 | 20♎15 | 5♑13 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| M 1 | 23s25 | 17n28 | 3s 6 | 20s54 | 0n 5 | 24s 8 | 0s27 | 11n38 | 3n20 | 3s54 | 1n23 | 23s33 | 0s 7 | 17n37 | 0s10 | 21n22 | 1s11 | 12n50 | 7s16 | 8s54 | 8s36 | 18s51 | | | n.a. |
| T 2 | 23 21 | 18 55 | 4 1 | 20 29 | 0 21 | 24 11 | 0 29 | 11 36 | 3 21 | 3 56 | 1 23 | 23 33 | 0 7 | 17 37 | 0 10 | 21 22 | 1 11 | 12 49 | 7 16 | 8 51 | 8 35 | 18 51 | | | n.a. |
| W 3 | 23 16 | 19 2 | 4 40 | 20 4 | 0 37 | 24 13 | 0 31 | 11 35 | 3 23 | 3 58 | 1 24 | 23 32 | 0 7 | 17 37 | 0 10 | 21 22 | 1 11 | 12 49 | 7 15 | 8 48 | 8 34 | 18 50 | | | n.a. |
| T 4 | 23 11 | 17 45 | 4 59 | 19 40 | 0 54 | 24 14 | 0 33 | 11 34 | 3 25 | 4 0 | 1 24 | 23 32 | 0 7 | 17 36 | 0 10 | 21 22 | 1 11 | 12 49 | 7 15 | 8 44 | 8 32 | 18 50 | | | n.a. |
| F 5 | 23 5 | 15 13 | 4 57 | 19 18 | 1 11 | 24 14 | 0 35 | 11 33 | 3 27 | 4 1 | 1 24 | 23 31 | 0 7 | 17 36 | 0 10 | 21 22 | 1 11 | 12 49 | 7 15 | 8 39 | 8 31 | 18 49 | | | n.a. |
| S 6 | 22 59 | 11 43 | 4 34 | 18 58 | 1 29 | 24 13 | 0 38 | 11 32 | 3 29 | 4 3 | 1 24 | 23 31 | 0 7 | 17 36 | 0 10 | 21 22 | 1 11 | 12 49 | 7 15 | 8 35 | 8 30 | 18 49 | | | n.a. |
| S 7 | 22 53 | 7 35 | 3 53 | 18 40 | 1 47 | 24 12 | 0 40 | 11 32 | 3 30 | 4 5 | 1 24 | 23 31 | 0 7 | 17 35 | 0 10 | 21 21 | 1 11 | 12 49 | 7 15 | 8 32 | 8 29 | 18 49 | | | n.a. |
| M 8 | 22 46 | 3 10 | 3 0 | 18 25 | 2 4 | 24 10 | 0 42 | 11 32 | 3 32 | 4 6 | 1 25 | 23 30 | 0 7 | 17 35 | 0 10 | 21 21 | 1 11 | 12 49 | 7 15 | 8 30 | 8 28 | 18 48 | | | n.a. |
| T 9 | 22 38 | 1s15 | 1 58 | 18 12 | 2 21 | 24 7 | 0 44 | 11 32 | 3 34 | 4 8 | 1 25 | 23 30 | 0 7 | 17 35 | 0 10 | 21 21 | 1 11 | 12 49 | 7 14 | 8 29 | 8 26 | 18 48 | | | n.a. |
| W10 | 22 31 | 5 29 | 0 52 | 18 2 | 2 38 | 24 4 | 0 46 | 11 32 | 3 36 | 4 9 | 1 25 | 23 29 | 0 7 | 17 34 | 0 10 | 21 21 | 1 11 | 12 49 | 7 14 | 8 29 | 8 25 | 18 47 | | | n.a. |
| T 11 | 22 22 | 9 19 | 0n15 | 17 55 | 2 53 | 24 0 | 0 48 | 11 33 | 3 37 | 4 10 | 1 25 | 23 29 | 0 7 | 17 34 | 0 10 | 21 21 | 1 10 | 12 49 | 7 14 | 8 29 | 8 24 | 18 47 | | | n.a. |
| F 12 | 22 14 | 12 40 | 1 19 | 17 51 | 3 7 | 23 55 | 0 50 | 11 34 | 3 39 | 4 12 | 1 26 | 23 29 | 0 7 | 17 34 | 0 10 | 21 21 | 1 10 | 12 49 | 7 14 | 8 29 | 8 23 | 18 47 | | | n.a. |
| S 13 | 22 4 | 15 23 | 2 19 | 17 50 | 3 19 | 23 49 | 0 52 | 11 35 | 3 41 | 4 13 | 1 26 | 23 28 | 0 7 | 17 34 | 0 10 | 21 21 | 1 10 | 12 50 | 7 14 | 8 28 | 8 22 | 18 46 | | | n.a. |
| S 14 | 21 55 | 17 25 | 3 11 | 17 51 | 3 29 | 23 42 | 0 54 | 11 36 | 3 43 | 4 14 | 1 26 | 23 28 | 0 8 | 17 34 | 0 10 | 21 20 | 1 10 | 12 50 | 7 14 | 8 26 | 8 20 | 18 46 | | | n.a. |
| M15 | 21 45 | 18 41 | 3 55 | 17 55 | 3 38 | 23 35 | 0 55 | 11 38 | 3 44 | 4 15 | 1 26 | 23 27 | 0 8 | 17 33 | 0 10 | 21 20 | 1 10 | 12 50 | 7 13 | 8 23 | 8 19 | 18 45 | | | n.a. |
| T 16 | 21 34 | 19 7 | 4 28 | 18 1 | 3 43 | 23 27 | 0 57 | 11 40 | 3 46 | 4 16 | 1 27 | 23 27 | 0 8 | 17 33 | 0 10 | 21 20 | 1 10 | 12 50 | 7 13 | 8 19 | 8 18 | 18 45 | | | n.a. |
| W17 | 21 24 | 18 43 | 4 50 | 18 9 | 3 47 | 23 19 | 0 59 | 11 43 | 3 48 | 4 17 | 1 27 | 23 26 | 0 8 | 17 33 | 0 10 | 21 20 | 1 10 | 12 50 | 7 13 | 8 14 | 8 17 | 18 44 | | | n.a. |
| T 18 | 21 13 | 17 30 | 4 59 | 18 18 | 3 48 | 23 9 | 1 1 | 11 45 | 3 50 | 4 18 | 1 27 | 23 26 | 0 8 | 17 33 | 0 10 | 21 20 | 1 10 | 12 50 | 7 13 | 8 9 | 8 16 | 18 44 | | | n.a. |
| F 19 | 21 1 | 15 32 | 4 55 | 18 29 | 3 47 | 22 59 | 1 2 | 11 48 | 3 51 | 4 18 | 1 27 | 23 25 | 0 8 | 17 33 | 0 10 | 21 20 | 1 10 | 12 50 | 7 13 | 8 3 | 8 14 | 18 43 | | | n.a. |
| S 20 | 20 49 | 12 52 | 4 38 | 18 40 | 3 44 | 22 49 | 1 4 | 11 51 | 3 53 | 4 19 | 1 28 | 23 25 | 0 8 | 17 33 | 0 10 | 21 20 | 1 10 | 12 50 | 7 12 | 7 58 | 8 13 | 18 43 | | | n.a. |
| S 21 | 20 37 | 9 38 | 4 8 | 18 53 | 3 39 | 22 37 | 1 5 | 11 55 | 3 55 | 4 20 | 1 28 | 23 24 | 0 8 | 17 33 | 0 10 | 21 20 | 1 10 | 12 50 | 7 12 | 7 53 | 8 12 | 18 43 | | | n.a. |
| M22 | 20 24 | 5 58 | 3 26 | 19 6 | 3 32 | 22 25 | 1 7 | 11 58 | 3 56 | 4 20 | 1 28 | 23 24 | 0 8 | 17 32 | 0 10 | 21 20 | 1 10 | 12 50 | 7 12 | 7 49 | 8 11 | 18 42 | | | n.a. |
| T 23 | 20 11 | 2 0 | 2 34 | 19 19 | 3 24 | 22 12 | 1 8 | 12 2 | 3 58 | 4 21 | 1 28 | 23 23 | 0 8 | 17 32 | 0 10 | 21 19 | 1 10 | 12 50 | 7 12 | 7 47 | 8 10 | 18 42 | | | n.a. |
| W24 | 19 57 | 2n 8 | 1 33 | 19 33 | 3 14 | 21 59 | 1 10 | 12 6 | 3 59 | 4 21 | 1 28 | 23 23 | 0 8 | 17 32 | 0 10 | 21 19 | 1 10 | 12 50 | 7 12 | 7 46 | 8 8 | 18 41 | | | n.a. |
| T 25 | 19 44 | 6 14 | 0 26 | 19 46 | 3 4 | 21 45 | 1 11 | 12 11 | 4 1 | 4 21 | 1 29 | 23 22 | 0 8 | 17 32 | 0 10 | 21 19 | 1 10 | 12 50 | 7 11 | 7 45 | 8 7 | 18 41 | | | n.a. |
| F 26 | 19 29 | 10 9 | 0s43 | 20 0 | 2 52 | 21 30 | 1 12 | 12 16 | 4 2 | 4 21 | 1 29 | 23 22 | 0 8 | 17 32 | 0 9 | 21 19 | 1 10 | 12 50 | 7 11 | 7 45 | 8 6 | 18 40 | | | n.a. |
| S 27 | 19 15 | 13 37 | 1 53 | 20 13 | 2 41 | 21 15 | 1 13 | 12 21 | 4 4 | 4 22 | 1 29 | 23 21 | 0 9 | 17 32 | 0 9 | 21 19 | 1 10 | 12 51 | 7 11 | 7 45 | 8 5 | 18 40 | | | n.a. |
| S 28 | 19 0 | 16 26 | 2 57 | 20 26 | 2 29 | 20 58 | 1 15 | 12 26 | 4 5 | 4 22 | 1 29 | 23 21 | 0 9 | 17 32 | 0 9 | 21 19 | 1 10 | 12 51 | 7 11 | 7 45 | 8 3 | 18 39 | | | n.a. |
| M29 | 18 45 | 18 18 | 3 52 | 20 38 | 2 16 | 20 42 | 1 16 | 12 31 | 4 6 | 4 22 | 1 30 | 23 20 | 0 9 | 17 32 | 0 9 | 21 19 | 1 10 | 12 51 | 7 11 | 7 43 | 8 2 | 18 39 | | | n.a. |
| T 30 | 18 29 | 19 1 | 4 34 | 20 50 | 2 3 | 20 25 | 1 17 | 12 37 | 4 8 | 4 22 | 1 30 | 23 20 | 0 9 | 17 32 | 0 9 | 21 19 | 1 10 | 12 51 | 7 10 | 7 41 | 8 1 | 18 38 | | | n.a. |
| W31 | 18s13 | 18n26 | 4s57 | 21s 1 | 1n51 | 20s 7 | 1s18 | 12n43 | 4n 9 | 4s22 | 1n30 | 23s19 | 0s 9 | 17n32 | 0s 9 | 21n19 | 1s10 | 12n51 | 7s10 | 7s38 | 8s 0 | 18s38 | | | n.a. |

Julian Day Number = 1695490.5, Delta T = 03h08m16s
Ecliptic obliquity = 23°42'04, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°02'40, Lahiri = - 4°55'39 Julian Calendar 1 Jan. 71 BCE == Greg. Calendar 30 Dec. 072 BCE

The year -70 astronomical counting style corresponds to year 071 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 71 BCE
# geocentric

## FEBRUARY 71 BCE (-70) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 32 37 | 9♒55'22 | 24♋25 | 15♉17 | 7♒43 | 7°R11 | 14°R25 | 11♉51 | 19♉ 6 | 11°R54 | 27°R35 | 19°R 7 | 20♎12 | 5♉20 | n.a. | T 1 |
| F 2 | 8 36 33 | 10°55'27 | 9♌31 | 15°41 | 8°58 | 6♍57 | 14♎25 | 11°57 | 19° 6 | 11♊54 | 27♉35 | 18♎56 | 20° 9 | 5°27 | n.a. | F 2 |
| S 3 | 8 40 30 | 11°55'30 | 24°27 | 16°10 | 10°13 | 6°42 | 14°24 | 12° 4 | 19° 7 | 11°53 | 27°35 | 18°47 | 20° 5 | 5°33 | n.a. | S 3 |
| S 4 | 8 44 27 | 12°55'31 | 9♍ 2 | 16°44 | 11°27 | 6°27 | 14°24 | 12°10 | 19° 7 | 11°52 | 27°35 | 18°39 | 20° 2 | 5°40 | n.a. | S 4 |
| M 5 | 8 48 23 | 13°55'31 | 23°10 | 17°22 | 12°42 | 6°11 | 14°23 | 12°17 | 19° 7 | 11°52 | 27°34 | 18°34 | 19°59 | 5°47 | n.a. | M 5 |
| T 6 | 8 52 20 | 14°55'28 | 6♎50 | 18° 4 | 13°57 | 5°54 | 14°22 | 12°23 | 19° 8 | 11°51 | 27°34 | 18°31 | 19°56 | 5°53 | n.a. | T 6 |
| W 7 | 8 56 16 | 15°55'24 | 20° 2 | 18°50 | 15°12 | 5°36 | 14°21 | 12°30 | 19° 8 | 11°51 | 27°34 | 18°D31 | 19°53 | 6° 0 | n.a. | W 7 |
| T 8 | 9 0 13 | 16°55'18 | 2♏48 | 19°39 | 16°26 | 5°18 | 14°20 | 12°36 | 19° 9 | 11°50 | 27°34 | 18°31 | 19°50 | 6° 7 | n.a. | T 8 |
| F 9 | 9 4 9 | 17°55'10 | 15°14 | 20°32 | 17°41 | 4°59 | 14°19 | 12°42 | 19° 9 | 11°50 | 27°34 | 18°R32 | 19°46 | 6°14 | n.a. | F 9 |
| S 10 | 9 8 6 | 18°55'01 | 27°22 | 21°28 | 18°56 | 4°40 | 14°17 | 12°49 | 19°10 | 11°49 | 27°34 | 18°31 | 19°43 | 6°20 | n.a. | S 10 |
| S 11 | 9 12 2 | 19°54'50 | 9♐20 | 22°26 | 20°11 | 4°20 | 14°15 | 12°55 | 19°10 | 11°49 | 27°34 | 18°29 | 19°40 | 6°27 | n.a. | S 11 |
| M12 | 9 15 59 | 20°54'37 | 21°12 | 23°28 | 21°25 | 3°59 | 14°13 | 13° 1 | 19°11 | 11°48 | 27°D34 | 18°25 | 19°37 | 6°34 | n.a. | M12 |
| T 13 | 9 19 56 | 21°54'22 | 3♑ 2 | 24°31 | 22°40 | 3°38 | 14°11 | 13° 7 | 19°12 | 11°48 | 27°34 | 18°18 | 19°34 | 6°40 | n.a. | T 13 |
| W14 | 9 23 52 | 22°54'05 | 14°54 | 25°37 | 23°55 | 3°17 | 14° 8 | 13°13 | 19°13 | 11°47 | 27°34 | 18° 9 | 19°31 | 6°47 | n.a. | W14 |
| T 15 | 9 27 49 | 23°53'46 | 26°52 | 26°46 | 25° 9 | 2°55 | 14° 6 | 13°19 | 19°14 | 11°47 | 27°34 | 17°59 | 19°27 | 6°54 | n.a. | T 15 |
| F 16 | 9 31 45 | 24°53'26 | 8♒56 | 27°56 | 26°24 | 2°33 | 14° 3 | 13°25 | 19°14 | 11°47 | 27°34 | 17°48 | 19°24 | 7° 1 | n.a. | F 16 |
| S 17 | 9 35 42 | 25°53'03 | 21° 9 | 29° 9 | 27°39 | 2°11 | 14° 0 | 13°31 | 19°15 | 11°47 | 27°34 | 17°38 | 19°21 | 7° 7 | n.a. | S 17 |
| S 18 | 9 39 38 | 26°52'38 | 3♓32 | 0♒23 | 28°53 | 1°48 | 13°57 | 13°37 | 19°16 | 11°46 | 27°34 | 17°30 | 19°18 | 7°14 | n.a. | S 18 |
| M19 | 9 43 35 | 27°52'11 | 16° 4 | 1°40 | 0♓ 8 | 1°25 | 13°54 | 13°43 | 19°18 | 11°46 | 27°34 | 17°23 | 19°15 | 7°21 | n.a. | M19 |
| T 20 | 9 47 31 | 28°51'41 | 28°48 | 2°58 | 1°22 | 1° 2 | 13°50 | 13°49 | 19°19 | 11°46 | 27°34 | 17°19 | 19°11 | 7°28 | n.a. | T 20 |
| W21 | 9 51 28 | 29°51'10 | 11♈42 | 4°18 | 2°37 | 0°39 | 13°47 | 13°54 | 19°20 | 11°46 | 27°35 | 17°D17 | 19° 8 | 7°34 | n.a. | W21 |
| T 22 | 9 55 24 | 0♓50'36 | 24°49 | 5°39 | 3°51 | 0°16 | 13°43 | 14° 0 | 19°21 | 11°46 | 27°35 | 17°17 | 19° 5 | 7°41 | n.a. | T 22 |
| F 23 | 9 59 21 | 1°49'59 | 8♉10 | 7° 3 | 5° 6 | 29♌53 | 13°39 | 14° 6 | 19°22 | 11°D46 | 27°35 | 17°19 | 19° 2 | 7°48 | n.a. | F 23 |
| S 24 | 10 3 18 | 2°49'21 | 21°46 | 8°27 | 6°20 | 29°29 | 13°35 | 14°11 | 19°24 | 11°46 | 27°35 | 17°20 | 18°59 | 7°54 | n.a. | S 24 |
| S 25 | 10 7 14 | 3°48'40 | 5♊38 | 9°54 | 7°35 | 29° 6 | 13°31 | 14°17 | 19°25 | 11°46 | 27°35 | 17°R20 | 18°56 | 8° 1 | n.a. | S 25 |
| M26 | 10 11 11 | 4°47'56 | 19°46 | 11°21 | 8°49 | 28°43 | 13°26 | 14°22 | 19°26 | 11°46 | 27°36 | 17°19 | 18°52 | 8° 8 | n.a. | M26 |
| T 27 | 10 15 7 | 5°47'10 | 4♋10 | 12°51 | 10° 4 | 28°20 | 13°22 | 14°28 | 19°28 | 11°46 | 27°36 | 17°16 | 18°49 | 8°15 | n.a. | T 27 |
| W28 | 10 19 4 | 6♓46'22 | 18♋45 | 14♒22 | 11♓18 | 27♌57 | 13♎17 | 14♉33 | 19♉29 | 11♊46 | 27♉36 | 17♎12 | 18♎46 | 8♉21 | n.a. | W28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 17s57 | 16n32 | 5s 1 | 21s12 | 1n38 | 19s48 | 1s19 | 12n49 | 4n10 | 4s21 | 1n30 | 23s19 | 0s 9 | 17n32 | 0s 9 | 21n19 | 1s10 | 12n51 | 7s10 | 7s34 | 7s59 | 18s37 | | n.a. |
| F 2 | 17 41 | 13 31 | 4 43 | 21 21 | 1 25 | 19 29 | 1 20 | 12 56 | 4 11 | 4 21 | 1 31 | 23 18 | 0 9 | 17 32 | 0 9 | 21 19 | 1 10 | 12 51 | 7 10 | 7 30 | 7 57 | 18 37 | | n.a. |
| S 3 | 17 24 | 9 39 | 4 6 | 21 30 | 1 13 | 19 10 | 1 20 | 13 2 | 4 12 | 4 21 | 1 31 | 23 18 | 0 9 | 17 32 | 0 9 | 21 19 | 1 10 | 12 51 | 7 10 | 7 26 | 7 56 | 18 36 | | n.a. |
| S 4 | 17 7 | 5 17 | 3 14 | 21 38 | 1 1 | 18 50 | 1 21 | 13 9 | 4 13 | 4 20 | 1 31 | 23 17 | 0 9 | 17 33 | 0 9 | 21 19 | 1 10 | 12 52 | 7 9 | 7 23 | 7 55 | 18 36 | | n.a. |
| M 5 | 16 50 | 0 45 | 2 11 | 21 45 | 0 49 | 18 29 | 1 22 | 13 16 | 4 14 | 4 20 | 1 31 | 23 17 | 0 9 | 17 33 | 0 9 | 21 19 | 1 9 | 12 52 | 7 9 | 7 21 | 7 54 | 18 35 | | n.a. |
| T 6 | 16 32 | 3s41 | 1 2 | 21 51 | 0 37 | 18 8 | 1 23 | 13 23 | 4 15 | 4 19 | 1 32 | 23 16 | 0 9 | 17 33 | 0 9 | 21 19 | 1 9 | 12 52 | 7 9 | 7 20 | 7 53 | 18 35 | | n.a. |
| W 7 | 16 14 | 7 47 | 0n 8 | 21 56 | 0 26 | 17 47 | 1 23 | 13 30 | 4 15 | 4 19 | 1 32 | 23 16 | 0 9 | 17 33 | 0 9 | 21 19 | 1 9 | 12 52 | 7 9 | 7 20 | 7 51 | 18 34 | | n.a. |
| T 8 | 15 56 | 11 24 | 1 16 | 22 0 | 0 14 | 17 24 | 1 24 | 13 38 | 4 16 | 4 18 | 1 32 | 23 15 | 0 10 | 17 33 | 0 9 | 21 19 | 1 9 | 12 52 | 7 9 | 7 20 | 7 50 | 18 34 | | n.a. |
| F 9 | 15 38 | 14 23 | 2 18 | 22 3 | 0 4 | 17 2 | 1 24 | 13 45 | 4 17 | 4 17 | 1 32 | 23 15 | 0 10 | 17 33 | 0 9 | 21 18 | 1 9 | 12 53 | 7 8 | 7 20 | 7 49 | 18 33 | | n.a. |
| S 10 | 15 19 | 16 40 | 3 12 | 22 5 | 0s 7 | 16 39 | 1 24 | 13 53 | 4 17 | 4 16 | 1 32 | 23 14 | 0 10 | 17 33 | 0 9 | 21 18 | 1 9 | 12 53 | 7 8 | 7 20 | 7 48 | 18 33 | | n.a. |
| S 11 | 15 0 | 18 11 | 3 57 | 22 5 | 0 17 | 16 15 | 1 25 | 14 1 | 4 18 | 4 15 | 1 33 | 23 14 | 0 10 | 17 34 | 0 9 | 21 18 | 1 9 | 12 53 | 7 8 | 7 19 | 7 47 | 18 32 | | n.a. |
| M12 | 14 41 | 18 53 | 4 32 | 22 4 | 0 27 | 15 51 | 1 25 | 14 9 | 4 18 | 4 14 | 1 33 | 23 13 | 0 10 | 17 34 | 0 9 | 21 18 | 1 9 | 12 53 | 7 8 | 7 18 | 7 45 | 18 32 | | n.a. |
| T 13 | 14 22 | 18 46 | 4 54 | 22 2 | 0 36 | 15 27 | 1 25 | 14 17 | 4 18 | 4 13 | 1 33 | 23 13 | 0 10 | 17 34 | 0 9 | 21 18 | 1 9 | 12 53 | 7 8 | 7 15 | 7 44 | 18 31 | | n.a. |
| W14 | 14 2 | 17 49 | 5 4 | 21 59 | 0 45 | 15 2 | 1 25 | 14 25 | 4 18 | 4 12 | 1 33 | 23 12 | 0 10 | 17 34 | 0 9 | 21 18 | 1 9 | 12 53 | 7 7 | 7 12 | 7 43 | 18 31 | | n.a. |
| T 15 | 13 42 | 16 5 | 5 1 | 21 54 | 0 54 | 14 37 | 1 25 | 14 33 | 4 18 | 4 11 | 1 34 | 23 12 | 0 10 | 17 35 | 0 9 | 21 18 | 1 9 | 12 54 | 7 7 | 7 8 | 7 42 | 18 30 | | n.a. |
| F 16 | 13 22 | 13 38 | 4 45 | 21 49 | 1 2 | 14 11 | 1 25 | 14 41 | 4 18 | 4 10 | 1 34 | 23 11 | 0 10 | 17 35 | 0 9 | 21 18 | 1 9 | 12 54 | 7 7 | 7 4 | 7 40 | 18 30 | | n.a. |
| S 17 | 13 2 | 10 35 | 4 15 | 21 41 | 1 10 | 13 45 | 1 25 | 14 49 | 4 18 | 4 8 | 1 34 | 23 11 | 0 10 | 17 35 | 0 9 | 21 18 | 1 9 | 12 54 | 7 7 | 7 0 | 7 39 | 18 29 | | n.a. |
| S 18 | 12 41 | 7 1 | 3 33 | 21 32 | 1 17 | 13 19 | 1 25 | 14 57 | 4 18 | 4 7 | 1 34 | 23 10 | 0 10 | 17 35 | 0 9 | 21 19 | 1 9 | 12 54 | 7 6 | 6 56 | 7 38 | 18 29 | | n.a. |
| M19 | 12 21 | 3 6 | 2 40 | 21 22 | 1 24 | 12 52 | 1 25 | 15 5 | 4 17 | 4 6 | 1 34 | 23 10 | 0 10 | 17 36 | 0 9 | 21 19 | 1 9 | 12 55 | 7 6 | 6 54 | 7 37 | 18 28 | | n.a. |
| T 20 | 12 0 | 1n 1 | 1 38 | 21 11 | 1 31 | 12 25 | 1 25 | 15 13 | 4 17 | 4 4 | 1 35 | 23 9 | 0 11 | 17 36 | 0 9 | 21 19 | 1 9 | 12 55 | 7 6 | 6 52 | 7 36 | 18 27 | | n.a. |
| W21 | 11 39 | 5 8 | 0 30 | 20 58 | 1 37 | 11 58 | 1 25 | 15 21 | 4 16 | 4 3 | 1 35 | 23 9 | 0 11 | 17 36 | 0 9 | 21 19 | 1 9 | 12 55 | 7 6 | 6 52 | 7 34 | 18 27 | | n.a. |
| T 22 | 11 18 | 9 5 | 0s41 | 20 43 | 1 42 | 11 30 | 1 24 | 15 28 | 4 15 | 4 1 | 1 35 | 23 8 | 0 11 | 17 37 | 0 9 | 21 19 | 1 9 | 12 55 | 7 6 | 6 52 | 7 33 | 18 26 | | n.a. |
| F 23 | 10 56 | 12 39 | 1 50 | 20 27 | 1 48 | 11 2 | 1 24 | 15 36 | 4 14 | 3 59 | 1 35 | 23 8 | 0 11 | 17 37 | 0 9 | 21 19 | 1 9 | 12 56 | 7 5 | 6 52 | 7 32 | 18 26 | | n.a. |
| S 24 | 10 35 | 15 35 | 2 55 | 20 10 | 1 53 | 10 34 | 1 23 | 15 43 | 4 14 | 3 57 | 1 35 | 23 7 | 0 11 | 17 37 | 0 9 | 21 19 | 1 9 | 12 56 | 7 5 | 6 53 | 7 31 | 18 25 | | n.a. |
| S 25 | 10 13 | 17 41 | 3 52 | 19 51 | 1 57 | 10 6 | 1 23 | 15 51 | 4 12 | 3 56 | 1 35 | 23 7 | 0 11 | 17 38 | 0 9 | 21 19 | 1 9 | 12 56 | 7 5 | 6 53 | 7 29 | 18 25 | | n.a. |
| M26 | 9 51 | 18 44 | 4 35 | 19 30 | 2 1 | 9 37 | 1 22 | 15 58 | 4 11 | 3 54 | 1 36 | 23 6 | 0 11 | 17 38 | 0 9 | 21 19 | 1 8 | 12 56 | 7 5 | 6 52 | 7 28 | 18 24 | | n.a. |
| T 27 | 9 29 | 18 37 | 5 2 | 19 8 | 2 5 | 9 8 | 1 21 | 16 5 | 4 10 | 3 52 | 1 36 | 23 6 | 0 11 | 17 39 | 0 9 | 21 19 | 1 8 | 12 57 | 7 5 | 6 51 | 7 27 | 18 24 | | n.a. |
| W28 | 9s 7 | 17n16 | 5s 9 | 18s44 | 2s 8 | 8s39 | 1s21 | 16n12 | 4n 9 | 3s50 | 1n36 | 23s 5 | 0s11 | 17n39 | 0s 9 | 21n19 | 1s 8 | 12n57 | 7s 4 | 6s50 | 7s26 | 18s23 | | n.a. |

Julian Day Number = 1695521.5, Delta T = 03h08m15s
Ecliptic obliquity = 23°42'04, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°02'36, Lahiri = - 4°55'35 Julian Calendar 1 Feb. 71 BCE == Greg. Calendar 30 Jan. 071 BCE


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# ASTRODIENST EPHEMERIS for the year 71 BCE
# geocentric

## MARCH 71 BCE (-70) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 10 23 0 | 7♓45'31 | 3♌27 | 15♒54 | 12♓33 | 27°R34 | 13°R12 | 14♉38 | 19♉31 | 11♊46 | 27♉37 | 17°R 6 | 18♎43 | 8♉28 | n.a. | T 1 |
| F 2 | 10 26 57 | 8°44'38 | 18° 9 | 17°28 | 13°47 | 27♌12 | 13♎ 7 | 14°43 | 19°33 | 11°47 | 27°37 | 17♎ 0 | 18°40 | 8°35 | n.a. | F 2 |
| S 3 | 10 30 53 | 9°43'43 | 2♍43 | 19° 3 | 15° 1 | 26°50 | 13° 2 | 14°48 | 19°34 | 11°47 | 27°38 | 16°55 | 18°37 | 8°41 | n.a. | S 3 |
| S 4 | 10 34 50 | 10°42'45 | 17° 3 | 20°40 | 16°16 | 26°28 | 12°56 | 14°53 | 19°36 | 11°47 | 27°38 | 16°50 | 18°33 | 8°48 | n.a. | S 4 |
| M 5 | 10 38 47 | 11°41'45 | 1♎ 3 | 22°18 | 17°30 | 26° 6 | 12°51 | 14°58 | 19°38 | 11°47 | 27°38 | 16°48 | 18°30 | 8°55 | n.a. | M 5 |
| T 6 | 10 42 43 | 12°40'43 | 14°40 | 23°57 | 18°44 | 25°46 | 12°45 | 15° 3 | 19°40 | 11°48 | 27°39 | 16°D47 | 18°27 | 9° 2 | n.a. | T 6 |
| W 7 | 10 46 40 | 13°39'40 | 27°53 | 25°38 | 19°59 | 25°25 | 12°40 | 15° 8 | 19°41 | 11°48 | 27°39 | 16°47 | 18°24 | 9° 8 | n.a. | W 7 |
| T 8 | 10 50 36 | 14°38'34 | 10♏42 | 27°21 | 21°13 | 25° 5 | 12°34 | 15°13 | 19°43 | 11°49 | 27°40 | 16°49 | 18°21 | 9°15 | n.a. | T 8 |
| F 9 | 10 54 33 | 15°37'27 | 23°12 | 29° 5 | 22°27 | 24°45 | 12°28 | 15°18 | 19°45 | 11°49 | 27°40 | 16°50 | 18°17 | 9°22 | n.a. | F 9 |
| S 10 | 10 58 29 | 16°36'17 | 5♐25 | 0♓50 | 23°41 | 24°27 | 12°22 | 15°22 | 19°47 | 11°50 | 27°41 | 16°52 | 18°14 | 9°28 | n.a. | S 10 |
| S 11 | 11 2 26 | 17°35'06 | 17°26 | 2°37 | 24°55 | 24° 8 | 12°15 | 15°27 | 19°49 | 11°50 | 27°42 | 16°R52 | 18°11 | 9°35 | n.a. | S 11 |
| M12 | 11 6 22 | 18°33'54 | 29°20 | 4°25 | 26°10 | 23°50 | 12° 9 | 15°31 | 19°51 | 11°51 | 27°42 | 16°52 | 18° 8 | 9°42 | n.a. | M12 |
| T 13 | 11 10 19 | 19°32'39 | 11♑13 | 6°15 | 27°24 | 23°33 | 12° 2 | 15°36 | 19°53 | 11°51 | 27°43 | 16°50 | 18° 5 | 9°49 | n.a. | T 13 |
| W14 | 11 14 15 | 20°31'22 | 23° 7 | 8° 6 | 28°38 | 23°17 | 11°56 | 15°40 | 19°55 | 11°52 | 27°43 | 16°47 | 18° 2 | 9°55 | n.a. | W14 |
| T 15 | 11 18 12 | 21°30'04 | 5♒ 7 | 9°59 | 29°52 | 23° 1 | 11°49 | 15°44 | 19°58 | 11°52 | 27°44 | 16°43 | 17°58 | 10° 2 | n.a. | T 15 |
| F 16 | 11 22 9 | 22°28'44 | 17°17 | 11°54 | 1♈ 6 | 22°46 | 11°42 | 15°49 | 20° 0 | 11°53 | 27°45 | 16°39 | 17°55 | 10° 9 | n.a. | F 16 |
| S 17 | 11 26 5 | 23°27'21 | 29°39 | 13°50 | 2°20 | 22°31 | 11°36 | 15°53 | 20° 2 | 11°54 | 27°45 | 16°35 | 17°52 | 10°16 | n.a. | S 17 |
| S 18 | 11 30 2 | 24°25'57 | 12♓15 | 15°47 | 3°34 | 22°18 | 11°29 | 15°57 | 20° 4 | 11°54 | 27°46 | 16°32 | 17°49 | 10°22 | n.a. | S 18 |
| M19 | 11 33 58 | 25°24'31 | 25° 4 | 17°46 | 4°48 | 22° 5 | 11°22 | 16° 1 | 20° 7 | 11°55 | 27°47 | 16°30 | 17°46 | 10°29 | n.a. | M19 |
| T 20 | 11 37 55 | 26°23'03 | 8♈ 8 | 19°46 | 6° 2 | 21°53 | 11°14 | 16° 5 | 20° 9 | 11°56 | 27°48 | 16°28 | 17°42 | 10°36 | n.a. | T 20 |
| W21 | 11 41 51 | 27°21'33 | 21°26 | 21°48 | 7°17 | 21°41 | 11° 7 | 16° 8 | 20°12 | 11°57 | 27°48 | 16°D28 | 17°39 | 10°42 | n.a. | W21 |
| T 22 | 11 45 48 | 28°20'01 | 4♉56 | 23°51 | 8°31 | 21°31 | 11° 0 | 16°12 | 20°14 | 11°58 | 27°49 | 16°29 | 17°36 | 10°49 | n.a. | T 22 |
| F 23 | 11 49 44 | 29°18'26 | 18°38 | 25°55 | 9°44 | 21°21 | 10°53 | 16°16 | 20°17 | 11°59 | 27°50 | 16°30 | 17°33 | 10°56 | n.a. | F 23 |
| S 24 | 11 53 41 | 0♈16'50 | 2♊30 | 28° 1 | 10°58 | 21°12 | 10°45 | 16°19 | 20°19 | 11°59 | 27°51 | 16°31 | 17°30 | 11° 3 | n.a. | S 24 |
| S 25 | 11 57 38 | 1°15'11 | 16°32 | 0♈ 7 | 12°12 | 21° 4 | 10°38 | 16°23 | 20°22 | 12° 0 | 27°52 | 16°32 | 17°27 | 11° 9 | n.a. | S 25 |
| M26 | 12 1 34 | 2°13'31 | 0♋41 | 2°14 | 13°26 | 20°56 | 10°30 | 16°26 | 20°24 | 12° 1 | 27°53 | 16°R33 | 17°23 | 11°16 | n.a. | M26 |
| T 27 | 12 5 31 | 3°11'48 | 14°55 | 4°22 | 14°40 | 20°50 | 10°23 | 16°29 | 20°27 | 12° 2 | 27°54 | 16°32 | 17°20 | 11°23 | n.a. | T 27 |
| W28 | 12 9 27 | 4°10'02 | 29°12 | 6°31 | 15°54 | 20°44 | 10°15 | 16°33 | 20°30 | 12° 3 | 27°54 | 16°32 | 17°17 | 11°29 | n.a. | W28 |
| T 29 | 12 13 24 | 5° 8'15 | 13♌30 | 8°39 | 17° 8 | 20°39 | 10° 8 | 16°36 | 20°32 | 12° 5 | 27°55 | 16°30 | 17°14 | 11°36 | n.a. | T 29 |
| F 30 | 12 17 20 | 6° 6'25 | 27°43 | 10°48 | 18°22 | 20°35 | 10° 0 | 16°39 | 20°35 | 12° 6 | 27°56 | 16°29 | 17°11 | 11°43 | n.a. | F 30 |
| S 31 | 12 21 17 | 7♈ 4'34 | 11♍49 | 12♈56 | 19♈35 | 20♌32 | 9♎53 | 16♉42 | 20♉38 | 12♊ 7 | 27♉57 | 16♎28 | 17♎ 8 | 11♉50 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| T 1 | 8s45 | 14n47 | 4s57 | 18s19 | 2s11 | 8s 9 | 1s20 | 16n19 | 4n 7 | 3s48 | 1n36 | 23s 5 | 0s11 | 17n40 | 0s 9 | 21n19 | 1s 8 | 12n57 | 7s 4 | 6s47 | 7s25 | 18s22 | | | n.a. |
| F 2 | 8 23 | 11 21 | 4 25 | 17 53 | 2 13 | 7 40 | 1 19 | 16 25 | 4 6 | 3 45 | 1 36 | 23 4 | 0 11 | 17 40 | 0 9 | 21 19 | 1 8 | 12 58 | 7 4 | 6 45 | 7 23 | 18 22 | | | n.a. |
| S 3 | 8 0 | 7 15 | 3 37 | 17 24 | 2 15 | 7 10 | 1 18 | 16 31 | 4 4 | 3 43 | 1 36 | 23 4 | 0 12 | 17 41 | 0 9 | 21 19 | 1 8 | 12 58 | 7 4 | 6 43 | 7 22 | 18 21 | | | n.a. |
| S 4 | 7 38 | 2 48 | 2 35 | 16 55 | 2 16 | 6 40 | 1 17 | 16 37 | 4 2 | 3 41 | 1 37 | 23 3 | 0 12 | 17 41 | 0 9 | 21 19 | 1 8 | 12 58 | 7 4 | 6 41 | 7 21 | 18 21 | | | n.a. |
| M 5 | 7 15 | 1s43 | 1 25 | 16 23 | 2 17 | 6 9 | 1 16 | 16 43 | 4 1 | 3 39 | 1 37 | 23 3 | 0 12 | 17 41 | 0 9 | 21 19 | 1 8 | 12 58 | 7 3 | 6 40 | 7 20 | 18 20 | | | n.a. |
| T 6 | 6 52 | 6 1 | 0 12 | 15 50 | 2 17 | 5 39 | 1 15 | 16 49 | 3 59 | 3 36 | 1 37 | 23 2 | 0 12 | 17 42 | 0 9 | 21 19 | 1 8 | 12 59 | 7 3 | 6 40 | 7 19 | 18 20 | | | n.a. |
| W 7 | 6 30 | 9 54 | 1n 0 | 15 16 | 2 17 | 5 8 | 1 14 | 16 54 | 3 57 | 3 34 | 1 37 | 23 2 | 0 12 | 17 43 | 0 9 | 21 20 | 1 8 | 12 59 | 7 3 | 6 40 | 7 17 | 18 19 | | | n.a. |
| T 8 | 6 7 | 13 11 | 2 7 | 14 40 | 2 17 | 4 38 | 1 13 | 16 59 | 3 55 | 3 32 | 1 37 | 23 1 | 0 12 | 17 43 | 0 9 | 21 20 | 1 8 | 12 59 | 7 3 | 6 41 | 7 16 | 18 18 | | | n.a. |
| F 9 | 5 44 | 15 47 | 3 6 | 14 2 | 2 15 | 4 7 | 1 11 | 17 3 | 3 53 | 3 29 | 1 37 | 23 1 | 0 12 | 17 44 | 0 9 | 21 20 | 1 8 | 13 0 | 7 3 | 6 41 | 7 15 | 18 18 | | | n.a. |
| S 10 | 5 21 | 17 35 | 3 55 | 13 23 | 2 14 | 3 36 | 1 10 | 17 8 | 3 50 | 3 27 | 1 37 | 23 0 | 0 12 | 17 44 | 0 9 | 21 20 | 1 8 | 13 0 | 7 2 | 6 42 | 7 14 | 18 17 | | | n.a. |
| S 11 | 4 57 | 18 34 | 4 33 | 12 42 | 2 12 | 3 5 | 1 9 | 17 12 | 3 48 | 3 24 | 1 37 | 23 0 | 0 12 | 17 45 | 0 9 | 21 20 | 1 8 | 13 0 | 7 2 | 6 42 | 7 12 | 18 17 | | | n.a. |
| M12 | 4 34 | 18 43 | 4 59 | 12 0 | 2 9 | 2 34 | 1 7 | 17 16 | 3 46 | 3 21 | 1 38 | 23 0 | 0 12 | 17 45 | 0 9 | 21 20 | 1 8 | 13 1 | 7 2 | 6 42 | 7 11 | 18 16 | | | n.a. |
| T 13 | 4 11 | 18 3 | 5 12 | 11 16 | 2 6 | 2 3 | 1 6 | 17 20 | 3 44 | 3 19 | 1 38 | 22 59 | 0 13 | 17 46 | 0 9 | 21 20 | 1 8 | 13 1 | 7 2 | 6 41 | 7 10 | 18 15 | | | n.a. |
| W14 | 3 48 | 16 35 | 5 11 | 10 30 | 2 2 | 1 32 | 1 4 | 17 23 | 3 41 | 3 16 | 1 38 | 22 59 | 0 13 | 17 46 | 0 9 | 21 20 | 1 8 | 13 1 | 7 2 | 6 40 | 7 9 | 18 15 | | | n.a. |
| T 15 | 3 24 | 14 23 | 4 57 | 9 43 | 1 58 | 1 0 | 1 3 | 17 26 | 3 39 | 3 13 | 1 38 | 22 58 | 0 13 | 17 47 | 0 9 | 21 21 | 1 8 | 13 2 | 7 1 | 6 38 | 7 8 | 18 14 | | | n.a. |
| F 16 | 3 1 | 11 32 | 4 30 | 8 55 | 1 53 | 0 29 | 1 1 | 17 29 | 3 36 | 3 11 | 1 38 | 22 58 | 0 13 | 17 48 | 0 9 | 21 21 | 1 8 | 13 2 | 7 1 | 6 37 | 7 6 | 18 13 | | | n.a. |
| S 17 | 2 38 | 8 8 | 3 50 | 8 5 | 1 48 | 0n 2 | 0 59 | 17 31 | 3 34 | 3 8 | 1 38 | 22 58 | 0 13 | 17 48 | 0 9 | 21 21 | 1 8 | 13 2 | 7 1 | 6 35 | 7 5 | 18 13 | | | n.a. |
| S 18 | 2 14 | 4 19 | 2 57 | 7 14 | 1 42 | 0 33 | 0 58 | 17 33 | 3 31 | 3 5 | 1 38 | 22 57 | 0 13 | 17 49 | 0 9 | 21 21 | 1 7 | 13 3 | 7 1 | 6 34 | 7 4 | 18 12 | | | n.a. |
| M19 | 1 51 | 0 13 | 1 55 | 6 21 | 1 36 | 1 5 | 0 56 | 17 35 | 3 28 | 3 2 | 1 38 | 22 57 | 0 13 | 17 50 | 0 9 | 21 21 | 1 7 | 13 3 | 7 1 | 6 33 | 7 3 | 18 12 | | | n.a. |
| T 20 | 1 27 | 3n58 | 0 46 | 5 27 | 1 29 | 1 36 | 0 54 | 17 36 | 3 26 | 2 59 | 1 38 | 22 56 | 0 13 | 17 50 | 0 9 | 21 21 | 1 7 | 13 3 | 7 0 | 6 33 | 7 1 | 18 11 | | | n.a. |
| W21 | 1 4 | 8 1 | 0s27 | 4 32 | 1 21 | 2 7 | 0 52 | 17 38 | 3 23 | 2 57 | 1 38 | 22 56 | 0 13 | 17 51 | 0 9 | 21 21 | 1 7 | 13 4 | 7 0 | 6 33 | 7 0 | 18 10 | | | n.a. |
| T 22 | 0 40 | 11 44 | 1 40 | 3 35 | 1 13 | 2 39 | 0 50 | 17 39 | 3 20 | 2 54 | 1 38 | 22 56 | 0 13 | 17 52 | 0 9 | 21 22 | 1 7 | 13 4 | 7 0 | 6 33 | 6 59 | 18 10 | | | n.a. |
| F 23 | 0 17 | 14 52 | 2 48 | 2 38 | 1 5 | 3 10 | 0 48 | 17 39 | 3 18 | 2 51 | 1 38 | 22 55 | 0 14 | 17 52 | 0 9 | 21 22 | 1 7 | 13 4 | 7 0 | 6 33 | 6 58 | 18 9 | | | n.a. |
| S 24 | 0n 7 | 17 10 | 3 48 | 1 40 | 0 56 | 3 41 | 0 46 | 17 40 | 3 15 | 2 48 | 1 38 | 22 55 | 0 14 | 17 53 | 0 9 | 21 22 | 1 7 | 13 5 | 7 0 | 6 34 | 6 56 | 18 8 | | | n.a. |
| S 25 | 0 30 | 18 28 | 4 34 | 0 40 | 0 47 | 4 12 | 0 44 | 17 40 | 3 12 | 2 45 | 1 38 | 22 55 | 0 14 | 17 54 | 0 9 | 21 22 | 1 7 | 13 5 | 7 0 | 6 34 | 6 55 | 18 8 | | | n.a. |
| M26 | 0 54 | 18 38 | 5 4 | 0n20 | 0 37 | 4 43 | 0 42 | 17 40 | 3 9 | 2 42 | 1 38 | 22 54 | 0 14 | 17 54 | 0 9 | 21 22 | 1 7 | 13 5 | 6 59 | 6 34 | 6 54 | 18 7 | | | n.a. |
| T 27 | 1 17 | 17 37 | 5 16 | 1 20 | 0 27 | 5 14 | 0 40 | 17 39 | 3 7 | 2 39 | 1 38 | 22 54 | 0 14 | 17 55 | 0 9 | 21 22 | 1 7 | 13 6 | 6 59 | 6 34 | 6 53 | 18 7 | | | n.a. |
| W28 | 1 40 | 15 31 | 5 8 | 2 21 | 0 17 | 5 44 | 0 38 | 17 38 | 3 4 | 2 36 | 1 38 | 22 54 | 0 14 | 17 56 | 0 8 | 21 23 | 1 7 | 13 6 | 6 59 | 6 34 | 6 52 | 18 6 | | | n.a. |
| T 29 | 2 4 | 12 27 | 4 42 | 3 22 | 0 7 | 6 15 | 0 36 | 17 37 | 3 1 | 2 33 | 1 38 | 22 54 | 0 14 | 17 57 | 0 8 | 21 23 | 1 7 | 13 7 | 6 59 | 6 34 | 6 50 | 18 5 | | | n.a. |
| F 30 | 2 27 | 8 40 | 3 58 | 4 23 | 0n 4 | 6 46 | 0 34 | 17 36 | 2 58 | 2 30 | 1 38 | 22 53 | 0 14 | 17 57 | 0 8 | 21 23 | 1 7 | 13 7 | 6 59 | 6 33 | 6 49 | 18 5 | | | n.a. |
| S 31 | 2n50 | 4n26 | 3s 0 | 5n23 | 0n15 | 7n16 | 0s31 | 17n35 | 2n56 | 2s27 | 1n38 | 22s53 | 0s14 | 17n58 | 0s 8 | 21n23 | 1s 7 | 13n 7 | 6s58 | 6s33 | 6s48 | 18s 4 | | | n.a. |

Julian Day Number = 1695549.5, Delta T = 03h08m15s
Ecliptic obliquity = 23°42'05, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°02'32, Lahiri = - 4°55'31 Julian Calendar 1 March 71 BCE == Greg. Calendar 27 Feb. 071 BCE

The year -70 astronomical counting style corresponds to year 071 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 71 BCE
# geocentric

## APRIL 71 BCE (-70) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 25 13 | 8♈ 2'40 | 25♍43 | 15♈ 4 | 20♈49 | 20°R29 | 9°R45 | 16♋45 | 20♉40 | 12♊ 8 | 27♉58 | 16°R27 | 17♎ 4 | 11♋56 | n.a. | S 1 |
| M 2 | 12 29 10 | 9° 0'45 | 9♎22 | 17°11 | 22° 3 | 20♌27 | 9♎37 | 16°47 | 20°43 | 12° 9 | 27°59 | 16♎27 | 17° 1 | 12° 3 | n.a. | M 2 |
| T 3 | 12 33 6 | 9°58'47 | 22°44 | 19°16 | 23°17 | 20°26 | 9°30 | 16°50 | 20°46 | 12°10 | 28° 0 | 16°D27 | 16°58 | 12°10 | n.a. | T 3 |
| W 4 | 12 37 3 | 10°56'48 | 5♏48 | 21°20 | 24°30 | 20°D26 | 9°22 | 16°53 | 20°49 | 12°12 | 28° 1 | 16°27 | 16°55 | 12°17 | n.a. | W 4 |
| T 5 | 12 41 0 | 11°54'48 | 18°33 | 23°23 | 25°44 | 20°26 | 9°14 | 16°55 | 20°52 | 12°13 | 28° 2 | 16°27 | 16°52 | 12°23 | n.a. | T 5 |
| F 6 | 12 44 56 | 12°52'46 | 1♐ 1 | 25°23 | 26°58 | 20°27 | 9° 7 | 16°57 | 20°55 | 12°14 | 28° 3 | 16°28 | 16°48 | 12°30 | n.a. | F 6 |
| S 7 | 12 48 53 | 13°50'43 | 13°16 | 27°21 | 28°11 | 20°29 | 8°59 | 17° 0 | 20°58 | 12°15 | 28° 4 | 16°28 | 16°45 | 12°37 | n.a. | S 7 |
| S 8 | 12 52 49 | 14°48'38 | 25°19 | 29°17 | 29°25 | 20°32 | 8°52 | 17° 2 | 21° 1 | 12°17 | 28° 5 | 16°28 | 16°42 | 12°43 | n.a. | S 8 |
| M 9 | 12 56 46 | 15°46'31 | 7♑15 | 1♉ 9 | 0♉38 | 20°35 | 8°44 | 17° 4 | 21° 4 | 12°18 | 28° 7 | 16°29 | 16°39 | 12°50 | n.a. | M 9 |
| T 10 | 13 0 42 | 16°44'24 | 19° 8 | 2°59 | 1°52 | 20°40 | 8°36 | 17° 6 | 21° 7 | 12°20 | 28° 8 | 16°29 | 16°36 | 12°57 | n.a. | T 10 |
| W11 | 13 4 39 | 17°42'15 | 1♒ 3 | 4°46 | 3° 6 | 20°44 | 8°29 | 17° 8 | 21°10 | 12°21 | 28° 9 | 16°29 | 16°33 | 13° 4 | n.a. | W11 |
| T 12 | 13 8 35 | 18°40'04 | 13° 5 | 6°30 | 4°19 | 20°50 | 8°21 | 17°10 | 21°13 | 12°22 | 28°10 | 16°29 | 16°29 | 13°10 | n.a. | T 12 |
| F 13 | 13 12 32 | 19°37'53 | 25°18 | 8°10 | 5°33 | 20°56 | 8°14 | 17°12 | 21°16 | 12°24 | 28°11 | 16°29 | 16°26 | 13°17 | n.a. | F 13 |
| S 14 | 13 16 29 | 20°35'40 | 7♓45 | 9°47 | 6°46 | 21° 3 | 8° 7 | 17°13 | 21°19 | 12°25 | 28°12 | 16°29 | 16°23 | 13°24 | n.a. | S 14 |
| S 15 | 13 20 25 | 21°33'25 | 20°29 | 11°20 | 7°59 | 21°11 | 7°59 | 17°15 | 21°23 | 12°27 | 28°13 | 16°30 | 16°20 | 13°31 | n.a. | S 15 |
| M16 | 13 24 22 | 22°31'10 | 3♈32 | 12°50 | 9°13 | 21°19 | 7°52 | 17°16 | 21°26 | 12°29 | 28°15 | 16°30 | 16°17 | 13°37 | n.a. | M16 |
| T 17 | 13 28 18 | 23°28'53 | 16°55 | 14°16 | 10°26 | 21°28 | 7°45 | 17°18 | 21°29 | 12°30 | 28°16 | 16°R30 | 16°13 | 13°44 | n.a. | T 17 |
| W18 | 13 32 15 | 24°26'34 | 0♉36 | 15°39 | 11°40 | 21°37 | 7°38 | 17°19 | 21°32 | 12°32 | 28°17 | 16°30 | 16°10 | 13°51 | n.a. | W18 |
| T 19 | 13 36 11 | 25°24'14 | 14°32 | 16°58 | 12°53 | 21°47 | 7°31 | 17°20 | 21°35 | 12°33 | 28°18 | 16°30 | 16° 7 | 13°57 | n.a. | T 19 |
| F 20 | 13 40 8 | 26°21'53 | 28°42 | 18°13 | 14° 7 | 21°58 | 7°24 | 17°21 | 21°39 | 12°35 | 28°19 | 16°29 | 16° 4 | 14° 4 | n.a. | F 20 |
| S 21 | 13 44 4 | 27°19'30 | 13♊ 0 | 19°25 | 15°20 | 22° 9 | 7°17 | 17°22 | 21°42 | 12°37 | 28°21 | 16°27 | 16° 1 | 14°11 | n.a. | S 21 |
| S 22 | 13 48 1 | 28°17'06 | 27°21 | 20°32 | 16°33 | 22°21 | 7°10 | 17°23 | 21°45 | 12°38 | 28°22 | 16°26 | 15°58 | 14°18 | n.a. | S 22 |
| M23 | 13 51 58 | 29°14'40 | 11♋42 | 21°36 | 17°46 | 22°34 | 7° 4 | 17°24 | 21°49 | 12°40 | 28°23 | 16°25 | 15°54 | 14°24 | n.a. | M23 |
| T 24 | 13 55 54 | 0♉12'13 | 25°59 | 22°36 | 19° 0 | 22°47 | 6°57 | 17°25 | 21°52 | 12°42 | 28°24 | 16°D25 | 15°51 | 14°31 | n.a. | T 24 |
| W25 | 13 59 51 | 1° 9'44 | 10♌ 9 | 23°31 | 20°13 | 23° 0 | 6°51 | 17°25 | 21°55 | 12°44 | 28°26 | 16°25 | 15°48 | 14°38 | n.a. | W25 |
| T 26 | 14 3 47 | 2° 7'13 | 24°11 | 24°23 | 21°26 | 23°15 | 6°44 | 17°26 | 21°59 | 12°45 | 28°27 | 16°25 | 15°45 | 14°44 | n.a. | T 26 |
| F 27 | 14 7 44 | 3° 4'41 | 8♍ 1 | 25°10 | 22°39 | 23°29 | 6°38 | 17°26 | 22° 2 | 12°47 | 28°28 | 16°27 | 15°42 | 14°51 | n.a. | F 27 |
| S 28 | 14 11 40 | 4° 2'08 | 21°41 | 25°53 | 23°52 | 23°45 | 6°32 | 17°26 | 22° 6 | 12°49 | 28°30 | 16°28 | 15°39 | 14°58 | n.a. | S 28 |
| S 29 | 14 15 37 | 4°59'33 | 5♎ 8 | 26°32 | 25° 6 | 24° 0 | 6°26 | 17°27 | 22° 9 | 12°51 | 28°31 | 16°29 | 15°35 | 15° 5 | n.a. | S 29 |
| M30 | 14 19 33 | 5♉56'57 | 18♎22 | 27♉ 6 | 26♉19 | 24♌17 | 6♎20 | 17°R27 | 22♉12 | 12♊53 | 28♉32 | 16°R29 | 15♎32 | 15♋11 | n.a. | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 3n13 | 0n 0 | 1s52 | 6n23 | 0n26 | 7n46 | 0s29 | 17n33 | 2n53 | 2s24 | 1n38 | 22s53 | 0s14 | 17n59 | 0s 8 | 21n23 | 1s 7 | 13n 8 | 6s58 | 6s32 | 6s47 | 18s 3 | | n.a. |
| M 2 | 3 37 | 4s21 | 0 39 | 7 23 | 0 37 | 8 16 | 0 27 | 17 31 | 2 50 | 2 21 | 1 38 | 22 52 | 0 15 | 18 0 | 0 8 | 21 24 | 1 7 | 13 8 | 6 58 | 6 32 | 6 45 | 18 3 | | n.a. |
| T 3 | 4 0 | 8 24 | 0n35 | 8 21 | 0 47 | 8 46 | 0 24 | 17 28 | 2 47 | 2 18 | 1 38 | 22 52 | 0 15 | 18 0 | 0 8 | 21 24 | 1 7 | 13 8 | 6 58 | 6 32 | 6 44 | 18 2 | | n.a. |
| W 4 | 4 23 | 11 57 | 1 45 | 9 18 | 0 58 | 9 15 | 0 22 | 17 26 | 2 45 | 2 15 | 1 38 | 22 52 | 0 15 | 18 1 | 0 8 | 21 24 | 1 7 | 13 9 | 6 58 | 6 32 | 6 43 | 18 1 | | n.a. |
| T 5 | 4 46 | 14 50 | 2 49 | 10 14 | 1 8 | 9 45 | 0 20 | 17 23 | 2 42 | 2 12 | 1 38 | 22 52 | 0 15 | 18 2 | 0 8 | 21 24 | 1 7 | 13 9 | 6 58 | 6 32 | 6 42 | 18 1 | | n.a. |
| F 6 | 5 8 | 16 57 | 3 43 | 11 8 | 1 18 | 10 14 | 0 17 | 17 20 | 2 39 | 2 9 | 1 38 | 22 52 | 0 15 | 18 3 | 0 8 | 21 24 | 1 7 | 13 10 | 6 58 | 6 33 | 6 40 | 18 0 | | n.a. |
| S 7 | 5 31 | 18 15 | 4 25 | 12 0 | 1 28 | 10 43 | 0 15 | 17 17 | 2 36 | 2 6 | 1 38 | 22 51 | 0 15 | 18 4 | 0 8 | 21 25 | 1 7 | 13 10 | 6 57 | 6 33 | 6 39 | 17 59 | | n.a. |
| S 8 | 5 54 | 18 41 | 4 56 | 12 50 | 1 37 | 11 12 | 0 12 | 17 14 | 2 34 | 2 3 | 1 38 | 22 51 | 0 15 | 18 4 | 0 8 | 21 25 | 1 7 | 13 10 | 6 57 | 6 33 | 6 38 | 17 58 | | n.a. |
| M 9 | 6 16 | 18 18 | 5 13 | 13 39 | 1 45 | 11 40 | 0 10 | 17 10 | 2 31 | 2 0 | 1 38 | 22 51 | 0 15 | 18 5 | 0 8 | 21 25 | 1 7 | 13 11 | 6 57 | 6 33 | 6 37 | 17 58 | | n.a. |
| T 10 | 6 39 | 17 6 | 5 17 | 14 25 | 1 53 | 12 8 | 0 7 | 17 6 | 2 28 | 1 57 | 1 38 | 22 51 | 0 15 | 18 6 | 0 8 | 21 25 | 1 6 | 13 11 | 6 57 | 6 33 | 6 36 | 17 57 | | n.a. |
| W11 | 7 1 | 15 9 | 5 7 | 15 8 | 2 0 | 12 36 | 0 5 | 17 2 | 2 26 | 1 54 | 1 38 | 22 51 | 0 16 | 18 7 | 0 8 | 21 26 | 1 6 | 13 11 | 6 57 | 6 33 | 6 34 | 17 56 | | n.a. |
| T 12 | 7 24 | 12 32 | 4 44 | 15 50 | 2 7 | 13 4 | 0 2 | 16 58 | 2 23 | 1 51 | 1 38 | 22 51 | 0 16 | 18 8 | 0 8 | 21 26 | 1 6 | 13 12 | 6 57 | 6 33 | 6 33 | 17 56 | | n.a. |
| F 13 | 7 46 | 9 21 | 4 7 | 16 29 | 2 13 | 13 31 | 0n 0 | 16 53 | 2 21 | 1 49 | 1 37 | 22 51 | 0 16 | 18 9 | 0 8 | 21 26 | 1 6 | 13 12 | 6 56 | 6 33 | 6 32 | 17 55 | | n.a. |
| S 14 | 8 8 | 5 41 | 3 19 | 17 5 | 2 18 | 13 58 | 0 3 | 16 49 | 2 18 | 1 46 | 1 37 | 22 50 | 0 16 | 18 9 | 0 8 | 21 26 | 1 6 | 13 13 | 6 56 | 6 33 | 6 31 | 17 54 | | n.a. |
| S 15 | 8 30 | 1 41 | 2 19 | 17 39 | 2 23 | 14 24 | 0 5 | 16 44 | 2 15 | 1 43 | 1 37 | 22 50 | 0 16 | 18 10 | 0 8 | 21 26 | 1 6 | 13 13 | 6 56 | 6 33 | 6 29 | 17 54 | | n.a. |
| M16 | 8 51 | 2n31 | 1 11 | 18 11 | 2 26 | 14 51 | 0 8 | 16 39 | 2 13 | 1 40 | 1 37 | 22 50 | 0 16 | 18 11 | 0 8 | 21 27 | 1 6 | 13 13 | 6 56 | 6 33 | 6 28 | 17 53 | | n.a. |
| T 17 | 9 13 | 6 41 | 0s 2 | 18 40 | 2 29 | 15 16 | 0 10 | 16 33 | 2 10 | 1 38 | 1 37 | 22 50 | 0 16 | 18 12 | 0 8 | 21 27 | 1 6 | 13 14 | 6 56 | 6 33 | 6 27 | 17 52 | | n.a. |
| W18 | 9 34 | 10 36 | 1 17 | 19 7 | 2 31 | 15 42 | 0 13 | 16 28 | 2 8 | 1 35 | 1 37 | 22 50 | 0 16 | 18 13 | 0 8 | 21 27 | 1 6 | 13 14 | 6 56 | 6 33 | 6 26 | 17 52 | | n.a. |
| T 19 | 9 56 | 14 0 | 2 29 | 19 31 | 2 32 | 16 7 | 0 15 | 16 22 | 2 5 | 1 32 | 1 37 | 22 50 | 0 16 | 18 14 | 0 8 | 21 27 | 1 6 | 13 15 | 6 56 | 6 33 | 6 24 | 17 51 | | n.a. |
| F 20 | 10 17 | 16 38 | 3 33 | 19 53 | 2 33 | 16 32 | 0 18 | 16 16 | 2 3 | 1 30 | 1 36 | 22 50 | 0 17 | 18 15 | 0 8 | 21 28 | 1 6 | 13 15 | 6 55 | 6 33 | 6 23 | 17 50 | | n.a. |
| S 21 | 10 38 | 18 14 | 4 24 | 20 13 | 2 32 | 16 56 | 0 20 | 16 10 | 2 0 | 1 27 | 1 36 | 22 50 | 0 17 | 18 15 | 0 8 | 21 28 | 1 6 | 13 15 | 6 55 | 6 32 | 6 22 | 17 49 | | n.a. |
| S 22 | 10 59 | 18 42 | 4 59 | 20 30 | 2 31 | 17 20 | 0 23 | 16 4 | 1 58 | 1 24 | 1 36 | 22 50 | 0 17 | 18 16 | 0 8 | 21 28 | 1 6 | 13 16 | 6 55 | 6 32 | 6 21 | 17 49 | | n.a. |
| M23 | 11 19 | 17 57 | 5 15 | 20 45 | 2 28 | 17 43 | 0 25 | 15 58 | 1 56 | 1 22 | 1 36 | 22 50 | 0 17 | 18 17 | 0 8 | 21 28 | 1 6 | 13 16 | 6 55 | 6 31 | 6 20 | 17 48 | | n.a. |
| T 24 | 11 40 | 16 5 | 5 12 | 20 57 | 2 25 | 18 6 | 0 28 | 15 51 | 1 53 | 1 19 | 1 36 | 22 50 | 0 17 | 18 18 | 0 8 | 21 29 | 1 6 | 13 17 | 6 55 | 6 31 | 6 18 | 17 47 | | n.a. |
| W25 | 12 0 | 13 15 | 4 49 | 21 8 | 2 21 | 18 29 | 0 30 | 15 45 | 1 51 | 1 17 | 1 36 | 22 50 | 0 17 | 18 19 | 0 8 | 21 29 | 1 6 | 13 17 | 6 55 | 6 31 | 6 17 | 17 46 | | n.a. |
| T 26 | 12 20 | 9 41 | 4 10 | 21 16 | 2 16 | 18 51 | 0 33 | 15 38 | 1 49 | 1 15 | 1 35 | 22 50 | 0 17 | 18 20 | 0 8 | 21 29 | 1 6 | 13 17 | 6 55 | 6 32 | 6 16 | 17 46 | | n.a. |
| F 27 | 12 40 | 5 37 | 3 17 | 21 22 | 2 10 | 19 12 | 0 35 | 15 31 | 1 46 | 1 12 | 1 35 | 22 50 | 0 17 | 18 21 | 0 8 | 21 29 | 1 6 | 13 18 | 6 55 | 6 32 | 6 15 | 17 45 | | n.a. |
| S 28 | 13 0 | 1 18 | 2 13 | 21 25 | 2 3 | 19 33 | 0 38 | 15 23 | 1 44 | 1 10 | 1 35 | 22 50 | 0 17 | 18 22 | 0 8 | 21 30 | 1 6 | 13 18 | 6 55 | 6 32 | 6 13 | 17 44 | | n.a. |
| S 29 | 13 20 | 3s 1 | 1 2 | 21 27 | 1 55 | 19 54 | 0 40 | 15 16 | 1 42 | 1 8 | 1 35 | 22 50 | 0 18 | 18 23 | 0 8 | 21 30 | 1 6 | 13 19 | 6 54 | 6 33 | 6 12 | 17 44 | | n.a. |
| M30 | 13n39 | 7s 7 | 0n10 | 21n26 | 1n46 | 20n14 | 0n43 | 15n 8 | 1n40 | 1s 6 | 1n35 | 22s50 | 0s18 | 18n23 | 0s 8 | 21n30 | 1s 6 | 13n19 | 6s54 | 6s33 | 6s11 | 17s43 | | n.a. |

Julian Day Number = 1695580.5, Delta T = 03h08m14s
Ecliptic obliquity = 23°42'05, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°02'28, Lahiri = - 4°55'27 Julian Calendar 1 Apr. 71 BCE == Greg. Calendar 30 March 071 BCE


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# ASTRODIENST EPHEMERIS for the year 71 BCE
# geocentric

## MAY 71 BCE (-70) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 23 30 | 6♉54'19 | 1♏23 | 27♉36 | 27♉32 | 24♌33 | 6°R14 | 17°R27 | 22♉16 | 12♊54 | 28♉34 | 16°R28 | 15♎29 | 15♑18 | n.a. | T 1 |
| W 2 | 14 27 27 | 7°51'41 | 14°10 | 28° 1 | 28°45 | 24°51 | 6♎ 9 | 17♑27 | 22°19 | 12°56 | 28°35 | 16♎27 | 15°26 | 15°25 | n.a. | W 2 |
| T 3 | 14 31 23 | 8°49'02 | 26°45 | 28°22 | 29°58 | 25° 8 | 6° 3 | 17°26 | 22°23 | 12°58 | 28°36 | 16°24 | 15°23 | 15°32 | n.a. | T 3 |
| F 4 | 14 35 20 | 9°46'22 | 9♐ 6 | 28°38 | 1♊11 | 25°26 | 5°58 | 17°26 | 22°26 | 13° 0 | 28°38 | 16°21 | 15°19 | 15°38 | n.a. | F 4 |
| S 5 | 14 39 16 | 10°43'41 | 21°17 | 28°49 | 2°24 | 25°45 | 5°53 | 17°26 | 22°30 | 13° 2 | 28°39 | 16°17 | 15°16 | 15°45 | n.a. | S 5 |
| S 6 | 14 43 13 | 11°40'59 | 3♑18 | 28°56 | 3°37 | 26° 4 | 5°48 | 17°25 | 22°33 | 13° 4 | 28°40 | 16°13 | 15°13 | 15°52 | n.a. | S 6 |
| M 7 | 14 47 9 | 12°38'17 | 15°14 | 28°R58 | 4°50 | 26°24 | 5°43 | 17°25 | 22°37 | 13° 6 | 28°42 | 16°10 | 15°10 | 15°58 | n.a. | M 7 |
| T 8 | 14 51 6 | 13°35'34 | 27° 7 | 28°56 | 6° 3 | 26°44 | 5°38 | 17°24 | 22°40 | 13° 8 | 28°43 | 16° 7 | 15° 7 | 16° 5 | n.a. | T 8 |
| W 9 | 14 55 2 | 14°32'51 | 9♒ 1 | 28°49 | 7°16 | 27° 4 | 5°33 | 17°23 | 22°44 | 13°10 | 28°45 | 16° 6 | 15° 4 | 16°12 | n.a. | W 9 |
| T 10 | 14 58 59 | 15°30'06 | 21° 2 | 28°38 | 8°28 | 27°25 | 5°29 | 17°22 | 22°47 | 13°12 | 28°46 | 16°D 6 | 15° 0 | 16°19 | n.a. | T 10 |
| F 11 | 15 2 56 | 16°27'22 | 3♓14 | 28°24 | 9°41 | 27°46 | 5°25 | 17°21 | 22°51 | 13°14 | 28°47 | 16° 7 | 14°57 | 16°25 | n.a. | F 11 |
| S 12 | 15 6 52 | 17°24'37 | 15°41 | 28° 5 | 10°54 | 28° 7 | 5°20 | 17°20 | 22°54 | 13°16 | 28°49 | 16° 8 | 14°54 | 16°32 | n.a. | S 12 |
| S 13 | 15 10 49 | 18°21'51 | 28°28 | 27°42 | 12° 7 | 28°29 | 5°16 | 17°19 | 22°58 | 13°18 | 28°50 | 16°10 | 14°51 | 16°39 | n.a. | S 13 |
| M14 | 15 14 45 | 19°19'05 | 11♈37 | 27°17 | 13°20 | 28°52 | 5°13 | 17°18 | 23° 2 | 13°20 | 28°52 | 16°R11 | 14°48 | 16°46 | n.a. | M14 |
| T 15 | 15 18 42 | 20°16'19 | 25°11 | 26°49 | 14°32 | 29°14 | 5° 9 | 17°16 | 23° 5 | 13°22 | 28°53 | 16°11 | 14°45 | 16°52 | n.a. | T 15 |
| W16 | 15 22 38 | 21°13'32 | 9♉ 9 | 26°19 | 15°45 | 29°38 | 5° 5 | 17°15 | 23° 9 | 13°24 | 28°54 | 16° 9 | 14°41 | 16°59 | n.a. | W16 |
| T 17 | 15 26 35 | 22°10'44 | 23°29 | 25°47 | 16°58 | 0♍ 1 | 5° 2 | 17°14 | 23°12 | 13°26 | 28°56 | 16° 6 | 14°38 | 17° 6 | n.a. | T 17 |
| F 18 | 15 30 31 | 23° 7'56 | 8♊ 4 | 25°13 | 18°10 | 0°25 | 4°59 | 17°12 | 23°16 | 13°29 | 28°57 | 16° 1 | 14°35 | 17°12 | n.a. | F 18 |
| S 19 | 15 34 28 | 24° 5'08 | 22°49 | 24°39 | 19°23 | 0°49 | 4°56 | 17°10 | 23°19 | 13°31 | 28°59 | 15°55 | 14°32 | 17°19 | n.a. | S 19 |
| S 20 | 15 38 25 | 25° 2'19 | 7♋36 | 24° 5 | 20°36 | 1°14 | 4°53 | 17° 8 | 23°23 | 13°33 | 29° 0 | 15°50 | 14°29 | 17°26 | n.a. | S 20 |
| M21 | 15 42 21 | 25°59'29 | 22°17 | 23°32 | 21°48 | 1°38 | 4°50 | 17° 6 | 23°26 | 13°35 | 29° 2 | 15°45 | 14°25 | 17°33 | n.a. | M21 |
| T 22 | 15 46 18 | 26°56'39 | 6♌46 | 22°59 | 23° 1 | 2° 4 | 4°48 | 17° 5 | 23°30 | 13°37 | 29° 3 | 15°42 | 14°22 | 17°39 | n.a. | T 22 |
| W23 | 15 50 14 | 27°53'48 | 21° 0 | 22°28 | 24°13 | 2°29 | 4°46 | 17° 2 | 23°33 | 13°39 | 29° 5 | 15°40 | 14°19 | 17°46 | n.a. | W23 |
| T 24 | 15 54 11 | 28°50'56 | 4♍56 | 22° 0 | 25°26 | 2°55 | 4°44 | 17° 0 | 23°37 | 13°41 | 29° 6 | 15°D40 | 14°16 | 17°53 | n.a. | T 24 |
| F 25 | 15 58 7 | 29°48'04 | 18°34 | 21°34 | 26°38 | 3°21 | 4°42 | 16°58 | 23°41 | 13°44 | 29° 7 | 15°41 | 14°13 | 17°59 | n.a. | F 25 |
| S 26 | 16 2 4 | 0♊45'11 | 1♎55 | 21°11 | 27°51 | 3°48 | 4°40 | 16°56 | 23°44 | 13°46 | 29° 9 | 15°43 | 14°10 | 18° 6 | n.a. | S 26 |
| S 27 | 16 6 0 | 1°42'17 | 15° 1 | 20°51 | 29° 3 | 4°14 | 4°38 | 16°53 | 23°48 | 13°48 | 29°10 | 15°R43 | 14° 6 | 18°13 | n.a. | S 27 |
| M28 | 16 9 57 | 2°39'23 | 27°54 | 20°36 | 0♋16 | 4°41 | 4°37 | 16°51 | 23°51 | 13°50 | 29°12 | 15°42 | 14° 3 | 18°20 | n.a. | M28 |
| T 29 | 16 13 54 | 3°36'29 | 10♏35 | 20°24 | 1°28 | 5° 9 | 4°36 | 16°48 | 23°55 | 13°52 | 29°13 | 15°40 | 14° 0 | 18°26 | n.a. | T 29 |
| W30 | 16 17 50 | 4°33'35 | 23° 5 | 20°17 | 2°40 | 5°36 | 4°35 | 16°46 | 23°58 | 13°55 | 29°15 | 15°35 | 13°57 | 18°33 | n.a. | W30 |
| T 31 | 16 21 47 | 5♊30'40 | 5♐25 | 20°D15 | 3♋52 | 6♍ 4 | 4♎34 | 16♑43 | 24♉ 2 | 13♊57 | 29♉16 | 15♎28 | 13♎54 | 18♑40 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| T 1 | 13n58 | 10s49 | 1n21 | 21n24 | 1n36 | 20n33 | 0n45 | 15n 1 | 1n38 | 1s 4 | 1n34 | 22s51 | 0s18 | 18n24 | 0s 8 | 21n31 | 1s 6 | 13n19 | 6s54 | 6s33 | 6s10 | 17s42 | | | n.a. |
| W 2 | 14 17 | 13 56 | 2 27 | 21 19 | 1 26 | 20 52 | 0 48 | 14 53 | 1 35 | 1 2 | 1 34 | 22 51 | 0 18 | 18 25 | 0 8 | 21 31 | 1 6 | 13 20 | 6 54 | 6 32 | 6 8 | 17 41 | | | n.a. |
| T 3 | 14 36 | 16 20 | 3 24 | 21 13 | 1 14 | 21 11 | 0 50 | 14 45 | 1 33 | 1 0 | 1 34 | 22 51 | 0 18 | 18 26 | 0 8 | 21 31 | 1 6 | 13 20 | 6 54 | 6 31 | 6 7 | 17 41 | | | n.a. |
| F 4 | 14 54 | 17 56 | 4 10 | 21 5 | 1 2 | 21 28 | 0 52 | 14 36 | 1 31 | 0 58 | 1 34 | 22 51 | 0 18 | 18 27 | 0 8 | 21 31 | 1 6 | 13 20 | 6 54 | 6 30 | 6 6 | 17 40 | | | n.a. |
| S 5 | 15 12 | 18 41 | 4 44 | 20 54 | 0 49 | 21 46 | 0 55 | 14 28 | 1 29 | 0 56 | 1 34 | 22 51 | 0 18 | 18 28 | 0 8 | 21 32 | 1 6 | 13 21 | 6 54 | 6 28 | 6 5 | 17 39 | | | n.a. |
| S 6 | 15 30 | 18 34 | 5 6 | 20 42 | 0 35 | 22 2 | 0 57 | 14 20 | 1 27 | 0 54 | 1 33 | 22 51 | 0 18 | 18 29 | 0 8 | 21 32 | 1 6 | 13 21 | 6 54 | 6 27 | 6 3 | 17 38 | | | n.a. |
| M 7 | 15 48 | 17 38 | 5 13 | 20 29 | 0 20 | 22 18 | 0 59 | 14 11 | 1 25 | 0 52 | 1 33 | 22 52 | 0 18 | 18 30 | 0 8 | 21 32 | 1 6 | 13 22 | 6 54 | 6 25 | 6 2 | 17 37 | | | n.a. |
| T 8 | 16 5 | 15 56 | 5 8 | 20 13 | 0 5 | 22 33 | 1 1 | 14 2 | 1 23 | 0 51 | 1 33 | 22 52 | 0 19 | 18 31 | 0 8 | 21 32 | 1 5 | 13 22 | 6 54 | 6 24 | 6 1 | 17 37 | | | n.a. |
| W 9 | 16 23 | 13 33 | 4 49 | 19 56 | 0s11 | 22 48 | 1 4 | 13 53 | 1 21 | 0 49 | 1 33 | 22 52 | 0 19 | 18 32 | 0 8 | 21 33 | 1 5 | 13 22 | 6 53 | 6 24 | 6 0 | 17 36 | | | n.a. |
| T 10 | 16 40 | 10 35 | 4 17 | 19 38 | 0 27 | 23 2 | 1 6 | 13 44 | 1 19 | 0 47 | 1 32 | 22 52 | 0 19 | 18 33 | 0 8 | 21 33 | 1 5 | 13 23 | 6 53 | 6 24 | 5 58 | 17 35 | | | n.a. |
| F 11 | 16 56 | 7 7 | 3 34 | 19 18 | 0 44 | 23 16 | 1 8 | 13 35 | 1 17 | 0 46 | 1 32 | 22 52 | 0 19 | 18 33 | 0 8 | 21 33 | 1 5 | 13 23 | 6 53 | 6 24 | 5 57 | 17 34 | | | n.a. |
| S 12 | 17 13 | 3 16 | 2 39 | 18 58 | 1 1 | 23 29 | 1 10 | 13 26 | 1 15 | 0 45 | 1 32 | 22 53 | 0 19 | 18 34 | 0 8 | 21 34 | 1 5 | 13 24 | 6 53 | 6 25 | 5 56 | 17 34 | | | n.a. |
| S 13 | 17 29 | 0n50 | 1 35 | 18 36 | 1 18 | 23 41 | 1 12 | 13 16 | 1 13 | 0 43 | 1 32 | 22 53 | 0 19 | 18 35 | 0 8 | 21 34 | 1 5 | 13 24 | 6 53 | 6 26 | 5 55 | 17 33 | | | n.a. |
| M14 | 17 45 | 5 2 | 0 25 | 18 14 | 1 35 | 23 52 | 1 14 | 13 6 | 1 11 | 0 42 | 1 31 | 22 53 | 0 19 | 18 36 | 0 8 | 21 34 | 1 5 | 13 24 | 6 53 | 6 26 | 5 53 | 17 32 | | | n.a. |
| T 15 | 18 0 | 9 5 | 0s49 | 17 51 | 1 51 | 24 3 | 1 16 | 12 57 | 1 9 | 0 41 | 1 31 | 22 54 | 0 19 | 18 37 | 0 8 | 21 34 | 1 5 | 13 25 | 6 53 | 6 26 | 5 52 | 17 31 | | | n.a. |
| W16 | 18 16 | 12 47 | 2 2 | 17 28 | 2 8 | 24 13 | 1 18 | 12 47 | 1 7 | 0 39 | 1 31 | 22 54 | 0 20 | 18 38 | 0 8 | 21 35 | 1 5 | 13 25 | 6 53 | 6 25 | 5 51 | 17 30 | | | n.a. |
| T 17 | 18 31 | 15 48 | 3 9 | 17 5 | 2 24 | 24 22 | 1 20 | 12 37 | 1 6 | 0 38 | 1 30 | 22 54 | 0 20 | 18 39 | 0 8 | 21 35 | 1 5 | 13 25 | 6 53 | 6 24 | 5 50 | 17 30 | | | n.a. |
| F 18 | 18 46 | 17 52 | 4 5 | 16 42 | 2 39 | 24 31 | 1 21 | 12 26 | 1 4 | 0 37 | 1 30 | 22 54 | 0 20 | 18 40 | 0 8 | 21 35 | 1 5 | 13 26 | 6 53 | 6 22 | 5 49 | 17 29 | | | n.a. |
| S 19 | 19 0 | 18 45 | 4 45 | 16 20 | 2 54 | 24 39 | 1 23 | 12 16 | 1 2 | 0 36 | 1 30 | 22 55 | 0 20 | 18 41 | 0 8 | 21 36 | 1 5 | 13 26 | 6 53 | 6 20 | 5 47 | 17 28 | | | n.a. |
| S 20 | 19 14 | 18 23 | 5 7 | 15 58 | 3 8 | 24 46 | 1 25 | 12 5 | 1 0 | 0 36 | 1 30 | 22 55 | 0 20 | 18 42 | 0 8 | 21 36 | 1 5 | 13 26 | 6 53 | 6 18 | 5 46 | 17 27 | | | n.a. |
| M21 | 19 28 | 16 46 | 5 8 | 15 38 | 3 20 | 24 53 | 1 26 | 11 55 | 0 58 | 0 35 | 1 29 | 22 55 | 0 20 | 18 43 | 0 8 | 21 36 | 1 5 | 13 27 | 6 53 | 6 16 | 5 45 | 17 26 | | | n.a. |
| T 22 | 19 41 | 14 7 | 4 49 | 15 18 | 3 32 | 24 59 | 1 28 | 11 44 | 0 57 | 0 34 | 1 29 | 22 56 | 0 20 | 18 43 | 0 8 | 21 36 | 1 5 | 13 27 | 6 53 | 6 15 | 5 44 | 17 26 | | | n.a. |
| W23 | 19 54 | 10 39 | 4 13 | 15 1 | 3 42 | 25 4 | 1 30 | 11 33 | 0 55 | 0 33 | 1 29 | 22 56 | 0 20 | 18 44 | 0 8 | 21 37 | 1 5 | 13 28 | 6 52 | 6 14 | 5 42 | 17 25 | | | n.a. |
| T 24 | 20 7 | 6 40 | 3 23 | 14 45 | 3 51 | 25 8 | 1 31 | 11 22 | 0 53 | 0 33 | 1 29 | 22 57 | 0 20 | 18 45 | 0 8 | 21 37 | 1 5 | 13 28 | 6 52 | 6 14 | 5 41 | 17 24 | | | n.a. |
| F 25 | 20 20 | 2 24 | 2 22 | 14 31 | 3 59 | 25 12 | 1 33 | 11 11 | 0 51 | 0 32 | 1 28 | 22 57 | 0 21 | 18 46 | 0 8 | 21 37 | 1 5 | 13 28 | 6 52 | 6 14 | 5 40 | 17 23 | | | n.a. |
| S 26 | 20 32 | 1s54 | 1 14 | 14 19 | 4 5 | 25 15 | 1 34 | 11 0 | 0 50 | 0 32 | 1 28 | 22 57 | 0 21 | 18 47 | 0 8 | 21 38 | 1 5 | 13 29 | 6 52 | 6 15 | 5 39 | 17 22 | | | n.a. |
| S 27 | 20 44 | 6 2 | 0 4 | 14 9 | 4 10 | 25 17 | 1 35 | 10 48 | 0 48 | 0 31 | 1 28 | 22 58 | 0 21 | 18 48 | 0 8 | 21 38 | 1 5 | 13 29 | 6 52 | 6 15 | 5 37 | 17 22 | | | n.a. |
| M28 | 20 55 | 9 50 | 1n 5 | 14 1 | 4 13 | 25 18 | 1 36 | 10 37 | 0 46 | 0 31 | 1 27 | 22 58 | 0 21 | 18 49 | 0 8 | 21 38 | 1 5 | 13 29 | 6 52 | 6 15 | 5 36 | 17 21 | | | n.a. |
| T 29 | 21 6 | 13 6 | 2 10 | 13 56 | 4 15 | 25 19 | 1 38 | 10 25 | 0 45 | 0 31 | 1 27 | 22 59 | 0 21 | 18 50 | 0 8 | 21 38 | 1 5 | 13 30 | 6 52 | 6 14 | 5 35 | 17 20 | | | n.a. |
| W30 | 21 17 | 15 44 | 3 7 | 13 54 | 4 16 | 25 19 | 1 39 | 10 14 | 0 43 | 0 31 | 1 27 | 22 59 | 0 21 | 18 51 | 0 8 | 21 39 | 1 5 | 13 30 | 6 52 | 6 12 | 5 34 | 17 19 | | | n.a. |
| T 31 | 21n27 | 17s35 | 3n55 | 13n54 | 4s16 | 25n18 | 1n40 | 10n 2 | 0n42 | 0s31 | 1n26 | 23s 0 | 0s21 | 18n52 | 0s 8 | 21n39 | 1s 5 | 13n30 | 6s52 | 6s 9 | 5s32 | 17s18 | | | n.a. |

Julian Day Number = 1695610.5, Delta T = 03h08m13s
Ecliptic obliquity = 23°42'04, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°02'24, Lahiri = - 4°55'23 Julian Calendar 1 May 71 BCE == Greg. Calendar 29 Apr. 071 BCE

The year -70 astronomical counting style corresponds to year 071 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 71 BCE
# geocentric

## JUNE 71 BCE (-70) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 16 25 43 | 6♊27'45 | 17♐37 | 20♉17 | 5♋ 5 | 6♍32 | 4°R33 | 16°R40 | 24♉ 5 | 13♊59 | 29♉17 | 15°R19 | 13♎50 | 18♏47 | n.a. | F 1 |
| S 2 | 16 29 40 | 7°24'51 | 29°41 | 20°24 | 6°17 | 7° 1 | 4♎33 | 16♏37 | 24° 9 | 14° 1 | 29°19 | 15♎10 | 13°47 | 18°53 | n.a. | S 2 |
| S 3 | 16 33 36 | 8°21'56 | 11♏39 | 20°36 | 7°29 | 7°29 | 4°32 | 16°34 | 24°12 | 14° 3 | 29°20 | 15° 0 | 13°44 | 19° 0 | n.a. | S 3 |
| M 4 | 16 37 33 | 9°19'02 | 23°32 | 20°53 | 8°41 | 7°58 | 4°D32 | 16°31 | 24°16 | 14° 6 | 29°22 | 14°51 | 13°41 | 19° 7 | n.a. | M 4 |
| T 5 | 16 41 29 | 10°16'08 | 5♒24 | 21°15 | 9°53 | 8°28 | 4°32 | 16°28 | 24°19 | 14° 8 | 29°23 | 14°44 | 13°38 | 19°13 | n.a. | T 5 |
| W 6 | 16 45 26 | 11°13'14 | 17°17 | 21°42 | 11° 5 | 8°57 | 4°32 | 16°25 | 24°22 | 14°10 | 29°24 | 14°39 | 13°35 | 19°20 | n.a. | W 6 |
| T 7 | 16 49 23 | 12°10'21 | 29°16 | 22°14 | 12°17 | 9°27 | 4°33 | 16°22 | 24°26 | 14°12 | 29°26 | 14°36 | 13°31 | 19°27 | n.a. | T 7 |
| F 8 | 16 53 19 | 13° 7'28 | 11♓25 | 22°50 | 13°29 | 9°57 | 4°33 | 16°18 | 24°29 | 14°15 | 29°27 | 14°D35 | 13°28 | 19°34 | n.a. | F 8 |
| S 9 | 16 57 16 | 14° 4'35 | 23°50 | 23°32 | 14°41 | 10°27 | 4°34 | 16°15 | 24°33 | 14°17 | 29°29 | 14°36 | 13°25 | 19°40 | n.a. | S 9 |
| S 10 | 17 1 12 | 15° 1'43 | 6♈34 | 24°19 | 15°53 | 10°57 | 4°35 | 16°12 | 24°36 | 14°19 | 29°30 | 14°36 | 13°22 | 19°47 | n.a. | S 10 |
| M11 | 17 5 9 | 15°58'51 | 19°43 | 25°10 | 17° 5 | 11°28 | 4°36 | 16° 8 | 24°40 | 14°21 | 29°31 | 14°R37 | 13°19 | 19°54 | n.a. | M11 |
| T 12 | 17 9 5 | 16°56'00 | 3♉19 | 26° 6 | 18°17 | 11°59 | 4°37 | 16° 5 | 24°43 | 14°24 | 29°33 | 14°35 | 13°16 | 20° 1 | n.a. | T 12 |
| W13 | 17 13 2 | 17°53'10 | 17°23 | 27° 6 | 19°29 | 12°30 | 4°39 | 16° 1 | 24°46 | 14°26 | 29°34 | 14°31 | 13°12 | 20° 7 | n.a. | W13 |
| T 14 | 17 16 58 | 18°50'20 | 1♊54 | 28°12 | 20°41 | 13° 1 | 4°41 | 15°57 | 24°50 | 14°28 | 29°36 | 14°25 | 13° 9 | 20°14 | n.a. | T 14 |
| F 15 | 17 20 55 | 19°47'31 | 16°46 | 29°22 | 21°52 | 13°33 | 4°42 | 15°53 | 24°53 | 14°30 | 29°37 | 14°17 | 13° 6 | 20°21 | n.a. | F 15 |
| S 16 | 17 24 52 | 20°44'42 | 1♋52 | 0♊36 | 23° 4 | 14° 4 | 4°44 | 15°50 | 24°56 | 14°32 | 29°38 | 14° 8 | 13° 3 | 20°27 | n.a. | S 16 |
| S 17 | 17 28 48 | 21°41'54 | 17° 1 | 1°54 | 24°16 | 14°36 | 4°47 | 15°46 | 24°59 | 14°35 | 29°40 | 13°58 | 13° 0 | 20°34 | n.a. | S 17 |
| M18 | 17 32 45 | 22°39'06 | 2♌ 2 | 3°17 | 25°27 | 15° 9 | 4°49 | 15°42 | 25° 3 | 14°37 | 29°41 | 13°50 | 12°56 | 20°41 | n.a. | M18 |
| T 19 | 17 36 41 | 23°36'18 | 16°49 | 4°45 | 26°39 | 15°41 | 4°51 | 15°38 | 25° 6 | 14°39 | 29°42 | 13°43 | 12°53 | 20°48 | n.a. | T 19 |
| W20 | 17 40 38 | 24°33'31 | 1♍13 | 6°16 | 27°50 | 16°14 | 4°54 | 15°34 | 25° 9 | 14°41 | 29°44 | 13°39 | 12°50 | 20°54 | n.a. | W20 |
| T 21 | 17 44 34 | 25°30'43 | 15°13 | 7°51 | 29° 2 | 16°46 | 4°57 | 15°30 | 25°12 | 14°44 | 29°45 | 13°37 | 12°47 | 21° 1 | n.a. | T 21 |
| F 22 | 17 48 31 | 26°27'56 | 28°49 | 9°30 | 0♌13 | 17°19 | 5° 0 | 15°26 | 25°15 | 14°46 | 29°46 | 13°D37 | 12°44 | 21° 8 | n.a. | F 22 |
| S 23 | 17 52 28 | 27°25'10 | 12♎ 3 | 11°13 | 1°25 | 17°53 | 5° 3 | 15°22 | 25°19 | 14°48 | 29°48 | 13°R37 | 12°41 | 21°14 | n.a. | S 23 |
| S 24 | 17 56 24 | 28°22'24 | 24°58 | 12°59 | 2°36 | 18°26 | 5° 7 | 15°18 | 25°22 | 14°50 | 29°49 | 13°37 | 12°37 | 21°21 | n.a. | S 24 |
| M25 | 18 0 21 | 29°19'38 | 7♏37 | 14°48 | 3°47 | 19° 0 | 5°10 | 15°13 | 25°25 | 14°52 | 29°50 | 13°34 | 12°34 | 21°28 | n.a. | M25 |
| T 26 | 18 4 17 | 0♋16'53 | 20° 3 | 16°41 | 4°59 | 19°33 | 5°14 | 15° 9 | 25°28 | 14°54 | 29°51 | 13°30 | 12°31 | 21°35 | n.a. | T 26 |
| W27 | 18 8 14 | 1°14'09 | 2♐19 | 18°36 | 6°10 | 20° 7 | 5°18 | 15° 5 | 25°31 | 14°57 | 29°53 | 13°23 | 12°28 | 21°41 | n.a. | W27 |
| T 28 | 18 12 10 | 2°11'25 | 14°27 | 20°34 | 7°21 | 20°41 | 5°22 | 15° 1 | 25°34 | 14°59 | 29°54 | 13°12 | 12°25 | 21°48 | n.a. | T 28 |
| F 29 | 18 16 7 | 3° 8'42 | 26°30 | 22°33 | 8°32 | 21°16 | 5°26 | 14°56 | 25°37 | 15° 1 | 29°55 | 13° 0 | 12°22 | 21°55 | n.a. | F 29 |
| S 30 | 18 20 3 | 4♋ 6'00 | 8♏27 | 24♊35 | 9♌43 | 21♍50 | 5♎30 | 14♏52 | 25♉40 | 15♊ 3 | 29♉56 | 12♎47 | 12♎18 | 22♏ 2 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 21n37 | 18s37 | 4n31 | 13n56 | 4s14 | 25n17 | 1n41 | 9n50 | 0n40 | 0s31 | 1n26 | 23s 0 | 0s21 | 18n52 | 0s 8 | 21n39 | 1s 5 | 13n31 | 6s52 | 6s 6 | 5s31 | 17s17 | | n.a. |
| S 2 | 21 47 | 18 47 | 4 55 | 14 0 | 4 11 | 25 15 | 1 42 | 9 38 | 0 39 | 0 31 | 1 26 | 23 1 | 0 21 | 18 53 | 0 8 | 21 39 | 1 5 | 13 31 | 6 52 | 6 2 | 5 30 | 17 17 | | n.a. |
| S 3 | 21 56 | 18 7 | 5 5 | 14 7 | 4 7 | 25 11 | 1 42 | 9 25 | 0 37 | 0 31 | 1 26 | 23 1 | 0 22 | 18 54 | 0 8 | 21 40 | 1 5 | 13 31 | 6 52 | 5 58 | 5 29 | 17 16 | | n.a. |
| M 4 | 22 5 | 16 40 | 5 2 | 14 17 | 4 2 | 25 8 | 1 43 | 9 13 | 0 35 | 0 31 | 1 25 | 23 2 | 0 22 | 18 55 | 0 8 | 21 40 | 1 5 | 13 32 | 6 52 | 5 55 | 5 27 | 17 15 | | n.a. |
| T 5 | 22 14 | 14 30 | 4 46 | 14 28 | 3 56 | 25 3 | 1 44 | 9 1 | 0 34 | 0 31 | 1 25 | 23 2 | 0 22 | 18 56 | 0 8 | 21 40 | 1 5 | 13 32 | 6 52 | 5 52 | 5 26 | 17 14 | | n.a. |
| W 6 | 22 22 | 11 44 | 4 18 | 14 42 | 3 49 | 24 58 | 1 44 | 8 48 | 0 32 | 0 32 | 1 25 | 23 3 | 0 22 | 18 57 | 0 8 | 21 41 | 1 5 | 13 32 | 6 52 | 5 50 | 5 25 | 17 13 | | n.a. |
| T 7 | 22 30 | 8 27 | 3 38 | 14 58 | 3 41 | 24 52 | 1 45 | 8 35 | 0 31 | 0 32 | 1 24 | 23 3 | 0 22 | 18 58 | 0 8 | 21 41 | 1 5 | 13 32 | 6 52 | 5 49 | 5 24 | 17 12 | | n.a. |
| F 8 | 22 37 | 4 46 | 2 48 | 15 15 | 3 33 | 24 45 | 1 45 | 8 23 | 0 30 | 0 33 | 1 24 | 23 4 | 0 22 | 18 58 | 0 8 | 21 41 | 1 5 | 13 33 | 6 52 | 5 49 | 5 22 | 17 12 | | n.a. |
| S 9 | 22 44 | 0 49 | 1 49 | 15 35 | 3 23 | 24 38 | 1 46 | 8 10 | 0 28 | 0 33 | 1 24 | 23 4 | 0 22 | 18 59 | 0 8 | 21 41 | 1 5 | 13 33 | 6 52 | 5 49 | 5 21 | 17 11 | | n.a. |
| S 10 | 22 51 | 3n17 | 0 43 | 15 56 | 3 13 | 24 30 | 1 46 | 7 57 | 0 27 | 0 34 | 1 24 | 23 5 | 0 22 | 19 0 | 0 8 | 21 42 | 1 5 | 13 33 | 6 52 | 5 49 | 5 20 | 17 10 | | n.a. |
| M11 | 22 57 | 7 22 | 0s27 | 16 18 | 3 3 | 24 21 | 1 46 | 7 44 | 0 25 | 0 35 | 1 23 | 23 5 | 0 22 | 19 1 | 0 8 | 21 42 | 1 5 | 13 34 | 6 52 | 5 49 | 5 19 | 17 9 | | n.a. |
| T 12 | 23 3 | 11 13 | 1 38 | 16 42 | 2 52 | 24 12 | 1 47 | 7 31 | 0 24 | 0 35 | 1 23 | 23 6 | 0 23 | 19 2 | 0 8 | 21 42 | 1 5 | 13 34 | 6 52 | 5 49 | 5 17 | 17 8 | | n.a. |
| W13 | 23 9 | 14 34 | 2 45 | 17 8 | 2 40 | 24 2 | 1 47 | 7 17 | 0 22 | 0 36 | 1 23 | 23 6 | 0 23 | 19 3 | 0 8 | 21 42 | 1 5 | 13 34 | 6 52 | 5 47 | 5 16 | 17 7 | | n.a. |
| T 14 | 23 14 | 17 7 | 3 44 | 17 34 | 2 28 | 23 51 | 1 47 | 7 4 | 0 21 | 0 37 | 1 22 | 23 7 | 0 23 | 19 3 | 0 8 | 21 43 | 1 5 | 13 35 | 6 52 | 5 45 | 5 15 | 17 6 | | n.a. |
| F 15 | 23 18 | 18 35 | 4 29 | 18 1 | 2 16 | 23 39 | 1 46 | 6 50 | 0 20 | 0 38 | 1 22 | 23 7 | 0 23 | 19 4 | 0 8 | 21 43 | 1 5 | 13 35 | 6 52 | 5 42 | 5 14 | 17 6 | | n.a. |
| S 16 | 23 22 | 18 45 | 4 56 | 18 29 | 2 3 | 23 27 | 1 46 | 6 37 | 0 18 | 0 39 | 1 22 | 23 8 | 0 23 | 19 5 | 0 8 | 21 43 | 1 5 | 13 35 | 6 52 | 5 38 | 5 12 | 17 5 | | n.a. |
| S 17 | 23 26 | 17 36 | 5 2 | 18 58 | 1 50 | 23 14 | 1 46 | 6 23 | 0 17 | 0 40 | 1 21 | 23 8 | 0 23 | 19 6 | 0 8 | 21 44 | 1 5 | 13 35 | 6 52 | 5 34 | 5 11 | 17 4 | | n.a. |
| M18 | 23 30 | 15 15 | 4 48 | 19 27 | 1 37 | 23 1 | 1 46 | 6 9 | 0 16 | 0 42 | 1 21 | 23 9 | 0 23 | 19 7 | 0 8 | 21 44 | 1 5 | 13 36 | 6 52 | 5 31 | 5 10 | 17 3 | | n.a. |
| T 19 | 23 33 | 11 56 | 4 14 | 19 56 | 1 24 | 22 47 | 1 45 | 5 55 | 0 14 | 0 43 | 1 21 | 23 10 | 0 23 | 19 7 | 0 8 | 21 44 | 1 5 | 13 36 | 6 52 | 5 28 | 5 9 | 17 2 | | n.a. |
| W20 | 23 35 | 7 58 | 3 25 | 20 25 | 1 11 | 22 32 | 1 45 | 5 41 | 0 13 | 0 44 | 1 21 | 23 10 | 0 23 | 19 8 | 0 8 | 21 44 | 1 5 | 13 36 | 6 52 | 5 27 | 5 7 | 17 1 | | n.a. |
| T 21 | 23 37 | 3 40 | 2 25 | 20 54 | 0 58 | 22 16 | 1 44 | 5 27 | 0 12 | 0 46 | 1 20 | 23 11 | 0 24 | 19 9 | 0 8 | 21 45 | 1 5 | 13 36 | 6 52 | 5 26 | 5 6 | 17 0 | | n.a. |
| F 22 | 23 39 | 0s43 | 1 18 | 21 23 | 0 45 | 22 0 | 1 43 | 5 13 | 0 10 | 0 47 | 1 20 | 23 11 | 0 24 | 19 10 | 0 8 | 21 45 | 1 5 | 13 37 | 6 52 | 5 26 | 5 5 | 16 59 | | n.a. |
| S 23 | 23 41 | 4 57 | 0 8 | 21 50 | 0 32 | 21 44 | 1 43 | 4 59 | 0 9 | 0 49 | 1 20 | 23 12 | 0 24 | 19 11 | 0 8 | 21 45 | 1 5 | 13 37 | 6 52 | 5 26 | 5 4 | 16 59 | | n.a. |
| S 24 | 23 41 | 8 51 | 1n 0 | 22 17 | 0 19 | 21 27 | 1 42 | 4 45 | 0 8 | 0 50 | 1 19 | 23 13 | 0 24 | 19 11 | 0 8 | 21 45 | 1 5 | 13 37 | 6 52 | 5 26 | 5 2 | 16 58 | | n.a. |
| M25 | 23 42 | 12 15 | 2 4 | 22 42 | 0 7 | 21 9 | 1 41 | 4 30 | 0 7 | 0 52 | 1 19 | 23 13 | 0 24 | 19 12 | 0 8 | 21 46 | 1 5 | 13 37 | 6 52 | 5 25 | 5 1 | 16 57 | | n.a. |
| T 26 | 23 42 | 15 3 | 3 0 | 23 6 | 0n 5 | 20 51 | 1 40 | 4 16 | 0 5 | 0 54 | 1 19 | 23 14 | 0 24 | 19 13 | 0 8 | 21 46 | 1 5 | 13 38 | 6 52 | 5 23 | 5 0 | 16 56 | | n.a. |
| W27 | 23 42 | 17 8 | 3 47 | 23 29 | 0 16 | 20 32 | 1 39 | 4 1 | 0 4 | 0 56 | 1 19 | 23 14 | 0 24 | 19 14 | 0 8 | 21 46 | 1 5 | 13 38 | 6 52 | 5 20 | 4 59 | 16 55 | | n.a. |
| T 28 | 23 41 | 18 25 | 4 24 | 23 49 | 0 27 | 20 12 | 1 37 | 3 46 | 0 3 | 0 58 | 1 18 | 23 15 | 0 24 | 19 14 | 0 8 | 21 46 | 1 5 | 13 38 | 6 52 | 5 16 | 4 57 | 16 54 | | n.a. |
| F 29 | 23 40 | 18 52 | 4 48 | 24 7 | 0 38 | 19 52 | 1 36 | 3 32 | 0 2 | 0 59 | 1 18 | 23 15 | 0 24 | 19 15 | 0 8 | 21 47 | 1 5 | 13 38 | 6 52 | 5 11 | 4 56 | 16 53 | | n.a. |
| S 30 | 23n38 | 18s27 | 4n59 | 24n23 | 0n47 | 19n32 | 1n35 | 3n17 | 0n 1 | 1s 1 | 1n18 | 23s16 | 0s25 | 19n16 | 0s 8 | 21n47 | 1s 5 | 13n39 | 6s52 | 5s 6 | 4s55 | 16s52 | | n.a. |

Julian Day Number = 1695641.5, Delta T = 03h08m12s
Ecliptic obliquity = 23°42'03, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°02'19, Lahiri = - 4°55'19 Julian Calendar 1 June 71 BCE == Greg. Calendar 30 May 071 BCE

The year -70 astronomical counting style corresponds to year 071 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 71 BCE
# geocentric

## JULY 71 BCE (-70) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 24 0 | 5♋ 3'19 | 20♉21 | 26♊38 | 10♌54 | 22♍25 | 5♎35 | 14°R48 | 25♉43 | 15♊ 5 | 29♉58 | 12°R33 | 12♎15 | 22♉ 8 | n.a. | S 1 |
| M 2 | 18 27 57 | 6° 0'39 | 2♒13 | 28°42 | 12° 5 | 23° 0 | 5°40 | 14♉43 | 25°46 | 15° 7 | 29°59 | 12♎21 | 12°12 | 22°15 | n.a. | M 2 |
| T 3 | 18 31 53 | 6°57'59 | 14° 5 | 0♋46 | 13°16 | 23°35 | 5°45 | 14°39 | 25°49 | 15° 9 | 0♊ 0 | 12°10 | 12° 9 | 22°22 | n.a. | T 3 |
| W 4 | 18 35 50 | 7°55'21 | 25°59 | 2°51 | 14°27 | 24°10 | 5°49 | 14°34 | 25°52 | 15°12 | 0° 1 | 12° 2 | 12° 6 | 22°28 | n.a. | W 4 |
| T 5 | 18 39 46 | 8°52'45 | 7♓59 | 4°57 | 15°37 | 24°45 | 5°55 | 14°30 | 25°54 | 15°14 | 0° 2 | 11°57 | 12° 2 | 22°35 | n.a. | T 5 |
| F 6 | 18 43 43 | 9°50'09 | 20° 7 | 7° 2 | 16°48 | 25°21 | 6° 0 | 14°25 | 25°57 | 15°16 | 0° 4 | 11°54 | 11°59 | 22°42 | n.a. | F 6 |
| S 7 | 18 47 39 | 10°47'35 | 2♈30 | 9° 7 | 17°59 | 25°56 | 6° 5 | 14°21 | 26° 0 | 15°18 | 0° 5 | 11°53 | 11°56 | 22°49 | n.a. | S 7 |
| S 8 | 18 51 36 | 11°45'02 | 15°11 | 11°11 | 19° 9 | 26°32 | 6°11 | 14°16 | 26° 3 | 15°20 | 0° 6 | 11°53 | 11°53 | 22°55 | n.a. | S 8 |
| M 9 | 18 55 32 | 12°42'31 | 28°15 | 13°15 | 20°20 | 27° 8 | 6°17 | 14°12 | 26° 5 | 15°22 | 0° 7 | 11°52 | 11°50 | 23° 2 | n.a. | M 9 |
| T 10 | 18 59 29 | 13°40'01 | 11♉46 | 15°17 | 21°30 | 27°44 | 6°23 | 14° 8 | 26° 8 | 15°24 | 0° 8 | 11°51 | 11°47 | 23° 9 | n.a. | T 10 |
| W11 | 19 3 26 | 14°37'33 | 25°46 | 17°19 | 22°41 | 28°20 | 6°29 | 14° 3 | 26°11 | 15°26 | 0° 9 | 11°47 | 11°43 | 23°15 | n.a. | W11 |
| T 12 | 19 7 22 | 15°35'06 | 10♊15 | 19°20 | 23°51 | 28°57 | 6°35 | 13°59 | 26°13 | 15°28 | 0°10 | 11°40 | 11°40 | 23°22 | n.a. | T 12 |
| F 13 | 19 11 19 | 16°32'41 | 25°10 | 21°19 | 25° 1 | 29°33 | 6°41 | 13°54 | 26°16 | 15°30 | 0°11 | 11°31 | 11°37 | 23°29 | n.a. | F 13 |
| S 14 | 19 15 15 | 17°30'17 | 10♋22 | 23°17 | 26°12 | 0♎10 | 6°48 | 13°50 | 26°18 | 15°32 | 0°12 | 11°20 | 11°34 | 23°36 | n.a. | S 14 |
| S 15 | 19 19 12 | 18°27'55 | 25°41 | 25°13 | 27°22 | 0°47 | 6°54 | 13°45 | 26°21 | 15°34 | 0°13 | 11°10 | 11°31 | 23°42 | n.a. | S 15 |
| M16 | 19 23 8 | 19°25'34 | 10♌56 | 27° 9 | 28°32 | 1°24 | 7° 1 | 13°41 | 26°23 | 15°36 | 0°14 | 11° 0 | 11°28 | 23°49 | n.a. | M16 |
| T 17 | 19 27 5 | 20°23'14 | 25°56 | 29° 3 | 29°42 | 2° 1 | 7° 8 | 13°36 | 26°26 | 15°38 | 0°15 | 10°52 | 11°24 | 23°56 | n.a. | T 17 |
| W18 | 19 31 1 | 21°20'55 | 10♍33 | 0♌55 | 0♍52 | 2°38 | 7°15 | 13°32 | 26°28 | 15°39 | 0°16 | 10°47 | 11°21 | 24° 3 | n.a. | W18 |
| T 19 | 19 34 58 | 22°18'37 | 24°43 | 2°46 | 2° 2 | 3°16 | 7°22 | 13°27 | 26°31 | 15°41 | 0°17 | 10°44 | 11°18 | 24° 9 | n.a. | T 19 |
| F 20 | 19 38 55 | 23°16'21 | 8♎24 | 4°35 | 3°11 | 3°54 | 7°29 | 13°23 | 26°33 | 15°43 | 0°18 | 10°D44 | 11°15 | 24°16 | n.a. | F 20 |
| S 21 | 19 42 51 | 24°14'06 | 21°40 | 6°24 | 4°21 | 4°31 | 7°37 | 13°19 | 26°35 | 15°45 | 0°19 | 10°R44 | 11°12 | 24°23 | n.a. | S 21 |
| S 22 | 19 46 48 | 25°11'52 | 4♏32 | 8°10 | 5°31 | 5° 9 | 7°44 | 13°14 | 26°37 | 15°47 | 0°20 | 10°43 | 11° 8 | 24°29 | n.a. | S 22 |
| M23 | 19 50 44 | 26° 9'39 | 17° 6 | 9°56 | 6°40 | 5°47 | 7°52 | 13°10 | 26°40 | 15°49 | 0°21 | 10°42 | 11° 5 | 24°36 | n.a. | M23 |
| T 24 | 19 54 41 | 27° 7'28 | 29°25 | 11°40 | 7°50 | 6°25 | 8° 0 | 13° 6 | 26°42 | 15°50 | 0°22 | 10°38 | 11° 2 | 24°43 | n.a. | T 24 |
| W25 | 19 58 37 | 28° 5'18 | 11♐33 | 13°22 | 8°59 | 7° 4 | 8° 8 | 13° 1 | 26°44 | 15°52 | 0°23 | 10°31 | 10°59 | 24°50 | n.a. | W25 |
| T 26 | 20 2 34 | 29° 3'09 | 23°33 | 15° 3 | 10° 8 | 7°42 | 8°16 | 12°57 | 26°46 | 15°54 | 0°24 | 10°22 | 10°56 | 24°56 | n.a. | T 26 |
| F 27 | 20 6 30 | 0♑ 1'02 | 5♉29 | 16°43 | 11°17 | 8°21 | 8°24 | 12°53 | 26°48 | 15°56 | 0°24 | 10°10 | 10°53 | 25° 3 | n.a. | F 27 |
| S 28 | 20 10 27 | 0°58'56 | 17°23 | 18°22 | 12°26 | 8°59 | 8°32 | 12°49 | 26°50 | 15°57 | 0°25 | 9°58 | 10°49 | 25°10 | n.a. | S 28 |
| S 29 | 20 14 24 | 1°56'52 | 29°15 | 19°59 | 13°35 | 9°38 | 8°41 | 12°45 | 26°52 | 15°59 | 0°26 | 9°45 | 10°46 | 25°16 | n.a. | S 29 |
| M30 | 20 18 20 | 2°54'50 | 11♒ 8 | 21°35 | 14°44 | 10°17 | 8°49 | 12°41 | 26°54 | 16° 1 | 0°27 | 9°33 | 10°43 | 25°23 | n.a. | M30 |
| T 31 | 20 22 17 | 3♑52'49 | 23♒ 3 | 23♑ 9 | 15♍53 | 10♎56 | 8♎58 | 12♉37 | 26♉56 | 16♊ 2 | 0♊27 | 9♎23 | 10♎40 | 25♉30 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| S 1 | 23n36 | 17s14 | 4n57 | 24n36 | 0n57 | 19n11 | 1n33 | 3n 2 | 0s 1 | 1s 4 | 1n17 | 23s17 | 0s25 | 19n16 | 0s 8 | 21n47 | 1s 5 | 13n39 | 6s52 | 5s 1 | 4s54 | 16s51 | | | n.a. |
| M 2 | 23 34 | 15 18 | 4 42 | 24 47 | 1 5 | 18 49 | 1 32 | 2 47 | 0 2 | 1 6 | 1 17 | 23 17 | 0 25 | 19 17 | 0 8 | 21 47 | 1 5 | 13 39 | 6 52 | 4 56 | 4 52 | 16 50 | | | n.a. |
| T 3 | 23 31 | 12 42 | 4 15 | 24 55 | 1 13 | 18 27 | 1 30 | 2 32 | 0 3 | 1 8 | 1 17 | 23 18 | 0 25 | 19 18 | 0 8 | 21 47 | 1 5 | 13 39 | 6 52 | 4 52 | 4 51 | 16 50 | | | n.a. |
| W 4 | 23 28 | 9 35 | 3 37 | 25 0 | 1 20 | 18 5 | 1 28 | 2 17 | 0 4 | 1 10 | 1 17 | 23 18 | 0 25 | 19 19 | 0 8 | 21 48 | 1 5 | 13 39 | 6 52 | 4 48 | 4 50 | 16 49 | | | n.a. |
| T 5 | 23 24 | 6 4 | 2 49 | 25 2 | 1 26 | 17 42 | 1 27 | 2 2 | 0 5 | 1 12 | 1 16 | 23 19 | 0 25 | 19 19 | 0 8 | 21 48 | 1 5 | 13 40 | 6 52 | 4 46 | 4 49 | 16 48 | | | n.a. |
| F 6 | 23 20 | 2 14 | 1 52 | 25 2 | 1 31 | 17 19 | 1 25 | 1 46 | 0 6 | 1 15 | 1 16 | 23 20 | 0 25 | 19 20 | 0 8 | 21 48 | 1 5 | 13 40 | 6 53 | 4 45 | 4 47 | 16 47 | | | n.a. |
| S 7 | 23 15 | 1n45 | 0 49 | 24 58 | 1 36 | 16 55 | 1 23 | 1 31 | 0 7 | 1 17 | 1 16 | 23 20 | 0 25 | 19 21 | 0 8 | 21 48 | 1 5 | 13 40 | 6 53 | 4 45 | 4 46 | 16 46 | | | n.a. |
| S 8 | 23 10 | 5 46 | 0s17 | 24 53 | 1 39 | 16 31 | 1 21 | 1 16 | 0 9 | 1 20 | 1 15 | 23 21 | 0 25 | 19 21 | 0 8 | 21 49 | 1 5 | 13 40 | 6 53 | 4 45 | 4 45 | 16 45 | | | n.a. |
| M 9 | 23 5 | 9 38 | 1 25 | 24 44 | 1 43 | 16 6 | 1 18 | 1 0 | 0 10 | 1 22 | 1 15 | 23 21 | 0 25 | 19 22 | 0 8 | 21 49 | 1 5 | 13 40 | 6 53 | 4 45 | 4 44 | 16 44 | | | n.a. |
| T 10 | 22 59 | 13 8 | 2 31 | 24 33 | 1 45 | 15 41 | 1 16 | 0 45 | 0 11 | 1 25 | 1 15 | 23 22 | 0 25 | 19 23 | 0 8 | 21 49 | 1 5 | 13 40 | 6 53 | 4 44 | 4 42 | 16 43 | | | n.a. |
| W11 | 22 53 | 16 1 | 3 30 | 24 20 | 1 47 | 15 16 | 1 14 | 0 29 | 0 12 | 1 28 | 1 15 | 23 22 | 0 26 | 19 23 | 0 8 | 21 49 | 1 5 | 13 41 | 6 53 | 4 42 | 4 41 | 16 42 | | | n.a. |
| T 12 | 22 47 | 17 59 | 4 17 | 24 4 | 1 48 | 14 50 | 1 11 | 0 14 | 0 13 | 1 30 | 1 14 | 23 23 | 0 26 | 19 24 | 0 8 | 21 49 | 1 5 | 13 41 | 6 53 | 4 40 | 4 40 | 16 41 | | | n.a. |
| F 13 | 22 40 | 18 48 | 4 49 | 23 46 | 1 48 | 14 24 | 1 9 | 0s 2 | 0 14 | 1 33 | 1 14 | 23 24 | 0 26 | 19 24 | 0 8 | 21 50 | 1 5 | 13 41 | 6 53 | 4 36 | 4 39 | 16 40 | | | n.a. |
| S 14 | 22 32 | 18 18 | 5 1 | 23 26 | 1 48 | 13 58 | 1 6 | 0 18 | 0 15 | 1 36 | 1 14 | 23 24 | 0 26 | 19 25 | 0 8 | 21 50 | 1 5 | 13 41 | 6 53 | 4 32 | 4 37 | 16 39 | | | n.a. |
| S 15 | 22 25 | 16 28 | 4 51 | 23 4 | 1 47 | 13 31 | 1 4 | 0 34 | 0 16 | 1 39 | 1 14 | 23 25 | 0 26 | 19 26 | 0 8 | 21 50 | 1 5 | 13 41 | 6 53 | 4 28 | 4 36 | 16 38 | | | n.a. |
| M16 | 22 17 | 13 30 | 4 21 | 22 41 | 1 45 | 13 4 | 1 1 | 0 49 | 0 17 | 1 42 | 1 13 | 23 25 | 0 26 | 19 26 | 0 8 | 21 50 | 1 5 | 13 41 | 6 53 | 4 24 | 4 35 | 16 37 | | | n.a. |
| T 17 | 22 8 | 9 40 | 3 33 | 22 15 | 1 43 | 12 36 | 0 58 | 1 5 | 0 18 | 1 45 | 1 13 | 23 26 | 0 26 | 19 27 | 0 8 | 21 50 | 1 5 | 13 41 | 6 53 | 4 21 | 4 34 | 16 36 | | | n.a. |
| W18 | 21 59 | 5 21 | 2 32 | 21 48 | 1 41 | 12 9 | 0 55 | 1 21 | 0 19 | 1 48 | 1 13 | 23 26 | 0 26 | 19 27 | 0 8 | 21 51 | 1 5 | 13 42 | 6 53 | 4 19 | 4 32 | 16 36 | | | n.a. |
| T 19 | 21 50 | 0 51 | 1 24 | 21 20 | 1 38 | 11 41 | 0 52 | 1 37 | 0 20 | 1 51 | 1 13 | 23 27 | 0 26 | 19 28 | 0 8 | 21 51 | 1 5 | 13 42 | 6 53 | 4 18 | 4 31 | 16 35 | | | n.a. |
| F 20 | 21 40 | 3s33 | 0 12 | 20 51 | 1 34 | 11 12 | 0 49 | 1 53 | 0 21 | 1 54 | 1 12 | 23 27 | 0 26 | 19 28 | 0 8 | 21 51 | 1 5 | 13 42 | 6 53 | 4 17 | 4 30 | 16 34 | | | n.a. |
| S 21 | 21 30 | 7 39 | 0n58 | 20 20 | 1 30 | 10 44 | 0 46 | 2 9 | 0 22 | 1 57 | 1 12 | 23 28 | 0 26 | 19 29 | 0 8 | 21 51 | 1 5 | 13 42 | 6 53 | 4 17 | 4 29 | 16 33 | | | n.a. |
| S 22 | 21 20 | 11 15 | 2 3 | 19 48 | 1 26 | 10 15 | 0 43 | 2 25 | 0 23 | 2 0 | 1 12 | 23 28 | 0 26 | 19 29 | 0 8 | 21 51 | 1 5 | 13 42 | 6 54 | 4 17 | 4 27 | 16 32 | | | n.a. |
| M23 | 21 9 | 14 15 | 3 0 | 19 15 | 1 21 | 9 46 | 0 39 | 2 41 | 0 24 | 2 4 | 1 12 | 23 29 | 0 27 | 19 30 | 0 8 | 21 52 | 1 5 | 13 42 | 6 54 | 4 17 | 4 26 | 16 31 | | | n.a. |
| T 24 | 20 58 | 16 32 | 3 48 | 18 42 | 1 16 | 9 17 | 0 36 | 2 57 | 0 25 | 2 7 | 1 11 | 23 29 | 0 27 | 19 30 | 0 7 | 21 52 | 1 5 | 13 42 | 6 54 | 4 15 | 4 25 | 16 30 | | | n.a. |
| W25 | 20 46 | 18 3 | 4 24 | 18 7 | 1 11 | 8 47 | 0 32 | 3 14 | 0 26 | 2 10 | 1 11 | 23 30 | 0 27 | 19 31 | 0 7 | 21 52 | 1 5 | 13 42 | 6 54 | 4 12 | 4 24 | 16 29 | | | n.a. |
| T 26 | 20 34 | 18 44 | 4 49 | 17 32 | 1 5 | 8 18 | 0 29 | 3 30 | 0 27 | 2 14 | 1 11 | 23 30 | 0 27 | 19 31 | 0 7 | 21 52 | 1 5 | 13 42 | 6 54 | 4 9 | 4 22 | 16 28 | | | n.a. |
| F 27 | 20 22 | 18 35 | 5 1 | 16 56 | 0 59 | 7 48 | 0 25 | 3 46 | 0 28 | 2 17 | 1 11 | 23 31 | 0 27 | 19 32 | 0 7 | 21 52 | 1 5 | 13 43 | 6 54 | 4 4 | 4 21 | 16 27 | | | n.a. |
| S 28 | 20 9 | 17 37 | 4 59 | 16 19 | 0 53 | 7 18 | 0 22 | 4 2 | 0 29 | 2 21 | 1 10 | 23 31 | 0 27 | 19 32 | 0 7 | 21 52 | 1 5 | 13 43 | 6 54 | 3 59 | 4 20 | 16 26 | | | n.a. |
| S 29 | 19 57 | 15 53 | 4 45 | 15 43 | 0 46 | 6 48 | 0 18 | 4 19 | 0 30 | 2 24 | 1 10 | 23 32 | 0 27 | 19 33 | 0 7 | 21 53 | 1 5 | 13 43 | 6 54 | 3 54 | 4 18 | 16 25 | | | n.a. |
| M30 | 19 43 | 13 29 | 4 18 | 15 5 | 0 39 | 6 17 | 0 14 | 4 35 | 0 30 | 2 28 | 1 10 | 23 32 | 0 27 | 19 33 | 0 7 | 21 53 | 1 5 | 13 43 | 6 54 | 3 50 | 4 17 | 16 24 | | | n.a. |
| T 31 | 19n30 | 10s32 | 3n39 | 14n27 | 0n32 | 5n47 | 0n10 | 4s51 | 0s31 | 2s32 | 1n10 | 23s33 | 0s27 | 19n34 | 0s 7 | 21n53 | 1s 5 | 13n43 | 6s54 | 3s46 | 4s16 | 16s23 | | | n.a. |

Julian Day Number = 1695671.5, Delta T = 03h08m11s
Ecliptic obliquity = 23°42'03, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°02'15, Lahiri = - 4°55'15 Julian Calendar 1 July 71 BCE == Greg. Calendar 29 June 071 BCE

The year -70 astronomical counting style corresponds to year 071 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 71 BCE
# geocentric

## AUGUST 71 BCE (-70) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 20 26 13 | 4♌50'50 | 5♓ 2 | 24♌42 | 17♍ 2 | 11♎35 | 9♎ 7 | 12°R33 | 26♉57 | 16♊ 4 | 0♊28 | 9°R16 | 10♎37 | 25♏37 | n.a. | W 1 |
| T 2 | 20 30 10 | 5°48'53 | 17° 7 | 26°14 | 18°10 | 12°14 | 9°16 | 12♏29 | 26°59 | 16° 6 | 0°29 | 9♎11 | 10°34 | 25°43 | n.a. | T 2 |
| F 3 | 20 34 6 | 6°46'58 | 29°21 | 27°45 | 19°19 | 12°54 | 9°25 | 12°25 | 27° 1 | 16° 7 | 0°30 | 9° 9 | 10°30 | 25°50 | n.a. | F 3 |
| S 4 | 20 38 3 | 7°45'05 | 11♈47 | 29°14 | 20°27 | 13°33 | 9°34 | 12°21 | 27° 3 | 16° 9 | 0°30 | 9°D 8 | 10°27 | 25°57 | n.a. | S 4 |
| S 5 | 20 41 59 | 8°43'14 | 24°28 | 0♍42 | 21°35 | 14°13 | 9°43 | 12°17 | 27° 4 | 16°10 | 0°31 | 9° 9 | 10°24 | 26° 4 | n.a. | S 5 |
| M 6 | 20 45 56 | 9°41'25 | 7♉30 | 2° 9 | 22°43 | 14°53 | 9°52 | 12°13 | 27° 6 | 16°12 | 0°32 | 9°R 9 | 10°21 | 26°10 | n.a. | M 6 |
| T 7 | 20 49 53 | 10°39'39 | 20°55 | 3°34 | 23°51 | 15°33 | 10° 2 | 12°10 | 27° 7 | 16°13 | 0°32 | 9° 9 | 10°18 | 26°17 | n.a. | T 7 |
| W 8 | 20 53 49 | 11°37'54 | 4♊47 | 4°58 | 24°59 | 16°13 | 10°11 | 12° 6 | 27° 9 | 16°15 | 0°33 | 9° 7 | 10°14 | 26°24 | n.a. | W 8 |
| T 9 | 20 57 46 | 12°36'12 | 19° 5 | 6°21 | 26° 7 | 16°53 | 10°21 | 12° 3 | 27°10 | 16°16 | 0°33 | 9° 2 | 10°11 | 26°30 | n.a. | T 9 |
| F 10 | 21 1 42 | 13°34'32 | 3♋48 | 7°42 | 27°15 | 17°33 | 10°31 | 11°59 | 27°12 | 16°17 | 0°34 | 8°56 | 10° 8 | 26°37 | n.a. | F 10 |
| S 11 | 21 5 39 | 14°32'54 | 18°50 | 9° 1 | 28°22 | 18°13 | 10°40 | 11°56 | 27°13 | 16°19 | 0°34 | 8°48 | 10° 5 | 26°44 | n.a. | S 11 |
| S 12 | 21 9 35 | 15°31'18 | 4♌ 3 | 10°19 | 29°30 | 18°54 | 10°50 | 11°52 | 27°14 | 16°20 | 0°35 | 8°40 | 10° 2 | 26°51 | n.a. | S 12 |
| M13 | 21 13 32 | 16°29'44 | 19°16 | 11°36 | 0♎37 | 19°34 | 11° 0 | 11°49 | 27°16 | 16°21 | 0°35 | 8°32 | 9°59 | 26°57 | n.a. | M13 |
| T 14 | 21 17 28 | 17°28'12 | 4♍18 | 12°51 | 1°44 | 20°15 | 11°11 | 11°46 | 27°17 | 16°23 | 0°36 | 8°27 | 9°55 | 27° 4 | n.a. | T 14 |
| W15 | 21 21 25 | 18°26'42 | 19° 1 | 14° 4 | 2°51 | 20°56 | 11°21 | 11°43 | 27°18 | 16°24 | 0°36 | 8°23 | 9°52 | 27°11 | n.a. | W15 |
| T 16 | 21 25 22 | 19°25'14 | 3♎19 | 15°15 | 3°58 | 21°37 | 11°31 | 11°40 | 27°19 | 16°25 | 0°37 | 8°D21 | 9°49 | 27°17 | n.a. | T 16 |
| F 17 | 21 29 18 | 20°23'47 | 17° 9 | 16°25 | 5° 5 | 22°18 | 11°41 | 11°37 | 27°20 | 16°26 | 0°37 | 8°22 | 9°46 | 27°24 | n.a. | F 17 |
| S 18 | 21 33 15 | 21°22'22 | 0♏31 | 17°33 | 6°11 | 22°59 | 11°52 | 11°34 | 27°21 | 16°28 | 0°37 | 8°23 | 9°43 | 27°31 | n.a. | S 18 |
| S 19 | 21 37 11 | 22°20'59 | 13°27 | 18°38 | 7°18 | 23°40 | 12° 3 | 11°31 | 27°22 | 16°29 | 0°38 | 8°24 | 9°39 | 27°38 | n.a. | S 19 |
| M20 | 21 41 8 | 23°19'38 | 26° 3 | 19°41 | 8°24 | 24°21 | 12°13 | 11°28 | 27°23 | 16°30 | 0°38 | 8°R24 | 9°36 | 27°44 | n.a. | M20 |
| T 21 | 21 45 4 | 24°18'19 | 8♐21 | 20°42 | 9°30 | 25° 3 | 12°24 | 11°25 | 27°24 | 16°31 | 0°38 | 8°23 | 9°33 | 27°51 | n.a. | T 21 |
| W22 | 21 49 1 | 25°17'01 | 20°27 | 21°40 | 10°36 | 25°44 | 12°35 | 11°23 | 27°25 | 16°32 | 0°39 | 8°20 | 9°30 | 27°58 | n.a. | W22 |
| T 23 | 21 52 57 | 26°15'45 | 2♑24 | 22°36 | 11°42 | 26°26 | 12°46 | 11°20 | 27°25 | 16°33 | 0°39 | 8°15 | 9°27 | 28° 4 | n.a. | T 23 |
| F 24 | 21 56 54 | 27°14'31 | 14°17 | 23°29 | 12°47 | 27° 8 | 12°57 | 11°18 | 27°26 | 16°34 | 0°39 | 8° 9 | 9°24 | 28°11 | n.a. | F 24 |
| S 25 | 22 0 50 | 28°13'19 | 26° 9 | 24°18 | 13°53 | 27°49 | 13° 8 | 11°15 | 27°27 | 16°35 | 0°39 | 8° 1 | 9°20 | 28°18 | n.a. | S 25 |
| S 26 | 22 4 47 | 29°12'09 | 8♒ 3 | 25° 4 | 14°58 | 28°31 | 13°19 | 11°13 | 27°27 | 16°36 | 0°40 | 7°54 | 9°17 | 28°25 | n.a. | S 26 |
| M27 | 22 8 44 | 0♍11'01 | 19°59 | 25°46 | 16° 3 | 29°13 | 13°30 | 11°11 | 27°28 | 16°37 | 0°40 | 7°47 | 9°14 | 28°31 | n.a. | M27 |
| T 28 | 22 12 40 | 1° 9'55 | 2♓ 1 | 26°25 | 17° 7 | 29°55 | 13°41 | 11° 9 | 27°28 | 16°38 | 0°40 | 7°41 | 9°11 | 28°38 | n.a. | T 28 |
| W29 | 22 16 37 | 2° 8'51 | 14°10 | 26°59 | 18°12 | 0♏38 | 13°53 | 11° 7 | 27°29 | 16°39 | 0°40 | 7°37 | 9° 8 | 28°45 | n.a. | W29 |
| T 30 | 22 20 33 | 3° 7'49 | 26°26 | 27°28 | 19°16 | 1°20 | 14° 4 | 11° 5 | 27°29 | 16°39 | 0°40 | 7°35 | 9° 5 | 28°51 | n.a. | T 30 |
| F 31 | 22 24 30 | 4♍ 6'50 | 8♈52 | 27♍52 | 20♎20 | 2♏ 2 | 14♎16 | 11♏ 3 | 27♉29 | 16♊40 | 0♊40 | 7°D34 | 9♎ 1 | 28♏58 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| W 1 | 19n16 | 7s 7 | 2n51 | 13n49 | 0n25 | 5n16 | 0n 6 | 5s 7 | 0s32 | 2s35 | 1n10 | 23s33 | 0s27 | 19n34 | 0s 7 | 21n53 | 1s 5 | 13n43 | 6s54 | 3s43 | 4s15 | 16s22 | | | n.a. |
| T 2 | 19 1 | 3 23 | 1 55 | 13 11 | 0 18 | 4 46 | 0 2 | 5 24 | 0 33 | 2 39 | 1 9 | 23 34 | 0 27 | 19 35 | 0 7 | 21 53 | 1 5 | 13 43 | 6 55 | 3 41 | 4 13 | 16 21 | | | n.a. |
| F 3 | 18 47 | 0n32 | 0 52 | 12 33 | 0 10 | 4 15 | 0s 2 | 5 40 | 0 34 | 2 43 | 1 9 | 23 34 | 0 27 | 19 35 | 0 7 | 21 53 | 1 5 | 13 43 | 6 55 | 3 40 | 4 12 | 16 20 | | | n.a. |
| S 4 | 18 32 | 4 29 | 0s14 | 11 54 | 0 2 | 3 44 | 0 6 | 5 56 | 0 35 | 2 47 | 1 9 | 23 35 | 0 27 | 19 35 | 0 7 | 21 53 | 1 5 | 13 43 | 6 55 | 3 40 | 4 11 | 16 19 | | | n.a. |
| S 5 | 18 17 | 8 20 | 1 21 | 11 15 | 0s 6 | 3 13 | 0 10 | 6 13 | 0 36 | 2 50 | 1 9 | 23 35 | 0 28 | 19 36 | 0 7 | 21 54 | 1 5 | 13 43 | 6 55 | 3 40 | 4 10 | 16 18 | | | n.a. |
| M 6 | 18 1 | 11 52 | 2 26 | 10 37 | 0 14 | 2 42 | 0 14 | 6 29 | 0 36 | 2 54 | 1 8 | 23 35 | 0 28 | 19 36 | 0 7 | 21 54 | 1 5 | 13 43 | 6 55 | 3 40 | 4 8 | 16 17 | | | n.a. |
| T 7 | 17 45 | 14 54 | 3 24 | 9 58 | 0 22 | 2 11 | 0 19 | 6 45 | 0 37 | 2 58 | 1 8 | 23 36 | 0 28 | 19 37 | 0 7 | 21 54 | 1 5 | 13 43 | 6 55 | 3 40 | 4 7 | 16 16 | | | n.a. |
| W 8 | 17 29 | 17 11 | 4 13 | 9 19 | 0 30 | 1 40 | 0 23 | 7 2 | 0 38 | 3 2 | 1 8 | 23 36 | 0 28 | 19 37 | 0 7 | 21 54 | 1 5 | 13 43 | 6 55 | 3 39 | 4 6 | 16 15 | | | n.a. |
| T 9 | 17 13 | 18 28 | 4 48 | 8 41 | 0 39 | 1 8 | 0 27 | 7 18 | 0 39 | 3 6 | 1 8 | 23 37 | 0 28 | 19 37 | 0 7 | 21 54 | 1 5 | 13 43 | 6 55 | 3 37 | 4 5 | 16 14 | | | n.a. |
| F 10 | 16 56 | 18 34 | 5 5 | 8 3 | 0 47 | 0 37 | 0 32 | 7 34 | 0 40 | 3 10 | 1 8 | 23 37 | 0 28 | 19 38 | 0 7 | 21 54 | 1 5 | 13 43 | 6 55 | 3 35 | 4 3 | 16 13 | | | n.a. |
| S 11 | 16 39 | 17 23 | 5 1 | 7 25 | 0 56 | 0 6 | 0 36 | 7 51 | 0 41 | 3 14 | 1 7 | 23 37 | 0 28 | 19 38 | 0 7 | 21 54 | 1 5 | 13 43 | 6 55 | 3 32 | 4 2 | 16 12 | | | n.a. |
| S 12 | 16 21 | 14 58 | 4 37 | 6 47 | 1 4 | 0s25 | 0 41 | 8 7 | 0 41 | 3 18 | 1 7 | 23 38 | 0 28 | 19 38 | 0 7 | 21 54 | 1 5 | 13 43 | 6 56 | 3 28 | 4 1 | 16 11 | | | n.a. |
| M13 | 16 4 | 11 32 | 3 53 | 6 10 | 1 13 | 0 56 | 0 45 | 8 23 | 0 42 | 3 23 | 1 7 | 23 38 | 0 28 | 19 38 | 0 7 | 21 55 | 1 5 | 13 43 | 6 56 | 3 25 | 4 0 | 16 10 | | | n.a. |
| T 14 | 15 46 | 7 22 | 2 53 | 5 33 | 1 21 | 1 28 | 0 50 | 8 39 | 0 43 | 3 27 | 1 7 | 23 38 | 0 28 | 19 39 | 0 7 | 21 55 | 1 5 | 13 43 | 6 56 | 3 23 | 3 58 | 16 9 | | | n.a. |
| W15 | 15 28 | 2 49 | 1 42 | 4 57 | 1 30 | 1 59 | 0 55 | 8 56 | 0 44 | 3 31 | 1 7 | 23 39 | 0 28 | 19 39 | 0 7 | 21 55 | 1 5 | 13 43 | 6 56 | 3 22 | 3 57 | 16 8 | | | n.a. |
| T 16 | 15 9 | 1s45 | 0 27 | 4 21 | 1 39 | 2 30 | 0 59 | 9 12 | 0 44 | 3 35 | 1 6 | 23 39 | 0 28 | 19 39 | 0 7 | 21 55 | 1 5 | 13 43 | 6 56 | 3 21 | 3 56 | 16 7 | | | n.a. |
| F 17 | 14 51 | 6 5 | 0n47 | 3 46 | 1 47 | 3 1 | 1 4 | 9 28 | 0 45 | 3 39 | 1 6 | 23 39 | 0 28 | 19 39 | 0 7 | 21 55 | 1 5 | 13 43 | 6 56 | 3 21 | 3 55 | 16 6 | | | n.a. |
| S 18 | 14 32 | 9 57 | 1 57 | 3 12 | 1 56 | 3 32 | 1 9 | 9 44 | 0 46 | 3 44 | 1 6 | 23 40 | 0 28 | 19 40 | 0 7 | 21 55 | 1 5 | 13 43 | 6 56 | 3 21 | 3 53 | 16 5 | | | n.a. |
| S 19 | 14 13 | 13 13 | 2 58 | 2 38 | 2 4 | 4 3 | 1 14 | 10 0 | 0 47 | 3 48 | 1 6 | 23 40 | 0 28 | 19 40 | 0 7 | 21 55 | 1 5 | 13 43 | 6 56 | 3 22 | 3 52 | 16 4 | | | n.a. |
| M20 | 13 53 | 15 46 | 3 49 | 2 6 | 2 13 | 4 34 | 1 19 | 10 16 | 0 47 | 3 52 | 1 6 | 23 40 | 0 28 | 19 40 | 0 7 | 21 55 | 1 6 | 13 43 | 6 56 | 3 22 | 3 51 | 16 3 | | | n.a. |
| T 21 | 13 34 | 17 32 | 4 28 | 1 34 | 2 21 | 5 5 | 1 23 | 10 32 | 0 48 | 3 57 | 1 6 | 23 41 | 0 28 | 19 40 | 0 7 | 21 55 | 1 6 | 13 43 | 6 56 | 3 22 | 3 49 | 16 2 | | | n.a. |
| W22 | 13 14 | 18 27 | 4 54 | 1 4 | 2 29 | 5 35 | 1 28 | 10 48 | 0 49 | 4 1 | 1 5 | 23 41 | 0 29 | 19 41 | 0 7 | 21 55 | 1 6 | 13 43 | 6 57 | 3 20 | 3 48 | 16 1 | | | n.a. |
| T 23 | 12 54 | 18 33 | 5 8 | 0 34 | 2 37 | 6 6 | 1 33 | 11 4 | 0 49 | 4 6 | 1 5 | 23 41 | 0 29 | 19 41 | 0 7 | 21 56 | 1 6 | 13 43 | 6 57 | 3 18 | 3 47 | 16 0 | | | n.a. |
| F 24 | 12 34 | 17 50 | 5 7 | 0 6 | 2 45 | 6 36 | 1 38 | 11 20 | 0 50 | 4 10 | 1 5 | 23 41 | 0 29 | 19 41 | 0 7 | 21 56 | 1 6 | 13 43 | 6 57 | 3 16 | 3 46 | 15 59 | | | n.a. |
| S 25 | 12 13 | 16 20 | 4 54 | 0s20 | 2 52 | 7 7 | 1 43 | 11 36 | 0 51 | 4 15 | 1 5 | 23 42 | 0 29 | 19 41 | 0 7 | 21 56 | 1 6 | 13 43 | 6 57 | 3 13 | 3 44 | 15 58 | | | n.a. |
| S 26 | 11 53 | 14 8 | 4 28 | 0 45 | 2 59 | 7 37 | 1 48 | 11 52 | 0 51 | 4 19 | 1 5 | 23 42 | 0 29 | 19 41 | 0 7 | 21 56 | 1 6 | 13 43 | 6 57 | 3 10 | 3 43 | 15 57 | | | n.a. |
| M27 | 11 32 | 11 20 | 3 50 | 1 9 | 3 6 | 8 7 | 1 53 | 12 8 | 0 52 | 4 24 | 1 4 | 23 42 | 0 29 | 19 41 | 0 7 | 21 56 | 1 6 | 13 43 | 6 57 | 3 7 | 3 42 | 15 55 | | | n.a. |
| T 28 | 11 11 | 8 3 | 3 1 | 1 30 | 3 12 | 8 36 | 1 58 | 12 23 | 0 53 | 4 28 | 1 4 | 23 42 | 0 29 | 19 41 | 0 7 | 21 56 | 1 6 | 13 43 | 6 57 | 3 5 | 3 41 | 15 54 | | | n.a. |
| W29 | 10 49 | 4 23 | 2 4 | 1 49 | 3 18 | 9 6 | 2 3 | 12 39 | 0 53 | 4 33 | 1 4 | 23 43 | 0 29 | 19 42 | 0 7 | 21 56 | 1 6 | 13 42 | 6 57 | 3 3 | 3 39 | 15 53 | | | n.a. |
| T 30 | 10 28 | 0 30 | 1 0 | 2 5 | 3 24 | 9 35 | 2 8 | 12 54 | 0 54 | 4 38 | 1 4 | 23 43 | 0 29 | 19 42 | 0 7 | 21 56 | 1 6 | 13 42 | 6 57 | 3 2 | 3 38 | 15 52 | | | n.a. |
| F 31 | 10n 6 | 3n27 | 0s 7 | 2s20 | 3s29 | 10s 5 | 2s13 | 13s10 | 0s55 | 4s42 | 1n 4 | 23s43 | 0s29 | 19n42 | 0s 7 | 21n56 | 1s 6 | 13n42 | 6s58 | 3s 2 | 3s37 | 15s51 | | | n.a. |

Julian Day Number = 1695702.5, Delta T = 03h08m10s
Ecliptic obliquity = 23°42'04, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°02'11, Lahiri = - 4°55'11 Julian Calendar 1 Aug. 71 BCE == Greg. Calendar 30 July 071 BCE

The year -70 astronomical counting style corresponds to year 071 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 71 BCE
# geocentric

## SEPTEMBER 71 BCE (-70) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 22 28 26 | 5♍ 5'52 | 21♈30 | 28♍11 | 21♎24 | 2♏45 | 14♎27 | 11°R 1 | 27♉30 | 16♊41 | 0♊40 | 7♎35 | 8♎58 | 29♑ 5 | n.a. | S 1 |
| S 2 | 22 32 23 | 6° 4'58 | 4♉22 | 28°23 | 22°28 | 3°27 | 14°39 | 11♑ 0 | 27°30 | 16°42 | 0°40 | 7°36 | 8°55 | 29°12 | n.a. | S 2 |
| M 3 | 22 36 19 | 7° 4'05 | 17°29 | 28°R30 | 23°31 | 4°10 | 14°51 | 10°58 | 27°30 | 16°42 | 0°R40 | 7°38 | 8°52 | 29°18 | n.a. | M 3 |
| T 4 | 22 40 16 | 8° 3'15 | 0♊55 | 28°29 | 24°34 | 4°53 | 15° 3 | 10°57 | 27°30 | 16°43 | 0°40 | 7°39 | 8°49 | 29°25 | n.a. | T 4 |
| W 5 | 22 44 12 | 9° 2'27 | 14°41 | 28°22 | 25°37 | 5°36 | 15°14 | 10°55 | 27°30 | 16°44 | 0°40 | 7°R39 | 8°45 | 29°32 | n.a. | W 5 |
| T 6 | 22 48 9 | 10° 1'42 | 28°47 | 28° 7 | 26°40 | 6°19 | 15°26 | 10°54 | 27°R30 | 16°44 | 0°40 | 7°38 | 8°42 | 29°38 | n.a. | T 6 |
| F 7 | 22 52 6 | 11° 1'00 | 13♋13 | 27°44 | 27°42 | 7° 2 | 15°38 | 10°53 | 27°30 | 16°45 | 0°40 | 7°36 | 8°39 | 29°45 | n.a. | F 7 |
| S 8 | 22 56 2 | 12° 0'20 | 27°54 | 27°13 | 28°44 | 7°45 | 15°50 | 10°52 | 27°30 | 16°45 | 0°40 | 7°33 | 8°36 | 29°52 | n.a. | S 8 |
| S 9 | 22 59 59 | 12°59'42 | 12♌46 | 26°34 | 29°46 | 8°28 | 16° 2 | 10°51 | 27°30 | 16°46 | 0°40 | 7°29 | 8°33 | 29°59 | n.a. | S 9 |
| M10 | 23 3 55 | 13°59'06 | 27°40 | 25°47 | 0♏48 | 9°11 | 16°15 | 10°50 | 27°30 | 16°46 | 0°40 | 7°26 | 8°30 | 0♒ 5 | n.a. | M10 |
| T 11 | 23 7 52 | 14°58'33 | 12♍29 | 24°53 | 1°49 | 9°55 | 16°27 | 10°49 | 27°30 | 16°47 | 0°40 | 7°23 | 8°26 | 0°12 | n.a. | T 11 |
| W12 | 23 11 48 | 15°58'01 | 27° 5 | 23°53 | 2°50 | 10°38 | 16°39 | 10°49 | 27°29 | 16°47 | 0°40 | 7°22 | 8°23 | 0°19 | n.a. | W12 |
| T 13 | 23 15 45 | 16°57'32 | 11♎20 | 22°47 | 3°50 | 11°22 | 16°51 | 10°48 | 27°29 | 16°47 | 0°39 | 7°D22 | 8°20 | 0°25 | n.a. | T 13 |
| F 14 | 23 19 41 | 17°57'05 | 25°12 | 21°37 | 4°50 | 12° 5 | 17° 4 | 10°48 | 27°29 | 16°48 | 0°39 | 7°22 | 8°17 | 0°32 | n.a. | F 14 |
| S 15 | 23 23 38 | 18°56'40 | 8♏39 | 20°24 | 5°50 | 12°49 | 17°16 | 10°47 | 27°28 | 16°48 | 0°39 | 7°24 | 8°14 | 0°39 | n.a. | S 15 |
| S 16 | 23 27 35 | 19°56'16 | 21°41 | 19°11 | 6°50 | 13°33 | 17°29 | 10°47 | 27°28 | 16°48 | 0°39 | 7°25 | 8°11 | 0°46 | n.a. | S 16 |
| M17 | 23 31 31 | 20°55'55 | 4♐21 | 18° 0 | 7°49 | 14°17 | 17°41 | 10°47 | 27°27 | 16°48 | 0°38 | 7°26 | 8° 7 | 0°52 | n.a. | M17 |
| T 18 | 23 35 28 | 21°55'35 | 16°42 | 16°53 | 8°47 | 15° 0 | 17°54 | 10°D47 | 27°26 | 16°48 | 0°38 | 7°R27 | 8° 4 | 0°59 | n.a. | T 18 |
| W19 | 23 39 24 | 22°55'18 | 28°49 | 15°51 | 9°45 | 15°44 | 18° 6 | 10°47 | 27°26 | 16°49 | 0°38 | 7°27 | 8° 1 | 1° 6 | n.a. | W19 |
| T 20 | 23 43 21 | 23°55'02 | 10♑47 | 14°57 | 10°43 | 16°29 | 18°19 | 10°47 | 27°25 | 16°49 | 0°37 | 7°26 | 7°58 | 1°12 | n.a. | T 20 |
| F 21 | 23 47 17 | 24°54'48 | 22°40 | 14°12 | 11°41 | 17°13 | 18°32 | 10°47 | 27°24 | 16°49 | 0°37 | 7°25 | 7°55 | 1°19 | n.a. | F 21 |
| S 22 | 23 51 14 | 25°54'35 | 4♒32 | 13°37 | 12°37 | 17°57 | 18°44 | 10°48 | 27°23 | 16°49 | 0°37 | 7°23 | 7°51 | 1°26 | n.a. | S 22 |
| S 23 | 23 55 10 | 26°54'25 | 16°27 | 13°13 | 13°34 | 18°41 | 18°57 | 10°48 | 27°23 | 16°R49 | 0°36 | 7°22 | 7°48 | 1°33 | n.a. | S 23 |
| M24 | 23 59 7 | 27°54'16 | 28°28 | 13° 1 | 14°30 | 19°26 | 19°10 | 10°49 | 27°22 | 16°49 | 0°36 | 7°20 | 7°45 | 1°39 | n.a. | M24 |
| T 25 | 0 3 4 | 28°54'10 | 10♓38 | 12°D59 | 15°25 | 20°10 | 19°23 | 10°49 | 27°21 | 16°49 | 0°35 | 7°19 | 7°42 | 1°46 | n.a. | T 25 |
| W26 | 0 7 0 | 29°54'05 | 22°59 | 13° 9 | 16°20 | 20°55 | 19°36 | 10°50 | 27°20 | 16°49 | 0°35 | 7°19 | 7°39 | 1°53 | n.a. | W26 |
| T 27 | 0 10 57 | 0♎54'02 | 5♈31 | 13°30 | 17°14 | 21°39 | 19°49 | 10°51 | 27°19 | 16°49 | 0°34 | 7°D18 | 7°36 | 1°59 | n.a. | T 27 |
| F 28 | 0 14 53 | 1°54'01 | 18°17 | 14° 0 | 18° 7 | 22°24 | 20° 2 | 10°52 | 27°18 | 16°48 | 0°34 | 7°18 | 7°32 | 2° 6 | n.a. | F 28 |
| S 29 | 0 18 50 | 2°54'03 | 1♉15 | 14°39 | 19° 0 | 23° 9 | 20°15 | 10°53 | 27°16 | 16°48 | 0°33 | 7°19 | 7°29 | 2°13 | n.a. | S 29 |
| S 30 | 0 22 46 | 3♎54'06 | 14♉27 | 15♍27 | 19♏53 | 23♏53 | 20♎28 | 10♑54 | 27♉15 | 16♊48 | 0♊33 | 7♎19 | 7♎26 | 2♒20 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 9n45 | 7n18 | 1s16 | 2s31 | 3s33 | 10s34 | 2s18 | 13s25 | 0s55 | 4s47 | 1n 4 | 23s43 | 0s29 | 19n42 | 0s 7 | 21n56 | 1s 6 | 13n42 | 6s58 | 3s 2 | 3s36 | 15s50 | | n.a. |
| S 2 | 9 23 | 10 54 | 2 21 | 2 39 | 3 36 | 11 2 | 2 23 | 13 41 | 0 56 | 4 52 | 1 4 | 23 43 | 0 29 | 19 42 | 0 7 | 21 56 | 1 6 | 13 42 | 6 58 | 3 3 | 3 34 | 15 49 | | n.a. |
| M 3 | 9 1 | 14 1 | 3 21 | 2 44 | 3 38 | 11 31 | 2 28 | 13 56 | 0 56 | 4 56 | 1 3 | 23 44 | 0 29 | 19 42 | 0 7 | 21 56 | 1 6 | 13 42 | 6 58 | 3 4 | 3 33 | 15 48 | | n.a. |
| T 4 | 8 38 | 16 28 | 4 12 | 2 45 | 3 40 | 11 59 | 2 33 | 14 11 | 0 57 | 5 1 | 1 3 | 23 44 | 0 29 | 19 42 | 0 7 | 21 56 | 1 6 | 13 42 | 6 58 | 3 4 | 3 32 | 15 47 | | n.a. |
| W 5 | 8 16 | 18 1 | 4 49 | 2 42 | 3 40 | 12 27 | 2 37 | 14 26 | 0 58 | 5 6 | 1 3 | 23 44 | 0 29 | 19 42 | 0 7 | 21 56 | 1 6 | 13 42 | 6 58 | 3 4 | 3 31 | 15 46 | | n.a. |
| T 6 | 7 53 | 18 32 | 5 10 | 2 34 | 3 38 | 12 55 | 2 42 | 14 41 | 0 58 | 5 11 | 1 3 | 23 44 | 0 29 | 19 42 | 0 7 | 21 56 | 1 6 | 13 42 | 6 58 | 3 4 | 3 29 | 15 45 | | n.a. |
| F 7 | 7 31 | 17 51 | 5 12 | 2 23 | 3 36 | 13 22 | 2 47 | 14 56 | 0 59 | 5 15 | 1 3 | 23 44 | 0 29 | 19 42 | 0 7 | 21 56 | 1 6 | 13 42 | 6 58 | 3 3 | 3 28 | 15 44 | | n.a. |
| S 8 | 7 8 | 16 0 | 4 54 | 2 7 | 3 32 | 13 49 | 2 52 | 15 11 | 0 59 | 5 20 | 1 3 | 23 44 | 0 29 | 19 42 | 0 7 | 21 56 | 1 6 | 13 41 | 6 58 | 3 1 | 3 27 | 15 43 | | n.a. |
| S 9 | 6 45 | 13 4 | 4 17 | 1 45 | 3 26 | 14 16 | 2 57 | 15 25 | 1 0 | 5 25 | 1 2 | 23 44 | 0 29 | 19 42 | 0 7 | 21 56 | 1 6 | 13 41 | 6 59 | 3 0 | 3 25 | 15 42 | | n.a. |
| M10 | 6 22 | 9 16 | 3 21 | 1 20 | 3 18 | 14 42 | 3 2 | 15 40 | 1 0 | 5 30 | 1 2 | 23 45 | 0 29 | 19 42 | 0 7 | 21 56 | 1 6 | 13 41 | 6 59 | 2 59 | 3 24 | 15 41 | | n.a. |
| T 11 | 5 59 | 4 54 | 2 13 | 0 49 | 3 8 | 15 8 | 3 6 | 15 54 | 1 1 | 5 35 | 1 2 | 23 45 | 0 29 | 19 42 | 0 7 | 21 56 | 1 6 | 13 41 | 6 59 | 2 58 | 3 23 | 15 39 | | n.a. |
| W12 | 5 36 | 0 19 | 0 56 | 0 14 | 2 56 | 15 34 | 3 11 | 16 9 | 1 1 | 5 40 | 1 2 | 23 45 | 0 29 | 19 42 | 0 7 | 21 56 | 1 6 | 13 41 | 6 59 | 2 57 | 3 22 | 15 38 | | n.a. |
| T 13 | 5 12 | 4s12 | 0n22 | 0n25 | 2 43 | 16 0 | 3 16 | 16 23 | 1 2 | 5 44 | 1 2 | 23 45 | 0 30 | 19 42 | 0 7 | 21 56 | 1 6 | 13 41 | 6 59 | 2 57 | 3 20 | 15 37 | | n.a. |
| F 14 | 4 49 | 8 21 | 1 37 | 1 7 | 2 27 | 16 25 | 3 20 | 16 37 | 1 2 | 5 49 | 1 2 | 23 45 | 0 30 | 19 42 | 0 7 | 21 56 | 1 6 | 13 41 | 6 59 | 2 57 | 3 19 | 15 36 | | n.a. |
| S 15 | 4 25 | 11 57 | 2 44 | 1 51 | 2 10 | 16 50 | 3 25 | 16 51 | 1 3 | 5 54 | 1 2 | 23 45 | 0 30 | 19 41 | 0 7 | 21 56 | 1 6 | 13 40 | 6 59 | 2 58 | 3 18 | 15 35 | | n.a. |
| S 16 | 4 2 | 14 50 | 3 41 | 2 37 | 1 51 | 17 14 | 3 29 | 17 5 | 1 3 | 5 59 | 1 2 | 23 45 | 0 30 | 19 41 | 0 7 | 21 56 | 1 6 | 13 40 | 6 59 | 2 59 | 3 17 | 15 34 | | n.a. |
| M17 | 3 38 | 16 54 | 4 25 | 3 23 | 1 32 | 17 38 | 3 34 | 17 19 | 1 4 | 6 4 | 1 1 | 23 45 | 0 30 | 19 41 | 0 7 | 21 56 | 1 6 | 13 40 | 6 59 | 2 59 | 3 15 | 15 33 | | n.a. |
| T 18 | 3 14 | 18 7 | 4 56 | 4 8 | 1 12 | 18 1 | 3 38 | 17 32 | 1 4 | 6 9 | 1 1 | 23 45 | 0 30 | 19 41 | 0 7 | 21 56 | 1 6 | 13 40 | 6 59 | 2 59 | 3 14 | 15 32 | | n.a. |
| W19 | 2 50 | 18 29 | 5 13 | 4 51 | 0 51 | 18 24 | 3 43 | 17 46 | 1 5 | 6 14 | 1 1 | 23 45 | 0 30 | 19 41 | 0 7 | 21 56 | 1 6 | 13 40 | 7 0 | 2 59 | 3 13 | 15 31 | | n.a. |
| T 20 | 2 26 | 18 1 | 5 16 | 5 31 | 0 31 | 18 47 | 3 47 | 17 59 | 1 5 | 6 19 | 1 1 | 23 45 | 0 30 | 19 41 | 0 7 | 21 56 | 1 6 | 13 40 | 7 0 | 2 59 | 3 12 | 15 30 | | n.a. |
| F 21 | 2 3 | 16 45 | 5 5 | 6 7 | 0 11 | 19 9 | 3 51 | 18 12 | 1 6 | 6 24 | 1 1 | 23 45 | 0 30 | 19 41 | 0 7 | 21 56 | 1 6 | 13 39 | 7 0 | 2 58 | 3 10 | 15 29 | | n.a. |
| S 22 | 1 39 | 14 47 | 4 42 | 6 38 | 0n 8 | 19 31 | 3 55 | 18 25 | 1 6 | 6 29 | 1 1 | 23 45 | 0 30 | 19 40 | 0 7 | 21 56 | 1 6 | 13 39 | 7 0 | 2 58 | 3 9 | 15 27 | | n.a. |
| S 23 | 1 15 | 12 10 | 4 6 | 7 4 | 0 26 | 19 53 | 3 59 | 18 38 | 1 7 | 6 34 | 1 1 | 23 45 | 0 30 | 19 40 | 0 7 | 21 56 | 1 6 | 13 39 | 7 0 | 2 57 | 3 8 | 15 26 | | n.a. |
| M24 | 0 51 | 9 2 | 3 19 | 7 24 | 0 43 | 20 13 | 4 3 | 18 51 | 1 7 | 6 39 | 1 1 | 23 45 | 0 30 | 19 40 | 0 7 | 21 56 | 1 6 | 13 39 | 7 0 | 2 57 | 3 6 | 15 25 | | n.a. |
| T 25 | 0 26 | 5 28 | 2 23 | 7 39 | 0 58 | 20 34 | 4 7 | 19 4 | 1 7 | 6 44 | 1 1 | 23 45 | 0 30 | 19 40 | 0 7 | 21 56 | 1 6 | 13 39 | 7 0 | 2 56 | 3 5 | 15 24 | | n.a. |
| W26 | 0 2 | 1 37 | 1 19 | 7 48 | 1 12 | 20 54 | 4 11 | 19 16 | 1 8 | 6 49 | 1 0 | 23 45 | 0 30 | 19 40 | 0 7 | 21 56 | 1 7 | 13 39 | 7 0 | 2 56 | 3 4 | 15 23 | | n.a. |
| T 27 | 0s22 | 2n22 | 0 10 | 7 51 | 1 24 | 21 13 | 4 14 | 19 28 | 1 8 | 6 54 | 1 0 | 23 45 | 0 30 | 19 39 | 0 7 | 21 56 | 1 7 | 13 38 | 7 0 | 2 56 | 3 3 | 15 22 | | n.a. |
| F 28 | 0 46 | 6 19 | 1s 1 | 7 49 | 1 34 | 21 32 | 4 18 | 19 40 | 1 9 | 6 59 | 1 0 | 23 45 | 0 30 | 19 39 | 0 7 | 21 56 | 1 7 | 13 38 | 7 0 | 2 56 | 3 1 | 15 21 | | n.a. |
| S 29 | 1 10 | 10 1 | 2 9 | 7 41 | 1 43 | 21 50 | 4 21 | 19 52 | 1 9 | 7 4 | 1 0 | 23 45 | 0 30 | 19 39 | 0 7 | 21 56 | 1 7 | 13 38 | 7 1 | 2 56 | 3 0 | 15 20 | | n.a. |
| S 30 | 1s34 | 13n18 | 3s12 | 7n29 | 1n51 | 22s 8 | 4s24 | 20s 4 | 1s 9 | 7s 9 | 1n 0 | 23s45 | 0s30 | 19n39 | 0s 7 | 21n56 | 1s 7 | 13n38 | 7s 1 | 2s56 | 2s59 | 15s18 | | n.a. |

Julian Day Number = 1695733.5, Delta T = 03h08m09s
Ecliptic obliquity = 23°42'04, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°02'07, Lahiri = - 4°55'06 Julian Calendar 1 Sept. 71 BCE == Greg. Calendar 30 Aug. 071 BCE

The year -70 astronomical counting style corresponds to year 071 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 71 BCE
# geocentric

## OCTOBER 71 BCE (-70) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 0 26 43 | 4♎54'12 | 27♉52 | 16♍22 | 20♏44 | 24♏38 | 20♎41 | 10♑56 | 27°R14 | 16°R48 | 0°R32 | 7♎19 | 7♎23 | 2♒26 | n.a. | M 1 |
| T 2 | 0 30 39 | 5°54'20 | 11♊29 | 17°24 | 21°35 | 25°23 | 20°54 | 10°57 | 27♉13 | 16♊47 | 0♊31 | 7°20 | 7°20 | 2°33 | n.a. | T 2 |
| W 3 | 0 34 36 | 6°54'30 | 25°20 | 18°31 | 22°26 | 26° 8 | 21° 7 | 10°58 | 27°11 | 16°47 | 0°31 | 7°20 | 7°16 | 2°40 | n.a. | W 3 |
| T 4 | 0 38 32 | 7°54'42 | 9♋22 | 19°44 | 23°15 | 26°53 | 21°20 | 11° 0 | 27°10 | 16°47 | 0°30 | 7°20 | 7°13 | 2°46 | n.a. | T 4 |
| F 5 | 0 42 29 | 8°54'57 | 23°34 | 21° 0 | 24° 4 | 27°38 | 21°33 | 11° 2 | 27° 8 | 16°46 | 0°29 | 7°20 | 7°10 | 2°53 | n.a. | F 5 |
| S 6 | 0 46 26 | 9°55'14 | 7♌54 | 22°21 | 24°52 | 28°23 | 21°46 | 11° 3 | 27° 7 | 16°46 | 0°29 | 7°20 | 7° 7 | 3° 0 | n.a. | S 6 |
| S 7 | 0 50 22 | 10°55'32 | 22°20 | 23°44 | 25°39 | 29° 9 | 22° 0 | 11° 5 | 27° 5 | 16°45 | 0°28 | 7°20 | 7° 4 | 3° 6 | n.a. | S 7 |
| M 8 | 0 54 19 | 11°55'53 | 6♍46 | 25°10 | 26°25 | 29°54 | 22°13 | 11° 7 | 27° 4 | 16°45 | 0°27 | 7°21 | 7° 1 | 3°13 | n.a. | M 8 |
| T 9 | 0 58 15 | 12°56'16 | 21° 8 | 26°38 | 27°11 | 0♐39 | 22°26 | 11° 9 | 27° 2 | 16°44 | 0°27 | 7°21 | 6°57 | 3°20 | n.a. | T 9 |
| W10 | 1 2 12 | 13°56'41 | 5♎22 | 28° 8 | 27°55 | 1°25 | 22°39 | 11°12 | 27° 1 | 16°44 | 0°26 | 7°R21 | 6°54 | 3°27 | n.a. | W10 |
| T 11 | 1 6 8 | 14°57'08 | 19°22 | 29°40 | 28°39 | 2°10 | 22°53 | 11°14 | 26°59 | 16°43 | 0°25 | 7°21 | 6°51 | 3°33 | n.a. | T 11 |
| F 12 | 1 10 5 | 15°57'36 | 3♏ 5 | 1♎12 | 29°21 | 2°56 | 23° 6 | 11°16 | 26°57 | 16°43 | 0°24 | 7°20 | 6°48 | 3°40 | n.a. | F 12 |
| S 13 | 1 14 1 | 16°58'06 | 16°28 | 2°46 | 0♐ 3 | 3°41 | 23°19 | 11°19 | 26°56 | 16°42 | 0°23 | 7°19 | 6°45 | 3°47 | n.a. | S 13 |
| S 14 | 1 17 58 | 17°58'37 | 29°30 | 4°20 | 0°43 | 4°27 | 23°33 | 11°21 | 26°54 | 16°41 | 0°23 | 7°18 | 6°42 | 3°53 | n.a. | S 14 |
| M15 | 1 21 55 | 18°59'11 | 12♐12 | 5°55 | 1°22 | 5°13 | 23°46 | 11°24 | 26°52 | 16°40 | 0°22 | 7°16 | 6°38 | 4° 0 | n.a. | M15 |
| T 16 | 1 25 51 | 19°59'45 | 24°36 | 7°30 | 2° 0 | 5°58 | 23°59 | 11°27 | 26°50 | 16°40 | 0°21 | 7°15 | 6°35 | 4° 7 | n.a. | T 16 |
| W17 | 1 29 48 | 21° 0'21 | 6♑45 | 9° 5 | 2°36 | 6°44 | 24°13 | 11°30 | 26°48 | 16°39 | 0°20 | 7°14 | 6°32 | 4°14 | n.a. | W17 |
| T 18 | 1 33 44 | 22° 0'58 | 18°44 | 10°41 | 3°12 | 7°30 | 24°26 | 11°32 | 26°46 | 16°38 | 0°19 | 7°D13 | 6°29 | 4°20 | n.a. | T 18 |
| F 19 | 1 37 41 | 23° 1'37 | 0♒37 | 12°17 | 3°46 | 8°16 | 24°39 | 11°35 | 26°44 | 16°37 | 0°18 | 7°13 | 6°26 | 4°27 | n.a. | F 19 |
| S 20 | 1 41 37 | 24° 2'17 | 12°29 | 13°53 | 4°18 | 9° 2 | 24°53 | 11°39 | 26°42 | 16°36 | 0°17 | 7°14 | 6°22 | 4°34 | n.a. | S 20 |
| S 21 | 1 45 34 | 25° 2'58 | 24°24 | 15°29 | 4°49 | 9°48 | 25° 6 | 11°42 | 26°40 | 16°35 | 0°16 | 7°16 | 6°19 | 4°40 | n.a. | S 21 |
| M22 | 1 49 30 | 26° 3'40 | 6♓28 | 17° 4 | 5°18 | 10°34 | 25°19 | 11°45 | 26°38 | 16°35 | 0°15 | 7°17 | 6°16 | 4°47 | n.a. | M22 |
| T 23 | 1 53 27 | 27° 4'24 | 18°43 | 18°40 | 5°46 | 11°20 | 25°33 | 11°49 | 26°36 | 16°34 | 0°15 | 7°19 | 6°13 | 4°54 | n.a. | T 23 |
| W24 | 1 57 23 | 28° 5'09 | 1♈14 | 20°16 | 6°12 | 12° 6 | 25°46 | 11°52 | 26°34 | 16°33 | 0°14 | 7°R20 | 6°10 | 5° 0 | n.a. | W24 |
| T 25 | 2 1 20 | 29° 5'55 | 14° 1 | 21°51 | 6°37 | 12°52 | 25°59 | 11°56 | 26°32 | 16°32 | 0°13 | 7°20 | 6° 7 | 5° 7 | n.a. | T 25 |
| F 26 | 2 5 17 | 0♏ 6'42 | 27° 7 | 23°27 | 6°59 | 13°38 | 26°13 | 11°59 | 26°29 | 16°31 | 0°12 | 7°18 | 6° 3 | 5°14 | n.a. | F 26 |
| S 27 | 2 9 13 | 1° 7'31 | 10♉30 | 25° 2 | 7°20 | 14°25 | 26°26 | 12° 3 | 26°27 | 16°29 | 0°11 | 7°16 | 6° 0 | 5°21 | n.a. | S 27 |
| S 28 | 2 13 10 | 2° 8'22 | 24° 9 | 26°37 | 7°39 | 15°11 | 26°40 | 12° 7 | 26°25 | 16°28 | 0°10 | 7°13 | 5°57 | 5°27 | n.a. | S 28 |
| M29 | 2 17 6 | 3° 9'13 | 8♊ 1 | 28°12 | 7°55 | 15°57 | 26°53 | 12°11 | 26°23 | 16°27 | 0° 8 | 7° 9 | 5°54 | 5°34 | n.a. | M29 |
| T 30 | 2 21 3 | 4°10'06 | 22° 3 | 29°47 | 8°10 | 16°44 | 27° 6 | 12°15 | 26°20 | 16°26 | 0° 7 | 7° 5 | 5°51 | 5°41 | n.a. | T 30 |
| W31 | 2 24 59 | 5♏11'01 | 6♋11 | 1♏22 | 8♐23 | 17♐30 | 27♎20 | 12♑19 | 26♉18 | 16♊25 | 0♊ 6 | 7♎ 1 | 5♎47 | 5♒47 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| M 1 | 1s58 | 15n55 | 4s 5 | 7n13 | 1n57 | 22s26 | 4s28 | 20s16 | 1s10 | 7s14 | 1n 0 | 23s45 | 0s30 | 19n38 | 0s 7 | 21n56 | 1s 7 | 13n38 | 7s 1 | 2s56 | 2s58 | 15s17 | | | n.a. |
| T 2 | 2 22 | 17 41 | 4 46 | 6 53 | 2 1 | 22 42 | 4 31 | 20 27 | 1 10 | 7 19 | 1 0 | 23 45 | 0 30 | 19 38 | 0 7 | 21 56 | 1 7 | 13 37 | 7 1 | 2 56 | 2 56 | 15 16 | | | n.a. |
| W 3 | 2 46 | 18 27 | 5 11 | 6 30 | 2 5 | 22 59 | 4 33 | 20 38 | 1 10 | 7 24 | 1 0 | 23 45 | 0 30 | 19 38 | 0 7 | 21 56 | 1 7 | 13 37 | 7 1 | 2 56 | 2 55 | 15 15 | | | n.a. |
| T 4 | 3 10 | 18 6 | 5 17 | 6 3 | 2 7 | 23 14 | 4 36 | 20 49 | 1 11 | 7 29 | 1 0 | 23 45 | 0 30 | 19 37 | 0 7 | 21 56 | 1 7 | 13 37 | 7 1 | 2 56 | 2 54 | 15 14 | | | n.a. |
| F 5 | 3 34 | 16 37 | 5 5 | 5 34 | 2 8 | 23 29 | 4 39 | 21 0 | 1 11 | 7 34 | 1 0 | 23 44 | 0 30 | 19 37 | 0 7 | 21 56 | 1 7 | 13 37 | 7 1 | 2 56 | 2 53 | 15 13 | | | n.a. |
| S 6 | 3 58 | 14 5 | 4 33 | 5 2 | 2 9 | 23 44 | 4 41 | 21 11 | 1 11 | 7 39 | 0 59 | 23 44 | 0 30 | 19 37 | 0 7 | 21 56 | 1 7 | 13 37 | 7 1 | 2 56 | 2 51 | 15 12 | | | n.a. |
| S 7 | 4 22 | 10 41 | 3 45 | 4 28 | 2 8 | 23 58 | 4 43 | 21 21 | 1 12 | 7 44 | 0 59 | 23 44 | 0 30 | 19 36 | 0 7 | 21 56 | 1 7 | 13 36 | 7 1 | 2 57 | 2 50 | 15 11 | | | n.a. |
| M 8 | 4 46 | 6 37 | 2 42 | 3 52 | 2 7 | 24 11 | 4 45 | 21 31 | 1 12 | 7 50 | 0 59 | 23 44 | 0 30 | 19 36 | 0 7 | 21 55 | 1 7 | 13 36 | 7 1 | 2 57 | 2 49 | 15 9 | | | n.a. |
| T 9 | 5 10 | 2 12 | 1 29 | 3 15 | 2 5 | 24 24 | 4 47 | 21 41 | 1 12 | 7 55 | 0 59 | 23 44 | 0 30 | 19 36 | 0 7 | 21 55 | 1 7 | 13 36 | 7 1 | 2 57 | 2 47 | 15 8 | | | n.a. |
| W10 | 5 34 | 2s19 | 0 11 | 2 37 | 2 2 | 24 36 | 4 49 | 21 51 | 1 12 | 8 0 | 0 59 | 23 44 | 0 30 | 19 35 | 0 7 | 21 55 | 1 7 | 13 36 | 7 1 | 2 57 | 2 46 | 15 7 | | | n.a. |
| T 11 | 5 57 | 6 38 | 1n 6 | 1 57 | 1 59 | 24 47 | 4 50 | 22 1 | 1 13 | 8 5 | 0 59 | 23 44 | 0 30 | 19 35 | 0 7 | 21 55 | 1 7 | 13 35 | 7 1 | 2 57 | 2 45 | 15 6 | | | n.a. |
| F 12 | 6 21 | 10 31 | 2 18 | 1 16 | 1 55 | 24 58 | 4 52 | 22 10 | 1 13 | 8 10 | 0 59 | 23 43 | 0 30 | 19 34 | 0 7 | 21 55 | 1 7 | 13 35 | 7 2 | 2 57 | 2 44 | 15 5 | | | n.a. |
| S 13 | 6 44 | 13 45 | 3 20 | 0 35 | 1 51 | 25 9 | 4 53 | 22 19 | 1 13 | 8 15 | 0 59 | 23 43 | 0 31 | 19 34 | 0 7 | 21 55 | 1 7 | 13 35 | 7 2 | 2 56 | 2 42 | 15 4 | | | n.a. |
| S 14 | 7 8 | 16 11 | 4 10 | 0s 7 | 1 47 | 25 18 | 4 54 | 22 28 | 1 13 | 8 20 | 0 59 | 23 43 | 0 31 | 19 34 | 0 7 | 21 55 | 1 7 | 13 35 | 7 2 | 2 56 | 2 41 | 15 2 | | | n.a. |
| M15 | 7 31 | 17 46 | 4 47 | 0 49 | 1 42 | 25 27 | 4 54 | 22 37 | 1 14 | 8 25 | 0 59 | 23 43 | 0 31 | 19 33 | 0 7 | 21 55 | 1 7 | 13 34 | 7 2 | 2 55 | 2 40 | 15 1 | | | n.a. |
| T 16 | 7 54 | 18 27 | 5 9 | 1 32 | 1 37 | 25 36 | 4 55 | 22 45 | 1 14 | 8 30 | 0 59 | 23 43 | 0 31 | 19 33 | 0 7 | 21 55 | 1 7 | 13 34 | 7 2 | 2 54 | 2 39 | 15 0 | | | n.a. |
| W17 | 8 17 | 18 16 | 5 16 | 2 15 | 1 31 | 25 43 | 4 55 | 22 53 | 1 14 | 8 35 | 0 59 | 23 42 | 0 31 | 19 32 | 0 7 | 21 55 | 1 7 | 13 34 | 7 2 | 2 54 | 2 37 | 14 59 | | | n.a. |
| T 18 | 8 40 | 17 15 | 5 10 | 2 58 | 1 26 | 25 50 | 4 55 | 23 1 | 1 14 | 8 40 | 0 59 | 23 42 | 0 31 | 19 32 | 0 7 | 21 55 | 1 7 | 13 34 | 7 2 | 2 54 | 2 36 | 14 58 | | | n.a. |
| F 19 | 9 3 | 15 31 | 4 51 | 3 41 | 1 20 | 25 56 | 4 54 | 23 9 | 1 14 | 8 45 | 0 59 | 23 42 | 0 31 | 19 31 | 0 7 | 21 54 | 1 7 | 13 34 | 7 2 | 2 54 | 2 35 | 14 57 | | | n.a. |
| S 20 | 9 25 | 13 6 | 4 19 | 4 24 | 1 14 | 26 2 | 4 53 | 23 16 | 1 15 | 8 50 | 0 58 | 23 42 | 0 31 | 19 31 | 0 7 | 21 54 | 1 7 | 13 33 | 7 2 | 2 54 | 2 33 | 14 55 | | | n.a. |
| S 21 | 9 48 | 10 9 | 3 35 | 5 7 | 1 7 | 26 7 | 4 52 | 23 24 | 1 15 | 8 55 | 0 58 | 23 41 | 0 31 | 19 30 | 0 7 | 21 54 | 1 7 | 13 33 | 7 2 | 2 55 | 2 32 | 14 54 | | | n.a. |
| M22 | 10 10 | 6 44 | 2 42 | 5 50 | 1 1 | 26 11 | 4 51 | 23 31 | 1 15 | 9 0 | 0 58 | 23 41 | 0 31 | 19 30 | 0 7 | 21 54 | 1 7 | 13 33 | 7 2 | 2 55 | 2 31 | 14 53 | | | n.a. |
| T 23 | 10 32 | 2 58 | 1 41 | 6 33 | 0 55 | 26 15 | 4 49 | 23 38 | 1 15 | 9 5 | 0 58 | 23 41 | 0 31 | 19 29 | 0 7 | 21 54 | 1 7 | 13 33 | 7 2 | 2 56 | 2 30 | 14 52 | | | n.a. |
| W24 | 10 55 | 1n 0 | 0 34 | 7 16 | 0 48 | 26 17 | 4 47 | 23 44 | 1 15 | 9 10 | 0 58 | 23 41 | 0 31 | 19 29 | 0 7 | 21 54 | 1 7 | 13 32 | 7 2 | 2 56 | 2 28 | 14 51 | | | n.a. |
| T 25 | 11 16 | 5 1 | 0s37 | 7 58 | 0 42 | 26 19 | 4 45 | 23 50 | 1 15 | 9 15 | 0 58 | 23 40 | 0 31 | 19 28 | 0 7 | 21 54 | 1 7 | 13 32 | 7 2 | 2 56 | 2 27 | 14 50 | | | n.a. |
| F 26 | 11 38 | 8 54 | 1 47 | 8 40 | 0 35 | 26 21 | 4 42 | 23 56 | 1 16 | 9 20 | 0 58 | 23 40 | 0 31 | 19 28 | 0 7 | 21 54 | 1 7 | 13 32 | 7 2 | 2 56 | 2 26 | 14 48 | | | n.a. |
| S 27 | 12 0 | 12 24 | 2 52 | 9 21 | 0 28 | 26 21 | 4 39 | 24 2 | 1 16 | 9 24 | 0 58 | 23 40 | 0 31 | 19 27 | 0 7 | 21 54 | 1 7 | 13 32 | 7 2 | 2 55 | 2 25 | 14 47 | | | n.a. |
| S 28 | 12 21 | 15 19 | 3 49 | 10 2 | 0 22 | 26 21 | 4 35 | 24 7 | 1 16 | 9 29 | 0 58 | 23 39 | 0 31 | 19 27 | 0 7 | 21 53 | 1 7 | 13 31 | 7 2 | 2 53 | 2 23 | 14 46 | | | n.a. |
| M29 | 12 42 | 17 23 | 4 34 | 10 43 | 0 15 | 26 20 | 4 31 | 24 13 | 1 16 | 9 34 | 0 58 | 23 39 | 0 31 | 19 26 | 0 7 | 21 53 | 1 7 | 13 31 | 7 2 | 2 52 | 2 22 | 14 45 | | | n.a. |
| T 30 | 13 3 | 18 26 | 5 3 | 11 23 | 0 8 | 26 18 | 4 27 | 24 18 | 1 16 | 9 39 | 0 58 | 23 39 | 0 31 | 19 26 | 0 7 | 21 53 | 1 7 | 13 31 | 7 2 | 2 50 | 2 21 | 14 44 | | | n.a. |
| W31 | 13s24 | 18n20 | 5s13 | 12s 3 | 0n 2 | 26s15 | 4s22 | 24s22 | 1s16 | 9s44 | 0n58 | 23s38 | 0s31 | 19n25 | 0s 7 | 21n53 | 1s 7 | 13n31 | 7s 2 | 2s49 | 2s19 | 14s42 | | | n.a. |

Julian Day Number = 1695763.5, Delta T = 03h08m08s
Ecliptic obliquity = 23°42'04, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°02'03, Lahiri = - 4°55'02 Julian Calendar 1 Oct. 71 BCE == Greg. Calendar 29 Sept. 071 BCE

The year -70 astronomical counting style corresponds to year 071 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 71 BCE
# geocentric

## NOVEMBER 71 BCE (-70) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 2 28 56 | 6♏11'57 | 20♋22 | 2♏57 | 8♐33 | 18♐17 | 27♎33 | 12♑23 | 26°R16 | 16°R24 | 0°R 5 | 6°R59 | 5♎44 | 5♒54 | n.a. | T 1 |
| F 2 | 2 32 53 | 7°12'55 | 4♌33 | 4°31 | 8°41 | 19° 3 | 27°46 | 12°27 | 26♉13 | 16♊23 | 0♊ 4 | 6°D58 | 5°41 | 6° 1 | n.a. | F 2 |
| S 3 | 2 36 49 | 8°13'54 | 18°42 | 6° 6 | 8°47 | 19°49 | 28° 0 | 12°32 | 26°11 | 16°21 | 0° 3 | 6♎58 | 5°38 | 6° 8 | n.a. | S 3 |
| S 4 | 2 40 46 | 9°14'54 | 2♍47 | 7°40 | 8°51 | 20°36 | 28°13 | 12°36 | 26° 8 | 16°20 | 0° 2 | 6°59 | 5°35 | 6°14 | n.a. | S 4 |
| M 5 | 2 44 42 | 10°15'56 | 16°47 | 9°15 | 8°R52 | 21°23 | 28°26 | 12°40 | 26° 6 | 16°19 | 0° 1 | 7° 1 | 5°32 | 6°21 | n.a. | M 5 |
| T 6 | 2 48 39 | 11°16'58 | 0♎41 | 10°49 | 8°51 | 22° 9 | 28°39 | 12°45 | 26° 4 | 16°17 | 29♉59 | 7°R 2 | 5°28 | 6°28 | n.a. | T 6 |
| W 7 | 2 52 35 | 12°18'03 | 14°26 | 12°23 | 8°47 | 22°56 | 28°53 | 12°50 | 26° 1 | 16°16 | 29°59 | 7° 2 | 5°25 | 6°34 | n.a. | W 7 |
| T 8 | 2 56 32 | 13°19'08 | 28° 1 | 13°58 | 8°41 | 23°43 | 29° 6 | 12°54 | 25°59 | 16°15 | 29°58 | 7° 0 | 5°22 | 6°41 | n.a. | T 8 |
| F 9 | 3 0 28 | 14°20'14 | 11♏23 | 15°32 | 8°32 | 24°29 | 29°19 | 12°59 | 25°56 | 16°13 | 29°56 | 6°56 | 5°19 | 6°48 | n.a. | F 9 |
| S 10 | 3 4 25 | 15°21'21 | 24°32 | 17° 6 | 8°21 | 25°16 | 29°32 | 13° 4 | 25°54 | 16°12 | 29°55 | 6°51 | 5°16 | 6°54 | n.a. | S 10 |
| S 11 | 3 8 21 | 16°22'29 | 7♐25 | 18°41 | 8° 8 | 26° 3 | 29°45 | 13° 9 | 25°51 | 16°11 | 29°54 | 6°44 | 5°13 | 7° 1 | n.a. | S 11 |
| M12 | 3 12 18 | 17°23'38 | 20° 2 | 20°15 | 7°52 | 26°50 | 29°58 | 13°14 | 25°49 | 16° 9 | 29°53 | 6°36 | 5° 9 | 7° 8 | n.a. | M12 |
| T 13 | 3 16 15 | 18°24'47 | 2♑25 | 21°50 | 7°33 | 27°36 | 0♏11 | 13°19 | 25°46 | 16° 8 | 29°52 | 6°29 | 5° 6 | 7°15 | n.a. | T 13 |
| W14 | 3 20 11 | 19°25'57 | 14°34 | 23°24 | 7°13 | 28°23 | 0°24 | 13°24 | 25°43 | 16° 6 | 29°51 | 6°22 | 5° 3 | 7°21 | n.a. | W14 |
| T 15 | 3 24 8 | 20°27'07 | 26°32 | 24°59 | 6°50 | 29°10 | 0°37 | 13°29 | 25°41 | 16° 5 | 29°49 | 6°17 | 5° 0 | 7°28 | n.a. | T 15 |
| F 16 | 3 28 4 | 21°28'18 | 8♒24 | 26°34 | 6°25 | 29°57 | 0°50 | 13°35 | 25°38 | 16° 3 | 29°48 | 6°14 | 4°57 | 7°35 | n.a. | F 16 |
| S 17 | 3 32 1 | 22°29'29 | 20°15 | 28° 9 | 5°58 | 0♑44 | 1° 3 | 13°40 | 25°36 | 16° 2 | 29°47 | 6°D13 | 4°53 | 7°41 | n.a. | S 17 |
| S 18 | 3 35 57 | 23°30'41 | 2♓ 8 | 29°44 | 5°29 | 1°31 | 1°16 | 13°45 | 25°33 | 16° 0 | 29°46 | 6°13 | 4°50 | 7°48 | n.a. | S 18 |
| M19 | 3 39 54 | 24°31'52 | 14°10 | 1♐19 | 4°58 | 2°18 | 1°29 | 13°51 | 25°31 | 15°59 | 29°45 | 6°14 | 4°47 | 7°55 | n.a. | M19 |
| T 20 | 3 43 51 | 25°33'04 | 26°25 | 2°54 | 4°26 | 3° 5 | 1°42 | 13°56 | 25°28 | 15°57 | 29°43 | 6°16 | 4°44 | 8° 1 | n.a. | T 20 |
| W21 | 3 47 47 | 26°34'16 | 8♈59 | 4°30 | 3°52 | 3°52 | 1°55 | 14° 2 | 25°26 | 15°55 | 29°42 | 6°R16 | 4°41 | 8° 8 | n.a. | W21 |
| T 22 | 3 51 44 | 27°35'28 | 21°54 | 6° 5 | 3°17 | 4°39 | 2° 8 | 14° 8 | 25°23 | 15°54 | 29°41 | 6°15 | 4°38 | 8°15 | n.a. | T 22 |
| F 23 | 3 55 40 | 28°36'41 | 5♉13 | 7°41 | 2°42 | 5°26 | 2°20 | 14°13 | 25°20 | 15°52 | 29°40 | 6°11 | 4°34 | 8°22 | n.a. | F 23 |
| S 24 | 3 59 37 | 29°37'54 | 18°56 | 9°16 | 2° 6 | 6°13 | 2°33 | 14°19 | 25°18 | 15°51 | 29°39 | 6° 5 | 4°31 | 8°28 | n.a. | S 24 |
| S 25 | 4 3 33 | 0♐39'07 | 3♊ 1 | 10°52 | 1°29 | 7° 0 | 2°46 | 14°25 | 25°15 | 15°49 | 29°38 | 5°57 | 4°28 | 8°35 | n.a. | S 25 |
| M26 | 4 7 30 | 1°40'20 | 17°23 | 12°28 | 0°52 | 7°47 | 2°58 | 14°31 | 25°13 | 15°47 | 29°36 | 5°48 | 4°25 | 8°42 | n.a. | M26 |
| T 27 | 4 11 26 | 2°41'34 | 1♋55 | 14° 4 | 0°16 | 8°34 | 3°11 | 14°37 | 25°10 | 15°46 | 29°35 | 5°38 | 4°22 | 8°48 | n.a. | T 27 |
| W28 | 4 15 23 | 3°42'48 | 16°31 | 15°39 | 29♏40 | 9°21 | 3°23 | 14°43 | 25° 8 | 15°44 | 29°34 | 5°30 | 4°19 | 8°55 | n.a. | W28 |
| T 29 | 4 19 20 | 4°44'02 | 1♌ 3 | 17°15 | 29° 4 | 10° 8 | 3°36 | 14°49 | 25° 5 | 15°42 | 29°33 | 5°23 | 4°15 | 9° 2 | n.a. | T 29 |
| F 30 | 4 23 16 | 5♐45'17 | 15♌27 | 18♐50 | 28♏30 | 10♑55 | 3♏48 | 14♑55 | 25♉ 3 | 15♊41 | 29♉32 | 5♎19 | 4♎12 | 9♒ 8 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 13s44 | 17n 7 | 5s 5 | 12s42 | 0s 5 | 26s12 | 4s17 | 24s27 | 1s16 | 9s49 | 0n58 | 23s38 | 0s31 | 19n25 | 0s 7 | 21n53 | 1s 7 | 13n30 | 7s 2 | 2s48 | 2s18 | 14s41 | | n.a. |
| F 2 | 14 4 | 14 50 | 4 38 | 13 21 | 0 11 | 26 7 | 4 11 | 24 31 | 1 16 | 9 54 | 0 58 | 23 38 | 0 31 | 19 24 | 0 7 | 21 53 | 1 7 | 13 30 | 7 2 | 2 48 | 2 17 | 14 40 | | n.a. |
| S 3 | 14 24 | 11 41 | 3 54 | 13 59 | 0 18 | 26 2 | 4 5 | 24 35 | 1 16 | 9 59 | 0 58 | 23 37 | 0 31 | 19 24 | 0 7 | 21 53 | 1 7 | 13 30 | 7 2 | 2 48 | 2 16 | 14 39 | | n.a. |
| S 4 | 14 44 | 7 51 | 2 56 | 14 36 | 0 24 | 25 56 | 3 58 | 24 38 | 1 16 | 10 3 | 0 58 | 23 37 | 0 31 | 19 23 | 0 7 | 21 52 | 1 7 | 13 30 | 7 2 | 2 48 | 2 14 | 14 38 | | n.a. |
| M 5 | 15 3 | 3 37 | 1 48 | 15 13 | 0 31 | 25 49 | 3 50 | 24 41 | 1 17 | 10 8 | 0 58 | 23 36 | 0 31 | 19 23 | 0 7 | 21 52 | 1 7 | 13 30 | 7 2 | 2 49 | 2 13 | 14 36 | | n.a. |
| T 6 | 15 23 | 0s48 | 0 35 | 15 49 | 0 37 | 25 41 | 3 42 | 24 44 | 1 17 | 10 13 | 0 58 | 23 36 | 0 31 | 19 22 | 0 7 | 21 52 | 1 7 | 13 29 | 7 2 | 2 49 | 2 12 | 14 35 | | n.a. |
| W 7 | 15 42 | 5 8 | 0n40 | 16 25 | 0 43 | 25 32 | 3 34 | 24 47 | 1 17 | 10 18 | 0 58 | 23 36 | 0 31 | 19 21 | 0 7 | 21 52 | 1 7 | 13 29 | 7 2 | 2 49 | 2 11 | 14 34 | | n.a. |
| T 8 | 16 0 | 9 9 | 1 52 | 16 59 | 0 49 | 25 22 | 3 25 | 24 49 | 1 17 | 10 22 | 0 58 | 23 35 | 0 31 | 19 21 | 0 7 | 21 52 | 1 7 | 13 29 | 7 2 | 2 49 | 2 9 | 14 33 | | n.a. |
| F 9 | 16 19 | 12 37 | 2 56 | 17 33 | 0 55 | 25 11 | 3 16 | 24 52 | 1 17 | 10 27 | 0 58 | 23 35 | 0 31 | 19 20 | 0 7 | 21 52 | 1 7 | 13 29 | 7 2 | 2 47 | 2 8 | 14 32 | | n.a. |
| S 10 | 16 37 | 15 24 | 3 49 | 18 6 | 1 1 | 24 59 | 3 5 | 24 53 | 1 17 | 10 32 | 0 58 | 23 34 | 0 31 | 19 20 | 0 7 | 21 52 | 1 7 | 13 28 | 7 2 | 2 45 | 2 7 | 14 30 | | n.a. |
| S 11 | 16 55 | 17 21 | 4 30 | 18 38 | 1 7 | 24 47 | 2 55 | 24 55 | 1 17 | 10 36 | 0 58 | 23 34 | 0 31 | 19 19 | 0 7 | 21 51 | 1 7 | 13 28 | 7 2 | 2 42 | 2 5 | 14 29 | | n.a. |
| M12 | 17 13 | 18 24 | 4 56 | 19 10 | 1 12 | 24 33 | 2 44 | 24 56 | 1 17 | 10 41 | 0 58 | 23 33 | 0 31 | 19 18 | 0 7 | 21 51 | 1 7 | 13 28 | 7 2 | 2 39 | 2 4 | 14 28 | | n.a. |
| T 13 | 17 30 | 18 32 | 5 8 | 19 40 | 1 18 | 24 18 | 2 32 | 24 57 | 1 17 | 10 46 | 0 58 | 23 33 | 0 31 | 19 18 | 0 7 | 21 51 | 1 7 | 13 28 | 7 2 | 2 36 | 2 3 | 14 27 | | n.a. |
| W14 | 17 47 | 17 50 | 5 6 | 20 10 | 1 23 | 24 3 | 2 20 | 24 58 | 1 17 | 10 50 | 0 58 | 23 32 | 0 32 | 19 17 | 0 7 | 21 51 | 1 7 | 13 27 | 7 2 | 2 33 | 2 2 | 14 25 | | n.a. |
| T 15 | 18 3 | 16 20 | 4 50 | 20 38 | 1 28 | 23 46 | 2 7 | 24 58 | 1 17 | 10 55 | 0 58 | 23 32 | 0 32 | 19 17 | 0 7 | 21 51 | 1 7 | 13 27 | 7 2 | 2 31 | 2 0 | 14 24 | | n.a. |
| F 16 | 18 20 | 14 9 | 4 22 | 21 6 | 1 33 | 23 29 | 1 54 | 24 59 | 1 16 | 11 0 | 0 58 | 23 31 | 0 32 | 19 16 | 0 7 | 21 51 | 1 7 | 13 27 | 7 2 | 2 30 | 1 59 | 14 23 | | n.a. |
| S 17 | 18 36 | 11 23 | 3 43 | 21 33 | 1 37 | 23 10 | 1 40 | 24 58 | 1 16 | 11 4 | 0 58 | 23 31 | 0 32 | 19 15 | 0 7 | 21 50 | 1 7 | 13 27 | 7 2 | 2 30 | 1 58 | 14 22 | | n.a. |
| S 18 | 18 51 | 8 8 | 2 54 | 21 58 | 1 42 | 22 51 | 1 26 | 24 58 | 1 16 | 11 9 | 0 58 | 23 30 | 0 32 | 19 15 | 0 7 | 21 50 | 1 7 | 13 27 | 7 2 | 2 30 | 1 57 | 14 21 | | n.a. |
| M19 | 19 7 | 4 31 | 1 56 | 22 22 | 1 46 | 22 32 | 1 11 | 24 57 | 1 16 | 11 13 | 0 58 | 23 30 | 0 32 | 19 14 | 0 7 | 21 50 | 1 7 | 13 26 | 7 2 | 2 30 | 1 55 | 14 19 | | n.a. |
| T 20 | 19 21 | 0 38 | 0 53 | 22 46 | 1 50 | 22 11 | 0 56 | 24 56 | 1 16 | 11 18 | 0 58 | 23 29 | 0 32 | 19 14 | 0 7 | 21 50 | 1 7 | 13 26 | 7 2 | 2 31 | 1 54 | 14 18 | | n.a. |
| W21 | 19 36 | 3n22 | 0s15 | 23 8 | 1 53 | 21 50 | 0 41 | 24 55 | 1 16 | 11 22 | 0 58 | 23 29 | 0 32 | 19 13 | 0 7 | 21 50 | 1 7 | 13 26 | 7 2 | 2 31 | 1 53 | 14 17 | | n.a. |
| T 22 | 19 50 | 7 20 | 1 23 | 23 28 | 1 57 | 21 28 | 0 26 | 24 53 | 1 16 | 11 27 | 0 58 | 23 28 | 0 32 | 19 12 | 0 7 | 21 50 | 1 7 | 13 26 | 7 2 | 2 30 | 1 51 | 14 16 | | n.a. |
| F 23 | 20 4 | 11 4 | 2 29 | 23 48 | 2 0 | 21 6 | 0 11 | 24 51 | 1 16 | 11 31 | 0 58 | 23 28 | 0 32 | 19 12 | 0 7 | 21 49 | 1 7 | 13 26 | 7 2 | 2 29 | 1 50 | 14 14 | | n.a. |
| S 24 | 20 18 | 14 18 | 3 28 | 24 6 | 2 2 | 20 43 | 0n 5 | 24 49 | 1 16 | 11 35 | 0 58 | 23 27 | 0 32 | 19 11 | 0 7 | 21 49 | 1 7 | 13 25 | 7 2 | 2 27 | 1 49 | 14 13 | | n.a. |
| S 25 | 20 31 | 16 48 | 4 16 | 24 22 | 2 5 | 20 21 | 0 21 | 24 46 | 1 16 | 11 40 | 0 58 | 23 26 | 0 32 | 19 11 | 0 7 | 21 49 | 1 7 | 13 25 | 7 2 | 2 23 | 1 48 | 14 12 | | n.a. |
| M26 | 20 43 | 18 18 | 4 49 | 24 38 | 2 6 | 19 58 | 0 36 | 24 44 | 1 16 | 11 44 | 0 58 | 23 26 | 0 32 | 19 10 | 0 7 | 21 49 | 1 7 | 13 25 | 7 2 | 2 20 | 1 46 | 14 11 | | n.a. |
| T 27 | 20 56 | 18 37 | 5 4 | 24 51 | 2 8 | 19 35 | 0 52 | 24 41 | 1 15 | 11 48 | 0 58 | 23 25 | 0 32 | 19 9 | 0 7 | 21 49 | 1 7 | 13 25 | 7 2 | 2 16 | 1 45 | 14 9 | | n.a. |
| W28 | 21 7 | 17 43 | 4 59 | 25 4 | 2 9 | 19 12 | 1 7 | 24 37 | 1 15 | 11 53 | 0 58 | 23 25 | 0 32 | 19 9 | 0 7 | 21 49 | 1 7 | 13 25 | 7 2 | 2 12 | 1 44 | 14 8 | | n.a. |
| T 29 | 21 19 | 15 40 | 4 35 | 25 14 | 2 10 | 18 50 | 1 22 | 24 34 | 1 15 | 11 57 | 0 58 | 23 24 | 0 32 | 19 8 | 0 7 | 21 48 | 1 7 | 13 24 | 7 2 | 2 10 | 1 43 | 14 7 | | n.a. |
| F 30 | 21s30 | 12n40 | 3s54 | 25s23 | 2s10 | 18s28 | 1n37 | 24s30 | 1s15 | 12s 1 | 0n58 | 23s23 | 0s32 | 19n 7 | 0s 7 | 21n48 | 1s 7 | 13n24 | 7s 2 | 2s 8 | 1s41 | 14s 6 | | n.a. |

Julian Day Number = 1695794.5, Delta T = 03h08m07s
Ecliptic obliquity = 23°42'04, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°01'58, Lahiri = - 4°54'58 Julian Calendar 1 Nov. 71 BCE == Greg. Calendar 30 Oct. 071 BCE

The year -70 astronomical counting style corresponds to year 071 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 71 BCE
# geocentric

## DECEMBER 71 BCE (-70) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 4 27 13 | 6♐46'32 | 29♌40 | 20♐25 | 27°R56 | 11♑42 | 4♏ 0 | 15♑ 1 | 25°R 0 | 15°R39 | 29°R30 | 5°R17 | 4♎ 9 | 9♒15 | n.a. | S 1 |
| S 2 | 4 31 9 | 7°47'48 | 13♍38 | 22° 0 | 27♏24 | 12°29 | 4°12 | 15° 7 | 24♉58 | 15♊37 | 29♉29 | 5°D17 | 4° 6 | 9°22 | n.a. | S 2 |
| M 3 | 4 35 6 | 8°49'03 | 27°24 | 23°34 | 26°54 | 13°16 | 4°25 | 15°14 | 24°55 | 15°36 | 29°28 | 5♎18 | 4° 3 | 9°29 | n.a. | M 3 |
| T 4 | 4 39 2 | 9°50'19 | 10♎56 | 25° 7 | 26°25 | 14° 3 | 4°37 | 15°20 | 24°53 | 15°34 | 29°27 | 5°R18 | 3°59 | 9°35 | n.a. | T 4 |
| W 5 | 4 42 59 | 10°51'35 | 24°17 | 26°40 | 25°58 | 14°51 | 4°49 | 15°26 | 24°50 | 15°32 | 29°26 | 5°16 | 3°56 | 9°42 | n.a. | W 5 |
| T 6 | 4 46 55 | 11°52'51 | 7♏27 | 28°11 | 25°34 | 15°38 | 5° 1 | 15°33 | 24°48 | 15°31 | 29°24 | 5°12 | 3°53 | 9°49 | n.a. | T 6 |
| F 7 | 4 50 52 | 12°54'08 | 20°26 | 29°41 | 25°11 | 16°25 | 5°13 | 15°39 | 24°45 | 15°29 | 29°23 | 5° 4 | 3°50 | 9°55 | n.a. | F 7 |
| S 8 | 4 54 49 | 13°55'24 | 3♐15 | 1♑10 | 24°51 | 17°12 | 5°25 | 15°46 | 24°43 | 15°27 | 29°22 | 4°54 | 3°47 | 10° 2 | n.a. | S 8 |
| S 9 | 4 58 45 | 14°56'40 | 15°52 | 2°36 | 24°33 | 17°59 | 5°37 | 15°52 | 24°41 | 15°26 | 29°21 | 4°42 | 3°44 | 10° 9 | n.a. | S 9 |
| M10 | 5 2 42 | 15°57'56 | 28°18 | 3°59 | 24°17 | 18°46 | 5°48 | 15°59 | 24°38 | 15°24 | 29°20 | 4°28 | 3°40 | 10°15 | n.a. | M10 |
| T 11 | 5 6 38 | 16°59'11 | 10♑33 | 5°20 | 24° 4 | 19°33 | 6° 0 | 16° 5 | 24°36 | 15°22 | 29°19 | 4°15 | 3°37 | 10°22 | n.a. | T 11 |
| W12 | 5 10 35 | 18° 0'26 | 22°37 | 6°37 | 23°53 | 20°20 | 6°12 | 16°12 | 24°34 | 15°20 | 29°18 | 4° 2 | 3°34 | 10°29 | n.a. | W12 |
| T 13 | 5 14 31 | 19° 1'40 | 4♒33 | 7°51 | 23°45 | 21° 8 | 6°23 | 16°19 | 24°31 | 15°19 | 29°16 | 3°52 | 3°31 | 10°36 | n.a. | T 13 |
| F 14 | 5 18 28 | 20° 2'54 | 16°23 | 8°59 | 23°40 | 21°55 | 6°35 | 16°25 | 24°29 | 15°17 | 29°15 | 3°44 | 3°28 | 10°42 | n.a. | F 14 |
| S 15 | 5 22 25 | 21° 4'06 | 28°12 | 10° 2 | 23°36 | 22°42 | 6°46 | 16°32 | 24°27 | 15°15 | 29°14 | 3°40 | 3°25 | 10°49 | n.a. | S 15 |
| S 16 | 5 26 21 | 22° 5'18 | 10♓ 3 | 10°58 | 23°D36 | 23°29 | 6°57 | 16°39 | 24°25 | 15°14 | 29°13 | 3°37 | 3°21 | 10°56 | n.a. | S 16 |
| M17 | 5 30 18 | 23° 6'30 | 22° 1 | 11°47 | 23°37 | 24°16 | 7° 9 | 16°46 | 24°22 | 15°12 | 29°12 | 3°D37 | 3°18 | 11° 2 | n.a. | M17 |
| T 18 | 5 34 14 | 24° 7'40 | 4♈13 | 12°28 | 23°41 | 25° 3 | 7°20 | 16°53 | 24°20 | 15°10 | 29°11 | 3°R37 | 3°15 | 11° 9 | n.a. | T 18 |
| W19 | 5 38 11 | 25° 8'49 | 16°43 | 13° 0 | 23°48 | 25°50 | 7°31 | 17° 0 | 24°18 | 15° 9 | 29°10 | 3°36 | 3°12 | 11°16 | n.a. | W19 |
| T 20 | 5 42 7 | 26° 9'58 | 29°37 | 13°22 | 23°56 | 26°37 | 7°42 | 17° 6 | 24°16 | 15° 7 | 29° 9 | 3°34 | 3° 9 | 11°22 | n.a. | T 20 |
| F 21 | 5 46 4 | 27°11'05 | 12♉58 | 13°34 | 24° 7 | 27°24 | 7°53 | 17°13 | 24°14 | 15° 5 | 29° 8 | 3°29 | 3° 5 | 11°29 | n.a. | F 21 |
| S 22 | 5 50 0 | 28°12'12 | 26°48 | 13°R34 | 24°20 | 28°11 | 8° 4 | 17°20 | 24°12 | 15° 4 | 29° 7 | 3°22 | 3° 2 | 11°36 | n.a. | S 22 |
| S 23 | 5 53 57 | 29°13'18 | 11♊ 5 | 13°23 | 24°36 | 28°58 | 8°14 | 17°27 | 24°10 | 15° 2 | 29° 6 | 3°12 | 2°59 | 11°43 | n.a. | S 23 |
| M24 | 5 57 54 | 0♑14'22 | 25°46 | 13° 0 | 24°53 | 29°45 | 8°25 | 17°34 | 24° 8 | 15° 0 | 29° 5 | 3° 0 | 2°56 | 11°49 | n.a. | M24 |
| T 25 | 6 1 50 | 1°15'26 | 10♋43 | 12°26 | 25°12 | 0♒32 | 8°35 | 17°41 | 24° 6 | 14°59 | 29° 4 | 2°48 | 2°53 | 11°56 | n.a. | T 25 |
| W26 | 6 5 47 | 2°16'29 | 25°45 | 11°42 | 25°34 | 1°19 | 8°46 | 17°48 | 24° 4 | 14°57 | 29° 3 | 2°37 | 2°50 | 12° 3 | n.a. | W26 |
| T 27 | 6 9 43 | 3°17'31 | 10♌44 | 10°47 | 25°57 | 2° 6 | 8°56 | 17°56 | 24° 3 | 14°55 | 29° 2 | 2°28 | 2°46 | 12° 9 | n.a. | T 27 |
| F 28 | 6 13 40 | 4°18'33 | 25°31 | 9°45 | 26°22 | 2°53 | 9° 6 | 18° 3 | 24° 1 | 14°54 | 29° 1 | 2°22 | 2°43 | 12°16 | n.a. | F 28 |
| S 29 | 6 17 36 | 5°19'33 | 9♍59 | 8°36 | 26°48 | 3°40 | 9°17 | 18°10 | 23°59 | 14°52 | 29° 0 | 2°18 | 2°40 | 12°23 | n.a. | S 29 |
| S 30 | 6 21 33 | 6°20'33 | 24° 7 | 7°23 | 27°17 | 4°27 | 9°27 | 18°17 | 23°57 | 14°51 | 28°59 | 2°17 | 2°37 | 12°29 | n.a. | S 30 |
| M31 | 6 25 29 | 7♑21'32 | 7♎53 | 6♑ 8 | 27♏47 | 5♒14 | 9♏37 | 18♑24 | 23♉56 | 14♊49 | 28♉58 | 2♎17 | 2♎34 | 12♒36 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21s41 | 8n56 | 2s58 | 25s30 | 2s10 | 18s 6 | 1n51 | 24s25 | 1s15 | 12s 5 | 0n58 | 23s23 | 0s32 | 19n 7 | 0s 7 | 21n48 | 1s 7 | 13n24 | 7s 2 | 2s 7 | 1s40 | 14s 4 | | n.a. |
| S 2 | 21 51 | 4 46 | 1 53 | 25 36 | 2 9 | 17 45 | 2 6 | 24 21 | 1 15 | 12 9 | 0 58 | 23 22 | 0 32 | 19 6 | 0 7 | 21 48 | 1 7 | 13 24 | 7 2 | 2 7 | 1 39 | 14 3 | | n.a. |
| M 3 | 22 1 | 0 24 | 0 42 | 25 40 | 2 7 | 17 25 | 2 19 | 24 16 | 1 15 | 12 14 | 0 58 | 23 21 | 0 32 | 19 6 | 0 7 | 21 48 | 1 7 | 13 24 | 7 1 | 2 7 | 1 37 | 14 2 | | n.a. |
| T 4 | 22 10 | 3s55 | 0n30 | 25 42 | 2 5 | 17 6 | 2 32 | 24 11 | 1 14 | 12 18 | 0 58 | 23 21 | 0 32 | 19 5 | 0 7 | 21 47 | 1 7 | 13 23 | 7 1 | 2 8 | 1 36 | 14 1 | | n.a. |
| W 5 | 22 19 | 7 59 | 1 39 | 25 42 | 2 3 | 16 47 | 2 45 | 24 6 | 1 14 | 12 22 | 0 58 | 23 20 | 0 32 | 19 5 | 0 7 | 21 47 | 1 7 | 13 23 | 7 1 | 2 7 | 1 35 | 13 59 | | n.a. |
| T 6 | 22 28 | 11 36 | 2 42 | 25 41 | 1 59 | 16 29 | 2 57 | 24 0 | 1 14 | 12 26 | 0 58 | 23 19 | 0 32 | 19 4 | 0 7 | 21 47 | 1 7 | 13 23 | 7 1 | 2 5 | 1 34 | 13 58 | | n.a. |
| F 7 | 22 36 | 14 35 | 3 36 | 25 37 | 1 55 | 16 13 | 3 9 | 23 54 | 1 14 | 12 30 | 0 58 | 23 19 | 0 32 | 19 3 | 0 7 | 21 47 | 1 7 | 13 23 | 7 1 | 2 2 | 1 32 | 13 57 | | n.a. |
| S 8 | 22 43 | 16 50 | 4 17 | 25 32 | 1 50 | 15 57 | 3 20 | 23 48 | 1 14 | 12 34 | 0 58 | 23 18 | 0 33 | 19 3 | 0 7 | 21 47 | 1 7 | 13 23 | 7 1 | 1 58 | 1 31 | 13 55 | | n.a. |
| S 9 | 22 50 | 18 13 | 4 45 | 25 25 | 1 45 | 15 43 | 3 30 | 23 41 | 1 13 | 12 38 | 0 58 | 23 17 | 0 33 | 19 2 | 0 7 | 21 47 | 1 7 | 13 23 | 7 1 | 1 53 | 1 30 | 13 54 | | n.a. |
| M10 | 22 57 | 18 42 | 4 59 | 25 16 | 1 38 | 15 29 | 3 40 | 23 35 | 1 13 | 12 42 | 0 58 | 23 16 | 0 33 | 19 2 | 0 7 | 21 46 | 1 7 | 13 23 | 7 1 | 1 48 | 1 29 | 13 53 | | n.a. |
| T 11 | 23 3 | 18 18 | 4 59 | 25 6 | 1 30 | 15 17 | 3 49 | 23 28 | 1 13 | 12 45 | 0 58 | 23 16 | 0 33 | 19 1 | 0 7 | 21 46 | 1 7 | 13 22 | 7 1 | 1 42 | 1 27 | 13 52 | | n.a. |
| W12 | 23 9 | 17 5 | 4 46 | 24 54 | 1 22 | 15 6 | 3 58 | 23 20 | 1 13 | 12 49 | 0 58 | 23 15 | 0 33 | 19 1 | 0 7 | 21 46 | 1 7 | 13 22 | 7 1 | 1 37 | 1 26 | 13 50 | | n.a. |
| T 13 | 23 14 | 15 8 | 4 20 | 24 40 | 1 12 | 14 57 | 4 6 | 23 13 | 1 12 | 12 53 | 0 58 | 23 14 | 0 33 | 19 0 | 0 7 | 21 46 | 1 7 | 13 22 | 7 1 | 1 33 | 1 25 | 13 49 | | n.a. |
| F 14 | 23 19 | 12 33 | 3 43 | 24 25 | 1 2 | 14 48 | 4 14 | 23 5 | 1 12 | 12 57 | 0 58 | 23 13 | 0 33 | 18 59 | 0 7 | 21 46 | 1 7 | 13 22 | 7 0 | 1 30 | 1 23 | 13 48 | | n.a. |
| S 15 | 23 24 | 9 29 | 2 56 | 24 9 | 0 50 | 14 40 | 4 21 | 22 57 | 1 12 | 13 1 | 0 58 | 23 12 | 0 33 | 18 59 | 0 7 | 21 46 | 1 7 | 13 22 | 7 0 | 1 28 | 1 22 | 13 46 | | n.a. |
| S 16 | 23 28 | 6 1 | 2 1 | 23 52 | 0 37 | 14 34 | 4 27 | 22 49 | 1 12 | 13 4 | 0 58 | 23 12 | 0 33 | 18 58 | 0 7 | 21 45 | 1 7 | 13 22 | 7 0 | 1 27 | 1 21 | 13 45 | | n.a. |
| M17 | 23 31 | 2 16 | 1 1 | 23 33 | 0 23 | 14 29 | 4 33 | 22 40 | 1 11 | 13 8 | 0 58 | 23 11 | 0 33 | 18 58 | 0 7 | 21 45 | 1 7 | 13 22 | 7 0 | 1 27 | 1 20 | 13 44 | | n.a. |
| T 18 | 23 34 | 1n39 | 0s 3 | 23 15 | 0 8 | 14 25 | 4 38 | 22 31 | 1 11 | 13 11 | 0 58 | 23 10 | 0 33 | 18 57 | 0 7 | 21 45 | 1 7 | 13 22 | 7 0 | 1 27 | 1 18 | 13 43 | | n.a. |
| W19 | 23 37 | 5 35 | 1 9 | 22 56 | 0n 8 | 14 22 | 4 43 | 22 22 | 1 11 | 13 15 | 0 58 | 23 9 | 0 33 | 18 57 | 0 7 | 21 45 | 1 7 | 13 21 | 7 0 | 1 27 | 1 17 | 13 41 | | n.a. |
| T 20 | 23 39 | 9 23 | 2 13 | 22 37 | 0 25 | 14 20 | 4 47 | 22 13 | 1 10 | 13 19 | 0 58 | 23 8 | 0 33 | 18 56 | 0 7 | 21 45 | 1 7 | 13 21 | 7 0 | 1 26 | 1 16 | 13 40 | | n.a. |
| F 21 | 23 40 | 12 51 | 3 12 | 22 18 | 0 42 | 14 19 | 4 51 | 22 3 | 1 10 | 13 22 | 0 58 | 23 8 | 0 33 | 18 56 | 0 7 | 21 45 | 1 7 | 13 21 | 7 0 | 1 24 | 1 15 | 13 39 | | n.a. |
| S 22 | 23 41 | 15 44 | 4 2 | 22 0 | 1 1 | 14 18 | 4 54 | 21 53 | 1 10 | 13 26 | 0 58 | 23 7 | 0 33 | 18 55 | 0 7 | 21 44 | 1 7 | 13 21 | 7 0 | 1 21 | 1 13 | 13 37 | | n.a. |
| S 23 | 23 42 | 17 45 | 4 38 | 21 42 | 1 19 | 14 19 | 4 57 | 21 43 | 1 10 | 13 29 | 0 58 | 23 6 | 0 33 | 18 55 | 0 7 | 21 44 | 1 7 | 13 21 | 6 59 | 1 17 | 1 12 | 13 36 | | n.a. |
| M24 | 23 42 | 18 40 | 4 58 | 21 26 | 1 38 | 14 21 | 5 0 | 21 33 | 1 9 | 13 32 | 0 59 | 23 5 | 0 33 | 18 54 | 0 7 | 21 44 | 1 7 | 13 21 | 6 59 | 1 12 | 1 11 | 13 35 | | n.a. |
| T 25 | 23 42 | 18 19 | 4 57 | 21 10 | 1 57 | 14 24 | 5 2 | 21 23 | 1 9 | 13 36 | 0 59 | 23 4 | 0 33 | 18 54 | 0 7 | 21 44 | 1 7 | 13 21 | 6 59 | 1 7 | 1 9 | 13 33 | | n.a. |
| W26 | 23 41 | 16 42 | 4 36 | 20 56 | 2 15 | 14 27 | 5 3 | 21 12 | 1 9 | 13 39 | 0 59 | 23 3 | 0 34 | 18 53 | 0 6 | 21 44 | 1 7 | 13 21 | 6 59 | 1 3 | 1 8 | 13 32 | | n.a. |
| T 27 | 23 40 | 13 56 | 3 56 | 20 44 | 2 32 | 14 31 | 5 5 | 21 1 | 1 8 | 13 42 | 0 59 | 23 2 | 0 34 | 18 53 | 0 6 | 21 44 | 1 7 | 13 21 | 6 59 | 0 59 | 1 7 | 13 31 | | n.a. |
| F 28 | 23 38 | 10 19 | 3 1 | 20 33 | 2 48 | 14 36 | 5 6 | 20 50 | 1 8 | 13 46 | 0 59 | 23 1 | 0 34 | 18 53 | 0 6 | 21 43 | 1 7 | 13 21 | 6 59 | 0 57 | 1 6 | 13 30 | | n.a. |
| S 29 | 23 36 | 6 8 | 1 55 | 20 23 | 3 2 | 14 41 | 5 6 | 20 38 | 1 8 | 13 49 | 0 59 | 23 1 | 0 34 | 18 52 | 0 6 | 21 43 | 1 7 | 13 21 | 6 59 | 0 56 | 1 4 | 13 28 | | n.a. |
| S 30 | 23 33 | 1 42 | 0 43 | 20 16 | 3 14 | 14 47 | 5 7 | 20 27 | 1 7 | 13 52 | 0 59 | 23 0 | 0 34 | 18 52 | 0 6 | 21 43 | 1 7 | 13 21 | 6 58 | 0 55 | 1 3 | 13 27 | | n.a. |
| M31 | 23s30 | 2s43 | 0n30 | 20s10 | 3n24 | 14s54 | 5n 7 | 20s15 | 1s 7 | 13s55 | 0n59 | 22s59 | 0s34 | 18n51 | 0s 6 | 21n43 | 1s 7 | 13n20 | 6s58 | 0s55 | 1s 2 | 13s26 | | n.a. |

Julian Day Number = 1695824.5, Delta T = 03h08m06s
Ecliptic obliquity = 23°42'03, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°01'54, Lahiri = - 4°54'54 Julian Calendar 1 Dec. 71 BCE == Greg. Calendar 29 Nov. 071 BCE

The year -70 astronomical counting style corresponds to year 071 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 70 BCE
# geocentric

## JANUARY 70 BCE (-69) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 29 26 | 8♑22'30 | 21♎19 | 4°R53 | 28♏18 | 6♒ 1 | 9♏46 | 18♑31 | 23°R54 | 14°R48 | 28°R57 | 2°R17 | 2♎31 | 12♒43 | n.a. | T 1 |
| W 2 | 6 33 23 | 9°23'28 | 4♏28 | 3♑40 | 28°51 | 6°48 | 9°56 | 18°38 | 23♉52 | 14♊46 | 28♉56 | 2♎15 | 2°27 | 12°49 | n.a. | W 2 |
| T 3 | 6 37 19 | 10°24'24 | 17°21 | 2°32 | 29°26 | 7°35 | 10° 6 | 18°45 | 23°51 | 14°45 | 28°55 | 2°10 | 2°24 | 12°56 | n.a. | T 3 |
| F 4 | 6 41 16 | 11°25'20 | 0♐ 2 | 1°30 | 0♐ 2 | 8°21 | 10°15 | 18°53 | 23°49 | 14°43 | 28°55 | 2° 2 | 2°21 | 13° 3 | n.a. | F 4 |
| S 5 | 6 45 12 | 12°26'14 | 12°32 | 0°34 | 0°39 | 9° 8 | 10°25 | 19° 0 | 23°48 | 14°42 | 28°54 | 1°52 | 2°18 | 13°10 | n.a. | S 5 |
| S 6 | 6 49 9 | 13°27'08 | 24°52 | 29♐46 | 1°17 | 9°55 | 10°34 | 19° 7 | 23°46 | 14°40 | 28°53 | 1°39 | 2°15 | 13°16 | n.a. | S 6 |
| M 7 | 6 53 5 | 14°28'00 | 7♑ 5 | 29° 6 | 1°57 | 10°42 | 10°43 | 19°14 | 23°45 | 14°39 | 28°52 | 1°25 | 2°11 | 13°23 | n.a. | M 7 |
| T 8 | 6 57 2 | 15°28'51 | 19° 9 | 28°34 | 2°38 | 11°29 | 10°52 | 19°22 | 23°44 | 14°37 | 28°51 | 1°10 | 2° 8 | 13°30 | n.a. | T 8 |
| W 9 | 7 0 58 | 16°29'40 | 1♒ 7 | 28°11 | 3°20 | 12°15 | 11° 1 | 19°29 | 23°42 | 14°36 | 28°51 | 0°57 | 2° 5 | 13°36 | n.a. | W 9 |
| T 10 | 7 4 55 | 17°30'28 | 12°59 | 27°56 | 4° 3 | 13° 2 | 11°10 | 19°36 | 23°41 | 14°35 | 28°50 | 0°46 | 2° 2 | 13°43 | n.a. | T 10 |
| F 11 | 7 8 52 | 18°31'14 | 24°48 | 27°D49 | 4°47 | 13°49 | 11°19 | 19°43 | 23°40 | 14°33 | 28°49 | 0°37 | 1°59 | 13°50 | n.a. | F 11 |
| S 12 | 7 12 48 | 19°31'59 | 6♓36 | 27°49 | 5°32 | 14°35 | 11°27 | 19°51 | 23°39 | 14°32 | 28°48 | 0°32 | 1°56 | 13°56 | n.a. | S 12 |
| S 13 | 7 16 45 | 20°32'42 | 18°26 | 27°57 | 6°18 | 15°22 | 11°36 | 19°58 | 23°38 | 14°31 | 28°48 | 0°29 | 1°52 | 14° 3 | n.a. | S 13 |
| M14 | 7 20 41 | 21°33'23 | 0♈23 | 28°11 | 7° 5 | 16° 8 | 11°44 | 20° 5 | 23°37 | 14°29 | 28°47 | 0°D29 | 1°49 | 14°10 | n.a. | M14 |
| T 15 | 7 24 38 | 22°34'03 | 12°32 | 28°31 | 7°52 | 16°55 | 11°52 | 20°12 | 23°36 | 14°28 | 28°46 | 0°29 | 1°46 | 14°16 | n.a. | T 15 |
| W16 | 7 28 34 | 23°34'40 | 24°58 | 28°57 | 8°41 | 17°41 | 12° 0 | 20°19 | 23°35 | 14°27 | 28°46 | 0°R29 | 1°43 | 14°23 | n.a. | W16 |
| T 17 | 7 32 31 | 24°35'16 | 7♉46 | 29°28 | 9°30 | 18°28 | 12° 8 | 20°27 | 23°34 | 14°25 | 28°45 | 0°28 | 1°40 | 14°30 | n.a. | T 17 |
| F 18 | 7 36 27 | 25°35'50 | 21° 1 | 0♑ 3 | 10°20 | 19°14 | 12°16 | 20°34 | 23°33 | 14°24 | 28°45 | 0°25 | 1°36 | 14°36 | n.a. | F 18 |
| S 19 | 7 40 24 | 26°36'22 | 4♊45 | 0°44 | 11°11 | 20° 1 | 12°24 | 20°41 | 23°32 | 14°23 | 28°44 | 0°20 | 1°33 | 14°43 | n.a. | S 19 |
| S 20 | 7 44 21 | 27°36'52 | 19° 0 | 1°28 | 12° 3 | 20°47 | 12°31 | 20°48 | 23°31 | 14°22 | 28°43 | 0°13 | 1°30 | 14°50 | n.a. | S 20 |
| M21 | 7 48 17 | 28°37'20 | 3♋43 | 2°16 | 12°55 | 21°34 | 12°39 | 20°56 | 23°31 | 14°21 | 28°43 | 0° 3 | 1°27 | 14°57 | n.a. | M21 |
| T 22 | 7 52 14 | 29°37'47 | 18°46 | 3° 8 | 13°48 | 22°20 | 12°46 | 21° 3 | 23°30 | 14°20 | 28°42 | 29♍54 | 1°24 | 15° 3 | n.a. | T 22 |
| W23 | 7 56 10 | 0♒38'11 | 4♌ 2 | 4° 2 | 14°42 | 23° 6 | 12°53 | 21°10 | 23°30 | 14°19 | 28°42 | 29°45 | 1°21 | 15°10 | n.a. | W23 |
| T 24 | 8 0 7 | 1°38'34 | 19°18 | 5° 0 | 15°36 | 23°52 | 13° 0 | 21°17 | 23°29 | 14°18 | 28°41 | 29°38 | 1°17 | 15°17 | n.a. | T 24 |
| F 25 | 8 4 3 | 2°38'55 | 4♍25 | 6° 0 | 16°31 | 24°39 | 13° 7 | 21°24 | 23°29 | 14°17 | 28°41 | 29°33 | 1°14 | 15°23 | n.a. | F 25 |
| S 26 | 8 8 0 | 3°39'14 | 19°13 | 7° 3 | 17°26 | 25°25 | 13°14 | 21°31 | 23°28 | 14°16 | 28°41 | 29°30 | 1°11 | 15°30 | n.a. | S 26 |
| S 27 | 8 11 56 | 4°39'32 | 3♎37 | 8° 9 | 18°22 | 26°11 | 13°20 | 21°39 | 23°28 | 14°15 | 28°40 | 29°D30 | 1° 8 | 15°37 | n.a. | S 27 |
| M28 | 8 15 53 | 5°39'48 | 17°36 | 9°16 | 19°19 | 26°57 | 13°26 | 21°46 | 23°27 | 14°14 | 28°40 | 29°31 | 1° 5 | 15°43 | n.a. | M28 |
| T 29 | 8 19 50 | 6°40'03 | 1♏ 8 | 10°26 | 20°16 | 27°43 | 13°33 | 21°53 | 23°27 | 14°13 | 28°39 | 29°R31 | 1° 2 | 15°50 | n.a. | T 29 |
| W30 | 8 23 46 | 7°40'16 | 14°17 | 11°38 | 21°13 | 28°29 | 13°39 | 22° 0 | 23°27 | 14°12 | 28°39 | 29°31 | 0°58 | 15°57 | n.a. | W30 |
| T 31 | 8 27 43 | 8♒40'27 | 27♏ 6 | 12♑51 | 22♐11 | 29♒15 | 13♏45 | 22♑ 7 | 23♉27 | 14♊11 | 28♉39 | 29♍30 | 0♎55 | 16♒ 3 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 23s26 | 6s53 | 1n39 | 20s 5 | 3n31 | 15s 1 | 5n 6 | 20s 3 | 1s 6 | 13s58 | 0n59 | 22s58 | 0s34 | 18n51 | 0s 6 | 21n43 | 1s 7 | 13n20 | 6s58 | 0s55 | 1s 0 | 13s24 | | | n.a. |
| W 2 | 23 22 | 10 37 | 2 41 | 20 3 | 3 36 | 15 9 | 5 6 | 19 50 | 1 6 | 14 1 | 0 59 | 22 57 | 0 34 | 18 51 | 0 6 | 21 43 | 1 7 | 13 20 | 6 58 | 0 54 | 0 59 | 13 23 | | | n.a. |
| T 3 | 23 17 | 13 46 | 3 34 | 20 2 | 3 39 | 15 17 | 5 5 | 19 38 | 1 6 | 14 4 | 0 59 | 22 56 | 0 34 | 18 50 | 0 6 | 21 43 | 1 7 | 13 20 | 6 58 | 0 52 | 0 58 | 13 22 | | | n.a. |
| F 4 | 23 12 | 16 13 | 4 15 | 20 3 | 3 39 | 15 26 | 5 4 | 19 25 | 1 5 | 14 7 | 0 59 | 22 55 | 0 34 | 18 50 | 0 6 | 21 42 | 1 7 | 13 20 | 6 58 | 0 49 | 0 57 | 13 20 | | | n.a. |
| S 5 | 23 7 | 17 51 | 4 44 | 20 5 | 3 37 | 15 35 | 5 2 | 19 12 | 1 5 | 14 10 | 0 59 | 22 54 | 0 34 | 18 49 | 0 6 | 21 42 | 1 7 | 13 20 | 6 57 | 0 45 | 0 55 | 13 19 | | | n.a. |
| S 6 | 23 1 | 18 38 | 4 58 | 20 9 | 3 33 | 15 44 | 5 1 | 18 59 | 1 4 | 14 13 | 0 59 | 22 53 | 0 34 | 18 49 | 0 6 | 21 42 | 1 7 | 13 20 | 6 57 | 0 40 | 0 54 | 13 18 | | | n.a. |
| M 7 | 22 54 | 18 32 | 4 59 | 20 14 | 3 28 | 15 54 | 4 59 | 18 46 | 1 4 | 14 16 | 0 59 | 22 52 | 0 34 | 18 49 | 0 6 | 21 42 | 1 7 | 13 20 | 6 57 | 0 34 | 0 53 | 13 16 | | | n.a. |
| T 8 | 22 47 | 17 36 | 4 46 | 20 21 | 3 21 | 16 4 | 4 57 | 18 33 | 1 4 | 14 18 | 1 0 | 22 51 | 0 34 | 18 48 | 0 6 | 21 42 | 1 7 | 13 20 | 6 57 | 0 28 | 0 52 | 13 15 | | | n.a. |
| W 9 | 22 40 | 15 54 | 4 20 | 20 28 | 3 13 | 16 14 | 4 55 | 18 19 | 1 3 | 14 21 | 1 0 | 22 50 | 0 34 | 18 48 | 0 6 | 21 42 | 1 7 | 13 20 | 6 57 | 0 23 | 0 50 | 13 14 | | | n.a. |
| T 10 | 22 32 | 13 32 | 3 44 | 20 37 | 3 4 | 16 24 | 4 52 | 18 5 | 1 3 | 14 24 | 1 0 | 22 49 | 0 34 | 18 48 | 0 6 | 21 42 | 1 7 | 13 20 | 6 57 | 0 18 | 0 49 | 13 12 | | | n.a. |
| F 11 | 22 24 | 10 37 | 2 57 | 20 47 | 2 54 | 16 34 | 4 50 | 17 51 | 1 2 | 14 27 | 1 0 | 22 48 | 0 35 | 18 48 | 0 6 | 21 41 | 1 7 | 13 20 | 6 56 | 0 15 | 0 48 | 13 11 | | | n.a. |
| S 12 | 22 16 | 7 17 | 2 3 | 20 57 | 2 44 | 16 45 | 4 47 | 17 37 | 1 2 | 14 29 | 1 0 | 22 47 | 0 35 | 18 47 | 0 6 | 21 41 | 1 7 | 13 20 | 6 56 | 0 13 | 0 46 | 13 10 | | | n.a. |
| S 13 | 22 7 | 3 39 | 1 4 | 21 8 | 2 33 | 16 56 | 4 44 | 17 23 | 1 2 | 14 32 | 1 0 | 22 46 | 0 35 | 18 47 | 0 6 | 21 41 | 1 7 | 13 20 | 6 56 | 0 12 | 0 45 | 13 8 | | | n.a. |
| M14 | 21 57 | 0n10 | 0 0 | 21 19 | 2 22 | 17 7 | 4 41 | 17 9 | 1 1 | 14 34 | 1 0 | 22 45 | 0 35 | 18 47 | 0 6 | 21 41 | 1 7 | 13 20 | 6 56 | 0 11 | 0 44 | 13 7 | | | n.a. |
| T 15 | 21 47 | 4 2 | 1s 4 | 21 30 | 2 11 | 17 17 | 4 38 | 16 54 | 1 1 | 14 37 | 1 0 | 22 44 | 0 35 | 18 47 | 0 6 | 21 41 | 1 7 | 13 20 | 6 56 | 0 12 | 0 43 | 13 6 | | | n.a. |
| W16 | 21 37 | 7 48 | 2 7 | 21 42 | 2 0 | 17 28 | 4 34 | 16 39 | 1 0 | 14 39 | 1 0 | 22 43 | 0 35 | 18 46 | 0 6 | 21 41 | 1 7 | 13 20 | 6 56 | 0 12 | 0 41 | 13 4 | | | n.a. |
| T 17 | 21 26 | 11 20 | 3 5 | 21 54 | 1 48 | 17 39 | 4 31 | 16 24 | 1 0 | 14 41 | 1 0 | 22 42 | 0 35 | 18 46 | 0 6 | 21 41 | 1 7 | 13 21 | 6 55 | 0 11 | 0 40 | 13 3 | | | n.a. |
| F 18 | 21 15 | 14 25 | 3 56 | 22 5 | 1 37 | 17 50 | 4 27 | 16 9 | 0 59 | 14 44 | 1 0 | 22 41 | 0 35 | 18 46 | 0 6 | 21 41 | 1 6 | 13 21 | 6 55 | 0 10 | 0 39 | 13 2 | | | n.a. |
| S 19 | 21 4 | 16 49 | 4 35 | 22 16 | 1 26 | 18 1 | 4 24 | 15 54 | 0 59 | 14 46 | 1 0 | 22 40 | 0 35 | 18 46 | 0 6 | 21 41 | 1 6 | 13 21 | 6 55 | 0 8 | 0 38 | 13 0 | | | n.a. |
| S 20 | 20 52 | 18 17 | 4 58 | 22 27 | 1 15 | 18 11 | 4 20 | 15 39 | 0 58 | 14 48 | 1 1 | 22 39 | 0 35 | 18 46 | 0 6 | 21 40 | 1 6 | 13 21 | 6 55 | 0 5 | 0 36 | 12 59 | | | n.a. |
| M21 | 20 40 | 18 35 | 5 4 | 22 37 | 1 4 | 18 22 | 4 16 | 15 23 | 0 58 | 14 50 | 1 1 | 22 38 | 0 35 | 18 45 | 0 6 | 21 40 | 1 6 | 13 21 | 6 55 | 0 1 | 0 35 | 12 57 | | | n.a. |
| T 22 | 20 27 | 17 37 | 4 48 | 22 47 | 0 53 | 18 33 | 4 12 | 15 7 | 0 57 | 14 52 | 1 1 | 22 37 | 0 35 | 18 45 | 0 6 | 21 40 | 1 6 | 13 21 | 6 55 | 0n 2 | 0 34 | 12 56 | | | n.a. |
| W23 | 20 14 | 15 23 | 4 12 | 22 56 | 0 42 | 18 43 | 4 8 | 14 52 | 0 57 | 14 55 | 1 1 | 22 36 | 0 35 | 18 45 | 0 6 | 21 40 | 1 6 | 13 21 | 6 54 | 0 6 | 0 32 | 12 55 | | | n.a. |
| T 24 | 20 1 | 12 4 | 3 18 | 23 5 | 0 32 | 18 53 | 4 3 | 14 36 | 0 56 | 14 57 | 1 1 | 22 35 | 0 36 | 18 45 | 0 6 | 21 40 | 1 6 | 13 21 | 6 54 | 0 9 | 0 31 | 12 53 | | | n.a. |
| F 25 | 19 47 | 7 59 | 2 10 | 23 12 | 0 22 | 19 3 | 3 59 | 14 20 | 0 56 | 14 59 | 1 1 | 22 34 | 0 36 | 18 45 | 0 6 | 21 40 | 1 6 | 13 21 | 6 54 | 0 11 | 0 30 | 12 52 | | | n.a. |
| S 26 | 19 33 | 3 28 | 0 55 | 23 19 | 0 12 | 19 13 | 3 54 | 14 4 | 0 55 | 15 1 | 1 1 | 22 33 | 0 36 | 18 45 | 0 6 | 21 40 | 1 6 | 13 21 | 6 54 | 0 12 | 0 29 | 12 51 | | | n.a. |
| S 27 | 19 18 | 1s 7 | 0n22 | 23 25 | 0 2 | 19 22 | 3 50 | 13 47 | 0 55 | 15 2 | 1 1 | 22 32 | 0 36 | 18 45 | 0 6 | 21 40 | 1 6 | 13 21 | 6 54 | 0 12 | 0 27 | 12 49 | | | n.a. |
| M28 | 19 4 | 5 30 | 1 36 | 23 30 | 0s 7 | 19 31 | 3 45 | 13 31 | 0 55 | 15 4 | 1 1 | 22 31 | 0 36 | 18 45 | 0 6 | 21 40 | 1 6 | 13 21 | 6 53 | 0 12 | 0 26 | 12 48 | | | n.a. |
| T 29 | 18 49 | 9 28 | 2 42 | 23 33 | 0 16 | 19 40 | 3 41 | 13 14 | 0 54 | 15 6 | 1 1 | 22 30 | 0 36 | 18 45 | 0 6 | 21 40 | 1 6 | 13 22 | 6 53 | 0 11 | 0 25 | 12 46 | | | n.a. |
| W30 | 18 33 | 12 51 | 3 37 | 23 36 | 0 25 | 19 49 | 3 36 | 12 58 | 0 53 | 15 8 | 1 2 | 22 29 | 0 36 | 18 45 | 0 6 | 21 40 | 1 6 | 13 22 | 6 53 | 0 11 | 0 23 | 12 45 | | | n.a. |
| T 31 | 18s17 | 15s30 | 4n20 | 23s38 | 0s34 | 19s57 | 3n31 | 12s41 | 0s53 | 15s 9 | 1n 2 | 22s27 | 0s36 | 18n44 | 0s 6 | 21n40 | 1s 6 | 13n22 | 6s53 | 0n12 | 0s22 | 12s44 | | | n.a. |

Julian Day Number = 1695855.5, Delta T = 03h08m06s
Ecliptic obliquity = 23°42'03, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°01'50, Lahiri = - 4°54'50 Julian Calendar 1 Jan. 70 BCE == Greg. Calendar 30 Dec. 071 BCE

The year -69 astronomical counting style corresponds to year 070 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 70 BCE
# geocentric

## FEBRUARY 70 BCE (-69) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 8 31 39 | 9♒40'37 | 9♐39 | 14♑ 7 | 23♐ 9 | 0♓ 1 | 13♏50 | 22♑14 | 23°R27 | 14°R10 | 28°R38 | 29°R25 | 0♎52 | 16♒10 | n.a. | F 1 |
| S 2 | 8 35 36 | 10°40'45 | 21°58 | 15°24 | 24° 8 | 0°47 | 13°56 | 22°21 | 23♉27 | 14♊ 9 | 28♉38 | 29♍19 | 0°49 | 16°17 | n.a. | S 2 |
| S 3 | 8 39 32 | 11°40'51 | 4♑ 7 | 16°42 | 25° 7 | 1°33 | 14° 1 | 22°28 | 23°D27 | 14° 9 | 28°38 | 29°11 | 0°46 | 16°23 | n.a. | S 3 |
| M 4 | 8 43 29 | 12°40'56 | 16° 8 | 18° 2 | 26° 7 | 2°19 | 14° 7 | 22°35 | 23°27 | 14° 8 | 28°38 | 29° 2 | 0°42 | 16°30 | n.a. | M 4 |
| T 5 | 8 47 25 | 13°40'59 | 28° 4 | 19°24 | 27° 7 | 3° 4 | 14°12 | 22°42 | 23°27 | 14° 7 | 28°37 | 28°53 | 0°39 | 16°37 | n.a. | T 5 |
| W 6 | 8 51 22 | 14°40'59 | 9♒55 | 20°47 | 28° 7 | 3°50 | 14°17 | 22°49 | 23°27 | 14° 6 | 28°37 | 28°44 | 0°36 | 16°44 | n.a. | W 6 |
| T 7 | 8 55 19 | 15°40'58 | 21°45 | 22°11 | 29° 8 | 4°36 | 14°22 | 22°56 | 23°27 | 14° 6 | 28°37 | 28°37 | 0°33 | 16°50 | n.a. | T 7 |
| F 8 | 8 59 15 | 16°40'55 | 3♓34 | 23°37 | 0♑ 9 | 5°22 | 14°26 | 23° 2 | 23°27 | 14° 5 | 28°37 | 28°32 | 0°30 | 16°57 | n.a. | F 8 |
| S 9 | 9 3 12 | 17°40'49 | 15°24 | 25° 4 | 1°10 | 6° 7 | 14°31 | 23° 9 | 23°28 | 14° 5 | 28°37 | 28°29 | 0°27 | 17° 4 | n.a. | S 9 |
| S 10 | 9 7 8 | 18°40'42 | 27°19 | 26°32 | 2°12 | 6°53 | 14°35 | 23°16 | 23°28 | 14° 4 | 28°37 | 28°D28 | 0°23 | 17°10 | n.a. | S 10 |
| M11 | 9 11 5 | 19°40'32 | 9♈20 | 28° 2 | 3°14 | 7°38 | 14°39 | 23°23 | 23°28 | 14° 4 | 28°37 | 28°29 | 0°20 | 17°17 | n.a. | M11 |
| T 12 | 9 15 1 | 20°40'19 | 21°33 | 29°33 | 4°16 | 8°24 | 14°43 | 23°30 | 23°29 | 14° 3 | 28°37 | 28°30 | 0°17 | 17°24 | n.a. | T 12 |
| W13 | 9 18 58 | 21°40'05 | 4♉ 0 | 1♒ 5 | 5°19 | 9° 9 | 14°47 | 23°36 | 23°29 | 14° 3 | 28°37 | 28°32 | 0°14 | 17°30 | n.a. | W13 |
| T 14 | 9 22 54 | 22°39'48 | 16°46 | 2°38 | 6°22 | 9°55 | 14°50 | 23°43 | 23°30 | 14° 2 | 28°D37 | 28°R33 | 0°11 | 17°37 | n.a. | T 14 |
| F 15 | 9 26 51 | 23°39'29 | 29°55 | 4°13 | 7°25 | 10°40 | 14°54 | 23°50 | 23°31 | 14° 2 | 28°37 | 28°33 | 0° 8 | 17°44 | n.a. | F 15 |
| S 16 | 9 30 47 | 24°39'07 | 13♊30 | 5°49 | 8°28 | 11°25 | 14°57 | 23°56 | 23°31 | 14° 1 | 28°37 | 28°31 | 0° 4 | 17°50 | n.a. | S 16 |
| S 17 | 9 34 44 | 25°38'43 | 27°33 | 7°26 | 9°32 | 12°11 | 15° 0 | 24° 3 | 23°32 | 14° 1 | 28°37 | 28°29 | 0° 1 | 17°57 | n.a. | S 17 |
| M18 | 9 38 41 | 26°38'17 | 12♋ 3 | 9° 4 | 10°36 | 12°56 | 15° 3 | 24° 9 | 23°33 | 14° 1 | 28°37 | 28°25 | 29♍58 | 18° 4 | n.a. | M18 |
| T 19 | 9 42 37 | 27°37'49 | 26°56 | 10°44 | 11°40 | 13°41 | 15° 6 | 24°16 | 23°34 | 14° 1 | 28°37 | 28°20 | 29°55 | 18°10 | n.a. | T 19 |
| W20 | 9 46 34 | 28°37'18 | 12♌ 5 | 12°25 | 12°44 | 14°26 | 15° 8 | 24°22 | 23°35 | 14° 0 | 28°37 | 28°16 | 29°52 | 18°17 | n.a. | W20 |
| T 21 | 9 50 30 | 29°36'44 | 27°21 | 14° 7 | 13°49 | 15°11 | 15°10 | 24°28 | 23°36 | 14° 0 | 28°37 | 28°12 | 29°48 | 18°24 | n.a. | T 21 |
| F 22 | 9 54 27 | 0♓36'09 | 12♍32 | 15°50 | 14°54 | 15°56 | 15°13 | 24°35 | 23°37 | 14° 0 | 28°37 | 28°10 | 29°45 | 18°30 | n.a. | F 22 |
| S 23 | 9 58 23 | 1°35'31 | 27°30 | 17°35 | 15°59 | 16°41 | 15°15 | 24°41 | 23°38 | 14° 0 | 28°38 | 28°D10 | 29°42 | 18°37 | n.a. | S 23 |
| S 24 | 10 2 20 | 2°34'52 | 12♎ 8 | 19°21 | 17° 4 | 17°26 | 15°16 | 24°47 | 23°39 | 14° 0 | 28°38 | 28°10 | 29°39 | 18°44 | n.a. | S 24 |
| M25 | 10 6 16 | 3°34'10 | 26°19 | 21° 8 | 18° 9 | 18°11 | 15°18 | 24°54 | 23°40 | 14° 0 | 28°38 | 28°11 | 29°36 | 18°50 | n.a. | M25 |
| T 26 | 10 10 13 | 4°33'27 | 10♏ 3 | 22°57 | 19°15 | 18°56 | 15°19 | 25° 0 | 23°41 | 14°D 0 | 28°38 | 28°13 | 29°33 | 18°57 | n.a. | T 26 |
| W27 | 10 14 10 | 5°32'42 | 23°21 | 24°47 | 20°21 | 19°41 | 15°21 | 25° 6 | 23°42 | 14° 0 | 28°39 | 28°14 | 29°29 | 19° 4 | n.a. | W27 |
| T 28 | 10 18 6 | 6♓31'55 | 6♐14 | 26♒38 | 21♑26 | 20♓26 | 15♏22 | 25♑12 | 23♉44 | 14♊ 0 | 28♉39 | 28°R15 | 29♍26 | 19♒10 | n.a. | T 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 18s 1 | 17s22 | 4n49 | 23s38 | 0s42 | 20s 5 | 3n26 | 12s24 | 0s52 | 15s11 | 1n 2 | 22s26 | 0s36 | 18n44 | 0s 6 | 21n40 | 1s 6 | 13n22 | 6s53 | 0n14 | 0s21 | 12s42 | | n.a. |
| S 2 | 17 45 | 18 23 | 5 5 | 23 37 | 0 50 | 20 13 | 3 22 | 12 7 | 0 52 | 15 13 | 1 2 | 22 25 | 0 36 | 18 44 | 0 6 | 21 40 | 1 6 | 13 22 | 6 52 | 0 16 | 0 20 | 12 41 | | n.a. |
| S 3 | 17 28 | 18 32 | 5 6 | 23 35 | 0 57 | 20 20 | 3 17 | 11 50 | 0 51 | 15 14 | 1 2 | 22 24 | 0 36 | 18 44 | 0 6 | 21 39 | 1 6 | 13 22 | 6 52 | 0 20 | 0 18 | 12 40 | | n.a. |
| M 4 | 17 11 | 17 51 | 4 54 | 23 32 | 1 4 | 20 27 | 3 12 | 11 33 | 0 51 | 15 16 | 1 2 | 22 23 | 0 37 | 18 45 | 0 6 | 21 39 | 1 6 | 13 22 | 6 52 | 0 23 | 0 17 | 12 38 | | n.a. |
| T 5 | 16 54 | 16 23 | 4 29 | 23 27 | 1 11 | 20 33 | 3 7 | 11 16 | 0 50 | 15 17 | 1 2 | 22 22 | 0 37 | 18 45 | 0 6 | 21 39 | 1 6 | 13 22 | 6 52 | 0 27 | 0 16 | 12 37 | | n.a. |
| W 6 | 16 36 | 14 13 | 3 52 | 23 21 | 1 18 | 20 39 | 3 2 | 10 59 | 0 50 | 15 18 | 1 2 | 22 21 | 0 37 | 18 45 | 0 6 | 21 39 | 1 6 | 13 23 | 6 52 | 0 30 | 0 15 | 12 35 | | n.a. |
| T 7 | 16 19 | 11 29 | 3 6 | 23 14 | 1 24 | 20 45 | 2 57 | 10 42 | 0 49 | 15 20 | 1 2 | 22 20 | 0 37 | 18 45 | 0 6 | 21 39 | 1 6 | 13 23 | 6 51 | 0 33 | 0 13 | 12 34 | | n.a. |
| F 8 | 16 0 | 8 16 | 2 11 | 23 5 | 1 30 | 20 50 | 2 52 | 10 24 | 0 49 | 15 21 | 1 2 | 22 19 | 0 37 | 18 45 | 0 6 | 21 39 | 1 6 | 13 23 | 6 51 | 0 35 | 0 12 | 12 33 | | n.a. |
| S 9 | 15 42 | 4 44 | 1 10 | 22 55 | 1 35 | 20 55 | 2 47 | 10 7 | 0 48 | 15 22 | 1 3 | 22 18 | 0 37 | 18 45 | 0 6 | 21 39 | 1 6 | 13 23 | 6 51 | 0 36 | 0 11 | 12 31 | | n.a. |
| S 10 | 15 23 | 0 59 | 0 6 | 22 43 | 1 40 | 21 0 | 2 41 | 9 49 | 0 48 | 15 23 | 1 3 | 22 17 | 0 37 | 18 45 | 0 6 | 21 39 | 1 6 | 13 23 | 6 51 | 0 37 | 0 9 | 12 30 | | n.a. |
| M11 | 15 5 | 2n50 | 0s59 | 22 30 | 1 45 | 21 3 | 2 36 | 9 31 | 0 47 | 15 25 | 1 3 | 22 16 | 0 37 | 18 45 | 0 6 | 21 39 | 1 5 | 13 23 | 6 51 | 0 37 | 0 8 | 12 28 | | n.a. |
| T 12 | 14 46 | 6 36 | 2 3 | 22 15 | 1 50 | 21 7 | 2 31 | 9 14 | 0 47 | 15 26 | 1 3 | 22 15 | 0 37 | 18 45 | 0 6 | 21 39 | 1 5 | 13 24 | 6 50 | 0 36 | 0 7 | 12 27 | | n.a. |
| W13 | 14 26 | 10 8 | 3 2 | 21 59 | 1 54 | 21 10 | 2 26 | 8 56 | 0 46 | 15 27 | 1 3 | 22 14 | 0 37 | 18 45 | 0 6 | 21 39 | 1 5 | 13 24 | 6 50 | 0 35 | 0 6 | 12 26 | | n.a. |
| T 14 | 14 7 | 13 18 | 3 53 | 21 41 | 1 57 | 21 12 | 2 21 | 8 38 | 0 45 | 15 28 | 1 3 | 22 13 | 0 38 | 18 46 | 0 6 | 21 39 | 1 5 | 13 24 | 6 50 | 0 35 | 0 4 | 12 24 | | n.a. |
| F 15 | 13 47 | 15 53 | 4 35 | 21 22 | 2 0 | 21 14 | 2 16 | 8 20 | 0 45 | 15 28 | 1 3 | 22 11 | 0 38 | 18 46 | 0 6 | 21 39 | 1 5 | 13 24 | 6 50 | 0 35 | 0 3 | 12 23 | | n.a. |
| S 16 | 13 27 | 17 40 | 5 2 | 21 1 | 2 3 | 21 15 | 2 11 | 8 2 | 0 44 | 15 29 | 1 3 | 22 10 | 0 38 | 18 46 | 0 6 | 21 39 | 1 5 | 13 24 | 6 50 | 0 36 | 0 2 | 12 21 | | n.a. |
| S 17 | 13 7 | 18 28 | 5 13 | 20 38 | 2 5 | 21 16 | 2 5 | 7 44 | 0 44 | 15 30 | 1 3 | 22 9 | 0 38 | 18 46 | 0 6 | 21 39 | 1 5 | 13 25 | 6 49 | 0 37 | 0 0 | 12 20 | | n.a. |
| M18 | 12 46 | 18 6 | 5 4 | 20 14 | 2 7 | 21 16 | 2 0 | 7 26 | 0 43 | 15 31 | 1 4 | 22 8 | 0 38 | 18 46 | 0 6 | 21 39 | 1 5 | 13 25 | 6 49 | 0 38 | 0n 1 | 12 19 | | n.a. |
| T 19 | 12 26 | 16 30 | 4 35 | 19 48 | 2 9 | 21 16 | 1 55 | 7 8 | 0 43 | 15 32 | 1 4 | 22 7 | 0 38 | 18 47 | 0 6 | 21 39 | 1 5 | 13 25 | 6 49 | 0 40 | 0 2 | 12 17 | | n.a. |
| W20 | 12 5 | 13 44 | 3 46 | 19 20 | 2 10 | 21 16 | 1 50 | 6 50 | 0 42 | 15 32 | 1 4 | 22 6 | 0 38 | 18 47 | 0 6 | 21 39 | 1 5 | 13 25 | 6 49 | 0 42 | 0 3 | 12 16 | | n.a. |
| T 21 | 11 44 | 10 0 | 2 41 | 18 51 | 2 11 | 21 14 | 1 45 | 6 32 | 0 42 | 15 33 | 1 4 | 22 5 | 0 38 | 18 47 | 0 6 | 21 39 | 1 5 | 13 26 | 6 49 | 0 43 | 0 5 | 12 14 | | n.a. |
| F 22 | 11 23 | 5 37 | 1 25 | 18 20 | 2 11 | 21 12 | 1 40 | 6 14 | 0 41 | 15 33 | 1 4 | 22 4 | 0 38 | 18 47 | 0 6 | 21 39 | 1 5 | 13 26 | 6 48 | 0 44 | 0 6 | 12 13 | | n.a. |
| S 23 | 11 1 | 0 57 | 0 4 | 17 48 | 2 10 | 21 10 | 1 35 | 5 56 | 0 40 | 15 34 | 1 4 | 22 3 | 0 38 | 18 48 | 0 6 | 21 39 | 1 5 | 13 26 | 6 48 | 0 44 | 0 7 | 12 11 | | n.a. |
| S 24 | 10 40 | 3s41 | 1n16 | 17 14 | 2 10 | 21 7 | 1 30 | 5 38 | 0 40 | 15 34 | 1 4 | 22 2 | 0 39 | 18 48 | 0 6 | 21 39 | 1 5 | 13 26 | 6 48 | 0 44 | 0 8 | 12 10 | | n.a. |
| M25 | 10 18 | 7 57 | 2 29 | 16 38 | 2 8 | 21 3 | 1 25 | 5 19 | 0 39 | 15 35 | 1 4 | 22 1 | 0 39 | 18 48 | 0 6 | 21 39 | 1 5 | 13 27 | 6 48 | 0 44 | 0 10 | 12 9 | | n.a. |
| T 26 | 9 57 | 11 40 | 3 31 | 16 0 | 2 7 | 20 59 | 1 20 | 5 1 | 0 39 | 15 35 | 1 4 | 22 0 | 0 39 | 18 48 | 0 6 | 21 39 | 1 5 | 13 27 | 6 48 | 0 43 | 0 11 | 12 7 | | n.a. |
| W27 | 9 35 | 14 38 | 4 19 | 15 21 | 2 4 | 20 55 | 1 15 | 4 43 | 0 38 | 15 35 | 1 5 | 21 59 | 0 39 | 18 49 | 0 6 | 21 40 | 1 5 | 13 27 | 6 47 | 0 43 | 0 12 | 12 6 | | n.a. |
| T 28 | 9s13 | 16s47 | 4n53 | 14s40 | 2s 1 | 20s49 | 1n10 | 4s24 | 0s37 | 15s35 | 1n 5 | 21s58 | 0s39 | 18n49 | 0s 6 | 21n40 | 1s 5 | 13n27 | 6s47 | 0n42 | 0n14 | 12s 4 | | n.a. |

Julian Day Number = 1695886.5, Delta T = 03h08m05s
Ecliptic obliquity = 23°42'03, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°01'46, Lahiri = - 4°54'45 Julian Calendar 1 Feb. 70 BCE == Greg. Calendar 30 Jan. 070 BCE

The year -69 astronomical counting style corresponds to year 070 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 70 BCE
# geocentric

## MARCH 70 BCE (-69) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 10 22 3 | 7♓31'06 | 18♐47 | 28♒31 | 22♑33 | 21♓10 | 15♏22 | 25♑18 | 23♉45 | 14♊ 0 | 28♉39 | 28°R14 | 29♍23 | 19♒17 | n.a. | F 1 |
| S 2 | 10 25 59 | 8°30'15 | 1♑ 4 | 0♓25 | 23°39 | 21°55 | 15°23 | 25°24 | 23°46 | 14° 0 | 28°40 | 28♍13 | 29°20 | 19°24 | n.a. | S 2 |
| S 3 | 10 29 56 | 9°29'22 | 13° 8 | 2°20 | 24°45 | 22°40 | 15°24 | 25°30 | 23°48 | 14° 0 | 28°40 | 28°10 | 29°17 | 19°31 | n.a. | S 3 |
| M 4 | 10 33 52 | 10°28'28 | 25° 4 | 4°17 | 25°52 | 23°24 | 15°24 | 25°36 | 23°49 | 14° 0 | 28°40 | 28° 8 | 29°14 | 19°37 | n.a. | M 4 |
| T 5 | 10 37 49 | 11°27'31 | 6♒55 | 6°15 | 26°59 | 24° 9 | 15°R24 | 25°41 | 23°51 | 14° 1 | 28°41 | 28° 5 | 29°10 | 19°44 | n.a. | T 5 |
| W 6 | 10 41 45 | 12°26'33 | 18°44 | 8°14 | 28° 6 | 24°53 | 15°24 | 25°47 | 23°52 | 14° 1 | 28°41 | 28° 2 | 29° 7 | 19°51 | n.a. | W 6 |
| T 7 | 10 45 42 | 13°25'32 | 0♓33 | 10°14 | 29°13 | 25°38 | 15°24 | 25°53 | 23°54 | 14° 1 | 28°42 | 28° 0 | 29° 4 | 19°57 | n.a. | T 7 |
| F 8 | 10 49 38 | 14°24'30 | 12°25 | 12°16 | 0♒20 | 26°22 | 15°23 | 25°58 | 23°56 | 14° 1 | 28°42 | 27°59 | 29° 1 | 20° 4 | n.a. | F 8 |
| S 9 | 10 53 35 | 15°23'25 | 24°22 | 14°19 | 1°27 | 27° 6 | 15°23 | 26° 4 | 23°57 | 14° 2 | 28°43 | 27°D59 | 28°58 | 20°11 | n.a. | S 9 |
| S 10 | 10 57 32 | 16°22'18 | 6♈26 | 16°22 | 2°34 | 27°51 | 15°22 | 26°10 | 23°59 | 14° 2 | 28°43 | 27°59 | 28°54 | 20°17 | n.a. | S 10 |
| M11 | 11 1 28 | 17°21'09 | 18°38 | 18°27 | 3°42 | 28°35 | 15°21 | 26°15 | 24° 1 | 14° 3 | 28°44 | 27°59 | 28°51 | 20°24 | n.a. | M11 |
| T 12 | 11 5 25 | 18°19'58 | 1♉ 2 | 20°32 | 4°50 | 29°19 | 15°19 | 26°20 | 24° 3 | 14° 3 | 28°44 | 28° 0 | 28°48 | 20°31 | n.a. | T 12 |
| W13 | 11 9 21 | 19°18'44 | 13°39 | 22°37 | 5°57 | 0♈ 3 | 15°18 | 26°26 | 24° 5 | 14° 4 | 28°45 | 28° 1 | 28°45 | 20°37 | n.a. | W13 |
| T 14 | 11 13 18 | 20°17'28 | 26°31 | 24°43 | 7° 5 | 0°47 | 15°17 | 26°31 | 24° 7 | 14° 4 | 28°46 | 28° 2 | 28°42 | 20°44 | n.a. | T 14 |
| F 15 | 11 17 14 | 21°16'10 | 9♊43 | 26°49 | 8°13 | 1°31 | 15°15 | 26°36 | 24° 9 | 14° 5 | 28°46 | 28° 2 | 28°39 | 20°51 | n.a. | F 15 |
| S 16 | 11 21 11 | 22°14'50 | 23°14 | 28°55 | 9°21 | 2°15 | 15°13 | 26°41 | 24°11 | 14° 5 | 28°47 | 28°R 2 | 28°35 | 20°57 | n.a. | S 16 |
| S 17 | 11 25 7 | 23°13'27 | 7♋ 7 | 1♈ 0 | 10°29 | 2°59 | 15°11 | 26°46 | 24°13 | 14° 6 | 28°48 | 28° 2 | 28°32 | 21° 4 | n.a. | S 17 |
| M18 | 11 29 4 | 24°12'02 | 21°22 | 3° 4 | 11°38 | 3°43 | 15° 8 | 26°51 | 24°15 | 14° 6 | 28°48 | 28° 2 | 28°29 | 21°11 | n.a. | M18 |
| T 19 | 11 33 1 | 25°10'35 | 5♌56 | 5° 7 | 12°46 | 4°27 | 15° 6 | 26°56 | 24°17 | 14° 7 | 28°49 | 28° 2 | 28°26 | 21°17 | n.a. | T 19 |
| W20 | 11 36 57 | 26° 9'05 | 20°45 | 7° 9 | 13°55 | 5°11 | 15° 3 | 27° 1 | 24°19 | 14° 8 | 28°50 | 28° 1 | 28°23 | 21°24 | n.a. | W20 |
| T 21 | 11 40 54 | 27° 7'33 | 5♍42 | 9° 9 | 15° 3 | 5°54 | 15° 0 | 27° 6 | 24°22 | 14° 9 | 28°50 | 28° 1 | 28°19 | 21°31 | n.a. | T 21 |
| F 22 | 11 44 50 | 28° 5'59 | 20°41 | 11° 6 | 16°12 | 6°38 | 14°57 | 27°11 | 24°24 | 14° 9 | 28°51 | 28° 1 | 28°16 | 21°37 | n.a. | F 22 |
| S 23 | 11 48 47 | 29° 4'23 | 5♎32 | 13° 1 | 17°21 | 7°22 | 14°54 | 27°15 | 24°26 | 14°10 | 28°52 | 28° 1 | 28°13 | 21°44 | n.a. | S 23 |
| S 24 | 11 52 43 | 0♈ 2'45 | 20° 9 | 14°54 | 18°29 | 8° 5 | 14°51 | 27°20 | 24°28 | 14°11 | 28°53 | 28° 1 | 28°10 | 21°51 | n.a. | S 24 |
| M25 | 11 56 40 | 1° 1'05 | 4♏24 | 16°43 | 19°38 | 8°49 | 14°47 | 27°24 | 24°31 | 14°12 | 28°54 | 28° 1 | 28° 7 | 21°57 | n.a. | M25 |
| T 26 | 12 0 36 | 1°59'23 | 18°15 | 18°29 | 20°47 | 9°32 | 14°43 | 27°29 | 24°33 | 14°13 | 28°54 | 28° 1 | 28° 4 | 22° 4 | n.a. | T 26 |
| W27 | 12 4 33 | 2°57'40 | 1♐41 | 20°12 | 21°57 | 10°15 | 14°40 | 27°33 | 24°36 | 14°14 | 28°55 | 28° 0 | 28° 0 | 22°11 | n.a. | W27 |
| T 28 | 12 8 29 | 3°55'55 | 14°41 | 21°51 | 23° 6 | 10°59 | 14°36 | 27°37 | 24°38 | 14°15 | 28°56 | 28° 0 | 27°57 | 22°17 | n.a. | T 28 |
| F 29 | 12 12 26 | 4°54'09 | 27°19 | 23°26 | 24°15 | 11°42 | 14°31 | 27°41 | 24°41 | 14°16 | 28°57 | 27°59 | 27°54 | 22°24 | n.a. | F 29 |
| S 30 | 12 16 23 | 5°52'21 | 9♑38 | 24°56 | 25°24 | 12°25 | 14°27 | 27°46 | 24°43 | 14°17 | 28°58 | 27°D59 | 27°51 | 22°31 | n.a. | S 30 |
| S 31 | 12 20 19 | 6♈50'32 | 21♑42 | 26♈23 | 26♒34 | 13♈ 9 | 14♏22 | 27♑50 | 24♉46 | 14♊18 | 28♉59 | 28♍ 0 | 27♍48 | 22♒37 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 8s50 | 18s 3 | 5n11 | 13s58 | 1s58 | 20s44 | 1n 5 | 4s 6 | 0s37 | 15s36 | 1n 5 | 21s57 | 0s39 | 18n49 | 0s 6 | 21n40 | 1s 5 | 13n28 | 6s47 | 0n43 | 0n15 | 12s 3 | | n.a. |
| S 2 | 8 28 | 18 27 | 5 15 | 13 14 | 1 54 | 20 37 | 1 0 | 3 48 | 0 36 | 15 36 | 1 5 | 21 56 | 0 39 | 18 50 | 0 6 | 21 40 | 1 5 | 13 28 | 6 47 | 0 43 | 0 16 | 12 1 | | n.a. |
| S 3 | 8 6 | 17 59 | 5 5 | 12 28 | 1 50 | 20 30 | 0 55 | 3 29 | 0 36 | 15 36 | 1 5 | 21 55 | 0 39 | 18 50 | 0 6 | 21 40 | 1 5 | 13 28 | 6 47 | 0 44 | 0 17 | 12 0 | | n.a. |
| M 4 | 7 43 | 16 44 | 4 41 | 11 40 | 1 45 | 20 23 | 0 50 | 3 11 | 0 35 | 15 36 | 1 5 | 21 54 | 0 39 | 18 51 | 0 6 | 21 40 | 1 5 | 13 28 | 6 46 | 0 45 | 0 19 | 11 59 | | n.a. |
| T 5 | 7 21 | 14 47 | 4 6 | 10 51 | 1 39 | 20 15 | 0 46 | 2 53 | 0 35 | 15 36 | 1 5 | 21 53 | 0 40 | 18 51 | 0 5 | 21 40 | 1 4 | 13 29 | 6 46 | 0 46 | 0 20 | 11 57 | | n.a. |
| W 6 | 6 58 | 12 12 | 3 21 | 10 1 | 1 33 | 20 6 | 0 41 | 2 34 | 0 34 | 15 35 | 1 5 | 21 52 | 0 40 | 18 51 | 0 5 | 21 40 | 1 4 | 13 29 | 6 46 | 0 47 | 0 21 | 11 56 | | n.a. |
| T 7 | 6 35 | 9 7 | 2 26 | 9 9 | 1 27 | 19 57 | 0 36 | 2 16 | 0 33 | 15 35 | 1 5 | 21 51 | 0 40 | 18 52 | 0 5 | 21 40 | 1 4 | 13 29 | 6 46 | 0 48 | 0 23 | 11 54 | | n.a. |
| F 8 | 6 12 | 5 40 | 1 25 | 8 15 | 1 20 | 19 47 | 0 32 | 1 58 | 0 33 | 15 35 | 1 5 | 21 50 | 0 40 | 18 52 | 0 5 | 21 40 | 1 4 | 13 30 | 6 46 | 0 49 | 0 24 | 11 53 | | n.a. |
| S 9 | 5 49 | 1 57 | 0 20 | 7 21 | 1 12 | 19 37 | 0 27 | 1 39 | 0 32 | 15 35 | 1 6 | 21 49 | 0 40 | 18 53 | 0 5 | 21 40 | 1 4 | 13 30 | 6 45 | 0 49 | 0 25 | 11 51 | | n.a. |
| S 10 | 5 26 | 1n52 | 0s47 | 6 25 | 1 4 | 19 26 | 0 23 | 1 21 | 0 32 | 15 34 | 1 6 | 21 48 | 0 40 | 18 53 | 0 5 | 21 40 | 1 4 | 13 30 | 6 45 | 0 49 | 0 26 | 11 50 | | n.a. |
| M11 | 5 3 | 5 39 | 1 52 | 5 28 | 0 55 | 19 15 | 0 18 | 1 3 | 0 31 | 15 34 | 1 6 | 21 48 | 0 40 | 18 54 | 0 5 | 21 40 | 1 4 | 13 30 | 6 45 | 0 48 | 0 28 | 11 48 | | n.a. |
| T 12 | 4 40 | 9 15 | 2 53 | 4 30 | 0 46 | 19 3 | 0 14 | 0 44 | 0 30 | 15 34 | 1 6 | 21 47 | 0 40 | 18 54 | 0 5 | 21 41 | 1 4 | 13 31 | 6 45 | 0 48 | 0 29 | 11 47 | | n.a. |
| W13 | 4 17 | 12 30 | 3 47 | 3 31 | 0 36 | 18 50 | 0 10 | 0 26 | 0 30 | 15 33 | 1 6 | 21 46 | 0 41 | 18 55 | 0 5 | 21 41 | 1 4 | 13 31 | 6 45 | 0 48 | 0 30 | 11 46 | | n.a. |
| T 14 | 3 53 | 15 12 | 4 31 | 2 31 | 0 26 | 18 37 | 0 5 | 0 8 | 0 29 | 15 33 | 1 6 | 21 45 | 0 41 | 18 55 | 0 5 | 21 41 | 1 4 | 13 31 | 6 44 | 0 47 | 0 31 | 11 44 | | n.a. |
| F 15 | 3 30 | 17 11 | 5 2 | 1 31 | 0 16 | 18 24 | 0 1 | 0n11 | 0 28 | 15 32 | 1 6 | 21 44 | 0 41 | 18 56 | 0 5 | 21 41 | 1 4 | 13 32 | 6 44 | 0 47 | 0 33 | 11 43 | | n.a. |
| S 16 | 3 7 | 18 15 | 5 17 | 0 31 | 0 5 | 18 9 | 0s 3 | 0 29 | 0 28 | 15 31 | 1 6 | 21 43 | 0 41 | 18 56 | 0 5 | 21 41 | 1 4 | 13 32 | 6 44 | 0 47 | 0 34 | 11 41 | | n.a. |
| S 17 | 2 43 | 18 17 | 5 14 | 0n29 | 0n 6 | 17 55 | 0 7 | 0 47 | 0 27 | 15 31 | 1 6 | 21 42 | 0 41 | 18 57 | 0 5 | 21 41 | 1 4 | 13 32 | 6 44 | 0 47 | 0 35 | 11 40 | | n.a. |
| M18 | 2 20 | 17 11 | 4 52 | 1 29 | 0 17 | 17 40 | 0 11 | 1 5 | 0 27 | 15 30 | 1 6 | 21 41 | 0 41 | 18 57 | 0 5 | 21 41 | 1 4 | 13 33 | 6 44 | 0 47 | 0 37 | 11 38 | | n.a. |
| T 19 | 1 56 | 14 57 | 4 11 | 2 29 | 0 28 | 17 24 | 0 15 | 1 23 | 0 26 | 15 29 | 1 6 | 21 41 | 0 41 | 18 58 | 0 5 | 21 41 | 1 4 | 13 33 | 6 43 | 0 48 | 0 38 | 11 37 | | n.a. |
| W20 | 1 33 | 11 41 | 3 13 | 3 28 | 0 39 | 17 8 | 0 19 | 1 41 | 0 25 | 15 28 | 1 7 | 21 40 | 0 42 | 18 58 | 0 5 | 21 41 | 1 4 | 13 33 | 6 43 | 0 48 | 0 39 | 11 35 | | n.a. |
| T 21 | 1 9 | 7 39 | 2 1 | 4 26 | 0 50 | 16 52 | 0 23 | 1 59 | 0 25 | 15 27 | 1 7 | 21 39 | 0 42 | 18 59 | 0 5 | 21 42 | 1 4 | 13 34 | 6 43 | 0 48 | 0 40 | 11 34 | | n.a. |
| F 22 | 0 46 | 3 7 | 0 41 | 5 23 | 1 2 | 16 35 | 0 26 | 2 17 | 0 24 | 15 26 | 1 7 | 21 38 | 0 42 | 18 59 | 0 5 | 21 42 | 1 4 | 13 34 | 6 43 | 0 48 | 0 42 | 11 32 | | n.a. |
| S 23 | 0 22 | 1s35 | 0n42 | 6 18 | 1 13 | 16 17 | 0 30 | 2 35 | 0 24 | 15 25 | 1 7 | 21 37 | 0 42 | 19 0 | 0 5 | 21 42 | 1 4 | 13 34 | 6 43 | 0 48 | 0 43 | 11 31 | | n.a. |
| S 24 | 0n 1 | 6 7 | 2 0 | 7 12 | 1 23 | 15 59 | 0 34 | 2 53 | 0 23 | 15 24 | 1 7 | 21 37 | 0 42 | 19 1 | 0 5 | 21 42 | 1 4 | 13 35 | 6 43 | 0 48 | 0 44 | 11 29 | | n.a. |
| M25 | 0 25 | 10 10 | 3 9 | 8 5 | 1 34 | 15 41 | 0 37 | 3 11 | 0 22 | 15 23 | 1 7 | 21 36 | 0 42 | 19 1 | 0 5 | 21 42 | 1 4 | 13 35 | 6 42 | 0 48 | 0 46 | 11 28 | | n.a. |
| T 26 | 0 48 | 13 32 | 4 4 | 8 55 | 1 43 | 15 22 | 0 41 | 3 29 | 0 22 | 15 22 | 1 7 | 21 35 | 0 42 | 19 2 | 0 5 | 21 42 | 1 3 | 13 35 | 6 42 | 0 48 | 0 47 | 11 27 | | n.a. |
| W27 | 1 11 | 16 4 | 4 45 | 9 43 | 1 53 | 15 2 | 0 44 | 3 47 | 0 21 | 15 21 | 1 7 | 21 34 | 0 42 | 19 2 | 0 5 | 21 42 | 1 3 | 13 36 | 6 42 | 0 48 | 0 48 | 11 25 | | n.a. |
| T 28 | 1 35 | 17 42 | 5 9 | 10 29 | 2 2 | 14 43 | 0 47 | 4 5 | 0 21 | 15 20 | 1 7 | 21 34 | 0 43 | 19 3 | 0 5 | 21 43 | 1 3 | 13 36 | 6 42 | 0 48 | 0 49 | 11 24 | | n.a. |
| F 29 | 1 58 | 18 23 | 5 18 | 11 12 | 2 10 | 14 23 | 0 51 | 4 22 | 0 20 | 15 18 | 1 7 | 21 33 | 0 43 | 19 4 | 0 5 | 21 43 | 1 3 | 13 37 | 6 42 | 0 49 | 0 51 | 11 22 | | n.a. |
| S 30 | 2 21 | 18 11 | 5 11 | 11 53 | 2 17 | 14 2 | 0 54 | 4 40 | 0 19 | 15 17 | 1 7 | 21 32 | 0 43 | 19 4 | 0 5 | 21 43 | 1 3 | 13 37 | 6 41 | 0 49 | 0 52 | 11 21 | | n.a. |
| S 31 | 2n45 | 17s 9 | 4n51 | 12n32 | 2n24 | 13s41 | 0s57 | 4n58 | 0s19 | 15s16 | 1n 7 | 21s32 | 0s43 | 19n 5 | 0s 5 | 21n43 | 1s 3 | 13n37 | 6s41 | 0n48 | 0n53 | 11s19 | | n.a. |

Julian Day Number = 1695914.5, Delta T = 03h08m04s
Ecliptic obliquity = 23°42'04, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°01'42, Lahiri = - 4°54'42 Julian Calendar 1 March 70 BCE == Greg. Calendar 27 Feb. 070 BCE

The year -69 astronomical counting style corresponds to year 070 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 70 BCE
# geocentric

## APRIL 70 BCE (-69) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 12 24 16 | 7♈48'40 | 3♒37 | 27♈46 | 27♒43 | 13♈52 | 14°R18 | 27♉54 | 24♉49 | 14♊19 | 29♉ 0 | 28♍ 0 | 27♍45 | 22♒44 | n.a. | M 1 |
| T 2 | 12 28 12 | 8°46'48 | 15°27 | 29° 4 | 28°53 | 14°35 | 14♏13 | 27°57 | 24°51 | 14°20 | 29° 1 | 28° 1 | 27°41 | 22°51 | n.a. | T 2 |
| W 3 | 12 32 9 | 9°44'53 | 27°15 | 0♉17 | 0♓ 3 | 15°18 | 14° 8 | 28° 1 | 24°54 | 14°21 | 29° 2 | 28° 2 | 27°38 | 22°57 | n.a. | W 3 |
| T 4 | 12 36 5 | 10°42'57 | 9♓ 7 | 1°26 | 1°12 | 16° 1 | 14° 3 | 28° 5 | 24°57 | 14°22 | 29° 3 | 28° 3 | 27°35 | 23° 4 | n.a. | T 4 |
| F 5 | 12 40 2 | 11°41'00 | 21° 4 | 2°31 | 2°22 | 16°44 | 13°58 | 28° 9 | 25° 0 | 14°24 | 29° 4 | 28° 4 | 27°32 | 23°11 | n.a. | F 5 |
| S 6 | 12 43 58 | 12°39'01 | 3♈10 | 3°31 | 3°32 | 17°27 | 13°52 | 28°12 | 25° 2 | 14°25 | 29° 5 | 28°R 4 | 27°29 | 23°17 | n.a. | S 6 |
| S 7 | 12 47 55 | 13°37'00 | 15°26 | 4°26 | 4°42 | 18°10 | 13°47 | 28°16 | 25° 5 | 14°26 | 29° 6 | 28° 3 | 27°25 | 23°24 | n.a. | S 7 |
| M 8 | 12 51 52 | 14°34'57 | 27°55 | 5°16 | 5°52 | 18°53 | 13°41 | 28°19 | 25° 8 | 14°27 | 29° 7 | 28° 2 | 27°22 | 23°31 | n.a. | M 8 |
| T 9 | 12 55 48 | 15°32'53 | 10♉36 | 6° 1 | 7° 2 | 19°35 | 13°35 | 28°22 | 25°11 | 14°29 | 29° 8 | 28° 0 | 27°19 | 23°37 | n.a. | T 9 |
| W10 | 12 59 45 | 16°30'47 | 23°32 | 6°42 | 8°12 | 20°18 | 13°29 | 28°25 | 25°14 | 14°30 | 29° 9 | 27°57 | 27°16 | 23°44 | n.a. | W10 |
| T 11 | 13 3 41 | 17°28'39 | 6♊41 | 7°17 | 9°22 | 21° 1 | 13°23 | 28°28 | 25°17 | 14°31 | 29°10 | 27°54 | 27°13 | 23°51 | n.a. | T 11 |
| F 12 | 13 7 38 | 18°26'30 | 20° 5 | 7°47 | 10°32 | 21°43 | 13°17 | 28°31 | 25°20 | 14°33 | 29°11 | 27°52 | 27°10 | 23°57 | n.a. | F 12 |
| S 13 | 13 11 34 | 19°24'19 | 3♋43 | 8°13 | 11°42 | 22°26 | 13°11 | 28°34 | 25°23 | 14°34 | 29°13 | 27°50 | 27° 6 | 24° 4 | n.a. | S 13 |
| S 14 | 13 15 31 | 20°22'06 | 17°35 | 8°33 | 12°52 | 23° 8 | 13° 4 | 28°37 | 25°26 | 14°36 | 29°14 | 27°D50 | 27° 3 | 24°11 | n.a. | S 14 |
| M15 | 13 19 27 | 21°19'51 | 1♌40 | 8°48 | 14° 3 | 23°51 | 12°58 | 28°40 | 25°29 | 14°37 | 29°15 | 27°50 | 27° 0 | 24°17 | n.a. | M15 |
| T 16 | 13 23 24 | 22°17'34 | 15°57 | 8°58 | 15°13 | 24°33 | 12°51 | 28°43 | 25°32 | 14°38 | 29°16 | 27°51 | 26°57 | 24°24 | n.a. | T 16 |
| W17 | 13 27 21 | 23°15'16 | 0♍24 | 9° 3 | 16°24 | 25°16 | 12°44 | 28°45 | 25°35 | 14°40 | 29°17 | 27°52 | 26°54 | 24°31 | n.a. | W17 |
| T 18 | 13 31 17 | 24°12'55 | 14°57 | 9°R 4 | 17°34 | 25°58 | 12°37 | 28°48 | 25°38 | 14°42 | 29°18 | 27°54 | 26°50 | 24°37 | n.a. | T 18 |
| F 19 | 13 35 14 | 25°10'33 | 29°31 | 8°59 | 18°44 | 26°40 | 12°31 | 28°50 | 25°42 | 14°43 | 29°20 | 27°R54 | 26°47 | 24°44 | n.a. | F 19 |
| S 20 | 13 39 10 | 26° 8'10 | 14♎ 2 | 8°50 | 19°55 | 27°22 | 12°24 | 28°52 | 25°45 | 14°45 | 29°21 | 27°53 | 26°44 | 24°51 | n.a. | S 20 |
| S 21 | 13 43 7 | 27° 5'45 | 28°23 | 8°37 | 21° 6 | 28° 5 | 12°17 | 28°55 | 25°48 | 14°46 | 29°22 | 27°51 | 26°41 | 24°57 | n.a. | S 21 |
| M22 | 13 47 3 | 28° 3'19 | 12♏29 | 8°19 | 22°16 | 28°47 | 12° 9 | 28°57 | 25°51 | 14°48 | 29°23 | 27°47 | 26°38 | 25° 4 | n.a. | M22 |
| T 23 | 13 51 0 | 29° 0'52 | 26°16 | 7°58 | 23°27 | 29°29 | 12° 2 | 28°59 | 25°54 | 14°50 | 29°25 | 27°43 | 26°35 | 25°11 | n.a. | T 23 |
| W24 | 13 54 56 | 29°58'23 | 9♐40 | 7°34 | 24°38 | 0♉11 | 11°55 | 29° 1 | 25°58 | 14°51 | 29°26 | 27°38 | 26°31 | 25°17 | n.a. | W24 |
| T 25 | 13 58 53 | 0♉55'54 | 22°42 | 7° 6 | 25°49 | 0°53 | 11°48 | 29° 3 | 26° 1 | 14°53 | 29°27 | 27°33 | 26°28 | 25°24 | n.a. | T 25 |
| F 26 | 14 2 49 | 1°53'23 | 5♑23 | 6°37 | 26°59 | 1°35 | 11°40 | 29° 4 | 26° 4 | 14°55 | 29°28 | 27°29 | 26°25 | 25°31 | n.a. | F 26 |
| S 27 | 14 6 46 | 2°50'52 | 17°44 | 6° 5 | 28°10 | 2°16 | 11°33 | 29° 6 | 26° 8 | 14°56 | 29°30 | 27°27 | 26°22 | 25°37 | n.a. | S 27 |
| S 28 | 14 10 43 | 3°48'19 | 29°50 | 5°32 | 29°21 | 2°58 | 11°25 | 29° 7 | 26°11 | 14°58 | 29°31 | 27°D25 | 26°19 | 25°44 | n.a. | S 28 |
| M29 | 14 14 39 | 4°45'46 | 11♒46 | 4°58 | 0♈32 | 3°40 | 11°18 | 29° 9 | 26°14 | 15° 0 | 29°32 | 27°26 | 26°16 | 25°51 | n.a. | M29 |
| T 30 | 14 18 36 | 5♉43'12 | 23♒36 | 4♉24 | 1♈43 | 4♉22 | 11♏10 | 29♑10 | 26♉18 | 15♊ 2 | 29♉34 | 27♍27 | 26♍12 | 25♒57 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 3n 8 | 15s22 | 4n18 | 13n 8 | 2n30 | 13s20 | 1s 0 | 5n15 | 0s18 | 15s14 | 1n 7 | 21s31 | 0s43 | 19n 6 | 0s 5 | 21n43 | 1s 3 | 13n38 | 6s41 | 0n48 | 0n54 | 11s18 | | n.a. |
| T 2 | 3 31 | 12 57 | 3 35 | 13 41 | 2 36 | 12 58 | 1 3 | 5 32 | 0 17 | 15 13 | 1 7 | 21 30 | 0 43 | 19 6 | 0 5 | 21 43 | 1 3 | 13 38 | 6 41 | 0 48 | 0 56 | 11 16 | | n.a. |
| W 3 | 3 54 | 10 1 | 2 43 | 14 11 | 2 40 | 12 36 | 1 5 | 5 50 | 0 17 | 15 11 | 1 7 | 21 30 | 0 43 | 19 7 | 0 5 | 21 44 | 1 3 | 13 38 | 6 41 | 0 47 | 0 57 | 11 15 | | n.a. |
| T 4 | 4 17 | 6 39 | 1 43 | 14 39 | 2 44 | 12 13 | 1 8 | 6 7 | 0 16 | 15 10 | 1 7 | 21 29 | 0 44 | 19 8 | 0 5 | 21 44 | 1 3 | 13 39 | 6 41 | 0 47 | 0 58 | 11 13 | | n.a. |
| F 5 | 4 40 | 2 59 | 0 39 | 15 4 | 2 46 | 11 51 | 1 11 | 6 24 | 0 16 | 15 8 | 1 7 | 21 28 | 0 44 | 19 8 | 0 5 | 21 44 | 1 3 | 13 39 | 6 40 | 0 47 | 1 0 | 11 12 | | n.a. |
| S 6 | 5 3 | 0n50 | 0s28 | 15 27 | 2 48 | 11 27 | 1 13 | 6 42 | 0 15 | 15 6 | 1 7 | 21 28 | 0 44 | 19 9 | 0 5 | 21 44 | 1 3 | 13 39 | 6 40 | 0 47 | 1 1 | 11 10 | | n.a. |
| S 7 | 5 26 | 4 41 | 1 35 | 15 46 | 2 48 | 11 4 | 1 16 | 6 59 | 0 14 | 15 5 | 1 7 | 21 27 | 0 44 | 19 10 | 0 5 | 21 44 | 1 3 | 13 40 | 6 40 | 0 47 | 1 2 | 11 9 | | n.a. |
| M 8 | 5 49 | 8 24 | 2 38 | 16 3 | 2 48 | 10 40 | 1 18 | 7 16 | 0 14 | 15 3 | 1 7 | 21 27 | 0 44 | 19 11 | 0 5 | 21 45 | 1 3 | 13 40 | 6 40 | 0 47 | 1 3 | 11 7 | | n.a. |
| T 9 | 6 11 | 11 47 | 3 34 | 16 17 | 2 47 | 10 16 | 1 20 | 7 33 | 0 13 | 15 1 | 1 7 | 21 26 | 0 44 | 19 11 | 0 5 | 21 45 | 1 3 | 13 41 | 6 40 | 0 48 | 1 5 | 11 6 | | n.a. |
| W10 | 6 34 | 14 39 | 4 20 | 16 29 | 2 44 | 9 52 | 1 23 | 7 49 | 0 12 | 14 59 | 1 7 | 21 26 | 0 45 | 19 12 | 0 5 | 21 45 | 1 3 | 13 41 | 6 40 | 0 49 | 1 6 | 11 4 | | n.a. |
| T 11 | 6 56 | 16 50 | 4 54 | 16 37 | 2 41 | 9 27 | 1 25 | 8 6 | 0 12 | 14 57 | 1 7 | 21 25 | 0 45 | 19 13 | 0 5 | 21 45 | 1 3 | 13 41 | 6 40 | 0 50 | 1 7 | 11 3 | | n.a. |
| F 12 | 7 18 | 18 8 | 5 12 | 16 43 | 2 36 | 9 2 | 1 27 | 8 23 | 0 11 | 14 56 | 1 7 | 21 25 | 0 45 | 19 13 | 0 5 | 21 45 | 1 3 | 13 42 | 6 39 | 0 51 | 1 8 | 11 1 | | n.a. |
| S 13 | 7 40 | 18 25 | 5 14 | 16 46 | 2 31 | 8 37 | 1 29 | 8 40 | 0 11 | 14 54 | 1 7 | 21 24 | 0 45 | 19 14 | 0 5 | 21 46 | 1 3 | 13 42 | 6 39 | 0 52 | 1 10 | 11 0 | | n.a. |
| S 14 | 8 3 | 17 38 | 4 57 | 16 46 | 2 24 | 8 11 | 1 30 | 8 56 | 0 10 | 14 52 | 1 7 | 21 24 | 0 45 | 19 15 | 0 5 | 21 46 | 1 3 | 13 42 | 6 39 | 0 52 | 1 11 | 10 58 | | n.a. |
| M15 | 8 24 | 15 45 | 4 22 | 16 44 | 2 16 | 7 46 | 1 32 | 9 12 | 0 9 | 14 50 | 1 7 | 21 23 | 0 45 | 19 16 | 0 5 | 21 46 | 1 3 | 13 43 | 6 39 | 0 52 | 1 12 | 10 57 | | n.a. |
| T 16 | 8 46 | 12 53 | 3 31 | 16 39 | 2 7 | 7 20 | 1 34 | 9 29 | 0 9 | 14 48 | 1 7 | 21 23 | 0 45 | 19 16 | 0 5 | 21 46 | 1 3 | 13 43 | 6 39 | 0 52 | 1 14 | 10 55 | | n.a. |
| W17 | 9 8 | 9 11 | 2 26 | 16 31 | 1 57 | 6 53 | 1 35 | 9 45 | 0 8 | 14 46 | 1 7 | 21 23 | 0 46 | 19 17 | 0 5 | 21 46 | 1 3 | 13 44 | 6 39 | 0 51 | 1 15 | 10 54 | | n.a. |
| T 18 | 9 29 | 4 54 | 1 11 | 16 20 | 1 46 | 6 27 | 1 37 | 10 1 | 0 8 | 14 44 | 1 7 | 21 22 | 0 46 | 19 18 | 0 5 | 21 47 | 1 3 | 13 44 | 6 39 | 0 51 | 1 16 | 10 52 | | n.a. |
| F 19 | 9 51 | 0 20 | 0n 9 | 16 8 | 1 34 | 6 0 | 1 38 | 10 17 | 0 7 | 14 42 | 1 7 | 21 22 | 0 46 | 19 19 | 0 5 | 21 47 | 1 3 | 13 44 | 6 38 | 0 51 | 1 17 | 10 51 | | n.a. |
| S 20 | 10 12 | 4s15 | 1 28 | 15 52 | 1 21 | 5 34 | 1 40 | 10 33 | 0 6 | 14 39 | 1 7 | 21 22 | 0 46 | 19 20 | 0 5 | 21 47 | 1 2 | 13 45 | 6 38 | 0 51 | 1 19 | 10 49 | | n.a. |
| S 21 | 10 33 | 8 32 | 2 40 | 15 35 | 1 6 | 5 7 | 1 41 | 10 49 | 0 6 | 14 37 | 1 7 | 21 21 | 0 46 | 19 20 | 0 5 | 21 47 | 1 2 | 13 45 | 6 38 | 0 52 | 1 20 | 10 48 | | n.a. |
| M22 | 10 54 | 12 15 | 3 40 | 15 15 | 0 52 | 4 40 | 1 42 | 11 5 | 0 5 | 14 35 | 1 7 | 21 21 | 0 46 | 19 21 | 0 5 | 21 47 | 1 2 | 13 46 | 6 38 | 0 53 | 1 21 | 10 46 | | n.a. |
| T 23 | 11 15 | 15 12 | 4 27 | 14 53 | 0 36 | 4 12 | 1 43 | 11 20 | 0 4 | 14 33 | 1 7 | 21 21 | 0 47 | 19 22 | 0 5 | 21 48 | 1 2 | 13 46 | 6 38 | 0 55 | 1 23 | 10 44 | | n.a. |
| W24 | 11 35 | 17 15 | 4 57 | 14 30 | 0 20 | 3 45 | 1 44 | 11 36 | 0 4 | 14 31 | 1 7 | 21 21 | 0 47 | 19 23 | 0 5 | 21 48 | 1 2 | 13 46 | 6 38 | 0 57 | 1 24 | 10 43 | | n.a. |
| T 25 | 11 55 | 18 19 | 5 11 | 14 5 | 0 3 | 3 17 | 1 45 | 11 51 | 0 3 | 14 29 | 1 7 | 21 20 | 0 47 | 19 23 | 0 5 | 21 48 | 1 2 | 13 47 | 6 38 | 0 59 | 1 25 | 10 41 | | n.a. |
| F 26 | 12 16 | 18 26 | 5 9 | 13 39 | 0s14 | 2 50 | 1 46 | 12 7 | 0 3 | 14 26 | 1 7 | 21 20 | 0 47 | 19 24 | 0 5 | 21 48 | 1 2 | 13 47 | 6 38 | 1 1 | 1 26 | 10 40 | | n.a. |
| S 27 | 12 36 | 17 40 | 4 53 | 13 12 | 0 31 | 2 22 | 1 47 | 12 22 | 0 2 | 14 24 | 1 7 | 21 20 | 0 47 | 19 25 | 0 5 | 21 49 | 1 2 | 13 47 | 6 37 | 1 2 | 1 28 | 10 38 | | n.a. |
| S 28 | 12 55 | 16 6 | 4 24 | 12 45 | 0 48 | 1 54 | 1 47 | 12 37 | 0 1 | 14 22 | 1 7 | 21 20 | 0 47 | 19 26 | 0 5 | 21 49 | 1 2 | 13 48 | 6 37 | 1 2 | 1 29 | 10 37 | | n.a. |
| M29 | 13 15 | 13 52 | 3 44 | 12 18 | 1 5 | 1 26 | 1 48 | 12 52 | 0 1 | 14 20 | 1 7 | 21 20 | 0 47 | 19 27 | 0 5 | 21 49 | 1 2 | 13 48 | 6 37 | 1 2 | 1 30 | 10 35 | | n.a. |
| T 30 | 13n34 | 11s 4 | 2n54 | 11n50 | 1s22 | 0s58 | 1s48 | 13n 7 | 0s 0 | 14s17 | 1n 7 | 21s19 | 0s48 | 19n27 | 0s 5 | 21n49 | 1s 2 | 13n49 | 6s37 | 1n 2 | 1n31 | 10s34 | | n.a. |

Julian Day Number = 1695945.5, Delta T = 03h08m03s
Ecliptic obliquity = 23°42'04, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°01'38, Lahiri = - 4°54'37 Julian Calendar 1 Apr. 70 BCE == Greg. Calendar 30 March 070 BCE

The year -69 astronomical counting style corresponds to year 070 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 70 BCE
# geocentric

## MAY 70 BCE (-69) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 14 22 32 | 6♉40'37 | 5♓25 | 3°R51 | 2♈54 | 5♉ 3 | 11°R 3 | 29♊12 | 26♉21 | 15♊ 4 | 29♉35 | 27♍28 | 26♍ 9 | 26♒ 4 | n.a. | W 1 |
| T 2 | 14 26 29 | 7°38'01 | 17°19 | 3♉18 | 4° 5 | 5°45 | 10♏55 | 29°13 | 26°25 | 15° 5 | 29°36 | 27°30 | 26° 6 | 26°11 | n.a. | T 2 |
| F 3 | 14 30 25 | 8°35'24 | 29°22 | 2°47 | 5°16 | 6°27 | 10°47 | 29°14 | 26°28 | 15° 7 | 29°38 | 27°R30 | 26° 3 | 26°17 | n.a. | F 3 |
| S 4 | 14 34 22 | 9°32'47 | 11♈36 | 2°18 | 6°28 | 7° 8 | 10°40 | 29°15 | 26°31 | 15° 9 | 29°39 | 27°29 | 26° 0 | 26°24 | n.a. | S 4 |
| S 5 | 14 38 18 | 10°30'08 | 24° 6 | 1°52 | 7°39 | 7°50 | 10°32 | 29°16 | 26°35 | 15°11 | 29°40 | 27°26 | 25°56 | 26°31 | n.a. | S 5 |
| M 6 | 14 42 15 | 11°27'29 | 6♉52 | 1°28 | 8°50 | 8°31 | 10°25 | 29°16 | 26°38 | 15°13 | 29°42 | 27°21 | 25°53 | 26°37 | n.a. | M 6 |
| T 7 | 14 46 12 | 12°24'49 | 19°55 | 1° 8 | 10° 1 | 9°13 | 10°17 | 29°17 | 26°42 | 15°15 | 29°43 | 27°15 | 25°50 | 26°44 | n.a. | T 7 |
| W 8 | 14 50 8 | 13°22'08 | 3♊14 | 0°52 | 11°13 | 9°54 | 10° 9 | 29°18 | 26°45 | 15°17 | 29°45 | 27° 7 | 25°47 | 26°51 | n.a. | W 8 |
| T 9 | 14 54 5 | 14°19'27 | 16°47 | 0°39 | 12°24 | 10°35 | 10° 2 | 29°18 | 26°49 | 15°19 | 29°46 | 27° 0 | 25°44 | 26°57 | n.a. | T 9 |
| F 10 | 14 58 1 | 15°16'44 | 0♋32 | 0°31 | 13°35 | 11°17 | 9°54 | 29°18 | 26°52 | 15°21 | 29°47 | 26°53 | 25°41 | 27° 4 | n.a. | F 10 |
| S 11 | 15 1 58 | 16°14'00 | 14°27 | 0°D27 | 14°47 | 11°58 | 9°46 | 29°19 | 26°56 | 15°23 | 29°49 | 26°47 | 25°37 | 27°11 | n.a. | S 11 |
| S 12 | 15 5 54 | 17°11'16 | 28°28 | 0°27 | 15°58 | 12°39 | 9°39 | 29°19 | 26°59 | 15°25 | 29°50 | 26°44 | 25°34 | 27°17 | n.a. | S 12 |
| M13 | 15 9 51 | 18° 8'30 | 12♌35 | 0°31 | 17°10 | 13°20 | 9°31 | 29°R19 | 27° 3 | 15°27 | 29°52 | 26°D42 | 25°31 | 27°24 | n.a. | M13 |
| T 14 | 15 13 48 | 19° 5'43 | 26°44 | 0°41 | 18°21 | 14° 1 | 9°24 | 29°19 | 27° 6 | 15°29 | 29°53 | 26°42 | 25°28 | 27°31 | n.a. | T 14 |
| W15 | 15 17 44 | 20° 2'55 | 10♍55 | 0°54 | 19°33 | 14°42 | 9°17 | 29°19 | 27°10 | 15°31 | 29°54 | 26°43 | 25°25 | 27°37 | n.a. | W15 |
| T 16 | 15 21 41 | 21° 0'07 | 25° 6 | 1°13 | 20°44 | 15°23 | 9° 9 | 29°18 | 27°13 | 15°33 | 29°56 | 26°R44 | 25°22 | 27°44 | n.a. | T 16 |
| F 17 | 15 25 37 | 21°57'17 | 9♎16 | 1°35 | 21°56 | 16° 4 | 9° 2 | 29°18 | 27°17 | 15°35 | 29°57 | 26°43 | 25°18 | 27°51 | n.a. | F 17 |
| S 18 | 15 29 34 | 22°54'27 | 23°21 | 2° 3 | 23° 8 | 16°45 | 8°55 | 29°18 | 27°21 | 15°37 | 29°59 | 26°40 | 25°15 | 27°57 | n.a. | S 18 |
| S 19 | 15 33 30 | 23°51'36 | 7♏18 | 2°34 | 24°19 | 17°26 | 8°47 | 29°17 | 27°24 | 15°39 | 0♊ 0 | 26°35 | 25°12 | 28° 4 | n.a. | S 19 |
| M20 | 15 37 27 | 24°48'44 | 21° 4 | 3°10 | 25°31 | 18° 7 | 8°40 | 29°17 | 27°28 | 15°41 | 0° 2 | 26°28 | 25° 9 | 28°11 | n.a. | M20 |
| T 21 | 15 41 23 | 25°45'53 | 4♐35 | 3°51 | 26°43 | 18°47 | 8°33 | 29°16 | 27°31 | 15°43 | 0° 3 | 26°19 | 25° 6 | 28°17 | n.a. | T 21 |
| W22 | 15 45 20 | 26°43'00 | 17°49 | 4°35 | 27°55 | 19°28 | 8°26 | 29°15 | 27°35 | 15°45 | 0° 4 | 26° 9 | 25° 2 | 28°24 | n.a. | W22 |
| T 23 | 15 49 17 | 27°40'08 | 0♑44 | 5°24 | 29° 6 | 20° 9 | 8°20 | 29°14 | 27°38 | 15°48 | 0° 6 | 25°59 | 24°59 | 28°31 | n.a. | T 23 |
| F 24 | 15 53 13 | 28°37'15 | 13°21 | 6°16 | 0♉18 | 20°49 | 8°13 | 29°13 | 27°42 | 15°50 | 0° 7 | 25°50 | 24°56 | 28°37 | n.a. | F 24 |
| S 25 | 15 57 10 | 29°34'22 | 25°40 | 7°13 | 1°30 | 21°30 | 8° 6 | 29°12 | 27°46 | 15°52 | 0° 9 | 25°43 | 24°53 | 28°44 | n.a. | S 25 |
| S 26 | 16 1 6 | 0♊31'29 | 7♒46 | 8°14 | 2°42 | 22°11 | 7°59 | 29°11 | 27°49 | 15°54 | 0°10 | 25°38 | 24°50 | 28°51 | n.a. | S 26 |
| M27 | 16 5 3 | 1°28'36 | 19°41 | 9°18 | 3°54 | 22°51 | 7°53 | 29°10 | 27°53 | 15°56 | 0°12 | 25°36 | 24°47 | 28°57 | n.a. | M27 |
| T 28 | 16 8 59 | 2°25'43 | 1♓31 | 10°26 | 5° 6 | 23°31 | 7°47 | 29° 8 | 27°56 | 15°58 | 0°13 | 25°D35 | 24°43 | 29° 4 | n.a. | T 28 |
| W29 | 16 12 56 | 3°22'50 | 13°21 | 11°38 | 6°18 | 24°12 | 7°40 | 29° 7 | 28° 0 | 16° 1 | 0°14 | 25°35 | 24°40 | 29°11 | n.a. | W29 |
| T 30 | 16 16 52 | 4°19'57 | 25°16 | 12°54 | 7°30 | 24°52 | 7°34 | 29° 5 | 28° 3 | 16° 3 | 0°16 | 25°R36 | 24°37 | 29°17 | n.a. | T 30 |
| F 31 | 16 20 49 | 5♊17'05 | 7♈22 | 14♉13 | 8♉42 | 25♉33 | 7♏28 | 29♑ 4 | 28♉ 7 | 16♊ 5 | 0♊17 | 25♍35 | 24♍34 | 29♒24 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ⚸ | | ⚷ | | ⚷ | | ⚷ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | | decl | | decl | | decl | | decl | lat |
| W 1 | 13n54 | 7s48 | 1n57 | 11n23 | 1s39 | 0s29 | 1s49 | 13n21 | 0n 0 | 14s15 | 1n 7 | 21s19 | 0s48 | 19n28 | 0s 5 | 21n49 | 1s 2 | 13n49 | 6s37 | 1n 1 | | 1n33 | | 10s32 | | | | | n.a. |
| T 2 | 14 12 | 4 13 | 0 55 | 10 57 | 1 55 | 0 1 | 1 49 | 13 36 | 0 1 | 14 13 | 1 6 | 21 19 | 0 48 | 19 29 | 0 5 | 21 50 | 1 2 | 13 49 | 6 37 | 1 0 | | 1 34 | | 10 31 | | | | | n.a. |
| F 3 | 14 31 | 0 25 | 0s10 | 10 33 | 2 10 | 0n27 | 1 49 | 13 50 | 0 2 | 14 11 | 1 6 | 21 19 | 0 48 | 19 30 | 0 5 | 21 50 | 1 2 | 13 50 | 6 37 | 1 0 | | 1 35 | | 10 29 | | | | | n.a. |
| S 4 | 14 50 | 3n29 | 1 16 | 10 9 | 2 24 | 0 55 | 1 49 | 14 5 | 0 2 | 14 8 | 1 6 | 21 19 | 0 48 | 19 31 | 0 5 | 21 50 | 1 2 | 13 50 | 6 37 | 1 1 | | 1 37 | | 10 28 | | | | | n.a. |
| S 5 | 15 8 | 7 17 | 2 19 | 9 47 | 2 38 | 1 24 | 1 49 | 14 19 | 0 3 | 14 6 | 1 6 | 21 19 | 0 48 | 19 32 | 0 5 | 21 50 | 1 2 | 13 51 | 6 37 | 1 2 | | 1 38 | | 10 26 | | | | | n.a. |
| M 6 | 15 26 | 10 51 | 3 17 | 9 28 | 2 50 | 1 52 | 1 49 | 14 33 | 0 4 | 14 4 | 1 6 | 21 19 | 0 49 | 19 32 | 0 5 | 21 51 | 1 2 | 13 51 | 6 37 | 1 4 | | 1 39 | | 10 24 | | | | | n.a. |
| T 7 | 15 44 | 13 58 | 4 5 | 9 10 | 3 1 | 2 20 | 1 49 | 14 47 | 0 4 | 14 1 | 1 6 | 21 19 | 0 49 | 19 33 | 0 5 | 21 51 | 1 2 | 13 51 | 6 36 | 1 6 | | 1 40 | | 10 23 | | | | | n.a. |
| W 8 | 16 1 | 16 25 | 4 42 | 8 55 | 3 12 | 2 49 | 1 49 | 15 1 | 0 5 | 13 59 | 1 6 | 21 19 | 0 49 | 19 34 | 0 5 | 21 51 | 1 2 | 13 52 | 6 36 | 1 9 | | 1 42 | | 10 21 | | | | | n.a. |
| T 9 | 16 19 | 18 1 | 5 3 | 8 42 | 3 21 | 3 17 | 1 49 | 15 15 | 0 5 | 13 57 | 1 6 | 21 19 | 0 49 | 19 35 | 0 5 | 21 51 | 1 2 | 13 52 | 6 36 | 1 12 | | 1 43 | | 10 20 | | | | | n.a. |
| F 10 | 16 36 | 18 35 | 5 7 | 8 31 | 3 29 | 3 45 | 1 48 | 15 28 | 0 6 | 13 54 | 1 6 | 21 19 | 0 49 | 19 36 | 0 5 | 21 52 | 1 2 | 13 52 | 6 36 | 1 15 | | 1 44 | | 10 18 | | | | | n.a. |
| S 11 | 16 52 | 18 3 | 4 53 | 8 24 | 3 35 | 4 14 | 1 48 | 15 42 | 0 7 | 13 52 | 1 5 | 21 19 | 0 49 | 19 37 | 0 5 | 21 52 | 1 2 | 13 53 | 6 36 | 1 17 | | 1 45 | | 10 17 | | | | | n.a. |
| S 12 | 17 9 | 16 25 | 4 22 | 8 18 | 3 41 | 4 42 | 1 47 | 15 55 | 0 7 | 13 50 | 1 5 | 21 20 | 0 50 | 19 37 | 0 5 | 21 52 | 1 2 | 13 53 | 6 36 | 1 19 | | 1 47 | | 10 15 | | | | | n.a. |
| M13 | 17 25 | 13 47 | 3 35 | 8 16 | 3 45 | 5 10 | 1 47 | 16 8 | 0 8 | 13 48 | 1 5 | 21 20 | 0 50 | 19 38 | 0 5 | 21 52 | 1 2 | 13 54 | 6 36 | 1 19 | | 1 48 | | 10 14 | | | | | n.a. |
| T 14 | 17 41 | 10 19 | 2 34 | 8 16 | 3 48 | 5 38 | 1 46 | 16 21 | 0 8 | 13 45 | 1 5 | 21 20 | 0 50 | 19 39 | 0 5 | 21 53 | 1 2 | 13 54 | 6 36 | 1 19 | | 1 49 | | 10 12 | | | | | n.a. |
| W15 | 17 57 | 6 15 | 1 24 | 8 19 | 3 50 | 6 6 | 1 45 | 16 34 | 0 9 | 13 43 | 1 5 | 21 20 | 0 50 | 19 40 | 0 5 | 21 53 | 1 2 | 13 54 | 6 36 | 1 19 | | 1 51 | | 10 10 | | | | | n.a. |
| T 16 | 18 12 | 1 50 | 0 9 | 8 24 | 3 51 | 6 34 | 1 45 | 16 47 | 0 10 | 13 41 | 1 5 | 21 20 | 0 50 | 19 41 | 0 5 | 21 53 | 1 2 | 13 55 | 6 36 | 1 19 | | 1 52 | | 10 9 | | | | | n.a. |
| F 17 | 18 27 | 2s41 | 1n 7 | 8 32 | 3 51 | 7 2 | 1 44 | 16 59 | 0 10 | 13 39 | 1 4 | 21 21 | 0 50 | 19 42 | 0 5 | 21 53 | 1 2 | 13 55 | 6 36 | 1 19 | | 1 53 | | 10 7 | | | | | n.a. |
| S 18 | 18 42 | 7 2 | 2 18 | 8 43 | 3 50 | 7 30 | 1 43 | 17 12 | 0 11 | 13 37 | 1 4 | 21 21 | 0 51 | 19 42 | 0 5 | 21 54 | 1 2 | 13 55 | 6 36 | 1 20 | | 1 54 | | 10 6 | | | | | n.a. |
| S 19 | 18 57 | 10 57 | 3 20 | 8 55 | 3 48 | 7 57 | 1 42 | 17 24 | 0 11 | 13 34 | 1 4 | 21 21 | 0 51 | 19 43 | 0 5 | 21 54 | 1 2 | 13 56 | 6 35 | 1 22 | | 1 56 | | 10 4 | | | | | n.a. |
| M20 | 19 11 | 14 13 | 4 9 | 9 10 | 3 46 | 8 25 | 1 41 | 17 36 | 0 12 | 13 32 | 1 4 | 21 21 | 0 51 | 19 44 | 0 5 | 21 54 | 1 2 | 13 56 | 6 35 | 1 25 | | 1 57 | | 10 3 | | | | | n.a. |
| T 21 | 19 25 | 16 39 | 4 43 | 9 28 | 3 42 | 8 52 | 1 40 | 17 48 | 0 13 | 13 30 | 1 4 | 21 22 | 0 51 | 19 45 | 0 5 | 21 54 | 1 2 | 13 56 | 6 35 | 1 29 | | 1 58 | | 10 1 | | | | | n.a. |
| W22 | 19 38 | 18 8 | 5 1 | 9 47 | 3 37 | 9 19 | 1 38 | 18 0 | 0 13 | 13 28 | 1 4 | 21 22 | 0 51 | 19 46 | 0 5 | 21 55 | 1 2 | 13 57 | 6 35 | 1 33 | | 1 59 | | 10 0 | | | | | n.a. |
| T 23 | 19 51 | 18 39 | 5 3 | 10 8 | 3 32 | 9 46 | 1 37 | 18 12 | 0 14 | 13 26 | 1 3 | 21 22 | 0 51 | 19 46 | 0 5 | 21 55 | 1 2 | 13 57 | 6 35 | 1 37 | | 2 1 | | 9 58 | | | | | n.a. |
| F 24 | 20 4 | 18 12 | 4 50 | 10 31 | 3 26 | 10 12 | 1 36 | 18 23 | 0 14 | 13 24 | 1 3 | 21 23 | 0 52 | 19 47 | 0 5 | 21 55 | 1 1 | 13 57 | 6 35 | 1 40 | | 2 2 | | 9 56 | | | | | n.a. |
| S 25 | 20 17 | 16 55 | 4 24 | 10 56 | 3 19 | 10 39 | 1 34 | 18 35 | 0 15 | 13 22 | 1 3 | 21 23 | 0 52 | 19 48 | 0 5 | 21 55 | 1 1 | 13 58 | 6 35 | 1 43 | | 2 3 | | 9 55 | | | | | n.a. |
| S 26 | 20 29 | 14 53 | 3 47 | 11 23 | 3 11 | 11 5 | 1 33 | 18 46 | 0 16 | 13 20 | 1 3 | 21 23 | 0 52 | 19 49 | 0 5 | 21 56 | 1 1 | 13 58 | 6 35 | 1 45 | | 2 5 | | 9 53 | | | | | n.a. |
| M27 | 20 41 | 12 14 | 2 59 | 11 51 | 3 3 | 11 31 | 1 31 | 18 57 | 0 16 | 13 18 | 1 3 | 21 24 | 0 52 | 19 50 | 0 5 | 21 56 | 1 1 | 13 58 | 6 35 | 1 46 | | 2 6 | | 9 52 | | | | | n.a. |
| T 28 | 20 52 | 9 7 | 2 5 | 12 21 | 2 55 | 11 57 | 1 30 | 19 8 | 0 17 | 13 16 | 1 2 | 21 24 | 0 52 | 19 51 | 0 5 | 21 56 | 1 1 | 13 59 | 6 35 | 1 46 | | 2 7 | | 9 50 | | | | | n.a. |
| W29 | 21 4 | 5 37 | 1 5 | 12 52 | 2 45 | 12 23 | 1 28 | 19 18 | 0 17 | 13 14 | 1 2 | 21 25 | 0 52 | 19 51 | 0 5 | 21 56 | 1 1 | 13 59 | 6 35 | 1 46 | | 2 8 | | 9 48 | | | | | n.a. |
| T 30 | 21 14 | 1 52 | 0 2 | 13 25 | 2 36 | 12 48 | 1 27 | 19 29 | 0 18 | 13 13 | 1 2 | 21 25 | 0 53 | 19 52 | 0 5 | 21 57 | 1 1 | 14 0 | 6 35 | 1 46 | | 2 10 | | 9 47 | | | | | n.a. |
| F 31 | 21n25 | 2n 0 | 1s 2 | 13n58 | 2s25 | 13n13 | 1s25 | 19n39 | 0n18 | 13s11 | 1n 2 | 21s26 | 0s53 | 19n53 | 0s 5 | 21n57 | 1s 1 | 14n 0 | 6s35 | 1n46 | | 2n11 | | 9s45 | | | | | n.a. |

Julian Day Number = 1695975.5, Delta T = 03h08m02s
Ecliptic obliquity = 23°42'03, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°01'34, Lahiri = - 4°54'33 Julian Calendar 1 May 70 BCE == Greg. Calendar 29 Apr. 070 BCE

The year -69 astronomical counting style corresponds to year 070 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 70 BCE
# geocentric

## JUNE 70 BCE (-69) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 24 46 | 6♊14'12 | 19♈42 | 15♉36 | 9♉54 | 26♉13 | 7°R22 | 29°R 2 | 28♉10 | 16♊ 7 | 0♊19 | 25°R33 | 24♍31 | 29♒31 | n.a. | S 1 |
| S 2 | 16 28 42 | 7°11'20 | 2♉21 | 17° 3 | 11° 7 | 26°53 | 7♏16 | 29♂ 0 | 28°14 | 16° 9 | 0°20 | 25♍28 | 24°27 | 29°37 | n.a. | S 2 |
| M 3 | 16 32 39 | 8° 8'28 | 15°22 | 18°33 | 12°19 | 27°33 | 7°11 | 28°58 | 28°17 | 16°12 | 0°22 | 25°21 | 24°24 | 29°44 | n.a. | M 3 |
| T 4 | 16 36 35 | 9° 5'36 | 28°43 | 20° 7 | 13°31 | 28°14 | 7° 5 | 28°56 | 28°21 | 16°14 | 0°23 | 25°11 | 24°21 | 29°51 | n.a. | T 4 |
| W 5 | 16 40 32 | 10° 2'44 | 12♊25 | 21°44 | 14°43 | 28°54 | 7° 0 | 28°54 | 28°25 | 16°16 | 0°24 | 25° 0 | 24°18 | 29°57 | n.a. | W 5 |
| T 6 | 16 44 28 | 10°59'52 | 26°24 | 23°24 | 15°56 | 29°34 | 6°55 | 28°52 | 28°28 | 16°18 | 0°26 | 24°49 | 24°15 | 0♓ 4 | n.a. | T 6 |
| F 7 | 16 48 25 | 11°57'00 | 10♋36 | 25° 8 | 17° 8 | 0♊14 | 6°49 | 28°49 | 28°32 | 16°20 | 0°27 | 24°38 | 24°12 | 0°11 | n.a. | F 7 |
| S 8 | 16 52 21 | 12°54'08 | 24°54 | 26°55 | 18°20 | 0°54 | 6°45 | 28°47 | 28°35 | 16°23 | 0°29 | 24°30 | 24° 8 | 0°17 | n.a. | S 8 |
| S 9 | 16 56 18 | 13°51'17 | 9♌14 | 28°44 | 19°33 | 1°34 | 6°40 | 28°45 | 28°39 | 16°25 | 0°30 | 24°24 | 24° 5 | 0°24 | n.a. | S 9 |
| M10 | 17 0 15 | 14°48'25 | 23°32 | 0♊37 | 20°45 | 2°14 | 6°35 | 28°42 | 28°42 | 16°27 | 0°32 | 24°21 | 24° 2 | 0°31 | n.a. | M10 |
| T 11 | 17 4 11 | 15°45'33 | 7♍45 | 2°33 | 21°58 | 2°54 | 6°31 | 28°39 | 28°45 | 16°29 | 0°33 | 24°19 | 23°59 | 0°37 | n.a. | T 11 |
| W12 | 17 8 8 | 16°42'41 | 21°51 | 4°30 | 23°10 | 3°34 | 6°26 | 28°37 | 28°49 | 16°32 | 0°34 | 24°19 | 23°56 | 0°44 | n.a. | W12 |
| T 13 | 17 12 4 | 17°39'49 | 5♎50 | 6°31 | 24°23 | 4°13 | 6°22 | 28°34 | 28°52 | 16°34 | 0°36 | 24°19 | 23°53 | 0°50 | n.a. | T 13 |
| F 14 | 17 16 1 | 18°36'57 | 19°40 | 8°33 | 25°35 | 4°53 | 6°18 | 28°31 | 28°56 | 16°36 | 0°37 | 24°17 | 23°49 | 0°57 | n.a. | F 14 |
| S 15 | 17 19 57 | 19°34'05 | 3♏22 | 10°37 | 26°48 | 5°33 | 6°14 | 28°28 | 28°59 | 16°38 | 0°39 | 24°13 | 23°46 | 1° 4 | n.a. | S 15 |
| S 16 | 17 23 54 | 20°31'13 | 16°55 | 12°42 | 28° 1 | 6°13 | 6°10 | 28°25 | 29° 2 | 16°41 | 0°40 | 24° 7 | 23°43 | 1°10 | n.a. | S 16 |
| M17 | 17 27 50 | 21°28'22 | 0♐17 | 14°49 | 29°13 | 6°52 | 6° 7 | 28°22 | 29° 6 | 16°43 | 0°41 | 23°57 | 23°40 | 1°17 | n.a. | M17 |
| T 18 | 17 31 47 | 22°25'31 | 13°27 | 16°56 | 0♊26 | 7°32 | 6° 4 | 28°19 | 29° 9 | 16°45 | 0°43 | 23°46 | 23°37 | 1°24 | n.a. | T 18 |
| W19 | 17 35 44 | 23°22'41 | 26°24 | 19° 4 | 1°39 | 8°11 | 6° 0 | 28°16 | 29°13 | 16°47 | 0°44 | 23°33 | 23°33 | 1°30 | n.a. | W19 |
| T 20 | 17 39 40 | 24°19'51 | 9♑ 5 | 21°12 | 2°51 | 8°51 | 5°57 | 28°12 | 29°16 | 16°49 | 0°45 | 23°20 | 23°30 | 1°37 | n.a. | T 20 |
| F 21 | 17 43 37 | 25°17'02 | 21°33 | 23°20 | 4° 4 | 9°31 | 5°54 | 28° 9 | 29°19 | 16°52 | 0°47 | 23° 9 | 23°27 | 1°44 | n.a. | F 21 |
| S 22 | 17 47 33 | 26°14'14 | 3♒46 | 25°28 | 5°17 | 10°10 | 5°52 | 28° 6 | 29°22 | 16°54 | 0°48 | 22°59 | 23°24 | 1°50 | n.a. | S 22 |
| S 23 | 17 51 30 | 27°11'26 | 15°48 | 27°35 | 6°30 | 10°49 | 5°49 | 28° 2 | 29°26 | 16°56 | 0°49 | 22°53 | 23°21 | 1°57 | n.a. | S 23 |
| M24 | 17 55 26 | 28° 8'39 | 27°41 | 29°42 | 7°43 | 11°29 | 5°47 | 27°59 | 29°29 | 16°58 | 0°51 | 22°48 | 23°18 | 2° 4 | n.a. | M24 |
| T 25 | 17 59 23 | 29° 5'53 | 9♓29 | 1♋48 | 8°56 | 12° 8 | 5°45 | 27°55 | 29°32 | 17° 0 | 0°52 | 22°46 | 23°14 | 2°10 | n.a. | T 25 |
| W26 | 18 3 20 | 0♋ 3'08 | 21°18 | 3°52 | 10° 9 | 12°48 | 5°43 | 27°51 | 29°35 | 17° 3 | 0°53 | 22°D46 | 23°11 | 2°17 | n.a. | W26 |
| T 27 | 18 7 16 | 1° 0'24 | 3♈12 | 5°56 | 11°22 | 13°27 | 5°41 | 27°48 | 29°39 | 17° 5 | 0°54 | 22°R46 | 23° 8 | 2°24 | n.a. | T 27 |
| F 28 | 18 11 13 | 1°57'42 | 15°18 | 7°58 | 12°35 | 14° 6 | 5°40 | 27°44 | 29°42 | 17° 7 | 0°56 | 22°45 | 23° 5 | 2°30 | n.a. | F 28 |
| S 29 | 18 15 9 | 2°55'00 | 27°40 | 9°58 | 13°48 | 14°45 | 5°38 | 27°40 | 29°45 | 17° 9 | 0°57 | 22°43 | 23° 2 | 2°37 | n.a. | S 29 |
| S 30 | 18 19 6 | 3♋52'19 | 10♉23 | 11♋57 | 15♊ 1 | 15♊24 | 5♏37 | 27♑36 | 29♉48 | 17♊11 | 0♊58 | 22♍39 | 22♍59 | 2♓44 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21n35 | 5n52 | 2s 5 | 14n33 | 2s15 | 13n38 | 1s23 | 19n50 | 0n19 | 13s 9 | 1n 2 | 21s26 | 0s53 | 19n54 | 0s 4 | 21n57 | 1s 1 | 14n 0 | 6s35 | 1n47 | 2n12 | 9s44 | | n.a. |
| S 2 | 21 45 | 9 34 | 3 2 | 15 8 | 2 4 | 14 2 | 1 21 | 20 0 | 0 20 | 13 7 | 1 1 | 21 27 | 0 53 | 19 55 | 0 4 | 21 57 | 1 1 | 14 0 | 6 35 | 1 49 | 2 13 | 9 42 | | n.a. |
| M 3 | 21 54 | 12 55 | 3 52 | 15 44 | 1 53 | 14 26 | 1 19 | 20 9 | 0 20 | 13 6 | 1 1 | 21 27 | 0 53 | 19 55 | 0 4 | 21 58 | 1 1 | 14 1 | 6 35 | 1 52 | 2 15 | 9 41 | | n.a. |
| T 4 | 22 3 | 15 42 | 4 30 | 16 21 | 1 41 | 14 50 | 1 17 | 20 19 | 0 21 | 13 4 | 1 1 | 21 28 | 0 53 | 19 56 | 0 4 | 21 58 | 1 1 | 14 1 | 6 35 | 1 56 | 2 16 | 9 39 | | n.a. |
| W 5 | 22 12 | 17 40 | 4 54 | 16 58 | 1 29 | 15 14 | 1 16 | 20 29 | 0 21 | 13 3 | 1 1 | 21 29 | 0 54 | 19 57 | 0 4 | 21 58 | 1 1 | 14 1 | 6 35 | 2 0 | 2 17 | 9 37 | | n.a. |
| T 6 | 22 20 | 18 38 | 5 1 | 17 35 | 1 17 | 15 37 | 1 13 | 20 38 | 0 22 | 13 1 | 1 0 | 21 29 | 0 54 | 19 58 | 0 4 | 21 58 | 1 1 | 14 2 | 6 35 | 2 5 | 2 19 | 9 36 | | n.a. |
| F 7 | 22 28 | 18 27 | 4 50 | 18 12 | 1 5 | 16 0 | 1 11 | 20 47 | 0 23 | 13 0 | 1 0 | 21 30 | 0 54 | 19 59 | 0 4 | 21 59 | 1 1 | 14 2 | 6 35 | 2 9 | 2 20 | 9 34 | | n.a. |
| S 8 | 22 36 | 17 7 | 4 21 | 18 49 | 0 53 | 16 22 | 1 9 | 20 56 | 0 23 | 12 58 | 1 0 | 21 31 | 0 54 | 19 59 | 0 4 | 21 59 | 1 1 | 14 2 | 6 35 | 2 13 | 2 21 | 9 33 | | n.a. |
| S 9 | 22 43 | 14 41 | 3 35 | 19 26 | 0 41 | 16 44 | 1 7 | 21 5 | 0 24 | 12 57 | 1 0 | 21 31 | 0 54 | 20 0 | 0 4 | 21 59 | 1 1 | 14 3 | 6 35 | 2 15 | 2 22 | 9 31 | | n.a. |
| M10 | 22 49 | 11 23 | 2 35 | 20 2 | 0 29 | 17 6 | 1 5 | 21 14 | 0 24 | 12 56 | 0 59 | 21 32 | 0 54 | 20 1 | 0 4 | 21 59 | 1 1 | 14 3 | 6 35 | 2 16 | 2 24 | 9 29 | | n.a. |
| T 11 | 22 56 | 7 25 | 1 27 | 20 37 | 0 17 | 17 27 | 1 3 | 21 22 | 0 25 | 12 54 | 0 59 | 21 33 | 0 55 | 20 2 | 0 4 | 21 59 | 1 1 | 14 3 | 6 35 | 2 17 | 2 25 | 9 28 | | n.a. |
| W12 | 23 2 | 3 4 | 0 13 | 21 11 | 0 5 | 17 47 | 1 1 | 21 31 | 0 25 | 12 53 | 0 59 | 21 33 | 0 55 | 20 2 | 0 4 | 22 0 | 1 1 | 14 4 | 6 35 | 2 17 | 2 26 | 9 26 | | n.a. |
| T 13 | 23 7 | 1s25 | 1n 1 | 21 44 | 0n 6 | 18 8 | 0 58 | 21 39 | 0 26 | 12 52 | 0 59 | 21 34 | 0 55 | 20 3 | 0 4 | 22 0 | 1 1 | 14 4 | 6 35 | 2 17 | 2 27 | 9 25 | | n.a. |
| F 14 | 23 12 | 5 46 | 2 10 | 22 15 | 0 17 | 18 28 | 0 56 | 21 47 | 0 27 | 12 51 | 0 59 | 21 35 | 0 55 | 20 4 | 0 4 | 22 0 | 1 1 | 14 4 | 6 35 | 2 18 | 2 29 | 9 23 | | n.a. |
| S 15 | 23 17 | 9 47 | 3 11 | 22 44 | 0 28 | 18 47 | 0 54 | 21 55 | 0 27 | 12 50 | 0 58 | 21 35 | 0 55 | 20 5 | 0 4 | 22 0 | 1 1 | 14 4 | 6 35 | 2 19 | 2 30 | 9 21 | | n.a. |
| S 16 | 23 21 | 13 14 | 4 0 | 23 12 | 0 38 | 19 6 | 0 51 | 22 2 | 0 28 | 12 49 | 0 58 | 21 36 | 0 55 | 20 6 | 0 4 | 22 1 | 1 1 | 14 5 | 6 35 | 2 22 | 2 31 | 9 20 | | n.a. |
| M17 | 23 25 | 15 56 | 4 36 | 23 37 | 0 47 | 19 24 | 0 49 | 22 10 | 0 28 | 12 48 | 0 58 | 21 37 | 0 55 | 20 6 | 0 4 | 22 1 | 1 1 | 14 5 | 6 35 | 2 26 | 2 33 | 9 18 | | n.a. |
| T 18 | 23 29 | 17 46 | 4 56 | 23 59 | 0 56 | 19 42 | 0 46 | 22 17 | 0 29 | 12 47 | 0 58 | 21 38 | 0 56 | 20 7 | 0 4 | 22 1 | 1 1 | 14 5 | 6 35 | 2 30 | 2 34 | 9 16 | | n.a. |
| W19 | 23 32 | 18 39 | 5 0 | 24 19 | 1 5 | 20 0 | 0 44 | 22 24 | 0 29 | 12 46 | 0 57 | 21 39 | 0 56 | 20 8 | 0 4 | 22 1 | 1 1 | 14 5 | 6 35 | 2 35 | 2 35 | 9 15 | | n.a. |
| T 20 | 23 35 | 18 34 | 4 49 | 24 37 | 1 12 | 20 17 | 0 42 | 22 31 | 0 30 | 12 45 | 0 57 | 21 39 | 0 56 | 20 8 | 0 4 | 22 2 | 1 1 | 14 6 | 6 35 | 2 40 | 2 36 | 9 13 | | n.a. |
| F 21 | 23 37 | 17 36 | 4 25 | 24 51 | 1 19 | 20 33 | 0 39 | 22 37 | 0 31 | 12 45 | 0 57 | 21 40 | 0 56 | 20 9 | 0 4 | 22 2 | 1 1 | 14 6 | 6 35 | 2 45 | 2 38 | 9 12 | | n.a. |
| S 22 | 23 39 | 15 49 | 3 49 | 25 3 | 1 26 | 20 49 | 0 37 | 22 44 | 0 31 | 12 44 | 0 56 | 21 41 | 0 56 | 20 10 | 0 4 | 22 2 | 1 1 | 14 6 | 6 35 | 2 49 | 2 39 | 9 10 | | n.a. |
| S 23 | 23 40 | 13 22 | 3 3 | 25 12 | 1 31 | 21 4 | 0 34 | 22 50 | 0 32 | 12 43 | 0 56 | 21 42 | 0 56 | 20 11 | 0 4 | 22 2 | 1 1 | 14 6 | 6 35 | 2 51 | 2 40 | 9 8 | | n.a. |
| M24 | 23 41 | 10 24 | 2 9 | 25 18 | 1 36 | 21 19 | 0 32 | 22 56 | 0 32 | 12 43 | 0 56 | 21 43 | 0 56 | 20 11 | 0 4 | 22 2 | 1 1 | 14 7 | 6 35 | 2 53 | 2 41 | 9 7 | | n.a. |
| T 25 | 23 42 | 7 1 | 1 10 | 25 21 | 1 40 | 21 33 | 0 29 | 23 2 | 0 33 | 12 42 | 0 56 | 21 44 | 0 57 | 20 12 | 0 4 | 22 3 | 1 1 | 14 7 | 6 35 | 2 54 | 2 43 | 9 5 | | n.a. |
| W26 | 23 42 | 3 22 | 0 8 | 25 22 | 1 43 | 21 47 | 0 27 | 23 8 | 0 33 | 12 42 | 0 55 | 21 45 | 0 57 | 20 13 | 0 4 | 22 3 | 1 1 | 14 7 | 6 35 | 2 54 | 2 44 | 9 4 | | n.a. |
| T 27 | 23 42 | 0n27 | 0s55 | 25 20 | 1 46 | 22 0 | 0 24 | 23 13 | 0 34 | 12 42 | 0 55 | 21 45 | 0 57 | 20 13 | 0 4 | 22 3 | 1 1 | 14 7 | 6 35 | 2 54 | 2 45 | 9 2 | | n.a. |
| F 28 | 23 41 | 4 18 | 1 57 | 25 15 | 1 48 | 22 12 | 0 21 | 23 19 | 0 35 | 12 41 | 0 55 | 21 46 | 0 57 | 20 14 | 0 4 | 22 3 | 1 1 | 14 8 | 6 35 | 2 54 | 2 47 | 9 0 | | n.a. |
| S 29 | 23 40 | 8 3 | 2 54 | 25 8 | 1 49 | 22 24 | 0 19 | 23 24 | 0 35 | 12 41 | 0 55 | 21 47 | 0 57 | 20 15 | 0 4 | 22 4 | 1 1 | 14 8 | 6 35 | 2 55 | 2 48 | 8 59 | | n.a. |
| S 30 | 23n39 | 11n33 | 3s44 | 24n59 | 1n50 | 22n35 | 0s16 | 23n29 | 0n36 | 12s41 | 0n54 | 21s48 | 0s57 | 20n16 | 0s 4 | 22n 4 | 1s 1 | 14n 8 | 6s35 | 2n57 | 2n49 | 8s57 | | n.a. |

Julian Day Number = 1696006.5, Delta T = 03h08m01s
Ecliptic obliquity = 23°42'03, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°01'30, Lahiri = - 4°54'29 Julian Calendar 1 June 70 BCE == Greg. Calendar 30 May 070 BCE

The year -69 astronomical counting style corresponds to year 070 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 70 BCE
# geocentric

## JULY 70 BCE (-69) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 18 23 2 | 4♋49'40 | 23♉30 | 13♋55 | 16♊14 | 16♊ 4 | 5°R36 | 27°R32 | 29♉51 | 17♊14 | 0♊59 | 22°R32 | 22♍55 | 2♓50 | n.a. | M 1 |
| T 2 | 18 26 59 | 5°47'02 | 7♊ 3 | 15°51 | 17°28 | 16°43 | 5♏35 | 27♑28 | 29°54 | 17°16 | 1° 1 | 22♍23 | 22°52 | 2°57 | n.a. | T 2 |
| W 3 | 18 30 55 | 6°44'25 | 21° 1 | 17°46 | 18°41 | 17°22 | 5°34 | 27°24 | 29°57 | 17°18 | 1° 2 | 22°12 | 22°49 | 3° 4 | n.a. | W 3 |
| T 4 | 18 34 52 | 7°41'49 | 5♋20 | 19°39 | 19°54 | 18° 1 | 5°34 | 27°20 | 0♊ 0 | 17°20 | 1° 3 | 22° 1 | 22°46 | 3°10 | n.a. | T 4 |
| F 5 | 18 38 49 | 8°39'14 | 19°55 | 21°30 | 21° 7 | 18°40 | 5°33 | 27°16 | 0° 3 | 17°22 | 1° 4 | 21°51 | 22°43 | 3°17 | n.a. | F 5 |
| S 6 | 18 42 45 | 9°36'40 | 4♌38 | 23°20 | 22°21 | 19°19 | 5°D33 | 27°12 | 0° 6 | 17°24 | 1° 5 | 21°43 | 22°39 | 3°24 | n.a. | S 6 |
| S 7 | 18 46 42 | 10°34'07 | 19°22 | 25° 8 | 23°34 | 19°58 | 5°33 | 27° 7 | 0° 9 | 17°26 | 1° 7 | 21°37 | 22°36 | 3°30 | n.a. | S 7 |
| M 8 | 18 50 38 | 11°31'35 | 3♍59 | 26°55 | 24°48 | 20°37 | 5°34 | 27° 3 | 0°12 | 17°28 | 1° 8 | 21°34 | 22°33 | 3°37 | n.a. | M 8 |
| T 9 | 18 54 35 | 12°29'03 | 18°26 | 28°40 | 26° 1 | 21°16 | 5°34 | 26°59 | 0°15 | 17°30 | 1° 9 | 21°D33 | 22°30 | 3°44 | n.a. | T 9 |
| W10 | 18 58 31 | 13°26'33 | 2♎38 | 0♌23 | 27°15 | 21°54 | 5°35 | 26°55 | 0°18 | 17°32 | 1°10 | 21°33 | 22°27 | 3°50 | n.a. | W10 |
| T 11 | 19 2 28 | 14°24'03 | 16°35 | 2° 5 | 28°28 | 22°33 | 5°36 | 26°50 | 0°20 | 17°34 | 1°11 | 21°R33 | 22°24 | 3°57 | n.a. | T 11 |
| F 12 | 19 6 24 | 15°21'35 | 0♏17 | 3°45 | 29°42 | 23°12 | 5°37 | 26°46 | 0°23 | 17°37 | 1°12 | 21°32 | 22°20 | 4° 3 | n.a. | F 12 |
| S 13 | 19 10 21 | 16°19'07 | 13°44 | 5°24 | 0♋55 | 23°51 | 5°38 | 26°41 | 0°26 | 17°39 | 1°13 | 21°29 | 22°17 | 4°10 | n.a. | S 13 |
| S 14 | 19 14 18 | 17°16'40 | 26°58 | 7° 1 | 2° 9 | 24°29 | 5°39 | 26°37 | 0°29 | 17°41 | 1°14 | 21°24 | 22°14 | 4°17 | n.a. | S 14 |
| M15 | 19 18 14 | 18°14'15 | 10♐ 0 | 8°37 | 3°23 | 25° 8 | 5°41 | 26°33 | 0°31 | 17°43 | 1°15 | 21°16 | 22°11 | 4°23 | n.a. | M15 |
| T 16 | 19 22 11 | 19°11'51 | 22°49 | 10°11 | 4°36 | 25°47 | 5°42 | 26°28 | 0°34 | 17°44 | 1°16 | 21° 6 | 22° 8 | 4°30 | n.a. | T 16 |
| W17 | 19 26 7 | 20° 9'28 | 5♑27 | 11°43 | 5°50 | 26°25 | 5°44 | 26°24 | 0°36 | 17°46 | 1°17 | 20°55 | 22° 5 | 4°37 | n.a. | W17 |
| T 18 | 19 30 4 | 21° 7'06 | 17°52 | 13°14 | 7° 4 | 27° 4 | 5°46 | 26°19 | 0°39 | 17°48 | 1°18 | 20°45 | 22° 1 | 4°43 | n.a. | T 18 |
| F 19 | 19 34 0 | 22° 4'45 | 0♒ 7 | 14°44 | 8°18 | 27°42 | 5°49 | 26°15 | 0°42 | 17°50 | 1°19 | 20°35 | 21°58 | 4°50 | n.a. | F 19 |
| S 20 | 19 37 57 | 23° 2'27 | 12°11 | 16°12 | 9°31 | 28°21 | 5°51 | 26°10 | 0°44 | 17°52 | 1°20 | 20°27 | 21°55 | 4°57 | n.a. | S 20 |
| S 21 | 19 41 53 | 24° 0'09 | 24° 7 | 17°38 | 10°45 | 28°59 | 5°54 | 26° 6 | 0°47 | 17°54 | 1°21 | 20°21 | 21°52 | 5° 3 | n.a. | S 21 |
| M22 | 19 45 50 | 24°57'53 | 5♓57 | 19° 3 | 11°59 | 29°38 | 5°56 | 26° 1 | 0°49 | 17°56 | 1°22 | 20°18 | 21°49 | 5°10 | n.a. | M22 |
| T 23 | 19 49 47 | 25°55'39 | 17°43 | 20°26 | 13°13 | 0♋16 | 5°59 | 25°57 | 0°51 | 17°58 | 1°23 | 20°D17 | 21°45 | 5°17 | n.a. | T 23 |
| W24 | 19 53 43 | 26°53'27 | 29°31 | 21°48 | 14°27 | 0°55 | 6° 2 | 25°52 | 0°54 | 18° 0 | 1°24 | 20°17 | 21°42 | 5°23 | n.a. | W24 |
| T 25 | 19 57 40 | 27°51'16 | 11♈25 | 23° 7 | 15°41 | 1°33 | 6° 6 | 25°47 | 0°56 | 18° 1 | 1°25 | 20°18 | 21°39 | 5°30 | n.a. | T 25 |
| F 26 | 20 1 36 | 28°49'08 | 23°29 | 24°25 | 16°55 | 2°11 | 6° 9 | 25°43 | 0°58 | 18° 3 | 1°26 | 20°R19 | 21°36 | 5°37 | n.a. | F 26 |
| S 27 | 20 5 33 | 29°47'01 | 5♉50 | 25°42 | 18° 9 | 2°49 | 6°13 | 25°38 | 1° 1 | 18° 5 | 1°27 | 20°19 | 21°33 | 5°43 | n.a. | S 27 |
| S 28 | 20 9 29 | 0♌44'56 | 18°31 | 26°56 | 19°23 | 3°28 | 6°17 | 25°34 | 1° 3 | 18° 7 | 1°28 | 20°17 | 21°30 | 5°50 | n.a. | S 28 |
| M29 | 20 13 26 | 1°42'53 | 1♊37 | 28° 9 | 20°37 | 4° 6 | 6°21 | 25°29 | 1° 5 | 18° 9 | 1°28 | 20°14 | 21°26 | 5°57 | n.a. | M29 |
| T 30 | 20 17 22 | 2°40'52 | 15°11 | 29°19 | 21°52 | 4°44 | 6°25 | 25°25 | 1° 7 | 18°10 | 1°29 | 20° 8 | 21°23 | 6° 3 | n.a. | T 30 |
| W31 | 20 21 19 | 3♌38'53 | 29♊13 | 0♍28 | 23♋ 6 | 5♋22 | 6♏29 | 25♑20 | 1♊ 9 | 18♊12 | 1♊30 | 20♍ 2 | 21♍20 | 6♓10 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 23n37 | 14n35 | 4s24 | 24n47 | 1n50 | 22n45 | 0s14 | 23n34 | 0n36 | 12s41 | 0n54 | 21s49 | 0s57 | 20n16 | 0s 4 | 22n 4 | 1s 1 | 14n 8 | 6s35 | 3n 0 | 2n50 | 8s55 | | n.a. |
| T 2 | 23 34 | 16 56 | 4 51 | 24 33 | 1 49 | 22 55 | 0 11 | 23 38 | 0 37 | 12 41 | 0 54 | 21 50 | 0 57 | 20 17 | 0 4 | 22 4 | 1 1 | 14 9 | 6 35 | 3 3 | 2 52 | 8 54 | | n.a. |
| W 3 | 23 32 | 18 22 | 5 2 | 24 17 | 1 48 | 23 4 | 0 9 | 23 43 | 0 37 | 12 41 | 0 54 | 21 51 | 0 58 | 20 18 | 0 4 | 22 4 | 1 1 | 14 9 | 6 35 | 3 7 | 2 53 | 8 52 | | n.a. |
| T 4 | 23 28 | 18 42 | 4 54 | 23 59 | 1 46 | 23 13 | 0 6 | 23 47 | 0 38 | 12 41 | 0 53 | 21 52 | 0 58 | 20 18 | 0 4 | 22 5 | 1 1 | 14 9 | 6 35 | 3 12 | 2 54 | 8 50 | | n.a. |
| F 5 | 23 25 | 17 48 | 4 27 | 23 40 | 1 43 | 23 20 | 0 4 | 23 51 | 0 38 | 12 41 | 0 53 | 21 53 | 0 58 | 20 19 | 0 4 | 22 5 | 1 1 | 14 9 | 6 35 | 3 16 | 2 55 | 8 49 | | n.a. |
| S 6 | 23 21 | 15 43 | 3 42 | 23 19 | 1 41 | 23 28 | 0 1 | 23 55 | 0 39 | 12 41 | 0 53 | 21 54 | 0 58 | 20 19 | 0 4 | 22 5 | 1 1 | 14 9 | 6 35 | 3 19 | 2 57 | 8 47 | | n.a. |
| S 7 | 23 16 | 12 37 | 2 42 | 22 56 | 1 37 | 23 34 | 0n 2 | 23 58 | 0 39 | 12 42 | 0 53 | 21 55 | 0 58 | 20 20 | 0 4 | 22 5 | 1 1 | 14 10 | 6 35 | 3 22 | 2 58 | 8 46 | | n.a. |
| M 8 | 23 12 | 8 44 | 1 32 | 22 32 | 1 33 | 23 40 | 0 4 | 24 2 | 0 40 | 12 42 | 0 52 | 21 56 | 0 58 | 20 21 | 0 4 | 22 5 | 1 1 | 14 10 | 6 35 | 3 23 | 2 59 | 8 44 | | n.a. |
| T 9 | 23 6 | 4 22 | 0 17 | 22 6 | 1 29 | 23 45 | 0 7 | 24 5 | 0 41 | 12 42 | 0 52 | 21 57 | 0 58 | 20 21 | 0 4 | 22 6 | 1 1 | 14 10 | 6 35 | 3 23 | 3 0 | 8 42 | | n.a. |
| W10 | 23 1 | 0s10 | 0n59 | 21 40 | 1 24 | 23 49 | 0 9 | 24 8 | 0 41 | 12 43 | 0 52 | 21 58 | 0 58 | 20 22 | 0 4 | 22 6 | 1 1 | 14 10 | 6 35 | 3 23 | 3 2 | 8 41 | | n.a. |
| T 11 | 22 55 | 4 36 | 2 9 | 21 12 | 1 19 | 23 53 | 0 12 | 24 11 | 0 42 | 12 43 | 0 51 | 21 59 | 0 59 | 20 23 | 0 4 | 22 6 | 1 1 | 14 10 | 6 35 | 3 23 | 3 3 | 8 39 | | n.a. |
| F 12 | 22 48 | 8 43 | 3 11 | 20 43 | 1 14 | 23 56 | 0 14 | 24 14 | 0 42 | 12 44 | 0 51 | 22 0 | 0 59 | 20 23 | 0 4 | 22 6 | 1 1 | 14 10 | 6 35 | 3 24 | 3 4 | 8 37 | | n.a. |
| S 13 | 22 41 | 12 18 | 4 1 | 20 13 | 1 8 | 23 58 | 0 16 | 24 16 | 0 43 | 12 44 | 0 51 | 22 0 | 0 59 | 20 24 | 0 4 | 22 6 | 1 1 | 14 11 | 6 35 | 3 25 | 3 6 | 8 36 | | n.a. |
| S 14 | 22 34 | 15 12 | 4 37 | 19 43 | 1 2 | 24 0 | 0 19 | 24 18 | 0 43 | 12 45 | 0 51 | 22 1 | 0 59 | 20 24 | 0 4 | 22 6 | 1 1 | 14 11 | 6 35 | 3 27 | 3 7 | 8 34 | | n.a. |
| M15 | 22 27 | 17 17 | 4 58 | 19 11 | 0 55 | 24 1 | 0 21 | 24 20 | 0 44 | 12 46 | 0 50 | 22 2 | 0 59 | 20 25 | 0 4 | 22 7 | 1 1 | 14 11 | 6 36 | 3 30 | 3 8 | 8 32 | | n.a. |
| T 16 | 22 19 | 18 27 | 5 4 | 18 39 | 0 48 | 24 1 | 0 24 | 24 22 | 0 44 | 12 47 | 0 50 | 22 3 | 0 59 | 20 25 | 0 4 | 22 7 | 1 1 | 14 11 | 6 36 | 3 34 | 3 9 | 8 31 | | n.a. |
| W17 | 22 10 | 18 41 | 4 54 | 18 7 | 0 41 | 24 0 | 0 26 | 24 24 | 0 45 | 12 48 | 0 50 | 22 4 | 0 59 | 20 26 | 0 4 | 22 7 | 1 1 | 14 11 | 6 36 | 3 38 | 3 11 | 8 29 | | n.a. |
| T 18 | 22 1 | 18 1 | 4 31 | 17 34 | 0 34 | 23 59 | 0 28 | 24 26 | 0 45 | 12 49 | 0 50 | 22 5 | 0 59 | 20 27 | 0 4 | 22 7 | 1 1 | 14 11 | 6 36 | 3 42 | 3 12 | 8 27 | | n.a. |
| F 19 | 21 52 | 16 31 | 3 55 | 17 0 | 0 26 | 23 57 | 0 31 | 24 27 | 0 46 | 12 50 | 0 49 | 22 6 | 0 59 | 20 27 | 0 4 | 22 7 | 1 1 | 14 11 | 6 36 | 3 46 | 3 13 | 8 26 | | n.a. |
| S 20 | 21 43 | 14 18 | 3 10 | 16 26 | 0 18 | 23 54 | 0 33 | 24 28 | 0 47 | 12 51 | 0 49 | 22 7 | 0 59 | 20 28 | 0 4 | 22 7 | 1 1 | 14 12 | 6 36 | 3 49 | 3 14 | 8 24 | | n.a. |
| S 21 | 21 33 | 11 30 | 2 16 | 15 52 | 0 10 | 23 51 | 0 35 | 24 29 | 0 47 | 12 52 | 0 49 | 22 8 | 1 0 | 20 28 | 0 4 | 22 8 | 1 1 | 14 12 | 6 36 | 3 52 | 3 16 | 8 22 | | n.a. |
| M22 | 21 22 | 8 15 | 1 16 | 15 18 | 0 1 | 23 46 | 0 37 | 24 30 | 0 48 | 12 53 | 0 49 | 22 9 | 1 0 | 20 29 | 0 4 | 22 8 | 1 1 | 14 12 | 6 36 | 3 53 | 3 17 | 8 21 | | n.a. |
| T 23 | 21 12 | 4 42 | 0 14 | 14 43 | 0s 7 | 23 41 | 0 39 | 24 30 | 0 48 | 12 54 | 0 48 | 22 10 | 1 0 | 20 29 | 0 4 | 22 8 | 1 1 | 14 12 | 6 36 | 3 54 | 3 18 | 8 19 | | n.a. |
| W24 | 21 0 | 0 57 | 0s50 | 14 9 | 0 16 | 23 36 | 0 42 | 24 31 | 0 49 | 12 55 | 0 48 | 22 11 | 1 0 | 20 30 | 0 4 | 22 8 | 1 1 | 14 12 | 6 36 | 3 53 | 3 19 | 8 17 | | n.a. |
| T 25 | 20 49 | 2n51 | 1 52 | 13 34 | 0 25 | 23 29 | 0 44 | 24 31 | 0 49 | 12 57 | 0 48 | 22 12 | 1 0 | 20 30 | 0 4 | 22 8 | 1 1 | 14 12 | 6 36 | 3 53 | 3 21 | 8 16 | | n.a. |
| F 26 | 20 37 | 6 36 | 2 49 | 12 59 | 0 34 | 23 22 | 0 46 | 24 31 | 0 50 | 12 58 | 0 48 | 22 13 | 1 0 | 20 31 | 0 4 | 22 8 | 1 1 | 14 12 | 6 36 | 3 53 | 3 22 | 8 14 | | n.a. |
| S 27 | 20 25 | 10 8 | 3 41 | 12 25 | 0 43 | 23 15 | 0 48 | 24 31 | 0 50 | 13 0 | 0 47 | 22 14 | 1 0 | 20 31 | 0 4 | 22 9 | 1 1 | 14 12 | 6 36 | 3 53 | 3 23 | 8 12 | | n.a. |
| S 28 | 20 13 | 13 19 | 4 23 | 11 51 | 0 52 | 23 6 | 0 50 | 24 30 | 0 51 | 13 1 | 0 47 | 22 15 | 1 0 | 20 32 | 0 4 | 22 9 | 1 1 | 14 12 | 6 36 | 3 53 | 3 25 | 8 11 | | n.a. |
| M29 | 20 0 | 15 56 | 4 53 | 11 17 | 1 2 | 22 57 | 0 52 | 24 30 | 0 51 | 13 3 | 0 47 | 22 16 | 1 0 | 20 32 | 0 4 | 22 9 | 1 1 | 14 12 | 6 36 | 3 55 | 3 26 | 8 9 | | n.a. |
| T 30 | 19 46 | 17 46 | 5 8 | 10 43 | 1 11 | 22 47 | 0 54 | 24 29 | 0 52 | 13 4 | 0 47 | 22 17 | 1 0 | 20 32 | 0 4 | 22 9 | 1 1 | 14 13 | 6 37 | 3 57 | 3 27 | 8 7 | | n.a. |
| W31 | 19n33 | 18n37 | 5s 5 | 10n10 | 1s21 | 22n37 | 0n55 | 24n28 | 0n52 | 13s 6 | 0n46 | 22s17 | 1s 0 | 20n33 | 0s 4 | 22n 9 | 1s 1 | 14n13 | 6s37 | 3n59 | 3n28 | 8s 6 | | n.a. |

Julian Day Number = 1696036.5, Delta T = 03h08m00s
Ecliptic obliquity = 23°42'03, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°01'25, Lahiri = - 4°54'25 Julian Calendar 1 July 70 BCE == Greg. Calendar 29 June 070 BCE

The year -69 astronomical counting style corresponds to year 070 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 70 BCE
# geocentric

## AUGUST 70 BCE (-69) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 25 16 | 4♌36'56 | 13♋41 | 1♍34 | 24♋20 | 6♋ 0 | 6♏34 | 25°R16 | 1♊11 | 18♊14 | 1♊31 | 19°R55 | 21♍17 | 6♓17 | n.a. | T 1 |
| F 2 | 20 29 12 | 5°35'01 | 28°29 | 2°38 | 25°34 | 6°38 | 6°38 | 25♑12 | 1°13 | 18°15 | 1°31 | 19♍48 | 21°14 | 6°23 | n.a. | F 2 |
| S 3 | 20 33 9 | 6°33'07 | 13♌30 | 3°39 | 26°49 | 7°16 | 6°43 | 25° 7 | 1°15 | 18°17 | 1°32 | 19°42 | 21°11 | 6°30 | n.a. | S 3 |
| S 4 | 20 37 5 | 7°31'16 | 28°34 | 4°39 | 28° 3 | 7°54 | 6°48 | 25° 3 | 1°17 | 18°19 | 1°33 | 19°39 | 21° 7 | 6°36 | n.a. | S 4 |
| M 5 | 20 41 2 | 8°29'26 | 13♍32 | 5°35 | 29°17 | 8°32 | 6°53 | 24°58 | 1°19 | 18°20 | 1°34 | 19°D37 | 21° 4 | 6°43 | n.a. | M 5 |
| T 6 | 20 44 58 | 9°27'37 | 28°17 | 6°28 | 0♌32 | 9°10 | 6°59 | 24°54 | 1°21 | 18°22 | 1°34 | 19°37 | 21° 1 | 6°50 | n.a. | T 6 |
| W 7 | 20 48 55 | 10°25'50 | 12♎44 | 7°19 | 1°46 | 9°48 | 7° 4 | 24°50 | 1°22 | 18°23 | 1°35 | 19°39 | 20°58 | 6°56 | n.a. | W 7 |
| T 8 | 20 52 51 | 11°24'05 | 26°50 | 8° 6 | 3° 1 | 10°26 | 7°10 | 24°46 | 1°24 | 18°25 | 1°35 | 19°40 | 20°55 | 7° 3 | n.a. | T 8 |
| F 9 | 20 56 48 | 12°22'21 | 10♏34 | 8°50 | 4°15 | 11° 4 | 7°16 | 24°41 | 1°26 | 18°26 | 1°36 | 19°R41 | 20°51 | 7°10 | n.a. | F 9 |
| S 10 | 21 0 44 | 13°20'39 | 23°57 | 9°30 | 5°30 | 11°42 | 7°22 | 24°37 | 1°27 | 18°28 | 1°37 | 19°40 | 20°48 | 7°16 | n.a. | S 10 |
| S 11 | 21 4 41 | 14°18'59 | 7♐ 2 | 10° 6 | 6°44 | 12°20 | 7°28 | 24°33 | 1°29 | 18°29 | 1°37 | 19°38 | 20°45 | 7°23 | n.a. | S 11 |
| M12 | 21 8 38 | 15°17'20 | 19°50 | 10°38 | 7°59 | 12°57 | 7°34 | 24°29 | 1°30 | 18°30 | 1°38 | 19°34 | 20°42 | 7°30 | n.a. | M12 |
| T 13 | 21 12 34 | 16°15'43 | 2♑24 | 11° 5 | 9°13 | 13°35 | 7°40 | 24°25 | 1°32 | 18°32 | 1°38 | 19°30 | 20°39 | 7°36 | n.a. | T 13 |
| W14 | 21 16 31 | 17°14'08 | 14°45 | 11°28 | 10°28 | 14°13 | 7°47 | 24°21 | 1°33 | 18°33 | 1°39 | 19°24 | 20°36 | 7°43 | n.a. | W14 |
| T 15 | 21 20 27 | 18°12'34 | 26°56 | 11°45 | 11°43 | 14°50 | 7°53 | 24°17 | 1°35 | 18°35 | 1°39 | 19°18 | 20°32 | 7°50 | n.a. | T 15 |
| F 16 | 21 24 24 | 19°11'02 | 8♒59 | 11°57 | 12°57 | 15°28 | 8° 0 | 24°13 | 1°36 | 18°36 | 1°40 | 19°13 | 20°29 | 7°56 | n.a. | F 16 |
| S 17 | 21 28 20 | 20° 9'33 | 20°55 | 12°R 3 | 14°12 | 16° 6 | 8° 7 | 24° 9 | 1°37 | 18°37 | 1°40 | 19°10 | 20°26 | 8° 3 | n.a. | S 17 |
| S 18 | 21 32 17 | 21° 8'05 | 2♓45 | 12° 2 | 15°27 | 16°43 | 8°14 | 24° 5 | 1°39 | 18°38 | 1°41 | 19° 7 | 20°23 | 8°10 | n.a. | S 18 |
| M19 | 21 36 13 | 22° 6'39 | 14°33 | 11°56 | 16°41 | 17°21 | 8°22 | 24° 2 | 1°40 | 18°40 | 1°41 | 19°D 6 | 20°20 | 8°16 | n.a. | M19 |
| T 20 | 21 40 10 | 23° 5'16 | 26°20 | 11°42 | 17°56 | 17°58 | 8°29 | 23°58 | 1°41 | 18°41 | 1°41 | 19° 6 | 20°16 | 8°23 | n.a. | T 20 |
| W21 | 21 44 7 | 24° 3'55 | 8♈ 9 | 11°21 | 19°11 | 18°36 | 8°37 | 23°54 | 1°42 | 18°42 | 1°42 | 19° 7 | 20°13 | 8°30 | n.a. | W21 |
| T 22 | 21 48 3 | 25° 2'36 | 20° 5 | 10°54 | 20°26 | 19°13 | 8°44 | 23°51 | 1°43 | 18°43 | 1°42 | 19° 9 | 20°10 | 8°36 | n.a. | T 22 |
| F 23 | 21 52 0 | 26° 1'19 | 2♉11 | 10°19 | 21°40 | 19°51 | 8°52 | 23°47 | 1°44 | 18°44 | 1°42 | 19°10 | 20° 7 | 8°43 | n.a. | F 23 |
| S 24 | 21 55 56 | 27° 0'04 | 14°30 | 9°38 | 22°55 | 20°28 | 9° 0 | 23°44 | 1°45 | 18°45 | 1°43 | 19°12 | 20° 4 | 8°49 | n.a. | S 24 |
| S 25 | 21 59 53 | 27°58'52 | 27° 9 | 8°50 | 24°10 | 21° 5 | 9° 8 | 23°41 | 1°46 | 18°46 | 1°43 | 19°R12 | 20° 1 | 8°56 | n.a. | S 25 |
| M26 | 22 3 49 | 28°57'43 | 10♊10 | 7°56 | 25°25 | 21°43 | 9°16 | 23°37 | 1°47 | 18°47 | 1°43 | 19°12 | 19°57 | 9° 3 | n.a. | M26 |
| T 27 | 22 7 46 | 29°56'35 | 23°37 | 6°57 | 26°40 | 22°20 | 9°25 | 23°34 | 1°48 | 18°48 | 1°43 | 19°10 | 19°54 | 9° 9 | n.a. | T 27 |
| W28 | 22 11 42 | 0♍55'31 | 7♋32 | 5°54 | 27°55 | 22°57 | 9°33 | 23°31 | 1°48 | 18°49 | 1°43 | 19° 8 | 19°51 | 9°16 | n.a. | W28 |
| T 29 | 22 15 39 | 1°54'28 | 21°54 | 4°48 | 29°10 | 23°34 | 9°42 | 23°28 | 1°49 | 18°50 | 1°44 | 19° 6 | 19°48 | 9°23 | n.a. | T 29 |
| F 30 | 22 19 36 | 2°53'28 | 6♌40 | 3°41 | 0♍25 | 24°11 | 9°50 | 23°25 | 1°50 | 18°51 | 1°44 | 19° 4 | 19°45 | 9°29 | n.a. | F 30 |
| S 31 | 22 23 32 | 3♍52'30 | 21♌43 | 2♍34 | 1♍40 | 24♋49 | 9♏59 | 23♑22 | 1♊50 | 18♊52 | 1♊44 | 19♍ 2 | 19♍42 | 9♓36 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| T 1 | 19n19 | 18n18 | 4s43 | 9n37 | 1s31 | 22n25 | 0n57 | 24n27 | 0n53 | 13s 8 | 0n46 | 22s18 | 1s 0 | 20n33 | 0s 4 | 22n 9 | 1s 1 | 14n13 | 6s37 | 4n 2 | 3n30 | 8s 4 | | | n.a. |
| F 2 | 19 5 | 16 45 | 4 2 | 9 5 | 1 40 | 22 13 | 0 59 | 24 25 | 0 53 | 13 9 | 0 46 | 22 19 | 1 1 | 20 34 | 0 4 | 22 9 | 1 1 | 14 13 | 6 37 | 4 5 | 3 31 | 8 2 | | | n.a. |
| S 3 | 18 50 | 14 2 | 3 3 | 8 34 | 1 50 | 22 1 | 1 1 | 24 24 | 0 54 | 13 11 | 0 46 | 22 20 | 1 1 | 20 34 | 0 4 | 22 10 | 1 1 | 14 13 | 6 37 | 4 7 | 3 32 | 8 1 | | | n.a. |
| S 4 | 18 35 | 10 21 | 1 52 | 8 3 | 2 0 | 21 48 | 1 2 | 24 22 | 0 55 | 13 13 | 0 45 | 22 21 | 1 1 | 20 35 | 0 4 | 22 10 | 1 1 | 14 13 | 6 37 | 4 9 | 3 33 | 7 59 | | | n.a. |
| M 5 | 18 20 | 6 2 | 0 33 | 7 34 | 2 9 | 21 34 | 1 4 | 24 20 | 0 55 | 13 15 | 0 45 | 22 22 | 1 1 | 20 35 | 0 4 | 22 10 | 1 1 | 14 13 | 6 37 | 4 9 | 3 35 | 7 57 | | | n.a. |
| T 6 | 18 5 | 1 24 | 0n47 | 7 5 | 2 19 | 21 19 | 1 5 | 24 18 | 0 56 | 13 17 | 0 45 | 22 23 | 1 1 | 20 35 | 0 4 | 22 10 | 1 1 | 14 13 | 6 37 | 4 9 | 3 36 | 7 56 | | | n.a. |
| W 7 | 17 49 | 3s12 | 2 3 | 6 37 | 2 29 | 21 4 | 1 7 | 24 16 | 0 56 | 13 19 | 0 45 | 22 24 | 1 1 | 20 36 | 0 4 | 22 10 | 1 1 | 14 13 | 6 37 | 4 9 | 3 37 | 7 54 | | | n.a. |
| T 8 | 17 33 | 7 31 | 3 9 | 6 11 | 2 38 | 20 48 | 1 8 | 24 14 | 0 57 | 13 21 | 0 44 | 22 24 | 1 1 | 20 36 | 0 4 | 22 10 | 1 1 | 14 13 | 6 37 | 4 8 | 3 38 | 7 52 | | | n.a. |
| F 9 | 17 17 | 11 19 | 4 2 | 5 46 | 2 47 | 20 32 | 1 10 | 24 11 | 0 57 | 13 23 | 0 44 | 22 25 | 1 1 | 20 36 | 0 4 | 22 10 | 1 1 | 14 13 | 6 37 | 4 8 | 3 40 | 7 51 | | | n.a. |
| S 10 | 17 0 | 14 25 | 4 41 | 5 23 | 2 56 | 20 15 | 1 11 | 24 8 | 0 58 | 13 25 | 0 44 | 22 26 | 1 1 | 20 37 | 0 4 | 22 10 | 1 2 | 14 13 | 6 38 | 4 8 | 3 41 | 7 49 | | | n.a. |
| S 11 | 16 43 | 16 43 | 5 5 | 5 1 | 3 5 | 19 57 | 1 12 | 24 5 | 0 58 | 13 28 | 0 44 | 22 27 | 1 1 | 20 37 | 0 4 | 22 10 | 1 2 | 14 13 | 6 38 | 4 9 | 3 42 | 7 47 | | | n.a. |
| M12 | 16 26 | 18 7 | 5 12 | 4 41 | 3 13 | 19 39 | 1 13 | 24 2 | 0 59 | 13 30 | 0 44 | 22 28 | 1 1 | 20 37 | 0 4 | 22 11 | 1 2 | 14 13 | 6 38 | 4 10 | 3 44 | 7 46 | | | n.a. |
| T 13 | 16 8 | 18 37 | 5 4 | 4 23 | 3 21 | 19 20 | 1 15 | 23 59 | 0 59 | 13 32 | 0 43 | 22 28 | 1 1 | 20 38 | 0 4 | 22 11 | 1 2 | 14 13 | 6 38 | 4 12 | 3 45 | 7 44 | | | n.a. |
| W14 | 15 50 | 18 12 | 4 42 | 4 8 | 3 29 | 19 1 | 1 16 | 23 55 | 1 0 | 13 35 | 0 43 | 22 29 | 1 1 | 20 38 | 0 4 | 22 11 | 1 2 | 14 13 | 6 38 | 4 14 | 3 46 | 7 42 | | | n.a. |
| T 15 | 15 32 | 16 57 | 4 8 | 3 54 | 3 36 | 18 41 | 1 17 | 23 52 | 1 0 | 13 37 | 0 43 | 22 30 | 1 1 | 20 38 | 0 4 | 22 11 | 1 2 | 14 13 | 6 38 | 4 17 | 3 47 | 7 40 | | | n.a. |
| F 16 | 15 14 | 14 57 | 3 23 | 3 44 | 3 42 | 18 21 | 1 18 | 23 48 | 1 1 | 13 39 | 0 43 | 22 31 | 1 1 | 20 39 | 0 4 | 22 11 | 1 2 | 14 13 | 6 38 | 4 19 | 3 49 | 7 39 | | | n.a. |
| S 17 | 14 55 | 12 20 | 2 29 | 3 36 | 3 48 | 18 0 | 1 19 | 23 44 | 1 1 | 13 42 | 0 42 | 22 31 | 1 1 | 20 39 | 0 4 | 22 11 | 1 2 | 14 13 | 6 38 | 4 20 | 3 50 | 7 37 | | | n.a. |
| S 18 | 14 37 | 9 14 | 1 29 | 3 32 | 3 53 | 17 39 | 1 19 | 23 40 | 1 2 | 13 44 | 0 42 | 22 32 | 1 1 | 20 39 | 0 4 | 22 11 | 1 2 | 14 13 | 6 38 | 4 21 | 3 51 | 7 35 | | | n.a. |
| M19 | 14 17 | 5 46 | 0 25 | 3 31 | 3 57 | 17 17 | 1 20 | 23 36 | 1 2 | 13 47 | 0 42 | 22 33 | 1 1 | 20 39 | 0 4 | 22 11 | 1 2 | 14 13 | 6 38 | 4 22 | 3 52 | 7 34 | | | n.a. |
| T 20 | 13 58 | 2 5 | 0s40 | 3 34 | 4 0 | 16 54 | 1 21 | 23 31 | 1 3 | 13 50 | 0 42 | 22 33 | 1 1 | 20 40 | 0 4 | 22 11 | 1 2 | 14 13 | 6 39 | 4 22 | 3 54 | 7 32 | | | n.a. |
| W21 | 13 39 | 1n41 | 1 43 | 3 40 | 4 1 | 16 31 | 1 22 | 23 26 | 1 3 | 13 52 | 0 42 | 22 34 | 1 1 | 20 40 | 0 4 | 22 11 | 1 2 | 14 13 | 6 39 | 4 21 | 3 55 | 7 30 | | | n.a. |
| T 22 | 13 19 | 5 25 | 2 43 | 3 50 | 4 1 | 16 8 | 1 22 | 23 22 | 1 4 | 13 55 | 0 41 | 22 35 | 1 1 | 20 40 | 0 4 | 22 11 | 1 2 | 14 13 | 6 39 | 4 21 | 3 56 | 7 29 | | | n.a. |
| F 23 | 12 59 | 8 59 | 3 36 | 4 5 | 4 0 | 15 44 | 1 23 | 23 17 | 1 4 | 13 58 | 0 41 | 22 35 | 1 1 | 20 40 | 0 4 | 22 11 | 1 2 | 14 13 | 6 39 | 4 20 | 3 57 | 7 27 | | | n.a. |
| S 24 | 12 39 | 12 13 | 4 20 | 4 23 | 3 57 | 15 20 | 1 23 | 23 12 | 1 5 | 14 0 | 0 41 | 22 36 | 1 2 | 20 40 | 0 4 | 22 12 | 1 2 | 14 13 | 6 39 | 4 19 | 3 59 | 7 25 | | | n.a. |
| S 25 | 12 18 | 14 59 | 4 53 | 4 46 | 3 52 | 14 55 | 1 24 | 23 6 | 1 6 | 14 3 | 0 41 | 22 37 | 1 2 | 20 41 | 0 4 | 22 12 | 1 2 | 14 13 | 6 39 | 4 19 | 4 0 | 7 23 | | | n.a. |
| M26 | 11 58 | 17 4 | 5 12 | 5 12 | 3 45 | 14 30 | 1 24 | 23 1 | 1 6 | 14 6 | 0 41 | 22 37 | 1 2 | 20 41 | 0 4 | 22 12 | 1 2 | 14 13 | 6 39 | 4 19 | 4 1 | 7 22 | | | n.a. |
| T 27 | 11 37 | 18 18 | 5 15 | 5 43 | 3 36 | 14 5 | 1 24 | 22 55 | 1 7 | 14 9 | 0 40 | 22 38 | 1 2 | 20 41 | 0 4 | 22 12 | 1 2 | 14 13 | 6 39 | 4 20 | 4 2 | 7 20 | | | n.a. |
| W28 | 11 16 | 18 29 | 5 0 | 6 16 | 3 26 | 13 39 | 1 24 | 22 50 | 1 7 | 14 12 | 0 40 | 22 38 | 1 2 | 20 41 | 0 4 | 22 12 | 1 2 | 14 13 | 6 39 | 4 21 | 4 4 | 7 18 | | | n.a. |
| T 29 | 10 55 | 17 31 | 4 26 | 6 52 | 3 13 | 13 13 | 1 25 | 22 44 | 1 8 | 14 15 | 0 40 | 22 39 | 1 2 | 20 41 | 0 4 | 22 12 | 1 2 | 14 13 | 6 39 | 4 21 | 4 5 | 7 17 | | | n.a. |
| F 30 | 10 33 | 15 22 | 3 34 | 7 30 | 2 58 | 12 46 | 1 25 | 22 38 | 1 8 | 14 18 | 0 40 | 22 39 | 1 2 | 20 41 | 0 4 | 22 12 | 1 2 | 14 12 | 6 40 | 4 22 | 4 6 | 7 15 | | | n.a. |
| S 31 | 10n12 | 12n 7 | 2s26 | 8n 9 | 2s42 | 12n19 | 1n25 | 22n31 | 1n 9 | 14s21 | 0n39 | 22s40 | 1s 2 | 20n42 | 0s 4 | 22n12 | 1s 2 | 14n12 | 6s40 | 4n23 | 4n 7 | 7s13 | | | n.a. |

Julian Day Number = 1696067.5, Delta T = 03h07m59s
Ecliptic obliquity = 23°42'03, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°01'21, Lahiri = - 4°54'21 Julian Calendar 1 Aug. 70 BCE == Greg. Calendar 30 July 070 BCE

The year -69 astronomical counting style corresponds to year 070 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 70 BCE
# geocentric

## SEPTEMBER 70 BCE (-69) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 22 27 29 | 4♍51'34 | 6♍55 | 1°R29 | 2♍55 | 25♋26 | 10♏ 8 | 23°R19 | 1♊51 | 18♊53 | 1♊44 | 19°R 1 | 19♍38 | 9♓43 | n.a. | S 1 |
| M 2 | 22 31 25 | 5°50'41 | 22° 6 | 0♍29 | 4°10 | 26° 3 | 10°17 | 23♉17 | 1°51 | 18°53 | 1°44 | 19°D 1 | 19°35 | 9°49 | n.a. | M 2 |
| T 3 | 22 35 22 | 6°49'49 | 7♎ 7 | 29♌33 | 5°25 | 26°40 | 10°26 | 23°14 | 1°52 | 18°54 | 1°44 | 19♍ 2 | 19°32 | 9°56 | n.a. | T 3 |
| W 4 | 22 39 18 | 7°49'00 | 21°51 | 28°45 | 6°40 | 27°17 | 10°35 | 23°11 | 1°52 | 18°55 | 1°44 | 19° 2 | 19°29 | 10° 3 | n.a. | W 4 |
| T 5 | 22 43 15 | 8°48'12 | 6♏11 | 28° 6 | 7°55 | 27°54 | 10°45 | 23° 9 | 1°52 | 18°56 | 1°R44 | 19° 3 | 19°26 | 10° 9 | n.a. | T 5 |
| F 6 | 22 47 11 | 9°47'26 | 20° 5 | 27°35 | 9°10 | 28°31 | 10°54 | 23° 6 | 1°53 | 18°56 | 1°44 | 19° 4 | 19°22 | 10°16 | n.a. | F 6 |
| S 7 | 22 51 8 | 10°46'42 | 3♐34 | 27°15 | 10°25 | 29° 8 | 11° 4 | 23° 4 | 1°53 | 18°57 | 1°44 | 19° 4 | 19°19 | 10°23 | n.a. | S 7 |
| S 8 | 22 55 4 | 11°46'00 | 16°38 | 27°D 5 | 11°40 | 29°44 | 11°14 | 23° 2 | 1°53 | 18°58 | 1°44 | 19°R 5 | 19°16 | 10°29 | n.a. | S 8 |
| M 9 | 22 59 1 | 12°45'20 | 29°22 | 27° 6 | 12°55 | 0♌21 | 11°24 | 23° 0 | 1°53 | 18°58 | 1°44 | 19° 4 | 19°13 | 10°36 | n.a. | M 9 |
| T 10 | 23 2 58 | 13°44'42 | 11♑48 | 27°17 | 14°11 | 0°58 | 11°34 | 22°58 | 1°53 | 18°59 | 1°44 | 19° 4 | 19°10 | 10°42 | n.a. | T 10 |
| W11 | 23 6 54 | 14°44'05 | 23°59 | 27°39 | 15°26 | 1°35 | 11°44 | 22°56 | 1°R53 | 18°59 | 1°44 | 19° 3 | 19° 7 | 10°49 | n.a. | W11 |
| T 12 | 23 10 51 | 15°43'31 | 6♒ 1 | 28°11 | 16°41 | 2°11 | 11°54 | 22°54 | 1°53 | 19° 0 | 1°43 | 19° 3 | 19° 3 | 10°56 | n.a. | T 12 |
| F 13 | 23 14 47 | 16°42'59 | 17°55 | 28°52 | 17°56 | 2°48 | 12° 4 | 22°52 | 1°53 | 19° 0 | 1°43 | 19° 2 | 19° 0 | 11° 2 | n.a. | F 13 |
| S 14 | 23 18 44 | 17°42'28 | 29°44 | 29°41 | 19°11 | 3°25 | 12°14 | 22°51 | 1°53 | 19° 0 | 1°43 | 19° 2 | 18°57 | 11° 9 | n.a. | S 14 |
| S 15 | 23 22 40 | 18°41'59 | 11♓32 | 0♍38 | 20°26 | 4° 1 | 12°25 | 22°49 | 1°53 | 19° 1 | 1°43 | 19° 2 | 18°54 | 11°16 | n.a. | S 15 |
| M16 | 23 26 37 | 19°41'33 | 23°20 | 1°42 | 21°42 | 4°38 | 12°35 | 22°48 | 1°52 | 19° 1 | 1°43 | 19° 2 | 18°51 | 11°22 | n.a. | M16 |
| T 17 | 23 30 33 | 20°41'09 | 5♈12 | 2°53 | 22°57 | 5°14 | 12°46 | 22°46 | 1°52 | 19° 1 | 1°42 | 19° 2 | 18°47 | 11°29 | n.a. | T 17 |
| W18 | 23 34 30 | 21°40'47 | 17° 7 | 4° 8 | 24°12 | 5°51 | 12°57 | 22°45 | 1°52 | 19° 2 | 1°42 | 19° 2 | 18°44 | 11°36 | n.a. | W18 |
| T 19 | 23 38 26 | 22°40'27 | 29°11 | 5°29 | 25°27 | 6°27 | 13° 8 | 22°44 | 1°51 | 19° 2 | 1°42 | 19° 1 | 18°41 | 11°42 | n.a. | T 19 |
| F 20 | 23 42 23 | 23°40'09 | 11♉23 | 6°53 | 26°42 | 7° 4 | 13°19 | 22°43 | 1°51 | 19° 2 | 1°41 | 19° 1 | 18°38 | 11°49 | n.a. | F 20 |
| S 21 | 23 46 20 | 24°39'54 | 23°49 | 8°21 | 27°58 | 7°40 | 13°30 | 22°42 | 1°50 | 19° 2 | 1°41 | 19° 0 | 18°35 | 11°56 | n.a. | S 21 |
| S 22 | 23 50 16 | 25°39'41 | 6♊29 | 9°51 | 29°13 | 8°16 | 13°41 | 22°41 | 1°50 | 19° 2 | 1°41 | 19° 0 | 18°32 | 12° 2 | n.a. | S 22 |
| M23 | 23 54 13 | 26°39'30 | 19°28 | 11°24 | 0♎28 | 8°53 | 13°52 | 22°40 | 1°49 | 19° 2 | 1°40 | 18°59 | 18°28 | 12° 9 | n.a. | M23 |
| T 24 | 23 58 9 | 27°39'22 | 2♋48 | 12°59 | 1°43 | 9°29 | 14° 3 | 22°39 | 1°48 | 19° 2 | 1°40 | 18°D59 | 18°25 | 12°15 | n.a. | T 24 |
| W25 | 0 2 6 | 28°39'16 | 16°32 | 14°35 | 2°59 | 10° 5 | 14°14 | 22°39 | 1°48 | 19°R 2 | 1°39 | 19° 0 | 18°22 | 12°22 | n.a. | W25 |
| T 26 | 0 6 2 | 29°39'13 | 0♌39 | 16°13 | 4°14 | 10°41 | 14°26 | 22°38 | 1°47 | 19° 2 | 1°39 | 19° 0 | 18°19 | 12°29 | n.a. | T 26 |
| F 27 | 0 9 59 | 0♎39'12 | 15° 9 | 17°51 | 5°29 | 11°18 | 14°37 | 22°38 | 1°46 | 19° 2 | 1°39 | 19° 1 | 18°16 | 12°35 | n.a. | F 27 |
| S 28 | 0 13 55 | 1°39'13 | 29°58 | 19°31 | 6°44 | 11°54 | 14°49 | 22°38 | 1°45 | 19° 2 | 1°38 | 19° 2 | 18°13 | 12°42 | n.a. | S 28 |
| S 29 | 0 17 52 | 2°39'16 | 15♍ 1 | 21°10 | 8° 0 | 12°30 | 15° 1 | 22°37 | 1°44 | 19° 2 | 1°37 | 19°R 3 | 18° 9 | 12°49 | n.a. | S 29 |
| M30 | 0 21 49 | 3♎39'21 | 0♎ 9 | 22♍50 | 9♎15 | 13♌ 6 | 15♏12 | 22°D37 | 1♊43 | 19♊ 2 | 1♊37 | 19♍ 2 | 18♍ 6 | 12♓55 | n.a. | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 9n50 | 8n 2 | 1s 7 | 8n49 | 2s24 | 11n52 | 1n25 | 22n25 | 1n 9 | 14s24 | 0n39 | 22s40 | 1s 2 | 20n42 | 0s 4 | 22n12 | 1s 2 | 14n12 | 6s40 | 4n23 | 4n 9 | 7s11 | | n.a. |
| M 2 | 9 28 | 3 26 | 0n17 | 9 28 | 2 5 | 11 24 | 1 25 | 22 19 | 1 10 | 14 27 | 0 39 | 22 41 | 1 2 | 20 42 | 0 4 | 22 12 | 1 2 | 14 12 | 6 40 | 4 23 | 4 10 | 7 10 | | n.a. |
| T 3 | 9 6 | 1s21 | 1 39 | 10 6 | 1 46 | 10 56 | 1 24 | 22 12 | 1 10 | 14 30 | 0 39 | 22 41 | 1 2 | 20 42 | 0 4 | 22 12 | 1 2 | 14 12 | 6 40 | 4 23 | 4 11 | 7 8 | | n.a. |
| W 4 | 8 44 | 5 56 | 2 52 | 10 42 | 1 26 | 10 28 | 1 24 | 22 5 | 1 11 | 14 33 | 0 39 | 22 42 | 1 2 | 20 42 | 0 4 | 22 12 | 1 2 | 14 12 | 6 40 | 4 23 | 4 13 | 7 6 | | n.a. |
| T 5 | 8 21 | 10 4 | 3 53 | 11 14 | 1 6 | 9 59 | 1 24 | 21 58 | 1 11 | 14 36 | 0 39 | 22 42 | 1 2 | 20 42 | 0 4 | 22 12 | 1 2 | 14 12 | 6 40 | 4 23 | 4 14 | 7 4 | | n.a. |
| F 6 | 7 59 | 13 29 | 4 38 | 11 44 | 0 46 | 9 30 | 1 23 | 21 51 | 1 12 | 14 39 | 0 38 | 22 43 | 1 2 | 20 42 | 0 4 | 22 12 | 1 2 | 14 12 | 6 40 | 4 22 | 4 15 | 7 3 | | n.a. |
| S 7 | 7 36 | 16 5 | 5 6 | 12 9 | 0 26 | 9 1 | 1 23 | 21 44 | 1 12 | 14 42 | 0 38 | 22 43 | 1 2 | 20 42 | 0 4 | 22 12 | 1 2 | 14 12 | 6 40 | 4 22 | 4 16 | 7 1 | | n.a. |
| S 8 | 7 14 | 17 45 | 5 18 | 12 30 | 0 8 | 8 32 | 1 23 | 21 37 | 1 13 | 14 46 | 0 38 | 22 43 | 1 2 | 20 42 | 0 4 | 22 12 | 1 2 | 14 12 | 6 40 | 4 22 | 4 18 | 6 59 | | n.a. |
| M 9 | 6 51 | 18 29 | 5 13 | 12 46 | 0n10 | 8 2 | 1 22 | 21 29 | 1 13 | 14 49 | 0 38 | 22 44 | 1 2 | 20 42 | 0 4 | 22 12 | 1 2 | 14 12 | 6 41 | 4 22 | 4 19 | 6 58 | | n.a. |
| T 10 | 6 28 | 18 18 | 4 53 | 12 57 | 0 26 | 7 33 | 1 21 | 21 22 | 1 14 | 14 52 | 0 38 | 22 44 | 1 2 | 20 42 | 0 4 | 22 12 | 1 2 | 14 11 | 6 41 | 4 22 | 4 20 | 6 56 | | n.a. |
| W11 | 6 5 | 17 16 | 4 21 | 13 4 | 0 41 | 7 3 | 1 21 | 21 14 | 1 14 | 14 56 | 0 37 | 22 44 | 1 2 | 20 42 | 0 4 | 22 12 | 1 2 | 14 11 | 6 41 | 4 23 | 4 21 | 6 54 | | n.a. |
| T 12 | 5 41 | 15 28 | 3 37 | 13 6 | 0 55 | 6 32 | 1 20 | 21 6 | 1 15 | 14 59 | 0 37 | 22 45 | 1 2 | 20 42 | 0 4 | 22 12 | 1 2 | 14 11 | 6 41 | 4 23 | 4 23 | 6 52 | | n.a. |
| F 13 | 5 18 | 13 1 | 2 45 | 13 3 | 1 8 | 6 2 | 1 19 | 20 58 | 1 15 | 15 2 | 0 37 | 22 45 | 1 2 | 20 42 | 0 4 | 22 12 | 1 2 | 14 11 | 6 41 | 4 23 | 4 24 | 6 51 | | n.a. |
| S 14 | 4 55 | 10 3 | 1 45 | 12 56 | 1 18 | 5 31 | 1 18 | 20 50 | 1 16 | 15 6 | 0 37 | 22 45 | 1 2 | 20 42 | 0 4 | 22 12 | 1 2 | 14 11 | 6 41 | 4 23 | 4 25 | 6 49 | | n.a. |
| S 15 | 4 31 | 6 40 | 0 42 | 12 44 | 1 28 | 5 1 | 1 17 | 20 42 | 1 16 | 15 9 | 0 37 | 22 46 | 1 2 | 20 42 | 0 4 | 22 12 | 1 2 | 14 11 | 6 41 | 4 23 | 4 26 | 6 47 | | n.a. |
| M16 | 4 7 | 3 2 | 0s24 | 12 29 | 1 36 | 4 30 | 1 16 | 20 33 | 1 17 | 15 12 | 0 37 | 22 46 | 1 2 | 20 42 | 0 4 | 22 12 | 1 2 | 14 11 | 6 41 | 4 23 | 4 28 | 6 45 | | n.a. |
| T 17 | 3 44 | 0n44 | 1 29 | 12 10 | 1 43 | 3 59 | 1 15 | 20 25 | 1 17 | 15 16 | 0 36 | 22 46 | 1 2 | 20 42 | 0 4 | 22 12 | 1 2 | 14 10 | 6 41 | 4 23 | 4 29 | 6 44 | | n.a. |
| W18 | 3 20 | 4 29 | 2 30 | 11 47 | 1 49 | 3 28 | 1 14 | 20 16 | 1 18 | 15 19 | 0 36 | 22 46 | 1 2 | 20 42 | 0 4 | 22 12 | 1 2 | 14 10 | 6 41 | 4 23 | 4 30 | 6 42 | | n.a. |
| T 19 | 2 56 | 8 6 | 3 25 | 11 21 | 1 53 | 2 56 | 1 13 | 20 8 | 1 18 | 15 23 | 0 36 | 22 46 | 1 2 | 20 42 | 0 4 | 22 12 | 1 2 | 14 10 | 6 42 | 4 23 | 4 31 | 6 40 | | n.a. |
| F 20 | 2 32 | 11 25 | 4 12 | 10 53 | 1 57 | 2 25 | 1 12 | 19 59 | 1 19 | 15 26 | 0 36 | 22 47 | 1 2 | 20 42 | 0 4 | 22 12 | 1 2 | 14 10 | 6 42 | 4 24 | 4 33 | 6 38 | | n.a. |
| S 21 | 2 9 | 14 17 | 4 48 | 10 22 | 1 59 | 1 54 | 1 11 | 19 50 | 1 19 | 15 30 | 0 36 | 22 47 | 1 2 | 20 42 | 0 4 | 22 12 | 1 2 | 14 10 | 6 42 | 4 24 | 4 34 | 6 37 | | n.a. |
| S 22 | 1 45 | 16 32 | 5 10 | 9 49 | 2 0 | 1 22 | 1 9 | 19 41 | 1 20 | 15 33 | 0 35 | 22 47 | 1 2 | 20 42 | 0 4 | 22 12 | 1 2 | 14 10 | 6 42 | 4 24 | 4 35 | 6 35 | | n.a. |
| M23 | 1 21 | 18 0 | 5 18 | 9 14 | 2 1 | 0 51 | 1 8 | 19 32 | 1 20 | 15 37 | 0 35 | 22 47 | 1 2 | 20 41 | 0 4 | 22 12 | 1 3 | 14 10 | 6 42 | 4 24 | 4 36 | 6 33 | | n.a. |
| T 24 | 0 57 | 18 32 | 5 9 | 8 37 | 2 1 | 0 19 | 1 6 | 19 22 | 1 21 | 15 40 | 0 35 | 22 47 | 1 1 | 20 41 | 0 4 | 22 12 | 1 3 | 14 9 | 6 42 | 4 24 | 4 38 | 6 31 | | n.a. |
| W25 | 0 32 | 18 0 | 4 42 | 7 58 | 2 0 | 0s12 | 1 5 | 19 13 | 1 22 | 15 44 | 0 35 | 22 47 | 1 1 | 20 41 | 0 4 | 22 12 | 1 3 | 14 9 | 6 42 | 4 24 | 4 39 | 6 30 | | n.a. |
| T 26 | 0 8 | 16 22 | 3 58 | 7 18 | 1 58 | 0 44 | 1 3 | 19 4 | 1 22 | 15 47 | 0 35 | 22 47 | 1 1 | 20 41 | 0 4 | 22 12 | 1 3 | 14 9 | 6 42 | 4 24 | 4 40 | 6 28 | | n.a. |
| F 27 | 0s16 | 13 39 | 2 57 | 6 37 | 1 56 | 1 16 | 1 2 | 18 54 | 1 23 | 15 51 | 0 35 | 22 47 | 1 1 | 20 41 | 0 4 | 22 12 | 1 3 | 14 9 | 6 42 | 4 23 | 4 41 | 6 26 | | n.a. |
| S 28 | 0 40 | 9 59 | 1 44 | 5 56 | 1 53 | 1 47 | 1 0 | 18 44 | 1 23 | 15 55 | 0 35 | 22 47 | 1 1 | 20 41 | 0 4 | 22 12 | 1 3 | 14 9 | 6 42 | 4 23 | 4 43 | 6 24 | | n.a. |
| S 29 | 1 4 | 5 37 | 0 22 | 5 13 | 1 50 | 2 19 | 0 58 | 18 35 | 1 24 | 15 58 | 0 34 | 22 47 | 1 1 | 20 40 | 0 4 | 22 12 | 1 3 | 14 8 | 6 42 | 4 23 | 4 44 | 6 23 | | n.a. |
| M30 | 1s28 | 0n52 | 1n 1 | 4n30 | 1n46 | 2s50 | 0n57 | 18n25 | 1n24 | 16s 2 | 0n34 | 22s47 | 1s 1 | 20n40 | 0s 4 | 22n12 | 1s 3 | 14n 8 | 6s43 | 4n23 | 4n45 | 6s21 | | n.a. |

Julian Day Number = 1696098.5, Delta T = 03h07m58s
Ecliptic obliquity = 23°42'04, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°01'17, Lahiri = - 4°54'17 Julian Calendar 1 Sept. 70 BCE == Greg. Calendar 30 Aug. 070 BCE

The year -69 astronomical counting style corresponds to year 070 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 70 BCE
# geocentric

## OCTOBER 70 BCE (-69) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 25 45 | 4♎39'28 | 15♎13 | 24♍30 | 10♎30 | 13♌42 | 15♏24 | 22♑37 | 1°R42 | 19°R 2 | 1°R36 | 19°R 1 | 18♍ 3 | 13♓ 2 | n.a. | T 1 |
| W 2 | 0 29 42 | 5°39'37 | 0♏ 4 | 26°10 | 11°46 | 14°18 | 15°36 | 22°38 | 1♊41 | 19♊ 2 | 1♊36 | 19♍ 0 | 18° 0 | 13° 9 | n.a. | W 2 |
| T 3 | 0 33 38 | 6°39'48 | 14°35 | 27°50 | 13° 1 | 14°53 | 15°48 | 22°38 | 1°40 | 19° 1 | 1°35 | 18°57 | 17°57 | 13°15 | n.a. | T 3 |
| F 4 | 0 37 35 | 7°40'01 | 28°41 | 29°30 | 14°16 | 15°29 | 16° 0 | 22°38 | 1°39 | 19° 1 | 1°35 | 18°55 | 17°53 | 13°22 | n.a. | F 4 |
| S 5 | 0 41 31 | 8°40'15 | 12♐19 | 1♎10 | 15°32 | 16° 5 | 16°12 | 22°39 | 1°38 | 19° 1 | 1°34 | 18°53 | 17°50 | 13°29 | n.a. | S 5 |
| S 6 | 0 45 28 | 9°40'31 | 25°30 | 2°50 | 16°47 | 16°41 | 16°24 | 22°39 | 1°36 | 19° 0 | 1°33 | 18°51 | 17°47 | 13°35 | n.a. | S 6 |
| M 7 | 0 49 24 | 10°40'49 | 8♑16 | 4°29 | 18° 2 | 17°16 | 16°37 | 22°40 | 1°35 | 19° 0 | 1°33 | 18°D50 | 17°44 | 13°42 | n.a. | M 7 |
| T 8 | 0 53 21 | 11°41'08 | 20°41 | 6° 8 | 19°17 | 17°52 | 16°49 | 22°41 | 1°34 | 19° 0 | 1°32 | 18°51 | 17°41 | 13°49 | n.a. | T 8 |
| W 9 | 0 57 18 | 12°41'29 | 2♒49 | 7°46 | 20°33 | 18°28 | 17° 1 | 22°42 | 1°32 | 18°59 | 1°31 | 18°52 | 17°38 | 13°55 | n.a. | W 9 |
| T 10 | 1 1 14 | 13°41'51 | 14°46 | 9°25 | 21°48 | 19° 3 | 17°14 | 22°43 | 1°31 | 18°59 | 1°30 | 18°53 | 17°34 | 14° 2 | n.a. | T 10 |
| F 11 | 1 5 11 | 14°42'15 | 26°36 | 11° 3 | 23° 3 | 19°39 | 17°26 | 22°44 | 1°29 | 18°58 | 1°30 | 18°55 | 17°31 | 14° 8 | n.a. | F 11 |
| S 12 | 1 9 7 | 15°42'40 | 8♓23 | 12°40 | 24°19 | 20°14 | 17°39 | 22°45 | 1°28 | 18°58 | 1°29 | 18°57 | 17°28 | 14°15 | n.a. | S 12 |
| S 13 | 1 13 4 | 16°43'07 | 20°11 | 14°17 | 25°34 | 20°49 | 17°51 | 22°46 | 1°26 | 18°57 | 1°28 | 18°R57 | 17°25 | 14°22 | n.a. | S 13 |
| M14 | 1 17 0 | 17°43'35 | 2♈ 3 | 15°54 | 26°49 | 21°25 | 18° 4 | 22°48 | 1°25 | 18°56 | 1°27 | 18°56 | 17°22 | 14°28 | n.a. | M14 |
| T 15 | 1 20 57 | 18°44'05 | 14° 1 | 17°31 | 28° 5 | 22° 0 | 18°17 | 22°49 | 1°23 | 18°56 | 1°26 | 18°54 | 17°19 | 14°35 | n.a. | T 15 |
| W16 | 1 24 53 | 19°44'37 | 26° 8 | 19° 7 | 29°20 | 22°35 | 18°30 | 22°51 | 1°21 | 18°55 | 1°26 | 18°50 | 17°15 | 14°42 | n.a. | W16 |
| T 17 | 1 28 50 | 20°45'11 | 8♉25 | 20°43 | 0♏35 | 23°10 | 18°42 | 22°52 | 1°19 | 18°54 | 1°25 | 18°45 | 17°12 | 14°48 | n.a. | T 17 |
| F 18 | 1 32 46 | 21°45'46 | 20°52 | 22°19 | 1°50 | 23°45 | 18°55 | 22°54 | 1°18 | 18°54 | 1°24 | 18°39 | 17° 9 | 14°55 | n.a. | F 18 |
| S 19 | 1 36 43 | 22°46'23 | 3♊32 | 23°54 | 3° 6 | 24°20 | 19° 8 | 22°56 | 1°16 | 18°53 | 1°23 | 18°33 | 17° 6 | 15° 2 | n.a. | S 19 |
| S 20 | 1 40 40 | 23°47'02 | 16°24 | 25°29 | 4°21 | 24°55 | 19°21 | 22°58 | 1°14 | 18°52 | 1°22 | 18°28 | 17° 3 | 15° 8 | n.a. | S 20 |
| M21 | 1 44 36 | 24°47'42 | 29°30 | 27° 4 | 5°36 | 25°30 | 19°34 | 23° 0 | 1°12 | 18°51 | 1°21 | 18°23 | 16°59 | 15°15 | n.a. | M21 |
| T 22 | 1 48 33 | 25°48'25 | 12♋51 | 28°39 | 6°52 | 26° 5 | 19°47 | 23° 2 | 1°10 | 18°50 | 1°20 | 18°21 | 16°56 | 15°22 | n.a. | T 22 |
| W23 | 1 52 29 | 26°49'09 | 26°28 | 0♏13 | 8° 7 | 26°40 | 20° 0 | 23° 5 | 1° 8 | 18°50 | 1°19 | 18°D20 | 16°53 | 15°28 | n.a. | W23 |
| T 24 | 1 56 26 | 27°49'54 | 10♌22 | 1°47 | 9°22 | 27°15 | 20°13 | 23° 7 | 1° 6 | 18°49 | 1°18 | 18°20 | 16°50 | 15°35 | n.a. | T 24 |
| F 25 | 2 0 22 | 28°50'42 | 24°33 | 3°21 | 10°37 | 27°49 | 20°27 | 23°10 | 1° 4 | 18°48 | 1°17 | 18°22 | 16°47 | 15°41 | n.a. | F 25 |
| S 26 | 2 4 19 | 29°51'31 | 9♍ 0 | 4°55 | 11°53 | 28°24 | 20°40 | 23°12 | 1° 2 | 18°47 | 1°16 | 18°23 | 16°44 | 15°48 | n.a. | S 26 |
| S 27 | 2 8 15 | 0♏52'22 | 23°41 | 6°29 | 13° 8 | 28°59 | 20°53 | 23°15 | 1° 0 | 18°46 | 1°15 | 18°R23 | 16°40 | 15°55 | n.a. | S 27 |
| M28 | 2 12 12 | 1°53'14 | 8♎29 | 8° 2 | 14°23 | 29°33 | 21° 6 | 23°18 | 0°58 | 18°45 | 1°14 | 18°22 | 16°37 | 16° 1 | n.a. | M28 |
| T 29 | 2 16 9 | 2°54'08 | 23°18 | 9°36 | 15°38 | 0♍ 8 | 21°20 | 23°21 | 0°56 | 18°44 | 1°13 | 18°18 | 16°34 | 16° 8 | n.a. | T 29 |
| W30 | 2 20 5 | 3°55'03 | 8♏ 1 | 11° 9 | 16°54 | 0°42 | 21°33 | 23°24 | 0°53 | 18°43 | 1°12 | 18°12 | 16°31 | 16°15 | n.a. | W30 |
| T 31 | 2 24 2 | 4♏56'00 | 22♏30 | 12♏42 | 18♏ 9 | 1♍16 | 21♏47 | 23♑27 | 0♊51 | 18♊41 | 1♊11 | 18♍ 4 | 16♍28 | 16♓21 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| T 1 | 1s52 | 3s54 | 2n20 | 3n46 | 1n42 | 3s22 | 0n55 | 18n15 | 1n25 | 16s 5 | 0n34 | 22s47 | 1s 1 | 20n40 | 0s 4 | 22n12 | 1s 3 | 14n 8 | 6s43 | 4n23 | 4n46 | 6s19 | | | n.a. |
| W 2 | 2 16 | 8 22 | 3 28 | 3 2 | 1 37 | 3 53 | 0 53 | 18 5 | 1 25 | 16 9 | 0 34 | 22 47 | 1 1 | 20 40 | 0 4 | 22 12 | 1 3 | 14 8 | 6 43 | 4 24 | 4 48 | 6 17 | | | n.a. |
| T 3 | 2 40 | 12 14 | 4 21 | 2 17 | 1 33 | 4 24 | 0 51 | 17 55 | 1 26 | 16 13 | 0 34 | 22 47 | 1 1 | 20 40 | 0 4 | 22 12 | 1 3 | 14 8 | 6 43 | 4 25 | 4 49 | 6 16 | | | n.a. |
| F 4 | 3 4 | 15 16 | 4 57 | 1 32 | 1 28 | 4 56 | 0 49 | 17 44 | 1 26 | 16 16 | 0 34 | 22 47 | 1 1 | 20 39 | 0 4 | 22 12 | 1 3 | 14 7 | 6 43 | 4 26 | 4 50 | 6 14 | | | n.a. |
| S 5 | 3 28 | 17 20 | 5 14 | 0 47 | 1 22 | 5 27 | 0 47 | 17 34 | 1 27 | 16 20 | 0 33 | 22 47 | 1 1 | 20 39 | 0 4 | 22 12 | 1 3 | 14 7 | 6 43 | 4 27 | 4 51 | 6 12 | | | n.a. |
| S 6 | 3 52 | 18 24 | 5 14 | 0 2 | 1 17 | 5 58 | 0 45 | 17 24 | 1 27 | 16 24 | 0 33 | 22 47 | 1 1 | 20 39 | 0 4 | 22 12 | 1 3 | 14 7 | 6 43 | 4 28 | 4 53 | 6 10 | | | n.a. |
| M 7 | 4 16 | 18 29 | 4 58 | 0s43 | 1 11 | 6 29 | 0 43 | 17 13 | 1 28 | 16 27 | 0 33 | 22 47 | 1 1 | 20 39 | 0 4 | 22 12 | 1 3 | 14 7 | 6 43 | 4 28 | 4 54 | 6 9 | | | n.a. |
| T 8 | 4 40 | 17 40 | 4 29 | 1 28 | 1 5 | 7 0 | 0 41 | 17 3 | 1 28 | 16 31 | 0 33 | 22 47 | 1 1 | 20 38 | 0 4 | 22 12 | 1 3 | 14 7 | 6 43 | 4 28 | 4 55 | 6 7 | | | n.a. |
| W 9 | 5 4 | 16 3 | 3 48 | 2 13 | 0 59 | 7 30 | 0 39 | 16 52 | 1 29 | 16 35 | 0 33 | 22 46 | 1 1 | 20 38 | 0 4 | 22 12 | 1 3 | 14 6 | 6 43 | 4 27 | 4 56 | 6 5 | | | n.a. |
| T 10 | 5 28 | 13 45 | 2 58 | 2 58 | 0 53 | 8 1 | 0 37 | 16 41 | 1 29 | 16 38 | 0 33 | 22 46 | 1 1 | 20 38 | 0 4 | 22 12 | 1 3 | 14 6 | 6 43 | 4 27 | 4 58 | 6 3 | | | n.a. |
| F 11 | 5 51 | 10 54 | 2 0 | 3 42 | 0 47 | 8 31 | 0 35 | 16 30 | 1 30 | 16 42 | 0 33 | 22 46 | 1 1 | 20 38 | 0 4 | 22 12 | 1 3 | 14 6 | 6 43 | 4 26 | 4 59 | 6 2 | | | n.a. |
| S 12 | 6 15 | 7 37 | 0 58 | 4 27 | 0 40 | 9 1 | 0 33 | 16 20 | 1 30 | 16 46 | 0 32 | 22 46 | 1 1 | 20 37 | 0 4 | 22 11 | 1 3 | 14 6 | 6 43 | 4 25 | 5 0 | 6 0 | | | n.a. |
| S 13 | 6 38 | 4 2 | 0s 7 | 5 11 | 0 34 | 9 31 | 0 31 | 16 9 | 1 31 | 16 49 | 0 32 | 22 45 | 1 1 | 20 37 | 0 4 | 22 11 | 1 3 | 14 6 | 6 43 | 4 25 | 5 1 | 5 58 | | | n.a. |
| M14 | 7 2 | 0 16 | 1 11 | 5 54 | 0 27 | 10 1 | 0 28 | 15 58 | 1 31 | 16 53 | 0 32 | 22 45 | 1 1 | 20 37 | 0 4 | 22 11 | 1 3 | 14 5 | 6 44 | 4 25 | 5 3 | 5 56 | | | n.a. |
| T 15 | 7 25 | 3n33 | 2 13 | 6 38 | 0 21 | 10 30 | 0 26 | 15 47 | 1 32 | 16 57 | 0 32 | 22 45 | 1 1 | 20 36 | 0 4 | 22 11 | 1 3 | 14 5 | 6 44 | 4 26 | 5 4 | 5 54 | | | n.a. |
| W16 | 7 48 | 7 15 | 3 10 | 7 21 | 0 14 | 10 59 | 0 24 | 15 36 | 1 33 | 17 0 | 0 32 | 22 45 | 1 1 | 20 36 | 0 4 | 22 11 | 1 3 | 14 5 | 6 44 | 4 28 | 5 5 | 5 53 | | | n.a. |
| T 17 | 8 11 | 10 42 | 3 58 | 8 4 | 0 7 | 11 28 | 0 21 | 15 24 | 1 33 | 17 4 | 0 32 | 22 44 | 1 1 | 20 36 | 0 4 | 22 11 | 1 3 | 14 5 | 6 44 | 4 30 | 5 6 | 5 51 | | | n.a. |
| F 18 | 8 34 | 13 44 | 4 36 | 8 46 | 0 1 | 11 57 | 0 19 | 15 13 | 1 34 | 17 8 | 0 32 | 22 44 | 1 1 | 20 35 | 0 4 | 22 11 | 1 3 | 14 5 | 6 44 | 4 32 | 5 8 | 5 49 | | | n.a. |
| S 19 | 8 57 | 16 10 | 5 1 | 9 28 | 0s 6 | 12 25 | 0 17 | 15 2 | 1 34 | 17 12 | 0 32 | 22 44 | 1 1 | 20 35 | 0 4 | 22 11 | 1 3 | 14 4 | 6 44 | 4 35 | 5 9 | 5 47 | | | n.a. |
| S 20 | 9 20 | 17 50 | 5 11 | 10 9 | 0 12 | 12 53 | 0 14 | 14 50 | 1 35 | 17 15 | 0 31 | 22 43 | 1 1 | 20 34 | 0 4 | 22 11 | 1 3 | 14 4 | 6 44 | 4 37 | 5 10 | 5 46 | | | n.a. |
| M21 | 9 42 | 18 36 | 5 6 | 10 50 | 0 19 | 13 21 | 0 12 | 14 39 | 1 35 | 17 19 | 0 31 | 22 43 | 1 1 | 20 34 | 0 4 | 22 11 | 1 3 | 14 4 | 6 44 | 4 38 | 5 11 | 5 44 | | | n.a. |
| T 22 | 10 5 | 18 22 | 4 44 | 11 30 | 0 25 | 13 48 | 0 10 | 14 28 | 1 36 | 17 23 | 0 31 | 22 42 | 1 1 | 20 34 | 0 4 | 22 11 | 1 3 | 14 4 | 6 44 | 4 39 | 5 13 | 5 42 | | | n.a. |
| W23 | 10 27 | 17 4 | 4 5 | 12 10 | 0 32 | 14 15 | 0 7 | 14 16 | 1 36 | 17 26 | 0 31 | 22 42 | 1 1 | 20 33 | 0 4 | 22 11 | 1 3 | 14 3 | 6 44 | 4 40 | 5 14 | 5 40 | | | n.a. |
| T 24 | 10 49 | 14 45 | 3 12 | 12 49 | 0 38 | 14 42 | 0 5 | 14 4 | 1 37 | 17 30 | 0 31 | 22 42 | 1 1 | 20 33 | 0 4 | 22 10 | 1 3 | 14 3 | 6 44 | 4 40 | 5 15 | 5 38 | | | n.a. |
| F 25 | 11 11 | 11 30 | 2 6 | 13 28 | 0 44 | 15 8 | 0 2 | 13 53 | 1 37 | 17 34 | 0 31 | 22 41 | 1 1 | 20 32 | 0 3 | 22 10 | 1 3 | 14 3 | 6 44 | 4 39 | 5 16 | 5 37 | | | n.a. |
| S 26 | 11 33 | 7 30 | 0 51 | 14 6 | 0 50 | 15 34 | 0s 0 | 13 41 | 1 38 | 17 37 | 0 31 | 22 41 | 1 1 | 20 32 | 0 3 | 22 10 | 1 3 | 14 3 | 6 44 | 4 39 | 5 18 | 5 35 | | | n.a. |
| S 27 | 11 54 | 2 59 | 0n29 | 14 43 | 0 57 | 15 59 | 0 3 | 13 29 | 1 38 | 17 41 | 0 31 | 22 40 | 1 1 | 20 32 | 0 3 | 22 10 | 1 3 | 14 2 | 6 44 | 4 38 | 5 19 | 5 33 | | | n.a. |
| M28 | 12 16 | 1s46 | 1 47 | 15 19 | 1 2 | 16 25 | 0 5 | 13 18 | 1 39 | 17 45 | 0 30 | 22 40 | 1 1 | 20 31 | 0 3 | 22 10 | 1 3 | 14 2 | 6 44 | 4 39 | 5 20 | 5 31 | | | n.a. |
| T 29 | 12 37 | 6 24 | 2 58 | 15 55 | 1 8 | 16 49 | 0 7 | 13 6 | 1 40 | 17 48 | 0 30 | 22 39 | 1 1 | 20 31 | 0 3 | 22 10 | 1 3 | 14 2 | 6 44 | 4 41 | 5 21 | 5 30 | | | n.a. |
| W30 | 12 58 | 10 37 | 3 56 | 16 31 | 1 14 | 17 13 | 0 10 | 12 54 | 1 40 | 17 52 | 0 30 | 22 39 | 1 1 | 20 30 | 0 3 | 22 10 | 1 3 | 14 2 | 6 44 | 4 43 | 5 23 | 5 28 | | | n.a. |
| T 31 | 13s18 | 14s 7 | 4n38 | 17s 5 | 1s20 | 17s37 | 0s12 | 12n42 | 1n41 | 17s55 | 0n30 | 22s38 | 1s 1 | 20n30 | 0s 3 | 22n10 | 1s 3 | 14n 2 | 6s44 | 4n46 | 5n24 | 5s26 | | | n.a. |

Julian Day Number = 1696128.5, Delta T = 03h07m57s
Ecliptic obliquity = 23°42'04, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°01'13, Lahiri = - 4°54'12 Julian Calendar 1 Oct. 70 BCE == Greg. Calendar 29 Sept. 070 BCE

The year -69 astronomical counting style corresponds to year 070 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 70 BCE
# geocentric

## NOVEMBER 70 BCE (-69) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 2 27 58 | 5♏56'57 | 6♐37 | 14♏15 | 19♏24 | 1♍50 | 22♏ 0 | 23♑30 | 0°R49 | 18°R40 | 1°R10 | 17°R56 | 16♍24 | 16♓28 | n.a. | F 1 |
| S 2 | 2 31 55 | 6°57'56 | 20°20 | 15°49 | 20°39 | 2°25 | 22°13 | 23°33 | 0♊47 | 18♊39 | 1♊ 9 | 17♍48 | 16°21 | 16°35 | n.a. | S 2 |
| S 3 | 2 35 51 | 7°58'56 | 3♑36 | 17°21 | 21°55 | 2°59 | 22°27 | 23°36 | 0°44 | 18°38 | 1° 8 | 17°41 | 16°18 | 16°41 | n.a. | S 3 |
| M 4 | 2 39 48 | 8°59'56 | 16°27 | 18°54 | 23°10 | 3°33 | 22°40 | 23°40 | 0°42 | 18°37 | 1° 7 | 17°37 | 16°15 | 16°48 | n.a. | M 4 |
| T 5 | 2 43 44 | 10° 0'57 | 28°55 | 20°27 | 24°25 | 4° 7 | 22°54 | 23°43 | 0°40 | 18°36 | 1° 6 | 17°34 | 16°12 | 16°55 | n.a. | T 5 |
| W 6 | 2 47 41 | 11° 1'59 | 11♒ 5 | 22° 0 | 25°40 | 4°40 | 23° 7 | 23°47 | 0°37 | 18°34 | 1° 5 | 17°D33 | 16° 9 | 17° 1 | n.a. | W 6 |
| T 7 | 2 51 38 | 12° 3'02 | 23° 2 | 23°32 | 26°56 | 5°14 | 23°21 | 23°51 | 0°35 | 18°33 | 1° 4 | 17°34 | 16° 5 | 17° 8 | n.a. | T 7 |
| F 8 | 2 55 34 | 13° 4'05 | 4♓51 | 25° 5 | 28°11 | 5°48 | 23°35 | 23°55 | 0°33 | 18°32 | 1° 2 | 17°35 | 16° 2 | 17°15 | n.a. | F 8 |
| S 9 | 2 59 31 | 14° 5'09 | 16°38 | 26°37 | 29°26 | 6°22 | 23°48 | 23°58 | 0°30 | 18°30 | 1° 1 | 17°R35 | 15°59 | 17°21 | n.a. | S 9 |
| S 10 | 3 3 27 | 15° 6'14 | 28°27 | 28° 9 | 0♐41 | 6°55 | 24° 2 | 24° 2 | 0°28 | 18°29 | 1° 0 | 17°35 | 15°56 | 17°28 | n.a. | S 10 |
| M11 | 3 7 24 | 16° 7'19 | 10♈23 | 29°41 | 1°56 | 7°29 | 24°16 | 24° 6 | 0°25 | 18°28 | 0°59 | 17°32 | 15°53 | 17°34 | n.a. | M11 |
| T 12 | 3 11 20 | 17° 8'25 | 22°30 | 1♐12 | 3°11 | 8° 2 | 24°29 | 24°11 | 0°23 | 18°26 | 0°58 | 17°26 | 15°50 | 17°41 | n.a. | T 12 |
| W13 | 3 15 17 | 18° 9'32 | 4♉49 | 2°44 | 4°27 | 8°35 | 24°43 | 24°15 | 0°20 | 18°25 | 0°57 | 17°18 | 15°46 | 17°48 | n.a. | W13 |
| T 14 | 3 19 13 | 19°10'39 | 17°22 | 4°14 | 5°42 | 9° 8 | 24°57 | 24°19 | 0°18 | 18°23 | 0°56 | 17° 8 | 15°43 | 17°54 | n.a. | T 14 |
| F 15 | 3 23 10 | 20°11'48 | 0♊ 9 | 5°45 | 6°57 | 9°41 | 25°10 | 24°24 | 0°15 | 18°22 | 0°54 | 16°57 | 15°40 | 18° 1 | n.a. | F 15 |
| S 16 | 3 27 7 | 21°12'56 | 13°10 | 7°15 | 8°12 | 10°14 | 25°24 | 24°28 | 0°13 | 18°21 | 0°53 | 16°45 | 15°37 | 18° 8 | n.a. | S 16 |
| S 17 | 3 31 3 | 22°14'06 | 26°24 | 8°44 | 9°27 | 10°47 | 25°38 | 24°33 | 0°10 | 18°19 | 0°52 | 16°34 | 15°34 | 18°14 | n.a. | S 17 |
| M18 | 3 35 0 | 23°15'17 | 9♋49 | 10°12 | 10°42 | 11°20 | 25°52 | 24°37 | 0° 8 | 18°18 | 0°51 | 16°25 | 15°30 | 18°21 | n.a. | M18 |
| T 19 | 3 38 56 | 24°16'28 | 23°23 | 11°39 | 11°57 | 11°53 | 26° 5 | 24°42 | 0° 5 | 18°16 | 0°50 | 16°18 | 15°27 | 18°28 | n.a. | T 19 |
| W20 | 3 42 53 | 25°17'40 | 7♌ 7 | 13° 5 | 13°12 | 12°26 | 26°19 | 24°47 | 0° 3 | 18°15 | 0°48 | 16°14 | 15°24 | 18°34 | n.a. | W20 |
| T 21 | 3 46 49 | 26°18'53 | 20°59 | 14°30 | 14°28 | 12°58 | 26°33 | 24°52 | 29♉59 | 18°13 | 0°47 | 16°D13 | 15°21 | 18°41 | n.a. | T 21 |
| F 22 | 3 50 46 | 27°20'06 | 5♍ 0 | 15°53 | 15°43 | 13°31 | 26°47 | 24°56 | 29°57 | 18°11 | 0°46 | 16°13 | 15°18 | 18°48 | n.a. | F 22 |
| S 23 | 3 54 42 | 28°21'20 | 19° 9 | 17°14 | 16°58 | 14° 3 | 27° 0 | 25° 1 | 29°55 | 18°10 | 0°45 | 16°R13 | 15°15 | 18°54 | n.a. | S 23 |
| S 24 | 3 58 39 | 29°22'35 | 3♎25 | 18°32 | 18°13 | 14°35 | 27°14 | 25° 7 | 29°52 | 18° 8 | 0°44 | 16°12 | 15°11 | 19° 1 | n.a. | S 24 |
| M25 | 4 2 36 | 0♐23'51 | 17°47 | 19°48 | 19°28 | 15° 7 | 27°28 | 25°12 | 29°50 | 18° 7 | 0°42 | 16° 9 | 15° 8 | 19° 7 | n.a. | M25 |
| T 26 | 4 6 32 | 1°25'06 | 2♏10 | 21° 0 | 20°43 | 15°39 | 27°42 | 25°17 | 29°47 | 18° 5 | 0°41 | 16° 2 | 15° 5 | 19°14 | n.a. | T 26 |
| W27 | 4 10 29 | 2°26'23 | 16°29 | 22° 9 | 21°58 | 16°11 | 27°55 | 25°22 | 29°45 | 18° 3 | 0°40 | 15°53 | 15° 2 | 19°21 | n.a. | W27 |
| T 28 | 4 14 25 | 3°27'40 | 0♐39 | 23°13 | 23°13 | 16°43 | 28° 9 | 25°28 | 29°42 | 18° 2 | 0°39 | 15°42 | 14°59 | 19°27 | n.a. | T 28 |
| F 29 | 4 18 22 | 4°28'56 | 14°34 | 24°12 | 24°28 | 17°15 | 28°23 | 25°33 | 29°39 | 18° 0 | 0°38 | 15°29 | 14°56 | 19°34 | n.a. | F 29 |
| S 30 | 4 22 18 | 5♐30'14 | 28♐10 | 25♐ 5 | 25♐43 | 17♍46 | 28♏36 | 25♑38 | 29♉37 | 17♊59 | 0♊37 | 15♍16 | 14♍52 | 19♓41 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 13s39 | 16s41 | 5n 2 | 17s38 | 1s25 | 18s 1 | 0s15 | 12n30 | 1n41 | 17s59 | 0n30 | 22s38 | 1s 1 | 20n29 | 0s 3 | 22n10 | 1s 3 | 14n 1 | 6s44 | 4n49 | 5n25 | 5s24 | | n.a. |
| S 2 | 13 59 | 18 14 | 5 8 | 18 11 | 1 30 | 18 23 | 0 17 | 12 19 | 1 42 | 18 3 | 0 30 | 22 37 | 1 1 | 20 29 | 0 3 | 22 9 | 1 3 | 14 1 | 6 44 | 4 52 | 5 26 | 5 22 | | n.a. |
| S 3 | 14 19 | 18 43 | 4 56 | 18 43 | 1 35 | 18 46 | 0 20 | 12 7 | 1 42 | 18 6 | 0 30 | 22 36 | 1 1 | 20 28 | 0 3 | 22 9 | 1 3 | 14 1 | 6 44 | 4 55 | 5 28 | 5 21 | | n.a. |
| M 4 | 14 39 | 18 12 | 4 30 | 19 14 | 1 40 | 19 7 | 0 22 | 11 55 | 1 43 | 18 10 | 0 30 | 22 36 | 1 0 | 20 28 | 0 3 | 22 9 | 1 3 | 14 1 | 6 44 | 4 57 | 5 29 | 5 19 | | n.a. |
| T 5 | 14 59 | 16 49 | 3 52 | 19 44 | 1 45 | 19 29 | 0 25 | 11 43 | 1 43 | 18 13 | 0 30 | 22 35 | 1 0 | 20 27 | 0 3 | 22 9 | 1 3 | 14 0 | 6 44 | 4 58 | 5 30 | 5 17 | | n.a. |
| W 6 | 15 18 | 14 42 | 3 4 | 20 13 | 1 49 | 19 49 | 0 27 | 11 31 | 1 44 | 18 17 | 0 29 | 22 34 | 1 0 | 20 27 | 0 3 | 22 9 | 1 3 | 14 0 | 6 44 | 4 58 | 5 31 | 5 15 | | n.a. |
| T 7 | 15 37 | 11 58 | 2 8 | 20 41 | 1 53 | 20 10 | 0 29 | 11 19 | 1 45 | 18 21 | 0 29 | 22 34 | 1 0 | 20 26 | 0 3 | 22 9 | 1 3 | 14 0 | 6 44 | 4 58 | 5 33 | 5 13 | | n.a. |
| F 8 | 15 56 | 8 47 | 1 8 | 21 8 | 1 57 | 20 29 | 0 32 | 11 7 | 1 45 | 18 24 | 0 29 | 22 33 | 1 0 | 20 26 | 0 3 | 22 9 | 1 3 | 14 0 | 6 44 | 4 58 | 5 34 | 5 12 | | n.a. |
| S 9 | 16 14 | 5 15 | 0 5 | 21 34 | 2 1 | 20 48 | 0 34 | 10 54 | 1 46 | 18 28 | 0 29 | 22 32 | 1 0 | 20 25 | 0 3 | 22 9 | 1 3 | 14 0 | 6 44 | 4 57 | 5 35 | 5 10 | | n.a. |
| S 10 | 16 33 | 1 30 | 0s58 | 21 58 | 2 4 | 21 7 | 0 37 | 10 42 | 1 46 | 18 31 | 0 29 | 22 32 | 1 0 | 20 25 | 0 3 | 22 9 | 1 3 | 13 59 | 6 44 | 4 58 | 5 36 | 5 8 | | n.a. |
| M11 | 16 51 | 2n20 | 1 59 | 22 22 | 2 7 | 21 25 | 0 39 | 10 30 | 1 47 | 18 35 | 0 29 | 22 31 | 1 0 | 20 24 | 0 3 | 22 8 | 1 3 | 13 59 | 6 44 | 4 59 | 5 38 | 5 6 | | n.a. |
| T 12 | 17 8 | 6 8 | 2 56 | 22 44 | 2 9 | 21 42 | 0 41 | 10 18 | 1 47 | 18 38 | 0 29 | 22 30 | 1 0 | 20 24 | 0 3 | 22 8 | 1 3 | 13 59 | 6 44 | 5 1 | 5 39 | 5 4 | | n.a. |
| W13 | 17 26 | 9 44 | 3 45 | 23 5 | 2 12 | 21 58 | 0 43 | 10 6 | 1 48 | 18 42 | 0 29 | 22 29 | 1 0 | 20 23 | 0 3 | 22 8 | 1 3 | 13 59 | 6 44 | 5 4 | 5 40 | 5 3 | | n.a. |
| T 14 | 17 43 | 12 59 | 4 24 | 23 25 | 2 14 | 22 14 | 0 46 | 9 54 | 1 48 | 18 45 | 0 29 | 22 29 | 1 0 | 20 23 | 0 3 | 22 8 | 1 3 | 13 58 | 6 44 | 5 8 | 5 41 | 5 1 | | n.a. |
| F 15 | 17 59 | 15 40 | 4 50 | 23 43 | 2 15 | 22 30 | 0 48 | 9 42 | 1 49 | 18 48 | 0 28 | 22 28 | 1 0 | 20 22 | 0 3 | 22 8 | 1 3 | 13 58 | 6 44 | 5 13 | 5 43 | 4 59 | | n.a. |
| S 16 | 18 16 | 17 38 | 5 2 | 23 59 | 2 16 | 22 44 | 0 50 | 9 30 | 1 50 | 18 52 | 0 28 | 22 27 | 1 0 | 20 22 | 0 3 | 22 8 | 1 4 | 13 58 | 6 44 | 5 17 | 5 44 | 4 57 | | n.a. |
| S 17 | 18 32 | 18 41 | 4 59 | 24 15 | 2 16 | 22 58 | 0 52 | 9 18 | 1 50 | 18 55 | 0 28 | 22 26 | 1 0 | 20 21 | 0 3 | 22 8 | 1 4 | 13 58 | 6 44 | 5 22 | 5 45 | 4 55 | | n.a. |
| M18 | 18 47 | 18 42 | 4 39 | 24 28 | 2 16 | 23 12 | 0 55 | 9 6 | 1 51 | 18 59 | 0 28 | 22 25 | 1 0 | 20 21 | 0 3 | 22 7 | 1 4 | 13 58 | 6 44 | 5 25 | 5 46 | 4 53 | | n.a. |
| T 19 | 19 3 | 17 40 | 4 2 | 24 40 | 2 16 | 23 24 | 0 57 | 8 53 | 1 51 | 19 2 | 0 28 | 22 24 | 1 0 | 20 20 | 0 3 | 22 7 | 1 4 | 13 57 | 6 44 | 5 28 | 5 48 | 4 52 | | n.a. |
| W20 | 19 18 | 15 36 | 3 12 | 24 50 | 2 14 | 23 36 | 0 59 | 8 41 | 1 52 | 19 5 | 0 28 | 22 24 | 1 0 | 20 20 | 0 3 | 22 7 | 1 4 | 13 57 | 6 44 | 5 29 | 5 49 | 4 50 | | n.a. |
| T 21 | 19 32 | 12 36 | 2 10 | 24 59 | 2 12 | 23 47 | 1 1 | 8 29 | 1 52 | 19 9 | 0 28 | 22 23 | 1 0 | 20 19 | 0 3 | 22 7 | 1 4 | 13 57 | 6 44 | 5 30 | 5 50 | 4 48 | | n.a. |
| F 22 | 19 47 | 8 52 | 0 59 | 25 6 | 2 10 | 23 58 | 1 3 | 8 17 | 1 53 | 19 12 | 0 28 | 22 22 | 1 0 | 20 19 | 0 3 | 22 7 | 1 4 | 13 57 | 6 44 | 5 30 | 5 51 | 4 46 | | n.a. |
| S 23 | 20 1 | 4 35 | 0n16 | 25 11 | 2 6 | 24 8 | 1 5 | 8 5 | 1 54 | 19 15 | 0 28 | 22 21 | 1 0 | 20 18 | 0 3 | 22 7 | 1 4 | 13 57 | 6 44 | 5 30 | 5 53 | 4 44 | | n.a. |
| S 24 | 20 14 | 0s 0 | 1 30 | 25 14 | 2 2 | 24 17 | 1 7 | 7 53 | 1 54 | 19 18 | 0 28 | 22 20 | 1 0 | 20 17 | 0 3 | 22 7 | 1 4 | 13 56 | 6 44 | 5 30 | 5 54 | 4 43 | | n.a. |
| M25 | 20 27 | 4 36 | 2 39 | 25 15 | 1 57 | 24 25 | 1 9 | 7 41 | 1 55 | 19 22 | 0 28 | 22 19 | 1 0 | 20 17 | 0 3 | 22 6 | 1 4 | 13 56 | 6 44 | 5 31 | 5 55 | 4 41 | | n.a. |
| T 26 | 20 40 | 8 57 | 3 38 | 25 15 | 1 51 | 24 33 | 1 10 | 7 29 | 1 55 | 19 25 | 0 27 | 22 18 | 1 0 | 20 16 | 0 3 | 22 6 | 1 4 | 13 56 | 6 44 | 5 34 | 5 56 | 4 39 | | n.a. |
| W27 | 20 53 | 12 45 | 4 23 | 25 12 | 1 44 | 24 39 | 1 12 | 7 17 | 1 56 | 19 28 | 0 27 | 22 17 | 1 0 | 20 16 | 0 3 | 22 6 | 1 4 | 13 56 | 6 44 | 5 38 | 5 58 | 4 37 | | n.a. |
| T 28 | 21 5 | 15 46 | 4 51 | 25 8 | 1 36 | 24 45 | 1 14 | 7 5 | 1 56 | 19 31 | 0 27 | 22 16 | 1 0 | 20 15 | 0 3 | 22 6 | 1 4 | 13 56 | 6 44 | 5 42 | 5 59 | 4 35 | | n.a. |
| F 29 | 21 16 | 17 49 | 5 1 | 25 1 | 1 27 | 24 51 | 1 16 | 6 53 | 1 57 | 19 35 | 0 27 | 22 15 | 1 0 | 20 15 | 0 3 | 22 6 | 1 4 | 13 55 | 6 44 | 5 47 | 6 0 | 4 33 | | n.a. |
| S 30 | 21s27 | 18s48 | 4n53 | 24s53 | 1s17 | 24s55 | 1s17 | 6n41 | 1n58 | 19s38 | 0n27 | 22s14 | 1s 0 | 20n14 | 0s 3 | 22n 6 | 1s 4 | 13n55 | 6s44 | 5n52 | 6n 1 | 4s32 | | n.a. |

Julian Day Number = 1696159.5, Delta T = 03h07m57s
Ecliptic obliquity = 23°42'03, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°01'09, Lahiri = - 4°54'08 Julian Calendar 1 Nov. 70 BCE == Greg. Calendar 30 Oct. 070 BCE

The year -69 astronomical counting style corresponds to year 070 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 70 BCE
# geocentric

## DECEMBER 70 BCE (-69) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 4 26 15 | 6♐31'30 | 11♉23 | 25♐51 | 26♐58 | 18♍18 | 28♏50 | 25♉44 | 29°R34 | 17°R57 | 0°R35 | 15°R 5 | 14♍49 | 19♓47 | n.a. | S 1 |
| M 2 | 4 30 12 | 7°32'47 | 24°14 | 26°30 | 28°13 | 18°49 | 29° 4 | 25°50 | 29♉32 | 17♊55 | 0♊34 | 14♍56 | 14°46 | 19°54 | n.a. | M 2 |
| T 3 | 4 34 8 | 8°34'04 | 6♒44 | 27° 0 | 29°28 | 19°20 | 29°18 | 25°55 | 29°29 | 17°54 | 0°33 | 14°49 | 14°43 | 20° 1 | n.a. | T 3 |
| W 4 | 4 38 5 | 9°35'20 | 18°55 | 27°20 | 0♉43 | 19°51 | 29°31 | 26° 1 | 29°27 | 17°52 | 0°32 | 14°46 | 14°40 | 20° 7 | n.a. | W 4 |
| T 5 | 4 42 1 | 10°36'36 | 0♓53 | 27°R30 | 1°58 | 20°22 | 29°45 | 26° 7 | 29°24 | 17°50 | 0°31 | 14°44 | 14°36 | 20°14 | n.a. | T 5 |
| F 6 | 4 45 58 | 11°37'52 | 12°43 | 27°29 | 3°12 | 20°53 | 29°59 | 26°13 | 29°22 | 17°48 | 0°29 | 14°44 | 14°33 | 20°21 | n.a. | F 6 |
| S 7 | 4 49 54 | 12°39'07 | 24°30 | 27°17 | 4°27 | 21°24 | 0♐12 | 26°19 | 29°19 | 17°47 | 0°28 | 14°44 | 14°30 | 20°27 | n.a. | S 7 |
| S 8 | 4 53 51 | 13°40'21 | 6♈20 | 26°52 | 5°42 | 21°54 | 0°26 | 26°25 | 29°17 | 17°45 | 0°27 | 14°43 | 14°27 | 20°34 | n.a. | S 8 |
| M 9 | 4 57 47 | 14°41'36 | 18°19 | 26°16 | 6°57 | 22°25 | 0°39 | 26°31 | 29°14 | 17°43 | 0°26 | 14°39 | 14°24 | 20°41 | n.a. | M 9 |
| T 10 | 5 1 44 | 15°42'49 | 0♉30 | 25°29 | 8°12 | 22°55 | 0°53 | 26°37 | 29°12 | 17°42 | 0°25 | 14°33 | 14°21 | 20°47 | n.a. | T 10 |
| W11 | 5 5 41 | 16°44'02 | 12°58 | 24°31 | 9°27 | 23°25 | 1° 6 | 26°43 | 29° 9 | 17°40 | 0°24 | 14°24 | 14°17 | 20°54 | n.a. | W11 |
| T 12 | 5 9 37 | 17°45'15 | 25°45 | 23°25 | 10°41 | 23°55 | 1°20 | 26°49 | 29° 7 | 17°38 | 0°22 | 14°13 | 14°14 | 21° 0 | n.a. | T 12 |
| F 13 | 5 13 34 | 18°46'27 | 8♊50 | 22°12 | 11°56 | 24°25 | 1°33 | 26°55 | 29° 5 | 17°37 | 0°21 | 14° 0 | 14°11 | 21° 7 | n.a. | F 13 |
| S 14 | 5 17 30 | 19°47'39 | 22°14 | 20°55 | 13°11 | 24°54 | 1°47 | 27° 2 | 29° 2 | 17°35 | 0°20 | 13°46 | 14° 8 | 21°14 | n.a. | S 14 |
| S 15 | 5 21 27 | 20°48'50 | 5♋53 | 19°35 | 14°26 | 25°24 | 2° 0 | 27° 8 | 29° 0 | 17°33 | 0°19 | 13°34 | 14° 5 | 21°20 | n.a. | S 15 |
| M16 | 5 25 23 | 21°50'01 | 19°44 | 18°16 | 15°40 | 25°53 | 2°14 | 27°14 | 28°57 | 17°31 | 0°18 | 13°23 | 14° 2 | 21°27 | n.a. | M16 |
| T 17 | 5 29 20 | 22°51'12 | 3♌43 | 17° 0 | 16°55 | 26°22 | 2°27 | 27°21 | 28°55 | 17°30 | 0°17 | 13°15 | 13°58 | 21°34 | n.a. | T 17 |
| W18 | 5 33 16 | 23°52'22 | 17°47 | 15°50 | 18°10 | 26°51 | 2°40 | 27°27 | 28°53 | 17°28 | 0°16 | 13°11 | 13°55 | 21°40 | n.a. | W18 |
| T 19 | 5 37 13 | 24°53'31 | 1♍52 | 14°46 | 19°24 | 27°20 | 2°54 | 27°34 | 28°51 | 17°26 | 0°15 | 13° 9 | 13°52 | 21°47 | n.a. | T 19 |
| F 20 | 5 41 10 | 25°54'40 | 15°58 | 13°50 | 20°39 | 27°49 | 3° 7 | 27°40 | 28°48 | 17°25 | 0°14 | 13°D 8 | 13°49 | 21°54 | n.a. | F 20 |
| S 21 | 5 45 6 | 26°55'49 | 0♎ 3 | 13° 3 | 21°53 | 28°17 | 3°20 | 27°47 | 28°46 | 17°23 | 0°13 | 13°R 8 | 13°46 | 22° 0 | n.a. | S 21 |
| S 22 | 5 49 3 | 27°56'57 | 14° 6 | 12°25 | 23° 8 | 28°46 | 3°33 | 27°53 | 28°44 | 17°21 | 0°11 | 13° 7 | 13°42 | 22° 7 | n.a. | S 22 |
| M23 | 5 52 59 | 28°58'05 | 28° 7 | 11°56 | 24°22 | 29°14 | 3°47 | 28° 0 | 28°42 | 17°20 | 0°10 | 13° 4 | 13°39 | 22°14 | n.a. | M23 |
| T 24 | 5 56 56 | 29°59'13 | 12♏ 4 | 11°37 | 25°37 | 29°42 | 4° 0 | 28° 7 | 28°40 | 17°18 | 0° 9 | 12°59 | 13°36 | 22°20 | n.a. | T 24 |
| W25 | 6 0 52 | 1♉ 0'19 | 25°56 | 11°27 | 26°51 | 0♎ 9 | 4°13 | 28°14 | 28°38 | 17°16 | 0° 8 | 12°50 | 13°33 | 22°27 | n.a. | W25 |
| T 26 | 6 4 49 | 2° 1'25 | 9♐39 | 11°D25 | 28° 6 | 0°37 | 4°26 | 28°20 | 28°36 | 17°15 | 0° 7 | 12°39 | 13°30 | 22°34 | n.a. | T 26 |
| F 27 | 6 8 45 | 3° 2'31 | 23° 9 | 11°31 | 29°20 | 1° 4 | 4°39 | 28°27 | 28°34 | 17°13 | 0° 6 | 12°27 | 13°27 | 22°40 | n.a. | F 27 |
| S 28 | 6 12 42 | 4° 3'35 | 6♉26 | 11°44 | 0♒35 | 1°31 | 4°52 | 28°34 | 28°32 | 17°11 | 0° 5 | 12°14 | 13°23 | 22°47 | n.a. | S 28 |
| S 29 | 6 16 39 | 5° 4'39 | 19°25 | 12° 4 | 1°49 | 1°58 | 5° 5 | 28°41 | 28°30 | 17°10 | 0° 4 | 12° 3 | 13°20 | 22°53 | n.a. | S 29 |
| M30 | 6 20 35 | 6° 5'41 | 2♒ 7 | 12°31 | 3° 3 | 2°25 | 5°17 | 28°48 | 28°28 | 17° 8 | 0° 4 | 11°54 | 13°17 | 23° 0 | n.a. | M30 |
| T 31 | 6 24 32 | 7♉ 6'42 | 14♒31 | 13♐ 3 | 4♒17 | 2♎51 | 5♐30 | 28♉55 | 28♉26 | 17♊ 7 | 0♊ 3 | 11♍48 | 13♍14 | 23♓ 7 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| S 1 | 21s38 | 18s43 | 4n30 | 24s43 | 1s 5 | 24s59 | 1s19 | 6n29 | 1n58 | 19s41 | 0n27 | 22s13 | 1s 0 | 20n14 | 0s 3 | 22n 6 | 1s 4 | 13n55 | 6s44 | 5n56 | 6n 3 | 4s30 | | | n.a. |
| M 2 | 21 48 | 17 40 | 3 54 | 24 32 | 0 53 | 25 2 | 1 21 | 6 17 | 1 59 | 19 44 | 0 27 | 22 12 | 1 0 | 20 13 | 0 3 | 22 5 | 1 4 | 13 55 | 6 43 | 6 0 | 6 4 | 4 28 | | | n.a. |
| T 3 | 21 58 | 15 47 | 3 7 | 24 19 | 0 39 | 25 4 | 1 22 | 6 6 | 1 59 | 19 47 | 0 27 | 22 11 | 1 0 | 20 13 | 0 3 | 22 5 | 1 4 | 13 55 | 6 43 | 6 2 | 6 5 | 4 26 | | | n.a. |
| W 4 | 22 8 | 13 13 | 2 12 | 24 4 | 0 23 | 25 5 | 1 24 | 5 54 | 2 0 | 19 50 | 0 27 | 22 10 | 1 0 | 20 12 | 0 3 | 22 5 | 1 4 | 13 55 | 6 43 | 6 4 | 6 6 | 4 24 | | | n.a. |
| T 5 | 22 17 | 10 9 | 1 13 | 23 48 | 0 7 | 25 6 | 1 25 | 5 42 | 2 1 | 19 53 | 0 27 | 22 8 | 1 0 | 20 12 | 0 3 | 22 5 | 1 4 | 13 54 | 6 43 | 6 4 | 6 7 | 4 22 | | | n.a. |
| F 6 | 22 26 | 6 42 | 0 11 | 23 30 | 0n11 | 25 6 | 1 26 | 5 30 | 2 1 | 19 56 | 0 27 | 22 7 | 1 0 | 20 11 | 0 3 | 22 5 | 1 4 | 13 54 | 6 43 | 6 4 | 6 9 | 4 21 | | | n.a. |
| S 7 | 22 34 | 3 0 | 0s52 | 23 11 | 0 29 | 25 5 | 1 28 | 5 19 | 2 2 | 19 59 | 0 26 | 22 6 | 1 0 | 20 10 | 0 3 | 22 5 | 1 3 | 13 54 | 6 43 | 6 5 | 6 10 | 4 19 | | | n.a. |
| S 8 | 22 41 | 0n50 | 1 52 | 22 52 | 0 48 | 25 3 | 1 29 | 5 7 | 2 2 | 20 2 | 0 26 | 22 5 | 1 0 | 20 10 | 0 3 | 22 5 | 1 3 | 13 54 | 6 43 | 6 5 | 6 11 | 4 17 | | | n.a. |
| M 9 | 22 49 | 4 40 | 2 48 | 22 31 | 1 8 | 25 1 | 1 30 | 4 55 | 2 3 | 20 5 | 0 26 | 22 4 | 1 0 | 20 9 | 0 3 | 22 4 | 1 3 | 13 54 | 6 43 | 6 6 | 6 12 | 4 15 | | | n.a. |
| T 10 | 22 56 | 8 23 | 3 37 | 22 10 | 1 28 | 24 58 | 1 31 | 4 44 | 2 4 | 20 8 | 0 26 | 22 3 | 1 0 | 20 9 | 0 3 | 22 4 | 1 3 | 13 54 | 6 43 | 6 9 | 6 14 | 4 13 | | | n.a. |
| W11 | 23 2 | 11 49 | 4 17 | 21 48 | 1 47 | 24 54 | 1 32 | 4 32 | 2 4 | 20 11 | 0 26 | 22 2 | 1 0 | 20 8 | 0 3 | 22 4 | 1 3 | 13 53 | 6 43 | 6 12 | 6 15 | 4 11 | | | n.a. |
| T 12 | 23 8 | 14 47 | 4 45 | 21 27 | 2 5 | 24 49 | 1 33 | 4 21 | 2 5 | 20 14 | 0 26 | 22 0 | 1 0 | 20 8 | 0 3 | 22 4 | 1 3 | 13 53 | 6 43 | 6 17 | 6 16 | 4 10 | | | n.a. |
| F 13 | 23 13 | 17 5 | 4 59 | 21 5 | 2 23 | 24 43 | 1 34 | 4 10 | 2 5 | 20 16 | 0 26 | 21 59 | 1 0 | 20 7 | 0 3 | 22 4 | 1 3 | 13 53 | 6 43 | 6 22 | 6 17 | 4 8 | | | n.a. |
| S 14 | 23 18 | 18 32 | 4 57 | 20 45 | 2 39 | 24 37 | 1 35 | 3 58 | 2 6 | 20 19 | 0 26 | 21 58 | 1 0 | 20 7 | 0 3 | 22 4 | 1 3 | 13 53 | 6 42 | 6 27 | 6 19 | 4 6 | | | n.a. |
| S 15 | 23 23 | 18 56 | 4 38 | 20 25 | 2 52 | 24 30 | 1 36 | 3 47 | 2 7 | 20 22 | 0 26 | 21 57 | 1 0 | 20 6 | 0 3 | 22 4 | 1 3 | 13 53 | 6 42 | 6 32 | 6 20 | 4 4 | | | n.a. |
| M16 | 23 27 | 18 14 | 4 3 | 20 8 | 3 4 | 24 22 | 1 36 | 3 36 | 2 7 | 20 25 | 0 26 | 21 55 | 1 0 | 20 6 | 0 3 | 22 3 | 1 3 | 13 53 | 6 42 | 6 36 | 6 21 | 4 2 | | | n.a. |
| T 17 | 23 30 | 16 25 | 3 12 | 19 52 | 3 13 | 24 13 | 1 37 | 3 25 | 2 8 | 20 28 | 0 26 | 21 54 | 1 0 | 20 5 | 0 3 | 22 3 | 1 3 | 13 53 | 6 42 | 6 39 | 6 22 | 4 0 | | | n.a. |
| W18 | 23 33 | 13 37 | 2 10 | 19 38 | 3 19 | 24 4 | 1 38 | 3 14 | 2 9 | 20 30 | 0 26 | 21 53 | 1 0 | 20 5 | 0 3 | 22 3 | 1 3 | 13 53 | 6 42 | 6 41 | 6 24 | 3 59 | | | n.a. |
| T 19 | 23 36 | 10 0 | 0 59 | 19 27 | 3 24 | 23 54 | 1 38 | 3 2 | 2 9 | 20 33 | 0 26 | 21 52 | 1 0 | 20 4 | 0 3 | 22 3 | 1 3 | 13 52 | 6 42 | 6 42 | 6 25 | 3 57 | | | n.a. |
| F 20 | 23 38 | 5 49 | 0n15 | 19 19 | 3 26 | 23 43 | 1 39 | 2 52 | 2 10 | 20 36 | 0 25 | 21 50 | 1 0 | 20 4 | 0 3 | 22 3 | 1 3 | 13 52 | 6 42 | 6 42 | 6 26 | 3 55 | | | n.a. |
| S 21 | 23 40 | 1 20 | 1 28 | 19 13 | 3 25 | 23 32 | 1 39 | 2 41 | 2 10 | 20 38 | 0 25 | 21 49 | 1 0 | 20 3 | 0 3 | 22 3 | 1 3 | 13 52 | 6 42 | 6 42 | 6 27 | 3 53 | | | n.a. |
| S 22 | 23 41 | 3s13 | 2 36 | 19 10 | 3 23 | 23 19 | 1 39 | 2 30 | 2 11 | 20 41 | 0 25 | 21 48 | 1 0 | 20 3 | 0 3 | 22 3 | 1 3 | 13 52 | 6 42 | 6 42 | 6 28 | 3 51 | | | n.a. |
| M23 | 23 42 | 7 35 | 3 35 | 19 10 | 3 20 | 23 6 | 1 39 | 2 19 | 2 12 | 20 43 | 0 25 | 21 46 | 1 0 | 20 2 | 0 3 | 22 2 | 1 3 | 13 52 | 6 41 | 6 43 | 6 30 | 3 49 | | | n.a. |
| T 24 | 23 42 | 11 30 | 4 20 | 19 13 | 3 15 | 22 53 | 1 40 | 2 8 | 2 12 | 20 46 | 0 25 | 21 45 | 1 0 | 20 2 | 0 3 | 22 2 | 1 3 | 13 52 | 6 41 | 6 46 | 6 31 | 3 47 | | | n.a. |
| W25 | 23 42 | 14 46 | 4 49 | 19 17 | 3 8 | 22 39 | 1 40 | 1 58 | 2 13 | 20 48 | 0 25 | 21 44 | 1 0 | 20 2 | 0 3 | 22 2 | 1 3 | 13 52 | 6 41 | 6 49 | 6 32 | 3 46 | | | n.a. |
| T 26 | 23 41 | 17 10 | 5 2 | 19 24 | 3 1 | 22 24 | 1 40 | 1 47 | 2 14 | 20 51 | 0 25 | 21 42 | 1 0 | 20 1 | 0 3 | 22 2 | 1 3 | 13 52 | 6 41 | 6 53 | 6 33 | 3 44 | | | n.a. |
| F 27 | 23 40 | 18 35 | 4 57 | 19 33 | 2 53 | 22 8 | 1 40 | 1 37 | 2 14 | 20 53 | 0 25 | 21 41 | 1 0 | 20 1 | 0 3 | 22 2 | 1 3 | 13 52 | 6 41 | 6 58 | 6 35 | 3 42 | | | n.a. |
| S 28 | 23 38 | 18 57 | 4 36 | 19 43 | 2 44 | 21 52 | 1 39 | 1 27 | 2 15 | 20 56 | 0 25 | 21 40 | 1 1 | 20 0 | 0 3 | 22 2 | 1 3 | 13 52 | 6 41 | 7 3 | 6 36 | 3 40 | | | n.a. |
| S 29 | 23 36 | 18 18 | 4 1 | 19 55 | 2 35 | 21 35 | 1 39 | 1 17 | 2 15 | 20 58 | 0 25 | 21 38 | 1 1 | 20 0 | 0 3 | 22 2 | 1 3 | 13 52 | 6 41 | 7 7 | 6 37 | 3 38 | | | n.a. |
| M30 | 23 34 | 16 45 | 3 15 | 20 8 | 2 26 | 21 17 | 1 39 | 1 6 | 2 16 | 21 1 | 0 25 | 21 37 | 1 1 | 19 59 | 0 3 | 22 1 | 1 3 | 13 52 | 6 40 | 7 10 | 6 38 | 3 36 | | | n.a. |
| T 31 | 23s30 | 14s25 | 2n20 | 20s22 | 2n16 | 20s59 | 1s38 | 0n56 | 2n17 | 21s 3 | 0n25 | 21s35 | 1s 1 | 19n59 | 0s 3 | 22n 1 | 1s 3 | 13n51 | 6s40 | 7n13 | 6n40 | 3s34 | | | n.a. |

Julian Day Number = 1696189.5, Delta T = 03h07m56s
Ecliptic obliquity = 23°42'03, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°01'05, Lahiri = - 4°54'04 Julian Calendar 1 Dec. 70 BCE == Greg. Calendar 29 Nov. 070 BCE

The year -69 astronomical counting style corresponds to year 070 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 69 BCE
# geocentric

## JANUARY 69 BCE (-68) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 6 28 28 | 8♑ 7'41 | 26♒41 | 13♐40 | 5♒32 | 3♎17 | 5♐43 | 29♑ 2 | 28°R24 | 17°R 5 | 0°R 2 | 11°R45 | 13♍11 | 23♓13 | n.a. | W 1 |
| T 2 | 6 32 25 | 9° 8'40 | 8♓38 | 14°22 | 6°46 | 3°43 | 5°55 | 29° 9 | 28♉22 | 17♊ 4 | 0♊ 1 | 11°D43 | 13° 8 | 23°20 | n.a. | T 2 |
| F 3 | 6 36 21 | 10° 9'37 | 20°28 | 15° 8 | 8° 0 | 4° 9 | 6° 8 | 29°16 | 28°21 | 17° 2 | 29♉59 | 11♍43 | 13° 4 | 23°27 | n.a. | F 3 |
| S 4 | 6 40 18 | 11°10'32 | 2♈16 | 15°58 | 9°14 | 4°34 | 6°21 | 29°23 | 28°19 | 17° 0 | 29°59 | 11°44 | 13° 1 | 23°33 | n.a. | S 4 |
| S 5 | 6 44 15 | 12°11'26 | 14° 6 | 16°51 | 10°28 | 5° 0 | 6°33 | 29°30 | 28°17 | 16°59 | 29°58 | 11°R45 | 12°58 | 23°40 | n.a. | S 5 |
| M 6 | 6 48 11 | 13°12'18 | 26° 4 | 17°48 | 11°42 | 5°25 | 6°45 | 29°37 | 28°16 | 16°57 | 29°57 | 11°44 | 12°55 | 23°47 | n.a. | M 6 |
| T 7 | 6 52 8 | 14°13'09 | 8♉16 | 18°48 | 12°56 | 5°49 | 6°58 | 29°44 | 28°14 | 16°56 | 29°56 | 11°40 | 12°52 | 23°53 | n.a. | T 7 |
| W 8 | 6 56 4 | 15°13'59 | 20°46 | 19°50 | 14°10 | 6°14 | 7°10 | 29°51 | 28°13 | 16°55 | 29°56 | 11°35 | 12°48 | 24° 0 | n.a. | W 8 |
| T 9 | 7 0 1 | 16°14'46 | 3♊38 | 20°55 | 15°24 | 6°38 | 7°22 | 29°59 | 28°11 | 16°53 | 29°55 | 11°28 | 12°45 | 24° 7 | n.a. | T 9 |
| F 10 | 7 3 57 | 17°15'32 | 16°53 | 22° 2 | 16°38 | 7° 2 | 7°34 | 0♒ 6 | 28°10 | 16°52 | 29°54 | 11°19 | 12°42 | 24°13 | n.a. | F 10 |
| S 11 | 7 7 54 | 18°16'17 | 0♋31 | 23°11 | 17°52 | 7°26 | 7°47 | 0°13 | 28° 8 | 16°50 | 29°53 | 11° 9 | 12°39 | 24°20 | n.a. | S 11 |
| S 12 | 7 11 50 | 19°17'00 | 14°30 | 24°22 | 19° 6 | 7°49 | 7°59 | 0°20 | 28° 7 | 16°49 | 29°53 | 11° 0 | 12°36 | 24°27 | n.a. | S 12 |
| M13 | 7 15 47 | 20°17'42 | 28°46 | 25°35 | 20°20 | 8°12 | 8°11 | 0°27 | 28° 6 | 16°47 | 29°52 | 10°53 | 12°33 | 24°33 | n.a. | M13 |
| T 14 | 7 19 44 | 21°18'22 | 13♌12 | 26°50 | 21°33 | 8°35 | 8°22 | 0°35 | 28° 4 | 16°46 | 29°51 | 10°47 | 12°29 | 24°40 | n.a. | T 14 |
| W15 | 7 23 40 | 22°19'00 | 27°44 | 28° 6 | 22°47 | 8°57 | 8°34 | 0°42 | 28° 3 | 16°45 | 29°51 | 10°45 | 12°26 | 24°46 | n.a. | W15 |
| T 16 | 7 27 37 | 23°19'37 | 12♍14 | 29°24 | 24° 0 | 9°19 | 8°46 | 0°49 | 28° 2 | 16°43 | 29°50 | 10°D44 | 12°23 | 24°53 | n.a. | T 16 |
| F 17 | 7 31 33 | 24°20'13 | 26°39 | 0♑43 | 25°14 | 9°41 | 8°58 | 0°57 | 28° 1 | 16°42 | 29°49 | 10°45 | 12°20 | 25° 0 | n.a. | F 17 |
| S 18 | 7 35 30 | 25°20'48 | 10♎55 | 2° 3 | 26°27 | 10° 2 | 9° 9 | 1° 4 | 28° 0 | 16°41 | 29°49 | 10°46 | 12°17 | 25° 6 | n.a. | S 18 |
| S 19 | 7 39 26 | 26°21'21 | 25° 1 | 3°25 | 27°41 | 10°24 | 9°21 | 1°11 | 27°59 | 16°40 | 29°48 | 10°R47 | 12°13 | 25°13 | n.a. | S 19 |
| M20 | 7 43 23 | 27°21'53 | 8♏55 | 4°48 | 28°54 | 10°44 | 9°32 | 1°18 | 27°58 | 16°38 | 29°47 | 10°46 | 12°10 | 25°20 | n.a. | M20 |
| T 21 | 7 47 19 | 28°22'23 | 22°37 | 6°12 | 0♓ 7 | 11° 5 | 9°43 | 1°26 | 27°57 | 16°37 | 29°47 | 10°43 | 12° 7 | 25°26 | n.a. | T 21 |
| W22 | 7 51 16 | 29°22'52 | 6♐ 7 | 7°38 | 1°21 | 11°25 | 9°55 | 1°33 | 27°56 | 16°36 | 29°46 | 10°39 | 12° 4 | 25°33 | n.a. | W22 |
| T 23 | 7 55 13 | 0♒23'20 | 19°25 | 9° 4 | 2°34 | 11°45 | 10° 6 | 1°40 | 27°55 | 16°35 | 29°46 | 10°33 | 12° 1 | 25°40 | n.a. | T 23 |
| F 24 | 7 59 9 | 1°23'46 | 2♑31 | 10°32 | 3°47 | 12° 4 | 10°17 | 1°48 | 27°54 | 16°34 | 29°45 | 10°26 | 11°58 | 25°46 | n.a. | F 24 |
| S 25 | 8 3 6 | 2°24'10 | 15°23 | 12° 0 | 5° 0 | 12°23 | 10°28 | 1°55 | 27°54 | 16°33 | 29°45 | 10°19 | 11°54 | 25°53 | n.a. | S 25 |
| S 26 | 8 7 2 | 3°24'32 | 28° 2 | 13°30 | 6°13 | 12°41 | 10°39 | 2° 2 | 27°53 | 16°32 | 29°44 | 10°13 | 11°51 | 26° 0 | n.a. | S 26 |
| M27 | 8 10 59 | 4°24'53 | 10♒29 | 15° 1 | 7°26 | 12°59 | 10°49 | 2°10 | 27°52 | 16°31 | 29°44 | 10° 8 | 11°48 | 26° 6 | n.a. | M27 |
| T 28 | 8 14 55 | 5°25'12 | 22°42 | 16°33 | 8°39 | 13°17 | 11° 0 | 2°17 | 27°52 | 16°30 | 29°44 | 10° 4 | 11°45 | 26°13 | n.a. | T 28 |
| W29 | 8 18 52 | 6°25'29 | 4♓45 | 18° 6 | 9°52 | 13°34 | 11°11 | 2°24 | 27°51 | 16°29 | 29°43 | 10°D 3 | 11°42 | 26°20 | n.a. | W29 |
| T 30 | 8 22 48 | 7°25'44 | 16°39 | 19°40 | 11° 5 | 13°51 | 11°21 | 2°32 | 27°51 | 16°28 | 29°43 | 10° 3 | 11°39 | 26°26 | n.a. | T 30 |
| F 31 | 8 26 45 | 8♒25'57 | 28♓28 | 21♑14 | 12♓17 | 14♎ 7 | 11♐32 | 2♒39 | 27♉50 | 16♊27 | 29♉42 | 10♍ 4 | 11♍35 | 26♓33 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| W 1 | 23 s27 | 11 s31 | 1n20 | 20 s36 | 2n 6 | 20 s41 | 1 s38 | 0n46 | 2n17 | 21 s 5 | 0n25 | 21 s34 | 1 s 1 | 19n59 | 0 s 3 | 22n 1 | 1 s 3 | 13n51 | 6 s40 | 7n14 | 6n41 | 3 s33 | | | n.a. |
| T 2 | 23 23 | 8 10 | 0 16 | 20 51 | 1 56 | 20 21 | 1 37 | 0 37 | 2 18 | 21 8 | 0 25 | 21 32 | 1 1 | 19 58 | 0 3 | 22 1 | 1 3 | 13 51 | 6 40 | 7 15 | 6 42 | 3 31 | | | n.a. |
| F 3 | 23 18 | 4 32 | 0 s47 | 21 6 | 1 46 | 20 1 | 1 37 | 0 27 | 2 19 | 21 10 | 0 25 | 21 31 | 1 1 | 19 58 | 0 3 | 22 1 | 1 3 | 13 51 | 6 40 | 7 14 | 6 43 | 3 29 | | | n.a. |
| S 4 | 23 13 | 0 44 | 1 48 | 21 22 | 1 36 | 19 41 | 1 36 | 0 17 | 2 19 | 21 12 | 0 24 | 21 30 | 1 1 | 19 57 | 0 3 | 22 1 | 1 3 | 13 51 | 6 40 | 7 14 | 6 45 | 3 27 | | | n.a. |
| S 5 | 23 8 | 3n 6 | 2 45 | 21 37 | 1 26 | 19 20 | 1 35 | 0 8 | 2 20 | 21 14 | 0 24 | 21 28 | 1 1 | 19 57 | 0 3 | 22 1 | 1 3 | 13 51 | 6 40 | 7 14 | 6 46 | 3 25 | | | n.a. |
| M 6 | 23 2 | 6 51 | 3 35 | 21 52 | 1 16 | 18 59 | 1 35 | 0 s 2 | 2 20 | 21 17 | 0 24 | 21 27 | 1 1 | 19 57 | 0 3 | 22 1 | 1 3 | 13 51 | 6 39 | 7 14 | 6 47 | 3 23 | | | n.a. |
| T 7 | 22 56 | 10 23 | 4 16 | 22 8 | 1 6 | 18 37 | 1 34 | 0 11 | 2 21 | 21 19 | 0 24 | 21 25 | 1 1 | 19 56 | 0 3 | 22 0 | 1 3 | 13 51 | 6 39 | 7 16 | 6 48 | 3 21 | | | n.a. |
| W 8 | 22 49 | 13 32 | 4 46 | 22 22 | 0 56 | 18 14 | 1 33 | 0 20 | 2 22 | 21 21 | 0 24 | 21 24 | 1 1 | 19 56 | 0 3 | 22 0 | 1 3 | 13 51 | 6 39 | 7 18 | 6 49 | 3 20 | | | n.a. |
| T 9 | 22 42 | 16 9 | 5 3 | 22 37 | 0 47 | 17 51 | 1 32 | 0 29 | 2 22 | 21 23 | 0 24 | 21 22 | 1 1 | 19 56 | 0 3 | 22 0 | 1 3 | 13 51 | 6 39 | 7 21 | 6 51 | 3 18 | | | n.a. |
| F 10 | 22 34 | 17 59 | 5 5 | 22 51 | 0 37 | 17 27 | 1 31 | 0 38 | 2 23 | 21 25 | 0 24 | 21 21 | 1 1 | 19 55 | 0 3 | 22 0 | 1 3 | 13 51 | 6 39 | 7 24 | 6 52 | 3 16 | | | n.a. |
| S 11 | 22 26 | 18 53 | 4 49 | 23 4 | 0 28 | 17 4 | 1 29 | 0 47 | 2 24 | 21 27 | 0 24 | 21 19 | 1 1 | 19 55 | 0 3 | 22 0 | 1 3 | 13 51 | 6 39 | 7 28 | 6 53 | 3 14 | | | n.a. |
| S 12 | 22 18 | 18 40 | 4 16 | 23 16 | 0 19 | 16 39 | 1 28 | 0 56 | 2 24 | 21 29 | 0 24 | 21 18 | 1 1 | 19 55 | 0 3 | 22 0 | 1 3 | 13 51 | 6 38 | 7 31 | 6 54 | 3 12 | | | n.a. |
| M13 | 22 9 | 17 16 | 3 26 | 23 28 | 0 10 | 16 14 | 1 27 | 1 4 | 2 25 | 21 31 | 0 24 | 21 16 | 1 1 | 19 55 | 0 3 | 22 0 | 1 3 | 13 51 | 6 38 | 7 34 | 6 56 | 3 10 | | | n.a. |
| T 14 | 22 0 | 14 45 | 2 23 | 23 39 | 0 1 | 15 49 | 1 25 | 1 13 | 2 25 | 21 33 | 0 24 | 21 15 | 1 1 | 19 54 | 0 3 | 22 0 | 1 3 | 13 51 | 6 38 | 7 36 | 6 57 | 3 8 | | | n.a. |
| W15 | 21 50 | 11 18 | 1 10 | 23 49 | 0 s 8 | 15 23 | 1 24 | 1 21 | 2 26 | 21 35 | 0 24 | 21 13 | 1 1 | 19 54 | 0 3 | 22 0 | 1 3 | 13 51 | 6 38 | 7 37 | 6 58 | 3 6 | | | n.a. |
| T 16 | 21 40 | 7 10 | 0n 8 | 23 58 | 0 16 | 14 57 | 1 22 | 1 29 | 2 27 | 21 37 | 0 24 | 21 11 | 1 1 | 19 54 | 0 3 | 21 59 | 1 3 | 13 51 | 6 38 | 7 37 | 6 59 | 3 5 | | | n.a. |
| F 17 | 21 29 | 2 39 | 1 25 | 24 6 | 0 24 | 14 31 | 1 20 | 1 37 | 2 27 | 21 39 | 0 24 | 21 10 | 1 1 | 19 53 | 0 3 | 21 59 | 1 3 | 13 51 | 6 38 | 7 37 | 7 0 | 3 3 | | | n.a. |
| S 18 | 21 18 | 1 s59 | 2 36 | 24 13 | 0 32 | 14 4 | 1 19 | 1 45 | 2 28 | 21 40 | 0 24 | 21 8 | 1 1 | 19 53 | 0 3 | 21 59 | 1 3 | 13 51 | 6 37 | 7 37 | 7 2 | 3 1 | | | n.a. |
| S 19 | 21 7 | 6 26 | 3 37 | 24 19 | 0 39 | 13 37 | 1 17 | 1 53 | 2 28 | 21 42 | 0 24 | 21 7 | 1 2 | 19 53 | 0 3 | 21 59 | 1 3 | 13 51 | 6 37 | 7 36 | 7 3 | 2 59 | | | n.a. |
| M20 | 20 55 | 10 28 | 4 24 | 24 23 | 0 47 | 13 9 | 1 15 | 2 1 | 2 29 | 21 44 | 0 24 | 21 5 | 1 2 | 19 53 | 0 3 | 21 59 | 1 3 | 13 52 | 6 37 | 7 37 | 7 4 | 2 57 | | | n.a. |
| T 21 | 20 43 | 13 53 | 4 55 | 24 27 | 0 54 | 12 41 | 1 13 | 2 8 | 2 30 | 21 46 | 0 23 | 21 4 | 1 2 | 19 53 | 0 3 | 21 59 | 1 3 | 13 52 | 6 37 | 7 38 | 7 5 | 2 55 | | | n.a. |
| W22 | 20 30 | 16 30 | 5 9 | 24 29 | 1 0 | 12 13 | 1 11 | 2 16 | 2 30 | 21 48 | 0 23 | 21 2 | 1 2 | 19 52 | 0 3 | 21 59 | 1 2 | 13 52 | 6 37 | 7 39 | 7 7 | 2 53 | | | n.a. |
| T 23 | 20 17 | 18 11 | 5 6 | 24 30 | 1 7 | 11 44 | 1 9 | 2 23 | 2 31 | 21 49 | 0 23 | 21 0 | 1 2 | 19 52 | 0 3 | 21 59 | 1 2 | 13 52 | 6 37 | 7 42 | 7 8 | 2 51 | | | n.a. |
| F 24 | 20 4 | 18 53 | 4 47 | 24 30 | 1 13 | 11 16 | 1 7 | 2 30 | 2 31 | 21 51 | 0 23 | 20 59 | 1 2 | 19 52 | 0 3 | 21 59 | 1 2 | 13 52 | 6 36 | 7 44 | 7 9 | 2 50 | | | n.a. |
| S 25 | 19 50 | 18 36 | 4 14 | 24 28 | 1 19 | 10 47 | 1 4 | 2 37 | 2 32 | 21 53 | 0 23 | 20 57 | 1 2 | 19 52 | 0 3 | 21 59 | 1 2 | 13 52 | 6 36 | 7 47 | 7 10 | 2 48 | | | n.a. |
| S 26 | 19 36 | 17 22 | 3 29 | 24 25 | 1 25 | 10 17 | 1 2 | 2 44 | 2 33 | 21 54 | 0 23 | 20 56 | 1 2 | 19 52 | 0 3 | 21 59 | 1 2 | 13 52 | 6 36 | 7 49 | 7 11 | 2 46 | | | n.a. |
| M27 | 19 22 | 15 20 | 2 34 | 24 20 | 1 30 | 9 48 | 1 0 | 2 50 | 2 33 | 21 56 | 0 23 | 20 54 | 1 2 | 19 52 | 0 2 | 21 59 | 1 2 | 13 52 | 6 36 | 7 51 | 7 13 | 2 44 | | | n.a. |
| T 28 | 19 7 | 12 38 | 1 33 | 24 14 | 1 35 | 9 18 | 0 57 | 2 57 | 2 34 | 21 57 | 0 23 | 20 52 | 1 2 | 19 52 | 0 2 | 21 59 | 1 2 | 13 52 | 6 36 | 7 52 | 7 14 | 2 42 | | | n.a. |
| W29 | 18 52 | 9 25 | 0 29 | 24 6 | 1 39 | 8 48 | 0 55 | 3 3 | 2 34 | 21 59 | 0 23 | 20 51 | 1 2 | 19 51 | 0 2 | 21 58 | 1 2 | 13 52 | 6 35 | 7 53 | 7 15 | 2 40 | | | n.a. |
| T 30 | 18 37 | 5 53 | 0 s36 | 23 57 | 1 44 | 8 18 | 0 52 | 3 9 | 2 35 | 22 0 | 0 23 | 20 49 | 1 2 | 19 51 | 0 2 | 21 58 | 1 2 | 13 52 | 6 35 | 7 53 | 7 16 | 2 38 | | | n.a. |
| F 31 | 18 s21 | 2 s 8 | 1 s39 | 23 s46 | 1 s48 | 7 s47 | 0 s50 | 3 s15 | 2n35 | 22 s 2 | 0n23 | 20 s48 | 1 s 2 | 19n51 | 0 s 2 | 21n58 | 1 s 2 | 13n52 | 6 s35 | 7n53 | 7n18 | 2 s36 | | | n.a. |

Julian Day Number = 1696220.5, Delta T = 03h07m55s
Ecliptic obliquity = 23°42'03, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°01'00, Lahiri = - 4°54'00 Julian Calendar 1 Jan. 69 BCE == Greg. Calendar 30 Dec. 070 BCE

The year -68 astronomical counting style corresponds to year 069 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 69 BCE
# geocentric

## FEBRUARY 69 BCE (-68) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 30 42 | 9♒26'07 | 10♈15 | 22♑50 | 13♓30 | 14♎23 | 11♐42 | 2♒46 | 27°R50 | 16°R26 | 29°R42 | 10♍ 6 | 11♍32 | 26♓40 | n.a. | S 1 |
| S 2 | 8 34 38 | 10°26'16 | 22° 5 | 24°27 | 14°43 | 14°39 | 11°52 | 2°53 | 27♉50 | 16♊25 | 29♉42 | 10° 8 | 11°29 | 26°46 | n.a. | S 2 |
| M 3 | 8 38 35 | 11°26'22 | 4♉ 3 | 26° 6 | 15°55 | 14°54 | 12° 2 | 3° 1 | 27°49 | 16°24 | 29°41 | 10° 9 | 11°26 | 26°53 | n.a. | M 3 |
| T 4 | 8 42 31 | 12°26'26 | 16°13 | 27°45 | 17° 8 | 15° 8 | 12°12 | 3° 8 | 27°49 | 16°23 | 29°41 | 10°R 9 | 11°23 | 26°59 | n.a. | T 4 |
| W 5 | 8 46 28 | 13°26'28 | 28°40 | 29°25 | 18°20 | 15°22 | 12°22 | 3°15 | 27°49 | 16°23 | 29°41 | 10° 8 | 11°19 | 27° 6 | n.a. | W 5 |
| T 6 | 8 50 24 | 14°26'27 | 11♊29 | 1♒ 6 | 19°32 | 15°36 | 12°32 | 3°23 | 27°49 | 16°22 | 29°41 | 10° 6 | 11°16 | 27°13 | n.a. | T 6 |
| F 7 | 8 54 21 | 15°26'25 | 24°43 | 2°49 | 20°44 | 15°49 | 12°41 | 3°30 | 27°D49 | 16°21 | 29°41 | 10° 3 | 11°13 | 27°19 | n.a. | F 7 |
| S 8 | 8 58 17 | 16°26'20 | 8♋24 | 4°32 | 21°56 | 16° 1 | 12°51 | 3°37 | 27°49 | 16°20 | 29°40 | 9°59 | 11°10 | 27°26 | n.a. | S 8 |
| S 9 | 9 2 14 | 17°26'13 | 22°30 | 6°17 | 23° 8 | 16°13 | 13° 0 | 3°44 | 27°49 | 16°20 | 29°40 | 9°56 | 11° 7 | 27°33 | n.a. | S 9 |
| M10 | 9 6 10 | 18°26'03 | 6♌58 | 8° 3 | 24°20 | 16°24 | 13° 9 | 3°51 | 27°49 | 16°19 | 29°40 | 9°53 | 11° 4 | 27°39 | n.a. | M10 |
| T 11 | 9 10 7 | 19°25'52 | 21°44 | 9°50 | 25°32 | 16°35 | 13°19 | 3°58 | 27°49 | 16°19 | 29°40 | 9°51 | 11° 0 | 27°46 | n.a. | T 11 |
| W12 | 9 14 4 | 20°25'38 | 6♍39 | 11°38 | 26°44 | 16°45 | 13°28 | 4° 6 | 27°50 | 16°18 | 29°40 | 9°D51 | 10°57 | 27°53 | n.a. | W12 |
| T 13 | 9 18 0 | 21°25'22 | 21°35 | 13°27 | 27°55 | 16°55 | 13°37 | 4°13 | 27°50 | 16°17 | 29°40 | 9°51 | 10°54 | 27°59 | n.a. | T 13 |
| F 14 | 9 21 57 | 22°25'05 | 6♎25 | 15°18 | 29° 7 | 17° 4 | 13°45 | 4°20 | 27°50 | 16°17 | 29°40 | 9°52 | 10°51 | 28° 6 | n.a. | F 14 |
| S 15 | 9 25 53 | 23°24'45 | 21° 3 | 17° 9 | 0♈18 | 17°13 | 13°54 | 4°27 | 27°51 | 16°17 | 29°D40 | 9°53 | 10°48 | 28°13 | n.a. | S 15 |
| S 16 | 9 29 50 | 24°24'24 | 5♏23 | 19° 2 | 1°30 | 17°20 | 14° 3 | 4°34 | 27°51 | 16°16 | 29°40 | 9°54 | 10°45 | 28°19 | n.a. | S 16 |
| M17 | 9 33 46 | 25°24'01 | 19°24 | 20°56 | 2°41 | 17°28 | 14°11 | 4°41 | 27°51 | 16°16 | 29°40 | 9°R55 | 10°41 | 28°26 | n.a. | M17 |
| T 18 | 9 37 43 | 26°23'36 | 3♐ 5 | 22°51 | 3°52 | 17°34 | 14°19 | 4°48 | 27°52 | 16°15 | 29°40 | 9°55 | 10°38 | 28°33 | n.a. | T 18 |
| W19 | 9 41 39 | 27°23'10 | 16°26 | 24°47 | 5° 3 | 17°40 | 14°28 | 4°55 | 27°53 | 16°15 | 29°40 | 9°54 | 10°35 | 28°39 | n.a. | W19 |
| T 20 | 9 45 36 | 28°22'41 | 29°29 | 26°45 | 6°14 | 17°45 | 14°36 | 5° 2 | 27°53 | 16°15 | 29°40 | 9°53 | 10°32 | 28°46 | n.a. | T 20 |
| F 21 | 9 49 33 | 29°22'11 | 12♑16 | 28°43 | 7°25 | 17°50 | 14°44 | 5° 9 | 27°54 | 16°14 | 29°40 | 9°51 | 10°29 | 28°53 | n.a. | F 21 |
| S 22 | 9 53 29 | 0♓21'38 | 24°49 | 0♓43 | 8°36 | 17°54 | 14°51 | 5°16 | 27°55 | 16°14 | 29°40 | 9°50 | 10°25 | 28°59 | n.a. | S 22 |
| S 23 | 9 57 26 | 1°21'04 | 7♒10 | 2°43 | 9°46 | 17°57 | 14°59 | 5°23 | 27°56 | 16°14 | 29°41 | 9°49 | 10°22 | 29° 6 | n.a. | S 23 |
| M24 | 10 1 22 | 2°20'28 | 19°20 | 4°44 | 10°57 | 18° 0 | 15° 6 | 5°29 | 27°56 | 16°14 | 29°41 | 9°48 | 10°19 | 29°13 | n.a. | M24 |
| T 25 | 10 5 19 | 3°19'49 | 1♓21 | 6°45 | 12° 7 | 18° 1 | 15°14 | 5°36 | 27°57 | 16°14 | 29°41 | 9°48 | 10°16 | 29°19 | n.a. | T 25 |
| W26 | 10 9 15 | 4°19'09 | 13°16 | 8°47 | 13°18 | 18° 3 | 15°21 | 5°43 | 27°58 | 16°14 | 29°41 | 9°D47 | 10°13 | 29°26 | n.a. | W26 |
| T 27 | 10 13 12 | 5°18'26 | 25° 6 | 10°50 | 14°28 | 18°R 3 | 15°28 | 5°50 | 27°59 | 16°13 | 29°41 | 9°48 | 10°10 | 29°32 | n.a. | T 27 |
| F 28 | 10 17 8 | 6°17'41 | 6♈54 | 12°52 | 15°38 | 18° 2 | 15°35 | 5°56 | 28° 0 | 16°13 | 29°42 | 9°48 | 10° 6 | 29°39 | n.a. | F 28 |
| S 29 | 10 21 5 | 7♓16'53 | 18♈42 | 14♓54 | 16♈48 | 18♎ 1 | 15♐42 | 6♒ 3 | 28♉ 1 | 16°D13 | 29♉42 | 9♍48 | 10♍ 3 | 29♓46 | n.a. | S 29 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 18s 5 | 1n41 | 2s38 | 23s34 | 1s51 | 7s17 | 0s47 | 3s20 | 2n36 | 22s 3 | 0n23 | 20s46 | 1s 2 | 19n51 | 0s 2 | 21n58 | 1s 2 | 13n53 | 6s35 | 7n52 | 7n19 | 2s34 | | n.a. |
| S 2 | 17 49 | 5 26 | 3 31 | 23 20 | 1 54 | 6 46 | 0 44 | 3 26 | 2 36 | 22 5 | 0 23 | 20 44 | 1 2 | 19 51 | 0 2 | 21 58 | 1 2 | 13 53 | 6 35 | 7 51 | 7 20 | 2 33 | | n.a. |
| M 3 | 17 32 | 9 1 | 4 15 | 23 5 | 1 57 | 6 15 | 0 41 | 3 31 | 2 37 | 22 6 | 0 23 | 20 43 | 1 3 | 19 51 | 0 2 | 21 58 | 1 2 | 13 53 | 6 34 | 7 51 | 7 21 | 2 31 | | n.a. |
| T 4 | 17 15 | 12 16 | 4 48 | 22 48 | 2 0 | 5 44 | 0 39 | 3 36 | 2 37 | 22 8 | 0 23 | 20 41 | 1 3 | 19 51 | 0 2 | 21 58 | 1 2 | 13 53 | 6 34 | 7 51 | 7 22 | 2 29 | | n.a. |
| W 5 | 16 58 | 15 4 | 5 8 | 22 29 | 2 2 | 5 13 | 0 36 | 3 41 | 2 38 | 22 9 | 0 23 | 20 39 | 1 3 | 19 51 | 0 2 | 21 58 | 1 2 | 13 53 | 6 34 | 7 51 | 7 24 | 2 27 | | n.a. |
| T 6 | 16 41 | 17 13 | 5 15 | 22 8 | 2 4 | 4 41 | 0 33 | 3 46 | 2 38 | 22 10 | 0 23 | 20 38 | 1 3 | 19 51 | 0 2 | 21 58 | 1 2 | 13 53 | 6 34 | 7 52 | 7 25 | 2 25 | | n.a. |
| F 7 | 16 23 | 18 31 | 5 5 | 21 46 | 2 5 | 4 10 | 0 30 | 3 51 | 2 39 | 22 12 | 0 23 | 20 36 | 1 3 | 19 51 | 0 2 | 21 58 | 1 2 | 13 53 | 6 34 | 7 53 | 7 26 | 2 23 | | n.a. |
| S 8 | 16 5 | 18 49 | 4 37 | 21 22 | 2 6 | 3 38 | 0 27 | 3 55 | 2 39 | 22 13 | 0 22 | 20 35 | 1 3 | 19 51 | 0 2 | 21 58 | 1 2 | 13 54 | 6 33 | 7 54 | 7 27 | 2 21 | | n.a. |
| S 9 | 15 47 | 17 59 | 3 52 | 20 56 | 2 6 | 3 7 | 0 23 | 3 59 | 2 40 | 22 14 | 0 22 | 20 33 | 1 3 | 19 51 | 0 2 | 21 58 | 1 2 | 13 54 | 6 33 | 7 56 | 7 29 | 2 19 | | n.a. |
| M10 | 15 28 | 15 58 | 2 52 | 20 29 | 2 6 | 2 35 | 0 20 | 4 3 | 2 40 | 22 15 | 0 22 | 20 31 | 1 3 | 19 51 | 0 2 | 21 58 | 1 2 | 13 54 | 6 33 | 7 57 | 7 30 | 2 17 | | n.a. |
| T 11 | 15 9 | 12 52 | 1 38 | 20 0 | 2 6 | 2 3 | 0 17 | 4 7 | 2 41 | 22 17 | 0 22 | 20 30 | 1 3 | 19 51 | 0 2 | 21 58 | 1 2 | 13 54 | 6 33 | 7 57 | 7 31 | 2 16 | | n.a. |
| W12 | 14 50 | 8 54 | 0 18 | 19 29 | 2 5 | 1 31 | 0 14 | 4 11 | 2 41 | 22 18 | 0 22 | 20 28 | 1 3 | 19 51 | 0 2 | 21 58 | 1 2 | 13 54 | 6 33 | 7 58 | 7 32 | 2 14 | | n.a. |
| T 13 | 14 31 | 4 22 | 1n 5 | 18 56 | 2 3 | 1 0 | 0 10 | 4 14 | 2 41 | 22 19 | 0 22 | 20 27 | 1 3 | 19 51 | 0 2 | 21 58 | 1 2 | 13 54 | 6 32 | 7 58 | 7 33 | 2 12 | | n.a. |
| F 14 | 14 11 | 0s25 | 2 22 | 18 21 | 2 1 | 0 28 | 0 7 | 4 17 | 2 42 | 22 20 | 0 22 | 20 25 | 1 4 | 19 51 | 0 2 | 21 58 | 1 2 | 13 55 | 6 32 | 7 57 | 7 35 | 2 10 | | n.a. |
| S 15 | 13 52 | 5 5 | 3 29 | 17 45 | 1 59 | 0n 4 | 0 4 | 4 20 | 2 42 | 22 21 | 0 22 | 20 23 | 1 4 | 19 51 | 0 2 | 21 58 | 1 2 | 13 55 | 6 32 | 7 57 | 7 36 | 2 8 | | n.a. |
| S 16 | 13 32 | 9 21 | 4 21 | 17 6 | 1 56 | 0 36 | 0 0 | 4 23 | 2 42 | 22 22 | 0 22 | 20 22 | 1 4 | 19 52 | 0 2 | 21 58 | 1 1 | 13 55 | 6 32 | 7 56 | 7 37 | 2 6 | | n.a. |
| M17 | 13 12 | 13 0 | 4 57 | 16 26 | 1 52 | 1 8 | 0n 3 | 4 25 | 2 43 | 22 23 | 0 22 | 20 20 | 1 4 | 19 52 | 0 2 | 21 58 | 1 1 | 13 55 | 6 32 | 7 56 | 7 38 | 2 4 | | n.a. |
| T 18 | 12 51 | 15 51 | 5 15 | 15 45 | 1 48 | 1 39 | 0 7 | 4 28 | 2 43 | 22 24 | 0 22 | 20 18 | 1 4 | 19 52 | 0 2 | 21 58 | 1 1 | 13 55 | 6 31 | 7 56 | 7 40 | 2 2 | | n.a. |
| W19 | 12 31 | 17 47 | 5 15 | 15 1 | 1 43 | 2 11 | 0 10 | 4 30 | 2 43 | 22 25 | 0 22 | 20 17 | 1 4 | 19 52 | 0 2 | 21 58 | 1 1 | 13 56 | 6 31 | 7 56 | 7 41 | 2 0 | | n.a. |
| T 20 | 12 10 | 18 43 | 4 59 | 14 16 | 1 38 | 2 43 | 0 14 | 4 32 | 2 43 | 22 26 | 0 22 | 20 15 | 1 4 | 19 52 | 0 2 | 21 58 | 1 1 | 13 56 | 6 31 | 7 57 | 7 42 | 1 58 | | n.a. |
| F 21 | 11 49 | 18 41 | 4 28 | 13 29 | 1 32 | 3 14 | 0 17 | 4 33 | 2 44 | 22 27 | 0 22 | 20 14 | 1 4 | 19 52 | 0 2 | 21 58 | 1 1 | 13 56 | 6 31 | 7 57 | 7 43 | 1 57 | | n.a. |
| S 22 | 11 28 | 17 43 | 3 45 | 12 41 | 1 26 | 3 46 | 0 21 | 4 35 | 2 44 | 22 28 | 0 22 | 20 12 | 1 4 | 19 53 | 0 2 | 21 58 | 1 1 | 13 56 | 6 31 | 7 58 | 7 44 | 1 55 | | n.a. |
| S 23 | 11 7 | 15 55 | 2 52 | 11 51 | 1 19 | 4 17 | 0 25 | 4 36 | 2 44 | 22 29 | 0 22 | 20 10 | 1 5 | 19 53 | 0 2 | 21 58 | 1 1 | 13 57 | 6 31 | 7 58 | 7 46 | 1 53 | | n.a. |
| M24 | 10 45 | 13 26 | 1 51 | 10 59 | 1 11 | 4 49 | 0 28 | 4 37 | 2 44 | 22 30 | 0 22 | 20 9 | 1 5 | 19 53 | 0 2 | 21 58 | 1 1 | 13 57 | 6 30 | 7 59 | 7 47 | 1 51 | | n.a. |
| T 25 | 10 24 | 10 23 | 0 47 | 10 6 | 1 3 | 5 20 | 0 32 | 4 37 | 2 44 | 22 31 | 0 22 | 20 7 | 1 5 | 19 53 | 0 2 | 21 58 | 1 1 | 13 57 | 6 30 | 7 59 | 7 48 | 1 49 | | n.a. |
| W26 | 10 2 | 6 57 | 0s19 | 9 12 | 0 55 | 5 51 | 0 36 | 4 38 | 2 44 | 22 32 | 0 22 | 20 6 | 1 5 | 19 53 | 0 2 | 21 58 | 1 1 | 13 57 | 6 30 | 7 59 | 7 49 | 1 47 | | n.a. |
| T 27 | 9 40 | 3 15 | 1 24 | 8 17 | 0 46 | 6 22 | 0 40 | 4 38 | 2 44 | 22 33 | 0 21 | 20 4 | 1 5 | 19 54 | 0 2 | 21 58 | 1 1 | 13 58 | 6 30 | 7 59 | 7 50 | 1 45 | | n.a. |
| F 28 | 9 18 | 0n33 | 2 25 | 7 21 | 0 36 | 6 53 | 0 43 | 4 38 | 2 44 | 22 33 | 0 21 | 20 3 | 1 5 | 19 54 | 0 2 | 21 58 | 1 1 | 13 58 | 6 30 | 7 59 | 7 52 | 1 43 | | n.a. |
| S 29 | 8s56 | 4n19 | 3s20 | 6s24 | 0s26 | 7n24 | 0n47 | 4s37 | 2n44 | 22s34 | 0n21 | 20s 1 | 1s 5 | 19n54 | 0s 2 | 21n58 | 1s 1 | 13n58 | 6s29 | 7n59 | 7n53 | 1s41 | | n.a. |

Julian Day Number = 1696251.5, Delta T = 03h07m54s
Ecliptic obliquity = 23°42'03, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°00'56, Lahiri = - 4°53'56 Julian Calendar 1 Feb. 69 BCE == Greg. Calendar 30 Jan. 069 BCE

The year -68 astronomical counting style corresponds to year 069 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 69 BCE
# geocentric

## MARCH 69 BCE (-68) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 25 1 | 8♓16'03 | 0♉33 | 16♓56 | 17♈58 | 17°R59 | 15♐48 | 6♒10 | 28♉ 3 | 16♊13 | 29♉42 | 9♍49 | 10♍ 0 | 29♓52 | n.a. | S 1 |
| M 2 | 10 28 58 | 9°15'11 | 12°32 | 18°57 | 19° 7 | 17♎57 | 15°55 | 6°16 | 28° 4 | 16°14 | 29°43 | 9°49 | 9°57 | 29°59 | n.a. | M 2 |
| T 3 | 10 32 55 | 10°14'17 | 24°42 | 20°56 | 20°17 | 17°53 | 16° 1 | 6°23 | 28° 5 | 16°14 | 29°43 | 9°R49 | 9°54 | 0♈ 6 | n.a. | T 3 |
| W 4 | 10 36 51 | 11°13'20 | 7♊ 7 | 22°54 | 21°26 | 17°49 | 16° 7 | 6°29 | 28° 6 | 16°14 | 29°44 | 9°D49 | 9°50 | 0°12 | n.a. | W 4 |
| T 5 | 10 40 48 | 12°12'21 | 19°51 | 24°51 | 22°36 | 17°44 | 16°13 | 6°36 | 28° 8 | 16°14 | 29°44 | 9°49 | 9°47 | 0°19 | n.a. | T 5 |
| F 6 | 10 44 44 | 13°11'20 | 2♋58 | 26°45 | 23°45 | 17°38 | 16°19 | 6°42 | 28° 9 | 16°14 | 29°44 | 9°49 | 9°44 | 0°26 | n.a. | F 6 |
| S 7 | 10 48 41 | 14°10'16 | 16°32 | 28°36 | 24°54 | 17°32 | 16°25 | 6°48 | 28°11 | 16°14 | 29°45 | 9°49 | 9°41 | 0°32 | n.a. | S 7 |
| S 8 | 10 52 37 | 15° 9'10 | 0♌32 | 0♈24 | 26° 3 | 17°25 | 16°30 | 6°55 | 28°12 | 16°15 | 29°45 | 9°50 | 9°38 | 0°39 | n.a. | S 8 |
| M 9 | 10 56 34 | 16° 8'01 | 14°58 | 2° 9 | 27°11 | 17°17 | 16°36 | 7° 1 | 28°14 | 16°15 | 29°46 | 9°50 | 9°35 | 0°46 | n.a. | M 9 |
| T 10 | 11 0 30 | 17° 6'50 | 29°47 | 3°50 | 28°20 | 17° 8 | 16°41 | 7° 7 | 28°15 | 16°15 | 29°46 | 9°51 | 9°31 | 0°52 | n.a. | T 10 |
| W11 | 11 4 27 | 18° 5'37 | 14♍51 | 5°28 | 29°28 | 16°59 | 16°46 | 7°13 | 28°17 | 16°16 | 29°47 | 9°R51 | 9°28 | 0°59 | n.a. | W11 |
| T 12 | 11 8 24 | 19° 4'21 | 0♎ 3 | 7° 1 | 0♉37 | 16°48 | 16°51 | 7°19 | 28°19 | 16°16 | 29°47 | 9°50 | 9°25 | 1° 6 | n.a. | T 12 |
| F 13 | 11 12 20 | 20° 3'04 | 15°13 | 8°29 | 1°45 | 16°37 | 16°55 | 7°25 | 28°20 | 16°16 | 29°48 | 9°49 | 9°22 | 1°12 | n.a. | F 13 |
| S 14 | 11 16 17 | 21° 1'45 | 0♏10 | 9°52 | 2°53 | 16°26 | 17° 0 | 7°31 | 28°22 | 16°17 | 29°49 | 9°48 | 9°19 | 1°19 | n.a. | S 14 |
| S 15 | 11 20 13 | 22° 0'24 | 14°49 | 11°11 | 4° 0 | 16°13 | 17° 4 | 7°37 | 28°24 | 16°17 | 29°49 | 9°47 | 9°16 | 1°26 | n.a. | S 15 |
| M16 | 11 24 10 | 22°59'01 | 29° 4 | 12°24 | 5° 8 | 16° 0 | 17° 9 | 7°43 | 28°26 | 16°18 | 29°50 | 9°46 | 9°12 | 1°32 | n.a. | M16 |
| T 17 | 11 28 6 | 23°57'36 | 12♐53 | 13°32 | 6°15 | 15°46 | 17°13 | 7°49 | 28°28 | 16°19 | 29°51 | 9°45 | 9° 9 | 1°39 | n.a. | T 17 |
| W18 | 11 32 3 | 24°56'10 | 26°17 | 14°34 | 7°23 | 15°31 | 17°16 | 7°55 | 28°30 | 16°19 | 29°51 | 9°D44 | 9° 6 | 1°46 | n.a. | W18 |
| T 19 | 11 35 59 | 25°54'42 | 9♑16 | 15°31 | 8°30 | 15°16 | 17°20 | 8° 0 | 28°32 | 16°20 | 29°52 | 9°45 | 9° 3 | 1°52 | n.a. | T 19 |
| F 20 | 11 39 56 | 26°53'12 | 21°54 | 16°22 | 9°36 | 15° 0 | 17°24 | 8° 6 | 28°34 | 16°20 | 29°53 | 9°46 | 9° 0 | 1°59 | n.a. | F 20 |
| S 21 | 11 43 53 | 27°51'41 | 4♒16 | 17° 8 | 10°43 | 14°44 | 17°27 | 8°12 | 28°36 | 16°21 | 29°54 | 9°47 | 8°56 | 2° 6 | n.a. | S 21 |
| S 22 | 11 47 49 | 28°50'08 | 16°25 | 17°47 | 11°50 | 14°27 | 17°30 | 8°17 | 28°38 | 16°22 | 29°54 | 9°49 | 8°53 | 2°12 | n.a. | S 22 |
| M23 | 11 51 46 | 29°48'32 | 28°23 | 18°21 | 12°56 | 14° 9 | 17°33 | 8°23 | 28°40 | 16°23 | 29°55 | 9°50 | 8°50 | 2°19 | n.a. | M23 |
| T 24 | 11 55 42 | 0♈46'55 | 10♓16 | 18°48 | 14° 2 | 13°51 | 17°36 | 8°28 | 28°43 | 16°23 | 29°56 | 9°R50 | 8°47 | 2°26 | n.a. | T 24 |
| W25 | 11 59 39 | 1°45'17 | 22° 5 | 19°10 | 15° 8 | 13°32 | 17°38 | 8°34 | 28°45 | 16°24 | 29°57 | 9°50 | 8°44 | 2°32 | n.a. | W25 |
| T 26 | 12 3 35 | 2°43'36 | 3♈52 | 19°26 | 16°14 | 13°13 | 17°41 | 8°39 | 28°47 | 16°25 | 29°58 | 9°48 | 8°41 | 2°39 | n.a. | T 26 |
| F 27 | 12 7 32 | 3°41'53 | 15°41 | 19°36 | 17°19 | 12°53 | 17°43 | 8°44 | 28°49 | 16°26 | 29°58 | 9°45 | 8°37 | 2°45 | n.a. | F 27 |
| S 28 | 12 11 28 | 4°40'09 | 27°32 | 19°R40 | 18°24 | 12°33 | 17°45 | 8°49 | 28°52 | 16°27 | 29°59 | 9°41 | 8°34 | 2°52 | n.a. | S 28 |
| S 29 | 12 15 25 | 5°38'23 | 9♉29 | 19°39 | 19°29 | 12°12 | 17°47 | 8°54 | 28°54 | 16°28 | 0♊ 0 | 9°37 | 8°31 | 2°59 | n.a. | S 29 |
| M30 | 12 19 21 | 6°36'34 | 21°33 | 19°33 | 20°34 | 11°52 | 17°49 | 8°59 | 28°57 | 16°29 | 0° 1 | 9°32 | 8°28 | 3° 5 | n.a. | M30 |
| T 31 | 12 23 18 | 7♈34'44 | 3♊48 | 19♈21 | 21♉39 | 11♎31 | 17♐50 | 9♒ 4 | 28♉59 | 16♊30 | 0♊ 2 | 9♍28 | 8♍25 | 3♈12 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| S 1 | 8s34 | 7n57 | 4s 7 | 5s27 | 0s15 | 7n54 | 0n51 | 4s37 | 2n44 | 22s35 | 0n21 | 20s 0 | 1s 5 | 19n54 | 0s 2 | 21n58 | 1s 1 | 13n58 | 6s29 | 7n58 | 7n54 | 1s39 | | | n.a. |
| M 2 | 8 11 | 11 17 | 4 43 | 4 29 | 0 4 | 8 24 | 0 55 | 4 36 | 2 44 | 22 36 | 0 21 | 19 58 | 1 5 | 19 55 | 0 2 | 21 58 | 1 1 | 13 59 | 6 29 | 7 58 | 7 55 | 1 37 | | | n.a. |
| T 3 | 7 49 | 14 11 | 5 7 | 3 31 | 0n 7 | 8 55 | 0 58 | 4 35 | 2 43 | 22 36 | 0 21 | 19 56 | 1 6 | 19 55 | 0 2 | 21 58 | 1 1 | 13 59 | 6 29 | 7 58 | 7 57 | 1 36 | | | n.a. |
| W 4 | 7 26 | 16 31 | 5 18 | 2 34 | 0 19 | 9 25 | 1 2 | 4 33 | 2 43 | 22 37 | 0 21 | 19 55 | 1 6 | 19 55 | 0 2 | 21 58 | 1 1 | 13 59 | 6 29 | 7 58 | 7 58 | 1 34 | | | n.a. |
| T 5 | 7 3 | 18 6 | 5 13 | 1 36 | 0 30 | 9 54 | 1 6 | 4 32 | 2 43 | 22 38 | 0 21 | 19 53 | 1 6 | 19 56 | 0 2 | 21 58 | 1 1 | 13 59 | 6 28 | 7 58 | 7 59 | 1 32 | | | n.a. |
| F 6 | 6 41 | 18 48 | 4 53 | 0 40 | 0 42 | 10 24 | 1 10 | 4 30 | 2 43 | 22 38 | 0 21 | 19 52 | 1 6 | 19 56 | 0 2 | 21 59 | 1 1 | 14 0 | 6 28 | 7 58 | 8 0 | 1 30 | | | n.a. |
| S 7 | 6 18 | 18 27 | 4 15 | 0n16 | 0 54 | 10 53 | 1 14 | 4 28 | 2 42 | 22 39 | 0 21 | 19 50 | 1 6 | 19 56 | 0 2 | 21 59 | 1 1 | 14 0 | 6 28 | 7 58 | 8 1 | 1 28 | | | n.a. |
| S 8 | 5 55 | 16 58 | 3 22 | 1 10 | 1 6 | 11 22 | 1 17 | 4 25 | 2 42 | 22 40 | 0 21 | 19 49 | 1 6 | 19 57 | 0 2 | 21 59 | 1 1 | 14 0 | 6 28 | 7 58 | 8 3 | 1 26 | | | n.a. |
| M 9 | 5 32 | 14 23 | 2 14 | 2 3 | 1 18 | 11 51 | 1 21 | 4 23 | 2 41 | 22 40 | 0 21 | 19 47 | 1 6 | 19 57 | 0 2 | 21 59 | 1 0 | 14 1 | 6 28 | 7 58 | 8 4 | 1 24 | | | n.a. |
| T 10 | 5 9 | 10 48 | 0 56 | 2 55 | 1 30 | 12 19 | 1 25 | 4 20 | 2 41 | 22 41 | 0 21 | 19 46 | 1 7 | 19 57 | 0 2 | 21 59 | 1 0 | 14 1 | 6 27 | 7 58 | 8 5 | 1 22 | | | n.a. |
| W11 | 4 45 | 6 27 | 0n28 | 3 44 | 1 41 | 12 47 | 1 29 | 4 17 | 2 40 | 22 41 | 0 21 | 19 45 | 1 7 | 19 58 | 0 2 | 21 59 | 1 0 | 14 1 | 6 27 | 7 58 | 8 6 | 1 20 | | | n.a. |
| T 12 | 4 22 | 1 39 | 1 50 | 4 31 | 1 52 | 13 15 | 1 33 | 4 14 | 2 39 | 22 42 | 0 21 | 19 43 | 1 7 | 19 58 | 0 2 | 21 59 | 1 0 | 14 1 | 6 27 | 7 58 | 8 7 | 1 18 | | | n.a. |
| F 13 | 3 59 | 3s14 | 3 4 | 5 16 | 2 2 | 13 43 | 1 36 | 4 10 | 2 38 | 22 42 | 0 21 | 19 42 | 1 7 | 19 59 | 0 2 | 21 59 | 1 0 | 14 2 | 6 27 | 7 58 | 8 9 | 1 16 | | | n.a. |
| S 14 | 3 36 | 7 50 | 4 5 | 5 58 | 2 12 | 14 10 | 1 40 | 4 6 | 2 38 | 22 43 | 0 21 | 19 40 | 1 7 | 19 59 | 0 2 | 21 59 | 1 0 | 14 2 | 6 27 | 7 59 | 8 10 | 1 14 | | | n.a. |
| S 15 | 3 12 | 11 53 | 4 48 | 6 38 | 2 22 | 14 37 | 1 44 | 4 2 | 2 37 | 22 43 | 0 21 | 19 39 | 1 7 | 19 59 | 0 2 | 21 59 | 1 0 | 14 2 | 6 26 | 7 59 | 8 11 | 1 13 | | | n.a. |
| M16 | 2 49 | 15 6 | 5 12 | 7 15 | 2 30 | 15 3 | 1 47 | 3 58 | 2 36 | 22 44 | 0 20 | 19 37 | 1 7 | 20 0 | 0 2 | 21 59 | 1 0 | 14 3 | 6 26 | 8 0 | 8 12 | 1 11 | | | n.a. |
| T 17 | 2 25 | 17 21 | 5 17 | 7 49 | 2 38 | 15 30 | 1 51 | 3 54 | 2 35 | 22 44 | 0 20 | 19 36 | 1 8 | 20 0 | 0 2 | 22 0 | 1 0 | 14 3 | 6 26 | 8 0 | 8 13 | 1 9 | | | n.a. |
| W18 | 2 2 | 18 35 | 5 4 | 8 20 | 2 45 | 15 56 | 1 55 | 3 49 | 2 34 | 22 45 | 0 20 | 19 35 | 1 8 | 20 1 | 0 2 | 22 0 | 1 0 | 14 3 | 6 26 | 8 0 | 8 15 | 1 7 | | | n.a. |
| T 19 | 1 39 | 18 47 | 4 36 | 8 48 | 2 51 | 16 21 | 1 58 | 3 44 | 2 32 | 22 45 | 0 20 | 19 33 | 1 8 | 20 1 | 0 2 | 22 0 | 1 0 | 14 4 | 6 26 | 8 0 | 8 16 | 1 5 | | | n.a. |
| F 20 | 1 15 | 18 1 | 3 55 | 9 13 | 2 56 | 16 46 | 2 2 | 3 39 | 2 31 | 22 46 | 0 20 | 19 32 | 1 8 | 20 2 | 0 2 | 22 0 | 1 0 | 14 4 | 6 26 | 8 0 | 8 17 | 1 3 | | | n.a. |
| S 21 | 0 52 | 16 25 | 3 4 | 9 34 | 3 1 | 17 11 | 2 5 | 3 34 | 2 30 | 22 46 | 0 20 | 19 31 | 1 8 | 20 2 | 0 2 | 22 0 | 1 0 | 14 4 | 6 25 | 7 59 | 8 18 | 1 1 | | | n.a. |
| S 22 | 0 28 | 14 5 | 2 6 | 9 53 | 3 4 | 17 35 | 2 9 | 3 29 | 2 28 | 22 46 | 0 20 | 19 29 | 1 8 | 20 3 | 0 2 | 22 0 | 1 0 | 14 5 | 6 25 | 7 58 | 8 19 | 0 59 | | | n.a. |
| M23 | 0 5 | 11 11 | 1 3 | 10 7 | 3 6 | 17 59 | 2 12 | 3 23 | 2 27 | 22 47 | 0 20 | 19 28 | 1 8 | 20 3 | 0 2 | 22 0 | 1 0 | 14 5 | 6 25 | 7 58 | 8 21 | 0 57 | | | n.a. |
| T 24 | 0n19 | 7 50 | 0s 2 | 10 19 | 3 7 | 18 22 | 2 15 | 3 18 | 2 25 | 22 47 | 0 20 | 19 27 | 1 9 | 20 4 | 0 2 | 22 0 | 1 0 | 14 5 | 6 25 | 7 58 | 8 22 | 0 55 | | | n.a. |
| W25 | 0 42 | 4 12 | 1 7 | 10 27 | 3 6 | 18 46 | 2 19 | 3 12 | 2 24 | 22 47 | 0 20 | 19 25 | 1 9 | 20 4 | 0 2 | 22 0 | 1 0 | 14 6 | 6 25 | 7 58 | 8 23 | 0 53 | | | n.a. |
| T 26 | 1 6 | 0 25 | 2 9 | 10 32 | 3 5 | 19 8 | 2 22 | 3 6 | 2 22 | 22 48 | 0 20 | 19 24 | 1 9 | 20 5 | 0 2 | 22 1 | 1 0 | 14 6 | 6 24 | 7 59 | 8 24 | 0 51 | | | n.a. |
| F 27 | 1 29 | 3n24 | 3 5 | 10 33 | 3 2 | 19 30 | 2 25 | 3 0 | 2 20 | 22 48 | 0 20 | 19 23 | 1 9 | 20 5 | 0 2 | 22 1 | 1 0 | 14 6 | 6 24 | 8 0 | 8 26 | 0 49 | | | n.a. |
| S 28 | 1 53 | 7 5 | 3 53 | 10 31 | 2 58 | 19 52 | 2 28 | 2 54 | 2 18 | 22 48 | 0 20 | 19 22 | 1 9 | 20 6 | 0 2 | 22 1 | 1 0 | 14 7 | 6 24 | 8 1 | 8 27 | 0 47 | | | n.a. |
| S 29 | 2 16 | 10 31 | 4 32 | 10 25 | 2 52 | 20 13 | 2 31 | 2 47 | 2 16 | 22 48 | 0 20 | 19 21 | 1 9 | 20 6 | 0 2 | 22 1 | 1 0 | 14 7 | 6 24 | 8 3 | 8 28 | 0 46 | | | n.a. |
| M30 | 2 39 | 13 33 | 4 58 | 10 16 | 2 45 | 20 34 | 2 34 | 2 41 | 2 14 | 22 49 | 0 20 | 19 19 | 1 10 | 20 7 | 0 2 | 22 1 | 1 0 | 14 7 | 6 24 | 8 5 | 8 29 | 0 44 | | | n.a. |
| T 31 | 3n 2 | 16n 2 | 5s12 | 10n 4 | 2n37 | 20n54 | 2n37 | 2s35 | 2n12 | 22s49 | 0n19 | 19s18 | 1s10 | 20n 7 | 0s 2 | 22n 1 | 1s 0 | 14n 8 | 6s24 | 8n 6 | 8n30 | 0s42 | | | n.a. |

Julian Day Number = 1696280.5, Delta T = 03h07m53s
Ecliptic obliquity = 23°42'04, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°00'52, Lahiri = - 4°53'52 Julian Calendar 1 March 69 BCE == Greg. Calendar 28 Feb. 069 BCE

The year -68 astronomical counting style corresponds to year 069 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 69 BCE
# geocentric

## APRIL 69 BCE (-68) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 12 27 15 | 8♈32'51 | 16♊15 | 19°R 4 | 22♉43 | 11°R 9 | 17♐51 | 9♒ 9 | 29♉ 2 | 16♊31 | 0♊ 3 | 9°R25 | 8♍21 | 3♈19 | n.a. | W 1 |
| T 2 | 12 31 11 | 9°30'57 | 28°58 | 18♈43 | 23°47 | 10♎48 | 17°53 | 9°14 | 29° 4 | 16°32 | 0° 4 | 9♍24 | 8°18 | 3°25 | n.a. | T 2 |
| F 3 | 12 35 8 | 10°29'01 | 12♋ 0 | 18°19 | 24°51 | 10°26 | 17°53 | 9°19 | 29° 7 | 16°33 | 0° 5 | 9°D23 | 8°15 | 3°32 | n.a. | F 3 |
| S 4 | 12 39 4 | 11°27'02 | 25°25 | 17°50 | 25°54 | 10° 4 | 17°54 | 9°23 | 29°10 | 16°34 | 0° 6 | 9°24 | 8°12 | 3°39 | n.a. | S 4 |
| S 5 | 12 43 1 | 12°25'02 | 9♌15 | 17°19 | 26°57 | 9°43 | 17°55 | 9°28 | 29°12 | 16°35 | 0° 7 | 9°25 | 8° 9 | 3°45 | n.a. | S 5 |
| M 6 | 12 46 57 | 13°22'59 | 23°29 | 16°45 | 28° 0 | 9°21 | 17°55 | 9°33 | 29°15 | 16°37 | 0° 8 | 9°27 | 8° 6 | 3°52 | n.a. | M 6 |
| T 7 | 12 50 54 | 14°20'55 | 8♍ 7 | 16° 9 | 29° 3 | 8°59 | 17°R55 | 9°37 | 29°18 | 16°38 | 0° 9 | 9°R27 | 8° 2 | 3°59 | n.a. | T 7 |
| W 8 | 12 54 50 | 15°18'48 | 23° 5 | 15°32 | 0♊ 5 | 8°37 | 17°55 | 9°41 | 29°20 | 16°39 | 0°10 | 9°27 | 7°59 | 4° 5 | n.a. | W 8 |
| T 9 | 12 58 47 | 16°16'40 | 8♎15 | 14°55 | 1° 7 | 8°16 | 17°55 | 9°46 | 29°23 | 16°40 | 0°11 | 9°24 | 7°56 | 4°12 | n.a. | T 9 |
| F 10 | 13 2 43 | 17°14'30 | 23°29 | 14°18 | 2° 9 | 7°54 | 17°55 | 9°50 | 29°26 | 16°42 | 0°12 | 9°20 | 7°53 | 4°19 | n.a. | F 10 |
| S 11 | 13 6 40 | 18°12'19 | 8♏36 | 13°42 | 3°10 | 7°33 | 17°54 | 9°54 | 29°29 | 16°43 | 0°13 | 9°15 | 7°50 | 4°25 | n.a. | S 11 |
| S 12 | 13 10 37 | 19°10'06 | 23°26 | 13° 7 | 4°11 | 7°12 | 17°53 | 9°58 | 29°32 | 16°44 | 0°14 | 9° 9 | 7°47 | 4°32 | n.a. | S 12 |
| M13 | 13 14 33 | 20° 7'52 | 7♐53 | 12°35 | 5°12 | 6°51 | 17°52 | 10° 2 | 29°35 | 16°46 | 0°16 | 9° 4 | 7°43 | 4°39 | n.a. | M13 |
| T 14 | 13 18 30 | 21° 5'37 | 21°52 | 12° 4 | 6°12 | 6°31 | 17°51 | 10° 6 | 29°38 | 16°47 | 0°17 | 8°59 | 7°40 | 4°45 | n.a. | T 14 |
| W15 | 13 22 26 | 22° 3'20 | 5♑22 | 11°37 | 7°12 | 6°11 | 17°50 | 10°10 | 29°41 | 16°48 | 0°18 | 8°56 | 7°37 | 4°52 | n.a. | W15 |
| T 16 | 13 26 23 | 23° 1'02 | 18°24 | 11°14 | 8°11 | 5°51 | 17°49 | 10°14 | 29°44 | 16°50 | 0°19 | 8°D55 | 7°34 | 4°59 | n.a. | T 16 |
| F 17 | 13 30 19 | 23°58'43 | 1♒ 2 | 10°54 | 9°11 | 5°32 | 17°47 | 10°17 | 29°47 | 16°51 | 0°20 | 8°55 | 7°31 | 5° 5 | n.a. | F 17 |
| S 18 | 13 34 16 | 24°56'23 | 13°21 | 10°38 | 10° 9 | 5°13 | 17°45 | 10°21 | 29°50 | 16°53 | 0°21 | 8°56 | 7°27 | 5°12 | n.a. | S 18 |
| S 19 | 13 38 12 | 25°54'02 | 25°25 | 10°26 | 11° 8 | 4°55 | 17°43 | 10°24 | 29°53 | 16°54 | 0°23 | 8°57 | 7°24 | 5°19 | n.a. | S 19 |
| M20 | 13 42 9 | 26°51'39 | 7♓18 | 10°19 | 12° 6 | 4°37 | 17°41 | 10°28 | 29°56 | 16°56 | 0°24 | 8°R58 | 7°21 | 5°25 | n.a. | M20 |
| T 21 | 13 46 6 | 27°49'16 | 19° 7 | 10°D16 | 13° 3 | 4°20 | 17°38 | 10°31 | 29°59 | 16°57 | 0°25 | 8°57 | 7°18 | 5°32 | n.a. | T 21 |
| W22 | 13 50 2 | 28°46'51 | 0♈53 | 10°18 | 14° 0 | 4° 4 | 17°36 | 10°34 | 0♊ 2 | 16°59 | 0°26 | 8°55 | 7°15 | 5°39 | n.a. | W22 |
| T 23 | 13 53 59 | 29°44'25 | 12°41 | 10°24 | 14°57 | 3°48 | 17°33 | 10°37 | 0° 5 | 17° 1 | 0°28 | 8°50 | 7°12 | 5°45 | n.a. | T 23 |
| F 24 | 13 57 55 | 0♉41'58 | 24°34 | 10°35 | 15°53 | 3°33 | 17°30 | 10°40 | 0° 9 | 17° 2 | 0°29 | 8°43 | 7° 8 | 5°52 | n.a. | F 24 |
| S 25 | 14 1 52 | 1°39'29 | 6♉32 | 10°50 | 16°48 | 3°18 | 17°27 | 10°43 | 0°12 | 17° 4 | 0°30 | 8°34 | 7° 5 | 5°59 | n.a. | S 25 |
| S 26 | 14 5 48 | 2°37'00 | 18°38 | 11° 9 | 17°43 | 3° 5 | 17°23 | 10°46 | 0°15 | 17° 6 | 0°31 | 8°24 | 7° 2 | 6° 5 | n.a. | S 26 |
| M27 | 14 9 45 | 3°34'29 | 0♊53 | 11°33 | 18°38 | 2°52 | 17°20 | 10°49 | 0°18 | 17° 7 | 0°33 | 8°14 | 6°59 | 6°12 | n.a. | M27 |
| T 28 | 14 13 41 | 4°31'57 | 13°19 | 12° 2 | 19°32 | 2°39 | 17°16 | 10°52 | 0°22 | 17° 9 | 0°34 | 8° 5 | 6°56 | 6°19 | n.a. | T 28 |
| W29 | 14 17 38 | 5°29'24 | 25°55 | 12°34 | 20°25 | 2°28 | 17°12 | 10°54 | 0°25 | 17°11 | 0°35 | 7°57 | 6°53 | 6°25 | n.a. | W29 |
| T 30 | 14 21 35 | 6♉26'49 | 8♋45 | 13♈11 | 21♊18 | 2♎17 | 17♐ 8 | 10♒57 | 0♊28 | 17♊13 | 0♊37 | 7♍52 | 6♍49 | 6♈32 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 3n26 | 17n49 | 5s11 | 9n49 | 2n28 | 21n14 | 2n40 | 2s28 | 2n10 | 22s49 | 0n19 | 19s17 | 1s10 | 20n 8 | 0s 2 | 22n 1 | 0s59 | 14n 8 | 6s23 | 8n 7 | 8n32 | 0s40 | | n.a. |
| T 2 | 3 49 | 18 46 | 4 56 | 9 32 | 2 17 | 21 33 | 2 43 | 2 22 | 2 8 | 22 49 | 0 19 | 19 16 | 1 10 | 20 9 | 0 2 | 22 2 | 0 59 | 14 8 | 6 23 | 8 8 | 8 33 | 0 38 | | n.a. |
| F 3 | 4 12 | 18 46 | 4 24 | 9 11 | 2 5 | 21 52 | 2 46 | 2 15 | 2 6 | 22 49 | 0 19 | 19 15 | 1 10 | 20 9 | 0 2 | 22 2 | 0 59 | 14 9 | 6 23 | 8 8 | 8 34 | 0 36 | | n.a. |
| S 4 | 4 35 | 17 43 | 3 38 | 8 48 | 1 52 | 22 10 | 2 49 | 2 9 | 2 3 | 22 50 | 0 19 | 19 14 | 1 10 | 20 10 | 0 2 | 22 2 | 0 59 | 14 9 | 6 23 | 8 8 | 8 35 | 0 34 | | n.a. |
| S 5 | 4 58 | 15 36 | 2 38 | 8 23 | 1 39 | 22 28 | 2 51 | 2 2 | 2 1 | 22 50 | 0 19 | 19 13 | 1 11 | 20 10 | 0 2 | 22 2 | 0 59 | 14 9 | 6 23 | 8 7 | 8 36 | 0 32 | | n.a. |
| M 6 | 5 20 | 12 29 | 1 26 | 7 56 | 1 24 | 22 45 | 2 54 | 1 56 | 1 58 | 22 50 | 0 19 | 19 12 | 1 11 | 20 11 | 0 2 | 22 2 | 0 59 | 14 10 | 6 23 | 8 7 | 8 38 | 0 30 | | n.a. |
| T 7 | 5 43 | 8 30 | 0 7 | 7 28 | 1 8 | 23 2 | 2 56 | 1 50 | 1 56 | 22 50 | 0 19 | 19 11 | 1 11 | 20 11 | 0 2 | 22 2 | 0 59 | 14 10 | 6 23 | 8 7 | 8 39 | 0 28 | | n.a. |
| W 8 | 6 6 | 3 54 | 1n14 | 6 59 | 0 52 | 23 18 | 2 58 | 1 43 | 1 53 | 22 50 | 0 19 | 19 10 | 1 11 | 20 12 | 0 2 | 22 3 | 0 59 | 14 11 | 6 22 | 8 7 | 8 40 | 0 26 | | n.a. |
| T 9 | 6 28 | 1s 0 | 2 31 | 6 29 | 0 35 | 23 33 | 3 1 | 1 37 | 1 50 | 22 50 | 0 19 | 19 9 | 1 11 | 20 13 | 0 2 | 22 3 | 0 59 | 14 11 | 6 22 | 8 8 | 8 41 | 0 24 | | n.a. |
| F 10 | 6 51 | 5 52 | 3 37 | 5 59 | 0 18 | 23 48 | 3 3 | 1 31 | 1 48 | 22 50 | 0 19 | 19 8 | 1 11 | 20 13 | 0 2 | 22 3 | 0 59 | 14 11 | 6 22 | 8 9 | 8 42 | 0 22 | | n.a. |
| S 11 | 7 13 | 10 18 | 4 28 | 5 29 | 0 1 | 24 2 | 3 5 | 1 25 | 1 45 | 22 50 | 0 19 | 19 7 | 1 12 | 20 14 | 0 2 | 22 3 | 0 59 | 14 12 | 6 22 | 8 11 | 8 44 | 0 20 | | n.a. |
| S 12 | 7 35 | 14 1 | 4 59 | 4 59 | 0s16 | 24 16 | 3 7 | 1 20 | 1 42 | 22 50 | 0 19 | 19 6 | 1 12 | 20 15 | 0 2 | 22 3 | 0 59 | 14 12 | 6 22 | 8 13 | 8 45 | 0 18 | | n.a. |
| M13 | 7 57 | 16 45 | 5 10 | 4 31 | 0 33 | 24 29 | 3 9 | 1 14 | 1 39 | 22 50 | 0 18 | 19 5 | 1 12 | 20 15 | 0 2 | 22 3 | 0 59 | 14 12 | 6 22 | 8 16 | 8 46 | 0 16 | | n.a. |
| T 14 | 8 19 | 18 25 | 5 3 | 4 4 | 0 49 | 24 42 | 3 10 | 1 8 | 1 36 | 22 50 | 0 18 | 19 4 | 1 12 | 20 16 | 0 2 | 22 4 | 0 59 | 14 13 | 6 22 | 8 17 | 8 47 | 0 14 | | n.a. |
| W15 | 8 41 | 18 57 | 4 38 | 3 39 | 1 5 | 24 54 | 3 12 | 1 3 | 1 34 | 22 50 | 0 18 | 19 3 | 1 12 | 20 17 | 0 2 | 22 4 | 0 59 | 14 13 | 6 21 | 8 18 | 8 48 | 0 13 | | n.a. |
| T 16 | 9 3 | 18 27 | 4 0 | 3 15 | 1 21 | 25 6 | 3 13 | 0 58 | 1 31 | 22 50 | 0 18 | 19 2 | 1 13 | 20 17 | 0 2 | 22 4 | 0 59 | 14 14 | 6 21 | 8 19 | 8 49 | 0 11 | | n.a. |
| F 17 | 9 24 | 17 2 | 3 11 | 2 54 | 1 36 | 25 16 | 3 15 | 0 53 | 1 28 | 22 50 | 0 18 | 19 1 | 1 13 | 20 18 | 0 2 | 22 4 | 0 59 | 14 14 | 6 21 | 8 19 | 8 51 | 0 9 | | n.a. |
| S 18 | 9 46 | 14 51 | 2 14 | 2 35 | 1 50 | 25 27 | 3 16 | 0 48 | 1 25 | 22 50 | 0 18 | 19 1 | 1 13 | 20 19 | 0 2 | 22 4 | 0 59 | 14 14 | 6 21 | 8 19 | 8 52 | 0 7 | | n.a. |
| S 19 | 10 7 | 12 3 | 1 13 | 2 18 | 2 3 | 25 36 | 3 17 | 0 44 | 1 22 | 22 50 | 0 18 | 19 0 | 1 13 | 20 19 | 0 2 | 22 4 | 0 59 | 14 15 | 6 21 | 8 18 | 8 53 | 0 5 | | n.a. |
| M20 | 10 28 | 8 47 | 0 9 | 2 4 | 2 15 | 25 45 | 3 18 | 0 39 | 1 19 | 22 50 | 0 18 | 18 59 | 1 13 | 20 20 | 0 2 | 22 5 | 0 59 | 14 15 | 6 21 | 8 18 | 8 54 | 0 3 | | n.a. |
| T 21 | 10 49 | 5 11 | 0s55 | 1 52 | 2 26 | 25 54 | 3 19 | 0 35 | 1 16 | 22 49 | 0 18 | 18 58 | 1 14 | 20 21 | 0 2 | 22 5 | 0 59 | 14 15 | 6 21 | 8 18 | 8 55 | 0 1 | | n.a. |
| W22 | 11 10 | 1 24 | 1 56 | 1 43 | 2 37 | 26 2 | 3 20 | 0 31 | 1 13 | 22 49 | 0 18 | 18 58 | 1 14 | 20 21 | 0 2 | 22 5 | 0 59 | 14 16 | 6 20 | 8 19 | 8 57 | 0n 1 | | n.a. |
| T 23 | 11 30 | 2n26 | 2 52 | 1 37 | 2 46 | 26 9 | 3 20 | 0 28 | 1 9 | 22 49 | 0 18 | 18 57 | 1 14 | 20 22 | 0 2 | 22 5 | 0 59 | 14 16 | 6 20 | 8 21 | 8 58 | 0 3 | | n.a. |
| F 24 | 11 51 | 6 12 | 3 40 | 1 34 | 2 54 | 26 16 | 3 21 | 0 25 | 1 6 | 22 49 | 0 18 | 18 56 | 1 14 | 20 23 | 0 2 | 22 5 | 0 59 | 14 17 | 6 20 | 8 23 | 8 59 | 0 5 | | n.a. |
| S 25 | 12 11 | 9 46 | 4 20 | 1 33 | 3 2 | 26 22 | 3 21 | 0 22 | 1 3 | 22 49 | 0 17 | 18 56 | 1 14 | 20 23 | 0 2 | 22 6 | 0 59 | 14 17 | 6 20 | 8 27 | 9 0 | 0 7 | | n.a. |
| S 26 | 12 31 | 12 57 | 4 48 | 1 35 | 3 8 | 26 28 | 3 21 | 0 19 | 1 0 | 22 49 | 0 17 | 18 55 | 1 14 | 20 24 | 0 2 | 22 6 | 0 59 | 14 17 | 6 20 | 8 30 | 9 1 | 0 9 | | n.a. |
| M27 | 12 51 | 15 37 | 5 3 | 1 40 | 3 13 | 26 33 | 3 21 | 0 17 | 0 57 | 22 48 | 0 17 | 18 54 | 1 15 | 20 25 | 0 1 | 22 6 | 0 58 | 14 18 | 6 20 | 8 34 | 9 3 | 0 11 | | n.a. |
| T 28 | 13 10 | 17 37 | 5 4 | 1 47 | 3 18 | 26 37 | 3 21 | 0 14 | 0 54 | 22 48 | 0 17 | 18 54 | 1 15 | 20 25 | 0 1 | 22 6 | 0 58 | 14 18 | 6 20 | 8 38 | 9 4 | 0 13 | | n.a. |
| W29 | 13 30 | 18 48 | 4 51 | 1 56 | 3 21 | 26 41 | 3 20 | 0 13 | 0 51 | 22 48 | 0 17 | 18 53 | 1 15 | 20 26 | 0 1 | 22 6 | 0 58 | 14 18 | 6 20 | 8 41 | 9 5 | 0 15 | | n.a. |
| T 30 | 13n49 | 19n 3 | 4s23 | 2n 8 | 3s24 | 26n44 | 3n20 | 0s11 | 0n48 | 22s47 | 0n17 | 18s53 | 1s15 | 20n27 | 0s 1 | 22n 7 | 0s58 | 14n19 | 6s20 | 8n43 | 9n 6 | 0n17 | | n.a. |

Julian Day Number = 1696311.5, Delta T = 03h07m52s
Ecliptic obliquity = 23°42'04, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°00'48, Lahiri = - 4°53'47 Julian Calendar 1 Apr. 69 BCE == Greg. Calendar 30 March 069 BCE

The year -68 astronomical counting style corresponds to year 069 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 69 BCE
# geocentric

## MAY 69 BCE (-68) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 14 25 31 | 7♉24'13 | 21♋50 | 13♈51 | 22♊10 | 2°R 7 | 17°R 4 | 10♒59 | 0♊32 | 17♊14 | 0♊38 | 7°R48 | 6♍46 | 6♈39 | n.a. | F 1 |
| S 2 | 14 29 28 | 8°21'36 | 5♌12 | 14°35 | 23° 2 | 1♎58 | 17♐ 0 | 11° 2 | 0°35 | 17°16 | 0°39 | 7°D47 | 6°43 | 6°45 | n.a. | S 2 |
| S 3 | 14 33 24 | 9°18'58 | 18°53 | 15°23 | 23°53 | 1°50 | 16°55 | 11° 4 | 0°38 | 17°18 | 0°41 | 7♍47 | 6°40 | 6°52 | n.a. | S 3 |
| M 4 | 14 37 21 | 10°16'18 | 2♍55 | 16°15 | 24°43 | 1°43 | 16°51 | 11° 6 | 0°42 | 17°20 | 0°42 | 7°R48 | 6°37 | 6°59 | n.a. | M 4 |
| T 5 | 14 41 17 | 11°13'37 | 17°18 | 17°10 | 25°32 | 1°36 | 16°46 | 11° 8 | 0°45 | 17°22 | 0°43 | 7°48 | 6°33 | 7° 5 | n.a. | T 5 |
| W 6 | 14 45 14 | 12°10'54 | 1♎59 | 18° 9 | 26°21 | 1°30 | 16°41 | 11°10 | 0°49 | 17°24 | 0°45 | 7°46 | 6°30 | 7°12 | n.a. | W 6 |
| T 7 | 14 49 10 | 13° 8'11 | 16°54 | 19°11 | 27° 9 | 1°26 | 16°36 | 11°12 | 0°52 | 17°26 | 0°46 | 7°41 | 6°27 | 7°19 | n.a. | T 7 |
| F 8 | 14 53 7 | 14° 5'27 | 1♏55 | 20°16 | 27°56 | 1°21 | 16°30 | 11°14 | 0°56 | 17°27 | 0°48 | 7°34 | 6°24 | 7°25 | n.a. | F 8 |
| S 9 | 14 57 4 | 15° 2'41 | 16°55 | 21°24 | 28°42 | 1°18 | 16°25 | 11°15 | 0°59 | 17°29 | 0°49 | 7°25 | 6°21 | 7°32 | n.a. | S 9 |
| S 10 | 15 1 0 | 15°59'56 | 1♐42 | 22°36 | 29°27 | 1°16 | 16°20 | 11°17 | 1° 2 | 17°31 | 0°50 | 7°15 | 6°18 | 7°39 | n.a. | S 10 |
| M11 | 15 4 57 | 16°57'09 | 16°10 | 23°51 | 0♋12 | 1°14 | 16°14 | 11°18 | 1° 6 | 17°33 | 0°52 | 7° 6 | 6°14 | 7°45 | n.a. | M11 |
| T 12 | 15 8 53 | 17°54'22 | 0♑13 | 25° 9 | 0°56 | 1°13 | 16° 8 | 11°20 | 1° 9 | 17°35 | 0°53 | 6°57 | 6°11 | 7°52 | n.a. | T 12 |
| W13 | 15 12 50 | 18°51'34 | 13°47 | 26°30 | 1°38 | 1°D13 | 16° 2 | 11°21 | 1°13 | 17°37 | 0°55 | 6°50 | 6° 8 | 7°59 | n.a. | W13 |
| T 14 | 15 16 46 | 19°48'46 | 26°53 | 27°54 | 2°20 | 1°14 | 15°56 | 11°22 | 1°16 | 17°39 | 0°56 | 6°46 | 6° 5 | 8° 5 | n.a. | T 14 |
| F 15 | 15 20 43 | 20°45'58 | 9♒33 | 29°21 | 3° 0 | 1°16 | 15°50 | 11°23 | 1°20 | 17°41 | 0°57 | 6°44 | 6° 2 | 8°12 | n.a. | F 15 |
| S 16 | 15 24 39 | 21°43'09 | 21°53 | 0♑51 | 3°40 | 1°18 | 15°44 | 11°24 | 1°24 | 17°43 | 0°59 | 6°D44 | 5°58 | 8°19 | n.a. | S 16 |
| S 17 | 15 28 36 | 22°40'20 | 3♓57 | 2°24 | 4°18 | 1°21 | 15°37 | 11°25 | 1°27 | 17°45 | 1° 0 | 6°R44 | 5°55 | 8°25 | n.a. | S 17 |
| M18 | 15 32 33 | 23°37'31 | 15°51 | 4° 0 | 4°55 | 1°25 | 15°31 | 11°26 | 1°31 | 17°47 | 1° 2 | 6°43 | 5°52 | 8°32 | n.a. | M18 |
| T 19 | 15 36 29 | 24°34'41 | 27°39 | 5°39 | 5°32 | 1°30 | 15°24 | 11°26 | 1°34 | 17°50 | 1° 3 | 6°42 | 5°49 | 8°39 | n.a. | T 19 |
| W20 | 15 40 26 | 25°31'52 | 9♈27 | 7°20 | 6° 6 | 1°35 | 15°17 | 11°27 | 1°38 | 17°52 | 1° 5 | 6°38 | 5°46 | 8°45 | n.a. | W20 |
| T 21 | 15 44 22 | 26°29'01 | 21°18 | 9° 5 | 6°40 | 1°41 | 15°10 | 11°28 | 1°41 | 17°54 | 1° 6 | 6°31 | 5°43 | 8°52 | n.a. | T 21 |
| F 22 | 15 48 19 | 27°26'11 | 3♉16 | 10°52 | 7°12 | 1°48 | 15° 4 | 11°28 | 1°45 | 17°56 | 1° 8 | 6°22 | 5°39 | 8°59 | n.a. | F 22 |
| S 23 | 15 52 15 | 28°23'21 | 15°24 | 12°42 | 7°43 | 1°56 | 14°57 | 11°28 | 1°48 | 17°58 | 1° 9 | 6°11 | 5°36 | 9° 5 | n.a. | S 23 |
| S 24 | 15 56 12 | 29°20'30 | 27°42 | 14°34 | 8°12 | 2° 4 | 14°49 | 11°28 | 1°52 | 18° 0 | 1°10 | 5°58 | 5°33 | 9°12 | n.a. | S 24 |
| M25 | 16 0 8 | 0♊17'39 | 10♊12 | 16°30 | 8°40 | 2°13 | 14°42 | 11°R28 | 1°56 | 18° 2 | 1°12 | 5°45 | 5°30 | 9°19 | n.a. | M25 |
| T 26 | 16 4 5 | 1°14'48 | 22°54 | 18°27 | 9° 6 | 2°23 | 14°35 | 11°28 | 1°59 | 18° 4 | 1°13 | 5°32 | 5°27 | 9°25 | n.a. | T 26 |
| W27 | 16 8 2 | 2°11'56 | 5♋47 | 20°27 | 9°31 | 2°34 | 14°28 | 11°28 | 2° 3 | 18° 7 | 1°15 | 5°22 | 5°24 | 9°32 | n.a. | W27 |
| T 28 | 16 11 58 | 3° 9'04 | 18°51 | 22°29 | 9°54 | 2°45 | 14°20 | 11°28 | 2° 6 | 18° 9 | 1°16 | 5°14 | 5°20 | 9°39 | n.a. | T 28 |
| F 29 | 16 15 55 | 4° 6'12 | 2♌ 8 | 24°33 | 10°15 | 2°57 | 14°13 | 11°28 | 2°10 | 18°11 | 1°18 | 5° 9 | 5°17 | 9°45 | n.a. | F 29 |
| S 30 | 16 19 51 | 5° 3'19 | 15°37 | 26°38 | 10°35 | 3° 9 | 14° 5 | 11°27 | 2°14 | 18°13 | 1°19 | 5° 7 | 5°14 | 9°52 | n.a. | S 30 |
| S 31 | 16 23 48 | 6♊ 0'26 | 29♌19 | 28♑45 | 10♋52 | 3♎23 | 13♐58 | 11♒27 | 2♊17 | 18♊15 | 1♊21 | 5♍ 6 | 5♍11 | 9♈59 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 14n 8 | 18n17 | 3s40 | 2n22 | 3s26 | 26n47 | 3n19 | 0s10 | 0n45 | 22s47 | 0n17 | 18s52 | 1s15 | 20n28 | 0s 1 | 22n 7 | 0s58 | 14n19 | 6s19 | 8n44 | 9n 7 | 0n19 | | n.a. |
| S 2 | 14 27 | 16 30 | 2 45 | 2 39 | 3 26 | 26 49 | 3 18 | 0 9 | 0 42 | 22 47 | 0 17 | 18 52 | 1 16 | 20 28 | 0 1 | 22 7 | 0 58 | 14 20 | 6 19 | 8 44 | 9 9 | 0 21 | | n.a. |
| S 3 | 14 45 | 13 45 | 1 39 | 2 57 | 3 26 | 26 50 | 3 17 | 0 8 | 0 39 | 22 47 | 0 17 | 18 51 | 1 16 | 20 29 | 0 1 | 22 7 | 0 58 | 14 20 | 6 19 | 8 44 | 9 10 | 0 23 | | n.a. |
| M 4 | 15 4 | 10 8 | 0 26 | 3 18 | 3 26 | 26 51 | 3 16 | 0 8 | 0 36 | 22 46 | 0 16 | 18 51 | 1 16 | 20 30 | 0 1 | 22 7 | 0 58 | 14 20 | 6 19 | 8 44 | 9 11 | 0 25 | | n.a. |
| T 5 | 15 22 | 5 51 | 0n51 | 3 41 | 3 24 | 26 52 | 3 14 | 0 8 | 0 34 | 22 46 | 0 16 | 18 51 | 1 16 | 20 31 | 0 1 | 22 8 | 0 58 | 14 21 | 6 19 | 8 44 | 9 12 | 0 26 | | n.a. |
| W 6 | 15 40 | 1 7 | 2 5 | 4 5 | 3 22 | 26 51 | 3 13 | 0 8 | 0 31 | 22 45 | 0 16 | 18 50 | 1 17 | 20 31 | 0 1 | 22 8 | 0 58 | 14 21 | 6 19 | 8 45 | 9 13 | 0 28 | | n.a. |
| T 7 | 15 57 | 3s45 | 3 13 | 4 32 | 3 19 | 26 51 | 3 11 | 0 9 | 0 28 | 22 45 | 0 16 | 18 50 | 1 17 | 20 32 | 0 1 | 22 8 | 0 58 | 14 21 | 6 19 | 8 47 | 9 14 | 0 30 | | n.a. |
| F 8 | 16 14 | 8 25 | 4 7 | 5 0 | 3 15 | 26 50 | 3 9 | 0 10 | 0 25 | 22 45 | 0 16 | 18 50 | 1 17 | 20 33 | 0 1 | 22 8 | 0 58 | 14 22 | 6 19 | 8 49 | 9 16 | 0 32 | | n.a. |
| S 9 | 16 32 | 12 32 | 4 44 | 5 30 | 3 10 | 26 48 | 3 6 | 0 11 | 0 22 | 22 44 | 0 16 | 18 49 | 1 17 | 20 33 | 0 1 | 22 8 | 0 58 | 14 22 | 6 19 | 8 53 | 9 17 | 0 34 | | n.a. |
| S 10 | 16 48 | 15 48 | 5 1 | 6 1 | 3 5 | 26 46 | 3 4 | 0 13 | 0 19 | 22 44 | 0 16 | 18 49 | 1 17 | 20 34 | 0 1 | 22 9 | 0 58 | 14 22 | 6 19 | 8 56 | 9 18 | 0 36 | | n.a. |
| M11 | 17 5 | 18 1 | 4 59 | 6 35 | 2 59 | 26 43 | 3 1 | 0 14 | 0 17 | 22 43 | 0 16 | 18 49 | 1 18 | 20 35 | 0 1 | 22 9 | 0 58 | 14 23 | 6 18 | 9 0 | 9 19 | 0 38 | | n.a. |
| T 12 | 17 21 | 19 3 | 4 39 | 7 9 | 2 53 | 26 40 | 2 58 | 0 17 | 0 14 | 22 43 | 0 16 | 18 49 | 1 18 | 20 36 | 0 1 | 22 9 | 0 58 | 14 23 | 6 18 | 9 3 | 9 20 | 0 40 | | n.a. |
| W13 | 17 37 | 18 57 | 4 3 | 7 45 | 2 46 | 26 36 | 2 55 | 0 19 | 0 11 | 22 42 | 0 15 | 18 49 | 1 18 | 20 36 | 0 1 | 22 9 | 0 58 | 14 24 | 6 18 | 9 6 | 9 22 | 0 42 | | n.a. |
| T 14 | 17 53 | 17 49 | 3 15 | 8 23 | 2 39 | 26 32 | 2 51 | 0 22 | 0 9 | 22 42 | 0 15 | 18 49 | 1 18 | 20 37 | 0 1 | 22 9 | 0 58 | 14 24 | 6 18 | 9 7 | 9 23 | 0 44 | | n.a. |
| F 15 | 18 8 | 15 49 | 2 19 | 9 1 | 2 31 | 26 27 | 2 47 | 0 25 | 0 6 | 22 41 | 0 15 | 18 48 | 1 18 | 20 38 | 0 1 | 22 10 | 0 58 | 14 24 | 6 18 | 9 8 | 9 24 | 0 46 | | n.a. |
| S 16 | 18 24 | 13 8 | 1 18 | 9 41 | 2 22 | 26 22 | 2 43 | 0 28 | 0 4 | 22 41 | 0 15 | 18 48 | 1 19 | 20 39 | 0 1 | 22 10 | 0 58 | 14 25 | 6 18 | 9 8 | 9 25 | 0 48 | | n.a. |
| S 17 | 18 38 | 9 56 | 0 15 | 10 21 | 2 13 | 26 17 | 2 39 | 0 32 | 0 1 | 22 40 | 0 15 | 18 48 | 1 19 | 20 39 | 0 1 | 22 10 | 0 58 | 14 25 | 6 18 | 9 8 | 9 26 | 0 50 | | n.a. |
| M18 | 18 53 | 6 23 | 0s48 | 11 3 | 2 4 | 26 11 | 2 35 | 0 35 | 0s 1 | 22 40 | 0 15 | 18 48 | 1 19 | 20 40 | 0 1 | 22 10 | 0 58 | 14 25 | 6 18 | 9 8 | 9 28 | 0 52 | | n.a. |
| T 19 | 19 7 | 2 36 | 1 49 | 11 45 | 1 54 | 26 5 | 2 30 | 0 40 | 0 4 | 22 39 | 0 15 | 18 48 | 1 19 | 20 41 | 0 1 | 22 11 | 0 58 | 14 26 | 6 18 | 9 9 | 9 29 | 0 54 | | n.a. |
| W20 | 19 21 | 1n16 | 2 44 | 12 29 | 1 44 | 25 58 | 2 25 | 0 44 | 0 6 | 22 38 | 0 15 | 18 48 | 1 19 | 20 42 | 0 1 | 22 11 | 0 58 | 14 26 | 6 18 | 9 10 | 9 30 | 0 56 | | n.a. |
| T 21 | 19 35 | 5 7 | 3 33 | 13 12 | 1 33 | 25 51 | 2 19 | 0 49 | 0 9 | 22 38 | 0 14 | 18 48 | 1 20 | 20 42 | 0 1 | 22 11 | 0 58 | 14 26 | 6 18 | 9 13 | 9 31 | 0 58 | | n.a. |
| F 22 | 19 48 | 8 47 | 4 12 | 13 56 | 1 23 | 25 43 | 2 14 | 0 54 | 0 11 | 22 37 | 0 14 | 18 48 | 1 20 | 20 43 | 0 1 | 22 11 | 0 58 | 14 27 | 6 18 | 9 16 | 9 32 | 1 0 | | n.a. |
| S 23 | 20 1 | 12 9 | 4 41 | 14 41 | 1 12 | 25 36 | 2 7 | 0 59 | 0 13 | 22 36 | 0 14 | 18 49 | 1 20 | 20 44 | 0 1 | 22 11 | 0 58 | 14 27 | 6 18 | 9 21 | 9 33 | 1 2 | | n.a. |
| S 24 | 20 14 | 15 2 | 4 57 | 15 26 | 1 0 | 25 28 | 2 1 | 1 4 | 0 16 | 22 36 | 0 14 | 18 49 | 1 20 | 20 44 | 0 1 | 22 12 | 0 58 | 14 27 | 6 18 | 9 25 | 9 35 | 1 4 | | n.a. |
| M25 | 20 26 | 17 17 | 4 59 | 16 10 | 0 49 | 25 19 | 1 54 | 1 10 | 0 18 | 22 35 | 0 14 | 18 49 | 1 21 | 20 45 | 0 1 | 22 12 | 0 58 | 14 28 | 6 18 | 9 30 | 9 36 | 1 6 | | n.a. |
| T 26 | 20 38 | 18 44 | 4 47 | 16 54 | 0 38 | 25 10 | 1 47 | 1 16 | 0 20 | 22 34 | 0 14 | 18 49 | 1 21 | 20 46 | 0 1 | 22 12 | 0 58 | 14 28 | 6 17 | 9 35 | 9 37 | 1 8 | | n.a. |
| W27 | 20 50 | 19 15 | 4 20 | 17 38 | 0 26 | 25 1 | 1 40 | 1 22 | 0 22 | 22 34 | 0 14 | 18 49 | 1 21 | 20 47 | 0 1 | 22 12 | 0 58 | 14 28 | 6 17 | 9 39 | 9 38 | 1 10 | | n.a. |
| T 28 | 21 1 | 18 45 | 3 38 | 18 21 | 0 15 | 24 52 | 1 32 | 1 28 | 0 24 | 22 33 | 0 13 | 18 50 | 1 21 | 20 47 | 0 1 | 22 12 | 0 58 | 14 29 | 6 17 | 9 42 | 9 39 | 1 12 | | n.a. |
| F 29 | 21 12 | 17 13 | 2 45 | 19 3 | 0 4 | 24 42 | 1 24 | 1 35 | 0 26 | 22 32 | 0 13 | 18 50 | 1 21 | 20 48 | 0 1 | 22 13 | 0 58 | 14 29 | 6 17 | 9 43 | 9 40 | 1 14 | | n.a. |
| S 30 | 21 22 | 14 43 | 1 41 | 19 44 | 0n 7 | 24 32 | 1 16 | 1 42 | 0 28 | 22 31 | 0 13 | 18 50 | 1 22 | 20 49 | 0 1 | 22 13 | 0 58 | 14 29 | 6 17 | 9 44 | 9 42 | 1 16 | | n.a. |
| S 31 | 21n33 | 11n22 | 0s31 | 20n23 | 0n18 | 24n22 | 1n 7 | 1s49 | 0s30 | 22s31 | 0n13 | 18s51 | 1s22 | 20n50 | 0s 1 | 22n13 | 0s58 | 14n30 | 6s17 | 9n45 | 9n43 | 1n18 | | n.a. |

Julian Day Number = 1696341.5, Delta T = 03h07m51s
Ecliptic obliquity = 23°42'04, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°00'44, Lahiri = - 4°53'43 Julian Calendar 1 May 69 BCE == Greg. Calendar 29 Apr. 069 BCE

The year -68 astronomical counting style corresponds to year 069 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 69 BCE
# geocentric

## JUNE 69 BCE (-68) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 16 27 44 | 6♊57'32 | 13♍15 | 0♊53 | 11♋ 8 | 3♎36 | 13°R50 | 11°R26 | 2♊21 | 18♊17 | 1♊22 | 5°R 6 | 5♍ 8 | 10♈ 5 | n.a. | M 1 |
| T 2 | 16 31 41 | 7°54'38 | 27°25 | 3° 3 | 11°22 | 3°51 | 13♐43 | 11♒26 | 2°24 | 18°20 | 1°23 | 5♍ 5 | 5° 4 | 10°12 | n.a. | T 2 |
| W 3 | 16 35 38 | 8°51'44 | 11♎49 | 5°12 | 11°33 | 4° 6 | 13°35 | 11°25 | 2°28 | 18°22 | 1°25 | 5° 3 | 5° 1 | 10°19 | n.a. | W 3 |
| T 4 | 16 39 34 | 9°48'50 | 26°23 | 7°23 | 11°43 | 4°22 | 13°27 | 11°24 | 2°31 | 18°24 | 1°26 | 4°58 | 4°58 | 10°25 | n.a. | T 4 |
| F 5 | 16 43 31 | 10°45'55 | 11♏ 3 | 9°33 | 11°50 | 4°38 | 13°20 | 11°23 | 2°35 | 18°26 | 1°28 | 4°50 | 4°55 | 10°32 | n.a. | F 5 |
| S 6 | 16 47 27 | 11°43'01 | 25°42 | 11°43 | 11°55 | 4°55 | 13°12 | 11°22 | 2°38 | 18°28 | 1°29 | 4°40 | 4°52 | 10°39 | n.a. | S 6 |
| S 7 | 16 51 24 | 12°40'06 | 10♐12 | 13°52 | 11°58 | 5°12 | 13° 4 | 11°20 | 2°42 | 18°31 | 1°31 | 4°29 | 4°49 | 10°45 | n.a. | S 7 |
| M 8 | 16 55 20 | 13°37'12 | 24°27 | 16° 1 | 11°R59 | 5°30 | 12°57 | 11°19 | 2°46 | 18°33 | 1°32 | 4°18 | 4°45 | 10°52 | n.a. | M 8 |
| T 9 | 16 59 17 | 14°34'18 | 8♑22 | 18° 9 | 11°57 | 5°49 | 12°49 | 11°18 | 2°49 | 18°35 | 1°33 | 4° 8 | 4°42 | 10°59 | n.a. | T 9 |
| W10 | 17 3 13 | 15°31'25 | 21°51 | 20°16 | 11°53 | 6° 8 | 12°41 | 11°16 | 2°53 | 18°37 | 1°35 | 4° 0 | 4°39 | 11° 5 | n.a. | W10 |
| T 11 | 17 7 10 | 16°28'31 | 4♒56 | 22°22 | 11°47 | 6°27 | 12°34 | 11°15 | 2°56 | 18°40 | 1°36 | 3°55 | 4°36 | 11°12 | n.a. | T 11 |
| F 12 | 17 11 7 | 17°25'39 | 17°38 | 24°26 | 11°38 | 6°47 | 12°26 | 11°13 | 3° 0 | 18°42 | 1°38 | 3°52 | 4°33 | 11°19 | n.a. | F 12 |
| S 13 | 17 15 3 | 18°22'47 | 29°59 | 26°29 | 11°27 | 7° 8 | 12°18 | 11°11 | 3° 3 | 18°44 | 1°39 | 3°D51 | 4°30 | 11°25 | n.a. | S 13 |
| S 14 | 17 19 0 | 19°19'55 | 12♓ 4 | 28°30 | 11°13 | 7°29 | 12°11 | 11° 9 | 3° 7 | 18°46 | 1°40 | 3°51 | 4°26 | 11°32 | n.a. | S 14 |
| M15 | 17 22 56 | 20°17'04 | 23°59 | 0♌30 | 10°58 | 7°50 | 12° 3 | 11° 8 | 3°10 | 18°48 | 1°42 | 3°R51 | 4°23 | 11°39 | n.a. | M15 |
| T 16 | 17 26 53 | 21°14'14 | 5♈49 | 2°28 | 10°39 | 8°12 | 11°56 | 11° 5 | 3°13 | 18°51 | 1°43 | 3°50 | 4°20 | 11°45 | n.a. | T 16 |
| W17 | 17 30 49 | 22°11'25 | 17°39 | 4°24 | 10°19 | 8°35 | 11°48 | 11° 3 | 3°17 | 18°53 | 1°45 | 3°47 | 4°17 | 11°52 | n.a. | W17 |
| T 18 | 17 34 46 | 23° 8'36 | 29°34 | 6°19 | 9°56 | 8°57 | 11°41 | 11° 1 | 3°20 | 18°55 | 1°46 | 3°42 | 4°14 | 11°59 | n.a. | T 18 |
| F 19 | 17 38 42 | 24° 5'48 | 11♉38 | 8°11 | 9°32 | 9°21 | 11°33 | 10°59 | 3°24 | 18°57 | 1°47 | 3°35 | 4°10 | 12° 5 | n.a. | F 19 |
| S 20 | 17 42 39 | 25° 3'01 | 23°54 | 10° 2 | 9° 5 | 9°45 | 11°26 | 10°56 | 3°27 | 19° 0 | 1°49 | 3°25 | 4° 7 | 12°12 | n.a. | S 20 |
| S 21 | 17 46 36 | 26° 0'15 | 6♊24 | 11°51 | 8°37 | 10° 9 | 11°19 | 10°54 | 3°31 | 19° 2 | 1°50 | 3°14 | 4° 4 | 12°19 | n.a. | S 21 |
| M22 | 17 50 32 | 26°57'29 | 19° 9 | 13°39 | 8° 6 | 10°34 | 11°12 | 10°51 | 3°34 | 19° 4 | 1°51 | 3° 2 | 4° 1 | 12°25 | n.a. | M22 |
| T 23 | 17 54 29 | 27°54'44 | 2♋10 | 15°24 | 7°35 | 10°59 | 11° 4 | 10°49 | 3°37 | 19° 6 | 1°53 | 2°52 | 3°58 | 12°32 | n.a. | T 23 |
| W24 | 17 58 25 | 28°52'00 | 15°24 | 17° 8 | 7° 1 | 11°24 | 10°57 | 10°46 | 3°41 | 19° 8 | 1°54 | 2°42 | 3°55 | 12°39 | n.a. | W24 |
| T 25 | 18 2 22 | 29°49'17 | 28°50 | 18°50 | 6°27 | 11°50 | 10°50 | 10°43 | 3°44 | 19°11 | 1°55 | 2°36 | 3°51 | 12°45 | n.a. | T 25 |
| F 26 | 18 6 18 | 0♋46'34 | 12♌27 | 20°30 | 5°52 | 12°16 | 10°44 | 10°40 | 3°47 | 19°13 | 1°57 | 2°32 | 3°48 | 12°52 | n.a. | F 26 |
| S 27 | 18 10 15 | 1°43'51 | 26°13 | 22° 8 | 5°15 | 12°43 | 10°37 | 10°37 | 3°50 | 19°15 | 1°58 | 2°D30 | 3°45 | 12°59 | n.a. | S 27 |
| S 28 | 18 14 11 | 2°41'10 | 10♍ 7 | 23°45 | 4°39 | 13°10 | 10°30 | 10°34 | 3°54 | 19°17 | 1°59 | 2°30 | 3°42 | 13° 6 | n.a. | S 28 |
| M29 | 18 18 8 | 3°38'28 | 24° 8 | 25°20 | 4° 1 | 13°38 | 10°24 | 10°31 | 3°57 | 19°19 | 2° 0 | 2°31 | 3°39 | 13°12 | n.a. | M29 |
| T 30 | 18 22 5 | 4♋35'48 | 8♎15 | 26♋53 | 3♋24 | 14♎ 5 | 10♐17 | 10♒28 | 4♊ 0 | 19♊22 | 2♊ 2 | 2°R31 | 3♍36 | 13♈19 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 21n43 | 7n19 | 0n43 | 21n 1 | 0n28 | 24n12 | 0n58 | 1s57 | 0s32 | 22s30 | 0n13 | 18s51 | 1s22 | 20n50 | 0s 1 | 22n13 | 0s58 | 14n30 | 6s17 | 9n45 | 9n44 | 1n20 | | n.a. |
| T 2 | 21 52 | 2 48 | 1 55 | 21 37 | 0 38 | 24 1 | 0 49 | 2 4 | 0 34 | 22 29 | 0 13 | 18 51 | 1 22 | 20 51 | 0 1 | 22 14 | 0 58 | 14 30 | 6 17 | 9 45 | 9 45 | 1 22 | | n.a. |
| W 3 | 22 1 | 1s57 | 3 1 | 22 11 | 0 48 | 23 50 | 0 39 | 2 12 | 0 36 | 22 28 | 0 13 | 18 52 | 1 22 | 20 52 | 0 1 | 22 14 | 0 58 | 14 31 | 6 17 | 9 46 | 9 46 | 1 23 | | n.a. |
| T 4 | 22 10 | 6 38 | 3 56 | 22 43 | 0 57 | 23 39 | 0 29 | 2 20 | 0 38 | 22 28 | 0 12 | 18 52 | 1 23 | 20 52 | 0 1 | 22 14 | 0 58 | 14 31 | 6 17 | 9 48 | 9 48 | 1 25 | | n.a. |
| F 5 | 22 18 | 10 56 | 4 36 | 23 12 | 1 5 | 23 28 | 0 18 | 2 28 | 0 40 | 22 27 | 0 12 | 18 53 | 1 23 | 20 53 | 0 1 | 22 14 | 0 58 | 14 31 | 6 17 | 9 51 | 9 49 | 1 27 | | n.a. |
| S 6 | 22 26 | 14 35 | 4 57 | 23 38 | 1 13 | 23 17 | 0 7 | 2 37 | 0 42 | 22 26 | 0 12 | 18 53 | 1 23 | 20 54 | 0 1 | 22 14 | 0 58 | 14 32 | 6 17 | 9 54 | 9 50 | 1 29 | | n.a. |
| S 7 | 22 34 | 17 17 | 4 59 | 24 2 | 1 20 | 23 5 | 0s 4 | 2 45 | 0 44 | 22 25 | 0 12 | 18 54 | 1 23 | 20 55 | 0 1 | 22 15 | 0 58 | 14 32 | 6 17 | 9 58 | 9 51 | 1 31 | | n.a. |
| M 8 | 22 41 | 18 53 | 4 43 | 24 24 | 1 27 | 22 54 | 0 16 | 2 54 | 0 45 | 22 24 | 0 12 | 18 54 | 1 23 | 20 55 | 0 1 | 22 15 | 0 58 | 14 32 | 6 17 | 10 2 | 9 52 | 1 33 | | n.a. |
| T 9 | 22 48 | 19 17 | 4 10 | 24 42 | 1 32 | 22 42 | 0 28 | 3 3 | 0 47 | 22 23 | 0 12 | 18 55 | 1 24 | 20 56 | 0 1 | 22 15 | 0 58 | 14 33 | 6 17 | 10 6 | 9 53 | 1 35 | | n.a. |
| W10 | 22 54 | 18 34 | 3 23 | 24 58 | 1 37 | 22 30 | 0 40 | 3 12 | 0 49 | 22 23 | 0 11 | 18 56 | 1 24 | 20 57 | 0 1 | 22 15 | 0 57 | 14 33 | 6 17 | 10 9 | 9 55 | 1 37 | | n.a. |
| T 11 | 23 0 | 16 52 | 2 27 | 25 10 | 1 42 | 22 18 | 0 52 | 3 21 | 0 50 | 22 22 | 0 11 | 18 56 | 1 24 | 20 57 | 0 1 | 22 15 | 0 57 | 14 33 | 6 17 | 10 11 | 9 56 | 1 39 | | n.a. |
| F 12 | 23 6 | 14 22 | 1 25 | 25 20 | 1 45 | 22 6 | 1 5 | 3 31 | 0 52 | 22 21 | 0 11 | 18 57 | 1 24 | 20 58 | 0 1 | 22 16 | 0 57 | 14 33 | 6 17 | 10 12 | 9 57 | 1 41 | | n.a. |
| S 13 | 23 11 | 11 17 | 0 21 | 25 27 | 1 48 | 21 54 | 1 19 | 3 41 | 0 54 | 22 20 | 0 11 | 18 58 | 1 24 | 20 59 | 0 1 | 22 16 | 0 57 | 14 34 | 6 17 | 10 12 | 9 58 | 1 43 | | n.a. |
| S 14 | 23 16 | 7 47 | 0s44 | 25 32 | 1 51 | 21 41 | 1 32 | 3 50 | 0 55 | 22 19 | 0 11 | 18 58 | 1 25 | 20 59 | 0 1 | 22 16 | 0 57 | 14 34 | 6 17 | 10 12 | 9 59 | 1 45 | | n.a. |
| M15 | 23 20 | 4 1 | 1 45 | 25 34 | 1 52 | 21 29 | 1 46 | 4 0 | 0 57 | 22 18 | 0 11 | 18 59 | 1 25 | 21 0 | 0 1 | 22 16 | 0 57 | 14 34 | 6 17 | 10 12 | 10 0 | 1 47 | | n.a. |
| T 16 | 23 24 | 0 8 | 2 41 | 25 34 | 1 53 | 21 17 | 2 0 | 4 11 | 0 58 | 22 17 | 0 11 | 19 0 | 1 25 | 21 1 | 0 1 | 22 16 | 0 57 | 14 35 | 6 17 | 10 13 | 10 2 | 1 49 | | n.a. |
| W17 | 23 28 | 3n46 | 3 31 | 25 31 | 1 53 | 21 4 | 2 14 | 4 21 | 1 0 | 22 17 | 0 10 | 19 1 | 1 25 | 21 1 | 0 1 | 22 17 | 0 57 | 14 35 | 6 17 | 10 14 | 10 3 | 1 51 | | n.a. |
| T 18 | 23 31 | 7 31 | 4 11 | 25 25 | 1 53 | 20 52 | 2 28 | 4 31 | 1 1 | 22 16 | 0 10 | 19 1 | 1 25 | 21 2 | 0 1 | 22 17 | 0 57 | 14 35 | 6 17 | 10 15 | 10 4 | 1 53 | | n.a. |
| F 19 | 23 34 | 11 2 | 4 41 | 25 18 | 1 52 | 20 40 | 2 42 | 4 42 | 1 3 | 22 15 | 0 10 | 19 2 | 1 26 | 21 3 | 0 1 | 22 17 | 0 57 | 14 35 | 6 17 | 10 18 | 10 5 | 1 55 | | n.a. |
| S 20 | 23 36 | 14 8 | 4 59 | 25 9 | 1 50 | 20 27 | 2 56 | 4 53 | 1 4 | 22 14 | 0 10 | 19 3 | 1 26 | 21 3 | 0 1 | 22 17 | 0 57 | 14 36 | 6 17 | 10 22 | 10 6 | 1 57 | | n.a. |
| S 21 | 23 38 | 16 39 | 5 2 | 24 57 | 1 48 | 20 15 | 3 10 | 5 4 | 1 5 | 22 13 | 0 10 | 19 4 | 1 26 | 21 4 | 0 1 | 22 17 | 0 57 | 14 36 | 6 17 | 10 26 | 10 7 | 1 59 | | n.a. |
| M22 | 23 40 | 18 25 | 4 51 | 24 44 | 1 45 | 20 3 | 3 25 | 5 15 | 1 7 | 22 12 | 0 10 | 19 5 | 1 26 | 21 5 | 0 1 | 22 18 | 0 57 | 14 36 | 6 17 | 10 30 | 10 9 | 2 1 | | n.a. |
| T 23 | 23 41 | 19 16 | 4 25 | 24 29 | 1 42 | 19 51 | 3 38 | 5 26 | 1 8 | 22 12 | 0 9 | 19 6 | 1 26 | 21 5 | 0 1 | 22 18 | 0 57 | 14 36 | 6 17 | 10 34 | 10 10 | 2 3 | | n.a. |
| W24 | 23 42 | 19 6 | 3 44 | 24 12 | 1 38 | 19 39 | 3 52 | 5 37 | 1 9 | 22 11 | 0 9 | 19 7 | 1 27 | 21 6 | 0 1 | 22 18 | 0 57 | 14 37 | 6 17 | 10 37 | 10 11 | 2 5 | | n.a. |
| T 25 | 23 42 | 17 51 | 2 49 | 23 54 | 1 33 | 19 27 | 4 6 | 5 49 | 1 11 | 22 10 | 0 9 | 19 8 | 1 27 | 21 7 | 0 1 | 22 18 | 0 57 | 14 37 | 6 17 | 10 40 | 10 12 | 2 7 | | n.a. |
| F 26 | 23 42 | 15 34 | 1 45 | 23 35 | 1 29 | 19 16 | 4 19 | 6 0 | 1 12 | 22 9 | 0 9 | 19 9 | 1 27 | 21 7 | 0 1 | 22 18 | 0 57 | 14 37 | 6 17 | 10 41 | 10 13 | 2 9 | | n.a. |
| S 27 | 23 41 | 12 23 | 0 34 | 23 14 | 1 23 | 19 4 | 4 32 | 6 12 | 1 13 | 22 8 | 0 9 | 19 10 | 1 27 | 21 8 | 0 1 | 22 18 | 0 57 | 14 37 | 6 17 | 10 42 | 10 14 | 2 11 | | n.a. |
| S 28 | 23 40 | 8 29 | 0n41 | 22 52 | 1 18 | 18 53 | 4 44 | 6 24 | 1 14 | 22 7 | 0 9 | 19 11 | 1 27 | 21 9 | 0 1 | 22 19 | 0 57 | 14 38 | 6 17 | 10 42 | 10 16 | 2 13 | | n.a. |
| M29 | 23 39 | 4 5 | 1 53 | 22 28 | 1 11 | 18 42 | 4 56 | 6 35 | 1 15 | 22 7 | 0 8 | 19 12 | 1 28 | 21 9 | 0 1 | 22 19 | 0 57 | 14 38 | 6 17 | 10 41 | 10 17 | 2 15 | | n.a. |
| T 30 | 23n37 | 0s34 | 2n59 | 22n 4 | 1n 5 | 18n32 | 5s 7 | 6s47 | 1s17 | 22s 6 | 0n 8 | 19s13 | 1s28 | 21n10 | 0s 1 | 22n19 | 0s57 | 14n38 | 6s17 | 10n41 | 10n18 | 2n17 | | n.a. |

Julian Day Number = 1696372.5, Delta T = 03h07m50s
Ecliptic obliquity = 23°42'03, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°00'40, Lahiri = - 4°53'39 Julian Calendar 1 June 69 BCE == Greg. Calendar 30 May 069 BCE

The year -68 astronomical counting style corresponds to year 069 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 69 BCE
# geocentric

## JULY 69 BCE (-68) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 18 26 1 | 5♋33'08 | 22♎28 | 28♋24 | 2°R47 | 14♎34 | 10°R11 | 10°R25 | 4♊ 3 | 19♊24 | 2♊ 3 | 2°R30 | 3♍32 | 13♈26 | n.a. | W 1 |
| T 2 | 18 29 58 | 6°30'28 | 6♏44 | 29°54 | 2♋10 | 15° 2 | 10♐ 5 | 10♒21 | 4° 6 | 19°26 | 2° 4 | 2♍27 | 3°29 | 13°32 | n.a. | T 2 |
| F 3 | 18 33 54 | 7°27'50 | 21° 0 | 1♌21 | 1°34 | 15°31 | 9°59 | 10°18 | 4°10 | 19°28 | 2° 5 | 2°21 | 3°26 | 13°39 | n.a. | F 3 |
| S 4 | 18 37 51 | 8°25'12 | 5♐13 | 2°47 | 0°59 | 16° 0 | 9°53 | 10°15 | 4°13 | 19°30 | 2° 7 | 2°14 | 3°23 | 13°46 | n.a. | S 4 |
| S 5 | 18 41 47 | 9°22'35 | 19°17 | 4°11 | 0°25 | 16°30 | 9°47 | 10°11 | 4°16 | 19°32 | 2° 8 | 2° 6 | 3°20 | 13°52 | n.a. | S 5 |
| M 6 | 18 45 44 | 10°19'59 | 3♑10 | 5°33 | 29♊52 | 17° 0 | 9°41 | 10° 7 | 4°19 | 19°34 | 2° 9 | 1°57 | 3°16 | 13°59 | n.a. | M 6 |
| T 7 | 18 49 41 | 11°17'24 | 16°45 | 6°53 | 29°20 | 17°30 | 9°36 | 10° 4 | 4°22 | 19°37 | 2°10 | 1°50 | 3°13 | 14° 6 | n.a. | T 7 |
| W 8 | 18 53 37 | 12°14'51 | 0♒ 1 | 8°12 | 28°50 | 18° 0 | 9°30 | 10° 0 | 4°25 | 19°39 | 2°11 | 1°44 | 3°10 | 14°12 | n.a. | W 8 |
| T 9 | 18 57 34 | 13°12'18 | 12°57 | 9°28 | 28°22 | 18°31 | 9°25 | 9°56 | 4°28 | 19°41 | 2°12 | 1°40 | 3° 7 | 14°19 | n.a. | T 9 |
| F 10 | 19 1 30 | 14° 9'47 | 25°34 | 10°42 | 27°56 | 19° 2 | 9°20 | 9°52 | 4°31 | 19°43 | 2°14 | 1°38 | 3° 4 | 14°26 | n.a. | F 10 |
| S 11 | 19 5 27 | 15° 7'17 | 7♓53 | 11°54 | 27°32 | 19°34 | 9°15 | 9°49 | 4°34 | 19°45 | 2°15 | 1°D38 | 3° 1 | 14°32 | n.a. | S 11 |
| S 12 | 19 9 23 | 16° 4'49 | 19°58 | 13° 3 | 27°10 | 20° 5 | 9°10 | 9°45 | 4°37 | 19°47 | 2°16 | 1°39 | 2°57 | 14°39 | n.a. | S 12 |
| M13 | 19 13 20 | 17° 2'22 | 1♈54 | 14°11 | 26°50 | 20°37 | 9° 5 | 9°41 | 4°40 | 19°49 | 2°17 | 1°41 | 2°54 | 14°46 | n.a. | M13 |
| T 14 | 19 17 16 | 17°59'57 | 13°44 | 15°16 | 26°32 | 21° 9 | 9° 1 | 9°37 | 4°42 | 19°51 | 2°18 | 1°R42 | 2°51 | 14°52 | n.a. | T 14 |
| W15 | 19 21 13 | 18°57'33 | 25°36 | 16°18 | 26°17 | 21°42 | 8°57 | 9°32 | 4°45 | 19°53 | 2°19 | 1°42 | 2°48 | 14°59 | n.a. | W15 |
| T 16 | 19 25 9 | 19°55'11 | 7♉32 | 17°18 | 26° 4 | 22°15 | 8°52 | 9°28 | 4°48 | 19°55 | 2°20 | 1°40 | 2°45 | 15° 6 | n.a. | T 16 |
| F 17 | 19 29 6 | 20°52'51 | 19°39 | 18°16 | 25°54 | 22°48 | 8°48 | 9°24 | 4°51 | 19°57 | 2°21 | 1°37 | 2°42 | 15°12 | n.a. | F 17 |
| S 18 | 19 33 3 | 21°50'32 | 2♊ 0 | 19°10 | 25°46 | 23°21 | 8°45 | 9°20 | 4°53 | 19°59 | 2°22 | 1°32 | 2°38 | 15°19 | n.a. | S 18 |
| S 19 | 19 36 59 | 22°48'15 | 14°38 | 20° 1 | 25°41 | 23°54 | 8°41 | 9°16 | 4°56 | 20° 1 | 2°23 | 1°26 | 2°35 | 15°26 | n.a. | S 19 |
| M20 | 19 40 56 | 23°46'00 | 27°35 | 20°49 | 25°37 | 24°28 | 8°37 | 9°11 | 4°59 | 20° 3 | 2°24 | 1°19 | 2°32 | 15°32 | n.a. | M20 |
| T 21 | 19 44 52 | 24°43'46 | 10♋51 | 21°34 | 25°D37 | 25° 2 | 8°34 | 9° 7 | 5° 1 | 20° 5 | 2°25 | 1°13 | 2°29 | 15°39 | n.a. | T 21 |
| W22 | 19 48 49 | 25°41'34 | 24°25 | 22°15 | 25°38 | 25°37 | 8°31 | 9° 3 | 5° 4 | 20° 7 | 2°26 | 1° 8 | 2°26 | 15°46 | n.a. | W22 |
| T 23 | 19 52 45 | 26°39'24 | 8♌15 | 22°53 | 25°42 | 26°11 | 8°28 | 8°58 | 5° 7 | 20° 9 | 2°27 | 1° 5 | 2°22 | 15°53 | n.a. | T 23 |
| F 24 | 19 56 42 | 27°37'14 | 22°18 | 23°26 | 25°48 | 26°46 | 8°25 | 8°54 | 5° 9 | 20°10 | 2°28 | 1° 3 | 2°19 | 15°59 | n.a. | F 24 |
| S 25 | 20 0 39 | 28°35'07 | 6♍28 | 23°55 | 25°56 | 27°21 | 8°22 | 8°49 | 5°11 | 20°12 | 2°29 | 1°D 3 | 2°16 | 16° 6 | n.a. | S 25 |
| S 26 | 20 4 35 | 29°33'00 | 20°44 | 24°20 | 26° 6 | 27°56 | 8°20 | 8°45 | 5°14 | 20°14 | 2°30 | 1° 4 | 2°13 | 16°13 | n.a. | S 26 |
| M27 | 20 8 32 | 0♌30'55 | 5♎ 1 | 24°40 | 26°19 | 28°32 | 8°18 | 8°40 | 5°16 | 20°16 | 2°30 | 1° 5 | 2°10 | 16°19 | n.a. | M27 |
| T 28 | 20 12 28 | 1°28'52 | 19°17 | 24°55 | 26°33 | 29° 7 | 8°16 | 8°36 | 5°19 | 20°18 | 2°31 | 1° 6 | 2° 7 | 16°26 | n.a. | T 28 |
| W29 | 20 16 25 | 2°26'50 | 3♏29 | 25° 4 | 26°49 | 29°43 | 8°14 | 8°31 | 5°21 | 20°19 | 2°32 | 1°R 7 | 2° 3 | 16°33 | n.a. | W29 |
| T 30 | 20 20 21 | 3°24'49 | 17°35 | 25°R 8 | 27° 8 | 0♏19 | 8°12 | 8°27 | 5°23 | 20°21 | 2°33 | 1° 6 | 2° 0 | 16°39 | n.a. | T 30 |
| F 31 | 20 24 18 | 4♌22'49 | 1♐34 | 25♌ 7 | 27♊28 | 0♏56 | 8♐11 | 8♒22 | 5♊25 | 20♊23 | 2♊34 | 1♍ 4 | 1♍57 | 16♈46 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| W 1 | 23n35 | 5s12 | 3n55 | 21n39 | 0n58 | 18n22 | 5s18 | 7s 0 | 1s18 | 22s 5 | 0n 8 | 19s14 | 1s28 | 21n10 | 0s 1 | 22n19 | 0s57 | 14n38 | 6s17 | 10n42 | 10n19 | 2n19 | | | n.a. |
| T 2 | 23 32 | 9 34 | 4 36 | 21 13 | 0 51 | 18 13 | 5 28 | 7 12 | 1 19 | 22 4 | 0 8 | 19 15 | 1 28 | 21 11 | 0 1 | 22 19 | 0 57 | 14 38 | 6 17 | 10 43 | 10 20 | 2 21 | | | n.a. |
| F 3 | 23 29 | 13 23 | 5 0 | 20 47 | 0 43 | 18 3 | 5 38 | 7 24 | 1 20 | 22 4 | 0 8 | 19 16 | 1 28 | 21 12 | 0 1 | 22 20 | 0 57 | 14 39 | 6 17 | 10 45 | 10 21 | 2 23 | | | n.a. |
| S 4 | 23 26 | 16 24 | 5 6 | 20 19 | 0 35 | 17 55 | 5 47 | 7 36 | 1 21 | 22 3 | 0 8 | 19 17 | 1 28 | 21 12 | 0 1 | 22 20 | 0 57 | 14 39 | 6 17 | 10 48 | 10 23 | 2 25 | | | n.a. |
| S 5 | 23 22 | 18 24 | 4 52 | 19 51 | 0 27 | 17 47 | 5 55 | 7 49 | 1 22 | 22 2 | 0 7 | 19 18 | 1 29 | 21 13 | 0 1 | 22 20 | 0 57 | 14 39 | 6 17 | 10 51 | 10 24 | 2 27 | | | n.a. |
| M 6 | 23 18 | 19 18 | 4 22 | 19 23 | 0 18 | 17 39 | 6 3 | 8 1 | 1 23 | 22 2 | 0 7 | 19 19 | 1 29 | 21 13 | 0 1 | 22 20 | 0 57 | 14 39 | 6 17 | 10 54 | 10 25 | 2 29 | | | n.a. |
| T 7 | 23 13 | 19 2 | 3 38 | 18 54 | 0 9 | 17 33 | 6 9 | 8 14 | 1 24 | 22 1 | 0 7 | 19 20 | 1 29 | 21 14 | 0 1 | 22 20 | 0 57 | 14 39 | 6 17 | 10 56 | 10 26 | 2 31 | | | n.a. |
| W 8 | 23 8 | 17 44 | 2 42 | 18 25 | 0 0 | 17 26 | 6 15 | 8 27 | 1 25 | 22 0 | 0 7 | 19 22 | 1 29 | 21 15 | 0 1 | 22 20 | 0 57 | 14 40 | 6 17 | 10 58 | 10 27 | 2 33 | | | n.a. |
| T 9 | 23 2 | 15 32 | 1 39 | 17 56 | 0s 9 | 17 21 | 6 21 | 8 39 | 1 26 | 22 0 | 0 7 | 19 23 | 1 29 | 21 15 | 0 1 | 22 20 | 0 57 | 14 40 | 6 17 | 11 0 | 10 28 | 2 35 | | | n.a. |
| F 10 | 22 56 | 12 38 | 0 33 | 17 27 | 0 19 | 17 16 | 6 25 | 8 52 | 1 27 | 21 59 | 0 7 | 19 24 | 1 29 | 21 16 | 0 1 | 22 21 | 0 57 | 14 40 | 6 17 | 11 0 | 10 30 | 2 37 | | | n.a. |
| S 11 | 22 50 | 9 14 | 0s34 | 16 57 | 0 29 | 17 11 | 6 29 | 9 5 | 1 28 | 21 58 | 0 6 | 19 25 | 1 29 | 21 16 | 0 1 | 22 21 | 0 57 | 14 40 | 6 18 | 11 0 | 10 31 | 2 39 | | | n.a. |
| S 12 | 22 43 | 5 31 | 1 38 | 16 28 | 0 39 | 17 8 | 6 33 | 9 18 | 1 29 | 21 58 | 0 6 | 19 26 | 1 30 | 21 17 | 0 1 | 22 21 | 0 57 | 14 40 | 6 18 | 11 0 | 10 32 | 2 41 | | | n.a. |
| M13 | 22 36 | 1 38 | 2 36 | 15 58 | 0 49 | 17 5 | 6 35 | 9 31 | 1 30 | 21 57 | 0 6 | 19 28 | 1 30 | 21 17 | 0 1 | 22 21 | 0 57 | 14 40 | 6 18 | 11 0 | 10 33 | 2 43 | | | n.a. |
| T 14 | 22 29 | 2n17 | 3 28 | 15 29 | 0 59 | 17 2 | 6 37 | 9 44 | 1 30 | 21 57 | 0 6 | 19 29 | 1 30 | 21 18 | 0 1 | 22 21 | 0 57 | 14 41 | 6 18 | 10 59 | 10 34 | 2 45 | | | n.a. |
| W15 | 22 21 | 6 6 | 4 11 | 15 1 | 1 10 | 17 0 | 6 39 | 9 57 | 1 31 | 21 56 | 0 6 | 19 30 | 1 30 | 21 18 | 0 1 | 22 21 | 0 57 | 14 41 | 6 18 | 10 59 | 10 35 | 2 47 | | | n.a. |
| T 16 | 22 12 | 9 43 | 4 43 | 14 32 | 1 21 | 16 59 | 6 39 | 10 10 | 1 32 | 21 56 | 0 6 | 19 31 | 1 30 | 21 19 | 0 1 | 22 22 | 0 57 | 14 41 | 6 18 | 11 0 | 10 36 | 2 49 | | | n.a. |
| F 17 | 22 4 | 12 58 | 5 4 | 14 4 | 1 32 | 16 59 | 6 40 | 10 24 | 1 33 | 21 55 | 0 5 | 19 33 | 1 30 | 21 19 | 0 1 | 22 22 | 0 57 | 14 41 | 6 18 | 11 1 | 10 38 | 2 51 | | | n.a. |
| S 18 | 21 54 | 15 43 | 5 10 | 13 37 | 1 42 | 16 59 | 6 39 | 10 37 | 1 34 | 21 55 | 0 5 | 19 34 | 1 30 | 21 20 | 0 1 | 22 22 | 0 57 | 14 41 | 6 18 | 11 3 | 10 39 | 2 53 | | | n.a. |
| S 19 | 21 45 | 17 48 | 5 2 | 13 10 | 1 53 | 16 59 | 6 38 | 10 50 | 1 34 | 21 54 | 0 5 | 19 35 | 1 31 | 21 20 | 0 1 | 22 22 | 0 57 | 14 41 | 6 18 | 11 5 | 10 40 | 2 55 | | | n.a. |
| M20 | 21 35 | 19 2 | 4 39 | 12 45 | 2 5 | 17 1 | 6 37 | 11 3 | 1 35 | 21 54 | 0 5 | 19 37 | 1 31 | 21 21 | 0 1 | 22 22 | 0 57 | 14 41 | 6 18 | 11 7 | 10 41 | 2 57 | | | n.a. |
| T 21 | 21 25 | 19 16 | 4 0 | 12 20 | 2 16 | 17 2 | 6 35 | 11 17 | 1 36 | 21 54 | 0 5 | 19 38 | 1 31 | 21 21 | 0 1 | 22 22 | 0 57 | 14 42 | 6 18 | 11 10 | 10 42 | 2 59 | | | n.a. |
| W22 | 21 14 | 18 25 | 3 6 | 11 56 | 2 27 | 17 5 | 6 33 | 11 30 | 1 37 | 21 53 | 0 5 | 19 39 | 1 31 | 21 22 | 0 1 | 22 22 | 0 57 | 14 42 | 6 18 | 11 11 | 10 43 | 3 1 | | | n.a. |
| T 23 | 21 3 | 16 27 | 2 1 | 11 34 | 2 37 | 17 7 | 6 31 | 11 44 | 1 37 | 21 53 | 0 5 | 19 40 | 1 31 | 21 22 | 0 1 | 22 23 | 0 57 | 14 42 | 6 18 | 11 13 | 10 45 | 3 3 | | | n.a. |
| F 24 | 20 52 | 13 29 | 0 48 | 11 13 | 2 48 | 17 10 | 6 28 | 11 57 | 1 38 | 21 53 | 0 4 | 19 42 | 1 31 | 21 23 | 0 1 | 22 23 | 0 57 | 14 42 | 6 18 | 11 13 | 10 46 | 3 5 | | | n.a. |
| S 25 | 20 40 | 9 41 | 0n30 | 10 53 | 2 59 | 17 14 | 6 25 | 12 10 | 1 39 | 21 52 | 0 4 | 19 43 | 1 31 | 21 23 | 0 1 | 22 23 | 0 57 | 14 42 | 6 18 | 11 13 | 10 47 | 3 7 | | | n.a. |
| S 26 | 20 28 | 5 20 | 1 46 | 10 35 | 3 9 | 17 18 | 6 21 | 12 24 | 1 39 | 21 52 | 0 4 | 19 44 | 1 31 | 21 24 | 0 1 | 22 23 | 0 57 | 14 42 | 6 18 | 11 13 | 10 48 | 3 9 | | | n.a. |
| M27 | 20 16 | 0 40 | 2 55 | 10 19 | 3 19 | 17 22 | 6 17 | 12 37 | 1 40 | 21 52 | 0 4 | 19 46 | 1 32 | 21 24 | 0 1 | 22 23 | 0 57 | 14 42 | 6 18 | 11 12 | 10 49 | 3 11 | | | n.a. |
| T 28 | 20 3 | 4s 1 | 3 54 | 10 5 | 3 29 | 17 26 | 6 13 | 12 51 | 1 41 | 21 52 | 0 4 | 19 47 | 1 32 | 21 25 | 0 1 | 22 23 | 0 57 | 14 42 | 6 19 | 11 12 | 10 50 | 3 13 | | | n.a. |
| W29 | 19 50 | 8 27 | 4 38 | 9 53 | 3 38 | 17 31 | 6 9 | 13 4 | 1 41 | 21 52 | 0 4 | 19 48 | 1 32 | 21 25 | 0 1 | 22 23 | 0 57 | 14 42 | 6 19 | 11 12 | 10 51 | 3 15 | | | n.a. |
| T 30 | 19 36 | 12 23 | 5 5 | 9 43 | 3 47 | 17 36 | 6 4 | 13 18 | 1 42 | 21 51 | 0 3 | 19 50 | 1 32 | 21 25 | 0 1 | 22 23 | 0 58 | 14 42 | 6 19 | 11 12 | 10 53 | 3 17 | | | n.a. |
| F 31 | 19n22 | 15s35 | 5n14 | 9n36 | 3s55 | 17n42 | 5s59 | 13s31 | 1s42 | 21s51 | 0n 3 | 19s51 | 1s32 | 21n26 | 0s 1 | 22n24 | 0s58 | 14n42 | 6s19 | 11n13 | 10n54 | 3n19 | | | n.a. |

Julian Day Number = 1696402.5, Delta T = 03h07m49s
Ecliptic obliquity = 23°42'03, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°00'35, Lahiri = - 4°53'35 Julian Calendar 1 July 69 BCE == Greg. Calendar 29 June 069 BCE

The year -68 astronomical counting style corresponds to year 069 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 69 BCE
# geocentric

## AUGUST 69 BCE (-68) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 28 14 | 5♌20'52 | 15♐23 | 24°R59 | 27♊50 | 1♏32 | 8°R 9 | 8°R18 | 5♊28 | 20♊25 | 2♊34 | 1°R 1 | 1♍54 | 16♈53 | n.a. | S 1 |
| S 2 | 20 32 11 | 6°18'55 | 29° 1 | 24♌46 | 28°13 | 2° 9 | 8♐ 8 | 8♒13 | 5°30 | 20°26 | 2°35 | 0♍58 | 1°51 | 16°59 | n.a. | S 2 |
| M 3 | 20 36 7 | 7°17'01 | 12♑27 | 24°26 | 28°39 | 2°46 | 8° 7 | 8° 8 | 5°32 | 20°28 | 2°36 | 0°54 | 1°48 | 17° 6 | n.a. | M 3 |
| T 4 | 20 40 4 | 8°15'08 | 25°38 | 23°59 | 29° 5 | 3°23 | 8° 7 | 8° 4 | 5°34 | 20°30 | 2°37 | 0°51 | 1°44 | 17°13 | n.a. | T 4 |
| W 5 | 20 44 1 | 9°13'16 | 8♒34 | 23°27 | 29°34 | 4° 0 | 8° 6 | 7°59 | 5°36 | 20°31 | 2°37 | 0°49 | 1°41 | 17°19 | n.a. | W 5 |
| T 6 | 20 47 57 | 10°11'27 | 21°15 | 22°49 | 0♋ 4 | 4°38 | 8° 6 | 7°55 | 5°38 | 20°33 | 2°38 | 0°47 | 1°38 | 17°26 | n.a. | T 6 |
| F 7 | 20 51 54 | 11° 9'39 | 3♓41 | 22° 5 | 0°36 | 5°16 | 8°D 6 | 7°50 | 5°40 | 20°34 | 2°39 | 0°D47 | 1°35 | 17°33 | n.a. | F 7 |
| S 8 | 20 55 50 | 12° 7'54 | 15°54 | 21°16 | 1° 8 | 5°53 | 8° 6 | 7°46 | 5°42 | 20°36 | 2°39 | 0°48 | 1°32 | 17°39 | n.a. | S 8 |
| S 9 | 20 59 47 | 13° 6'10 | 27°56 | 20°23 | 1°43 | 6°32 | 8° 6 | 7°41 | 5°44 | 20°37 | 2°40 | 0°49 | 1°28 | 17°46 | n.a. | S 9 |
| M10 | 21 3 43 | 14° 4'28 | 9♈51 | 19°26 | 2°18 | 7°10 | 8° 6 | 7°36 | 5°46 | 20°39 | 2°40 | 0°50 | 1°25 | 17°53 | n.a. | M10 |
| T 11 | 21 7 40 | 15° 2'49 | 21°41 | 18°26 | 2°55 | 7°48 | 8° 7 | 7°32 | 5°47 | 20°40 | 2°41 | 0°52 | 1°22 | 18° 0 | n.a. | T 11 |
| W12 | 21 11 36 | 16° 1'12 | 3♉32 | 17°26 | 3°33 | 8°27 | 8° 8 | 7°27 | 5°49 | 20°42 | 2°42 | 0°53 | 1°19 | 18° 6 | n.a. | W12 |
| T 13 | 21 15 33 | 16°59'37 | 15°29 | 16°25 | 4°13 | 9° 5 | 8° 9 | 7°23 | 5°51 | 20°43 | 2°42 | 0°R53 | 1°16 | 18°13 | n.a. | T 13 |
| F 14 | 21 19 30 | 17°58'04 | 27°35 | 15°26 | 4°53 | 9°44 | 8°10 | 7°18 | 5°52 | 20°45 | 2°43 | 0°53 | 1°13 | 18°20 | n.a. | F 14 |
| S 15 | 21 23 26 | 18°56'34 | 9♊55 | 14°30 | 5°35 | 10°23 | 8°11 | 7°14 | 5°54 | 20°46 | 2°43 | 0°52 | 1° 9 | 18°26 | n.a. | S 15 |
| S 16 | 21 27 23 | 19°55'06 | 22°34 | 13°38 | 6°17 | 11° 3 | 8°13 | 7°10 | 5°55 | 20°47 | 2°44 | 0°51 | 1° 6 | 18°33 | n.a. | S 16 |
| M17 | 21 31 19 | 20°53'40 | 5♋34 | 12°51 | 7° 1 | 11°42 | 8°15 | 7° 5 | 5°57 | 20°49 | 2°44 | 0°50 | 1° 3 | 18°40 | n.a. | M17 |
| T 18 | 21 35 16 | 21°52'16 | 18°58 | 12°11 | 7°45 | 12°21 | 8°17 | 7° 1 | 5°58 | 20°50 | 2°44 | 0°48 | 1° 0 | 18°46 | n.a. | T 18 |
| W19 | 21 39 12 | 22°50'55 | 2♌45 | 11°39 | 8°31 | 13° 1 | 8°19 | 6°56 | 6° 0 | 20°51 | 2°45 | 0°47 | 0°57 | 18°53 | n.a. | W19 |
| T 20 | 21 43 9 | 23°49'35 | 16°53 | 11°16 | 9°17 | 13°41 | 8°21 | 6°52 | 6° 1 | 20°52 | 2°45 | 0°47 | 0°53 | 19° 0 | n.a. | T 20 |
| F 21 | 21 47 5 | 24°48'18 | 1♍19 | 11° 2 | 10° 4 | 14°21 | 8°23 | 6°48 | 6° 2 | 20°54 | 2°46 | 0°D47 | 0°50 | 19° 6 | n.a. | F 21 |
| S 22 | 21 51 2 | 25°47'03 | 15°56 | 10°D57 | 10°52 | 15° 1 | 8°26 | 6°44 | 6° 4 | 20°55 | 2°46 | 0°47 | 0°47 | 19°13 | n.a. | S 22 |
| S 23 | 21 54 59 | 26°45'49 | 0♎39 | 11° 2 | 11°41 | 15°41 | 8°29 | 6°40 | 6° 5 | 20°56 | 2°46 | 0°47 | 0°44 | 19°20 | n.a. | S 23 |
| M24 | 21 58 55 | 27°44'38 | 15°20 | 11°17 | 12°31 | 16°22 | 8°32 | 6°35 | 6° 6 | 20°57 | 2°46 | 0°48 | 0°41 | 19°26 | n.a. | M24 |
| T 25 | 22 2 52 | 28°43'28 | 29°55 | 11°41 | 13°21 | 17° 2 | 8°35 | 6°31 | 6° 7 | 20°58 | 2°47 | 0°48 | 0°38 | 19°33 | n.a. | T 25 |
| W26 | 22 6 48 | 29°42'21 | 14♏17 | 12°15 | 14°12 | 17°43 | 8°39 | 6°27 | 6° 8 | 20°59 | 2°47 | 0°48 | 0°34 | 19°40 | n.a. | W26 |
| T 27 | 22 10 45 | 0♍41'15 | 28°25 | 12°57 | 15° 4 | 18°24 | 8°42 | 6°23 | 6° 9 | 21° 0 | 2°47 | 0°48 | 0°31 | 19°47 | n.a. | T 27 |
| F 28 | 22 14 41 | 1°40'11 | 12♐16 | 13°49 | 15°57 | 19° 5 | 8°46 | 6°19 | 6°10 | 21° 1 | 2°47 | 0°48 | 0°28 | 19°53 | n.a. | F 28 |
| S 29 | 22 18 38 | 2°39'09 | 25°50 | 14°47 | 16°50 | 19°46 | 8°50 | 6°16 | 6°11 | 21° 2 | 2°48 | 0°48 | 0°25 | 20° 0 | n.a. | S 29 |
| S 30 | 22 22 34 | 3°38'08 | 9♑ 8 | 15°53 | 17°43 | 20°27 | 8°54 | 6°12 | 6°12 | 21° 3 | 2°48 | 0°48 | 0°22 | 20° 7 | n.a. | S 30 |
| M31 | 22 26 31 | 4♍37'10 | 22♑11 | 17♌ 6 | 18♋38 | 21♏ 9 | 8♐59 | 6♒ 8 | 6♊12 | 21♊ 4 | 2♊48 | 0♍49 | 0♍19 | 20♈13 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 19n 8 | 17s51 | 5n 4 | 9n32 | 4s 2 | 17n47 | 5s54 | 13s44 | 1s43 | 21s51 | 0n 3 | 19s52 | 1s32 | 21n26 | 0s 1 | 22n24 | 0s58 | 14n43 | 6s19 | 11n14 | 10n55 | 3n21 | | n.a. |
| S 2 | 18 54 | 19 5 | 4 37 | 9 30 | 4 9 | 17 53 | 5 49 | 13 58 | 1 43 | 21 51 | 0 3 | 19 53 | 1 32 | 21 27 | 0 1 | 22 24 | 0 58 | 14 43 | 6 19 | 11 15 | 10 56 | 3 23 | | n.a. |
| M 3 | 18 39 | 19 12 | 3 55 | 9 32 | 4 14 | 17 58 | 5 43 | 14 11 | 1 44 | 21 51 | 0 3 | 19 55 | 1 32 | 21 27 | 0 1 | 22 24 | 0 58 | 14 43 | 6 19 | 11 16 | 10 57 | 3 25 | | n.a. |
| T 4 | 18 24 | 18 16 | 3 2 | 9 37 | 4 18 | 18 4 | 5 38 | 14 25 | 1 44 | 21 51 | 0 3 | 19 56 | 1 32 | 21 27 | 0 1 | 22 24 | 0 58 | 14 43 | 6 19 | 11 17 | 10 58 | 3 27 | | n.a. |
| W 5 | 18 9 | 16 24 | 1 59 | 9 45 | 4 20 | 18 10 | 5 32 | 14 38 | 1 45 | 21 51 | 0 3 | 19 57 | 1 32 | 21 28 | 0 1 | 22 24 | 0 58 | 14 43 | 6 19 | 11 18 | 10 59 | 3 29 | | n.a. |
| T 6 | 17 53 | 13 45 | 0 52 | 9 56 | 4 22 | 18 16 | 5 26 | 14 51 | 1 45 | 21 51 | 0 2 | 19 59 | 1 32 | 21 28 | 0 1 | 22 24 | 0 58 | 14 43 | 6 19 | 11 19 | 11 1 | 3 31 | | n.a. |
| F 7 | 17 37 | 10 31 | 0s16 | 10 11 | 4 21 | 18 22 | 5 20 | 15 5 | 1 46 | 21 52 | 0 2 | 20 0 | 1 32 | 21 29 | 0 1 | 22 24 | 0 58 | 14 43 | 6 19 | 11 19 | 11 2 | 3 33 | | n.a. |
| S 8 | 17 21 | 6 53 | 1 23 | 10 29 | 4 19 | 18 27 | 5 14 | 15 18 | 1 46 | 21 52 | 0 2 | 20 1 | 1 33 | 21 29 | 0 1 | 22 24 | 0 58 | 14 43 | 6 19 | 11 19 | 11 3 | 3 35 | | n.a. |
| S 9 | 17 4 | 3 2 | 2 25 | 10 50 | 4 15 | 18 33 | 5 8 | 15 31 | 1 47 | 21 52 | 0 2 | 20 2 | 1 33 | 21 29 | 0 1 | 22 24 | 0 58 | 14 43 | 6 20 | 11 18 | 11 4 | 3 37 | | n.a. |
| M10 | 16 47 | 0n53 | 3 20 | 11 13 | 4 8 | 18 39 | 5 2 | 15 44 | 1 47 | 21 52 | 0 2 | 20 4 | 1 33 | 21 30 | 0 1 | 22 25 | 0 58 | 14 43 | 6 20 | 11 18 | 11 5 | 3 39 | | n.a. |
| T 11 | 16 30 | 4 45 | 4 6 | 11 40 | 4 0 | 18 44 | 4 56 | 15 57 | 1 47 | 21 52 | 0 2 | 20 5 | 1 33 | 21 30 | 0 1 | 22 25 | 0 58 | 14 43 | 6 20 | 11 17 | 11 6 | 3 40 | | n.a. |
| W12 | 16 12 | 8 25 | 4 42 | 12 8 | 3 50 | 18 50 | 4 49 | 16 10 | 1 48 | 21 53 | 0 2 | 20 6 | 1 33 | 21 30 | 0 1 | 22 25 | 0 58 | 14 43 | 6 20 | 11 17 | 11 7 | 3 42 | | n.a. |
| T 13 | 15 55 | 11 47 | 5 5 | 12 37 | 3 38 | 18 55 | 4 43 | 16 23 | 1 48 | 21 53 | 0 1 | 20 7 | 1 33 | 21 30 | 0 1 | 22 25 | 0 58 | 14 43 | 6 20 | 11 17 | 11 9 | 3 44 | | n.a. |
| F 14 | 15 37 | 14 42 | 5 16 | 13 8 | 3 24 | 19 0 | 4 36 | 16 36 | 1 48 | 21 53 | 0 1 | 20 9 | 1 33 | 21 31 | 0 1 | 22 25 | 0 58 | 14 43 | 6 20 | 11 17 | 11 10 | 3 46 | | n.a. |
| S 15 | 15 18 | 17 1 | 5 13 | 13 39 | 3 9 | 19 5 | 4 30 | 16 49 | 1 49 | 21 54 | 0 1 | 20 10 | 1 33 | 21 31 | 0 1 | 22 25 | 0 58 | 14 43 | 6 20 | 11 17 | 11 11 | 3 48 | | n.a. |
| S 16 | 15 0 | 18 35 | 4 54 | 14 10 | 2 52 | 19 10 | 4 23 | 17 2 | 1 49 | 21 54 | 0 1 | 20 11 | 1 33 | 21 31 | 0 0 | 22 25 | 0 58 | 14 43 | 6 20 | 11 17 | 11 12 | 3 50 | | n.a. |
| M17 | 14 41 | 19 15 | 4 21 | 14 40 | 2 34 | 19 14 | 4 17 | 17 14 | 1 49 | 21 54 | 0 1 | 20 12 | 1 33 | 21 32 | 0 0 | 22 25 | 0 58 | 14 43 | 6 20 | 11 18 | 11 13 | 3 52 | | n.a. |
| T 18 | 14 22 | 18 51 | 3 32 | 15 9 | 2 16 | 19 19 | 4 10 | 17 27 | 1 50 | 21 55 | 0 1 | 20 13 | 1 33 | 21 32 | 0 0 | 22 25 | 0 58 | 14 43 | 6 20 | 11 18 | 11 14 | 3 54 | | n.a. |
| W19 | 14 3 | 17 20 | 2 29 | 15 37 | 1 57 | 19 23 | 4 3 | 17 40 | 1 50 | 21 55 | 0 1 | 20 14 | 1 33 | 21 32 | 0 0 | 22 25 | 0 58 | 14 43 | 6 20 | 11 19 | 11 15 | 3 56 | | n.a. |
| T 20 | 13 43 | 14 44 | 1 16 | 16 2 | 1 37 | 19 26 | 3 57 | 17 52 | 1 50 | 21 56 | 0 0 | 20 16 | 1 33 | 21 32 | 0 0 | 22 25 | 0 58 | 14 43 | 6 21 | 11 19 | 11 17 | 3 58 | | n.a. |
| F 21 | 13 24 | 11 10 | 0n 3 | 16 24 | 1 18 | 19 29 | 3 50 | 18 4 | 1 50 | 21 56 | 0 0 | 20 17 | 1 33 | 21 33 | 0 0 | 22 25 | 0 58 | 14 43 | 6 21 | 11 19 | 11 18 | 4 0 | | n.a. |
| S 22 | 13 4 | 6 53 | 1 23 | 16 44 | 0 59 | 19 32 | 3 43 | 18 17 | 1 51 | 21 57 | 0 0 | 20 18 | 1 33 | 21 33 | 0 0 | 22 25 | 0 58 | 14 43 | 6 21 | 11 19 | 11 19 | 4 2 | | n.a. |
| S 23 | 12 44 | 2 9 | 2 38 | 17 1 | 0 40 | 19 35 | 3 37 | 18 29 | 1 51 | 21 58 | 0 0 | 20 19 | 1 33 | 21 33 | 0 0 | 22 25 | 0 58 | 14 43 | 6 21 | 11 19 | 11 20 | 4 4 | | n.a. |
| M24 | 12 23 | 2s41 | 3 43 | 17 14 | 0 22 | 19 37 | 3 30 | 18 41 | 1 51 | 21 58 | 0s 0 | 20 20 | 1 33 | 21 33 | 0 0 | 22 26 | 0 58 | 14 43 | 6 21 | 11 19 | 11 21 | 4 6 | | n.a. |
| T 25 | 12 3 | 7 19 | 4 33 | 17 23 | 0 5 | 19 39 | 3 23 | 18 53 | 1 51 | 21 59 | 0 0 | 20 21 | 1 33 | 21 33 | 0 0 | 22 26 | 0 58 | 14 43 | 6 21 | 11 19 | 11 22 | 4 8 | | n.a. |
| W26 | 11 42 | 11 27 | 5 5 | 17 29 | 0n11 | 19 41 | 3 17 | 19 5 | 1 51 | 21 59 | 0 0 | 20 22 | 1 33 | 21 34 | 0 0 | 22 26 | 0 58 | 14 43 | 6 21 | 11 19 | 11 23 | 4 10 | | n.a. |
| T 27 | 11 21 | 14 52 | 5 17 | 17 31 | 0 26 | 19 42 | 3 10 | 19 17 | 1 51 | 22 0 | 0 0 | 20 23 | 1 33 | 21 34 | 0 0 | 22 26 | 0 58 | 14 43 | 6 21 | 11 19 | 11 25 | 4 12 | | n.a. |
| F 28 | 11 0 | 17 22 | 5 11 | 17 30 | 0 40 | 19 42 | 3 3 | 19 28 | 1 52 | 22 1 | 0 1 | 20 24 | 1 33 | 21 34 | 0 0 | 22 26 | 0 58 | 14 43 | 6 21 | 11 19 | 11 26 | 4 14 | | n.a. |
| S 29 | 10 38 | 18 50 | 4 48 | 17 25 | 0 52 | 19 43 | 2 57 | 19 40 | 1 52 | 22 2 | 0 1 | 20 25 | 1 33 | 21 34 | 0 0 | 22 26 | 0 58 | 14 43 | 6 21 | 11 19 | 11 27 | 4 16 | | n.a. |
| S 30 | 10 17 | 19 14 | 4 9 | 17 16 | 1 4 | 19 42 | 2 50 | 19 51 | 1 52 | 22 2 | 0 1 | 20 26 | 1 33 | 21 34 | 0 0 | 22 26 | 0 58 | 14 43 | 6 21 | 11 18 | 11 28 | 4 18 | | n.a. |
| M31 | 9n55 | 18s35 | 3n19 | 17n 3 | 1n14 | 19n42 | 2s43 | 20s 2 | 1s52 | 22s 3 | 0s 1 | 20s27 | 1s33 | 21n34 | 0s 0 | 22n26 | 0s58 | 14n42 | 6s22 | 11n18 | 11n29 | 4n20 | | n.a. |

Julian Day Number = 1696433.5, Delta T = 03h07m48s
Ecliptic obliquity = 23°42'04, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°00'31, Lahiri = - 4°53'31 Julian Calendar 1 Aug. 69 BCE == Greg. Calendar 30 July 069 BCE

The year -68 astronomical counting style corresponds to year 069 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 69 BCE
# geocentric

## SEPTEMBER 69 BCE (-68) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 22 30 27 | 5♍36'13 | 4♒59 | 18♌24 | 19♋33 | 21♏50 | 9♐ 3 | 6°R 4 | 6♊13 | 21♊ 5 | 2♊48 | 0♍49 | 0♍15 | 20♈20 | n.a. | T 1 |
| W 2 | 22 34 24 | 6°35'19 | 17°34 | 19°47 | 20°28 | 22°32 | 9° 8 | 6♒ 1 | 6°14 | 21° 6 | 2°48 | 0°49 | 0°12 | 20°27 | n.a. | W 2 |
| T 3 | 22 38 21 | 7°34'26 | 29°58 | 21°15 | 21°25 | 23°13 | 9°13 | 5°57 | 6°14 | 21° 7 | 2°48 | 0°R50 | 0° 9 | 20°33 | n.a. | T 3 |
| F 4 | 22 42 17 | 8°33'36 | 12♓11 | 22°46 | 22°21 | 23°55 | 9°18 | 5°54 | 6°15 | 21° 7 | 2°48 | 0°49 | 0° 6 | 20°40 | n.a. | F 4 |
| S 5 | 22 46 14 | 9°32'47 | 24°16 | 24°21 | 23°18 | 24°37 | 9°23 | 5°50 | 6°16 | 21° 8 | 2°R48 | 0°49 | 0° 3 | 20°47 | n.a. | S 5 |
| S 6 | 22 50 10 | 10°32'01 | 6♈13 | 25°58 | 24°16 | 25°19 | 9°28 | 5°47 | 6°16 | 21° 9 | 2°48 | 0°48 | 29♌59 | 20°53 | n.a. | S 6 |
| M 7 | 22 54 7 | 11°31'17 | 18° 5 | 27°37 | 25°14 | 26° 1 | 9°34 | 5°44 | 6°16 | 21° 9 | 2°48 | 0°46 | 29°56 | 21° 0 | n.a. | M 7 |
| T 8 | 22 58 3 | 12°30'36 | 29°55 | 29°18 | 26°13 | 26°44 | 9°39 | 5°40 | 6°17 | 21°10 | 2°48 | 0°45 | 29°53 | 21° 7 | n.a. | T 8 |
| W 9 | 23 2 0 | 13°29'56 | 11♉46 | 1♍ 1 | 27°12 | 27°26 | 9°45 | 5°37 | 6°17 | 21°11 | 2°48 | 0°43 | 29°50 | 21°14 | n.a. | W 9 |
| T 10 | 23 5 56 | 14°29'20 | 23°42 | 2°44 | 28°12 | 28° 8 | 9°51 | 5°34 | 6°17 | 21°11 | 2°48 | 0°41 | 29°47 | 21°20 | n.a. | T 10 |
| F 11 | 23 9 53 | 15°28'45 | 5♊46 | 4°28 | 29°12 | 28°51 | 9°57 | 5°31 | 6°18 | 21°12 | 2°48 | 0°40 | 29°44 | 21°27 | n.a. | F 11 |
| S 12 | 23 13 50 | 16°28'13 | 18° 3 | 6°13 | 0♌12 | 29°34 | 10° 3 | 5°28 | 6°18 | 21°12 | 2°48 | 0°D40 | 29°40 | 21°34 | n.a. | S 12 |
| S 13 | 23 17 46 | 17°27'44 | 0♋37 | 7°58 | 1°13 | 0♐17 | 10°10 | 5°25 | 6°18 | 21°13 | 2°47 | 0°41 | 29°37 | 21°40 | n.a. | S 13 |
| M14 | 23 21 43 | 18°27'17 | 13°33 | 9°43 | 2°15 | 0°59 | 10°17 | 5°23 | 6°R18 | 21°13 | 2°47 | 0°42 | 29°34 | 21°47 | n.a. | M14 |
| T 15 | 23 25 39 | 19°26'52 | 26°53 | 11°28 | 3°16 | 1°42 | 10°23 | 5°20 | 6°18 | 21°14 | 2°47 | 0°43 | 29°31 | 21°54 | n.a. | T 15 |
| W16 | 23 29 36 | 20°26'30 | 10♌41 | 13°13 | 4°18 | 2°25 | 10°30 | 5°18 | 6°18 | 21°14 | 2°47 | 0°44 | 29°28 | 22° 0 | n.a. | W16 |
| T 17 | 23 33 32 | 21°26'10 | 24°54 | 14°57 | 5°21 | 3° 9 | 10°37 | 5°15 | 6°18 | 21°14 | 2°46 | 0°R45 | 29°24 | 22° 7 | n.a. | T 17 |
| F 18 | 23 37 29 | 22°25'52 | 9♍32 | 16°41 | 6°24 | 3°52 | 10°45 | 5°13 | 6°17 | 21°15 | 2°46 | 0°45 | 29°21 | 22°14 | n.a. | F 18 |
| S 19 | 23 41 25 | 23°25'36 | 24°27 | 18°25 | 7°27 | 4°35 | 10°52 | 5°10 | 6°17 | 21°15 | 2°46 | 0°44 | 29°18 | 22°20 | n.a. | S 19 |
| S 20 | 23 45 22 | 24°25'22 | 9♎33 | 20° 8 | 8°30 | 5°19 | 11° 0 | 5° 8 | 6°17 | 21°15 | 2°46 | 0°41 | 29°15 | 22°27 | n.a. | S 20 |
| M21 | 23 49 18 | 25°25'11 | 24°39 | 21°51 | 9°34 | 6° 2 | 11° 7 | 5° 6 | 6°17 | 21°15 | 2°45 | 0°38 | 29°12 | 22°34 | n.a. | M21 |
| T 22 | 23 53 15 | 26°25'01 | 9♏37 | 23°33 | 10°38 | 6°46 | 11°15 | 5° 4 | 6°16 | 21°16 | 2°45 | 0°35 | 29° 9 | 22°41 | n.a. | T 22 |
| W23 | 23 57 12 | 27°24'53 | 24°18 | 25°15 | 11°43 | 7°29 | 11°23 | 5° 2 | 6°16 | 21°16 | 2°44 | 0°31 | 29° 5 | 22°47 | n.a. | W23 |
| T 24 | 0 1 8 | 28°24'47 | 8♐38 | 26°56 | 12°47 | 8°13 | 11°31 | 5° 0 | 6°15 | 21°16 | 2°44 | 0°29 | 29° 2 | 22°54 | n.a. | T 24 |
| F 25 | 0 5 5 | 29°24'43 | 22°33 | 28°36 | 13°52 | 8°57 | 11°39 | 4°59 | 6°15 | 21°16 | 2°44 | 0°27 | 28°59 | 23° 1 | n.a. | F 25 |
| S 26 | 0 9 1 | 0♎24'41 | 6♑ 4 | 0♎16 | 14°58 | 9°41 | 11°48 | 4°57 | 6°14 | 21°16 | 2°43 | 0°D27 | 28°56 | 23° 7 | n.a. | S 26 |
| S 27 | 0 12 58 | 1°24'40 | 19°12 | 1°56 | 16° 3 | 10°25 | 11°56 | 4°56 | 6°14 | 21°R16 | 2°43 | 0°28 | 28°53 | 23°14 | n.a. | S 27 |
| M28 | 0 16 54 | 2°24'41 | 2♒ 1 | 3°35 | 17° 9 | 11° 9 | 12° 5 | 4°54 | 6°13 | 21°16 | 2°42 | 0°30 | 28°50 | 23°21 | n.a. | M28 |
| T 29 | 0 20 51 | 3°24'43 | 14°33 | 5°13 | 18°15 | 11°53 | 12°14 | 4°53 | 6°12 | 21°16 | 2°42 | 0°32 | 28°46 | 23°27 | n.a. | T 29 |
| W30 | 0 24 47 | 4♎24'48 | 26♒52 | 6♎51 | 19♌21 | 12♐37 | 12♐23 | 4♒52 | 6♊11 | 21♊16 | 2♊41 | 0°R33 | 28♌43 | 23♈34 | n.a. | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 9n33 | 16s59 | 2n19 | 16n47 | 1n23 | 19n40 | 2s37 | 20s14 | 1s52 | 22s 4 | 0s 1 | 20s28 | 1s33 | 21n35 | 0s 0 | 22n26 | 0s58 | 14n42 | 6s22 | 11n18 | 11n30 | 4n22 | | n.a. |
| W 2 | 9 11 | 14 35 | 1 13 | 16 28 | 1 31 | 19 39 | 2 30 | 20 25 | 1 52 | 22 5 | 0 1 | 20 29 | 1 33 | 21 35 | 0 0 | 22 26 | 0 58 | 14 42 | 6 22 | 11 18 | 11 31 | 4 24 | | n.a. |
| T 3 | 8 49 | 11 32 | 0 5 | 16 6 | 1 37 | 19 37 | 2 24 | 20 35 | 1 52 | 22 6 | 0 1 | 20 30 | 1 33 | 21 35 | 0 0 | 22 26 | 0 58 | 14 42 | 6 22 | 11 18 | 11 32 | 4 26 | | n.a. |
| F 4 | 8 27 | 8 2 | 1s 3 | 15 41 | 1 43 | 19 34 | 2 17 | 20 46 | 1 52 | 22 7 | 0 2 | 20 30 | 1 33 | 21 35 | 0 0 | 22 26 | 0 58 | 14 42 | 6 22 | 11 18 | 11 34 | 4 28 | | n.a. |
| S 5 | 8 4 | 4 14 | 2 6 | 15 14 | 1 47 | 19 31 | 2 11 | 20 57 | 1 52 | 22 8 | 0 2 | 20 31 | 1 33 | 21 35 | 0 0 | 22 26 | 0 58 | 14 42 | 6 22 | 11 18 | 11 35 | 4 30 | | n.a. |
| S 6 | 7 42 | 0 19 | 3 4 | 14 44 | 1 50 | 19 27 | 2 4 | 21 7 | 1 52 | 22 8 | 0 2 | 20 32 | 1 33 | 21 35 | 0 0 | 22 26 | 0 58 | 14 42 | 6 22 | 11 19 | 11 36 | 4 32 | | n.a. |
| M 7 | 7 19 | 3n35 | 3 53 | 14 12 | 1 53 | 19 23 | 1 58 | 21 17 | 1 52 | 22 9 | 0 2 | 20 33 | 1 33 | 21 35 | 0 0 | 22 26 | 0 58 | 14 42 | 6 22 | 11 19 | 11 37 | 4 34 | | n.a. |
| T 8 | 6 56 | 7 20 | 4 32 | 13 37 | 1 54 | 19 19 | 1 52 | 21 27 | 1 52 | 22 10 | 0 2 | 20 34 | 1 33 | 21 35 | 0 0 | 22 26 | 0 58 | 14 42 | 6 22 | 11 20 | 11 38 | 4 36 | | n.a. |
| W 9 | 6 33 | 10 47 | 4 59 | 13 1 | 1 55 | 19 13 | 1 45 | 21 37 | 1 52 | 22 11 | 0 2 | 20 34 | 1 33 | 21 35 | 0 0 | 22 26 | 0 58 | 14 42 | 6 22 | 11 20 | 11 39 | 4 38 | | n.a. |
| T 10 | 6 10 | 13 50 | 5 14 | 12 24 | 1 55 | 19 8 | 1 39 | 21 47 | 1 52 | 22 12 | 0 2 | 20 35 | 1 33 | 21 35 | 0 0 | 22 26 | 0 58 | 14 42 | 6 23 | 11 21 | 11 40 | 4 40 | | n.a. |
| F 11 | 5 47 | 16 20 | 5 15 | 11 45 | 1 54 | 19 1 | 1 33 | 21 57 | 1 52 | 22 13 | 0 2 | 20 36 | 1 33 | 21 35 | 0 0 | 22 26 | 0 58 | 14 41 | 6 23 | 11 21 | 11 42 | 4 42 | | n.a. |
| S 12 | 5 24 | 18 9 | 5 2 | 11 5 | 1 53 | 18 55 | 1 27 | 22 6 | 1 52 | 22 15 | 0 2 | 20 37 | 1 33 | 21 35 | 0 0 | 22 26 | 0 58 | 14 41 | 6 23 | 11 21 | 11 43 | 4 44 | | n.a. |
| S 13 | 5 0 | 19 8 | 4 34 | 10 23 | 1 51 | 18 47 | 1 21 | 22 15 | 1 52 | 22 16 | 0 3 | 20 37 | 1 33 | 21 36 | 0 0 | 22 26 | 0 58 | 14 41 | 6 23 | 11 21 | 11 44 | 4 46 | | n.a. |
| M14 | 4 37 | 19 9 | 3 52 | 9 41 | 1 49 | 18 39 | 1 15 | 22 24 | 1 52 | 22 17 | 0 3 | 20 38 | 1 33 | 21 36 | 0 0 | 22 26 | 0 58 | 14 41 | 6 23 | 11 21 | 11 45 | 4 48 | | n.a. |
| T 15 | 4 13 | 18 8 | 2 56 | 8 58 | 1 46 | 18 31 | 1 9 | 22 33 | 1 52 | 22 18 | 0 3 | 20 38 | 1 33 | 21 36 | 0 0 | 22 26 | 0 58 | 14 41 | 6 23 | 11 20 | 11 46 | 4 50 | | n.a. |
| W16 | 3 50 | 16 1 | 1 49 | 8 14 | 1 42 | 18 22 | 1 3 | 22 42 | 1 52 | 22 19 | 0 3 | 20 39 | 1 33 | 21 36 | 0 0 | 22 26 | 0 58 | 14 41 | 6 23 | 11 20 | 11 47 | 4 52 | | n.a. |
| T 17 | 3 26 | 12 51 | 0 32 | 7 30 | 1 39 | 18 13 | 0 58 | 22 50 | 1 52 | 22 20 | 0 3 | 20 40 | 1 33 | 21 36 | 0 0 | 22 26 | 0 58 | 14 41 | 6 23 | 11 20 | 11 48 | 4 54 | | n.a. |
| F 18 | 3 2 | 8 50 | 0n48 | 6 46 | 1 34 | 18 3 | 0 52 | 22 59 | 1 52 | 22 21 | 0 3 | 20 40 | 1 33 | 21 36 | 0 0 | 22 26 | 0 58 | 14 40 | 6 23 | 11 20 | 11 49 | 4 56 | | n.a. |
| S 19 | 2 38 | 4 10 | 2 7 | 6 0 | 1 30 | 17 52 | 0 46 | 23 7 | 1 51 | 22 22 | 0 3 | 20 41 | 1 33 | 21 35 | 0 0 | 22 26 | 0 58 | 14 40 | 6 23 | 11 20 | 11 51 | 4 58 | | n.a. |
| S 20 | 2 14 | 0s48 | 3 18 | 5 15 | 1 25 | 17 41 | 0 41 | 23 15 | 1 51 | 22 24 | 0 3 | 20 41 | 1 33 | 21 35 | 0 0 | 22 26 | 0 58 | 14 40 | 6 23 | 11 21 | 11 52 | 5 0 | | n.a. |
| M21 | 1 50 | 5 43 | 4 14 | 4 30 | 1 20 | 17 29 | 0 35 | 23 22 | 1 51 | 22 25 | 0 3 | 20 42 | 1 33 | 21 35 | 0 0 | 22 26 | 0 59 | 14 40 | 6 24 | 11 22 | 11 53 | 5 2 | | n.a. |
| T 22 | 1 26 | 10 13 | 4 53 | 3 44 | 1 15 | 17 17 | 0 30 | 23 30 | 1 51 | 22 26 | 0 4 | 20 42 | 1 32 | 21 35 | 0 0 | 22 26 | 0 59 | 14 40 | 6 24 | 11 23 | 11 54 | 5 4 | | n.a. |
| W23 | 1 2 | 14 1 | 5 12 | 2 58 | 1 9 | 17 4 | 0 24 | 23 37 | 1 51 | 22 27 | 0 4 | 20 43 | 1 32 | 21 35 | 0 0 | 22 26 | 0 59 | 14 40 | 6 24 | 11 25 | 11 55 | 5 6 | | n.a. |
| T 24 | 0 38 | 16 52 | 5 11 | 2 12 | 1 4 | 16 51 | 0 19 | 23 44 | 1 51 | 22 28 | 0 4 | 20 43 | 1 32 | 21 35 | 0 0 | 22 26 | 0 59 | 14 40 | 6 24 | 11 25 | 11 56 | 5 8 | | n.a. |
| F 25 | 0 14 | 18 39 | 4 51 | 1 26 | 0 58 | 16 37 | 0 14 | 23 51 | 1 50 | 22 30 | 0 4 | 20 43 | 1 32 | 21 35 | 0 0 | 22 26 | 0 59 | 14 39 | 6 24 | 11 26 | 11 57 | 5 10 | | n.a. |
| S 26 | 0s10 | 19 18 | 4 15 | 0 41 | 0 52 | 16 23 | 0 9 | 23 58 | 1 50 | 22 31 | 0 4 | 20 44 | 1 32 | 21 35 | 0 0 | 22 26 | 0 59 | 14 39 | 6 24 | 11 26 | 11 58 | 5 12 | | n.a. |
| S 27 | 0 34 | 18 53 | 3 27 | 0s 5 | 0 45 | 16 8 | 0 4 | 24 4 | 1 50 | 22 32 | 0 4 | 20 44 | 1 32 | 21 35 | 0 0 | 22 26 | 0 59 | 14 39 | 6 24 | 11 26 | 11 59 | 5 14 | | n.a. |
| M28 | 0 58 | 17 30 | 2 30 | 0 50 | 0 39 | 15 53 | 0n 1 | 24 10 | 1 50 | 22 33 | 0 4 | 20 44 | 1 32 | 21 35 | 0 0 | 22 26 | 0 59 | 14 39 | 6 24 | 11 25 | 12 1 | 5 16 | | n.a. |
| T 29 | 1 22 | 15 16 | 1 26 | 1 36 | 0 33 | 15 37 | 0 6 | 24 16 | 1 50 | 22 35 | 0 4 | 20 44 | 1 32 | 21 35 | 0 0 | 22 26 | 0 59 | 14 39 | 6 24 | 11 24 | 12 2 | 5 18 | | n.a. |
| W30 | 1s46 | 12s23 | 0n20 | 2s21 | 0n26 | 15n21 | 0n11 | 24s22 | 1s49 | 22s36 | 0s 4 | 20s45 | 1s32 | 21n35 | 0s 0 | 22n26 | 0s59 | 14n39 | 6s24 | 11n24 | 12n 3 | 5n20 | | n.a. |

Julian Day Number = 1696464.5, Delta T = 03h07m48s
Ecliptic obliquity = 23°42'04, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°00'27, Lahiri = - 4°53'27 Julian Calendar 1 Sept. 69 BCE == Greg. Calendar 30 Aug. 069 BCE

The year -68 astronomical counting style corresponds to year 069 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 69 BCE
# geocentric

## OCTOBER 69 BCE (-68) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 28 44 | 5♎24'54 | 9♓ 1 | 8♎28 | 20♌28 | 13♐22 | 12♐32 | 4°R50 | 6°R10 | 21°R16 | 2°R41 | 0°R32 | 28♌40 | 23♈41 | n.a. | T 1 |
| F 2 | 0 32 41 | 6°25'02 | 21° 2 | 10° 5 | 21°35 | 14° 6 | 12°41 | 4♒49 | 6♊10 | 21♊16 | 2♊40 | 0♍30 | 28°37 | 23°48 | n.a. | F 2 |
| S 3 | 0 36 37 | 7°25'12 | 2♈58 | 11°41 | 22°42 | 14°51 | 12°50 | 4°48 | 6° 9 | 21°15 | 2°39 | 0°26 | 28°34 | 23°54 | n.a. | S 3 |
| S 4 | 0 40 34 | 8°25'23 | 14°51 | 13°17 | 23°49 | 15°35 | 12°59 | 4°48 | 6° 8 | 21°15 | 2°39 | 0°21 | 28°30 | 24° 1 | n.a. | S 4 |
| M 5 | 0 44 30 | 9°25'37 | 26°42 | 14°53 | 24°56 | 16°19 | 13° 9 | 4°47 | 6° 7 | 21°15 | 2°38 | 0°14 | 28°27 | 24° 8 | n.a. | M 5 |
| T 6 | 0 48 27 | 10°25'53 | 8♉33 | 16°28 | 26° 4 | 17° 4 | 13°19 | 4°46 | 6° 5 | 21°15 | 2°37 | 0° 6 | 28°24 | 24°14 | n.a. | T 6 |
| W 7 | 0 52 23 | 11°26'10 | 20°26 | 18° 2 | 27°12 | 17°49 | 13°28 | 4°46 | 6° 4 | 21°14 | 2°37 | 29♌58 | 28°21 | 24°21 | n.a. | W 7 |
| T 8 | 0 56 20 | 12°26'30 | 2♊24 | 19°37 | 28°20 | 18°33 | 13°38 | 4°45 | 6° 3 | 21°14 | 2°36 | 29°51 | 28°18 | 24°28 | n.a. | T 8 |
| F 9 | 1 0 16 | 13°26'52 | 14°28 | 21°10 | 29°29 | 19°18 | 13°48 | 4°45 | 6° 2 | 21°13 | 2°35 | 29°45 | 28°15 | 24°34 | n.a. | F 9 |
| S 10 | 1 4 13 | 14°27'15 | 26°44 | 22°44 | 0♍37 | 20° 3 | 13°58 | 4°45 | 6° 1 | 21°13 | 2°35 | 29°41 | 28°11 | 24°41 | n.a. | S 10 |
| S 11 | 1 8 9 | 15°27'41 | 9♋13 | 24°17 | 1°46 | 20°48 | 14° 8 | 4°D45 | 5°59 | 21°12 | 2°34 | 29°39 | 28° 8 | 24°48 | n.a. | S 11 |
| M12 | 1 12 6 | 16°28'09 | 22° 2 | 25°50 | 2°55 | 21°33 | 14°19 | 4°45 | 5°58 | 21°12 | 2°33 | 29°D39 | 28° 5 | 24°55 | n.a. | M12 |
| T 13 | 1 16 3 | 17°28'39 | 5♌13 | 27°22 | 4° 4 | 22°18 | 14°29 | 4°45 | 5°56 | 21°11 | 2°32 | 29°40 | 28° 2 | 25° 1 | n.a. | T 13 |
| W14 | 1 19 59 | 18°29'11 | 18°51 | 28°54 | 5°13 | 23° 3 | 14°40 | 4°45 | 5°55 | 21°11 | 2°32 | 29°42 | 27°59 | 25° 8 | n.a. | W14 |
| T 15 | 1 23 56 | 19°29'44 | 2♍56 | 0♏26 | 6°23 | 23°48 | 14°50 | 4°46 | 5°53 | 21°10 | 2°31 | 29°R42 | 27°56 | 25°15 | n.a. | T 15 |
| F 16 | 1 27 52 | 20°30'20 | 17°29 | 1°58 | 7°33 | 24°33 | 15° 1 | 4°46 | 5°52 | 21°10 | 2°30 | 29°41 | 27°52 | 25°21 | n.a. | F 16 |
| S 17 | 1 31 49 | 21°30'57 | 2♎26 | 3°29 | 8°42 | 25°18 | 15°12 | 4°47 | 5°50 | 21° 9 | 2°29 | 29°37 | 27°49 | 25°28 | n.a. | S 17 |
| S 18 | 1 35 45 | 22°31'36 | 17°39 | 5° 0 | 9°52 | 26° 3 | 15°23 | 4°47 | 5°49 | 21° 8 | 2°28 | 29°31 | 27°46 | 25°35 | n.a. | S 18 |
| M19 | 1 39 42 | 23°32'17 | 2♏59 | 6°31 | 11° 2 | 26°49 | 15°34 | 4°48 | 5°47 | 21° 8 | 2°27 | 29°23 | 27°43 | 25°41 | n.a. | M19 |
| T 20 | 1 43 38 | 24°32'59 | 18°14 | 8° 1 | 12°13 | 27°34 | 15°45 | 4°49 | 5°45 | 21° 7 | 2°26 | 29°14 | 27°40 | 25°48 | n.a. | T 20 |
| W21 | 1 47 35 | 25°33'43 | 3♐13 | 9°31 | 13°23 | 28°19 | 15°56 | 4°50 | 5°43 | 21° 6 | 2°25 | 29° 6 | 27°36 | 25°55 | n.a. | W21 |
| T 22 | 1 51 32 | 26°34'28 | 17°49 | 11° 1 | 14°34 | 29° 5 | 16° 8 | 4°51 | 5°42 | 21° 5 | 2°25 | 28°58 | 27°33 | 26° 2 | n.a. | T 22 |
| F 23 | 1 55 28 | 27°35'14 | 1♑56 | 12°30 | 15°44 | 29°50 | 16°19 | 4°52 | 5°40 | 21° 4 | 2°24 | 28°53 | 27°30 | 26° 8 | n.a. | F 23 |
| S 24 | 1 59 25 | 28°36'02 | 15°33 | 13°59 | 16°55 | 0♑36 | 16°31 | 4°53 | 5°38 | 21° 4 | 2°23 | 28°50 | 27°27 | 26°15 | n.a. | S 24 |
| S 25 | 2 3 21 | 29°36'50 | 28°43 | 15°27 | 18° 6 | 1°21 | 16°42 | 4°55 | 5°36 | 21° 3 | 2°22 | 28°D49 | 27°24 | 26°22 | n.a. | S 25 |
| M26 | 2 7 18 | 0♏37'40 | 11♒28 | 16°55 | 19°17 | 2° 7 | 16°54 | 4°56 | 5°34 | 21° 2 | 2°21 | 28°50 | 27°21 | 26°28 | n.a. | M26 |
| T 27 | 2 11 14 | 1°38'30 | 23°54 | 18°23 | 20°28 | 2°52 | 17° 6 | 4°58 | 5°32 | 21° 1 | 2°20 | 28°R50 | 27°17 | 26°35 | n.a. | T 27 |
| W28 | 2 15 11 | 2°39'22 | 6♓ 5 | 19°49 | 21°40 | 3°38 | 17°18 | 5° 0 | 5°30 | 21° 0 | 2°19 | 28°50 | 27°14 | 26°42 | n.a. | W28 |
| T 29 | 2 19 7 | 3°40'15 | 18° 5 | 21°16 | 22°51 | 4°23 | 17°30 | 5° 1 | 5°28 | 20°59 | 2°18 | 28°48 | 27°11 | 26°48 | n.a. | T 29 |
| F 30 | 2 23 4 | 4°41'08 | 29°59 | 22°41 | 24° 3 | 5° 9 | 17°42 | 5° 3 | 5°26 | 20°58 | 2°17 | 28°44 | 27° 8 | 26°55 | n.a. | F 30 |
| S 31 | 2 27 1 | 5♏42'03 | 11♈50 | 24♏ 5 | 25♍14 | 5♑55 | 17♐54 | 5♒ 5 | 5♊24 | 20♊57 | 2♊16 | 28♌36 | 27♌ 5 | 27♈ 2 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 2s10 | 8s59 | 0s46 | 3s 5 | 0n20 | 15n 4 | 0n15 | 24s27 | 1s49 | 22s37 | 0s 5 | 20s45 | 1s32 | 21n34 | 0s 0 | 22n26 | 0s59 | 14n38 | 6s24 | 11n24 | 12n 4 | 5n22 | | n.a. |
| F 2 | 2 35 | 5 16 | 1 49 | 3 50 | 0 13 | 14 47 | 0 20 | 24 32 | 1 49 | 22 39 | 0 5 | 20 45 | 1 32 | 21 34 | 0 0 | 22 26 | 0 59 | 14 38 | 6 24 | 11 25 | 12 5 | 5 24 | | n.a. |
| S 3 | 2 59 | 1 22 | 2 47 | 4 34 | 0 7 | 14 29 | 0 24 | 24 37 | 1 48 | 22 40 | 0 5 | 20 45 | 1 32 | 21 34 | 0 0 | 22 26 | 0 59 | 14 38 | 6 24 | 11 26 | 12 6 | 5 26 | | n.a. |
| S 4 | 3 23 | 2n34 | 3 38 | 5 18 | 0 0 | 14 11 | 0 29 | 24 42 | 1 48 | 22 41 | 0 5 | 20 45 | 1 32 | 21 34 | 0 0 | 22 26 | 0 59 | 14 38 | 6 25 | 11 28 | 12 7 | 5 28 | | n.a. |
| M 5 | 3 47 | 6 24 | 4 18 | 6 2 | 0s 7 | 13 52 | 0 33 | 24 47 | 1 48 | 22 43 | 0 5 | 20 45 | 1 32 | 21 34 | 0 0 | 22 26 | 0 59 | 14 38 | 6 25 | 11 31 | 12 8 | 5 30 | | n.a. |
| T 6 | 4 10 | 9 58 | 4 48 | 6 45 | 0 13 | 13 33 | 0 37 | 24 51 | 1 48 | 22 44 | 0 5 | 20 46 | 1 32 | 21 34 | 0 0 | 22 26 | 0 59 | 14 37 | 6 25 | 11 34 | 12 10 | 5 32 | | n.a. |
| W 7 | 4 34 | 13 9 | 5 5 | 7 27 | 0 20 | 13 13 | 0 41 | 24 55 | 1 47 | 22 45 | 0 5 | 20 46 | 1 31 | 21 33 | 0n 0 | 22 26 | 0 59 | 14 37 | 6 25 | 11 36 | 12 11 | 5 34 | | n.a. |
| T 8 | 4 58 | 15 49 | 5 9 | 8 10 | 0 26 | 12 53 | 0 45 | 24 59 | 1 47 | 22 46 | 0 5 | 20 46 | 1 31 | 21 33 | 0 0 | 22 26 | 0 59 | 14 37 | 6 25 | 11 39 | 12 12 | 5 36 | | n.a. |
| F 9 | 5 22 | 17 50 | 4 59 | 8 51 | 0 33 | 12 33 | 0 49 | 25 2 | 1 47 | 22 48 | 0 5 | 20 46 | 1 31 | 21 33 | 0 0 | 22 26 | 0 59 | 14 37 | 6 25 | 11 41 | 12 13 | 5 38 | | n.a. |
| S 10 | 5 46 | 19 4 | 4 35 | 9 33 | 0 39 | 12 12 | 0 53 | 25 5 | 1 46 | 22 49 | 0 6 | 20 46 | 1 31 | 21 33 | 0 0 | 22 26 | 0 59 | 14 37 | 6 25 | 11 42 | 12 14 | 5 40 | | n.a. |
| S 11 | 6 9 | 19 25 | 3 59 | 10 13 | 0 46 | 11 51 | 0 57 | 25 8 | 1 46 | 22 50 | 0 6 | 20 46 | 1 31 | 21 33 | 0 0 | 22 26 | 0 59 | 14 36 | 6 25 | 11 43 | 12 15 | 5 42 | | n.a. |
| M12 | 6 33 | 18 46 | 3 9 | 10 54 | 0 52 | 11 29 | 1 0 | 25 11 | 1 45 | 22 52 | 0 6 | 20 45 | 1 31 | 21 32 | 0 0 | 22 25 | 0 59 | 14 36 | 6 25 | 11 43 | 12 16 | 5 44 | | n.a. |
| T 13 | 6 56 | 17 6 | 2 8 | 11 33 | 0 58 | 11 7 | 1 4 | 25 13 | 1 45 | 22 53 | 0 6 | 20 45 | 1 31 | 21 32 | 0 0 | 22 25 | 0 59 | 14 36 | 6 25 | 11 43 | 12 17 | 5 46 | | n.a. |
| W14 | 7 19 | 14 25 | 0 58 | 12 13 | 1 5 | 10 44 | 1 7 | 25 15 | 1 45 | 22 54 | 0 6 | 20 45 | 1 31 | 21 32 | 0 0 | 22 25 | 0 59 | 14 36 | 6 25 | 11 42 | 12 18 | 5 48 | | n.a. |
| T 15 | 7 43 | 10 48 | 0n17 | 12 51 | 1 11 | 10 22 | 1 11 | 25 17 | 1 44 | 22 56 | 0 6 | 20 45 | 1 31 | 21 32 | 0 0 | 22 25 | 0 59 | 14 36 | 6 25 | 11 42 | 12 19 | 5 50 | | n.a. |
| F 16 | 8 6 | 6 26 | 1 34 | 13 29 | 1 17 | 9 58 | 1 14 | 25 19 | 1 44 | 22 57 | 0 6 | 20 45 | 1 31 | 21 31 | 0 0 | 22 25 | 0 59 | 14 35 | 6 25 | 11 43 | 12 21 | 5 52 | | n.a. |
| S 17 | 8 29 | 1 34 | 2 47 | 14 6 | 1 22 | 9 35 | 1 17 | 25 20 | 1 43 | 22 58 | 0 6 | 20 45 | 1 31 | 21 31 | 0 0 | 22 25 | 0 59 | 14 35 | 6 25 | 11 44 | 12 22 | 5 54 | | n.a. |
| S 18 | 8 52 | 3s29 | 3 48 | 14 43 | 1 28 | 9 11 | 1 20 | 25 21 | 1 43 | 23 0 | 0 6 | 20 44 | 1 31 | 21 31 | 0 0 | 22 25 | 0 59 | 14 35 | 6 25 | 11 46 | 12 23 | 5 56 | | n.a. |
| M19 | 9 14 | 8 21 | 4 34 | 15 18 | 1 34 | 8 47 | 1 23 | 25 22 | 1 43 | 23 1 | 0 6 | 20 44 | 1 30 | 21 30 | 0 0 | 22 25 | 0 59 | 14 35 | 6 25 | 11 49 | 12 24 | 5 58 | | n.a. |
| T 20 | 9 37 | 12 39 | 5 0 | 15 53 | 1 39 | 8 22 | 1 26 | 25 23 | 1 42 | 23 2 | 0 7 | 20 44 | 1 30 | 21 30 | 0 0 | 22 25 | 0 59 | 14 35 | 6 25 | 11 52 | 12 25 | 6 0 | | n.a. |
| W21 | 9 59 | 16 3 | 5 5 | 16 28 | 1 44 | 7 57 | 1 28 | 25 23 | 1 42 | 23 4 | 0 7 | 20 43 | 1 30 | 21 30 | 0 0 | 22 25 | 0 59 | 14 34 | 6 25 | 11 55 | 12 26 | 6 2 | | n.a. |
| T 22 | 10 22 | 18 20 | 4 49 | 17 1 | 1 49 | 7 32 | 1 31 | 25 23 | 1 41 | 23 5 | 0 7 | 20 43 | 1 30 | 21 30 | 0 0 | 22 25 | 0 59 | 14 34 | 6 26 | 11 57 | 12 27 | 6 4 | | n.a. |
| F 23 | 10 44 | 19 25 | 4 17 | 17 34 | 1 54 | 7 7 | 1 33 | 25 23 | 1 41 | 23 6 | 0 7 | 20 43 | 1 30 | 21 29 | 0 0 | 22 25 | 0 59 | 14 34 | 6 26 | 11 59 | 12 28 | 6 6 | | n.a. |
| S 24 | 11 6 | 19 18 | 3 30 | 18 5 | 1 58 | 6 41 | 1 36 | 25 22 | 1 40 | 23 7 | 0 7 | 20 42 | 1 30 | 21 29 | 0 0 | 22 25 | 0 59 | 14 34 | 6 26 | 12 0 | 12 29 | 6 8 | | n.a. |
| S 25 | 11 27 | 18 8 | 2 34 | 18 36 | 2 2 | 6 15 | 1 38 | 25 21 | 1 40 | 23 9 | 0 7 | 20 42 | 1 30 | 21 29 | 0 0 | 22 25 | 0 59 | 14 33 | 6 26 | 12 1 | 12 31 | 6 10 | | n.a. |
| M26 | 11 49 | 16 4 | 1 31 | 19 5 | 2 6 | 5 49 | 1 40 | 25 20 | 1 39 | 23 10 | 0 7 | 20 41 | 1 30 | 21 28 | 0 0 | 22 25 | 0 59 | 14 33 | 6 26 | 12 1 | 12 32 | 6 12 | | n.a. |
| T 27 | 12 10 | 13 17 | 0 26 | 19 34 | 2 10 | 5 23 | 1 42 | 25 19 | 1 39 | 23 11 | 0 7 | 20 41 | 1 30 | 21 28 | 0 0 | 22 24 | 0 59 | 14 33 | 6 26 | 12 0 | 12 33 | 6 14 | | n.a. |
| W28 | 12 32 | 9 59 | 0s39 | 20 1 | 2 13 | 4 56 | 1 44 | 25 17 | 1 38 | 23 12 | 0 7 | 20 40 | 1 30 | 21 28 | 0 0 | 22 24 | 0 59 | 14 33 | 6 26 | 12 0 | 12 34 | 6 16 | | n.a. |
| T 29 | 12 53 | 6 18 | 1 41 | 20 28 | 2 16 | 4 29 | 1 46 | 25 15 | 1 38 | 23 14 | 0 7 | 20 40 | 1 30 | 21 27 | 0 0 | 22 24 | 0 59 | 14 33 | 6 26 | 12 1 | 12 35 | 6 18 | | n.a. |
| F 30 | 13 13 | 2 25 | 2 38 | 20 53 | 2 19 | 4 2 | 1 48 | 25 13 | 1 37 | 23 15 | 0 8 | 20 39 | 1 29 | 21 27 | 0 0 | 22 24 | 0 59 | 14 32 | 6 26 | 12 3 | 12 36 | 6 20 | | n.a. |
| S 31 | 13s34 | 1n33 | 3s28 | 21s16 | 2s21 | 3n35 | 1n49 | 25s11 | 1s37 | 23s16 | 0s 8 | 20s39 | 1s29 | 21n26 | 0n 0 | 22n24 | 0s59 | 14n32 | 6s26 | 12n 5 | 12n37 | 6n22 | | n.a. |

Julian Day Number = 1696494.5, Delta T = 03h07m47s
Ecliptic obliquity = 23°42'05, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°00'23, Lahiri = - 4°53'22 Julian Calendar 1 Oct. 69 BCE == Greg. Calendar 29 Sept. 069 BCE

The year -68 astronomical counting style corresponds to year 069 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 69 BCE
# geocentric

## NOVEMBER 69 BCE (-68) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 30 57 | 6♏42'59 | 23♈40 | 25♏29 | 26♍26 | 6♑40 | 18♐ 6 | 5♒ 7 | 5°R22 | 20°R55 | 2°R14 | 28°R26 | 27♌ 1 | 27♈ 9 | n.a. | S 1 |
| M 2 | 2 34 54 | 7°43'56 | 5♉32 | 26°51 | 27°38 | 7°26 | 18°18 | 5°10 | 5♊19 | 20♊54 | 2♊13 | 28♌14 | 26°58 | 27°15 | n.a. | M 2 |
| T 3 | 2 38 50 | 8°44'54 | 17°27 | 28°12 | 28°50 | 8°12 | 18°30 | 5°12 | 5°17 | 20°53 | 2°12 | 28° 0 | 26°55 | 27°22 | n.a. | T 3 |
| W 4 | 2 42 47 | 9°45'53 | 29°26 | 29°32 | 0♎ 2 | 8°57 | 18°43 | 5°14 | 5°15 | 20°52 | 2°11 | 27°46 | 26°52 | 27°29 | n.a. | W 4 |
| T 5 | 2 46 43 | 10°46'54 | 11♊30 | 0♐49 | 1°14 | 9°43 | 18°55 | 5°17 | 5°13 | 20°51 | 2°10 | 27°33 | 26°49 | 27°35 | n.a. | T 5 |
| F 6 | 2 50 40 | 11°47'55 | 23°42 | 2° 5 | 2°27 | 10°29 | 19° 8 | 5°20 | 5°10 | 20°50 | 2° 9 | 27°22 | 26°46 | 27°42 | n.a. | F 6 |
| S 7 | 2 54 36 | 12°48'58 | 6♋ 2 | 3°18 | 3°39 | 11°15 | 19°20 | 5°22 | 5° 8 | 20°48 | 2° 8 | 27°14 | 26°42 | 27°49 | n.a. | S 7 |
| S 8 | 2 58 33 | 13°50'02 | 18°34 | 4°28 | 4°51 | 12° 0 | 19°33 | 5°25 | 5° 6 | 20°47 | 2° 7 | 27° 9 | 26°39 | 27°56 | n.a. | S 8 |
| M 9 | 3 2 30 | 14°51'07 | 1♌21 | 5°35 | 6° 4 | 12°46 | 19°46 | 5°28 | 5° 3 | 20°46 | 2° 6 | 27° 6 | 26°36 | 28° 2 | n.a. | M 9 |
| T 10 | 3 6 26 | 15°52'13 | 14°26 | 6°39 | 7°17 | 13°32 | 19°59 | 5°31 | 5° 1 | 20°45 | 2° 4 | 27°D 6 | 26°33 | 28° 9 | n.a. | T 10 |
| W11 | 3 10 23 | 16°53'21 | 27°53 | 7°38 | 8°29 | 14°18 | 20°11 | 5°34 | 4°59 | 20°43 | 2° 3 | 27°R 6 | 26°30 | 28°16 | n.a. | W11 |
| T 12 | 3 14 19 | 17°54'29 | 11♍45 | 8°33 | 9°42 | 15° 4 | 20°24 | 5°37 | 4°56 | 20°42 | 2° 2 | 27° 5 | 26°27 | 28°22 | n.a. | T 12 |
| F 13 | 3 18 16 | 18°55'39 | 26° 2 | 9°21 | 10°55 | 15°50 | 20°37 | 5°41 | 4°54 | 20°40 | 2° 1 | 27° 3 | 26°23 | 28°29 | n.a. | F 13 |
| S 14 | 3 22 12 | 19°56'49 | 10♎44 | 10° 4 | 12° 8 | 16°36 | 20°50 | 5°44 | 4°51 | 20°39 | 2° 0 | 26°58 | 26°20 | 28°36 | n.a. | S 14 |
| S 15 | 3 26 9 | 20°58'00 | 25°46 | 10°39 | 13°21 | 17°22 | 21° 3 | 5°47 | 4°49 | 20°38 | 1°59 | 26°50 | 26°17 | 28°42 | n.a. | S 15 |
| M16 | 3 30 5 | 21°59'13 | 10♏59 | 11° 6 | 14°34 | 18° 7 | 21°17 | 5°51 | 4°46 | 20°36 | 1°57 | 26°39 | 26°14 | 28°49 | n.a. | M16 |
| T 17 | 3 34 2 | 23° 0'25 | 26°13 | 11°25 | 15°47 | 18°53 | 21°30 | 5°55 | 4°44 | 20°35 | 1°56 | 26°27 | 26°11 | 28°56 | n.a. | T 17 |
| W18 | 3 37 59 | 24° 1'39 | 11♐17 | 11°R34 | 17° 0 | 19°39 | 21°43 | 5°58 | 4°41 | 20°33 | 1°55 | 26°15 | 26° 7 | 29° 3 | n.a. | W18 |
| T 19 | 3 41 55 | 25° 2'53 | 26° 1 | 11°32 | 18°14 | 20°25 | 21°56 | 6° 2 | 4°39 | 20°32 | 1°54 | 26° 5 | 26° 4 | 29° 9 | n.a. | T 19 |
| F 20 | 3 45 52 | 26° 4'07 | 10♑18 | 11°18 | 19°27 | 21°11 | 22°10 | 6° 6 | 4°36 | 20°30 | 1°53 | 25°57 | 26° 1 | 29°16 | n.a. | F 20 |
| S 21 | 3 49 48 | 27° 5'22 | 24° 5 | 10°54 | 20°40 | 21°57 | 22°23 | 6°10 | 4°34 | 20°29 | 1°52 | 25°51 | 25°58 | 29°23 | n.a. | S 21 |
| S 22 | 3 53 45 | 28° 6'36 | 7♒22 | 10°17 | 21°54 | 22°43 | 22°37 | 6°14 | 4°31 | 20°27 | 1°50 | 25°49 | 25°55 | 29°29 | n.a. | S 22 |
| M23 | 3 57 41 | 29° 7'51 | 20°12 | 9°29 | 23° 7 | 23°29 | 22°50 | 6°19 | 4°29 | 20°26 | 1°49 | 25°48 | 25°52 | 29°36 | n.a. | M23 |
| T 24 | 4 1 38 | 0♐ 9'06 | 2♓40 | 8°31 | 24°21 | 24°15 | 23° 4 | 6°23 | 4°26 | 20°24 | 1°48 | 25°48 | 25°48 | 29°43 | n.a. | T 24 |
| W25 | 4 5 35 | 1°10'20 | 14°50 | 7°23 | 25°34 | 25° 1 | 23°17 | 6°27 | 4°23 | 20°23 | 1°47 | 25°47 | 25°45 | 29°50 | n.a. | W25 |
| T 26 | 4 9 31 | 2°11'35 | 26°49 | 6° 8 | 26°48 | 25°47 | 23°31 | 6°32 | 4°21 | 20°21 | 1°46 | 25°45 | 25°42 | 29°56 | n.a. | T 26 |
| F 27 | 4 13 28 | 3°12'50 | 8♈40 | 4°49 | 28° 2 | 26°33 | 23°44 | 6°36 | 4°18 | 20°19 | 1°44 | 25°41 | 25°39 | 0♉ 3 | n.a. | F 27 |
| S 28 | 4 17 24 | 4°14'04 | 20°30 | 3°27 | 29°15 | 27°19 | 23°58 | 6°41 | 4°16 | 20°18 | 1°43 | 25°33 | 25°36 | 0°10 | n.a. | S 28 |
| S 29 | 4 21 21 | 5°15'19 | 2♉20 | 2° 5 | 0♏29 | 28° 5 | 24°12 | 6°45 | 4°13 | 20°16 | 1°42 | 25°22 | 25°33 | 0°16 | n.a. | S 29 |
| M30 | 4 25 17 | 6♐16'33 | 14♉15 | 0♐47 | 1♏43 | 28♑50 | 24♐26 | 6♒50 | 4♊11 | 20♊14 | 1♊41 | 25♌10 | 25♌29 | 0♉23 | n.a. | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 13s54 | 5n27 | 4s 8 | 21s39 | 2s23 | 3n 7 | 1n51 | 25s 8 | 1s36 | 23s17 | 0s 8 | 20s38 | 1s29 | 21n26 | 0n 0 | 22n24 | 0s59 | 14n32 | 6s26 | 12n 9 | 12n38 | 6n24 | | n.a. |
| M 2 | 14 14 | 9 8 | 4 38 | 22 0 | 2 24 | 2 40 | 1 52 | 25 5 | 1 36 | 23 19 | 0 8 | 20 38 | 1 29 | 21 26 | 0 0 | 22 24 | 0 59 | 14 32 | 6 26 | 12 13 | 12 39 | 6 26 | | n.a. |
| T 3 | 14 34 | 12 29 | 4 56 | 22 20 | 2 25 | 2 12 | 1 54 | 25 2 | 1 35 | 23 20 | 0 8 | 20 37 | 1 29 | 21 25 | 0 0 | 22 24 | 0 59 | 14 32 | 6 26 | 12 18 | 12 40 | 6 28 | | n.a. |
| W 4 | 14 54 | 15 21 | 5 1 | 22 38 | 2 25 | 1 44 | 1 55 | 24 58 | 1 34 | 23 21 | 0 8 | 20 36 | 1 29 | 21 25 | 0 0 | 22 24 | 0 59 | 14 31 | 6 26 | 12 23 | 12 42 | 6 30 | | n.a. |
| T 5 | 15 13 | 17 35 | 4 52 | 22 54 | 2 24 | 1 16 | 1 56 | 24 54 | 1 34 | 23 22 | 0 8 | 20 36 | 1 29 | 21 24 | 0 0 | 22 24 | 0 59 | 14 31 | 6 26 | 12 27 | 12 43 | 6 32 | | n.a. |
| F 6 | 15 32 | 19 3 | 4 30 | 23 9 | 2 23 | 0 48 | 1 57 | 24 50 | 1 33 | 23 23 | 0 8 | 20 35 | 1 29 | 21 24 | 0 0 | 22 24 | 0 59 | 14 31 | 6 26 | 12 31 | 12 44 | 6 34 | | n.a. |
| S 7 | 15 51 | 19 38 | 3 55 | 23 22 | 2 22 | 0 20 | 1 58 | 24 46 | 1 33 | 23 24 | 0 8 | 20 34 | 1 29 | 21 24 | 0 0 | 22 23 | 0 59 | 14 31 | 6 26 | 12 34 | 12 45 | 6 36 | | n.a. |
| S 8 | 16 10 | 19 17 | 3 9 | 23 33 | 2 19 | 0s 8 | 1 59 | 24 41 | 1 32 | 23 25 | 0 8 | 20 33 | 1 29 | 21 23 | 0 0 | 22 23 | 0 59 | 14 30 | 6 26 | 12 36 | 12 46 | 6 38 | | n.a. |
| M 9 | 16 28 | 17 56 | 2 12 | 23 42 | 2 16 | 0 37 | 1 59 | 24 36 | 1 32 | 23 27 | 0 8 | 20 32 | 1 29 | 21 23 | 0 0 | 22 23 | 0 59 | 14 30 | 6 26 | 12 37 | 12 47 | 6 40 | | n.a. |
| T 10 | 16 46 | 15 37 | 1 7 | 23 49 | 2 11 | 1 5 | 2 0 | 24 31 | 1 31 | 23 28 | 0 9 | 20 32 | 1 29 | 21 22 | 0 0 | 22 23 | 0 59 | 14 30 | 6 26 | 12 37 | 12 48 | 6 42 | | n.a. |
| W11 | 17 4 | 12 24 | 0n 4 | 23 54 | 2 6 | 1 34 | 2 0 | 24 25 | 1 30 | 23 29 | 0 9 | 20 31 | 1 28 | 21 22 | 0 0 | 22 23 | 0 59 | 14 30 | 6 26 | 12 37 | 12 49 | 6 44 | | n.a. |
| T 12 | 17 21 | 8 25 | 1 17 | 23 56 | 2 0 | 2 2 | 2 1 | 24 20 | 1 30 | 23 30 | 0 9 | 20 30 | 1 28 | 21 22 | 0 0 | 22 23 | 0 59 | 14 30 | 6 26 | 12 37 | 12 50 | 6 46 | | n.a. |
| F 13 | 17 38 | 3 50 | 2 27 | 23 57 | 1 52 | 2 31 | 2 1 | 24 14 | 1 29 | 23 31 | 0 9 | 20 29 | 1 28 | 21 21 | 0 0 | 22 23 | 0 59 | 14 29 | 6 26 | 12 38 | 12 51 | 6 48 | | n.a. |
| S 14 | 17 55 | 1s 6 | 3 29 | 23 55 | 1 44 | 2 59 | 2 1 | 24 7 | 1 29 | 23 32 | 0 9 | 20 28 | 1 28 | 21 21 | 0 0 | 22 23 | 0 59 | 14 29 | 6 26 | 12 40 | 12 52 | 6 50 | | n.a. |
| S 15 | 18 12 | 6 4 | 4 18 | 23 50 | 1 34 | 3 28 | 2 1 | 24 1 | 1 28 | 23 33 | 0 9 | 20 27 | 1 28 | 21 20 | 0 0 | 22 23 | 0 59 | 14 29 | 6 26 | 12 42 | 12 54 | 6 52 | | n.a. |
| M16 | 18 28 | 10 42 | 4 49 | 23 43 | 1 22 | 3 56 | 2 1 | 23 54 | 1 27 | 23 34 | 0 9 | 20 26 | 1 28 | 21 20 | 0 0 | 22 23 | 0 59 | 14 29 | 6 26 | 12 46 | 12 55 | 6 54 | | n.a. |
| T 17 | 18 44 | 14 39 | 5 0 | 23 33 | 1 10 | 4 25 | 2 1 | 23 47 | 1 27 | 23 35 | 0 9 | 20 25 | 1 28 | 21 19 | 0 0 | 22 22 | 0 59 | 14 29 | 6 26 | 12 50 | 12 56 | 6 56 | | n.a. |
| W18 | 18 59 | 17 35 | 4 50 | 23 20 | 0 56 | 4 53 | 2 1 | 23 40 | 1 26 | 23 36 | 0 9 | 20 24 | 1 28 | 21 19 | 0 0 | 22 22 | 0 59 | 14 28 | 6 26 | 12 54 | 12 57 | 6 58 | | n.a. |
| T 19 | 19 14 | 19 18 | 4 21 | 23 4 | 0 40 | 5 22 | 2 1 | 23 32 | 1 25 | 23 37 | 0 9 | 20 23 | 1 28 | 21 18 | 0 0 | 22 22 | 0 59 | 14 28 | 6 26 | 12 58 | 12 58 | 7 0 | | n.a. |
| F 20 | 19 29 | 19 43 | 3 36 | 22 46 | 0 23 | 5 50 | 2 1 | 23 24 | 1 25 | 23 38 | 0 10 | 20 22 | 1 28 | 21 18 | 0 0 | 22 22 | 0 59 | 14 28 | 6 26 | 13 1 | 12 59 | 7 2 | | n.a. |
| S 21 | 19 43 | 18 55 | 2 39 | 22 25 | 0 5 | 6 18 | 2 0 | 23 16 | 1 24 | 23 38 | 0 10 | 20 21 | 1 28 | 21 18 | 0 0 | 22 22 | 0 59 | 14 28 | 6 26 | 13 2 | 13 0 | 7 4 | | n.a. |
| S 22 | 19 57 | 17 5 | 1 36 | 22 0 | 0n14 | 6 46 | 2 0 | 23 8 | 1 23 | 23 39 | 0 10 | 20 20 | 1 28 | 21 17 | 0 0 | 22 22 | 0 59 | 14 28 | 6 26 | 13 3 | 13 1 | 7 6 | | n.a. |
| M23 | 20 11 | 14 26 | 0 30 | 21 34 | 0 34 | 7 14 | 1 59 | 23 0 | 1 23 | 23 40 | 0 10 | 20 19 | 1 28 | 21 17 | 0 0 | 22 22 | 0 59 | 14 27 | 6 25 | 13 4 | 13 2 | 7 8 | | n.a. |
| T 24 | 20 24 | 11 12 | 0s36 | 21 5 | 0 54 | 7 42 | 1 58 | 22 51 | 1 22 | 23 41 | 0 10 | 20 18 | 1 28 | 21 16 | 0 0 | 22 22 | 0 59 | 14 27 | 6 25 | 13 4 | 13 3 | 7 10 | | n.a. |
| W25 | 20 37 | 7 33 | 1 39 | 20 34 | 1 14 | 8 10 | 1 58 | 22 42 | 1 21 | 23 42 | 0 10 | 20 16 | 1 27 | 21 16 | 0 1 | 22 22 | 0 59 | 14 27 | 6 25 | 13 4 | 13 4 | 7 12 | | n.a. |
| T 26 | 20 50 | 3 40 | 2 36 | 20 2 | 1 34 | 8 38 | 1 57 | 22 33 | 1 21 | 23 43 | 0 10 | 20 15 | 1 27 | 21 15 | 0 1 | 22 21 | 0 59 | 14 27 | 6 25 | 13 4 | 13 6 | 7 14 | | n.a. |
| F 27 | 21 2 | 0n20 | 3 26 | 19 29 | 1 52 | 9 5 | 1 56 | 22 23 | 1 20 | 23 43 | 0 10 | 20 14 | 1 27 | 21 15 | 0 1 | 22 21 | 0 59 | 14 27 | 6 25 | 13 6 | 13 7 | 7 16 | | n.a. |
| S 28 | 21 13 | 4 17 | 4 7 | 18 57 | 2 10 | 9 33 | 1 55 | 22 13 | 1 19 | 23 44 | 0 10 | 20 13 | 1 27 | 21 14 | 0 1 | 22 21 | 0 59 | 14 26 | 6 25 | 13 9 | 13 8 | 7 18 | | n.a. |
| S 29 | 21 25 | 8 5 | 4 37 | 18 26 | 2 25 | 10 0 | 1 54 | 22 3 | 1 19 | 23 45 | 0 10 | 20 12 | 1 27 | 21 14 | 0 1 | 22 21 | 0 59 | 14 26 | 6 25 | 13 12 | 13 9 | 7 20 | | n.a. |
| M30 | 21s36 | 11n36 | 4s55 | 17s58 | 2n38 | 10s27 | 1n52 | 21s53 | 1s18 | 23s45 | 0s11 | 20s10 | 1s27 | 21n13 | 0n 1 | 22n21 | 0s59 | 14n26 | 6s25 | 13n17 | 13n10 | 7n22 | | n.a. |

Julian Day Number = 1696525.5, Delta T = 03h07m46s
Ecliptic obliquity = 23°42'04, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°00'19, Lahiri = - 4°53'18 Julian Calendar 1 Nov. 69 BCE == Greg. Calendar 30 Oct. 069 BCE


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# ASTRODIENST EPHEMERIS for the year 69 BCE
# geocentric

## DECEMBER 69 BCE (-68) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 4 29 14 | 7♐17'48 | 26♉16 | 29°R34 | 2♏57 | 29♑36 | 24♐39 | 6♒55 | 4°R 8 | 20°R13 | 1°R40 | 24°R55 | 25♌26 | 0♉30 | n.a. | T 1 |
| W 2 | 4 33 10 | 8°19'02 | 8♊24 | 28♏29 | 4°10 | 0♒22 | 24°53 | 7° 0 | 4♊ 5 | 20♊11 | 1♊38 | 24♌41 | 25°23 | 0°37 | n.a. | W 2 |
| T 3 | 4 37 7 | 9°20'17 | 20°40 | 27°32 | 5°24 | 1° 8 | 25° 7 | 7° 5 | 4° 3 | 20° 9 | 1°37 | 24°27 | 25°20 | 0°43 | n.a. | T 3 |
| F 4 | 4 41 4 | 10°21'31 | 3♋ 5 | 26°45 | 6°38 | 1°54 | 25°21 | 7°10 | 4° 0 | 20° 8 | 1°36 | 24°16 | 25°17 | 0°50 | n.a. | F 4 |
| S 5 | 4 45 0 | 11°22'46 | 15°39 | 26° 8 | 7°52 | 2°40 | 25°35 | 7°15 | 3°58 | 20° 6 | 1°35 | 24° 7 | 25°13 | 0°57 | n.a. | S 5 |
| S 6 | 4 48 57 | 12°24'00 | 28°24 | 25°42 | 9° 6 | 3°26 | 25°49 | 7°20 | 3°55 | 20° 4 | 1°34 | 24° 2 | 25°10 | 1° 3 | n.a. | S 6 |
| M 7 | 4 52 53 | 13°25'15 | 11♌20 | 25°26 | 10°20 | 4°11 | 26° 3 | 7°26 | 3°53 | 20° 3 | 1°32 | 23°59 | 25° 7 | 1°10 | n.a. | M 7 |
| T 8 | 4 56 50 | 14°26'29 | 24°30 | 25°D19 | 11°34 | 4°57 | 26°17 | 7°31 | 3°50 | 20° 1 | 1°31 | 23°D58 | 25° 4 | 1°17 | n.a. | T 8 |
| W 9 | 5 0 46 | 15°27'44 | 7♍56 | 25°22 | 12°48 | 5°43 | 26°31 | 7°36 | 3°48 | 19°59 | 1°30 | 23°59 | 25° 1 | 1°24 | n.a. | W 9 |
| T 10 | 5 4 43 | 16°28'58 | 21°40 | 25°33 | 14° 3 | 6°29 | 26°45 | 7°42 | 3°45 | 19°58 | 1°29 | 23°R59 | 24°58 | 1°30 | n.a. | T 10 |
| F 11 | 5 8 39 | 17°30'13 | 5♎43 | 25°51 | 15°17 | 7°15 | 26°59 | 7°47 | 3°43 | 19°56 | 1°28 | 23°57 | 24°54 | 1°37 | n.a. | F 11 |
| S 12 | 5 12 36 | 18°31'27 | 20° 5 | 26°17 | 16°31 | 8° 0 | 27°13 | 7°53 | 3°40 | 19°54 | 1°27 | 23°54 | 24°51 | 1°44 | n.a. | S 12 |
| S 13 | 5 16 33 | 19°32'41 | 4♏44 | 26°48 | 17°45 | 8°46 | 27°27 | 7°59 | 3°38 | 19°53 | 1°25 | 23°47 | 24°48 | 1°50 | n.a. | S 13 |
| M14 | 5 20 29 | 20°33'55 | 19°35 | 27°26 | 18°59 | 9°32 | 27°41 | 8° 4 | 3°35 | 19°51 | 1°24 | 23°39 | 24°45 | 1°57 | n.a. | M14 |
| T 15 | 5 24 26 | 21°35'09 | 4♐29 | 28° 9 | 20°14 | 10°17 | 27°55 | 8°10 | 3°33 | 19°49 | 1°23 | 23°29 | 24°42 | 2° 4 | n.a. | T 15 |
| W16 | 5 28 22 | 22°36'22 | 19°18 | 28°56 | 21°28 | 11° 3 | 28° 9 | 8°16 | 3°30 | 19°47 | 1°22 | 23°19 | 24°39 | 2°11 | n.a. | W16 |
| T 17 | 5 32 19 | 23°37'35 | 3♑53 | 29°48 | 22°42 | 11°49 | 28°23 | 8°22 | 3°28 | 19°46 | 1°21 | 23° 9 | 24°35 | 2°17 | n.a. | T 17 |
| F 18 | 5 36 15 | 24°38'47 | 18° 7 | 0♐43 | 23°56 | 12°34 | 28°38 | 8°28 | 3°26 | 19°44 | 1°20 | 23° 2 | 24°32 | 2°24 | n.a. | F 18 |
| S 19 | 5 40 12 | 25°39'58 | 1♒55 | 1°42 | 25°11 | 13°20 | 28°52 | 8°34 | 3°23 | 19°42 | 1°19 | 22°58 | 24°29 | 2°31 | n.a. | S 19 |
| S 20 | 5 44 8 | 26°41'09 | 15°17 | 2°43 | 26°25 | 14° 6 | 29° 6 | 8°40 | 3°21 | 19°41 | 1°18 | 22°56 | 24°26 | 2°37 | n.a. | S 20 |
| M21 | 5 48 5 | 27°42'18 | 28°12 | 3°48 | 27°39 | 14°51 | 29°20 | 8°46 | 3°19 | 19°39 | 1°17 | 22°D55 | 24°23 | 2°44 | n.a. | M21 |
| T 22 | 5 52 2 | 28°43'26 | 10♓45 | 4°54 | 28°54 | 15°37 | 29°34 | 8°52 | 3°16 | 19°37 | 1°16 | 22°56 | 24°19 | 2°51 | n.a. | T 22 |
| W23 | 5 55 58 | 29°44'34 | 23° 0 | 6° 3 | 0♐ 8 | 16°22 | 29°48 | 8°59 | 3°14 | 19°36 | 1°15 | 22°57 | 24°16 | 2°58 | n.a. | W23 |
| T 24 | 5 59 55 | 0♑45'40 | 5♈ 1 | 7°15 | 1°22 | 17° 8 | 0♑ 2 | 9° 5 | 3°12 | 19°34 | 1°14 | 22°R58 | 24°13 | 3° 4 | n.a. | T 24 |
| F 25 | 6 3 51 | 1°46'45 | 16°55 | 8°27 | 2°37 | 17°53 | 0°17 | 9°11 | 3°10 | 19°32 | 1°12 | 22°56 | 24°10 | 3°11 | n.a. | F 25 |
| S 26 | 6 7 48 | 2°47'48 | 28°45 | 9°42 | 3°51 | 18°39 | 0°31 | 9°18 | 3° 8 | 19°31 | 1°11 | 22°52 | 24° 7 | 3°18 | n.a. | S 26 |
| S 27 | 6 11 44 | 3°48'51 | 10♉37 | 10°58 | 5° 5 | 19°24 | 0°45 | 9°24 | 3° 5 | 19°29 | 1°10 | 22°47 | 24° 4 | 3°24 | n.a. | S 27 |
| M28 | 6 15 41 | 4°49'52 | 22°35 | 12°16 | 6°20 | 20° 9 | 0°59 | 9°31 | 3° 3 | 19°27 | 1°10 | 22°39 | 24° 0 | 3°31 | n.a. | M28 |
| T 29 | 6 19 37 | 5°50'52 | 4♊41 | 13°35 | 7°34 | 20°55 | 1°13 | 9°37 | 3° 1 | 19°26 | 1° 9 | 22°30 | 23°57 | 3°38 | n.a. | T 29 |
| W30 | 6 23 34 | 6°51'51 | 16°58 | 14°55 | 8°49 | 21°40 | 1°27 | 9°44 | 2°59 | 19°24 | 1° 8 | 22°21 | 23°54 | 3°45 | n.a. | W30 |
| T 31 | 6 27 31 | 7♑52'49 | 29♊27 | 16♐16 | 10♐ 3 | 22♒25 | 1♑41 | 9♒51 | 2♊57 | 19♊23 | 1♊ 7 | 22♌12 | 23♌51 | 3♉51 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| T 1 | 21 s46 | 14n40 | 5 s 0 | 17 s32 | 2n49 | 10 s53 | 1n51 | 21 s43 | 1 s17 | 23 s46 | 0 s11 | 20 s 9 | 1 s27 | 21n13 | 0n 1 | 22n21 | 0 s59 | 14n26 | 6 s25 | 13n21 | 13n11 | 7n24 | | | n.a. |
| W 2 | 21 56 | 17 9 | 4 52 | 17 9 | 2 58 | 11 20 | 1 50 | 21 32 | 1 17 | 23 47 | 0 11 | 20 8 | 1 27 | 21 12 | 0 1 | 22 21 | 0 59 | 14 26 | 6 25 | 13 26 | 13 12 | 7 26 | | | n.a. |
| T 3 | 22 6 | 18 53 | 4 30 | 16 50 | 3 4 | 11 46 | 1 48 | 21 21 | 1 16 | 23 47 | 0 11 | 20 6 | 1 27 | 21 12 | 0 1 | 22 21 | 0 59 | 14 26 | 6 25 | 13 31 | 13 13 | 7 28 | | | n.a. |
| F 4 | 22 15 | 19 45 | 3 55 | 16 36 | 3 8 | 12 12 | 1 47 | 21 10 | 1 15 | 23 48 | 0 11 | 20 5 | 1 27 | 21 11 | 0 1 | 22 20 | 0 59 | 14 25 | 6 25 | 13 35 | 13 14 | 7 30 | | | n.a. |
| S 5 | 22 23 | 19 39 | 3 8 | 16 26 | 3 10 | 12 37 | 1 45 | 20 59 | 1 14 | 23 49 | 0 11 | 20 4 | 1 27 | 21 11 | 0 1 | 22 20 | 0 59 | 14 25 | 6 25 | 13 38 | 13 15 | 7 32 | | | n.a. |
| S 6 | 22 32 | 18 34 | 2 11 | 16 19 | 3 10 | 13 3 | 1 44 | 20 48 | 1 14 | 23 49 | 0 11 | 20 2 | 1 27 | 21 10 | 0 1 | 22 20 | 0 59 | 14 25 | 6 25 | 13 39 | 13 16 | 7 34 | | | n.a. |
| M 7 | 22 40 | 16 30 | 1 7 | 16 17 | 3 8 | 13 28 | 1 42 | 20 36 | 1 13 | 23 50 | 0 11 | 20 1 | 1 27 | 21 10 | 0 1 | 22 20 | 0 59 | 14 25 | 6 25 | 13 40 | 13 17 | 7 36 | | | n.a. |
| T 8 | 22 47 | 13 33 | 0n 3 | 16 19 | 3 5 | 13 53 | 1 40 | 20 24 | 1 12 | 23 50 | 0 11 | 19 59 | 1 27 | 21 9 | 0 1 | 22 20 | 0 59 | 14 25 | 6 25 | 13 41 | 13 18 | 7 38 | | | n.a. |
| W 9 | 22 54 | 9 49 | 1 13 | 16 23 | 3 1 | 14 17 | 1 39 | 20 12 | 1 12 | 23 51 | 0 11 | 19 58 | 1 27 | 21 9 | 0 1 | 22 20 | 0 59 | 14 25 | 6 24 | 13 40 | 13 20 | 7 40 | | | n.a. |
| T 10 | 23 0 | 5 30 | 2 22 | 16 31 | 2 55 | 14 41 | 1 37 | 20 0 | 1 11 | 23 51 | 0 11 | 19 56 | 1 27 | 21 9 | 0 1 | 22 20 | 0 59 | 14 24 | 6 24 | 13 40 | 13 21 | 7 42 | | | n.a. |
| F 11 | 23 6 | 0 48 | 3 23 | 16 41 | 2 49 | 15 5 | 1 35 | 19 48 | 1 10 | 23 52 | 0 12 | 19 55 | 1 27 | 21 8 | 0 1 | 22 20 | 0 59 | 14 24 | 6 24 | 13 41 | 13 22 | 7 44 | | | n.a. |
| S 12 | 23 12 | 4 s 2 | 4 13 | 16 54 | 2 42 | 15 28 | 1 33 | 19 35 | 1 9 | 23 52 | 0 12 | 19 53 | 1 27 | 21 8 | 0 1 | 22 20 | 0 59 | 14 24 | 6 24 | 13 42 | 13 23 | 7 46 | | | n.a. |
| S 13 | 23 17 | 8 44 | 4 47 | 17 9 | 2 35 | 15 51 | 1 31 | 19 22 | 1 9 | 23 52 | 0 12 | 19 52 | 1 26 | 21 7 | 0 1 | 22 19 | 0 59 | 14 24 | 6 24 | 13 44 | 13 24 | 7 48 | | | n.a. |
| M14 | 23 22 | 12 58 | 5 3 | 17 25 | 2 27 | 16 14 | 1 29 | 19 9 | 1 8 | 23 53 | 0 12 | 19 50 | 1 26 | 21 7 | 0 1 | 22 19 | 0 59 | 14 24 | 6 24 | 13 47 | 13 25 | 7 50 | | | n.a. |
| T 15 | 23 26 | 16 23 | 4 58 | 17 42 | 2 19 | 16 36 | 1 27 | 18 56 | 1 7 | 23 53 | 0 12 | 19 49 | 1 26 | 21 6 | 0 1 | 22 19 | 0 59 | 14 24 | 6 24 | 13 50 | 13 26 | 7 52 | | | n.a. |
| W16 | 23 30 | 18 44 | 4 33 | 18 1 | 2 11 | 16 58 | 1 25 | 18 43 | 1 6 | 23 53 | 0 12 | 19 47 | 1 26 | 21 6 | 0 1 | 22 19 | 0 59 | 14 24 | 6 24 | 13 54 | 13 27 | 7 54 | | | n.a. |
| T 17 | 23 33 | 19 48 | 3 51 | 18 21 | 2 2 | 17 19 | 1 22 | 18 29 | 1 6 | 23 54 | 0 12 | 19 46 | 1 26 | 21 5 | 0 1 | 22 19 | 0 59 | 14 24 | 6 24 | 13 57 | 13 28 | 7 56 | | | n.a. |
| F 18 | 23 35 | 19 34 | 2 55 | 18 41 | 1 53 | 17 40 | 1 20 | 18 15 | 1 5 | 23 54 | 0 12 | 19 44 | 1 26 | 21 5 | 0 1 | 22 19 | 0 59 | 14 23 | 6 24 | 13 59 | 13 29 | 7 58 | | | n.a. |
| S 19 | 23 38 | 18 10 | 1 50 | 19 2 | 1 44 | 18 1 | 1 18 | 18 2 | 1 4 | 23 54 | 0 12 | 19 42 | 1 26 | 21 4 | 0 1 | 22 19 | 0 59 | 14 23 | 6 23 | 14 1 | 13 30 | 8 0 | | | n.a. |
| S 20 | 23 40 | 15 47 | 0 41 | 19 23 | 1 35 | 18 21 | 1 15 | 17 48 | 1 4 | 23 54 | 0 13 | 19 41 | 1 26 | 21 4 | 0 1 | 22 19 | 0 59 | 14 23 | 6 23 | 14 1 | 13 31 | 8 2 | | | n.a. |
| M21 | 23 41 | 12 40 | 0 s28 | 19 44 | 1 26 | 18 40 | 1 13 | 17 33 | 1 3 | 23 55 | 0 13 | 19 39 | 1 26 | 21 4 | 0 1 | 22 18 | 0 59 | 14 23 | 6 23 | 14 1 | 13 32 | 8 4 | | | n.a. |
| T 22 | 23 42 | 9 4 | 1 34 | 20 5 | 1 17 | 18 59 | 1 11 | 17 19 | 1 2 | 23 55 | 0 13 | 19 37 | 1 26 | 21 3 | 0 1 | 22 18 | 0 59 | 14 23 | 6 23 | 14 1 | 13 33 | 8 6 | | | n.a. |
| W23 | 23 42 | 5 10 | 2 34 | 20 26 | 1 8 | 19 17 | 1 8 | 17 5 | 1 1 | 23 55 | 0 13 | 19 36 | 1 26 | 21 3 | 0 1 | 22 18 | 0 59 | 14 23 | 6 23 | 14 1 | 13 35 | 8 8 | | | n.a. |
| T 24 | 23 42 | 1 8 | 3 26 | 20 47 | 0 59 | 19 35 | 1 6 | 16 50 | 1 1 | 23 55 | 0 13 | 19 34 | 1 26 | 21 2 | 0 1 | 22 18 | 0 59 | 14 23 | 6 23 | 14 1 | 13 36 | 8 10 | | | n.a. |
| F 25 | 23 41 | 2n53 | 4 9 | 21 8 | 0 50 | 19 53 | 1 3 | 16 35 | 1 0 | 23 55 | 0 13 | 19 32 | 1 26 | 21 2 | 0 1 | 22 18 | 0 59 | 14 23 | 6 23 | 14 1 | 13 37 | 8 12 | | | n.a. |
| S 26 | 23 40 | 6 47 | 4 41 | 21 28 | 0 42 | 20 10 | 1 1 | 16 20 | 0 59 | 23 55 | 0 13 | 19 30 | 1 26 | 21 1 | 0 1 | 22 18 | 0 59 | 14 23 | 6 23 | 14 2 | 13 38 | 8 14 | | | n.a. |
| S 27 | 23 39 | 10 25 | 5 0 | 21 47 | 0 33 | 20 26 | 0 58 | 16 5 | 0 58 | 23 55 | 0 13 | 19 29 | 1 26 | 21 1 | 0 1 | 22 18 | 0 59 | 14 23 | 6 22 | 14 4 | 13 39 | 8 16 | | | n.a. |
| M28 | 23 37 | 13 40 | 5 7 | 22 6 | 0 24 | 20 42 | 0 55 | 15 50 | 0 58 | 23 55 | 0 13 | 19 27 | 1 26 | 21 1 | 0 1 | 22 18 | 0 59 | 14 23 | 6 22 | 14 7 | 13 40 | 8 18 | | | n.a. |
| T 29 | 23 34 | 16 23 | 5 0 | 22 25 | 0 16 | 20 57 | 0 53 | 15 35 | 0 57 | 23 55 | 0 13 | 19 25 | 1 26 | 21 0 | 0 1 | 22 18 | 0 59 | 14 23 | 6 22 | 14 10 | 13 41 | 8 19 | | | n.a. |
| W30 | 23 31 | 18 25 | 4 40 | 22 42 | 0 8 | 21 11 | 0 50 | 15 19 | 0 56 | 23 55 | 0 14 | 19 23 | 1 26 | 21 0 | 0 1 | 22 17 | 0 59 | 14 22 | 6 22 | 14 13 | 13 42 | 8 21 | | | n.a. |
| T 31 | 23 s28 | 19n37 | 4 s 5 | 22 s59 | 0 s 0 | 21 s25 | 0n47 | 15 s 4 | 0 s55 | 23 s55 | 0 s14 | 19 s21 | 1 s26 | 21n 0 | 0n 1 | 22n17 | 0 s59 | 14n22 | 6 s22 | 14n16 | 13n43 | 8n23 | | | n.a. |

Julian Day Number = 1696555.5, Delta T = 03h07m45s
Ecliptic obliquity = 23°42'04, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°00'15, Lahiri = - 4°53'14 Julian Calendar 1 Dec. 69 BCE == Greg. Calendar 29 Nov. 069 BCE

The year -68 astronomical counting style corresponds to year 069 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 68 BCE
# geocentric

## JANUARY 68 BCE (-67) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 6 31 27 | 8♑53'46 | 12♋ 8 | 17♐38 | 11♐17 | 23♒11 | 1♑56 | 9♒57 | 2°R55 | 19°R21 | 1°R 6 | 22°R 5 | 23♌48 | 3♉58 | n.a. | F 1 |
| S 2 | 6 35 24 | 9°54'41 | 25° 2 | 19° 2 | 12°32 | 23°56 | 2°10 | 10° 4 | 2♊53 | 19♊19 | 1♊ 5 | 22♌ 0 | 23°45 | 4° 5 | n.a. | S 2 |
| S 3 | 6 39 20 | 10°55'36 | 8♌ 8 | 20°26 | 13°46 | 24°41 | 2°24 | 10°11 | 2°51 | 19°18 | 1° 4 | 21°57 | 23°41 | 4°11 | n.a. | S 3 |
| M 4 | 6 43 17 | 11°56'29 | 21°25 | 21°52 | 15° 1 | 25°26 | 2°38 | 10°17 | 2°50 | 19°16 | 1° 3 | 21°D56 | 23°38 | 4°18 | n.a. | M 4 |
| T 5 | 6 47 13 | 12°57'21 | 4♍53 | 23°18 | 16°15 | 26°11 | 2°52 | 10°24 | 2°48 | 19°15 | 1° 2 | 21°57 | 23°35 | 4°25 | n.a. | T 5 |
| W 6 | 6 51 10 | 13°58'12 | 18°32 | 24°45 | 17°30 | 26°56 | 3° 6 | 10°31 | 2°46 | 19°13 | 1° 1 | 21°58 | 23°32 | 4°32 | n.a. | W 6 |
| T 7 | 6 55 7 | 14°59'02 | 2♎22 | 26°14 | 18°44 | 27°42 | 3°20 | 10°38 | 2°44 | 19°12 | 1° 0 | 22° 0 | 23°29 | 4°38 | n.a. | T 7 |
| F 8 | 6 59 3 | 15°59'51 | 16°23 | 27°43 | 19°58 | 28°27 | 3°34 | 10°45 | 2°43 | 19°10 | 1° 0 | 22°R 0 | 23°25 | 4°45 | n.a. | F 8 |
| S 9 | 7 3 0 | 17° 0'39 | 0♏34 | 29°13 | 21°13 | 29°12 | 3°48 | 10°52 | 2°41 | 19° 9 | 0°59 | 21°59 | 23°22 | 4°52 | n.a. | S 9 |
| S 10 | 7 6 56 | 18° 1'26 | 14°53 | 0♑43 | 22°27 | 29°56 | 4° 2 | 10°59 | 2°39 | 19° 7 | 0°58 | 21°57 | 23°19 | 4°58 | n.a. | S 10 |
| M11 | 7 10 53 | 19° 2'11 | 29°18 | 2°15 | 23°42 | 0♓41 | 4°16 | 11° 6 | 2°38 | 19° 6 | 0°57 | 21°53 | 23°16 | 5° 5 | n.a. | M11 |
| T 12 | 7 14 49 | 20° 2'56 | 13♐43 | 3°47 | 24°56 | 1°26 | 4°30 | 11°13 | 2°36 | 19° 4 | 0°57 | 21°49 | 23°13 | 5°12 | n.a. | T 12 |
| W13 | 7 18 46 | 21° 3'39 | 28° 3 | 5°21 | 26°11 | 2°11 | 4°44 | 11°20 | 2°35 | 19° 3 | 0°56 | 21°44 | 23°10 | 5°19 | n.a. | W13 |
| T 14 | 7 22 42 | 22° 4'21 | 12♑13 | 6°55 | 27°25 | 2°56 | 4°58 | 11°27 | 2°33 | 19° 2 | 0°55 | 21°39 | 23° 6 | 5°25 | n.a. | T 14 |
| F 15 | 7 26 39 | 23° 5'01 | 26° 8 | 8°30 | 28°40 | 3°41 | 5°12 | 11°34 | 2°32 | 19° 0 | 0°54 | 21°36 | 23° 3 | 5°32 | n.a. | F 15 |
| S 16 | 7 30 36 | 24° 5'40 | 9♒45 | 10° 5 | 29°54 | 4°26 | 5°25 | 11°42 | 2°31 | 18°59 | 0°54 | 21°34 | 23° 0 | 5°39 | n.a. | S 16 |
| S 17 | 7 34 32 | 25° 6'16 | 23° 0 | 11°42 | 1♑ 9 | 5°10 | 5°39 | 11°49 | 2°29 | 18°58 | 0°53 | 21°D33 | 22°57 | 5°45 | n.a. | S 17 |
| M18 | 7 38 29 | 26° 6'51 | 5♓54 | 13°20 | 2°23 | 5°55 | 5°53 | 11°56 | 2°28 | 18°56 | 0°53 | 21°34 | 22°54 | 5°52 | n.a. | M18 |
| T 19 | 7 42 25 | 27° 7'25 | 18°29 | 14°58 | 3°38 | 6°40 | 6° 7 | 12° 3 | 2°27 | 18°55 | 0°52 | 21°35 | 22°50 | 5°59 | n.a. | T 19 |
| W20 | 7 46 22 | 28° 7'56 | 0♈46 | 16°37 | 4°52 | 7°24 | 6°20 | 12°10 | 2°26 | 18°54 | 0°51 | 21°37 | 22°47 | 6° 6 | n.a. | W20 |
| T 21 | 7 50 18 | 29° 8'25 | 12°51 | 18°18 | 6° 6 | 8° 9 | 6°34 | 12°18 | 2°25 | 18°53 | 0°51 | 21°39 | 22°44 | 6°12 | n.a. | T 21 |
| F 22 | 7 54 15 | 0♒ 8'52 | 24°47 | 19°59 | 7°21 | 8°53 | 6°48 | 12°25 | 2°24 | 18°51 | 0°50 | 21°R40 | 22°41 | 6°19 | n.a. | F 22 |
| S 23 | 7 58 11 | 1° 9'18 | 6♉39 | 21°41 | 8°35 | 9°38 | 7° 1 | 12°32 | 2°23 | 18°50 | 0°50 | 21°40 | 22°38 | 6°26 | n.a. | S 23 |
| S 24 | 8 2 8 | 2° 9'41 | 18°32 | 23°24 | 9°50 | 10°22 | 7°15 | 12°40 | 2°22 | 18°49 | 0°49 | 21°39 | 22°35 | 6°32 | n.a. | S 24 |
| M25 | 8 6 5 | 3°10'02 | 0♊31 | 25° 8 | 11° 4 | 11° 6 | 7°28 | 12°47 | 2°21 | 18°48 | 0°49 | 21°37 | 22°31 | 6°39 | n.a. | M25 |
| T 26 | 8 10 1 | 4°10'21 | 12°40 | 26°53 | 12°18 | 11°51 | 7°42 | 12°54 | 2°20 | 18°47 | 0°48 | 21°34 | 22°28 | 6°46 | n.a. | T 26 |
| W27 | 8 13 58 | 5°10'38 | 25° 2 | 28°39 | 13°33 | 12°35 | 7°55 | 13° 2 | 2°19 | 18°46 | 0°48 | 21°32 | 22°25 | 6°53 | n.a. | W27 |
| T 28 | 8 17 54 | 6°10'54 | 7♋40 | 0♒26 | 14°47 | 13°19 | 8° 8 | 13° 9 | 2°18 | 18°45 | 0°47 | 21°29 | 22°22 | 6°59 | n.a. | T 28 |
| F 29 | 8 21 51 | 7°11'07 | 20°35 | 2°14 | 16° 2 | 14° 4 | 8°22 | 13°16 | 2°18 | 18°44 | 0°47 | 21°27 | 22°19 | 7° 6 | n.a. | F 29 |
| S 30 | 8 25 47 | 8°11'18 | 3♌47 | 4° 3 | 17°16 | 14°48 | 8°35 | 13°24 | 2°17 | 18°43 | 0°47 | 21°26 | 22°16 | 7°13 | n.a. | S 30 |
| S 31 | 8 29 44 | 9♒11'27 | 17♌16 | 5♒53 | 18♑30 | 15♓32 | 8♑48 | 13♒31 | 2♊16 | 18♊42 | 0♊46 | 21°D26 | 22♌12 | 7♉19 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 23s24 | 19n51 | 3s18 | 23s15 | 0s 8 | 21s38 | 0n45 | 14s48 | 0s54 | 23s55 | 0s14 | 19s20 | 1s26 | 20n59 | 0n 1 | 22n17 | 0s59 | 14n22 | 6s22 | 14n18 | 13n44 | 8n25 | | n.a. |
| S 2 | 23 20 | 19 3 | 2 21 | 23 30 | 0 16 | 21 51 | 0 42 | 14 32 | 0 54 | 23 55 | 0 14 | 19 18 | 1 26 | 20 59 | 0 1 | 22 17 | 0 59 | 14 22 | 6 22 | 14 20 | 13 45 | 8 27 | | n.a. |
| S 3 | 23 15 | 17 14 | 1 14 | 23 44 | 0 23 | 22 3 | 0 39 | 14 16 | 0 53 | 23 55 | 0 14 | 19 16 | 1 26 | 20 58 | 0 1 | 22 17 | 0 59 | 14 22 | 6 22 | 14 21 | 13 46 | 8 29 | | n.a. |
| M 4 | 23 9 | 14 28 | 0 3 | 23 57 | 0 31 | 22 15 | 0 37 | 14 0 | 0 52 | 23 55 | 0 14 | 19 14 | 1 26 | 20 58 | 0 1 | 22 17 | 0 59 | 14 22 | 6 21 | 14 21 | 13 47 | 8 31 | | n.a. |
| T 5 | 23 4 | 10 54 | 1n10 | 24 9 | 0 38 | 22 25 | 0 34 | 13 44 | 0 51 | 23 54 | 0 14 | 19 12 | 1 26 | 20 58 | 0 1 | 22 17 | 0 59 | 14 22 | 6 21 | 14 21 | 13 48 | 8 33 | | n.a. |
| W 6 | 22 58 | 6 43 | 2 20 | 24 20 | 0 45 | 22 35 | 0 31 | 13 28 | 0 51 | 23 54 | 0 14 | 19 10 | 1 26 | 20 57 | 0 1 | 22 17 | 0 59 | 14 22 | 6 21 | 14 20 | 13 49 | 8 35 | | n.a. |
| T 7 | 22 51 | 2 8 | 3 22 | 24 30 | 0 51 | 22 45 | 0 28 | 13 11 | 0 50 | 23 54 | 0 14 | 19 8 | 1 26 | 20 57 | 0 1 | 22 17 | 0 59 | 14 22 | 6 21 | 14 20 | 13 50 | 8 37 | | n.a. |
| F 8 | 22 44 | 2s37 | 4 14 | 24 38 | 0 58 | 22 54 | 0 26 | 12 55 | 0 49 | 23 54 | 0 15 | 19 6 | 1 26 | 20 57 | 0 1 | 22 17 | 0 59 | 14 22 | 6 21 | 14 20 | 13 52 | 8 39 | | n.a. |
| S 9 | 22 36 | 7 16 | 4 50 | 24 46 | 1 4 | 23 2 | 0 23 | 12 38 | 0 48 | 23 53 | 0 15 | 19 4 | 1 26 | 20 56 | 0 1 | 22 16 | 0 59 | 14 22 | 6 21 | 14 20 | 13 53 | 8 41 | | n.a. |
| S 10 | 22 28 | 11 33 | 5 9 | 24 52 | 1 10 | 23 9 | 0 20 | 12 21 | 0 48 | 23 53 | 0 15 | 19 3 | 1 26 | 20 56 | 0 1 | 22 16 | 0 59 | 14 22 | 6 20 | 14 21 | 13 54 | 8 43 | | n.a. |
| M11 | 22 20 | 15 11 | 5 9 | 24 56 | 1 15 | 23 16 | 0 17 | 12 5 | 0 47 | 23 53 | 0 15 | 19 1 | 1 26 | 20 56 | 0 1 | 22 16 | 0 59 | 14 22 | 6 20 | 14 22 | 13 55 | 8 45 | | n.a. |
| T 12 | 22 11 | 17 54 | 4 49 | 24 59 | 1 21 | 23 22 | 0 15 | 11 48 | 0 46 | 23 52 | 0 15 | 18 59 | 1 26 | 20 55 | 0 1 | 22 16 | 0 59 | 14 22 | 6 20 | 14 23 | 13 56 | 8 47 | | n.a. |
| W13 | 22 2 | 19 30 | 4 12 | 25 1 | 1 26 | 23 27 | 0 12 | 11 31 | 0 45 | 23 52 | 0 15 | 18 57 | 1 26 | 20 55 | 0 1 | 22 16 | 0 59 | 14 22 | 6 20 | 14 25 | 13 57 | 8 49 | | n.a. |
| T 14 | 21 52 | 19 50 | 3 19 | 25 2 | 1 31 | 23 31 | 0 9 | 11 14 | 0 45 | 23 52 | 0 15 | 18 55 | 1 26 | 20 55 | 0 1 | 22 16 | 0 59 | 14 22 | 6 20 | 14 27 | 13 58 | 8 51 | | n.a. |
| F 15 | 21 42 | 18 57 | 2 15 | 25 1 | 1 35 | 23 35 | 0 6 | 10 57 | 0 44 | 23 51 | 0 15 | 18 53 | 1 26 | 20 55 | 0 1 | 22 16 | 0 59 | 14 22 | 6 20 | 14 28 | 13 59 | 8 53 | | n.a. |
| S 16 | 21 32 | 16 58 | 1 4 | 24 58 | 1 40 | 23 38 | 0 4 | 10 40 | 0 43 | 23 51 | 0 15 | 18 51 | 1 26 | 20 54 | 0 1 | 22 16 | 0 59 | 14 22 | 6 19 | 14 28 | 14 0 | 8 55 | | n.a. |
| S 17 | 21 21 | 14 7 | 0s 8 | 24 54 | 1 43 | 23 41 | 0 1 | 10 22 | 0 42 | 23 50 | 0 16 | 18 49 | 1 26 | 20 54 | 0 1 | 22 16 | 0 59 | 14 22 | 6 19 | 14 28 | 14 1 | 8 57 | | n.a. |
| M18 | 21 9 | 10 39 | 1 18 | 24 48 | 1 47 | 23 42 | 0s 2 | 10 5 | 0 42 | 23 50 | 0 16 | 18 47 | 1 26 | 20 54 | 0 1 | 22 16 | 0 59 | 14 22 | 6 19 | 14 28 | 14 2 | 8 59 | | n.a. |
| T 19 | 20 58 | 6 47 | 2 23 | 24 41 | 1 50 | 23 43 | 0 4 | 9 48 | 0 41 | 23 49 | 0 16 | 18 45 | 1 26 | 20 54 | 0 1 | 22 16 | 0 59 | 14 22 | 6 19 | 14 28 | 14 3 | 9 1 | | n.a. |
| W20 | 20 46 | 2 44 | 3 19 | 24 32 | 1 53 | 23 44 | 0 7 | 9 30 | 0 40 | 23 49 | 0 16 | 18 43 | 1 26 | 20 53 | 0 1 | 22 16 | 0 59 | 14 22 | 6 19 | 14 27 | 14 4 | 9 3 | | n.a. |
| T 21 | 20 33 | 1n21 | 4 6 | 24 21 | 1 56 | 23 43 | 0 10 | 9 13 | 0 39 | 23 48 | 0 16 | 18 40 | 1 26 | 20 53 | 0 1 | 22 15 | 0 59 | 14 23 | 6 19 | 14 27 | 14 5 | 9 5 | | n.a. |
| F 22 | 20 20 | 5 20 | 4 41 | 24 9 | 1 58 | 23 42 | 0 12 | 8 55 | 0 39 | 23 48 | 0 16 | 18 38 | 1 26 | 20 53 | 0 1 | 22 15 | 0 58 | 14 23 | 6 18 | 14 26 | 14 6 | 9 7 | | n.a. |
| S 23 | 20 7 | 9 5 | 5 5 | 23 54 | 2 0 | 23 40 | 0 15 | 8 38 | 0 38 | 23 47 | 0 16 | 18 36 | 1 26 | 20 53 | 0 1 | 22 15 | 0 58 | 14 23 | 6 18 | 14 26 | 14 7 | 9 9 | | n.a. |
| S 24 | 19 54 | 12 29 | 5 15 | 23 39 | 2 1 | 23 37 | 0 17 | 8 20 | 0 37 | 23 46 | 0 16 | 18 34 | 1 26 | 20 53 | 0 1 | 22 15 | 0 58 | 14 23 | 6 18 | 14 27 | 14 8 | 9 11 | | n.a. |
| M25 | 19 40 | 15 24 | 5 11 | 23 21 | 2 2 | 23 34 | 0 20 | 8 2 | 0 36 | 23 46 | 0 17 | 18 32 | 1 26 | 20 53 | 0 1 | 22 15 | 0 58 | 14 23 | 6 18 | 14 27 | 14 9 | 9 13 | | n.a. |
| T 26 | 19 25 | 17 42 | 4 54 | 23 1 | 2 3 | 23 30 | 0 23 | 7 44 | 0 36 | 23 45 | 0 17 | 18 30 | 1 26 | 20 52 | 0 1 | 22 15 | 0 58 | 14 23 | 6 18 | 14 28 | 14 10 | 9 15 | | n.a. |
| W27 | 19 11 | 19 13 | 4 23 | 22 40 | 2 3 | 23 25 | 0 25 | 7 27 | 0 35 | 23 44 | 0 17 | 18 28 | 1 26 | 20 52 | 0 1 | 22 15 | 0 58 | 14 23 | 6 18 | 14 29 | 14 11 | 9 17 | | n.a. |
| T 28 | 18 56 | 19 50 | 3 39 | 22 17 | 2 3 | 23 20 | 0 27 | 7 9 | 0 34 | 23 44 | 0 17 | 18 26 | 1 26 | 20 52 | 0 1 | 22 15 | 0 58 | 14 23 | 6 17 | 14 30 | 14 13 | 9 18 | | n.a. |
| F 29 | 18 41 | 19 26 | 2 42 | 21 52 | 2 2 | 23 13 | 0 30 | 6 51 | 0 33 | 23 43 | 0 17 | 18 24 | 1 27 | 20 52 | 0 1 | 22 15 | 0 58 | 14 23 | 6 17 | 14 30 | 14 14 | 9 20 | | n.a. |
| S 30 | 18 25 | 17 58 | 1 36 | 21 25 | 2 1 | 23 6 | 0 32 | 6 33 | 0 33 | 23 42 | 0 17 | 18 22 | 1 27 | 20 52 | 0 1 | 22 15 | 0 58 | 14 23 | 6 17 | 14 31 | 14 15 | 9 22 | | n.a. |
| S 31 | 18s 9 | 15n28 | 0s23 | 20s56 | 1s59 | 22s59 | 0s35 | 6s15 | 0s32 | 23s42 | 0s17 | 18s20 | 1s27 | 20n52 | 0n 1 | 22n15 | 0s58 | 14n23 | 6s17 | 14n31 | 14n16 | 9n24 | | n.a. |

Julian Day Number = 1696586.5, Delta T = 03h07m44s
Ecliptic obliquity = 23°42'04, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°00'10, Lahiri = - 4°53'10 Julian Calendar 1 Jan. 68 BCE == Greg. Calendar 30 Dec. 069 BCE

The year -67 astronomical counting style corresponds to year 068 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 68 BCE
# geocentric

## FEBRUARY 68 BCE (-67) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 8 33 40 | 10♒11'34 | 1♍ 0 | 7♒44 | 19♑45 | 16♓16 | 9♑ 1 | 13♒39 | 2°R16 | 18°R41 | 0°R46 | 21♌26 | 22♌ 9 | 7♉26 | n.a. | M 1 |
| T 2 | 8 37 37 | 11°11'39 | 14°55 | 9°36 | 20°59 | 17° 0 | 9°14 | 13°46 | 2♊15 | 18♊40 | 0♊46 | 21°26 | 22° 6 | 7°33 | n.a. | T 2 |
| W 3 | 8 41 34 | 12°11'43 | 29° 0 | 11°29 | 22°13 | 17°44 | 9°28 | 13°53 | 2°15 | 18°39 | 0°45 | 21°27 | 22° 3 | 7°40 | n.a. | W 3 |
| T 4 | 8 45 30 | 13°11'45 | 13♎10 | 13°23 | 23°28 | 18°28 | 9°41 | 14° 1 | 2°14 | 18°38 | 0°45 | 21°28 | 22° 0 | 7°46 | n.a. | T 4 |
| F 5 | 8 49 27 | 14°11'45 | 27°24 | 15°17 | 24°42 | 19°12 | 9°53 | 14° 8 | 2°14 | 18°37 | 0°45 | 21°28 | 21°56 | 7°53 | n.a. | F 5 |
| S 6 | 8 53 23 | 15°11'43 | 11♏37 | 17°13 | 25°57 | 19°56 | 10° 6 | 14°16 | 2°14 | 18°37 | 0°45 | 21°R29 | 21°53 | 8° 0 | n.a. | S 6 |
| S 7 | 8 57 20 | 16°11'39 | 25°48 | 19° 9 | 27°11 | 20°40 | 10°19 | 14°23 | 2°14 | 18°36 | 0°44 | 21°29 | 21°50 | 8° 7 | n.a. | S 7 |
| M 8 | 9 1 16 | 17°11'34 | 9♐55 | 21° 6 | 28°25 | 21°23 | 10°32 | 14°30 | 2°13 | 18°35 | 0°44 | 21°28 | 21°47 | 8°13 | n.a. | M 8 |
| T 9 | 9 5 13 | 18°11'28 | 23°55 | 23° 4 | 29°40 | 22° 7 | 10°45 | 14°38 | 2°13 | 18°34 | 0°44 | 21°28 | 21°44 | 8°20 | n.a. | T 9 |
| W10 | 9 9 9 | 19°11'19 | 7♑47 | 25° 2 | 0♒54 | 22°51 | 10°57 | 14°45 | 2°13 | 18°34 | 0°44 | 21°28 | 21°41 | 8°27 | n.a. | W10 |
| T 11 | 9 13 6 | 20°11'09 | 21°27 | 27° 0 | 2° 8 | 23°34 | 11°10 | 14°53 | 2°D13 | 18°33 | 0°44 | 21°27 | 21°37 | 8°33 | n.a. | T 11 |
| F 12 | 9 17 2 | 21°10'56 | 4♒56 | 28°58 | 3°23 | 24°18 | 11°22 | 15° 0 | 2°13 | 18°32 | 0°44 | 21°D27 | 21°34 | 8°40 | n.a. | F 12 |
| S 13 | 9 20 59 | 22°10'42 | 18° 9 | 0♓56 | 4°37 | 25° 2 | 11°35 | 15° 7 | 2°13 | 18°32 | 0°44 | 21°R27 | 21°31 | 8°47 | n.a. | S 13 |
| S 14 | 9 24 56 | 23°10'25 | 1♓ 8 | 2°53 | 5°51 | 25°45 | 11°47 | 15°15 | 2°13 | 18°31 | 0°44 | 21°27 | 21°28 | 8°54 | n.a. | S 14 |
| M15 | 9 28 52 | 24°10'07 | 13°51 | 4°50 | 7° 6 | 26°29 | 11°59 | 15°22 | 2°14 | 18°31 | 0°D44 | 21°27 | 21°25 | 9° 0 | n.a. | M15 |
| T 16 | 9 32 49 | 25° 9'46 | 26°20 | 6°45 | 8°20 | 27°12 | 12°12 | 15°29 | 2°14 | 18°30 | 0°44 | 21°27 | 21°22 | 9° 7 | n.a. | T 16 |
| W17 | 9 36 45 | 26° 9'22 | 8♈35 | 8°39 | 9°34 | 27°55 | 12°24 | 15°37 | 2°14 | 18°30 | 0°44 | 21°26 | 21°18 | 9°14 | n.a. | W17 |
| T 18 | 9 40 42 | 27° 8'57 | 20°40 | 10°31 | 10°48 | 28°39 | 12°36 | 15°44 | 2°14 | 18°29 | 0°44 | 21°26 | 21°15 | 9°20 | n.a. | T 18 |
| F 19 | 9 44 38 | 28° 8'29 | 2♉36 | 12°20 | 12° 3 | 29°22 | 12°48 | 15°51 | 2°15 | 18°29 | 0°44 | 21°25 | 21°12 | 9°27 | n.a. | F 19 |
| S 20 | 9 48 35 | 29° 7'58 | 14°29 | 14° 7 | 13°17 | 0♈ 5 | 13° 0 | 15°59 | 2°15 | 18°29 | 0°44 | 21°24 | 21° 9 | 9°34 | n.a. | S 20 |
| S 21 | 9 52 31 | 0♓ 7'26 | 26°22 | 15°50 | 14°31 | 0°49 | 13°12 | 16° 6 | 2°16 | 18°28 | 0°44 | 21°D24 | 21° 6 | 9°41 | n.a. | S 21 |
| M22 | 9 56 28 | 1° 6'51 | 8♊20 | 17°30 | 15°45 | 1°32 | 13°23 | 16°13 | 2°16 | 18°28 | 0°44 | 21°24 | 21° 2 | 9°47 | n.a. | M22 |
| T 23 | 10 0 25 | 2° 6'13 | 20°28 | 19° 5 | 17° 0 | 2°15 | 13°35 | 16°20 | 2°17 | 18°28 | 0°44 | 21°25 | 20°59 | 9°54 | n.a. | T 23 |
| W24 | 10 4 21 | 3° 5'34 | 2♋51 | 20°36 | 18°14 | 2°58 | 13°47 | 16°28 | 2°18 | 18°28 | 0°44 | 21°25 | 20°56 | 10° 1 | n.a. | W24 |
| T 25 | 10 8 18 | 4° 4'51 | 15°31 | 22° 2 | 19°28 | 3°41 | 13°58 | 16°35 | 2°18 | 18°27 | 0°45 | 21°27 | 20°53 | 10° 8 | n.a. | T 25 |
| F 26 | 10 12 14 | 5° 4'07 | 28°32 | 23°22 | 20°42 | 4°24 | 14°10 | 16°42 | 2°19 | 18°27 | 0°45 | 21°28 | 20°50 | 10°14 | n.a. | F 26 |
| S 27 | 10 16 11 | 6° 3'20 | 11♌55 | 24°37 | 21°56 | 5° 7 | 14°21 | 16°49 | 2°20 | 18°27 | 0°45 | 21°28 | 20°47 | 10°21 | n.a. | S 27 |
| S 28 | 10 20 7 | 7♓ 2'31 | 25♌42 | 25♓46 | 23♒11 | 5♈50 | 14♑32 | 16♒56 | 2♊21 | 18♊27 | 0♊45 | 21°R29 | 20♌43 | 10♉28 | n.a. | S 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 17s53 | 12n 4 | 0n53 | 20s25 | 1s57 | 22s50 | 0s37 | 5s57 | 0s31 | 23s41 | 0s17 | 18s18 | 1s27 | 20n52 | 0n 1 | 22n15 | 0s58 | 14n24 | 6s17 | 14n31 | 14n17 | 9n26 | | n.a. |
| T 2 | 17 36 | 7 57 | 2 7 | 19 53 | 1 54 | 22 41 | 0 39 | 5 39 | 0 30 | 23 40 | 0 18 | 18 15 | 1 27 | 20 52 | 0 1 | 22 15 | 0 58 | 14 24 | 6 16 | 14 31 | 14 18 | 9 28 | | n.a. |
| W 3 | 17 20 | 3 21 | 3 13 | 19 18 | 1 51 | 22 32 | 0 41 | 5 21 | 0 30 | 23 39 | 0 18 | 18 13 | 1 27 | 20 51 | 0 1 | 22 15 | 0 58 | 14 24 | 6 16 | 14 30 | 14 19 | 9 30 | | n.a. |
| T 4 | 17 2 | 1s26 | 4 9 | 18 42 | 1 47 | 22 21 | 0 44 | 5 3 | 0 29 | 23 38 | 0 18 | 18 11 | 1 27 | 20 51 | 0 1 | 22 15 | 0 58 | 14 24 | 6 16 | 14 30 | 14 20 | 9 32 | | n.a. |
| F 5 | 16 45 | 6 9 | 4 50 | 18 4 | 1 43 | 22 10 | 0 46 | 4 45 | 0 28 | 23 38 | 0 18 | 18 9 | 1 27 | 20 51 | 0 1 | 22 15 | 0 58 | 14 24 | 6 16 | 14 30 | 14 21 | 9 34 | | n.a. |
| S 6 | 16 27 | 10 32 | 5 12 | 17 24 | 1 38 | 21 58 | 0 48 | 4 27 | 0 27 | 23 37 | 0 18 | 18 7 | 1 27 | 20 51 | 0 1 | 22 15 | 0 58 | 14 24 | 6 16 | 14 30 | 14 22 | 9 36 | | n.a. |
| S 7 | 16 9 | 14 18 | 5 16 | 16 42 | 1 32 | 21 46 | 0 50 | 4 9 | 0 27 | 23 36 | 0 18 | 18 5 | 1 27 | 20 51 | 0 1 | 22 15 | 0 58 | 14 24 | 6 15 | 14 30 | 14 23 | 9 38 | | n.a. |
| M 8 | 15 51 | 17 13 | 5 1 | 15 58 | 1 26 | 21 33 | 0 52 | 3 51 | 0 26 | 23 35 | 0 18 | 18 3 | 1 27 | 20 51 | 0 1 | 22 15 | 0 58 | 14 24 | 6 15 | 14 30 | 14 24 | 9 40 | | n.a. |
| T 9 | 15 33 | 19 6 | 4 28 | 15 13 | 1 19 | 21 19 | 0 54 | 3 33 | 0 25 | 23 34 | 0 19 | 18 1 | 1 27 | 20 51 | 0 1 | 22 15 | 0 58 | 14 25 | 6 15 | 14 30 | 14 25 | 9 42 | | n.a. |
| W10 | 15 14 | 19 49 | 3 39 | 14 27 | 1 12 | 21 5 | 0 56 | 3 14 | 0 24 | 23 33 | 0 19 | 17 58 | 1 27 | 20 51 | 0 1 | 22 15 | 0 58 | 14 25 | 6 15 | 14 30 | 14 26 | 9 44 | | n.a. |
| T 11 | 14 55 | 19 21 | 2 39 | 13 38 | 1 4 | 20 50 | 0 58 | 2 56 | 0 24 | 23 32 | 0 19 | 17 56 | 1 27 | 20 51 | 0 1 | 22 15 | 0 58 | 14 25 | 6 15 | 14 30 | 14 27 | 9 46 | | n.a. |
| F 12 | 14 36 | 17 47 | 1 30 | 12 49 | 0 55 | 20 35 | 1 0 | 2 38 | 0 23 | 23 31 | 0 19 | 17 54 | 1 27 | 20 51 | 0 1 | 22 15 | 0 58 | 14 25 | 6 15 | 14 30 | 14 28 | 9 48 | | n.a. |
| S 13 | 14 16 | 15 16 | 0 18 | 11 58 | 0 46 | 20 19 | 1 1 | 2 20 | 0 22 | 23 30 | 0 19 | 17 52 | 1 27 | 20 51 | 0 1 | 22 15 | 0 58 | 14 25 | 6 14 | 14 30 | 14 29 | 9 50 | | n.a. |
| S 14 | 13 57 | 12 1 | 0s53 | 11 7 | 0 36 | 20 2 | 1 3 | 2 2 | 0 21 | 23 29 | 0 19 | 17 50 | 1 28 | 20 51 | 0 1 | 22 15 | 0 58 | 14 25 | 6 14 | 14 30 | 14 30 | 9 52 | | n.a. |
| M15 | 13 37 | 8 17 | 2 1 | 10 14 | 0 25 | 19 45 | 1 5 | 1 44 | 0 21 | 23 29 | 0 19 | 17 48 | 1 28 | 20 51 | 0 1 | 22 15 | 0 58 | 14 26 | 6 14 | 14 30 | 14 31 | 9 54 | | n.a. |
| T 16 | 13 17 | 4 15 | 3 2 | 9 21 | 0 14 | 19 27 | 1 6 | 1 26 | 0 20 | 23 28 | 0 20 | 17 46 | 1 28 | 20 51 | 0 1 | 22 15 | 0 58 | 14 26 | 6 14 | 14 30 | 14 32 | 9 56 | | n.a. |
| W17 | 12 56 | 0 7 | 3 53 | 8 28 | 0 3 | 19 8 | 1 8 | 1 8 | 0 19 | 23 27 | 0 20 | 17 44 | 1 28 | 20 51 | 0 1 | 22 15 | 0 57 | 14 26 | 6 14 | 14 31 | 14 33 | 9 57 | | n.a. |
| T 18 | 12 36 | 3n57 | 4 32 | 7 34 | 0n 9 | 18 49 | 1 9 | 0 50 | 0 19 | 23 26 | 0 20 | 17 41 | 1 28 | 20 51 | 0 1 | 22 15 | 0 57 | 14 26 | 6 13 | 14 31 | 14 34 | 9 59 | | n.a. |
| F 19 | 12 15 | 7 49 | 5 0 | 6 41 | 0 21 | 18 30 | 1 11 | 0 32 | 0 18 | 23 25 | 0 20 | 17 39 | 1 28 | 20 52 | 0 1 | 22 15 | 0 57 | 14 26 | 6 13 | 14 31 | 14 35 | 10 1 | | n.a. |
| S 20 | 11 54 | 11 21 | 5 15 | 5 48 | 0 34 | 18 10 | 1 12 | 0 14 | 0 17 | 23 24 | 0 20 | 17 37 | 1 28 | 20 52 | 0 1 | 22 15 | 0 57 | 14 27 | 6 13 | 14 31 | 14 36 | 10 3 | | n.a. |
| S 21 | 11 33 | 14 26 | 5 16 | 4 56 | 0 46 | 17 50 | 1 13 | 0n 4 | 0 16 | 23 23 | 0 20 | 17 35 | 1 28 | 20 52 | 0 1 | 22 15 | 0 57 | 14 27 | 6 13 | 14 31 | 14 37 | 10 5 | | n.a. |
| M22 | 11 12 | 16 57 | 5 3 | 4 5 | 0 59 | 17 29 | 1 15 | 0 22 | 0 16 | 23 21 | 0 20 | 17 33 | 1 28 | 20 52 | 0 1 | 22 15 | 0 57 | 14 27 | 6 13 | 14 31 | 14 38 | 10 7 | | n.a. |
| T 23 | 10 50 | 18 45 | 4 37 | 3 16 | 1 12 | 17 7 | 1 16 | 0 40 | 0 15 | 23 20 | 0 21 | 17 31 | 1 28 | 20 52 | 0 1 | 22 15 | 0 57 | 14 27 | 6 12 | 14 31 | 14 39 | 10 9 | | n.a. |
| W24 | 10 29 | 19 42 | 3 58 | 2 28 | 1 25 | 16 45 | 1 17 | 0 58 | 0 14 | 23 19 | 0 21 | 17 29 | 1 28 | 20 52 | 0 1 | 22 15 | 0 57 | 14 28 | 6 12 | 14 31 | 14 40 | 10 11 | | n.a. |
| T 25 | 10 7 | 19 42 | 3 6 | 1 42 | 1 38 | 16 23 | 1 18 | 1 16 | 0 14 | 23 18 | 0 21 | 17 27 | 1 28 | 20 52 | 0 1 | 22 15 | 0 57 | 14 28 | 6 12 | 14 31 | 14 41 | 10 13 | | n.a. |
| F 26 | 9 45 | 18 40 | 2 4 | 0 59 | 1 50 | 16 0 | 1 19 | 1 34 | 0 13 | 23 17 | 0 21 | 17 25 | 1 29 | 20 53 | 0 1 | 22 15 | 0 57 | 14 28 | 6 12 | 14 30 | 14 42 | 10 15 | | n.a. |
| S 27 | 9 23 | 16 34 | 0 53 | 0 18 | 2 2 | 15 37 | 1 20 | 1 52 | 0 12 | 23 16 | 0 21 | 17 22 | 1 29 | 20 53 | 0 1 | 22 15 | 0 57 | 14 28 | 6 12 | 14 30 | 14 44 | 10 17 | | n.a. |
| S 28 | 9s 1 | 13n28 | 0n23 | 0n21 | 2n14 | 15s13 | 1s21 | 2n10 | 0s12 | 23s15 | 0s21 | 17s20 | 1s29 | 20n53 | 0n 1 | 22n15 | 0s57 | 14n28 | 6s11 | 14n30 | 14n45 | 10n19 | | n.a. |

Julian Day Number = 1696617.5, Delta T = 03h07m43s
Ecliptic obliquity = 23°42'04, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°00'06, Lahiri = - 4°53'06 Julian Calendar 1 Feb. 68 BCE == Greg. Calendar 30 Jan. 068 BCE

The year -67 astronomical counting style corresponds to year 068 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 68 BCE
# geocentric

## MARCH 68 BCE (-67) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 10 24 4 | 8♓ 1'39 | 9♍48 | 26♓48 | 24♒25 | 6♈33 | 14♉43 | 17♒ 3 | 2♊22 | 18°R27 | 0♊46 | 21°R28 | 20♌40 | 10♉34 | n.a. | M 1 |
| T 2 | 10 28 0 | 9° 0'46 | 24°11 | 27°44 | 25°39 | 7°15 | 14°54 | 17°10 | 2°23 | 18°D27 | 0°46 | 21♌26 | 20°37 | 10°41 | n.a. | T 2 |
| W 3 | 10 31 57 | 9°59'50 | 8♎45 | 28°34 | 26°53 | 7°58 | 15° 5 | 17°17 | 2°24 | 18♊27 | 0°46 | 21°24 | 20°34 | 10°48 | n.a. | W 3 |
| T 4 | 10 35 53 | 10°58'52 | 23°23 | 29°16 | 28° 7 | 8°41 | 15°16 | 17°24 | 2°25 | 18°27 | 0°47 | 21°22 | 20°31 | 10°55 | n.a. | T 4 |
| F 5 | 10 39 50 | 11°57'53 | 8♏ 0 | 29°51 | 29°21 | 9°23 | 15°27 | 17°31 | 2°26 | 18°27 | 0°47 | 21°19 | 20°27 | 11° 1 | n.a. | F 5 |
| S 6 | 10 43 47 | 12°56'51 | 22°28 | 0♈20 | 0♓35 | 10° 6 | 15°37 | 17°38 | 2°27 | 18°27 | 0°48 | 21°17 | 20°24 | 11° 8 | n.a. | S 6 |
| S 7 | 10 47 43 | 13°55'48 | 6♐45 | 0°41 | 1°49 | 10°49 | 15°48 | 17°45 | 2°29 | 18°27 | 0°48 | 21°16 | 20°21 | 11°15 | n.a. | S 7 |
| M 8 | 10 51 40 | 14°54'43 | 20°48 | 0°56 | 3° 4 | 11°31 | 15°59 | 17°52 | 2°30 | 18°28 | 0°48 | 21°D16 | 20°18 | 11°21 | n.a. | M 8 |
| T 9 | 10 55 36 | 15°53'36 | 4♑35 | 1° 3 | 4°18 | 12°14 | 16° 9 | 17°59 | 2°31 | 18°28 | 0°49 | 21°17 | 20°15 | 11°28 | n.a. | T 9 |
| W10 | 10 59 33 | 16°52'28 | 18° 6 | 1°R 4 | 5°32 | 12°56 | 16°19 | 18° 6 | 2°33 | 18°28 | 0°49 | 21°18 | 20°12 | 11°35 | n.a. | W10 |
| T 11 | 11 3 29 | 17°51'17 | 1♒23 | 0°59 | 6°46 | 13°38 | 16°29 | 18°13 | 2°34 | 18°28 | 0°50 | 21°20 | 20° 8 | 11°42 | n.a. | T 11 |
| F 12 | 11 7 26 | 18°50'05 | 14°26 | 0°47 | 8° 0 | 14°21 | 16°39 | 18°19 | 2°35 | 18°29 | 0°50 | 21°21 | 20° 5 | 11°48 | n.a. | F 12 |
| S 13 | 11 11 22 | 19°48'51 | 27°17 | 0°29 | 9°14 | 15° 3 | 16°49 | 18°26 | 2°37 | 18°29 | 0°51 | 21°R21 | 20° 2 | 11°55 | n.a. | S 13 |
| S 14 | 11 15 19 | 20°47'34 | 9♓55 | 0° 5 | 10°28 | 15°45 | 16°59 | 18°33 | 2°39 | 18°29 | 0°52 | 21°20 | 19°59 | 12° 2 | n.a. | S 14 |
| M15 | 11 19 16 | 21°46'16 | 22°23 | 29♓37 | 11°42 | 16°28 | 17° 9 | 18°40 | 2°40 | 18°30 | 0°52 | 21°17 | 19°56 | 12° 8 | n.a. | M15 |
| T 16 | 11 23 12 | 22°44'55 | 4♈40 | 29° 5 | 12°56 | 17°10 | 17°18 | 18°46 | 2°42 | 18°30 | 0°53 | 21°12 | 19°53 | 12°15 | n.a. | T 16 |
| W17 | 11 27 9 | 23°43'33 | 16°49 | 28°28 | 14°10 | 17°52 | 17°28 | 18°53 | 2°44 | 18°31 | 0°54 | 21° 7 | 19°49 | 12°22 | n.a. | W17 |
| T 18 | 11 31 5 | 24°42'08 | 28°49 | 27°49 | 15°24 | 18°34 | 17°37 | 18°59 | 2°45 | 18°31 | 0°54 | 21° 1 | 19°46 | 12°29 | n.a. | T 18 |
| F 19 | 11 35 2 | 25°40'41 | 10♉44 | 27° 8 | 16°38 | 19°16 | 17°46 | 19° 6 | 2°47 | 18°32 | 0°55 | 20°55 | 19°43 | 12°35 | n.a. | F 19 |
| S 20 | 11 38 58 | 26°39'12 | 22°36 | 26°26 | 17°52 | 19°58 | 17°55 | 19°12 | 2°49 | 18°32 | 0°56 | 20°50 | 19°40 | 12°42 | n.a. | S 20 |
| S 21 | 11 42 55 | 27°37'41 | 4♊28 | 25°43 | 19° 6 | 20°40 | 18° 4 | 19°18 | 2°51 | 18°33 | 0°56 | 20°45 | 19°37 | 12°49 | n.a. | S 21 |
| M22 | 11 46 51 | 28°36'08 | 16°25 | 25° 0 | 20°20 | 21°22 | 18°13 | 19°25 | 2°53 | 18°34 | 0°57 | 20°43 | 19°33 | 12°56 | n.a. | M22 |
| T 23 | 11 50 48 | 29°34'32 | 28°30 | 24°18 | 21°34 | 22° 4 | 18°22 | 19°31 | 2°55 | 18°34 | 0°58 | 20°D42 | 19°30 | 13° 2 | n.a. | T 23 |
| W24 | 11 54 44 | 0♈32'55 | 10♋49 | 23°38 | 22°48 | 22°45 | 18°30 | 19°37 | 2°57 | 18°35 | 0°59 | 20°43 | 19°27 | 13° 9 | n.a. | W24 |
| T 25 | 11 58 41 | 1°31'15 | 23°26 | 23° 0 | 24° 2 | 23°27 | 18°39 | 19°43 | 2°59 | 18°36 | 0°59 | 20°44 | 19°24 | 13°16 | n.a. | T 25 |
| F 26 | 12 2 38 | 2°29'32 | 6♌26 | 22°26 | 25°16 | 24° 9 | 18°47 | 19°50 | 3° 1 | 18°37 | 1° 0 | 20°45 | 19°21 | 13°22 | n.a. | F 26 |
| S 27 | 12 6 34 | 3°27'48 | 19°51 | 21°55 | 26°30 | 24°51 | 18°55 | 19°56 | 3° 3 | 18°37 | 1° 1 | 20°R46 | 19°18 | 13°29 | n.a. | S 27 |
| S 28 | 12 10 31 | 4°26'02 | 3♍43 | 21°27 | 27°44 | 25°32 | 19° 3 | 20° 2 | 3° 5 | 18°38 | 1° 2 | 20°45 | 19°14 | 13°36 | n.a. | S 28 |
| M29 | 12 14 27 | 5°24'13 | 18° 2 | 21° 4 | 28°58 | 26°14 | 19°11 | 20° 8 | 3° 8 | 18°39 | 1° 3 | 20°43 | 19°11 | 13°43 | n.a. | M29 |
| T 30 | 12 18 24 | 6°22'22 | 2♎43 | 20°46 | 0♈12 | 26°55 | 19°19 | 20°14 | 3°10 | 18°40 | 1° 4 | 20°38 | 19° 8 | 13°49 | n.a. | T 30 |
| W31 | 12 22 20 | 7♈20'30 | 17♎40 | 20♓32 | 1♈26 | 27♈37 | 19♉27 | 20♒19 | 3♊12 | 18♊41 | 1♊ 5 | 20♌32 | 19♌ 5 | 13♉56 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| M 1 | 8s39 | 9n31 | 1n40 | 0n56 | 2n25 | 14s49 | 1s22 | 2n28 | 0s11 | 23s14 | 0s21 | 17s18 | 1s29 | 20n53 | 0n 1 | 22n15 | 0s57 | 14n29 | 6s11 | 14n30 | 14n46 | 10n21 | | | n.a. |
| T 2 | 8 17 | 4 57 | 2 51 | 1 28 | 2 36 | 14 24 | 1 23 | 2 45 | 0 10 | 23 13 | 0 22 | 17 16 | 1 29 | 20 53 | 0 1 | 22 15 | 0 57 | 14 29 | 6 11 | 14 31 | 14 47 | 10 23 | | | n.a. |
| W 3 | 7 54 | 0 3 | 3 52 | 1 57 | 2 45 | 13 59 | 1 23 | 3 3 | 0 9 | 23 12 | 0 22 | 17 14 | 1 29 | 20 53 | 0 1 | 22 15 | 0 57 | 14 29 | 6 11 | 14 31 | 14 48 | 10 25 | | | n.a. |
| T 4 | 7 32 | 4s53 | 4 38 | 2 22 | 2 54 | 13 34 | 1 24 | 3 21 | 0 9 | 23 11 | 0 22 | 17 12 | 1 29 | 20 54 | 0 1 | 22 15 | 0 57 | 14 30 | 6 11 | 14 32 | 14 49 | 10 26 | | | n.a. |
| F 5 | 7 9 | 9 30 | 5 6 | 2 43 | 3 2 | 13 9 | 1 25 | 3 38 | 0 8 | 23 10 | 0 22 | 17 10 | 1 29 | 20 54 | 0 1 | 22 15 | 0 57 | 14 30 | 6 10 | 14 33 | 14 50 | 10 28 | | | n.a. |
| S 6 | 6 46 | 13 31 | 5 15 | 3 1 | 3 9 | 12 43 | 1 25 | 3 56 | 0 7 | 23 9 | 0 22 | 17 8 | 1 29 | 20 54 | 0 1 | 22 15 | 0 57 | 14 30 | 6 10 | 14 34 | 14 51 | 10 30 | | | n.a. |
| S 7 | 6 23 | 16 41 | 5 3 | 3 15 | 3 15 | 12 16 | 1 26 | 4 13 | 0 7 | 23 8 | 0 22 | 17 6 | 1 30 | 20 54 | 0 1 | 22 15 | 0 57 | 14 30 | 6 10 | 14 34 | 14 52 | 10 32 | | | n.a. |
| M 8 | 6 0 | 18 49 | 4 34 | 3 25 | 3 19 | 11 50 | 1 26 | 4 31 | 0 6 | 23 6 | 0 23 | 17 4 | 1 30 | 20 55 | 0 1 | 22 15 | 0 57 | 14 31 | 6 10 | 14 34 | 14 53 | 10 34 | | | n.a. |
| T 9 | 5 37 | 19 48 | 3 49 | 3 31 | 3 23 | 11 23 | 1 26 | 4 48 | 0 5 | 23 5 | 0 23 | 17 2 | 1 30 | 20 55 | 0 1 | 22 15 | 0 57 | 14 31 | 6 10 | 14 34 | 14 54 | 10 36 | | | n.a. |
| W10 | 5 14 | 19 37 | 2 53 | 3 33 | 3 24 | 10 55 | 1 27 | 5 5 | 0 5 | 23 4 | 0 23 | 17 0 | 1 30 | 20 55 | 0 1 | 22 15 | 0 57 | 14 31 | 6 10 | 14 33 | 14 55 | 10 38 | | | n.a. |
| T 11 | 4 51 | 18 19 | 1 47 | 3 31 | 3 25 | 10 28 | 1 27 | 5 23 | 0 4 | 23 3 | 0 23 | 16 58 | 1 30 | 20 56 | 0 1 | 22 15 | 0 57 | 14 31 | 6 9 | 14 33 | 14 56 | 10 40 | | | n.a. |
| F 12 | 4 28 | 16 5 | 0 38 | 3 25 | 3 24 | 10 0 | 1 27 | 5 40 | 0 3 | 23 2 | 0 23 | 16 56 | 1 30 | 20 56 | 0 1 | 22 15 | 0 57 | 14 32 | 6 9 | 14 32 | 14 57 | 10 42 | | | n.a. |
| S 13 | 4 5 | 13 3 | 0s32 | 3 16 | 3 21 | 9 32 | 1 27 | 5 57 | 0 3 | 23 1 | 0 23 | 16 54 | 1 30 | 20 56 | 0 1 | 22 16 | 0 56 | 14 32 | 6 9 | 14 32 | 14 58 | 10 44 | | | n.a. |
| S 14 | 3 41 | 9 28 | 1 40 | 3 3 | 3 17 | 9 4 | 1 27 | 6 14 | 0 2 | 23 0 | 0 24 | 16 52 | 1 31 | 20 57 | 0 2 | 22 16 | 0 56 | 14 32 | 6 9 | 14 33 | 14 59 | 10 46 | | | n.a. |
| M15 | 3 18 | 5 31 | 2 42 | 2 46 | 3 11 | 8 35 | 1 27 | 6 31 | 0 1 | 22 59 | 0 24 | 16 50 | 1 31 | 20 57 | 0 2 | 22 16 | 0 56 | 14 33 | 6 9 | 14 34 | 15 0 | 10 48 | | | n.a. |
| T 16 | 2 54 | 1 24 | 3 35 | 2 26 | 3 4 | 8 6 | 1 27 | 6 48 | 0 1 | 22 58 | 0 24 | 16 48 | 1 31 | 20 57 | 0 2 | 22 16 | 0 56 | 14 33 | 6 8 | 14 35 | 15 1 | 10 50 | | | n.a. |
| W17 | 2 31 | 2n43 | 4 17 | 2 4 | 2 55 | 7 37 | 1 27 | 7 5 | 0 0 | 22 57 | 0 24 | 16 46 | 1 31 | 20 58 | 0 2 | 22 16 | 0 56 | 14 33 | 6 8 | 14 37 | 15 2 | 10 51 | | | n.a. |
| T 18 | 2 8 | 6 41 | 4 48 | 1 39 | 2 45 | 7 8 | 1 26 | 7 22 | 0n 1 | 22 56 | 0 24 | 16 44 | 1 31 | 20 58 | 0 2 | 22 16 | 0 56 | 14 34 | 6 8 | 14 39 | 15 3 | 10 53 | | | n.a. |
| F 19 | 1 44 | 10 22 | 5 6 | 1 12 | 2 34 | 6 39 | 1 26 | 7 38 | 0 1 | 22 55 | 0 25 | 16 42 | 1 31 | 20 58 | 0 2 | 22 16 | 0 56 | 14 34 | 6 8 | 14 41 | 15 4 | 10 55 | | | n.a. |
| S 20 | 1 21 | 13 37 | 5 11 | 0 43 | 2 21 | 6 9 | 1 26 | 7 55 | 0 2 | 22 54 | 0 25 | 16 40 | 1 31 | 20 59 | 0 2 | 22 16 | 0 56 | 14 34 | 6 8 | 14 43 | 15 5 | 10 57 | | | n.a. |
| S 21 | 0 57 | 16 19 | 5 2 | 0 13 | 2 7 | 5 40 | 1 25 | 8 12 | 0 2 | 22 53 | 0 25 | 16 38 | 1 32 | 20 59 | 0 2 | 22 16 | 0 56 | 14 34 | 6 8 | 14 44 | 15 6 | 10 59 | | | n.a. |
| M22 | 0 34 | 18 21 | 4 40 | 0s17 | 1 53 | 5 10 | 1 25 | 8 28 | 0 3 | 22 52 | 0 25 | 16 37 | 1 32 | 20 59 | 0 2 | 22 16 | 0 56 | 14 35 | 6 7 | 14 45 | 15 7 | 11 1 | | | n.a. |
| T 23 | 0 10 | 19 36 | 4 6 | 0 48 | 1 37 | 4 40 | 1 24 | 8 45 | 0 4 | 22 51 | 0 25 | 16 35 | 1 32 | 21 0 | 0 2 | 22 16 | 0 56 | 14 35 | 6 7 | 14 45 | 15 8 | 11 3 | | | n.a. |
| W24 | 0n13 | 19 56 | 3 20 | 1 19 | 1 21 | 4 10 | 1 23 | 9 1 | 0 4 | 22 50 | 0 25 | 16 33 | 1 32 | 21 0 | 0 2 | 22 17 | 0 56 | 14 35 | 6 7 | 14 45 | 15 9 | 11 5 | | | n.a. |
| T 25 | 0 37 | 19 18 | 2 23 | 1 49 | 1 5 | 3 39 | 1 23 | 9 17 | 0 5 | 22 49 | 0 26 | 16 31 | 1 32 | 21 1 | 0 2 | 22 17 | 0 56 | 14 36 | 6 7 | 14 44 | 15 10 | 11 7 | | | n.a. |
| F 26 | 1 0 | 17 38 | 1 17 | 2 18 | 0 48 | 3 9 | 1 22 | 9 33 | 0 6 | 22 48 | 0 26 | 16 29 | 1 32 | 21 1 | 0 2 | 22 17 | 0 56 | 14 36 | 6 7 | 14 44 | 15 11 | 11 9 | | | n.a. |
| S 27 | 1 23 | 14 57 | 0 5 | 2 45 | 0 32 | 2 39 | 1 21 | 9 49 | 0 6 | 22 47 | 0 26 | 16 27 | 1 32 | 21 1 | 0 2 | 22 17 | 0 56 | 14 36 | 6 7 | 14 44 | 15 12 | 11 11 | | | n.a. |
| S 28 | 1 47 | 11 20 | 1n10 | 3 11 | 0 15 | 2 8 | 1 20 | 10 5 | 0 7 | 22 46 | 0 26 | 16 26 | 1 33 | 21 2 | 0 2 | 22 17 | 0 56 | 14 37 | 6 6 | 14 44 | 15 13 | 11 12 | | | n.a. |
| M29 | 2 10 | 6 57 | 2 22 | 3 35 | 0s 1 | 1 38 | 1 19 | 10 21 | 0 8 | 22 45 | 0 26 | 16 24 | 1 33 | 21 2 | 0 2 | 22 17 | 0 56 | 14 37 | 6 6 | 14 45 | 15 14 | 11 14 | | | n.a. |
| T 30 | 2 33 | 2 4 | 3 27 | 3 57 | 0 17 | 1 7 | 1 18 | 10 37 | 0 8 | 22 44 | 0 27 | 16 22 | 1 33 | 21 3 | 0 2 | 22 17 | 0 56 | 14 37 | 6 6 | 14 46 | 15 15 | 11 16 | | | n.a. |
| W31 | 2n57 | 3s 2 | 4n19 | 4s17 | 0s32 | 0s36 | 1s17 | 10n52 | 0n 9 | 22s43 | 0s27 | 16s20 | 1s33 | 21n 3 | 0n 2 | 22n17 | 0s56 | 14n38 | 6s 6 | 14n48 | 15n16 | 11n18 | | | n.a. |

Julian Day Number = 1696645.5, Delta T = 03h07m42s
Ecliptic obliquity = 23°42'05, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°00'02, Lahiri = - 4°53'02 Julian Calendar 1 March 68 BCE == Greg. Calendar 27 Feb. 068 BCE

The year -67 astronomical counting style corresponds to year 068 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 68 BCE
# geocentric

## APRIL 68 BCE (-67) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 26 17 | 8♈18'36 | 2♏44 | 20°R23 | 2♈40 | 28♈18 | 19♑34 | 20♒25 | 3♊15 | 18♊42 | 1♊ 6 | 20°R25 | 19♌ 2 | 14♉ 3 | n.a. | T 1 |
| F 2 | 12 30 13 | 9°16'40 | 17°45 | 20°D19 | 3°53 | 29° 0 | 19°42 | 20°31 | 3°17 | 18°43 | 1° 6 | 20♌18 | 18°59 | 14°10 | n.a. | F 2 |
| S 3 | 12 34 10 | 10°14'43 | 2♐35 | 20♓19 | 5° 7 | 29°41 | 19°49 | 20°37 | 3°20 | 18°44 | 1° 7 | 20°12 | 18°55 | 14°16 | n.a. | S 3 |
| S 4 | 12 38 7 | 11°12'44 | 17° 6 | 20°25 | 6°21 | 0♉22 | 19°56 | 20°42 | 3°22 | 18°45 | 1° 8 | 20° 7 | 18°52 | 14°23 | n.a. | S 4 |
| M 5 | 12 42 3 | 12°10'44 | 1♑15 | 20°35 | 7°35 | 1° 4 | 20° 3 | 20°48 | 3°24 | 18°46 | 1° 9 | 20° 5 | 18°49 | 14°30 | n.a. | M 5 |
| T 6 | 12 46 0 | 13° 8'42 | 15° 1 | 20°50 | 8°49 | 1°45 | 20°10 | 20°53 | 3°27 | 18°47 | 1°10 | 20°D 5 | 18°46 | 14°36 | n.a. | T 6 |
| W 7 | 12 49 56 | 14° 6'40 | 28°25 | 21° 9 | 10° 3 | 2°26 | 20°16 | 20°59 | 3°30 | 18°48 | 1°11 | 20° 5 | 18°43 | 14°43 | n.a. | W 7 |
| T 8 | 12 53 53 | 15° 4'35 | 11♒29 | 21°33 | 11°17 | 3° 7 | 20°23 | 21° 4 | 3°32 | 18°49 | 1°13 | 20° 6 | 18°39 | 14°50 | n.a. | T 8 |
| F 9 | 12 57 49 | 16° 2'29 | 24°16 | 22° 1 | 12°30 | 3°49 | 20°29 | 21° 9 | 3°35 | 18°51 | 1°14 | 20°R 6 | 18°36 | 14°57 | n.a. | F 9 |
| S 10 | 13 1 46 | 17° 0'22 | 6♓49 | 22°34 | 13°44 | 4°30 | 20°35 | 21°15 | 3°38 | 18°52 | 1°15 | 20° 5 | 18°33 | 15° 3 | n.a. | S 10 |
| S 11 | 13 5 42 | 17°58'13 | 19°11 | 23°10 | 14°58 | 5°11 | 20°41 | 21°20 | 3°40 | 18°53 | 1°16 | 20° 1 | 18°30 | 15°10 | n.a. | S 11 |
| M12 | 13 9 39 | 18°56'03 | 1♈24 | 23°50 | 16°12 | 5°52 | 20°47 | 21°25 | 3°43 | 18°54 | 1°17 | 19°55 | 18°27 | 15°17 | n.a. | M12 |
| T 13 | 13 13 36 | 19°53'52 | 13°30 | 24°34 | 17°26 | 6°33 | 20°53 | 21°30 | 3°46 | 18°56 | 1°18 | 19°46 | 18°24 | 15°23 | n.a. | T 13 |
| W14 | 13 17 32 | 20°51'38 | 25°30 | 25°21 | 18°40 | 7°14 | 20°58 | 21°35 | 3°49 | 18°57 | 1°19 | 19°35 | 18°20 | 15°30 | n.a. | W14 |
| T 15 | 13 21 29 | 21°49'24 | 7♉26 | 26°12 | 19°53 | 7°54 | 21° 4 | 21°40 | 3°52 | 18°58 | 1°20 | 19°24 | 18°17 | 15°37 | n.a. | T 15 |
| F 16 | 13 25 25 | 22°47'08 | 19°18 | 27° 6 | 21° 7 | 8°35 | 21° 9 | 21°45 | 3°54 | 19° 0 | 1°21 | 19°12 | 18°14 | 15°44 | n.a. | F 16 |
| S 17 | 13 29 22 | 23°44'50 | 1♊10 | 28° 4 | 22°21 | 9°16 | 21°14 | 21°49 | 3°57 | 19° 1 | 1°23 | 19° 1 | 18°11 | 15°50 | n.a. | S 17 |
| S 18 | 13 33 18 | 24°42'31 | 13° 2 | 29° 4 | 23°35 | 9°57 | 21°19 | 21°54 | 4° 0 | 19° 3 | 1°24 | 18°52 | 18° 8 | 15°57 | n.a. | S 18 |
| M19 | 13 37 15 | 25°40'10 | 24°59 | 0♈ 8 | 24°48 | 10°38 | 21°23 | 21°59 | 4° 3 | 19° 4 | 1°25 | 18°46 | 18° 4 | 16° 4 | n.a. | M19 |
| T 20 | 13 41 11 | 26°37'47 | 7♋ 3 | 1°14 | 26° 2 | 11°18 | 21°28 | 22° 3 | 4° 6 | 19° 6 | 1°26 | 18°42 | 18° 1 | 16°11 | n.a. | T 20 |
| W21 | 13 45 8 | 27°35'23 | 19°19 | 2°24 | 27°16 | 11°59 | 21°32 | 22° 8 | 4° 9 | 19° 7 | 1°27 | 18°40 | 17°58 | 16°17 | n.a. | W21 |
| T 22 | 13 49 4 | 28°32'58 | 1♌52 | 3°36 | 28°30 | 12°40 | 21°36 | 22°12 | 4°12 | 19° 9 | 1°29 | 18°D40 | 17°55 | 16°24 | n.a. | T 22 |
| F 23 | 13 53 1 | 29°30'31 | 14°47 | 4°51 | 29°43 | 13°20 | 21°40 | 22°16 | 4°15 | 19°10 | 1°30 | 18°R40 | 17°52 | 16°31 | n.a. | F 23 |
| S 24 | 13 56 58 | 0♉28'02 | 28° 7 | 6° 8 | 0♉57 | 14° 1 | 21°44 | 22°20 | 4°18 | 19°12 | 1°31 | 18°40 | 17°49 | 16°37 | n.a. | S 24 |
| S 25 | 14 0 54 | 1°25'31 | 11♍56 | 7°28 | 2°11 | 14°41 | 21°48 | 22°25 | 4°22 | 19°13 | 1°32 | 18°38 | 17°45 | 16°44 | n.a. | S 25 |
| M26 | 14 4 51 | 2°23'00 | 26°14 | 8°51 | 3°25 | 15°22 | 21°51 | 22°29 | 4°25 | 19°15 | 1°34 | 18°34 | 17°42 | 16°51 | n.a. | M26 |
| T 27 | 14 8 47 | 3°20'26 | 10♎59 | 10°16 | 4°38 | 16° 2 | 21°54 | 22°33 | 4°28 | 19°17 | 1°35 | 18°27 | 17°39 | 16°58 | n.a. | T 27 |
| W28 | 14 12 44 | 4°17'52 | 26° 5 | 11°44 | 5°52 | 16°43 | 21°58 | 22°37 | 4°31 | 19°18 | 1°36 | 18°18 | 17°36 | 17° 4 | n.a. | W28 |
| T 29 | 14 16 40 | 5°15'16 | 11♏22 | 13°14 | 7° 6 | 17°23 | 22° 1 | 22°40 | 4°34 | 19°20 | 1°38 | 18° 8 | 17°33 | 17°11 | n.a. | T 29 |
| F 30 | 14 20 37 | 6♉12'40 | 26♏40 | 14♈47 | 8♉19 | 18♉ 3 | 22♑ 3 | 22♒44 | 4♊38 | 19♊22 | 1♊39 | 17♌57 | 17♌30 | 17♉18 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3n20 | 7s58 | 4n53 | 4s34 | 0s47 | 0s 6 | 1s16 | 11n 8 | 0n 9 | 22s42 | 0s27 | 16s19 | 1s33 | 21n 4 | 0n 2 | 22n17 | 0s56 | 14n38 | 6s 6 | 14n50 | 15n17 | 11n20 | | n.a. |
| F 2 | 3 43 | 12 24 | 5 7 | 4 49 | 1 1 | 0n25 | 1 15 | 11 24 | 0 10 | 22 41 | 0 27 | 16 17 | 1 33 | 21 4 | 0 2 | 22 18 | 0 56 | 14 38 | 6 6 | 14 53 | 15 18 | 11 22 | | n.a. |
| S 3 | 4 6 | 16 0 | 5 0 | 5 1 | 1 15 | 0 56 | 1 14 | 11 39 | 0 11 | 22 40 | 0 27 | 16 15 | 1 34 | 21 5 | 0 2 | 22 18 | 0 56 | 14 39 | 6 5 | 14 55 | 15 19 | 11 24 | | n.a. |
| S 4 | 4 29 | 18 31 | 4 34 | 5 11 | 1 28 | 1 26 | 1 13 | 11 54 | 0 11 | 22 40 | 0 28 | 16 14 | 1 34 | 21 5 | 0 2 | 22 18 | 0 56 | 14 39 | 6 5 | 14 56 | 15 20 | 11 26 | | n.a. |
| M 5 | 4 52 | 19 50 | 3 52 | 5 18 | 1 40 | 1 57 | 1 11 | 12 9 | 0 12 | 22 39 | 0 28 | 16 12 | 1 34 | 21 6 | 0 2 | 22 18 | 0 56 | 14 40 | 6 5 | 14 57 | 15 21 | 11 28 | | n.a. |
| T 6 | 5 15 | 19 55 | 2 57 | 5 22 | 1 51 | 2 28 | 1 10 | 12 24 | 0 12 | 22 38 | 0 28 | 16 10 | 1 34 | 21 6 | 0 2 | 22 18 | 0 55 | 14 40 | 6 5 | 14 57 | 15 22 | 11 30 | | n.a. |
| W 7 | 5 37 | 18 51 | 1 54 | 5 24 | 2 1 | 2 58 | 1 9 | 12 39 | 0 13 | 22 37 | 0 28 | 16 9 | 1 34 | 21 7 | 0 2 | 22 18 | 0 55 | 14 40 | 6 5 | 14 57 | 15 23 | 11 31 | | n.a. |
| T 8 | 6 0 | 16 47 | 0 46 | 5 23 | 2 11 | 3 29 | 1 7 | 12 54 | 0 14 | 22 36 | 0 28 | 16 7 | 1 35 | 21 7 | 0 2 | 22 18 | 0 55 | 14 41 | 6 5 | 14 57 | 15 24 | 11 33 | | n.a. |
| F 9 | 6 23 | 13 56 | 0s22 | 5 20 | 2 20 | 3 59 | 1 6 | 13 9 | 0 14 | 22 36 | 0 29 | 16 6 | 1 35 | 21 8 | 0 2 | 22 18 | 0 55 | 14 41 | 6 4 | 14 56 | 15 25 | 11 35 | | n.a. |
| S 10 | 6 45 | 10 28 | 1 28 | 5 14 | 2 28 | 4 30 | 1 4 | 13 23 | 0 15 | 22 35 | 0 29 | 16 4 | 1 35 | 21 8 | 0 2 | 22 19 | 0 55 | 14 41 | 6 4 | 14 57 | 15 26 | 11 37 | | n.a. |
| S 11 | 7 7 | 6 36 | 2 29 | 5 6 | 2 35 | 5 0 | 1 2 | 13 38 | 0 15 | 22 34 | 0 29 | 16 3 | 1 35 | 21 9 | 0 2 | 22 19 | 0 55 | 14 42 | 6 4 | 14 58 | 15 27 | 11 39 | | n.a. |
| M12 | 7 30 | 2 31 | 3 22 | 4 56 | 2 41 | 5 30 | 1 1 | 13 52 | 0 16 | 22 33 | 0 29 | 16 1 | 1 35 | 21 9 | 0 2 | 22 19 | 0 55 | 14 42 | 6 4 | 15 0 | 15 28 | 11 41 | | n.a. |
| T 13 | 7 52 | 1n37 | 4 5 | 4 44 | 2 47 | 6 0 | 0 59 | 14 6 | 0 17 | 22 33 | 0 29 | 16 0 | 1 36 | 21 10 | 0 2 | 22 19 | 0 55 | 14 42 | 6 4 | 15 3 | 15 29 | 11 43 | | n.a. |
| W14 | 8 14 | 5 40 | 4 37 | 4 29 | 2 52 | 6 30 | 0 57 | 14 21 | 0 17 | 22 32 | 0 30 | 15 58 | 1 36 | 21 10 | 0 2 | 22 19 | 0 55 | 14 43 | 6 4 | 15 6 | 15 30 | 11 45 | | n.a. |
| T 15 | 8 36 | 9 28 | 4 56 | 4 12 | 2 56 | 7 0 | 0 55 | 14 35 | 0 18 | 22 31 | 0 30 | 15 57 | 1 36 | 21 11 | 0 2 | 22 19 | 0 55 | 14 43 | 6 4 | 15 10 | 15 31 | 11 47 | | n.a. |
| F 16 | 8 57 | 12 53 | 5 3 | 3 54 | 2 59 | 7 30 | 0 54 | 14 48 | 0 18 | 22 31 | 0 30 | 15 56 | 1 36 | 21 11 | 0 2 | 22 19 | 0 55 | 14 43 | 6 4 | 15 14 | 15 32 | 11 48 | | n.a. |
| S 17 | 9 19 | 15 47 | 4 56 | 3 33 | 3 1 | 8 0 | 0 52 | 15 2 | 0 19 | 22 30 | 0 30 | 15 54 | 1 36 | 21 12 | 0 2 | 22 20 | 0 55 | 14 44 | 6 3 | 15 17 | 15 33 | 11 50 | | n.a. |
| S 18 | 9 40 | 18 2 | 4 37 | 3 10 | 3 3 | 8 29 | 0 50 | 15 16 | 0 19 | 22 30 | 0 31 | 15 53 | 1 37 | 21 13 | 0 2 | 22 20 | 0 55 | 14 44 | 6 3 | 15 20 | 15 34 | 11 52 | | n.a. |
| M19 | 10 2 | 19 31 | 4 5 | 2 45 | 3 4 | 8 58 | 0 48 | 15 29 | 0 20 | 22 29 | 0 31 | 15 52 | 1 37 | 21 13 | 0 2 | 22 20 | 0 55 | 14 45 | 6 3 | 15 22 | 15 35 | 11 54 | | n.a. |
| T 20 | 10 23 | 20 9 | 3 22 | 2 19 | 3 5 | 9 27 | 0 46 | 15 43 | 0 21 | 22 29 | 0 31 | 15 50 | 1 37 | 21 14 | 0 2 | 22 20 | 0 55 | 14 45 | 6 3 | 15 23 | 15 36 | 11 56 | | n.a. |
| W21 | 10 44 | 19 50 | 2 29 | 1 51 | 3 4 | 9 56 | 0 44 | 15 56 | 0 21 | 22 28 | 0 31 | 15 49 | 1 37 | 21 14 | 0 2 | 22 20 | 0 55 | 14 45 | 6 3 | 15 24 | 15 37 | 11 58 | | n.a. |
| T 22 | 11 5 | 18 32 | 1 28 | 1 21 | 3 3 | 10 24 | 0 42 | 16 9 | 0 22 | 22 28 | 0 31 | 15 48 | 1 37 | 21 15 | 0 2 | 22 20 | 0 55 | 14 46 | 6 3 | 15 24 | 15 38 | 12 0 | | n.a. |
| F 23 | 11 25 | 16 15 | 0 21 | 0 50 | 3 1 | 10 53 | 0 40 | 16 22 | 0 22 | 22 27 | 0 32 | 15 46 | 1 38 | 21 15 | 0 2 | 22 21 | 0 55 | 14 46 | 6 3 | 15 24 | 15 39 | 12 2 | | n.a. |
| S 24 | 11 46 | 13 2 | 0n50 | 0 16 | 2 59 | 11 21 | 0 38 | 16 35 | 0 23 | 22 27 | 0 32 | 15 45 | 1 38 | 21 16 | 0 2 | 22 21 | 0 55 | 14 46 | 6 2 | 15 24 | 15 40 | 12 3 | | n.a. |
| S 25 | 12 6 | 9 0 | 2 0 | 0n18 | 2 56 | 11 48 | 0 36 | 16 47 | 0 23 | 22 27 | 0 32 | 15 44 | 1 38 | 21 17 | 0 2 | 22 21 | 0 55 | 14 47 | 6 2 | 15 24 | 15 41 | 12 5 | | n.a. |
| M26 | 12 26 | 4 20 | 3 5 | 0 54 | 2 53 | 12 16 | 0 33 | 17 0 | 0 24 | 22 26 | 0 32 | 15 43 | 1 38 | 21 17 | 0 2 | 22 21 | 0 55 | 14 47 | 6 2 | 15 26 | 15 42 | 12 7 | | n.a. |
| T 27 | 12 46 | 0s43 | 4 0 | 1 32 | 2 48 | 12 43 | 0 31 | 17 12 | 0 24 | 22 26 | 0 33 | 15 42 | 1 38 | 21 18 | 0 2 | 22 21 | 0 55 | 14 47 | 6 2 | 15 28 | 15 43 | 12 9 | | n.a. |
| W28 | 13 6 | 5 51 | 4 39 | 2 11 | 2 44 | 13 10 | 0 29 | 17 25 | 0 25 | 22 26 | 0 33 | 15 41 | 1 39 | 21 18 | 0 2 | 22 21 | 0 55 | 14 48 | 6 2 | 15 31 | 15 44 | 12 11 | | n.a. |
| T 29 | 13 25 | 10 40 | 4 59 | 2 51 | 2 38 | 13 37 | 0 27 | 17 37 | 0 25 | 22 25 | 0 33 | 15 40 | 1 39 | 21 19 | 0 2 | 22 22 | 0 55 | 14 48 | 6 2 | 15 34 | 15 45 | 12 13 | | n.a. |
| F 30 | 13n44 | 14s48 | 4n58 | 3n33 | 2s32 | 14n 3 | 0s25 | 17n49 | 0n26 | 22s25 | 0s33 | 15s39 | 1s39 | 21n20 | 0n 2 | 22n22 | 0s55 | 14n49 | 6s 2 | 15n37 | 15n46 | 12n15 | | n.a. |

Julian Day Number = 1696676.5, Delta T = 03h07m41s
Ecliptic obliquity = 23°42'05, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°59'58, Lahiri = - 4°52'58 Julian Calendar 1 Apr. 68 BCE == Greg. Calendar 30 March 068 BCE

The year -67 astronomical counting style corresponds to year 068 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 68 BCE
# geocentric

## MAY 68 BCE (-67) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 14 24 33 | 7♉10'02 | 11♐46 | 16♈22 | 9♉33 | 18♉43 | 22♊ 6 | 22♒48 | 4♊41 | 19♊23 | 1♊40 | 17°R48 | 17♌26 | 17♉24 | n.a. | S 1 |
| S 2 | 14 28 30 | 8° 7'24 | 26°33 | 18° 0 | 10°47 | 19°24 | 22° 8 | 22°51 | 4°44 | 19°25 | 1°42 | 17♌41 | 17°23 | 17°31 | n.a. | S 2 |
| M 3 | 14 32 27 | 9° 4'45 | 10♊54 | 19°40 | 12° 0 | 20° 4 | 22°10 | 22°55 | 4°47 | 19°27 | 1°43 | 17°37 | 17°20 | 17°38 | n.a. | M 3 |
| T 4 | 14 36 23 | 10° 2'05 | 24°47 | 21°22 | 13°14 | 20°44 | 22°12 | 22°58 | 4°51 | 19°29 | 1°44 | 17°35 | 17°17 | 17°45 | n.a. | T 4 |
| W 5 | 14 40 20 | 10°59'24 | 8♒13 | 23° 7 | 14°28 | 21°24 | 22°14 | 23° 1 | 4°54 | 19°31 | 1°46 | 17°34 | 17°14 | 17°51 | n.a. | W 5 |
| T 6 | 14 44 16 | 11°56'43 | 21°14 | 24°55 | 15°41 | 22° 4 | 22°16 | 23° 5 | 4°57 | 19°32 | 1°47 | 17°34 | 17°10 | 17°58 | n.a. | T 6 |
| F 7 | 14 48 13 | 12°54'01 | 3♓55 | 26°44 | 16°55 | 22°44 | 22°17 | 23° 8 | 5° 1 | 19°34 | 1°48 | 17°33 | 17° 7 | 18° 5 | n.a. | F 7 |
| S 8 | 14 52 9 | 13°51'19 | 16°19 | 28°36 | 18° 9 | 23°24 | 22°19 | 23°11 | 5° 4 | 19°36 | 1°50 | 17°31 | 17° 4 | 18°12 | n.a. | S 8 |
| S 9 | 14 56 6 | 14°48'36 | 28°32 | 0♉31 | 19°22 | 24° 4 | 22°20 | 23°14 | 5° 8 | 19°38 | 1°51 | 17°26 | 17° 1 | 18°18 | n.a. | S 9 |
| M10 | 15 0 2 | 15°45'52 | 10♈35 | 2°27 | 20°36 | 24°44 | 22°20 | 23°17 | 5°11 | 19°40 | 1°53 | 17°18 | 16°58 | 18°25 | n.a. | M10 |
| T 11 | 15 3 59 | 16°43'08 | 22°33 | 4°26 | 21°50 | 25°24 | 22°21 | 23°19 | 5°14 | 19°42 | 1°54 | 17° 8 | 16°55 | 18°32 | n.a. | T 11 |
| W12 | 15 7 56 | 17°40'23 | 4♉27 | 6°27 | 23° 3 | 26° 4 | 22°22 | 23°22 | 5°18 | 19°44 | 1°55 | 16°55 | 16°51 | 18°38 | n.a. | W12 |
| T 13 | 15 11 52 | 18°37'38 | 16°19 | 8°30 | 24°17 | 26°44 | 22°22 | 23°25 | 5°21 | 19°46 | 1°57 | 16°42 | 16°48 | 18°45 | n.a. | T 13 |
| F 14 | 15 15 49 | 19°34'52 | 28°11 | 10°34 | 25°31 | 27°24 | 22°R22 | 23°27 | 5°25 | 19°48 | 1°58 | 16°28 | 16°45 | 18°52 | n.a. | F 14 |
| S 15 | 15 19 45 | 20°32'05 | 10♊ 4 | 12°41 | 26°44 | 28° 4 | 22°22 | 23°29 | 5°28 | 19°50 | 2° 0 | 16°15 | 16°42 | 18°59 | n.a. | S 15 |
| S 16 | 15 23 42 | 21°29'18 | 22° 0 | 14°48 | 27°58 | 28°44 | 22°22 | 23°32 | 5°32 | 19°52 | 2° 1 | 16° 4 | 16°39 | 19° 5 | n.a. | S 16 |
| M17 | 15 27 38 | 22°26'30 | 4♋ 0 | 16°58 | 29°12 | 29°23 | 22°21 | 23°34 | 5°35 | 19°54 | 2° 2 | 15°55 | 16°36 | 19°12 | n.a. | M17 |
| T 18 | 15 31 35 | 23°23'41 | 16° 8 | 19° 8 | 0♊25 | 0♊ 3 | 22°20 | 23°36 | 5°39 | 19°56 | 2° 4 | 15°50 | 16°32 | 19°19 | n.a. | T 18 |
| W19 | 15 35 32 | 24°20'52 | 28°27 | 21°18 | 1°39 | 0°43 | 22°20 | 23°38 | 5°42 | 19°58 | 2° 5 | 15°47 | 16°29 | 19°26 | n.a. | W19 |
| T 20 | 15 39 28 | 25°18'01 | 11♌ 0 | 23°30 | 2°53 | 1°23 | 22°19 | 23°40 | 5°46 | 20° 0 | 2° 7 | 15°D46 | 16°26 | 19°32 | n.a. | T 20 |
| F 21 | 15 43 25 | 26°15'11 | 23°52 | 25°41 | 4° 6 | 2° 2 | 22°17 | 23°42 | 5°50 | 20° 2 | 2° 8 | 15°R46 | 16°23 | 19°39 | n.a. | F 21 |
| S 22 | 15 47 21 | 27°12'19 | 7♍ 7 | 27°52 | 5°20 | 2°42 | 22°16 | 23°44 | 5°53 | 20° 4 | 2°10 | 15°46 | 16°20 | 19°46 | n.a. | S 22 |
| S 23 | 15 51 18 | 28° 9'27 | 20°49 | 0♊ 4 | 6°34 | 3°21 | 22°14 | 23°45 | 5°57 | 20° 6 | 2°11 | 15°44 | 16°16 | 19°52 | n.a. | S 23 |
| M24 | 15 55 14 | 29° 6'34 | 4♎58 | 2°14 | 7°47 | 4° 1 | 22°12 | 23°47 | 6° 0 | 20° 8 | 2°13 | 15°41 | 16°13 | 19°59 | n.a. | M24 |
| T 25 | 15 59 11 | 0♊ 3'40 | 19°35 | 4°24 | 9° 1 | 4°40 | 22°10 | 23°48 | 6° 4 | 20°10 | 2°14 | 15°34 | 16°10 | 20° 6 | n.a. | T 25 |
| W26 | 16 3 7 | 1° 0'46 | 4♏34 | 6°32 | 10°14 | 5°20 | 22° 8 | 23°49 | 6° 7 | 20°12 | 2°15 | 15°26 | 16° 7 | 20°13 | n.a. | W26 |
| T 27 | 16 7 4 | 1°57'52 | 19°48 | 8°40 | 11°28 | 5°59 | 22° 6 | 23°51 | 6°11 | 20°15 | 2°17 | 15°16 | 16° 4 | 20°19 | n.a. | T 27 |
| F 28 | 16 11 1 | 2°54'58 | 5♐ 7 | 10°45 | 12°42 | 6°39 | 22° 3 | 23°52 | 6°15 | 20°17 | 2°18 | 15° 6 | 16° 1 | 20°26 | n.a. | F 28 |
| S 29 | 16 14 57 | 3°52'03 | 20°18 | 12°50 | 13°55 | 7°18 | 22° 1 | 23°53 | 6°18 | 20°19 | 2°20 | 14°57 | 15°57 | 20°33 | n.a. | S 29 |
| S 30 | 16 18 54 | 4°49'08 | 5♊12 | 14°53 | 15° 9 | 7°57 | 21°58 | 23°54 | 6°22 | 20°21 | 2°21 | 14°50 | 15°54 | 20°40 | n.a. | S 30 |
| M31 | 16 22 50 | 5♊46'14 | 19♊42 | 16♊53 | 16♊23 | 8♊37 | 21♊55 | 23♒55 | 6♊25 | 20♊23 | 2♊23 | 14♌46 | 15♌51 | 20♉46 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 14n 3 | 17s54 | 4n35 | 4n16 | 2s26 | 14n29 | 0s22 | 18n 0 | 0n27 | 22s25 | 0s34 | 15s38 | 1s39 | 21n20 | 0n 2 | 22n22 | 0s55 | 14n49 | 6s 2 | 15n40 | 15n47 | 12n17 | | n.a. |
| S 2 | 14 22 | 19 44 | 3 55 | 5 0 | 2 19 | 14 54 | 0 20 | 18 12 | 0 27 | 22 25 | 0 34 | 15 37 | 1 40 | 21 21 | 0 2 | 22 22 | 0 55 | 14 49 | 6 2 | 15 42 | 15 48 | 12 18 | | n.a. |
| M 3 | 14 41 | 20 15 | 3 1 | 5 45 | 2 11 | 15 20 | 0 18 | 18 24 | 0 28 | 22 25 | 0 34 | 15 36 | 1 40 | 21 21 | 0 2 | 22 22 | 0 55 | 14 50 | 6 1 | 15 43 | 15 49 | 12 20 | | n.a. |
| T 4 | 14 59 | 19 29 | 1 57 | 6 31 | 2 3 | 15 44 | 0 15 | 18 35 | 0 28 | 22 25 | 0 34 | 15 35 | 1 40 | 21 22 | 0 2 | 22 22 | 0 54 | 14 50 | 6 1 | 15 44 | 15 50 | 12 22 | | n.a. |
| W 5 | 15 17 | 17 37 | 0 49 | 7 18 | 1 55 | 16 9 | 0 13 | 18 46 | 0 29 | 22 25 | 0 35 | 15 34 | 1 40 | 21 23 | 0 2 | 22 23 | 0 54 | 14 50 | 6 1 | 15 44 | 15 50 | 12 24 | | n.a. |
| T 6 | 15 35 | 14 53 | 0s19 | 8 6 | 1 46 | 16 33 | 0 11 | 18 57 | 0 29 | 22 25 | 0 35 | 15 33 | 1 40 | 21 23 | 0 2 | 22 23 | 0 54 | 14 51 | 6 1 | 15 44 | 15 51 | 12 26 | | n.a. |
| F 7 | 15 53 | 11 30 | 1 25 | 8 55 | 1 37 | 16 56 | 0 8 | 19 8 | 0 30 | 22 25 | 0 35 | 15 32 | 1 41 | 21 24 | 0 2 | 22 23 | 0 54 | 14 51 | 6 1 | 15 44 | 15 52 | 12 28 | | n.a. |
| S 8 | 16 10 | 7 41 | 2 26 | 9 44 | 1 27 | 17 20 | 0 6 | 19 19 | 0 30 | 22 25 | 0 35 | 15 32 | 1 41 | 21 25 | 0 2 | 22 23 | 0 54 | 14 51 | 6 1 | 15 45 | 15 53 | 12 30 | | n.a. |
| S 9 | 16 27 | 3 37 | 3 18 | 10 34 | 1 17 | 17 42 | 0 4 | 19 29 | 0 31 | 22 25 | 0 35 | 15 31 | 1 41 | 21 25 | 0 2 | 22 23 | 0 54 | 14 52 | 6 1 | 15 47 | 15 54 | 12 31 | | n.a. |
| M10 | 16 44 | 0n33 | 4 1 | 11 25 | 1 7 | 18 5 | 0 1 | 19 40 | 0 31 | 22 25 | 0 36 | 15 30 | 1 41 | 21 26 | 0 2 | 22 23 | 0 54 | 14 52 | 6 1 | 15 49 | 15 55 | 12 33 | | n.a. |
| T 11 | 17 1 | 4 39 | 4 33 | 12 15 | 0 57 | 18 27 | 0n 1 | 19 50 | 0 32 | 22 25 | 0 36 | 15 29 | 1 42 | 21 26 | 0 2 | 22 24 | 0 54 | 14 53 | 6 1 | 15 52 | 15 56 | 12 35 | | n.a. |
| W12 | 17 17 | 8 33 | 4 53 | 13 6 | 0 46 | 18 48 | 0 4 | 20 0 | 0 32 | 22 25 | 0 36 | 15 29 | 1 42 | 21 27 | 0 2 | 22 24 | 0 54 | 14 53 | 6 1 | 15 56 | 15 57 | 12 37 | | n.a. |
| T 13 | 17 33 | 12 7 | 4 59 | 13 56 | 0 35 | 19 9 | 0 6 | 20 10 | 0 33 | 22 25 | 0 36 | 15 28 | 1 42 | 21 28 | 0 2 | 22 24 | 0 54 | 14 53 | 6 1 | 16 0 | 15 58 | 12 39 | | n.a. |
| F 14 | 17 49 | 15 12 | 4 53 | 14 46 | 0 24 | 19 29 | 0 8 | 20 20 | 0 33 | 22 26 | 0 37 | 15 27 | 1 42 | 21 28 | 0 2 | 22 24 | 0 54 | 14 54 | 6 0 | 16 5 | 15 59 | 12 41 | | n.a. |
| S 15 | 18 5 | 17 41 | 4 35 | 15 36 | 0 13 | 19 49 | 0 11 | 20 30 | 0 34 | 22 26 | 0 37 | 15 27 | 1 43 | 21 29 | 0 2 | 22 24 | 0 54 | 14 54 | 6 0 | 16 8 | 16 0 | 12 43 | | n.a. |
| S 16 | 18 20 | 19 24 | 4 4 | 16 25 | 0 2 | 20 8 | 0 13 | 20 39 | 0 34 | 22 26 | 0 37 | 15 26 | 1 43 | 21 30 | 0 2 | 22 25 | 0 54 | 14 54 | 6 0 | 16 12 | 16 1 | 12 44 | | n.a. |
| M17 | 18 35 | 20 17 | 3 21 | 17 13 | 0n 8 | 20 27 | 0 16 | 20 48 | 0 35 | 22 26 | 0 37 | 15 26 | 1 43 | 21 30 | 0 2 | 22 25 | 0 54 | 14 55 | 6 0 | 16 14 | 16 2 | 12 46 | | n.a. |
| T 18 | 18 50 | 20 14 | 2 30 | 18 0 | 0 19 | 20 45 | 0 18 | 20 57 | 0 35 | 22 27 | 0 38 | 15 25 | 1 43 | 21 31 | 0 2 | 22 25 | 0 54 | 14 55 | 6 0 | 16 16 | 16 3 | 12 48 | | n.a. |
| W19 | 19 4 | 19 13 | 1 30 | 18 45 | 0 29 | 21 3 | 0 20 | 21 6 | 0 36 | 22 27 | 0 38 | 15 25 | 1 44 | 21 32 | 0 2 | 22 25 | 0 54 | 14 55 | 6 0 | 16 17 | 16 4 | 12 50 | | n.a. |
| T 20 | 19 18 | 17 15 | 0 25 | 19 29 | 0 39 | 21 20 | 0 23 | 21 15 | 0 36 | 22 28 | 0 38 | 15 24 | 1 44 | 21 32 | 0 2 | 22 25 | 0 54 | 14 56 | 6 0 | 16 17 | 16 5 | 12 52 | | n.a. |
| F 21 | 19 32 | 14 23 | 0n43 | 20 11 | 0 49 | 21 36 | 0 25 | 21 24 | 0 37 | 22 28 | 0 38 | 15 24 | 1 44 | 21 33 | 0 2 | 22 25 | 0 54 | 14 56 | 6 0 | 16 17 | 16 6 | 12 54 | | n.a. |
| S 22 | 19 45 | 10 42 | 1 51 | 20 50 | 0 58 | 21 52 | 0 27 | 21 32 | 0 37 | 22 28 | 0 39 | 15 24 | 1 44 | 21 33 | 0 2 | 22 26 | 0 54 | 14 56 | 6 0 | 16 17 | 16 7 | 12 55 | | n.a. |
| S 23 | 19 58 | 6 21 | 2 54 | 21 28 | 1 6 | 22 8 | 0 30 | 21 40 | 0 38 | 22 29 | 0 39 | 15 23 | 1 44 | 21 34 | 0 2 | 22 26 | 0 54 | 14 57 | 6 0 | 16 18 | 16 8 | 12 57 | | n.a. |
| M24 | 20 11 | 1 30 | 3 49 | 22 3 | 1 14 | 22 22 | 0 32 | 21 48 | 0 38 | 22 30 | 0 39 | 15 23 | 1 45 | 21 35 | 0 2 | 22 26 | 0 54 | 14 57 | 6 0 | 16 19 | 16 9 | 12 59 | | n.a. |
| T 25 | 20 23 | 3s34 | 4 31 | 22 35 | 1 22 | 22 36 | 0 34 | 21 56 | 0 38 | 22 30 | 0 39 | 15 23 | 1 45 | 21 35 | 0 2 | 22 26 | 0 54 | 14 57 | 6 0 | 16 21 | 16 10 | 13 1 | | n.a. |
| W26 | 20 35 | 8 32 | 4 56 | 23 5 | 1 28 | 22 50 | 0 36 | 22 4 | 0 39 | 22 31 | 0 40 | 15 23 | 1 45 | 21 36 | 0 2 | 22 26 | 0 54 | 14 58 | 6 0 | 16 23 | 16 11 | 13 3 | | n.a. |
| T 27 | 20 47 | 13 3 | 5 1 | 23 33 | 1 34 | 23 2 | 0 39 | 22 11 | 0 39 | 22 31 | 0 40 | 15 23 | 1 45 | 21 37 | 0 2 | 22 27 | 0 54 | 14 58 | 6 0 | 16 26 | 16 12 | 13 5 | | n.a. |
| F 28 | 20 58 | 16 44 | 4 44 | 23 57 | 1 40 | 23 14 | 0 41 | 22 19 | 0 40 | 22 32 | 0 40 | 15 22 | 1 46 | 21 37 | 0 2 | 22 27 | 0 54 | 14 58 | 6 0 | 16 29 | 16 13 | 13 6 | | n.a. |
| S 29 | 21 9 | 19 15 | 4 7 | 24 19 | 1 45 | 23 26 | 0 43 | 22 26 | 0 40 | 22 33 | 0 40 | 15 22 | 1 46 | 21 38 | 0 2 | 22 27 | 0 54 | 14 59 | 6 0 | 16 32 | 16 14 | 13 8 | | n.a. |
| S 30 | 21 20 | 20 23 | 3 13 | 24 38 | 1 49 | 23 37 | 0 45 | 22 33 | 0 41 | 22 33 | 0 41 | 15 22 | 1 46 | 21 39 | 0 2 | 22 27 | 0 54 | 14 59 | 5 59 | 16 34 | 16 15 | 13 10 | | n.a. |
| M31 | 21n30 | 20s 7 | 2n 9 | 24n54 | 1n52 | 23n47 | 0n47 | 22n39 | 0n41 | 22s34 | 0s41 | 15s22 | 1s46 | 21n39 | 0n 2 | 22n27 | 0s54 | 14n59 | 5s59 | 16n35 | 16n16 | 13n12 | | n.a. |

Julian Day Number = 1696706.5, Delta T = 03h07m40s
Ecliptic obliquity = 23°42'05, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°59'54, Lahiri = - 4°52'54 Julian Calendar 1 May 68 BCE == Greg. Calendar 29 Apr. 068 BCE

The year -67 astronomical counting style corresponds to year 068 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 68 BCE
# geocentric

## JUNE 68 BCE (-67) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 26 47 | 6♊43'19 | 3♒43 | 18♊53 | 17♊36 | 9♊16 | 21°R51 | 23♒55 | 6♊29 | 20♊25 | 2♊24 | 14°R44 | 15♌48 | 20♉53 | n.a. | T 1 |
| W 2 | 16 30 43 | 7°40'25 | 17°15 | 20°50 | 18°50 | 9°55 | 21♑48 | 23°56 | 6°33 | 20°28 | 2°26 | 14°D43 | 15°45 | 21° 0 | n.a. | W 2 |
| T 3 | 16 34 40 | 8°37'31 | 0♓21 | 22°45 | 20° 3 | 10°35 | 21°44 | 23°56 | 6°36 | 20°30 | 2°27 | 14♌44 | 15°41 | 21° 6 | n.a. | T 3 |
| F 4 | 16 38 36 | 9°34'38 | 13° 3 | 24°38 | 21°17 | 11°14 | 21°40 | 23°57 | 6°40 | 20°32 | 2°29 | 14°R44 | 15°38 | 21°13 | n.a. | F 4 |
| S 5 | 16 42 33 | 10°31'44 | 25°26 | 26°30 | 22°31 | 11°53 | 21°36 | 23°57 | 6°43 | 20°34 | 2°30 | 14°43 | 15°35 | 21°20 | n.a. | S 5 |
| S 6 | 16 46 30 | 11°28'51 | 7♈36 | 28°19 | 23°44 | 12°32 | 21°32 | 23°57 | 6°47 | 20°36 | 2°31 | 14°40 | 15°32 | 21°27 | n.a. | S 6 |
| M 7 | 16 50 26 | 12°25'59 | 19°36 | 0♋ 6 | 24°58 | 13°11 | 21°28 | 23°58 | 6°50 | 20°39 | 2°33 | 14°34 | 15°29 | 21°33 | n.a. | M 7 |
| T 8 | 16 54 23 | 13°23'06 | 1♉30 | 1°52 | 26°11 | 13°51 | 21°24 | 23°R58 | 6°54 | 20°41 | 2°34 | 14°26 | 15°26 | 21°40 | n.a. | T 8 |
| W 9 | 16 58 19 | 14°20'15 | 13°21 | 3°35 | 27°25 | 14°30 | 21°19 | 23°57 | 6°58 | 20°43 | 2°36 | 14°16 | 15°22 | 21°47 | n.a. | W 9 |
| T 10 | 17 2 16 | 15°17'23 | 25°13 | 5°16 | 28°39 | 15° 9 | 21°14 | 23°57 | 7° 1 | 20°45 | 2°37 | 14° 6 | 15°19 | 21°53 | n.a. | T 10 |
| F 11 | 17 6 12 | 16°14'32 | 7♊ 7 | 6°55 | 29°52 | 15°48 | 21° 9 | 23°57 | 7° 5 | 20°47 | 2°39 | 13°55 | 15°16 | 22° 0 | n.a. | F 11 |
| S 12 | 17 10 9 | 17°11'41 | 19° 4 | 8°32 | 1♋ 6 | 16°27 | 21° 4 | 23°57 | 7° 8 | 20°50 | 2°40 | 13°44 | 15°13 | 22° 7 | n.a. | S 12 |
| S 13 | 17 14 5 | 18° 8'51 | 1♋ 7 | 10° 8 | 2°19 | 17° 6 | 20°59 | 23°56 | 7°12 | 20°52 | 2°41 | 13°36 | 15°10 | 22°14 | n.a. | S 13 |
| M14 | 17 18 2 | 19° 6'01 | 13°16 | 11°41 | 3°33 | 17°45 | 20°53 | 23°56 | 7°15 | 20°54 | 2°43 | 13°30 | 15° 7 | 22°20 | n.a. | M14 |
| T 15 | 17 21 59 | 20° 3'12 | 25°34 | 13°12 | 4°47 | 18°24 | 20°48 | 23°55 | 7°19 | 20°56 | 2°44 | 13°26 | 15° 3 | 22°27 | n.a. | T 15 |
| W16 | 17 25 55 | 21° 0'22 | 8♌ 2 | 14°41 | 6° 0 | 19° 3 | 20°42 | 23°54 | 7°22 | 20°59 | 2°46 | 13°D24 | 15° 0 | 22°34 | n.a. | W16 |
| T 17 | 17 29 52 | 21°57'33 | 20°43 | 16° 8 | 7°14 | 19°42 | 20°36 | 23°53 | 7°26 | 21° 1 | 2°47 | 13°24 | 14°57 | 22°41 | n.a. | T 17 |
| F 18 | 17 33 48 | 22°54'44 | 3♍40 | 17°32 | 8°27 | 20°21 | 20°30 | 23°52 | 7°29 | 21° 3 | 2°48 | 13°25 | 14°54 | 22°47 | n.a. | F 18 |
| S 19 | 17 37 45 | 23°51'55 | 16°56 | 18°55 | 9°41 | 20°59 | 20°24 | 23°51 | 7°33 | 21° 5 | 2°50 | 13°26 | 14°51 | 22°54 | n.a. | S 19 |
| S 20 | 17 41 41 | 24°49'07 | 0♎33 | 20°15 | 10°55 | 21°38 | 20°18 | 23°50 | 7°36 | 21° 8 | 2°51 | 13°R26 | 14°47 | 23° 1 | n.a. | S 20 |
| M21 | 17 45 38 | 25°46'19 | 14°34 | 21°34 | 12° 8 | 22°17 | 20°11 | 23°49 | 7°40 | 21°10 | 2°52 | 13°25 | 14°44 | 23° 7 | n.a. | M21 |
| T 22 | 17 49 34 | 26°43'31 | 28°57 | 22°49 | 13°22 | 22°56 | 20° 5 | 23°47 | 7°43 | 21°12 | 2°54 | 13°21 | 14°41 | 23°14 | n.a. | T 22 |
| W23 | 17 53 31 | 27°40'44 | 13♏40 | 24° 3 | 14°35 | 23°35 | 19°58 | 23°46 | 7°47 | 21°14 | 2°55 | 13°16 | 14°38 | 23°21 | n.a. | W23 |
| T 24 | 17 57 28 | 28°37'57 | 28°37 | 25°14 | 15°49 | 24°13 | 19°52 | 23°44 | 7°50 | 21°16 | 2°56 | 13°10 | 14°35 | 23°28 | n.a. | T 24 |
| F 25 | 18 1 24 | 29°35'11 | 13♐41 | 26°23 | 17° 2 | 24°52 | 19°45 | 23°43 | 7°54 | 21°19 | 2°58 | 13° 4 | 14°32 | 23°34 | n.a. | F 25 |
| S 26 | 18 5 21 | 0♋32'25 | 28°41 | 27°29 | 18°16 | 25°31 | 19°38 | 23°41 | 7°57 | 21°21 | 2°59 | 12°58 | 14°28 | 23°41 | n.a. | S 26 |
| S 27 | 18 9 17 | 1°29'41 | 13♑29 | 28°33 | 19°30 | 26°10 | 19°31 | 23°39 | 8° 0 | 21°23 | 3° 0 | 12°53 | 14°25 | 23°48 | n.a. | S 27 |
| M28 | 18 13 14 | 2°26'57 | 27°57 | 29°33 | 20°43 | 26°48 | 19°24 | 23°37 | 8° 4 | 21°25 | 3° 2 | 12°51 | 14°22 | 23°55 | n.a. | M28 |
| T 29 | 18 17 10 | 3°24'14 | 12♒ 0 | 0♌31 | 21°57 | 27°27 | 19°17 | 23°35 | 8° 7 | 21°27 | 3° 3 | 12°D50 | 14°19 | 24° 1 | n.a. | T 29 |
| W30 | 18 21 7 | 4♋21'32 | 25♒37 | 1♌26 | 23♋10 | 28♊ 6 | 19♑ 9 | 23♒33 | 8♊10 | 21♊30 | 3♊ 4 | 12♌50 | 14♌16 | 24♉ 8 | n.a. | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21n40 | 18s35 | 0n58 | 25n 8 | 1n54 | 23n56 | 0n49 | 22n46 | 0n42 | 22s35 | 0s41 | 15s22 | 1s47 | 21n40 | 0n 2 | 22n27 | 0s54 | 15n 0 | 5s59 | 16n36 | 16n17 | 13n14 | | n.a. |
| W 2 | 21 50 | 16 3 | 0s13 | 25 19 | 1 56 | 24 5 | 0 51 | 22 53 | 0 42 | 22 36 | 0 41 | 15 22 | 1 47 | 21 40 | 0 2 | 22 28 | 0 54 | 15 0 | 5 59 | 16 36 | 16 17 | 13 15 | | n.a. |
| T 3 | 21 59 | 12 45 | 1 22 | 25 27 | 1 57 | 24 13 | 0 53 | 22 59 | 0 43 | 22 37 | 0 42 | 15 22 | 1 47 | 21 41 | 0 2 | 22 28 | 0 54 | 15 0 | 5 59 | 16 36 | 16 18 | 13 17 | | n.a. |
| F 4 | 22 8 | 8 57 | 2 25 | 25 33 | 1 58 | 24 20 | 0 55 | 23 5 | 0 43 | 22 37 | 0 42 | 15 22 | 1 47 | 21 42 | 0 2 | 22 28 | 0 54 | 15 1 | 5 59 | 16 36 | 16 19 | 13 19 | | n.a. |
| S 5 | 22 16 | 4 52 | 3 19 | 25 37 | 1 58 | 24 26 | 0 57 | 23 11 | 0 43 | 22 38 | 0 42 | 15 22 | 1 48 | 21 42 | 0 2 | 22 28 | 0 54 | 15 1 | 5 59 | 16 36 | 16 20 | 13 21 | | n.a. |
| S 6 | 22 24 | 0 40 | 4 3 | 25 38 | 1 57 | 24 32 | 0 59 | 23 16 | 0 44 | 22 39 | 0 42 | 15 23 | 1 48 | 21 43 | 0 2 | 22 28 | 0 54 | 15 1 | 5 59 | 16 37 | 16 21 | 13 23 | | n.a. |
| M 7 | 22 32 | 3n30 | 4 36 | 25 38 | 1 55 | 24 37 | 1 1 | 23 22 | 0 44 | 22 40 | 0 43 | 15 23 | 1 48 | 21 44 | 0 2 | 22 28 | 0 54 | 15 2 | 5 59 | 16 38 | 16 22 | 13 25 | | n.a. |
| T 8 | 22 39 | 7 30 | 4 56 | 25 35 | 1 53 | 24 41 | 1 3 | 23 27 | 0 45 | 22 41 | 0 43 | 15 23 | 1 48 | 21 44 | 0 2 | 22 29 | 0 54 | 15 2 | 5 59 | 16 41 | 16 23 | 13 26 | | n.a. |
| W 9 | 22 46 | 11 12 | 5 4 | 25 30 | 1 51 | 24 45 | 1 5 | 23 32 | 0 45 | 22 42 | 0 43 | 15 23 | 1 49 | 21 45 | 0 2 | 22 29 | 0 54 | 15 2 | 5 59 | 16 44 | 16 24 | 13 28 | | n.a. |
| T 10 | 22 53 | 14 27 | 4 58 | 25 23 | 1 47 | 24 48 | 1 6 | 23 37 | 0 46 | 22 43 | 0 43 | 15 24 | 1 49 | 21 45 | 0 2 | 22 29 | 0 54 | 15 2 | 5 59 | 16 47 | 16 25 | 13 30 | | n.a. |
| F 11 | 22 59 | 17 8 | 4 40 | 25 15 | 1 44 | 24 50 | 1 8 | 23 42 | 0 46 | 22 44 | 0 44 | 15 24 | 1 49 | 21 46 | 0 2 | 22 29 | 0 54 | 15 3 | 5 59 | 16 50 | 16 26 | 13 32 | | n.a. |
| S 12 | 23 5 | 19 7 | 4 9 | 25 4 | 1 39 | 24 51 | 1 10 | 23 46 | 0 46 | 22 45 | 0 44 | 15 24 | 1 49 | 21 47 | 0 2 | 22 29 | 0 54 | 15 3 | 5 59 | 16 53 | 16 27 | 13 34 | | n.a. |
| S 13 | 23 10 | 20 15 | 3 26 | 24 53 | 1 34 | 24 52 | 1 11 | 23 51 | 0 47 | 22 46 | 0 44 | 15 25 | 1 50 | 21 47 | 0 2 | 22 29 | 0 54 | 15 3 | 5 59 | 16 55 | 16 28 | 13 35 | | n.a. |
| M14 | 23 15 | 20 28 | 2 34 | 24 39 | 1 29 | 24 52 | 1 13 | 23 55 | 0 47 | 22 47 | 0 44 | 15 25 | 1 50 | 21 48 | 0 2 | 22 30 | 0 54 | 15 4 | 5 59 | 16 57 | 16 29 | 13 37 | | n.a. |
| T 15 | 23 19 | 19 43 | 1 34 | 24 25 | 1 23 | 24 51 | 1 14 | 23 59 | 0 48 | 22 48 | 0 44 | 15 26 | 1 50 | 21 48 | 0 2 | 22 30 | 0 54 | 15 4 | 5 59 | 16 58 | 16 30 | 13 39 | | n.a. |
| W16 | 23 24 | 18 0 | 0 29 | 24 9 | 1 16 | 24 49 | 1 16 | 24 3 | 0 48 | 22 49 | 0 45 | 15 26 | 1 50 | 21 49 | 0 2 | 22 30 | 0 54 | 15 4 | 5 59 | 16 59 | 16 31 | 13 41 | | n.a. |
| T 17 | 23 27 | 15 22 | 0n39 | 23 52 | 1 10 | 24 47 | 1 17 | 24 6 | 0 49 | 22 51 | 0 45 | 15 27 | 1 51 | 21 50 | 0 2 | 22 30 | 0 54 | 15 4 | 5 59 | 16 59 | 16 32 | 13 43 | | n.a. |
| F 18 | 23 31 | 11 56 | 1 47 | 23 34 | 1 2 | 24 44 | 1 18 | 24 10 | 0 49 | 22 52 | 0 45 | 15 27 | 1 51 | 21 50 | 0 2 | 22 30 | 0 54 | 15 5 | 5 59 | 16 59 | 16 33 | 13 44 | | n.a. |
| S 19 | 23 33 | 7 50 | 2 51 | 23 15 | 0 54 | 24 40 | 1 20 | 24 13 | 0 49 | 22 53 | 0 45 | 15 28 | 1 51 | 21 51 | 0 2 | 22 30 | 0 54 | 15 5 | 5 59 | 16 58 | 16 34 | 13 46 | | n.a. |
| S 20 | 23 36 | 3 14 | 3 46 | 22 55 | 0 46 | 24 36 | 1 21 | 24 16 | 0 50 | 22 54 | 0 46 | 15 28 | 1 51 | 21 51 | 0 2 | 22 31 | 0 54 | 15 5 | 5 59 | 16 58 | 16 34 | 13 48 | | n.a. |
| M21 | 23 38 | 1s39 | 4 30 | 22 34 | 0 38 | 24 30 | 1 22 | 24 18 | 0 50 | 22 55 | 0 46 | 15 29 | 1 52 | 21 52 | 0 2 | 22 31 | 0 54 | 15 5 | 5 59 | 16 59 | 16 35 | 13 50 | | n.a. |
| T 22 | 23 40 | 6 34 | 4 59 | 22 13 | 0 28 | 24 24 | 1 23 | 24 21 | 0 51 | 22 56 | 0 46 | 15 30 | 1 52 | 21 53 | 0 2 | 22 31 | 0 54 | 15 6 | 5 59 | 17 0 | 16 36 | 13 52 | | n.a. |
| W23 | 23 41 | 11 13 | 5 8 | 21 51 | 0 19 | 24 17 | 1 24 | 24 23 | 0 51 | 22 58 | 0 46 | 15 30 | 1 52 | 21 53 | 0 2 | 22 31 | 0 54 | 15 6 | 5 59 | 17 1 | 16 37 | 13 53 | | n.a. |
| T 24 | 23 42 | 15 14 | 4 57 | 21 28 | 0 9 | 24 10 | 1 25 | 24 26 | 0 51 | 22 59 | 0 46 | 15 31 | 1 52 | 21 54 | 0 2 | 22 31 | 0 54 | 15 6 | 5 59 | 17 3 | 16 38 | 13 55 | | n.a. |
| F 25 | 23 42 | 18 18 | 4 26 | 21 6 | 0s 1 | 24 2 | 1 26 | 24 28 | 0 52 | 23 0 | 0 47 | 15 32 | 1 53 | 21 54 | 0 2 | 22 31 | 0 54 | 15 6 | 5 59 | 17 5 | 16 39 | 13 57 | | n.a. |
| S 26 | 23 42 | 20 6 | 3 36 | 20 42 | 0 11 | 23 53 | 1 27 | 24 30 | 0 52 | 23 1 | 0 47 | 15 33 | 1 53 | 21 55 | 0 2 | 22 32 | 0 54 | 15 7 | 5 59 | 17 6 | 16 40 | 13 59 | | n.a. |
| S 27 | 23 42 | 20 29 | 2 32 | 20 19 | 0 22 | 23 43 | 1 28 | 24 31 | 0 52 | 23 2 | 0 47 | 15 34 | 1 53 | 21 55 | 0 2 | 22 32 | 0 54 | 15 7 | 5 59 | 17 8 | 16 41 | 14 0 | | n.a. |
| M28 | 23 41 | 19 30 | 1 20 | 19 56 | 0 33 | 23 33 | 1 29 | 24 33 | 0 53 | 23 4 | 0 47 | 15 34 | 1 53 | 21 56 | 0 2 | 22 32 | 0 54 | 15 7 | 5 59 | 17 8 | 16 42 | 14 2 | | n.a. |
| T 29 | 23 39 | 17 18 | 0 4 | 19 32 | 0 45 | 23 22 | 1 29 | 24 34 | 0 53 | 23 5 | 0 47 | 15 35 | 1 54 | 21 56 | 0 2 | 22 32 | 0 54 | 15 7 | 5 59 | 17 9 | 16 43 | 14 4 | | n.a. |
| W30 | 23n38 | 14s12 | 1s 9 | 19n 9 | 0s56 | 23n10 | 1n30 | 24n35 | 0n54 | 23s 6 | 0s48 | 15s36 | 1s54 | 21n57 | 0n 2 | 22n32 | 0s54 | 15n 8 | 5s59 | 17n 9 | 16n44 | 14n 6 | | n.a. |

Julian Day Number = 1696737.5, Delta T = 03h07m40s
Ecliptic obliquity = 23°42'05, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°59'50, Lahiri = - 4°52'49 Julian Calendar 1 June 68 BCE == Greg. Calendar 30 May 068 BCE

The year -67 astronomical counting style corresponds to year 068 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 68 BCE
# geocentric

## JULY 68 BCE (-67) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 25 4 | 5♋18'51 | 8♓47 | 2♌18 | 24♋24 | 28♊44 | 19°R 2 | 23°R31 | 8♊14 | 21♊32 | 3♊ 6 | 12♌52 | 14♌13 | 24♉15 | n.a. | T 1 |
| F 2 | 18 29 0 | 6°16'12 | 21°33 | 3° 6 | 25°37 | 29°23 | 18♑55 | 23♒28 | 8°17 | 21°34 | 3° 7 | 12°53 | 14° 9 | 24°21 | n.a. | F 2 |
| S 3 | 18 32 57 | 7°13'34 | 4♈ 0 | 3°52 | 26°51 | 0♋ 1 | 18°47 | 23°26 | 8°20 | 21°36 | 3° 8 | 12°R54 | 14° 6 | 24°28 | n.a. | S 3 |
| S 4 | 18 36 53 | 8°10'57 | 16°11 | 4°33 | 28° 4 | 0°40 | 18°40 | 23°24 | 8°23 | 21°38 | 3° 9 | 12°54 | 14° 3 | 24°35 | n.a. | S 4 |
| M 5 | 18 40 50 | 9° 8'21 | 28°11 | 5°11 | 29°18 | 1°18 | 18°32 | 23°21 | 8°27 | 21°40 | 3°10 | 12°52 | 14° 0 | 24°42 | n.a. | M 5 |
| T 6 | 18 44 46 | 10° 5'47 | 10♉ 5 | 5°45 | 0♌31 | 1°57 | 18°24 | 23°18 | 8°30 | 21°43 | 3°12 | 12°49 | 13°57 | 24°48 | n.a. | T 6 |
| W 7 | 18 48 43 | 11° 3'14 | 21°57 | 6°15 | 1°45 | 2°35 | 18°17 | 23°16 | 8°33 | 21°45 | 3°13 | 12°44 | 13°53 | 24°55 | n.a. | W 7 |
| T 8 | 18 52 39 | 12° 0'42 | 3♊50 | 6°40 | 2°58 | 3°14 | 18° 9 | 23°13 | 8°36 | 21°47 | 3°14 | 12°39 | 13°50 | 25° 2 | n.a. | T 8 |
| F 9 | 18 56 36 | 12°58'12 | 15°47 | 7° 1 | 4°12 | 3°52 | 18° 1 | 23°10 | 8°39 | 21°49 | 3°15 | 12°34 | 13°47 | 25° 8 | n.a. | F 9 |
| S 10 | 19 0 33 | 13°55'43 | 27°51 | 7°18 | 5°25 | 4°31 | 17°53 | 23° 7 | 8°42 | 21°51 | 3°16 | 12°29 | 13°44 | 25°15 | n.a. | S 10 |
| S 11 | 19 4 29 | 14°53'15 | 10♋ 4 | 7°29 | 6°39 | 5° 9 | 17°46 | 23° 4 | 8°46 | 21°53 | 3°18 | 12°25 | 13°41 | 25°22 | n.a. | S 11 |
| M12 | 19 8 26 | 15°50'49 | 22°26 | 7°35 | 7°52 | 5°48 | 17°38 | 23° 1 | 8°49 | 21°55 | 3°19 | 12°23 | 13°38 | 25°29 | n.a. | M12 |
| T 13 | 19 12 22 | 16°48'24 | 4♌59 | 7°R37 | 9° 6 | 6°26 | 17°30 | 22°58 | 8°52 | 21°57 | 3°20 | 12°21 | 13°34 | 25°35 | n.a. | T 13 |
| W14 | 19 16 19 | 17°46'00 | 17°44 | 7°32 | 10°19 | 7° 5 | 17°22 | 22°54 | 8°55 | 21°59 | 3°21 | 12°D21 | 13°31 | 25°42 | n.a. | W14 |
| T 15 | 19 20 15 | 18°43'37 | 0♍42 | 7°22 | 11°33 | 7°43 | 17°14 | 22°51 | 8°58 | 22° 1 | 3°22 | 12°22 | 13°28 | 25°49 | n.a. | T 15 |
| F 16 | 19 24 12 | 19°41'15 | 13°54 | 7° 7 | 12°46 | 8°21 | 17° 6 | 22°47 | 9° 0 | 22° 3 | 3°23 | 12°23 | 13°25 | 25°56 | n.a. | F 16 |
| S 17 | 19 28 8 | 20°38'55 | 27°20 | 6°46 | 13°59 | 9° 0 | 16°59 | 22°44 | 9° 3 | 22° 5 | 3°24 | 12°25 | 13°22 | 26° 2 | n.a. | S 17 |
| S 18 | 19 32 5 | 21°36'35 | 11♎ 2 | 6°20 | 15°13 | 9°38 | 16°51 | 22°40 | 9° 6 | 22° 7 | 3°25 | 12°26 | 13°19 | 26° 9 | n.a. | S 18 |
| M19 | 19 36 2 | 22°34'17 | 24°59 | 5°48 | 16°26 | 10°16 | 16°43 | 22°37 | 9° 9 | 22° 9 | 3°26 | 12°R26 | 13°15 | 26°16 | n.a. | M19 |
| T 20 | 19 39 58 | 23°32'00 | 9♏12 | 5°12 | 17°40 | 10°55 | 16°35 | 22°33 | 9°12 | 22°11 | 3°27 | 12°26 | 13°12 | 26°22 | n.a. | T 20 |
| W21 | 19 43 55 | 24°29'44 | 23°37 | 4°30 | 18°53 | 11°33 | 16°28 | 22°29 | 9°15 | 22°13 | 3°28 | 12°24 | 13° 9 | 26°29 | n.a. | W21 |
| T 22 | 19 47 51 | 25°27'29 | 8♐12 | 3°45 | 20° 6 | 12°11 | 16°20 | 22°26 | 9°17 | 22°15 | 3°29 | 12°22 | 13° 6 | 26°36 | n.a. | T 22 |
| F 23 | 19 51 48 | 26°25'16 | 22°51 | 2°56 | 21°20 | 12°50 | 16°12 | 22°22 | 9°20 | 22°17 | 3°30 | 12°20 | 13° 3 | 26°43 | n.a. | F 23 |
| S 24 | 19 55 44 | 27°23'04 | 7♑27 | 2° 5 | 22°33 | 13°28 | 16° 5 | 22°18 | 9°23 | 22°19 | 3°31 | 12°18 | 12°59 | 26°49 | n.a. | S 24 |
| S 25 | 19 59 41 | 28°20'54 | 21°55 | 1°12 | 23°46 | 14° 6 | 15°57 | 22°14 | 9°26 | 22°21 | 3°32 | 12°17 | 12°56 | 26°56 | n.a. | S 25 |
| M26 | 20 3 37 | 29°18'45 | 6♒ 9 | 0°18 | 25° 0 | 14°44 | 15°50 | 22°10 | 9°28 | 22°23 | 3°33 | 12°D16 | 12°53 | 27° 3 | n.a. | M26 |
| T 27 | 20 7 34 | 0♌16'38 | 20° 3 | 29♋24 | 26°13 | 15°22 | 15°42 | 22° 6 | 9°31 | 22°25 | 3°34 | 12°16 | 12°50 | 27° 9 | n.a. | T 27 |
| W28 | 20 11 31 | 1°14'32 | 3♓36 | 28°32 | 27°26 | 16° 1 | 15°35 | 22° 1 | 9°33 | 22°27 | 3°35 | 12°17 | 12°47 | 27°16 | n.a. | W28 |
| T 29 | 20 15 27 | 2°12'28 | 16°46 | 27°43 | 28°39 | 16°39 | 15°28 | 21°57 | 9°36 | 22°28 | 3°35 | 12°18 | 12°44 | 27°23 | n.a. | T 29 |
| F 30 | 20 19 24 | 3°10'26 | 29°35 | 26°57 | 29°53 | 17°17 | 15°21 | 21°53 | 9°38 | 22°30 | 3°36 | 12°19 | 12°40 | 27°30 | n.a. | F 30 |
| S 31 | 20 23 20 | 4♌ 8'26 | 12♈ 4 | 26♋16 | 1♍ 6 | 17♋55 | 15♑14 | 21♒49 | 9♊41 | 22♊32 | 3♊37 | 12♌20 | 12♌37 | 27♉36 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| T 1 | 23n36 | 10s28 | 2s16 | 18n46 | 1s 8 | 22n58 | 1n31 | 24n36 | 0n54 | 23s 7 | 0s48 | 15s37 | 1s54 | 21n58 | 0n 2 | 22n32 | 0s54 | 15n 8 | 5s59 | 17n 8 | 16n45 | 14n 8 | | | n.a. |
| F 2 | 23 33 | 6 22 | 3 15 | 18 23 | 1 20 | 22 44 | 1 31 | 24 36 | 0 54 | 23 9 | 0 48 | 15 38 | 1 54 | 21 58 | 0 2 | 22 32 | 0 54 | 15 8 | 5 59 | 17 8 | 16 46 | 14 9 | | | n.a. |
| S 3 | 23 30 | 2 6 | 4 3 | 18 0 | 1 32 | 22 31 | 1 31 | 24 37 | 0 55 | 23 10 | 0 48 | 15 39 | 1 54 | 21 59 | 0 2 | 22 33 | 0 53 | 15 8 | 5 59 | 17 8 | 16 47 | 14 11 | | | n.a. |
| S 4 | 23 27 | 2n 9 | 4 39 | 17 38 | 1 45 | 22 16 | 1 32 | 24 37 | 0 55 | 23 11 | 0 48 | 15 40 | 1 55 | 21 59 | 0 2 | 22 33 | 0 53 | 15 8 | 5 59 | 17 8 | 16 48 | 14 13 | | | n.a. |
| M 5 | 23 23 | 6 15 | 5 2 | 17 17 | 1 57 | 22 1 | 1 32 | 24 37 | 0 56 | 23 12 | 0 48 | 15 41 | 1 55 | 22 0 | 0 3 | 22 33 | 0 53 | 15 9 | 5 59 | 17 8 | 16 48 | 14 15 | | | n.a. |
| T 6 | 23 19 | 10 5 | 5 11 | 16 57 | 2 10 | 21 46 | 1 32 | 24 37 | 0 56 | 23 13 | 0 49 | 15 42 | 1 55 | 22 0 | 0 3 | 22 33 | 0 53 | 15 9 | 5 59 | 17 9 | 16 49 | 14 16 | | | n.a. |
| W 7 | 23 14 | 13 30 | 5 8 | 16 37 | 2 22 | 21 29 | 1 32 | 24 37 | 0 56 | 23 15 | 0 49 | 15 44 | 1 55 | 22 1 | 0 3 | 22 33 | 0 53 | 15 9 | 5 59 | 17 10 | 16 50 | 14 18 | | | n.a. |
| T 8 | 23 9 | 16 23 | 4 51 | 16 19 | 2 35 | 21 12 | 1 33 | 24 36 | 0 57 | 23 16 | 0 49 | 15 45 | 1 56 | 22 1 | 0 3 | 22 33 | 0 53 | 15 9 | 5 59 | 17 12 | 16 51 | 14 20 | | | n.a. |
| F 9 | 23 4 | 18 36 | 4 21 | 16 1 | 2 47 | 20 55 | 1 33 | 24 36 | 0 57 | 23 17 | 0 49 | 15 46 | 1 56 | 22 2 | 0 3 | 22 33 | 0 53 | 15 9 | 5 59 | 17 13 | 16 52 | 14 22 | | | n.a. |
| S 10 | 22 58 | 20 1 | 3 40 | 15 45 | 3 0 | 20 37 | 1 32 | 24 35 | 0 57 | 23 18 | 0 49 | 15 47 | 1 56 | 22 2 | 0 3 | 22 33 | 0 53 | 15 10 | 5 59 | 17 15 | 16 53 | 14 23 | | | n.a. |
| S 11 | 22 52 | 20 32 | 2 48 | 15 31 | 3 12 | 20 18 | 1 32 | 24 34 | 0 58 | 23 20 | 0 49 | 15 48 | 1 56 | 22 3 | 0 3 | 22 34 | 0 53 | 15 10 | 5 59 | 17 16 | 16 54 | 14 25 | | | n.a. |
| M12 | 22 45 | 20 3 | 1 47 | 15 18 | 3 23 | 19 59 | 1 32 | 24 32 | 0 58 | 23 21 | 0 50 | 15 49 | 1 56 | 22 3 | 0 3 | 22 34 | 0 53 | 15 10 | 6 0 | 17 16 | 16 55 | 14 27 | | | n.a. |
| T 13 | 22 38 | 18 34 | 0 40 | 15 7 | 3 35 | 19 39 | 1 32 | 24 31 | 0 58 | 23 22 | 0 50 | 15 51 | 1 57 | 22 4 | 0 3 | 22 34 | 0 53 | 15 10 | 6 0 | 17 17 | 16 56 | 14 29 | | | n.a. |
| W14 | 22 30 | 16 9 | 0n30 | 14 57 | 3 45 | 19 19 | 1 31 | 24 29 | 0 59 | 23 23 | 0 50 | 15 52 | 1 57 | 22 4 | 0 3 | 22 34 | 0 53 | 15 10 | 6 0 | 17 17 | 16 57 | 14 30 | | | n.a. |
| T 15 | 22 23 | 12 53 | 1 39 | 14 50 | 3 56 | 18 58 | 1 31 | 24 27 | 0 59 | 23 24 | 0 50 | 15 53 | 1 57 | 22 5 | 0 3 | 22 34 | 0 53 | 15 10 | 6 0 | 17 17 | 16 58 | 14 32 | | | n.a. |
| F 16 | 22 14 | 8 56 | 2 45 | 14 45 | 4 5 | 18 37 | 1 31 | 24 25 | 0 59 | 23 25 | 0 50 | 15 55 | 1 57 | 22 5 | 0 3 | 22 34 | 0 54 | 15 11 | 6 0 | 17 16 | 16 59 | 14 34 | | | n.a. |
| S 17 | 22 6 | 4 28 | 3 43 | 14 42 | 4 13 | 18 15 | 1 30 | 24 23 | 1 0 | 23 26 | 0 50 | 15 56 | 1 57 | 22 6 | 0 3 | 22 34 | 0 54 | 15 11 | 6 0 | 17 16 | 17 0 | 14 36 | | | n.a. |
| S 18 | 21 57 | 0s17 | 4 29 | 14 41 | 4 21 | 17 52 | 1 29 | 24 21 | 1 0 | 23 28 | 0 50 | 15 57 | 1 58 | 22 6 | 0 3 | 22 34 | 0 54 | 15 11 | 6 0 | 17 16 | 17 0 | 14 37 | | | n.a. |
| M19 | 21 47 | 5 7 | 5 1 | 14 43 | 4 27 | 17 29 | 1 29 | 24 18 | 1 0 | 23 29 | 0 51 | 15 59 | 1 58 | 22 7 | 0 3 | 22 35 | 0 54 | 15 11 | 6 0 | 17 15 | 17 1 | 14 39 | | | n.a. |
| T 20 | 21 38 | 9 45 | 5 15 | 14 47 | 4 32 | 17 6 | 1 28 | 24 15 | 1 1 | 23 30 | 0 51 | 16 0 | 1 58 | 22 7 | 0 3 | 22 35 | 0 54 | 15 11 | 6 0 | 17 16 | 17 2 | 14 41 | | | n.a. |
| W21 | 21 27 | 13 53 | 5 9 | 14 53 | 4 35 | 16 42 | 1 27 | 24 12 | 1 1 | 23 31 | 0 51 | 16 2 | 1 58 | 22 7 | 0 3 | 22 35 | 0 54 | 15 11 | 6 0 | 17 16 | 17 3 | 14 43 | | | n.a. |
| T 22 | 21 17 | 17 14 | 4 44 | 15 2 | 4 37 | 16 18 | 1 26 | 24 9 | 1 1 | 23 32 | 0 51 | 16 3 | 1 58 | 22 8 | 0 3 | 22 35 | 0 54 | 15 11 | 6 0 | 17 17 | 17 4 | 14 44 | | | n.a. |
| F 23 | 21 6 | 19 31 | 4 0 | 15 14 | 4 37 | 15 53 | 1 25 | 24 6 | 1 2 | 23 33 | 0 51 | 16 4 | 1 58 | 22 8 | 0 3 | 22 35 | 0 54 | 15 11 | 6 0 | 17 17 | 17 5 | 14 46 | | | n.a. |
| S 24 | 20 55 | 20 29 | 3 1 | 15 27 | 4 35 | 15 28 | 1 24 | 24 3 | 1 2 | 23 34 | 0 51 | 16 6 | 1 59 | 22 9 | 0 3 | 22 35 | 0 54 | 15 12 | 6 0 | 17 18 | 17 6 | 14 48 | | | n.a. |
| S 25 | 20 43 | 20 5 | 1 50 | 15 42 | 4 31 | 15 3 | 1 23 | 23 59 | 1 2 | 23 35 | 0 51 | 16 7 | 1 59 | 22 9 | 0 3 | 22 35 | 0 54 | 15 12 | 6 0 | 17 18 | 17 7 | 14 50 | | | n.a. |
| M26 | 20 31 | 18 24 | 0 34 | 15 59 | 4 25 | 14 37 | 1 22 | 23 55 | 1 3 | 23 36 | 0 51 | 16 9 | 1 59 | 22 9 | 0 3 | 22 35 | 0 54 | 15 12 | 6 0 | 17 18 | 17 8 | 14 51 | | | n.a. |
| T 27 | 20 19 | 15 38 | 0s43 | 16 18 | 4 18 | 14 10 | 1 20 | 23 51 | 1 3 | 23 37 | 0 51 | 16 10 | 1 59 | 22 10 | 0 3 | 22 35 | 0 54 | 15 12 | 6 0 | 17 18 | 17 9 | 14 53 | | | n.a. |
| W28 | 20 6 | 12 5 | 1 55 | 16 38 | 4 8 | 13 44 | 1 19 | 23 47 | 1 3 | 23 38 | 0 52 | 16 12 | 1 59 | 22 10 | 0 3 | 22 36 | 0 54 | 15 12 | 6 0 | 17 18 | 17 10 | 14 55 | | | n.a. |
| T 29 | 19 53 | 8 2 | 3 0 | 16 59 | 3 57 | 13 17 | 1 17 | 23 42 | 1 4 | 23 39 | 0 52 | 16 13 | 1 59 | 22 11 | 0 3 | 22 36 | 0 54 | 15 12 | 6 0 | 17 18 | 17 10 | 14 56 | | | n.a. |
| F 30 | 19 40 | 3 43 | 3 53 | 17 20 | 3 44 | 12 49 | 1 16 | 23 38 | 1 4 | 23 40 | 0 52 | 16 15 | 1 59 | 22 11 | 0 3 | 22 36 | 0 54 | 15 12 | 6 1 | 17 18 | 17 11 | 14 58 | | | n.a. |
| S 31 | 19n26 | 0n37 | 4s34 | 17n42 | 3s30 | 12n22 | 1n14 | 23n33 | 1n 4 | 23s41 | 0s52 | 16s16 | 2s 0 | 22n11 | 0n 3 | 22n36 | 0s54 | 15n12 | 6s 1 | 17n17 | 17n12 | 15n 0 | | | n.a. |

Julian Day Number = 1696767.5, Delta T = 03h07m39s
Ecliptic obliquity = 23°42'05, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°59'46, Lahiri = - 4°52'45 Julian Calendar 1 July 68 BCE == Greg. Calendar 29 June 068 BCE

The year -67 astronomical counting style corresponds to year 068 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 68 BCE
# geocentric

## AUGUST 68 BCE (-67) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 27 17 | 5♌ 6'28 | 24♈18 | 25°R40 | 2♍19 | 18♋33 | 15°R 7 | 21°R44 | 9♊43 | 22♊34 | 3♊38 | 12♌20 | 12♌34 | 27♉43 | n.a. | S 1 |
| M 2 | 20 31 13 | 6° 4'32 | 6♉20 | 25♋11 | 3°32 | 19°11 | 15♉ 0 | 21♒40 | 9°45 | 22°36 | 3°39 | 12°R20 | 12°31 | 27°50 | n.a. | M 2 |
| T 3 | 20 35 10 | 7° 2'39 | 18°15 | 24°49 | 4°45 | 19°49 | 14°53 | 21°36 | 9°48 | 22°37 | 3°39 | 12°20 | 12°28 | 27°56 | n.a. | T 3 |
| W 4 | 20 39 6 | 8° 0'47 | 0♊ 7 | 24°35 | 5°58 | 20°28 | 14°47 | 21°31 | 9°50 | 22°39 | 3°40 | 12°20 | 12°25 | 28° 3 | n.a. | W 4 |
| T 5 | 20 43 3 | 8°58'57 | 12° 2 | 24°D30 | 7°12 | 21° 6 | 14°40 | 21°27 | 9°52 | 22°41 | 3°41 | 12°19 | 12°21 | 28°10 | n.a. | T 5 |
| F 6 | 20 47 0 | 9°57'10 | 24° 3 | 24°32 | 8°25 | 21°44 | 14°34 | 21°22 | 9°54 | 22°42 | 3°42 | 12°19 | 12°18 | 28°17 | n.a. | F 6 |
| S 7 | 20 50 56 | 10°55'24 | 6♋13 | 24°44 | 9°38 | 22°22 | 14°27 | 21°18 | 9°57 | 22°44 | 3°42 | 12°19 | 12°15 | 28°23 | n.a. | S 7 |
| S 8 | 20 54 53 | 11°53'40 | 18°35 | 25° 4 | 10°51 | 23° 0 | 14°21 | 21°13 | 9°59 | 22°45 | 3°43 | 12°D19 | 12°12 | 28°30 | n.a. | S 8 |
| M 9 | 20 58 49 | 12°51'59 | 1♌11 | 25°33 | 12° 4 | 23°38 | 14°15 | 21° 9 | 10° 1 | 22°47 | 3°44 | 12°19 | 12° 9 | 28°37 | n.a. | M 9 |
| T 10 | 21 2 46 | 13°50'19 | 14° 2 | 26°10 | 13°17 | 24°16 | 14° 9 | 21° 4 | 10° 3 | 22°49 | 3°44 | 12°R19 | 12° 5 | 28°44 | n.a. | T 10 |
| W11 | 21 6 42 | 14°48'42 | 27° 9 | 26°55 | 14°30 | 24°54 | 14° 4 | 21° 0 | 10° 5 | 22°50 | 3°45 | 12°19 | 12° 2 | 28°50 | n.a. | W11 |
| T 12 | 21 10 39 | 15°47'06 | 10♍31 | 27°49 | 15°43 | 25°32 | 13°58 | 20°55 | 10° 7 | 22°52 | 3°45 | 12°18 | 11°59 | 28°57 | n.a. | T 12 |
| F 13 | 21 14 35 | 16°45'32 | 24° 6 | 28°49 | 16°56 | 26°10 | 13°53 | 20°50 | 10° 9 | 22°53 | 3°46 | 12°18 | 11°56 | 29° 4 | n.a. | F 13 |
| S 14 | 21 18 32 | 17°43'59 | 7♎53 | 29°57 | 18° 9 | 26°48 | 13°47 | 20°46 | 10°11 | 22°55 | 3°46 | 12°17 | 11°53 | 29°10 | n.a. | S 14 |
| S 15 | 21 22 28 | 18°42'29 | 21°50 | 1♌11 | 19°22 | 27°26 | 13°42 | 20°41 | 10°12 | 22°56 | 3°47 | 12°17 | 11°50 | 29°17 | n.a. | S 15 |
| M16 | 21 26 25 | 19°41'00 | 5♏55 | 2°31 | 20°35 | 28° 4 | 13°37 | 20°36 | 10°14 | 22°57 | 3°47 | 12°16 | 11°46 | 29°24 | n.a. | M16 |
| T 17 | 21 30 22 | 20°39'33 | 20° 6 | 3°57 | 21°48 | 28°42 | 13°32 | 20°32 | 10°16 | 22°59 | 3°48 | 12°D16 | 11°43 | 29°31 | n.a. | T 17 |
| W18 | 21 34 18 | 21°38'07 | 4♐20 | 5°27 | 23° 1 | 29°20 | 13°28 | 20°27 | 10°17 | 23° 0 | 3°48 | 12°16 | 11°40 | 29°37 | n.a. | W18 |
| T 19 | 21 38 15 | 22°36'44 | 18°35 | 7° 1 | 24°14 | 29°58 | 13°23 | 20°22 | 10°19 | 23° 2 | 3°49 | 12°17 | 11°37 | 29°44 | n.a. | T 19 |
| F 20 | 21 42 11 | 23°35'22 | 2♑48 | 8°39 | 25°26 | 0♌36 | 13°19 | 20°18 | 10°21 | 23° 3 | 3°49 | 12°18 | 11°34 | 29°51 | n.a. | F 20 |
| S 21 | 21 46 8 | 24°34'02 | 16°57 | 10°19 | 26°39 | 1°14 | 13°15 | 20°13 | 10°22 | 23° 4 | 3°50 | 12°19 | 11°30 | 29°57 | n.a. | S 21 |
| S 22 | 21 50 4 | 25°32'44 | 0♒57 | 12° 3 | 27°52 | 1°52 | 13°11 | 20° 9 | 10°24 | 23° 5 | 3°50 | 12°19 | 11°27 | 0♊ 4 | n.a. | S 22 |
| M23 | 21 54 1 | 26°31'28 | 14°47 | 13°48 | 29° 5 | 2°29 | 13° 7 | 20° 4 | 10°25 | 23° 7 | 3°50 | 12°R20 | 11°24 | 0°11 | n.a. | M23 |
| T 24 | 21 57 57 | 27°30'13 | 28°22 | 15°35 | 0♎17 | 3° 7 | 13° 4 | 19°59 | 10°26 | 23° 8 | 3°51 | 12°19 | 11°21 | 0°18 | n.a. | T 24 |
| W25 | 22 1 54 | 28°29'01 | 11♓42 | 17°23 | 1°30 | 3°45 | 13° 0 | 19°55 | 10°28 | 23° 9 | 3°51 | 12°18 | 11°18 | 0°24 | n.a. | W25 |
| T 26 | 22 5 51 | 29°27'51 | 24°44 | 19°12 | 2°43 | 4°23 | 12°57 | 19°50 | 10°29 | 23°10 | 3°51 | 12°16 | 11°15 | 0°31 | n.a. | T 26 |
| F 27 | 22 9 47 | 0♍26'43 | 7♈29 | 21° 2 | 3°55 | 5° 1 | 12°54 | 19°46 | 10°30 | 23°11 | 3°51 | 12°13 | 11°11 | 0°38 | n.a. | F 27 |
| S 28 | 22 13 44 | 1°25'37 | 19°57 | 22°52 | 5° 8 | 5°39 | 12°51 | 19°41 | 10°32 | 23°12 | 3°52 | 12°10 | 11° 8 | 0°44 | n.a. | S 28 |
| S 29 | 22 17 40 | 2°24'34 | 2♉11 | 24°42 | 6°20 | 6°17 | 12°48 | 19°37 | 10°33 | 23°13 | 3°52 | 12° 7 | 11° 5 | 0°51 | n.a. | S 29 |
| M30 | 22 21 37 | 3°23'33 | 14°13 | 26°31 | 7°33 | 6°54 | 12°46 | 19°32 | 10°34 | 23°14 | 3°52 | 12° 5 | 11° 2 | 0°58 | n.a. | M30 |
| T 31 | 22 25 33 | 4♍22'35 | 26♉ 8 | 28♌21 | 8♎46 | 7♌32 | 12♑43 | 19♒28 | 10♊35 | 23♊15 | 3♊52 | 12♌ 4 | 10♌59 | 1♊ 5 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| S 1 | 19n12 | 4n51 | 5s 1 | 18n 4 | 3s14 | 11n54 | 1n13 | 23n28 | 1n 5 | 23s42 | 0s52 | 16s18 | 2s 0 | 22n12 | 0n 3 | 22n36 | 0s54 | 15n12 | 6s 1 | 17n17 | 17n13 | 15n 2 | | | n.a. |
| M 2 | 18 58 | 8 49 | 5 15 | 18 25 | 2 58 | 11 25 | 1 11 | 23 23 | 1 5 | 23 42 | 0 52 | 16 19 | 2 0 | 22 12 | 0 3 | 22 36 | 0 54 | 15 12 | 6 1 | 17 17 | 17 14 | 15 3 | | | n.a. |
| T 3 | 18 43 | 12 24 | 5 15 | 18 46 | 2 40 | 10 57 | 1 9 | 23 18 | 1 5 | 23 43 | 0 52 | 16 21 | 2 0 | 22 13 | 0 3 | 22 36 | 0 54 | 15 12 | 6 1 | 17 17 | 17 15 | 15 5 | | | n.a. |
| W 4 | 18 28 | 15 29 | 5 2 | 19 6 | 2 22 | 10 28 | 1 7 | 23 12 | 1 6 | 23 44 | 0 52 | 16 23 | 2 0 | 22 13 | 0 3 | 22 36 | 0 54 | 15 13 | 6 1 | 17 17 | 17 16 | 15 7 | | | n.a. |
| T 5 | 18 12 | 17 56 | 4 35 | 19 25 | 2 4 | 9 59 | 1 6 | 23 7 | 1 6 | 23 45 | 0 52 | 16 24 | 2 0 | 22 13 | 0 3 | 22 36 | 0 54 | 15 13 | 6 1 | 17 17 | 17 17 | 15 8 | | | n.a. |
| F 6 | 17 57 | 19 37 | 3 57 | 19 43 | 1 46 | 9 29 | 1 4 | 23 1 | 1 6 | 23 46 | 0 52 | 16 26 | 2 0 | 22 14 | 0 3 | 22 36 | 0 54 | 15 13 | 6 1 | 17 17 | 17 18 | 15 10 | | | n.a. |
| S 7 | 17 41 | 20 26 | 3 7 | 19 59 | 1 27 | 8 59 | 1 2 | 22 55 | 1 6 | 23 46 | 0 52 | 16 27 | 2 0 | 22 14 | 0 3 | 22 36 | 0 54 | 15 13 | 6 1 | 17 18 | 17 19 | 15 12 | | | n.a. |
| S 8 | 17 25 | 20 17 | 2 8 | 20 13 | 1 9 | 8 30 | 0 59 | 22 49 | 1 7 | 23 47 | 0 52 | 16 29 | 2 1 | 22 14 | 0 3 | 22 36 | 0 54 | 15 13 | 6 1 | 17 18 | 17 20 | 15 14 | | | n.a. |
| M 9 | 17 8 | 19 7 | 1 1 | 20 25 | 0 52 | 7 59 | 0 57 | 22 43 | 1 7 | 23 48 | 0 52 | 16 31 | 2 1 | 22 15 | 0 3 | 22 37 | 0 54 | 15 13 | 6 1 | 17 18 | 17 20 | 15 15 | | | n.a. |
| T 10 | 16 51 | 16 57 | 0n10 | 20 35 | 0 35 | 7 29 | 0 55 | 22 36 | 1 7 | 23 48 | 0 52 | 16 32 | 2 1 | 22 15 | 0 3 | 22 37 | 0 54 | 15 13 | 6 1 | 17 18 | 17 21 | 15 17 | | | n.a. |
| W11 | 16 34 | 13 52 | 1 21 | 20 42 | 0 18 | 6 59 | 0 53 | 22 30 | 1 8 | 23 49 | 0 52 | 16 34 | 2 1 | 22 15 | 0 3 | 22 37 | 0 54 | 15 13 | 6 1 | 17 18 | 17 22 | 15 19 | | | n.a. |
| T 12 | 16 17 | 10 1 | 2 30 | 20 47 | 0 3 | 6 28 | 0 50 | 22 23 | 1 8 | 23 50 | 0 52 | 16 35 | 2 1 | 22 15 | 0 3 | 22 37 | 0 54 | 15 13 | 6 1 | 17 18 | 17 23 | 15 20 | | | n.a. |
| F 13 | 15 59 | 5 36 | 3 32 | 20 49 | 0n12 | 5 57 | 0 48 | 22 16 | 1 8 | 23 50 | 0 52 | 16 37 | 2 1 | 22 16 | 0 3 | 22 37 | 0 54 | 15 13 | 6 2 | 17 18 | 17 24 | 15 22 | | | n.a. |
| S 14 | 15 41 | 0 50 | 4 22 | 20 48 | 0 26 | 5 26 | 0 46 | 22 9 | 1 9 | 23 51 | 0 52 | 16 38 | 2 1 | 22 16 | 0 3 | 22 37 | 0 54 | 15 13 | 6 2 | 17 18 | 17 25 | 15 24 | | | n.a. |
| S 15 | 15 23 | 4s 1 | 4 57 | 20 44 | 0 38 | 4 55 | 0 43 | 22 2 | 1 9 | 23 51 | 0 52 | 16 40 | 2 1 | 22 16 | 0 3 | 22 37 | 0 54 | 15 13 | 6 2 | 17 18 | 17 26 | 15 25 | | | n.a. |
| M16 | 15 5 | 8 41 | 5 15 | 20 37 | 0 50 | 4 24 | 0 41 | 21 54 | 1 9 | 23 52 | 0 52 | 16 42 | 2 1 | 22 17 | 0 3 | 22 37 | 0 54 | 15 13 | 6 2 | 17 18 | 17 27 | 15 27 | | | n.a. |
| T 17 | 14 46 | 12 55 | 5 14 | 20 28 | 1 1 | 3 52 | 0 38 | 21 47 | 1 9 | 23 52 | 0 52 | 16 43 | 2 1 | 22 17 | 0 3 | 22 37 | 0 54 | 15 13 | 6 2 | 17 18 | 17 28 | 15 29 | | | n.a. |
| W18 | 14 27 | 16 26 | 4 54 | 20 15 | 1 10 | 3 21 | 0 35 | 21 39 | 1 10 | 23 53 | 0 53 | 16 45 | 2 1 | 22 17 | 0 3 | 22 37 | 0 54 | 15 13 | 6 2 | 17 18 | 17 28 | 15 30 | | | n.a. |
| T 19 | 14 8 | 18 58 | 4 15 | 19 59 | 1 19 | 2 49 | 0 33 | 21 31 | 1 10 | 23 53 | 0 53 | 16 46 | 2 2 | 22 17 | 0 3 | 22 37 | 0 54 | 15 13 | 6 2 | 17 18 | 17 29 | 15 32 | | | n.a. |
| F 20 | 13 48 | 20 19 | 3 22 | 19 41 | 1 26 | 2 17 | 0 30 | 21 23 | 1 10 | 23 54 | 0 53 | 16 48 | 2 2 | 22 18 | 0 3 | 22 37 | 0 54 | 15 13 | 6 2 | 17 18 | 17 30 | 15 34 | | | n.a. |
| S 21 | 13 29 | 20 22 | 2 16 | 19 20 | 1 32 | 1 46 | 0 27 | 21 15 | 1 11 | 23 54 | 0 53 | 16 49 | 2 2 | 22 18 | 0 3 | 22 37 | 0 54 | 15 13 | 6 2 | 17 18 | 17 31 | 15 35 | | | n.a. |
| S 22 | 13 9 | 19 9 | 1 3 | 18 56 | 1 38 | 1 14 | 0 24 | 21 7 | 1 11 | 23 55 | 0 53 | 16 51 | 2 2 | 22 18 | 0 3 | 22 37 | 0 54 | 15 13 | 6 2 | 17 17 | 17 32 | 15 37 | | | n.a. |
| M23 | 12 49 | 16 48 | 0s14 | 18 30 | 1 42 | 0 42 | 0 21 | 20 58 | 1 11 | 23 55 | 0 53 | 16 52 | 2 2 | 22 18 | 0 3 | 22 37 | 0 54 | 15 13 | 6 2 | 17 17 | 17 33 | 15 39 | | | n.a. |
| T 24 | 12 28 | 13 32 | 1 28 | 18 1 | 1 46 | 0 10 | 0 18 | 20 50 | 1 11 | 23 55 | 0 53 | 16 54 | 2 2 | 22 19 | 0 3 | 22 37 | 0 54 | 15 13 | 6 2 | 17 17 | 17 34 | 15 40 | | | n.a. |
| W25 | 12 8 | 9 38 | 2 35 | 17 31 | 1 48 | 0s22 | 0 16 | 20 41 | 1 12 | 23 56 | 0 53 | 16 55 | 2 2 | 22 19 | 0 3 | 22 37 | 0 54 | 15 13 | 6 3 | 17 18 | 17 35 | 15 42 | | | n.a. |
| T 26 | 11 47 | 5 22 | 3 33 | 16 58 | 1 50 | 0 54 | 0 13 | 20 32 | 1 12 | 23 56 | 0 53 | 16 57 | 2 2 | 22 19 | 0 3 | 22 38 | 0 54 | 15 13 | 6 3 | 17 18 | 17 36 | 15 44 | | | n.a. |
| F 27 | 11 26 | 0 58 | 4 19 | 16 24 | 1 51 | 1 26 | 0 9 | 20 23 | 1 12 | 23 56 | 0 53 | 16 58 | 2 2 | 22 19 | 0 3 | 22 38 | 0 54 | 15 13 | 6 3 | 17 19 | 17 36 | 15 45 | | | n.a. |
| S 28 | 11 5 | 3n23 | 4 52 | 15 48 | 1 51 | 1 58 | 0 6 | 20 14 | 1 12 | 23 57 | 0 52 | 17 0 | 2 2 | 22 19 | 0 3 | 22 38 | 0 54 | 15 13 | 6 3 | 17 20 | 17 37 | 15 47 | | | n.a. |
| S 29 | 10 44 | 7 31 | 5 10 | 15 10 | 1 51 | 2 30 | 0 3 | 20 5 | 1 13 | 23 57 | 0 52 | 17 1 | 2 2 | 22 19 | 0 3 | 22 38 | 0 54 | 15 13 | 6 3 | 17 21 | 17 38 | 15 49 | | | n.a. |
| M30 | 10 22 | 11 17 | 5 15 | 14 32 | 1 50 | 3 2 | 0 0 | 19 55 | 1 13 | 23 57 | 0 52 | 17 3 | 2 2 | 22 20 | 0 3 | 22 38 | 0 54 | 15 13 | 6 3 | 17 21 | 17 39 | 15 50 | | | n.a. |
| T 31 | 10n 1 | 14n33 | 5s 5 | 13n52 | 1n48 | 3s33 | 0s 3 | 19n46 | 1n13 | 23s57 | 0s52 | 17s 4 | 2s 2 | 22n20 | 0n 3 | 22n38 | 0s54 | 15n13 | 6s 3 | 17n22 | 17n40 | 15n52 | | | n.a. |

Julian Day Number = 1696798.5, Delta T = 03h07m38s
Ecliptic obliquity = 23°42'05, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°59'41, Lahiri = - 4°52'41 Julian Calendar 1 Aug. 68 BCE == Greg. Calendar 30 July 068 BCE

The year -67 astronomical counting style corresponds to year 068 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 68 BCE
# geocentric

## SEPTEMBER 68 BCE (-67) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 22 29 30 | 5♍21'39 | 8♊ 1 | 0♍10 | 9♎58 | 8♌10 | 12°R41 | 19°R23 | 10♊36 | 23♊16 | 3♊52 | 12°D 4 | 10♌56 | 1♊11 | n.a. | W 1 |
| T 2 | 22 33 26 | 6°20'45 | 19°55 | 1°59 | 11°10 | 8°48 | 12♑39 | 19♒19 | 10°37 | 23°17 | 3°52 | 12♌ 5 | 10°52 | 1°18 | n.a. | T 2 |
| F 3 | 22 37 23 | 7°19'54 | 1♋56 | 3°48 | 12°23 | 9°26 | 12°38 | 19°15 | 10°38 | 23°18 | 3°52 | 12° 6 | 10°49 | 1°25 | n.a. | F 3 |
| S 4 | 22 41 20 | 8°19'05 | 14° 8 | 5°35 | 13°35 | 10° 3 | 12°36 | 19°11 | 10°38 | 23°19 | 3°53 | 12° 8 | 10°46 | 1°31 | n.a. | S 4 |
| S 5 | 22 45 16 | 9°18'18 | 26°35 | 7°22 | 14°48 | 10°41 | 12°35 | 19° 6 | 10°39 | 23°20 | 3°53 | 12° 9 | 10°43 | 1°38 | n.a. | S 5 |
| M 6 | 22 49 13 | 10°17'34 | 9♌21 | 9° 9 | 16° 0 | 11°19 | 12°34 | 19° 2 | 10°40 | 23°20 | 3°R53 | 12°R10 | 10°40 | 1°45 | n.a. | M 6 |
| T 7 | 22 53 9 | 11°16'52 | 22°28 | 10°54 | 17°12 | 11°57 | 12°33 | 18°58 | 10°41 | 23°21 | 3°53 | 12°10 | 10°36 | 1°52 | n.a. | T 7 |
| W 8 | 22 57 6 | 12°16'13 | 5♍55 | 12°39 | 18°25 | 12°35 | 12°32 | 18°54 | 10°41 | 23°22 | 3°53 | 12° 8 | 10°33 | 1°58 | n.a. | W 8 |
| T 9 | 23 1 2 | 13°15'35 | 19°42 | 14°23 | 19°37 | 13°12 | 12°32 | 18°50 | 10°42 | 23°23 | 3°53 | 12° 4 | 10°30 | 2° 5 | n.a. | T 9 |
| F 10 | 23 4 59 | 14°14'59 | 3♎46 | 16° 6 | 20°49 | 13°50 | 12°31 | 18°46 | 10°42 | 23°23 | 3°52 | 12° 0 | 10°27 | 2°12 | n.a. | F 10 |
| S 11 | 23 8 55 | 15°14'26 | 18° 2 | 17°49 | 22° 1 | 14°28 | 12°D31 | 18°42 | 10°43 | 23°24 | 3°52 | 11°55 | 10°24 | 2°18 | n.a. | S 11 |
| S 12 | 23 12 52 | 16°13'55 | 2♏24 | 19°30 | 23°13 | 15° 5 | 12°31 | 18°38 | 10°43 | 23°25 | 3°52 | 11°50 | 10°21 | 2°25 | n.a. | S 12 |
| M13 | 23 16 48 | 17°13'25 | 16°48 | 21°11 | 24°25 | 15°43 | 12°31 | 18°34 | 10°43 | 23°25 | 3°52 | 11°46 | 10°17 | 2°32 | n.a. | M13 |
| T 14 | 23 20 45 | 18°12'57 | 1♐ 8 | 22°52 | 25°37 | 16°21 | 12°32 | 18°31 | 10°44 | 23°26 | 3°52 | 11°43 | 10°14 | 2°39 | n.a. | T 14 |
| W15 | 23 24 42 | 19°12'32 | 15°23 | 24°31 | 26°49 | 16°59 | 12°33 | 18°27 | 10°44 | 23°26 | 3°52 | 11°D42 | 10°11 | 2°45 | n.a. | W15 |
| T 16 | 23 28 38 | 20°12'08 | 29°28 | 26°10 | 28° 1 | 17°36 | 12°33 | 18°23 | 10°44 | 23°27 | 3°52 | 11°42 | 10° 8 | 2°52 | n.a. | T 16 |
| F 17 | 23 32 35 | 21°11'46 | 13♑23 | 27°48 | 29°13 | 18°14 | 12°35 | 18°20 | 10°44 | 23°27 | 3°51 | 11°43 | 10° 5 | 2°59 | n.a. | F 17 |
| S 18 | 23 36 31 | 22°11'25 | 27° 8 | 29°26 | 0♏25 | 18°52 | 12°36 | 18°16 | 10°44 | 23°27 | 3°51 | 11°44 | 10° 2 | 3° 5 | n.a. | S 18 |
| S 19 | 23 40 28 | 23°11'07 | 10♒42 | 1♎ 3 | 1°37 | 19°29 | 12°37 | 18°13 | 10°R44 | 23°28 | 3°51 | 11°R45 | 9°58 | 3°12 | n.a. | S 19 |
| M20 | 23 44 24 | 24°10'50 | 24° 5 | 2°39 | 2°49 | 20° 7 | 12°39 | 18°10 | 10°44 | 23°28 | 3°51 | 11°44 | 9°55 | 3°19 | n.a. | M20 |
| T 21 | 23 48 21 | 25°10'35 | 7♓17 | 4°14 | 4° 1 | 20°44 | 12°41 | 18° 7 | 10°44 | 23°28 | 3°50 | 11°42 | 9°52 | 3°26 | n.a. | T 21 |
| W22 | 23 52 17 | 26°10'23 | 20°17 | 5°49 | 5°12 | 21°22 | 12°43 | 18° 3 | 10°44 | 23°29 | 3°50 | 11°37 | 9°49 | 3°32 | n.a. | W22 |
| T 23 | 23 56 14 | 27°10'12 | 3♈ 4 | 7°24 | 6°24 | 22° 0 | 12°45 | 18° 0 | 10°44 | 23°29 | 3°50 | 11°30 | 9°46 | 3°39 | n.a. | T 23 |
| F 24 | 0 0 11 | 28°10'03 | 15°38 | 8°57 | 7°35 | 22°37 | 12°48 | 17°57 | 10°44 | 23°29 | 3°49 | 11°21 | 9°42 | 3°46 | n.a. | F 24 |
| S 25 | 0 4 7 | 29° 9'56 | 28° 0 | 10°31 | 8°47 | 23°15 | 12°50 | 17°54 | 10°43 | 23°29 | 3°49 | 11°12 | 9°39 | 3°52 | n.a. | S 25 |
| S 26 | 0 8 4 | 0♎ 9'52 | 10♉10 | 12° 3 | 9°58 | 23°52 | 12°53 | 17°52 | 10°43 | 23°29 | 3°48 | 11° 3 | 9°36 | 3°59 | n.a. | S 26 |
| M27 | 0 12 0 | 1° 9'50 | 22°11 | 13°35 | 11°10 | 24°30 | 12°56 | 17°49 | 10°43 | 23°29 | 3°48 | 10°56 | 9°33 | 4° 6 | n.a. | M27 |
| T 28 | 0 15 57 | 2° 9'50 | 4♊ 4 | 15° 7 | 12°21 | 25° 8 | 12°59 | 17°46 | 10°42 | 23°29 | 3°47 | 10°49 | 9°30 | 4°12 | n.a. | T 28 |
| W29 | 0 19 53 | 3° 9'52 | 15°55 | 16°38 | 13°32 | 25°45 | 13° 3 | 17°44 | 10°42 | 23°R29 | 3°47 | 10°45 | 9°27 | 4°19 | n.a. | W29 |
| T 30 | 0 23 50 | 4♎ 9'57 | 27♊47 | 18♎ 9 | 14♏44 | 26♌23 | 13♑ 6 | 17♒41 | 10♊41 | 23♊29 | 3♊46 | 10♌44 | 9♌23 | 4♊26 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 9n39 | 17n14 | 4s43 | 13n11 | 1n46 | 4s 5 | 0s 6 | 19n36 | 1n13 | 23s58 | 0s52 | 17s 6 | 2s 2 | 22n20 | 0n 3 | 22n38 | 0s54 | 15n12 | 6s 3 | 17n22 | 17n41 | 15n54 | | n.a. |
| T 2 | 9 17 | 19 11 | 4 9 | 12 29 | 1 43 | 4 37 | 0 9 | 19 26 | 1 14 | 23 58 | 0 52 | 17 7 | 2 2 | 22 20 | 0 3 | 22 38 | 0 54 | 15 12 | 6 3 | 17 22 | 17 42 | 15 55 | | n.a. |
| F 3 | 8 55 | 20 18 | 3 23 | 11 47 | 1 40 | 5 8 | 0 13 | 19 16 | 1 14 | 23 58 | 0 52 | 17 8 | 2 2 | 22 20 | 0 3 | 22 38 | 0 54 | 15 12 | 6 3 | 17 21 | 17 43 | 15 57 | | n.a. |
| S 4 | 8 32 | 20 30 | 2 28 | 11 3 | 1 37 | 5 40 | 0 16 | 19 6 | 1 14 | 23 58 | 0 52 | 17 10 | 2 2 | 22 20 | 0 3 | 22 38 | 0 54 | 15 12 | 6 3 | 17 21 | 17 43 | 15 59 | | n.a. |
| S 5 | 8 10 | 19 41 | 1 24 | 10 20 | 1 33 | 6 11 | 0 19 | 18 56 | 1 14 | 23 58 | 0 52 | 17 11 | 2 2 | 22 21 | 0 3 | 22 38 | 0 54 | 15 12 | 6 4 | 17 20 | 17 44 | 16 0 | | n.a. |
| M 6 | 7 47 | 17 52 | 0 15 | 9 35 | 1 28 | 6 42 | 0 23 | 18 46 | 1 15 | 23 58 | 0 52 | 17 12 | 2 2 | 22 21 | 0 3 | 22 38 | 0 54 | 15 12 | 6 4 | 17 20 | 17 45 | 16 2 | | n.a. |
| T 7 | 7 25 | 15 4 | 0n56 | 8 51 | 1 24 | 7 14 | 0 26 | 18 36 | 1 15 | 23 58 | 0 52 | 17 14 | 2 2 | 22 21 | 0 3 | 22 38 | 0 54 | 15 12 | 6 4 | 17 20 | 17 46 | 16 4 | | n.a. |
| W 8 | 7 2 | 11 24 | 2 6 | 8 6 | 1 19 | 7 45 | 0 29 | 18 25 | 1 15 | 23 58 | 0 52 | 17 15 | 2 2 | 22 21 | 0 3 | 22 38 | 0 54 | 15 12 | 6 4 | 17 21 | 17 47 | 16 5 | | n.a. |
| T 9 | 6 39 | 7 2 | 3 11 | 7 21 | 1 14 | 8 15 | 0 33 | 18 14 | 1 15 | 23 58 | 0 52 | 17 16 | 2 2 | 22 21 | 0 3 | 22 38 | 0 54 | 15 12 | 6 4 | 17 22 | 17 48 | 16 7 | | n.a. |
| F 10 | 6 16 | 2 14 | 4 5 | 6 35 | 1 8 | 8 46 | 0 36 | 18 4 | 1 16 | 23 58 | 0 52 | 17 17 | 2 2 | 22 21 | 0 3 | 22 38 | 0 54 | 15 12 | 6 4 | 17 23 | 17 49 | 16 8 | | n.a. |
| S 11 | 5 53 | 2s46 | 4 45 | 5 50 | 1 3 | 9 16 | 0 39 | 17 53 | 1 16 | 23 58 | 0 52 | 17 19 | 2 2 | 22 21 | 0 3 | 22 38 | 0 54 | 15 12 | 6 4 | 17 24 | 17 50 | 16 10 | | n.a. |
| S 12 | 5 29 | 7 38 | 5 7 | 5 4 | 0 57 | 9 47 | 0 43 | 17 42 | 1 16 | 23 58 | 0 52 | 17 20 | 2 2 | 22 21 | 0 3 | 22 38 | 0 54 | 15 12 | 6 4 | 17 26 | 17 50 | 16 12 | | n.a. |
| M13 | 5 6 | 12 5 | 5 10 | 4 19 | 0 51 | 10 17 | 0 46 | 17 31 | 1 16 | 23 58 | 0 52 | 17 21 | 2 2 | 22 21 | 0 3 | 22 38 | 0 54 | 15 11 | 6 4 | 17 27 | 17 51 | 16 13 | | n.a. |
| T 14 | 4 43 | 15 49 | 4 54 | 3 33 | 0 45 | 10 47 | 0 49 | 17 19 | 1 17 | 23 58 | 0 52 | 17 22 | 2 2 | 22 21 | 0 3 | 22 38 | 0 54 | 15 11 | 6 4 | 17 28 | 17 52 | 16 15 | | n.a. |
| W15 | 4 19 | 18 36 | 4 19 | 2 47 | 0 39 | 11 16 | 0 53 | 17 8 | 1 17 | 23 58 | 0 52 | 17 23 | 2 2 | 22 21 | 0 3 | 22 38 | 0 54 | 15 11 | 6 4 | 17 28 | 17 53 | 16 17 | | n.a. |
| T 16 | 3 55 | 20 13 | 3 29 | 2 2 | 0 32 | 11 46 | 0 56 | 16 57 | 1 17 | 23 58 | 0 52 | 17 24 | 2 1 | 22 21 | 0 3 | 22 38 | 0 54 | 15 11 | 6 5 | 17 28 | 17 54 | 16 18 | | n.a. |
| F 17 | 3 32 | 20 34 | 2 28 | 1 17 | 0 26 | 12 15 | 1 0 | 16 45 | 1 17 | 23 58 | 0 52 | 17 25 | 2 1 | 22 21 | 0 3 | 22 38 | 0 54 | 15 11 | 6 5 | 17 28 | 17 55 | 16 20 | | n.a. |
| S 18 | 3 8 | 19 41 | 1 19 | 0 31 | 0 19 | 12 43 | 1 3 | 16 34 | 1 17 | 23 57 | 0 52 | 17 26 | 2 1 | 22 21 | 0 3 | 22 38 | 0 54 | 15 11 | 6 5 | 17 27 | 17 56 | 16 21 | | n.a. |
| S 19 | 2 44 | 17 39 | 0 6 | 0s14 | 0 13 | 13 12 | 1 6 | 16 22 | 1 18 | 23 57 | 0 52 | 17 27 | 2 1 | 22 21 | 0 3 | 22 38 | 0 54 | 15 11 | 6 5 | 17 27 | 17 57 | 16 23 | | n.a. |
| M20 | 2 20 | 14 41 | 1s 6 | 0 58 | 0 6 | 13 40 | 1 10 | 16 10 | 1 18 | 23 57 | 0 52 | 17 28 | 2 1 | 22 21 | 0 3 | 22 38 | 0 54 | 15 11 | 6 5 | 17 27 | 17 57 | 16 25 | | n.a. |
| T 21 | 1 56 | 11 0 | 2 14 | 1 43 | 0s 1 | 14 8 | 1 13 | 15 58 | 1 18 | 23 57 | 0 52 | 17 29 | 2 1 | 22 21 | 0 3 | 22 38 | 0 54 | 15 10 | 6 5 | 17 28 | 17 58 | 16 26 | | n.a. |
| W22 | 1 32 | 6 50 | 3 13 | 2 27 | 0 8 | 14 36 | 1 16 | 15 46 | 1 18 | 23 57 | 0 52 | 17 30 | 2 1 | 22 21 | 0 3 | 22 38 | 0 54 | 15 10 | 6 5 | 17 29 | 17 59 | 16 28 | | n.a. |
| T 23 | 1 8 | 2 27 | 4 1 | 3 11 | 0 14 | 15 3 | 1 19 | 15 34 | 1 18 | 23 56 | 0 52 | 17 31 | 2 1 | 22 21 | 0 3 | 22 38 | 0 54 | 15 10 | 6 5 | 17 31 | 18 0 | 16 29 | | n.a. |
| F 24 | 0 44 | 1n58 | 4 37 | 3 55 | 0 21 | 15 30 | 1 23 | 15 22 | 1 19 | 23 56 | 0 51 | 17 32 | 2 1 | 22 21 | 0 3 | 22 38 | 0 55 | 15 10 | 6 5 | 17 34 | 18 1 | 16 31 | | n.a. |
| S 25 | 0 20 | 6 14 | 4 59 | 4 38 | 0 28 | 15 56 | 1 26 | 15 9 | 1 19 | 23 56 | 0 51 | 17 33 | 2 1 | 22 21 | 0 3 | 22 38 | 0 55 | 15 10 | 6 5 | 17 36 | 18 2 | 16 33 | | n.a. |
| S 26 | 0s 4 | 10 11 | 5 7 | 5 21 | 0 35 | 16 22 | 1 29 | 14 57 | 1 19 | 23 55 | 0 51 | 17 34 | 2 1 | 22 21 | 0 3 | 22 38 | 0 55 | 15 10 | 6 5 | 17 39 | 18 3 | 16 34 | | n.a. |
| M27 | 0 28 | 13 40 | 5 1 | 6 3 | 0 41 | 16 48 | 1 32 | 14 45 | 1 19 | 23 55 | 0 51 | 17 34 | 2 1 | 22 21 | 0 4 | 22 38 | 0 55 | 15 10 | 6 5 | 17 41 | 18 3 | 16 36 | | n.a. |
| T 28 | 0 52 | 16 34 | 4 42 | 6 45 | 0 48 | 17 14 | 1 36 | 14 32 | 1 19 | 23 55 | 0 51 | 17 35 | 2 1 | 22 21 | 0 4 | 22 38 | 0 55 | 15 9 | 6 5 | 17 43 | 18 4 | 16 37 | | n.a. |
| W29 | 1 16 | 18 47 | 4 11 | 7 27 | 0 55 | 17 39 | 1 39 | 14 19 | 1 20 | 23 54 | 0 51 | 17 36 | 2 0 | 22 21 | 0 4 | 22 38 | 0 55 | 15 9 | 6 6 | 17 44 | 18 5 | 16 39 | | n.a. |
| T 30 | 1s40 | 20n11 | 3s30 | 8s 8 | 1s 1 | 18s 3 | 1s42 | 14n 7 | 1n20 | 23s54 | 0s51 | 17s36 | 2s 0 | 22n21 | 0n 4 | 22n38 | 0s55 | 15n 9 | 6s 6 | 17n44 | 18n 6 | 16n41 | | n.a. |

Julian Day Number = 1696829.5, Delta T = 03h07m37s
Ecliptic obliquity = 23°42'06, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°59'37, Lahiri = - 4°52'37 Julian Calendar 1 Sept. 68 BCE == Greg. Calendar 30 Aug. 068 BCE

The year -67 astronomical counting style corresponds to year 068 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 68 BCE
# geocentric

## OCTOBER 68 BCE (-67) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 0 27 46 | 5♎10'04 | 9♋45 | 19♎39 | 15♏55 | 27♌ 0 | 13♑10 | 17°R39 | 10°R41 | 23°R29 | 3°R46 | 10°D43 | 9♌20 | 4♊33 | n.a. | F 1 |
| S 2 | 0 31 43 | 6°10'13 | 21°55 | 21° 8 | 17° 6 | 27°38 | 13°14 | 17♒37 | 10♊40 | 23♊29 | 3♊45 | 10♌44 | 9°17 | 4°39 | n.a. | S 2 |
| S 3 | 0 35 39 | 7°10'24 | 4♌21 | 22°37 | 18°17 | 28°15 | 13°18 | 17°34 | 10°39 | 23°29 | 3°45 | 10°R45 | 9°14 | 4°46 | n.a. | S 3 |
| M 4 | 0 39 36 | 8°10'37 | 17° 9 | 24° 6 | 19°28 | 28°53 | 13°23 | 17°32 | 10°38 | 23°29 | 3°44 | 10°45 | 9°11 | 4°53 | n.a. | M 4 |
| T 5 | 0 43 33 | 9°10'53 | 0♍21 | 25°34 | 20°39 | 29°30 | 13°27 | 17°30 | 10°38 | 23°29 | 3°44 | 10°43 | 9° 7 | 4°59 | n.a. | T 5 |
| W 6 | 0 47 29 | 10°11'10 | 14° 0 | 27° 1 | 21°50 | 0♍ 8 | 13°32 | 17°28 | 10°37 | 23°29 | 3°43 | 10°39 | 9° 4 | 5° 6 | n.a. | W 6 |
| T 7 | 0 51 26 | 11°11'29 | 28° 5 | 28°28 | 23° 1 | 0°45 | 13°37 | 17°27 | 10°36 | 23°28 | 3°42 | 10°32 | 9° 1 | 5°13 | n.a. | T 7 |
| F 8 | 0 55 22 | 12°11'51 | 12♎33 | 29°54 | 24°11 | 1°23 | 13°42 | 17°25 | 10°35 | 23°28 | 3°42 | 10°23 | 8°58 | 5°20 | n.a. | F 8 |
| S 9 | 0 59 19 | 13°12'14 | 27°16 | 1♏19 | 25°22 | 2° 0 | 13°47 | 17°23 | 10°34 | 23°28 | 3°41 | 10°13 | 8°55 | 5°26 | n.a. | S 9 |
| S 10 | 1 3 15 | 14°12'39 | 12♏ 7 | 2°44 | 26°33 | 2°38 | 13°53 | 17°22 | 10°33 | 23°27 | 3°40 | 10° 3 | 8°52 | 5°33 | n.a. | S 10 |
| M11 | 1 7 12 | 15°13'05 | 26°57 | 4° 8 | 27°43 | 3°15 | 13°58 | 17°20 | 10°32 | 23°27 | 3°39 | 9°54 | 8°48 | 5°40 | n.a. | M11 |
| T 12 | 1 11 8 | 16°13'34 | 11♐38 | 5°31 | 28°54 | 3°52 | 14° 4 | 17°19 | 10°30 | 23°27 | 3°39 | 9°47 | 8°45 | 5°46 | n.a. | T 12 |
| W13 | 1 15 5 | 17°14'03 | 26° 5 | 6°54 | 0♐ 4 | 4°30 | 14°10 | 17°18 | 10°29 | 23°26 | 3°38 | 9°43 | 8°42 | 5°53 | n.a. | W13 |
| T 14 | 1 19 2 | 18°14'34 | 10♑14 | 8°15 | 1°14 | 5° 7 | 14°16 | 17°17 | 10°28 | 23°26 | 3°37 | 9°42 | 8°39 | 6° 0 | n.a. | T 14 |
| F 15 | 1 22 58 | 19°15'07 | 24° 4 | 9°35 | 2°24 | 5°45 | 14°22 | 17°16 | 10°27 | 23°25 | 3°36 | 9°D41 | 8°36 | 6° 7 | n.a. | F 15 |
| S 16 | 1 26 55 | 20°15'41 | 7♒37 | 10°54 | 3°35 | 6°22 | 14°29 | 17°15 | 10°25 | 23°25 | 3°36 | 9°R42 | 8°33 | 6°13 | n.a. | S 16 |
| S 17 | 1 30 51 | 21°16'16 | 20°53 | 12°12 | 4°45 | 6°59 | 14°35 | 17°14 | 10°24 | 23°24 | 3°35 | 9°41 | 8°29 | 6°20 | n.a. | S 17 |
| M18 | 1 34 48 | 22°16'52 | 3♓56 | 13°28 | 5°54 | 7°37 | 14°42 | 17°13 | 10°23 | 23°23 | 3°34 | 9°39 | 8°26 | 6°27 | n.a. | M18 |
| T 19 | 1 38 44 | 23°17'30 | 16°46 | 14°43 | 7° 4 | 8°14 | 14°49 | 17°13 | 10°21 | 23°23 | 3°33 | 9°34 | 8°23 | 6°33 | n.a. | T 19 |
| W20 | 1 42 41 | 24°18'09 | 29°26 | 15°55 | 8°14 | 8°51 | 14°56 | 17°12 | 10°20 | 23°22 | 3°32 | 9°26 | 8°20 | 6°40 | n.a. | W20 |
| T 21 | 1 46 37 | 25°18'49 | 11♈55 | 17° 5 | 9°23 | 9°28 | 15° 3 | 17°12 | 10°18 | 23°21 | 3°31 | 9°15 | 8°17 | 6°47 | n.a. | T 21 |
| F 22 | 1 50 34 | 26°19'31 | 24°16 | 18°13 | 10°33 | 10° 6 | 15°11 | 17°12 | 10°16 | 23°21 | 3°30 | 9° 1 | 8°13 | 6°53 | n.a. | F 22 |
| S 23 | 1 54 31 | 27°20'15 | 6♉28 | 19°18 | 11°42 | 10°43 | 15°18 | 17°12 | 10°15 | 23°20 | 3°29 | 8°47 | 8°10 | 7° 0 | n.a. | S 23 |
| S 24 | 1 58 27 | 28°20'59 | 18°31 | 20°20 | 12°51 | 11°20 | 15°26 | 17°D12 | 10°13 | 23°19 | 3°28 | 8°33 | 8° 7 | 7° 7 | n.a. | S 24 |
| M25 | 2 2 24 | 29°21'46 | 0♊28 | 21°18 | 14° 0 | 11°57 | 15°34 | 17°12 | 10°11 | 23°18 | 3°27 | 8°20 | 8° 4 | 7°14 | n.a. | M25 |
| T 26 | 2 6 20 | 0♏22'34 | 12°19 | 22°12 | 15° 9 | 12°35 | 15°42 | 17°12 | 10° 9 | 23°17 | 3°26 | 8° 9 | 8° 1 | 7°20 | n.a. | T 26 |
| W27 | 2 10 17 | 1°23'23 | 24° 8 | 23° 2 | 16°18 | 13°12 | 15°50 | 17°12 | 10° 8 | 23°17 | 3°25 | 8° 1 | 7°58 | 7°27 | n.a. | W27 |
| T 28 | 2 14 13 | 2°24'15 | 5♋58 | 23°46 | 17°27 | 13°49 | 15°58 | 17°13 | 10° 6 | 23°16 | 3°24 | 7°56 | 7°54 | 7°34 | n.a. | T 28 |
| F 29 | 2 18 10 | 3°25'07 | 17°54 | 24°24 | 18°35 | 14°26 | 16° 7 | 17°13 | 10° 4 | 23°15 | 3°23 | 7°54 | 7°51 | 7°40 | n.a. | F 29 |
| S 30 | 2 22 6 | 4°26'01 | 29°59 | 24°55 | 19°44 | 15° 3 | 16°15 | 17°14 | 10° 2 | 23°14 | 3°22 | 7°53 | 7°48 | 7°47 | n.a. | S 30 |
| S 31 | 2 26 3 | 5♏26'57 | 12♌21 | 25♏19 | 20♐52 | 15♑40 | 16♑24 | 17♒14 | 10♊ 0 | 23♊13 | 3♊21 | 7♌53 | 7♌45 | 7♊54 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 2s 5 | 20n42 | 2s38 | 8s49 | 1s 8 | 18s27 | 1s45 | 13n54 | 1n20 | 23s53 | 0s51 | 17s37 | 2s 0 | 22n21 | 0n 4 | 22n38 | 0s55 | 15n 9 | 6s 6 | 17n44 | 18n 7 | 16n42 | | n.a. |
| S 2 | 2 29 | 20 16 | 1 39 | 9 29 | 1 14 | 18 51 | 1 48 | 13 41 | 1 20 | 23 53 | 0 51 | 17 38 | 2 0 | 22 21 | 0 4 | 22 38 | 0 55 | 15 9 | 6 6 | 17 44 | 18 8 | 16 44 | | n.a. |
| S 3 | 2 53 | 18 50 | 0 34 | 10 8 | 1 20 | 19 14 | 1 51 | 13 28 | 1 20 | 23 52 | 0 51 | 17 38 | 2 0 | 22 21 | 0 4 | 22 38 | 0 55 | 15 9 | 6 6 | 17 44 | 18 9 | 16 45 | | n.a. |
| M 4 | 3 17 | 16 25 | 0n34 | 10 47 | 1 26 | 19 37 | 1 54 | 13 15 | 1 21 | 23 52 | 0 51 | 17 39 | 2 0 | 22 21 | 0 4 | 22 38 | 0 55 | 15 8 | 6 6 | 17 44 | 18 9 | 16 47 | | n.a. |
| T 5 | 3 41 | 13 4 | 1 43 | 11 25 | 1 32 | 19 59 | 1 57 | 13 2 | 1 21 | 23 51 | 0 51 | 17 39 | 2 0 | 22 21 | 0 4 | 22 38 | 0 55 | 15 8 | 6 6 | 17 44 | 18 10 | 16 48 | | n.a. |
| W 6 | 4 5 | 8 56 | 2 48 | 12 3 | 1 38 | 20 21 | 1 59 | 12 49 | 1 21 | 23 51 | 0 51 | 17 40 | 2 0 | 22 21 | 0 4 | 22 38 | 0 55 | 15 8 | 6 6 | 17 45 | 18 11 | 16 50 | | n.a. |
| T 7 | 4 28 | 4 12 | 3 45 | 12 40 | 1 44 | 20 42 | 2 2 | 12 35 | 1 21 | 23 50 | 0 51 | 17 40 | 2 0 | 22 20 | 0 4 | 22 38 | 0 55 | 15 8 | 6 6 | 17 47 | 18 12 | 16 52 | | n.a. |
| F 8 | 4 52 | 0s54 | 4 28 | 13 16 | 1 50 | 21 2 | 2 5 | 12 22 | 1 21 | 23 50 | 0 51 | 17 41 | 1 59 | 22 20 | 0 4 | 22 38 | 0 55 | 15 8 | 6 6 | 17 50 | 18 13 | 16 53 | | n.a. |
| S 9 | 5 16 | 6 1 | 4 55 | 13 51 | 1 55 | 21 23 | 2 7 | 12 9 | 1 22 | 23 49 | 0 51 | 17 41 | 1 59 | 22 20 | 0 4 | 22 38 | 0 55 | 15 7 | 6 6 | 17 52 | 18 14 | 16 55 | | n.a. |
| S 10 | 5 40 | 10 50 | 5 3 | 14 26 | 2 0 | 21 42 | 2 10 | 11 55 | 1 22 | 23 49 | 0 51 | 17 41 | 1 59 | 22 20 | 0 4 | 22 38 | 0 55 | 15 7 | 6 6 | 17 55 | 18 14 | 16 56 | | n.a. |
| M11 | 6 3 | 14 59 | 4 50 | 15 0 | 2 5 | 22 1 | 2 13 | 11 42 | 1 22 | 23 48 | 0 51 | 17 42 | 1 59 | 22 20 | 0 4 | 22 37 | 0 55 | 15 7 | 6 6 | 17 58 | 18 15 | 16 58 | | n.a. |
| T 12 | 6 27 | 18 10 | 4 18 | 15 32 | 2 10 | 22 20 | 2 15 | 11 28 | 1 22 | 23 47 | 0 51 | 17 42 | 1 59 | 22 20 | 0 4 | 22 37 | 0 55 | 15 7 | 6 6 | 17 59 | 18 16 | 16 59 | | n.a. |
| W13 | 6 50 | 20 9 | 3 30 | 16 4 | 2 14 | 22 37 | 2 17 | 11 14 | 1 22 | 23 47 | 0 50 | 17 42 | 1 59 | 22 20 | 0 4 | 22 37 | 0 55 | 15 7 | 6 6 | 18 1 | 18 17 | 17 1 | | n.a. |
| T 14 | 7 14 | 20 49 | 2 30 | 16 35 | 2 18 | 22 55 | 2 20 | 11 1 | 1 22 | 23 46 | 0 50 | 17 42 | 1 59 | 22 19 | 0 4 | 22 37 | 0 55 | 15 6 | 6 6 | 18 1 | 18 18 | 17 2 | | n.a. |
| F 15 | 7 37 | 20 11 | 1 22 | 17 5 | 2 22 | 23 11 | 2 22 | 10 47 | 1 23 | 23 45 | 0 50 | 17 43 | 1 59 | 22 19 | 0 4 | 22 37 | 0 55 | 15 6 | 6 7 | 18 1 | 18 19 | 17 4 | | n.a. |
| S 16 | 8 0 | 18 23 | 0 11 | 17 33 | 2 25 | 23 27 | 2 24 | 10 33 | 1 23 | 23 44 | 0 50 | 17 43 | 1 58 | 22 19 | 0 4 | 22 37 | 0 55 | 15 6 | 6 7 | 18 1 | 18 19 | 17 5 | | n.a. |
| S 17 | 8 23 | 15 37 | 0s59 | 18 1 | 2 28 | 23 43 | 2 26 | 10 19 | 1 23 | 23 44 | 0 50 | 17 43 | 1 58 | 22 19 | 0 4 | 22 37 | 0 55 | 15 6 | 6 7 | 18 1 | 18 20 | 17 7 | | n.a. |
| M18 | 8 46 | 12 7 | 2 5 | 18 27 | 2 31 | 23 58 | 2 28 | 10 5 | 1 23 | 23 43 | 0 50 | 17 43 | 1 58 | 22 19 | 0 4 | 22 37 | 0 55 | 15 6 | 6 7 | 18 2 | 18 21 | 17 9 | | n.a. |
| T 19 | 9 9 | 8 5 | 3 3 | 18 52 | 2 33 | 24 12 | 2 30 | 9 51 | 1 23 | 23 42 | 0 50 | 17 43 | 1 58 | 22 18 | 0 4 | 22 37 | 0 55 | 15 5 | 6 7 | 18 3 | 18 22 | 17 10 | | n.a. |
| W20 | 9 31 | 3 45 | 3 51 | 19 15 | 2 35 | 24 25 | 2 32 | 9 37 | 1 23 | 23 41 | 0 50 | 17 43 | 1 58 | 22 18 | 0 4 | 22 37 | 0 55 | 15 5 | 6 7 | 18 5 | 18 23 | 17 12 | | n.a. |
| T 21 | 9 54 | 0n40 | 4 27 | 19 36 | 2 36 | 24 38 | 2 34 | 9 23 | 1 23 | 23 40 | 0 50 | 17 43 | 1 58 | 22 18 | 0 4 | 22 37 | 0 55 | 15 5 | 6 7 | 18 8 | 18 24 | 17 13 | | n.a. |
| F 22 | 10 16 | 5 1 | 4 50 | 19 56 | 2 36 | 24 50 | 2 36 | 9 9 | 1 24 | 23 39 | 0 50 | 17 43 | 1 58 | 22 18 | 0 4 | 22 37 | 0 55 | 15 5 | 6 7 | 18 12 | 18 25 | 17 15 | | n.a. |
| S 23 | 10 38 | 9 6 | 5 0 | 20 14 | 2 36 | 25 2 | 2 37 | 8 55 | 1 24 | 23 38 | 0 50 | 17 43 | 1 57 | 22 18 | 0 4 | 22 37 | 0 55 | 15 5 | 6 7 | 18 16 | 18 25 | 17 16 | | n.a. |
| S 24 | 11 0 | 12 48 | 4 55 | 20 31 | 2 35 | 25 13 | 2 39 | 8 41 | 1 24 | 23 37 | 0 50 | 17 43 | 1 57 | 22 17 | 0 4 | 22 37 | 0 55 | 15 4 | 6 7 | 18 19 | 18 26 | 17 18 | | n.a. |
| M25 | 11 22 | 15 56 | 4 38 | 20 45 | 2 33 | 25 23 | 2 40 | 8 27 | 1 24 | 23 36 | 0 50 | 17 43 | 1 57 | 22 17 | 0 4 | 22 37 | 0 55 | 15 4 | 6 7 | 18 23 | 18 27 | 17 19 | | n.a. |
| T 26 | 11 44 | 18 24 | 4 9 | 20 57 | 2 31 | 25 32 | 2 41 | 8 12 | 1 24 | 23 35 | 0 50 | 17 42 | 1 57 | 22 17 | 0 4 | 22 37 | 0 55 | 15 4 | 6 7 | 18 26 | 18 28 | 17 21 | | n.a. |
| W27 | 12 5 | 20 5 | 3 29 | 21 6 | 2 27 | 25 41 | 2 42 | 7 58 | 1 24 | 23 34 | 0 50 | 17 42 | 1 57 | 22 17 | 0 4 | 22 37 | 0 55 | 15 4 | 6 7 | 18 28 | 18 29 | 17 22 | | n.a. |
| T 28 | 12 26 | 20 54 | 2 40 | 21 13 | 2 22 | 25 49 | 2 44 | 7 44 | 1 24 | 23 33 | 0 50 | 17 42 | 1 57 | 22 16 | 0 4 | 22 37 | 0 55 | 15 4 | 6 7 | 18 29 | 18 29 | 17 24 | | n.a. |
| F 29 | 12 47 | 20 47 | 1 44 | 21 17 | 2 17 | 25 56 | 2 45 | 7 29 | 1 25 | 23 32 | 0 50 | 17 42 | 1 57 | 22 16 | 0 4 | 22 37 | 0 55 | 15 3 | 6 7 | 18 30 | 18 30 | 17 25 | | n.a. |
| S 30 | 13 8 | 19 42 | 0 42 | 21 18 | 2 10 | 26 3 | 2 45 | 7 15 | 1 25 | 23 31 | 0 50 | 17 41 | 1 56 | 22 16 | 0 4 | 22 37 | 0 55 | 15 3 | 6 7 | 18 30 | 18 31 | 17 27 | | n.a. |
| S 31 | 13s29 | 17n40 | 0n24 | 21s16 | 2s 2 | 26s 9 | 2s46 | 7n 1 | 1n25 | 23s30 | 0s50 | 17s41 | 1s56 | 22n15 | 0n 4 | 22n36 | 0s55 | 15n 3 | 6s 7 | 18n30 | 18n32 | 17n28 | | n.a. |

Julian Day Number = 1696859.5, Delta T = 03h07m36s
Ecliptic obliquity = 23°42'06, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°59'33, Lahiri = - 4°52'33 Julian Calendar 1 Oct. 68 BCE == Greg. Calendar 29 Sept. 068 BCE

The year -67 astronomical counting style corresponds to year 068 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 68 BCE
# geocentric

## NOVEMBER 68 BCE (-67) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 2 30 0 | 6♏27'54 | 25♌ 4 | 25♏35 | 22♐ 0 | 16♍18 | 16♑33 | 17♒15 | 9°R58 | 23°R12 | 3°R20 | 7°R53 | 7♌42 | 8♊ 1 | n.a. | M 1 |
| T 2 | 2 33 56 | 7°28'52 | 8♍13 | 25°R41 | 23° 8 | 16°55 | 16°42 | 17°16 | 9♊56 | 23♊11 | 3♊19 | 7♌50 | 7°38 | 8° 7 | n.a. | T 2 |
| W 3 | 2 37 53 | 8°29'52 | 21°51 | 25°37 | 24°16 | 17°32 | 16°51 | 17°17 | 9°54 | 23° 9 | 3°18 | 7°45 | 7°35 | 8°14 | n.a. | W 3 |
| T 4 | 2 41 49 | 9°30'53 | 5♎59 | 25°23 | 25°23 | 18° 9 | 17° 0 | 17°18 | 9°52 | 23° 8 | 3°17 | 7°38 | 7°32 | 8°21 | n.a. | T 4 |
| F 5 | 2 45 46 | 10°31'56 | 20°35 | 24°58 | 26°31 | 18°46 | 17°10 | 17°20 | 9°50 | 23° 7 | 3°16 | 7°27 | 7°29 | 8°27 | n.a. | F 5 |
| S 6 | 2 49 42 | 11°32'59 | 5♏33 | 24°22 | 27°38 | 19°23 | 17°19 | 17°21 | 9°47 | 23° 6 | 3°15 | 7°16 | 7°26 | 8°34 | n.a. | S 6 |
| S 7 | 2 53 39 | 12°34'04 | 20°44 | 23°35 | 28°45 | 20° 0 | 17°29 | 17°22 | 9°45 | 23° 5 | 3°14 | 7° 4 | 7°23 | 8°41 | n.a. | S 7 |
| M 8 | 2 57 35 | 13°35'09 | 5♐57 | 22°37 | 29°52 | 20°37 | 17°39 | 17°24 | 9°43 | 23° 4 | 3°13 | 6°53 | 7°19 | 8°47 | n.a. | M 8 |
| T 9 | 3 1 32 | 14°36'16 | 21° 1 | 21°30 | 0♑59 | 21°14 | 17°49 | 17°26 | 9°41 | 23° 2 | 3°12 | 6°44 | 7°16 | 8°54 | n.a. | T 9 |
| W10 | 3 5 29 | 15°37'23 | 5♑48 | 20°15 | 2° 5 | 21°51 | 17°59 | 17°27 | 9°38 | 23° 1 | 3°10 | 6°39 | 7°13 | 9° 1 | n.a. | W10 |
| T 11 | 3 9 25 | 16°38'31 | 20°12 | 18°55 | 3°12 | 22°28 | 18° 9 | 17°29 | 9°36 | 23° 0 | 3° 9 | 6°36 | 7°10 | 9° 8 | n.a. | T 11 |
| F 12 | 3 13 22 | 17°39'39 | 4♒11 | 17°32 | 4°18 | 23° 5 | 18°19 | 17°31 | 9°34 | 22°59 | 3° 8 | 6°D35 | 7° 7 | 9°14 | n.a. | F 12 |
| S 13 | 3 17 18 | 18°40'47 | 17°45 | 16°10 | 5°24 | 23°42 | 18°29 | 17°33 | 9°31 | 22°57 | 3° 7 | 6°R35 | 7° 4 | 9°21 | n.a. | S 13 |
| S 14 | 3 21 15 | 19°41'56 | 0♓57 | 14°50 | 6°29 | 24°18 | 18°40 | 17°36 | 9°29 | 22°56 | 3° 6 | 6°35 | 7° 0 | 9°28 | n.a. | S 14 |
| M15 | 3 25 11 | 20°43'06 | 13°50 | 13°36 | 7°35 | 24°55 | 18°51 | 17°38 | 9°27 | 22°55 | 3° 5 | 6°33 | 6°57 | 9°34 | n.a. | M15 |
| T 16 | 3 29 8 | 21°44'15 | 26°28 | 12°29 | 8°40 | 25°32 | 19° 1 | 17°40 | 9°24 | 22°53 | 3° 3 | 6°28 | 6°54 | 9°41 | n.a. | T 16 |
| W17 | 3 33 4 | 22°45'26 | 8♈53 | 11°32 | 9°44 | 26° 9 | 19°12 | 17°43 | 9°22 | 22°52 | 3° 2 | 6°20 | 6°51 | 9°48 | n.a. | W17 |
| T 18 | 3 37 1 | 23°46'36 | 21° 9 | 10°45 | 10°49 | 26°46 | 19°23 | 17°46 | 9°19 | 22°50 | 3° 1 | 6°10 | 6°48 | 9°54 | n.a. | T 18 |
| F 19 | 3 40 58 | 24°47'47 | 3♉16 | 10° 9 | 11°53 | 27°22 | 19°34 | 17°48 | 9°17 | 22°49 | 3° 0 | 5°57 | 6°44 | 10° 1 | n.a. | F 19 |
| S 20 | 3 44 54 | 25°48'58 | 15°18 | 9°44 | 12°57 | 27°59 | 19°45 | 17°51 | 9°14 | 22°47 | 2°59 | 5°44 | 6°41 | 10° 8 | n.a. | S 20 |
| S 21 | 3 48 51 | 26°50'10 | 27°14 | 9°29 | 14° 1 | 28°36 | 19°56 | 17°54 | 9°12 | 22°46 | 2°58 | 5°30 | 6°38 | 10°15 | n.a. | S 21 |
| M22 | 3 52 47 | 27°51'22 | 9♊ 7 | 9°D25 | 15° 4 | 29°12 | 20° 8 | 17°57 | 9° 9 | 22°44 | 2°56 | 5°17 | 6°35 | 10°21 | n.a. | M22 |
| T 23 | 3 56 44 | 28°52'35 | 20°57 | 9°31 | 16° 7 | 29°49 | 20°19 | 18° 0 | 9° 7 | 22°43 | 2°55 | 5° 7 | 6°32 | 10°28 | n.a. | T 23 |
| W24 | 4 0 40 | 29°53'48 | 2♋47 | 9°46 | 17°10 | 0♎25 | 20°31 | 18° 3 | 9° 4 | 22°41 | 2°54 | 4°59 | 6°29 | 10°35 | n.a. | W24 |
| T 25 | 4 4 37 | 0♐55'02 | 14°39 | 10° 8 | 18°12 | 1° 2 | 20°42 | 18° 7 | 9° 2 | 22°40 | 2°53 | 4°54 | 6°25 | 10°41 | n.a. | T 25 |
| F 26 | 4 8 33 | 1°56'16 | 26°36 | 10°39 | 19°14 | 1°39 | 20°54 | 18°10 | 8°59 | 22°38 | 2°52 | 4°52 | 6°22 | 10°48 | n.a. | F 26 |
| S 27 | 4 12 30 | 2°57'30 | 8♌42 | 11°15 | 20°15 | 2°15 | 21° 6 | 18°13 | 8°57 | 22°37 | 2°50 | 4°D52 | 6°19 | 10°55 | n.a. | S 27 |
| S 28 | 4 16 27 | 3°58'45 | 21° 1 | 11°58 | 21°17 | 2°52 | 21°18 | 18°17 | 8°54 | 22°35 | 2°49 | 4°53 | 6°16 | 11° 1 | n.a. | S 28 |
| M29 | 4 20 23 | 5° 0'01 | 3♍39 | 12°46 | 22°17 | 3°28 | 21°30 | 18°21 | 8°52 | 22°34 | 2°48 | 4°R53 | 6°13 | 11° 8 | n.a. | M29 |
| T 30 | 4 24 20 | 6♐ 1'16 | 16♍41 | 13♏39 | 23♑18 | 4♎ 5 | 21♑42 | 18♒24 | 8♊49 | 22♊32 | 2♊47 | 4♌53 | 6♌10 | 11♊15 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 13 s49 | 14n43 | 1n30 | 21 s10 | 1 s52 | 26 s14 | 2 s47 | 6n46 | 1n25 | 23 s29 | 0 s50 | 17 s41 | 1 s56 | 22n15 | 0n 4 | 22n36 | 0 s55 | 15n 3 | 6 s 7 | 18n30 | 18n33 | 17n30 | | n.a. |
| T 2 | 14 9 | 10 56 | 2 33 | 21 1 | 1 41 | 26 18 | 2 47 | 6 32 | 1 25 | 23 28 | 0 50 | 17 40 | 1 56 | 22 15 | 0 4 | 22 36 | 0 55 | 15 3 | 6 7 | 18 31 | 18 34 | 17 31 | | n.a. |
| W 3 | 14 29 | 6 29 | 3 30 | 20 48 | 1 28 | 26 22 | 2 48 | 6 17 | 1 25 | 23 27 | 0 49 | 17 40 | 1 56 | 22 15 | 0 4 | 22 36 | 0 55 | 15 2 | 6 7 | 18 32 | 18 34 | 17 33 | | n.a. |
| T 4 | 14 49 | 1 31 | 4 16 | 20 31 | 1 14 | 26 25 | 2 48 | 6 3 | 1 25 | 23 25 | 0 49 | 17 39 | 1 56 | 22 14 | 0 4 | 22 36 | 0 55 | 15 2 | 6 7 | 18 34 | 18 35 | 17 34 | | n.a. |
| F 5 | 15 9 | 3 s41 | 4 47 | 20 10 | 0 58 | 26 27 | 2 48 | 5 48 | 1 25 | 23 24 | 0 49 | 17 39 | 1 56 | 22 14 | 0 4 | 22 36 | 0 55 | 15 2 | 6 7 | 18 36 | 18 36 | 17 36 | | n.a. |
| S 6 | 15 28 | 8 48 | 5 0 | 19 44 | 0 41 | 26 29 | 2 48 | 5 33 | 1 26 | 23 23 | 0 49 | 17 38 | 1 55 | 22 14 | 0 4 | 22 36 | 0 55 | 15 2 | 6 7 | 18 40 | 18 37 | 17 37 | | n.a. |
| S 7 | 15 47 | 13 26 | 4 52 | 19 14 | 0 23 | 26 30 | 2 48 | 5 19 | 1 26 | 23 22 | 0 49 | 17 37 | 1 55 | 22 13 | 0 4 | 22 36 | 0 55 | 15 2 | 6 7 | 18 43 | 18 38 | 17 39 | | n.a. |
| M 8 | 16 5 | 17 13 | 4 23 | 18 41 | 0 3 | 26 30 | 2 48 | 5 4 | 1 26 | 23 20 | 0 49 | 17 37 | 1 55 | 22 13 | 0 4 | 22 36 | 0 55 | 15 1 | 6 7 | 18 45 | 18 39 | 17 40 | | n.a. |
| T 9 | 16 24 | 19 48 | 3 36 | 18 4 | 0n17 | 26 29 | 2 47 | 4 50 | 1 26 | 23 19 | 0 49 | 17 36 | 1 55 | 22 13 | 0 4 | 22 36 | 0 55 | 15 1 | 6 7 | 18 47 | 18 39 | 17 42 | | n.a. |
| W10 | 16 42 | 20 59 | 2 35 | 17 24 | 0 38 | 26 28 | 2 47 | 4 35 | 1 26 | 23 18 | 0 49 | 17 35 | 1 55 | 22 12 | 0 4 | 22 36 | 0 55 | 15 1 | 6 7 | 18 49 | 18 40 | 17 43 | | n.a. |
| T 11 | 17 0 | 20 45 | 1 26 | 16 43 | 0 58 | 26 26 | 2 46 | 4 20 | 1 26 | 23 16 | 0 49 | 17 35 | 1 55 | 22 12 | 0 4 | 22 36 | 0 55 | 15 1 | 6 7 | 18 50 | 18 41 | 17 45 | | n.a. |
| F 12 | 17 17 | 19 13 | 0 13 | 16 1 | 1 18 | 26 23 | 2 46 | 4 6 | 1 26 | 23 15 | 0 49 | 17 34 | 1 55 | 22 12 | 0 4 | 22 36 | 0 55 | 15 1 | 6 7 | 18 50 | 18 42 | 17 46 | | n.a. |
| S 13 | 17 34 | 16 37 | 0 s59 | 15 19 | 1 36 | 26 20 | 2 45 | 3 51 | 1 26 | 23 13 | 0 49 | 17 33 | 1 54 | 22 11 | 0 4 | 22 35 | 0 55 | 15 0 | 6 7 | 18 50 | 18 43 | 17 48 | | n.a. |
| S 14 | 17 51 | 13 12 | 2 5 | 14 40 | 1 53 | 26 16 | 2 44 | 3 36 | 1 26 | 23 12 | 0 49 | 17 32 | 1 54 | 22 11 | 0 4 | 22 35 | 0 55 | 15 0 | 6 7 | 18 50 | 18 43 | 17 49 | | n.a. |
| M15 | 18 8 | 9 15 | 3 4 | 14 3 | 2 8 | 26 11 | 2 42 | 3 22 | 1 26 | 23 10 | 0 49 | 17 32 | 1 54 | 22 11 | 0 4 | 22 35 | 0 55 | 15 0 | 6 7 | 18 50 | 18 44 | 17 50 | | n.a. |
| T 16 | 18 24 | 4 57 | 3 52 | 13 31 | 2 21 | 26 6 | 2 41 | 3 7 | 1 26 | 23 9 | 0 49 | 17 31 | 1 54 | 22 10 | 0 4 | 22 35 | 0 55 | 15 0 | 6 7 | 18 52 | 18 45 | 17 52 | | n.a. |
| W17 | 18 40 | 0 32 | 4 28 | 13 3 | 2 32 | 25 59 | 2 39 | 2 52 | 1 27 | 23 7 | 0 49 | 17 30 | 1 54 | 22 10 | 0 4 | 22 35 | 0 55 | 15 0 | 6 7 | 18 54 | 18 46 | 17 53 | | n.a. |
| T 18 | 18 55 | 3n51 | 4 51 | 12 41 | 2 40 | 25 53 | 2 38 | 2 37 | 1 27 | 23 6 | 0 49 | 17 29 | 1 54 | 22 10 | 0 4 | 22 35 | 0 55 | 14 59 | 6 7 | 18 56 | 18 47 | 17 55 | | n.a. |
| F 19 | 19 11 | 8 2 | 5 1 | 12 23 | 2 46 | 25 45 | 2 36 | 2 23 | 1 27 | 23 4 | 0 49 | 17 28 | 1 54 | 22 9 | 0 4 | 22 35 | 0 55 | 14 59 | 6 7 | 18 59 | 18 47 | 17 56 | | n.a. |
| S 20 | 19 25 | 11 52 | 4 57 | 12 12 | 2 50 | 25 37 | 2 34 | 2 8 | 1 27 | 23 2 | 0 49 | 17 27 | 1 53 | 22 9 | 0 4 | 22 35 | 0 55 | 14 59 | 6 7 | 19 3 | 18 48 | 17 58 | | n.a. |
| S 21 | 19 40 | 15 13 | 4 40 | 12 5 | 2 53 | 25 28 | 2 32 | 1 53 | 1 27 | 23 1 | 0 49 | 17 26 | 1 53 | 22 8 | 0 4 | 22 35 | 0 55 | 14 59 | 6 7 | 19 6 | 18 49 | 17 59 | | n.a. |
| M22 | 19 54 | 17 55 | 4 11 | 12 3 | 2 53 | 25 19 | 2 30 | 1 39 | 1 27 | 22 59 | 0 49 | 17 25 | 1 53 | 22 8 | 0 4 | 22 35 | 0 55 | 14 59 | 6 7 | 19 9 | 18 50 | 18 1 | | n.a. |
| T 23 | 20 8 | 19 53 | 3 31 | 12 6 | 2 53 | 25 9 | 2 27 | 1 24 | 1 27 | 22 57 | 0 49 | 17 24 | 1 53 | 22 8 | 0 4 | 22 35 | 0 55 | 14 58 | 6 7 | 19 12 | 18 51 | 18 2 | | n.a. |
| W24 | 20 21 | 20 58 | 2 42 | 12 12 | 2 51 | 24 58 | 2 24 | 1 9 | 1 27 | 22 55 | 0 49 | 17 22 | 1 53 | 22 7 | 0 4 | 22 35 | 0 55 | 14 58 | 6 7 | 19 14 | 18 51 | 18 3 | | n.a. |
| T 25 | 20 34 | 21 8 | 1 46 | 12 22 | 2 47 | 24 47 | 2 22 | 0 55 | 1 27 | 22 54 | 0 49 | 17 21 | 1 53 | 22 7 | 0 4 | 22 34 | 0 55 | 14 58 | 6 7 | 19 15 | 18 52 | 18 5 | | n.a. |
| F 26 | 20 47 | 20 21 | 0 44 | 12 36 | 2 43 | 24 36 | 2 19 | 0 40 | 1 27 | 22 52 | 0 49 | 17 20 | 1 53 | 22 7 | 0 4 | 22 34 | 0 55 | 14 58 | 6 7 | 19 15 | 18 53 | 18 6 | | n.a. |
| S 27 | 20 59 | 18 37 | 0n20 | 12 52 | 2 38 | 24 23 | 2 16 | 0 25 | 1 27 | 22 50 | 0 49 | 17 19 | 1 53 | 22 6 | 0 4 | 22 34 | 0 55 | 14 58 | 6 7 | 19 15 | 18 54 | 18 8 | | n.a. |
| S 28 | 21 11 | 16 0 | 1 25 | 13 10 | 2 33 | 24 10 | 2 12 | 0 11 | 1 27 | 22 48 | 0 49 | 17 18 | 1 52 | 22 6 | 0 4 | 22 34 | 0 55 | 14 57 | 6 7 | 19 15 | 18 55 | 18 9 | | n.a. |
| M29 | 21 22 | 12 34 | 2 28 | 13 31 | 2 27 | 23 57 | 2 9 | 0 s 4 | 1 27 | 22 46 | 0 49 | 17 16 | 1 52 | 22 5 | 0 4 | 22 34 | 0 55 | 14 57 | 6 6 | 19 15 | 18 55 | 18 11 | | n.a. |
| T 30 | 21 s33 | 8n27 | 3n24 | 13 s53 | 2n20 | 23 s43 | 2 s 5 | 0 s18 | 1n27 | 22 s44 | 0 s49 | 17 s15 | 1 s52 | 22n 5 | 0n 4 | 22n34 | 0 s55 | 14n57 | 6 s 6 | 19n15 | 18n56 | 18n12 | | n.a. |

Julian Day Number = 1696890.5, Delta T = 03h07m35s
Ecliptic obliquity = 23°42'06, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°59'29, Lahiri = - 4°52'28 Julian Calendar 1 Nov. 68 BCE == Greg. Calendar 30 Oct. 068 BCE

The year -67 astronomical counting style corresponds to year 068 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 68 BCE
# geocentric

## DECEMBER 68 BCE (-67) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 4 28 16 | 7♐ 2'32 | 0♎10 | 14♏35 | 24♑17 | 4♎41 | 21♑54 | 18♒28 | 8°R46 | 22°R30 | 2°R45 | 4°R50 | 6♌ 6 | 11♊22 | n.a. | W 1 |
| T 2 | 4 32 13 | 8° 3'49 | 14° 8 | 15°36 | 25°17 | 5°17 | 22° 6 | 18°32 | 8♊44 | 22♊29 | 2♊44 | 4♌45 | 6° 3 | 11°28 | n.a. | T 2 |
| F 3 | 4 36 9 | 9° 5'05 | 28°36 | 16°39 | 26°16 | 5°54 | 22°18 | 18°36 | 8°41 | 22°27 | 2°43 | 4°38 | 6° 0 | 11°35 | n.a. | F 3 |
| S 4 | 4 40 6 | 10° 6'22 | 13♏30 | 17°46 | 27°14 | 6°30 | 22°31 | 18°40 | 8°39 | 22°25 | 2°42 | 4°30 | 5°57 | 11°42 | n.a. | S 4 |
| S 5 | 4 44 2 | 11° 7'39 | 28°41 | 18°55 | 28°12 | 7° 6 | 22°43 | 18°45 | 8°36 | 22°24 | 2°41 | 4°21 | 5°54 | 11°48 | n.a. | S 5 |
| M 6 | 4 47 59 | 12° 8'56 | 14♐ 1 | 20° 6 | 29°10 | 7°42 | 22°56 | 18°49 | 8°33 | 22°22 | 2°39 | 4°13 | 5°50 | 11°55 | n.a. | M 6 |
| T 7 | 4 51 56 | 13°10'12 | 29°18 | 21°19 | 0♒ 7 | 8°19 | 23° 9 | 18°53 | 8°31 | 22°20 | 2°38 | 4° 7 | 5°47 | 12° 2 | n.a. | T 7 |
| W 8 | 4 55 52 | 14°11'29 | 14♑20 | 22°34 | 1° 3 | 8°55 | 23°21 | 18°58 | 8°28 | 22°19 | 2°37 | 4° 3 | 5°44 | 12° 8 | n.a. | W 8 |
| T 9 | 4 59 49 | 15°12'45 | 29° 1 | 23°51 | 1°59 | 9°31 | 23°34 | 19° 2 | 8°26 | 22°17 | 2°36 | 4°D 1 | 5°41 | 12°15 | n.a. | T 9 |
| F 10 | 5 3 45 | 16°14'00 | 13♒14 | 25° 9 | 2°54 | 10° 7 | 23°47 | 19° 7 | 8°23 | 22°15 | 2°35 | 4° 1 | 5°38 | 12°22 | n.a. | F 10 |
| S 11 | 5 7 42 | 17°15'15 | 27° 0 | 26°29 | 3°48 | 10°43 | 24° 0 | 19°12 | 8°21 | 22°14 | 2°34 | 4° 2 | 5°35 | 12°29 | n.a. | S 11 |
| S 12 | 5 11 38 | 18°16'29 | 10♓20 | 27°49 | 4°42 | 11°19 | 24°13 | 19°16 | 8°18 | 22°12 | 2°32 | 4° 4 | 5°31 | 12°35 | n.a. | S 12 |
| M13 | 5 15 35 | 19°17'42 | 23°15 | 29°11 | 5°35 | 11°55 | 24°26 | 19°21 | 8°16 | 22°10 | 2°31 | 4°R 4 | 5°28 | 12°42 | n.a. | M13 |
| T 14 | 5 19 32 | 20°18'55 | 5♈51 | 0♐34 | 6°28 | 12°31 | 24°39 | 19°26 | 8°13 | 22° 9 | 2°30 | 4° 2 | 5°25 | 12°49 | n.a. | T 14 |
| W15 | 5 23 28 | 21°20'07 | 18°10 | 1°58 | 7°19 | 13° 7 | 24°52 | 19°31 | 8°10 | 22° 7 | 2°29 | 3°59 | 5°22 | 12°55 | n.a. | W15 |
| T 16 | 5 27 25 | 22°21'18 | 0♉19 | 3°22 | 8°10 | 13°43 | 25° 5 | 19°36 | 8° 8 | 22° 5 | 2°28 | 3°54 | 5°19 | 13° 2 | n.a. | T 16 |
| F 17 | 5 31 21 | 23°22'28 | 12°18 | 4°48 | 9° 0 | 14°18 | 25°19 | 19°42 | 8° 6 | 22° 3 | 2°27 | 3°47 | 5°16 | 13° 9 | n.a. | F 17 |
| S 18 | 5 35 18 | 24°23'37 | 24°13 | 6°14 | 9°49 | 14°54 | 25°32 | 19°47 | 8° 3 | 22° 2 | 2°26 | 3°39 | 5°12 | 13°15 | n.a. | S 18 |
| S 19 | 5 39 14 | 25°24'46 | 6♊ 4 | 7°41 | 10°38 | 15°30 | 25°45 | 19°52 | 8° 1 | 22° 0 | 2°25 | 3°31 | 5° 9 | 13°22 | n.a. | S 19 |
| M20 | 5 43 11 | 26°25'54 | 17°55 | 9° 9 | 11°25 | 16° 5 | 25°59 | 19°57 | 7°58 | 21°58 | 2°23 | 3°24 | 5° 6 | 13°29 | n.a. | M20 |
| T 21 | 5 47 7 | 27°27'01 | 29°47 | 10°37 | 12°12 | 16°41 | 26°12 | 20° 3 | 7°56 | 21°57 | 2°22 | 3°18 | 5° 3 | 13°36 | n.a. | T 21 |
| W22 | 5 51 4 | 28°28'08 | 11♋41 | 12° 6 | 12°57 | 17°16 | 26°26 | 20° 8 | 7°53 | 21°55 | 2°21 | 3°14 | 5° 0 | 13°42 | n.a. | W22 |
| T 23 | 5 55 1 | 29°29'14 | 23°39 | 13°36 | 13°41 | 17°52 | 26°39 | 20°14 | 7°51 | 21°53 | 2°20 | 3°12 | 4°56 | 13°49 | n.a. | T 23 |
| F 24 | 5 58 57 | 0♑30'19 | 5♌44 | 15° 6 | 14°25 | 18°27 | 26°53 | 20°20 | 7°49 | 21°52 | 2°19 | 3°D12 | 4°53 | 13°56 | n.a. | F 24 |
| S 25 | 6 2 54 | 1°31'23 | 17°58 | 16°37 | 15° 7 | 19° 3 | 27° 7 | 20°25 | 7°46 | 21°50 | 2°18 | 3°12 | 4°50 | 14° 2 | n.a. | S 25 |
| S 26 | 6 6 50 | 2°32'26 | 0♍24 | 18° 8 | 15°48 | 19°38 | 27°20 | 20°31 | 7°44 | 21°48 | 2°17 | 3°14 | 4°47 | 14° 9 | n.a. | S 26 |
| M27 | 6 10 47 | 3°33'29 | 13° 5 | 19°41 | 16°28 | 20°14 | 27°34 | 20°37 | 7°42 | 21°47 | 2°16 | 3°16 | 4°44 | 14°16 | n.a. | M27 |
| T 28 | 6 14 43 | 4°34'31 | 26° 5 | 21°13 | 17° 6 | 20°49 | 27°48 | 20°43 | 7°40 | 21°45 | 2°15 | 3°17 | 4°41 | 14°22 | n.a. | T 28 |
| W29 | 6 18 40 | 5°35'33 | 9♎28 | 22°47 | 17°44 | 21°24 | 28° 2 | 20°49 | 7°37 | 21°43 | 2°14 | 3°R17 | 4°37 | 14°29 | n.a. | W29 |
| T 30 | 6 22 36 | 6°36'33 | 23°15 | 24°21 | 18°20 | 21°59 | 28°16 | 20°55 | 7°35 | 21°42 | 2°13 | 3°16 | 4°34 | 14°36 | n.a. | T 30 |
| F 31 | 6 26 33 | 7♑37'33 | 7♏27 | 25♐56 | 18♒54 | 22♎34 | 28♑30 | 21♒ 1 | 7♊33 | 21♊40 | 2♊12 | 3♌14 | 4♌31 | 14♊42 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| W 1 | 21s43 | 3n47 | 4n12 | 14s16 | 2n13 | 23s29 | 2s 1 | 0s33 | 1n27 | 22s42 | 0s49 | 17s14 | 1s52 | 22n 5 | 0n 4 | 22n34 | 0s55 | 14n57 | 6s 6 | 19n16 | 18n57 | 18n13 | | | n.a. |
| T 2 | 21 54 | 1s14 | 4 46 | 14 41 | 2 6 | 23 14 | 1 57 | 0 47 | 1 27 | 22 40 | 0 49 | 17 12 | 1 52 | 22 4 | 0 4 | 22 34 | 0 55 | 14 57 | 6 6 | 19 17 | 18 58 | 18 15 | | | n.a. |
| F 3 | 22 3 | 6 22 | 5 4 | 15 7 | 1 58 | 22 58 | 1 53 | 1 2 | 1 27 | 22 38 | 0 49 | 17 11 | 1 52 | 22 4 | 0 4 | 22 34 | 0 55 | 14 57 | 6 6 | 19 19 | 18 59 | 18 16 | | | n.a. |
| S 4 | 22 13 | 11 16 | 5 2 | 15 33 | 1 50 | 22 43 | 1 48 | 1 17 | 1 27 | 22 36 | 0 49 | 17 10 | 1 52 | 22 3 | 0 4 | 22 34 | 0 55 | 14 56 | 6 6 | 19 21 | 18 59 | 18 18 | | | n.a. |
| S 5 | 22 21 | 15 33 | 4 39 | 16 0 | 1 42 | 22 26 | 1 44 | 1 31 | 1 27 | 22 34 | 0 49 | 17 8 | 1 52 | 22 3 | 0 4 | 22 34 | 0 55 | 14 56 | 6 6 | 19 23 | 19 0 | 18 19 | | | n.a. |
| M 6 | 22 30 | 18 50 | 3 56 | 16 27 | 1 34 | 22 10 | 1 39 | 1 45 | 1 27 | 22 32 | 0 49 | 17 7 | 1 51 | 22 3 | 0 4 | 22 34 | 0 55 | 14 56 | 6 6 | 19 25 | 19 1 | 18 20 | | | n.a. |
| T 7 | 22 38 | 20 46 | 2 56 | 16 54 | 1 26 | 21 53 | 1 34 | 2 0 | 1 27 | 22 30 | 0 49 | 17 5 | 1 51 | 22 2 | 0 4 | 22 33 | 0 55 | 14 56 | 6 6 | 19 26 | 19 2 | 18 22 | | | n.a. |
| W 8 | 22 45 | 21 12 | 1 44 | 17 21 | 1 18 | 21 35 | 1 29 | 2 14 | 1 27 | 22 27 | 0 49 | 17 4 | 1 51 | 22 2 | 0 4 | 22 33 | 0 55 | 14 56 | 6 6 | 19 27 | 19 3 | 18 23 | | | n.a. |
| T 9 | 22 52 | 20 8 | 0 27 | 17 49 | 1 10 | 21 17 | 1 23 | 2 29 | 1 27 | 22 25 | 0 49 | 17 2 | 1 51 | 22 1 | 0 4 | 22 33 | 0 55 | 14 56 | 6 6 | 19 28 | 19 3 | 18 25 | | | n.a. |
| F 10 | 22 59 | 17 49 | 0s50 | 18 16 | 1 2 | 20 59 | 1 18 | 2 43 | 1 27 | 22 23 | 0 49 | 17 0 | 1 51 | 22 1 | 0 4 | 22 33 | 0 55 | 14 56 | 6 6 | 19 28 | 19 4 | 18 26 | | | n.a. |
| S 11 | 23 5 | 14 32 | 2 1 | 18 43 | 0 54 | 20 40 | 1 12 | 2 57 | 1 27 | 22 21 | 0 49 | 16 59 | 1 51 | 22 1 | 0 4 | 22 33 | 0 55 | 14 55 | 6 6 | 19 27 | 19 5 | 18 27 | | | n.a. |
| S 12 | 23 11 | 10 36 | 3 3 | 19 9 | 0 46 | 20 22 | 1 6 | 3 11 | 1 27 | 22 18 | 0 49 | 16 57 | 1 51 | 22 0 | 0 4 | 22 33 | 0 55 | 14 55 | 6 6 | 19 27 | 19 6 | 18 29 | | | n.a. |
| M13 | 23 16 | 6 17 | 3 55 | 19 35 | 0 38 | 20 2 | 0 59 | 3 26 | 1 27 | 22 16 | 0 49 | 16 56 | 1 51 | 22 0 | 0 4 | 22 33 | 0 55 | 14 55 | 6 5 | 19 27 | 19 7 | 18 30 | | | n.a. |
| T 14 | 23 21 | 1 49 | 4 33 | 20 1 | 0 30 | 19 43 | 0 53 | 3 40 | 1 27 | 22 14 | 0 49 | 16 54 | 1 50 | 21 59 | 0 4 | 22 33 | 0 55 | 14 55 | 6 5 | 19 27 | 19 7 | 18 31 | | | n.a. |
| W15 | 23 25 | 2n37 | 4 58 | 20 26 | 0 22 | 19 23 | 0 46 | 3 54 | 1 27 | 22 11 | 0 49 | 16 52 | 1 50 | 21 59 | 0 4 | 22 33 | 0 55 | 14 55 | 6 5 | 19 28 | 19 8 | 18 33 | | | n.a. |
| T 16 | 23 29 | 6 53 | 5 9 | 20 50 | 0 14 | 19 3 | 0 39 | 4 8 | 1 27 | 22 9 | 0 49 | 16 51 | 1 50 | 21 59 | 0 4 | 22 33 | 0 55 | 14 55 | 6 5 | 19 30 | 19 9 | 18 34 | | | n.a. |
| F 17 | 23 32 | 10 51 | 5 6 | 21 13 | 0 6 | 18 43 | 0 32 | 4 22 | 1 27 | 22 7 | 0 49 | 16 49 | 1 50 | 21 58 | 0 4 | 22 33 | 0 55 | 14 55 | 6 5 | 19 31 | 19 10 | 18 36 | | | n.a. |
| S 18 | 23 35 | 14 21 | 4 50 | 21 36 | 0s 1 | 18 23 | 0 25 | 4 36 | 1 27 | 22 4 | 0 49 | 16 47 | 1 50 | 21 58 | 0 4 | 22 32 | 0 55 | 14 55 | 6 5 | 19 33 | 19 10 | 18 37 | | | n.a. |
| S 19 | 23 37 | 17 16 | 4 21 | 21 58 | 0 8 | 18 2 | 0 17 | 4 50 | 1 27 | 22 2 | 0 49 | 16 45 | 1 50 | 21 57 | 0 4 | 22 32 | 0 55 | 14 54 | 6 5 | 19 35 | 19 11 | 18 38 | | | n.a. |
| M20 | 23 39 | 19 28 | 3 42 | 22 19 | 0 16 | 17 42 | 0 9 | 5 4 | 1 27 | 21 59 | 0 49 | 16 43 | 1 50 | 21 57 | 0 4 | 22 32 | 0 55 | 14 54 | 6 5 | 19 36 | 19 12 | 18 40 | | | n.a. |
| T 21 | 23 41 | 20 50 | 2 52 | 22 40 | 0 23 | 17 21 | 0 1 | 5 18 | 1 27 | 21 56 | 0 49 | 16 42 | 1 50 | 21 57 | 0 4 | 22 32 | 0 55 | 14 54 | 6 5 | 19 38 | 19 13 | 18 41 | | | n.a. |
| W22 | 23 42 | 21 17 | 1 55 | 22 59 | 0 30 | 17 0 | 0n 7 | 5 32 | 1 26 | 21 54 | 0 49 | 16 40 | 1 50 | 21 56 | 0 4 | 22 32 | 0 55 | 14 54 | 6 5 | 19 39 | 19 14 | 18 42 | | | n.a. |
| T 23 | 23 42 | 20 45 | 0 52 | 23 17 | 0 36 | 16 39 | 0 15 | 5 45 | 1 26 | 21 51 | 0 49 | 16 38 | 1 50 | 21 56 | 0 4 | 22 32 | 0 55 | 14 54 | 6 4 | 19 39 | 19 14 | 18 44 | | | n.a. |
| F 24 | 23 42 | 19 16 | 0n14 | 23 34 | 0 43 | 16 18 | 0 24 | 5 59 | 1 26 | 21 49 | 0 49 | 16 36 | 1 50 | 21 56 | 0 5 | 22 32 | 0 55 | 14 54 | 6 4 | 19 39 | 19 15 | 18 45 | | | n.a. |
| S 25 | 23 42 | 16 53 | 1 20 | 23 50 | 0 49 | 15 57 | 0 33 | 6 13 | 1 26 | 21 46 | 0 49 | 16 34 | 1 49 | 21 55 | 0 5 | 22 32 | 0 55 | 14 54 | 6 4 | 19 39 | 19 16 | 18 46 | | | n.a. |
| S 26 | 23 41 | 13 41 | 2 24 | 24 5 | 0 56 | 15 36 | 0 42 | 6 26 | 1 26 | 21 43 | 0 49 | 16 32 | 1 49 | 21 55 | 0 5 | 22 32 | 0 55 | 14 54 | 6 4 | 19 39 | 19 17 | 18 48 | | | n.a. |
| M27 | 23 39 | 9 49 | 3 22 | 24 19 | 1 2 | 15 15 | 0 52 | 6 40 | 1 26 | 21 41 | 0 49 | 16 30 | 1 49 | 21 54 | 0 5 | 22 32 | 0 55 | 14 54 | 6 4 | 19 38 | 19 17 | 18 49 | | | n.a. |
| T 28 | 23 37 | 5 24 | 4 11 | 24 32 | 1 7 | 14 54 | 1 1 | 6 53 | 1 26 | 21 38 | 0 49 | 16 28 | 1 49 | 21 54 | 0 5 | 22 32 | 0 55 | 14 54 | 6 4 | 19 38 | 19 18 | 18 50 | | | n.a. |
| W29 | 23 35 | 0 37 | 4 48 | 24 43 | 1 13 | 14 33 | 1 11 | 7 7 | 1 26 | 21 35 | 0 49 | 16 26 | 1 49 | 21 54 | 0 5 | 22 31 | 0 55 | 14 54 | 6 4 | 19 38 | 19 19 | 18 52 | | | n.a. |
| T 30 | 23 32 | 4s20 | 5 10 | 24 53 | 1 18 | 14 12 | 1 22 | 7 20 | 1 26 | 21 32 | 0 49 | 16 24 | 1 49 | 21 53 | 0 5 | 22 31 | 0 55 | 14 54 | 6 4 | 19 38 | 19 20 | 18 53 | | | n.a. |
| F 31 | 23s29 | 9s12 | 5n13 | 25s 1 | 1s23 | 13s52 | 1n32 | 7s33 | 1n25 | 21s29 | 0s49 | 16s22 | 1s49 | 21n53 | 0n 5 | 22n31 | 0s55 | 14n53 | 6s 3 | 19n39 | 19n21 | 18n54 | | | n.a. |

Julian Day Number = 1696920.5, Delta T = 03h07m34s
Ecliptic obliquity = 23°42'06, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°59'25, Lahiri = - 4°52'24 Julian Calendar 1 Dec. 68 BCE == Greg. Calendar 29 Nov. 068 BCE

The year -67 astronomical counting style corresponds to year 068 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 67 BCE
# geocentric

## JANUARY 67 BCE (-66) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 30 30 | 8♑38'32 | 22♏ 2 | 27♐31 | 19♒27 | 23♎ 9 | 28♑44 | 21♒ 7 | 7°R31 | 21°R38 | 2°R11 | 3°R11 | 4♌28 | 14♊49 | n.a. | S 1 |
| S 2 | 6 34 26 | 9°39'30 | 6♐56 | 29° 7 | 19°59 | 23°44 | 28°58 | 21°13 | 7♊29 | 21♊37 | 2♊10 | 3♌ 8 | 4°25 | 14°56 | n.a. | S 2 |
| M 3 | 6 38 23 | 10°40'27 | 22° 2 | 0♑44 | 20°29 | 24°19 | 29°12 | 21°20 | 7°27 | 21°35 | 2° 9 | 3° 4 | 4°22 | 15° 3 | n.a. | M 3 |
| T 4 | 6 42 19 | 11°41'24 | 7♑11 | 2°22 | 20°57 | 24°54 | 29°26 | 21°26 | 7°25 | 21°34 | 2° 8 | 3° 2 | 4°18 | 15° 9 | n.a. | T 4 |
| W 5 | 6 46 16 | 12°42'18 | 22°12 | 4° 0 | 21°24 | 25°29 | 29°40 | 21°32 | 7°23 | 21°32 | 2° 8 | 3° 1 | 4°15 | 15°16 | n.a. | W 5 |
| T 6 | 6 50 12 | 13°43'12 | 6♒57 | 5°39 | 21°49 | 26° 3 | 29°54 | 21°39 | 7°21 | 21°31 | 2° 7 | 3°D 0 | 4°12 | 15°23 | n.a. | T 6 |
| F 7 | 6 54 9 | 14°44'04 | 21°21 | 7°19 | 22°12 | 26°38 | 0♒ 8 | 21°45 | 7°19 | 21°29 | 2° 6 | 3° 1 | 4° 9 | 15°29 | n.a. | F 7 |
| S 8 | 6 58 6 | 15°44'54 | 5♓18 | 8°59 | 22°33 | 27°12 | 0°23 | 21°52 | 7°17 | 21°27 | 2° 5 | 3° 2 | 4° 6 | 15°36 | n.a. | S 8 |
| S 9 | 7 2 2 | 16°45'43 | 18°47 | 10°40 | 22°53 | 27°47 | 0°37 | 21°58 | 7°15 | 21°26 | 2° 4 | 3° 4 | 4° 2 | 15°43 | n.a. | S 9 |
| M10 | 7 5 59 | 17°46'30 | 1♈51 | 12°22 | 23°10 | 28°21 | 0°51 | 22° 5 | 7°13 | 21°24 | 2° 3 | 3° 5 | 3°59 | 15°49 | n.a. | M10 |
| T 11 | 7 9 55 | 18°47'16 | 14°33 | 14° 5 | 23°25 | 28°56 | 1° 5 | 22°11 | 7°12 | 21°23 | 2° 3 | 3°R 5 | 3°56 | 15°56 | n.a. | T 11 |
| W12 | 7 13 52 | 19°47'59 | 26°55 | 15°49 | 23°38 | 29°30 | 1°20 | 22°18 | 7°10 | 21°22 | 2° 2 | 3° 5 | 3°53 | 16° 3 | n.a. | W12 |
| T 13 | 7 17 48 | 20°48'41 | 9♉ 2 | 17°33 | 23°49 | 0♏ 4 | 1°34 | 22°25 | 7° 8 | 21°20 | 2° 1 | 3° 4 | 3°50 | 16° 9 | n.a. | T 13 |
| F 14 | 7 21 45 | 21°49'21 | 21° 0 | 19°18 | 23°57 | 0°38 | 1°48 | 22°32 | 7° 7 | 21°19 | 2° 0 | 3° 3 | 3°47 | 16°16 | n.a. | F 14 |
| S 15 | 7 25 41 | 22°50'00 | 2♊52 | 21° 5 | 24° 3 | 1°12 | 2° 3 | 22°39 | 7° 5 | 21°17 | 2° 0 | 3° 2 | 3°43 | 16°23 | n.a. | S 15 |
| S 16 | 7 29 38 | 23°50'36 | 14°41 | 22°52 | 24° 7 | 1°46 | 2°17 | 22°45 | 7° 3 | 21°16 | 1°59 | 3° 0 | 3°40 | 16°29 | n.a. | S 16 |
| M17 | 7 33 35 | 24°51'11 | 26°32 | 24°39 | 24°R 8 | 2°20 | 2°31 | 22°52 | 7° 2 | 21°14 | 1°58 | 2°59 | 3°37 | 16°36 | n.a. | M17 |
| T 18 | 7 37 31 | 25°51'44 | 8♋27 | 26°28 | 24° 7 | 2°54 | 2°46 | 22°59 | 7° 0 | 21°13 | 1°58 | 2°58 | 3°34 | 16°43 | n.a. | T 18 |
| W19 | 7 41 28 | 26°52'16 | 20°28 | 28°17 | 24° 3 | 3°27 | 3° 0 | 23° 6 | 6°59 | 21°12 | 1°57 | 2°58 | 3°31 | 16°50 | n.a. | W19 |
| T 20 | 7 45 24 | 27°52'45 | 2♌37 | 0♒ 7 | 23°57 | 4° 1 | 3°14 | 23°13 | 6°58 | 21°11 | 1°56 | 2°D57 | 3°28 | 16°56 | n.a. | T 20 |
| F 21 | 7 49 21 | 28°53'13 | 14°56 | 1°58 | 23°48 | 4°34 | 3°29 | 23°20 | 6°56 | 21° 9 | 1°56 | 2°58 | 3°24 | 17° 3 | n.a. | F 21 |
| S 22 | 7 53 17 | 29°53'40 | 27°25 | 3°50 | 23°36 | 5° 8 | 3°43 | 23°27 | 6°55 | 21° 8 | 1°55 | 2°58 | 3°21 | 17°10 | n.a. | S 22 |
| S 23 | 7 57 14 | 0♒54'04 | 10♍ 7 | 5°42 | 23°22 | 5°41 | 3°58 | 23°34 | 6°54 | 21° 7 | 1°55 | 2°58 | 3°18 | 17°16 | n.a. | S 23 |
| M24 | 8 1 10 | 1°54'27 | 23° 3 | 7°35 | 23° 6 | 6°14 | 4°12 | 23°42 | 6°53 | 21° 6 | 1°54 | 2°58 | 3°15 | 17°23 | n.a. | M24 |
| T 25 | 8 5 7 | 2°54'49 | 6♎14 | 9°28 | 22°47 | 6°48 | 4°27 | 23°49 | 6°52 | 21° 4 | 1°54 | 2°R58 | 3°12 | 17°30 | n.a. | T 25 |
| W26 | 8 9 3 | 3°55'08 | 19°41 | 11°21 | 22°26 | 7°21 | 4°41 | 23°56 | 6°50 | 21° 3 | 1°53 | 2°58 | 3° 8 | 17°36 | n.a. | W26 |
| T 27 | 8 13 0 | 4°55'27 | 3♏25 | 13°14 | 22° 2 | 7°54 | 4°56 | 24° 3 | 6°49 | 21° 2 | 1°53 | 2°D58 | 3° 5 | 17°43 | n.a. | T 27 |
| F 28 | 8 16 57 | 5°55'44 | 17°26 | 15° 7 | 21°37 | 8°26 | 5°10 | 24°10 | 6°48 | 21° 1 | 1°52 | 2°58 | 3° 2 | 17°50 | n.a. | F 28 |
| S 29 | 8 20 53 | 6°55'59 | 1♐42 | 17° 0 | 21° 9 | 8°59 | 5°24 | 24°18 | 6°47 | 21° 0 | 1°52 | 2°59 | 2°59 | 17°56 | n.a. | S 29 |
| S 30 | 8 24 50 | 7°56'13 | 16°13 | 18°53 | 20°40 | 9°32 | 5°39 | 24°25 | 6°47 | 20°59 | 1°51 | 2°59 | 2°56 | 18° 3 | n.a. | S 30 |
| M31 | 8 28 46 | 8♒56'25 | 0♑53 | 20♒44 | 20♒ 8 | 10♏ 4 | 5♒53 | 24♒32 | 6♊46 | 20♊58 | 1♊51 | 2♌59 | 2♌53 | 18♊10 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23s25 | 13s41 | 4n58 | 25s 9 | 1s28 | 13s31 | 1n43 | 7s47 | 1n25 | 21s27 | 0s49 | 16s20 | 1s49 | 21n53 | 0n 5 | 22n31 | 0s55 | 14n53 | 6s 3 | 19n40 | 19n21 | 18n56 | | n.a. |
| S 2 | 23 21 | 17 24 | 4 22 | 25 14 | 1 33 | 13 11 | 1 54 | 8 0 | 1 25 | 21 24 | 0 49 | 16 18 | 1 49 | 21 52 | 0 5 | 22 31 | 0 55 | 14 53 | 6 3 | 19 40 | 19 22 | 18 57 | | n.a. |
| M 3 | 23 16 | 20 1 | 3 27 | 25 19 | 1 37 | 12 51 | 2 5 | 8 13 | 1 25 | 21 21 | 0 49 | 16 16 | 1 49 | 21 52 | 0 5 | 22 31 | 0 55 | 14 53 | 6 3 | 19 41 | 19 23 | 18 58 | | n.a. |
| T 4 | 23 11 | 21 13 | 2 18 | 25 22 | 1 41 | 12 31 | 2 16 | 8 26 | 1 25 | 21 18 | 0 49 | 16 14 | 1 49 | 21 52 | 0 5 | 22 31 | 0 55 | 14 53 | 6 3 | 19 42 | 19 24 | 18 59 | | n.a. |
| W 5 | 23 5 | 20 52 | 0 59 | 25 23 | 1 44 | 12 12 | 2 28 | 8 39 | 1 25 | 21 15 | 0 49 | 16 11 | 1 49 | 21 51 | 0 5 | 22 31 | 0 55 | 14 53 | 6 3 | 19 42 | 19 24 | 19 1 | | n.a. |
| T 6 | 22 59 | 19 5 | 0s22 | 25 22 | 1 48 | 11 52 | 2 39 | 8 52 | 1 24 | 21 12 | 0 49 | 16 9 | 1 49 | 21 51 | 0 5 | 22 31 | 0 55 | 14 53 | 6 3 | 19 42 | 19 25 | 19 2 | | n.a. |
| F 7 | 22 53 | 16 7 | 1 40 | 25 20 | 1 51 | 11 34 | 2 51 | 9 5 | 1 24 | 21 9 | 0 49 | 16 7 | 1 49 | 21 51 | 0 5 | 22 31 | 0 55 | 14 53 | 6 2 | 19 42 | 19 26 | 19 3 | | n.a. |
| S 8 | 22 46 | 12 17 | 2 49 | 25 17 | 1 54 | 11 15 | 3 4 | 9 17 | 1 24 | 21 6 | 0 49 | 16 5 | 1 48 | 21 50 | 0 5 | 22 31 | 0 55 | 14 53 | 6 2 | 19 42 | 19 27 | 19 5 | | n.a. |
| S 9 | 22 38 | 7 57 | 3 47 | 25 12 | 1 56 | 10 57 | 3 16 | 9 30 | 1 24 | 21 3 | 0 50 | 16 3 | 1 48 | 21 50 | 0 5 | 22 31 | 0 55 | 14 53 | 6 2 | 19 41 | 19 27 | 19 6 | | n.a. |
| M10 | 22 30 | 3 23 | 4 31 | 25 4 | 1 58 | 10 40 | 3 29 | 9 42 | 1 23 | 21 0 | 0 50 | 16 0 | 1 48 | 21 50 | 0 5 | 22 31 | 0 55 | 14 53 | 6 2 | 19 41 | 19 28 | 19 7 | | n.a. |
| T 11 | 22 22 | 1n11 | 5 0 | 24 56 | 1 59 | 10 23 | 3 42 | 9 55 | 1 23 | 20 57 | 0 50 | 15 58 | 1 48 | 21 50 | 0 5 | 22 30 | 0 55 | 14 53 | 6 2 | 19 41 | 19 29 | 19 9 | | n.a. |
| W12 | 22 13 | 5 36 | 5 15 | 24 45 | 2 1 | 10 6 | 3 54 | 10 7 | 1 23 | 20 53 | 0 50 | 15 56 | 1 48 | 21 49 | 0 5 | 22 30 | 0 55 | 14 53 | 6 2 | 19 41 | 19 30 | 19 10 | | n.a. |
| T 13 | 22 4 | 9 42 | 5 15 | 24 33 | 2 2 | 9 50 | 4 8 | 10 20 | 1 23 | 20 50 | 0 50 | 15 54 | 1 48 | 21 49 | 0 5 | 22 30 | 0 55 | 14 53 | 6 2 | 19 41 | 19 30 | 19 11 | | n.a. |
| F 14 | 21 55 | 13 21 | 5 1 | 24 18 | 2 2 | 9 35 | 4 21 | 10 32 | 1 22 | 20 47 | 0 50 | 15 51 | 1 48 | 21 49 | 0 5 | 22 30 | 0 55 | 14 53 | 6 1 | 19 41 | 19 31 | 19 12 | | n.a. |
| S 15 | 21 45 | 16 28 | 4 35 | 24 2 | 2 2 | 9 20 | 4 34 | 10 44 | 1 22 | 20 44 | 0 50 | 15 49 | 1 48 | 21 48 | 0 5 | 22 30 | 0 55 | 14 53 | 6 1 | 19 42 | 19 32 | 19 14 | | n.a. |
| S 16 | 21 34 | 18 53 | 3 57 | 23 44 | 2 1 | 9 7 | 4 48 | 10 56 | 1 22 | 20 41 | 0 50 | 15 47 | 1 48 | 21 48 | 0 5 | 22 30 | 0 55 | 14 53 | 6 1 | 19 42 | 19 33 | 19 15 | | n.a. |
| M17 | 21 24 | 20 31 | 3 9 | 23 24 | 2 0 | 8 54 | 5 1 | 11 8 | 1 22 | 20 37 | 0 50 | 15 45 | 1 48 | 21 48 | 0 5 | 22 30 | 0 55 | 14 53 | 6 1 | 19 42 | 19 33 | 19 16 | | n.a. |
| T 18 | 21 12 | 21 14 | 2 12 | 23 2 | 1 59 | 8 41 | 5 14 | 11 20 | 1 21 | 20 34 | 0 50 | 15 42 | 1 48 | 21 48 | 0 5 | 22 30 | 0 55 | 14 53 | 6 1 | 19 43 | 19 34 | 19 17 | | n.a. |
| W19 | 21 1 | 20 59 | 1 9 | 22 38 | 1 57 | 8 30 | 5 28 | 11 32 | 1 21 | 20 31 | 0 50 | 15 40 | 1 48 | 21 47 | 0 5 | 22 30 | 0 55 | 14 53 | 6 1 | 19 43 | 19 35 | 19 19 | | n.a. |
| T 20 | 20 49 | 19 46 | 0 2 | 22 12 | 1 54 | 8 19 | 5 41 | 11 44 | 1 21 | 20 27 | 0 50 | 15 37 | 1 48 | 21 47 | 0 5 | 22 30 | 0 54 | 14 53 | 6 0 | 19 43 | 19 36 | 19 20 | | n.a. |
| F 21 | 20 36 | 17 35 | 1n 6 | 21 45 | 1 51 | 8 10 | 5 54 | 11 56 | 1 20 | 20 24 | 0 50 | 15 35 | 1 48 | 21 47 | 0 5 | 22 30 | 0 54 | 14 53 | 6 0 | 19 43 | 19 36 | 19 21 | | n.a. |
| S 22 | 20 24 | 14 34 | 2 12 | 21 15 | 1 48 | 8 1 | 6 7 | 12 7 | 1 20 | 20 21 | 0 50 | 15 33 | 1 48 | 21 47 | 0 5 | 22 30 | 0 54 | 14 54 | 6 0 | 19 43 | 19 37 | 19 22 | | n.a. |
| S 23 | 20 11 | 10 49 | 3 12 | 20 43 | 1 43 | 7 53 | 6 20 | 12 19 | 1 20 | 20 17 | 0 50 | 15 30 | 1 48 | 21 47 | 0 5 | 22 30 | 0 54 | 14 54 | 6 0 | 19 43 | 19 38 | 19 24 | | n.a. |
| M24 | 19 57 | 6 31 | 4 4 | 20 10 | 1 38 | 7 47 | 6 33 | 12 30 | 1 19 | 20 14 | 0 50 | 15 28 | 1 48 | 21 46 | 0 5 | 22 30 | 0 54 | 14 54 | 6 0 | 19 43 | 19 39 | 19 25 | | n.a. |
| T 25 | 19 43 | 1 50 | 4 44 | 19 34 | 1 33 | 7 41 | 6 45 | 12 42 | 1 19 | 20 11 | 0 50 | 15 25 | 1 48 | 21 46 | 0 5 | 22 30 | 0 54 | 14 54 | 6 0 | 19 42 | 19 39 | 19 26 | | n.a. |
| W26 | 19 29 | 3s 1 | 5 9 | 18 57 | 1 27 | 7 37 | 6 57 | 12 53 | 1 18 | 20 7 | 0 51 | 15 23 | 1 48 | 21 46 | 0 5 | 22 30 | 0 54 | 14 54 | 5 59 | 19 43 | 19 40 | 19 27 | | n.a. |
| T 27 | 19 15 | 7 49 | 5 18 | 18 18 | 1 20 | 7 33 | 7 9 | 13 4 | 1 18 | 20 4 | 0 51 | 15 21 | 1 48 | 21 46 | 0 5 | 22 30 | 0 54 | 14 54 | 5 59 | 19 43 | 19 41 | 19 29 | | n.a. |
| F 28 | 19 0 | 12 18 | 5 8 | 17 38 | 1 13 | 7 31 | 7 20 | 13 15 | 1 18 | 20 0 | 0 51 | 15 18 | 1 48 | 21 46 | 0 5 | 22 29 | 0 54 | 14 54 | 5 59 | 19 43 | 19 42 | 19 30 | | n.a. |
| S 29 | 18 45 | 16 11 | 4 39 | 16 56 | 1 4 | 7 29 | 7 30 | 13 26 | 1 17 | 19 57 | 0 51 | 15 16 | 1 48 | 21 46 | 0 5 | 22 29 | 0 54 | 14 54 | 5 59 | 19 42 | 19 42 | 19 31 | | n.a. |
| S 30 | 18 29 | 19 8 | 3 52 | 16 12 | 0 56 | 7 29 | 7 40 | 13 37 | 1 17 | 19 53 | 0 51 | 15 13 | 1 48 | 21 45 | 0 5 | 22 29 | 0 54 | 14 54 | 5 59 | 19 42 | 19 43 | 19 32 | | n.a. |
| M31 | 18s13 | 20s53 | 2n49 | 15s28 | 0s46 | 7s30 | 7n49 | 13s48 | 1n16 | 19s50 | 0s51 | 15s11 | 1s48 | 21n45 | 0n 5 | 22n29 | 0s54 | 14n54 | 5s58 | 19n42 | 19n44 | 19n33 | | n.a. |

Julian Day Number = 1696951.5, Delta T = 03h07m33s
Ecliptic obliquity = 23°42'06, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°59'21, Lahiri = - 4°52'20 Julian Calendar 1 Jan. 67 BCE == Greg. Calendar 30 Dec. 068 BCE

The year -66 astronomical counting style corresponds to year 067 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 67 BCE
# geocentric

## FEBRUARY 67 BCE (-66) JC 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 32 43 | 9♒56'35 | 15♉38 | 22♒34 | 19°R35 | 10♏37 | 6♒ 8 | 24♒39 | 6°R45 | 20°R57 | 1°R51 | 3♌ 0 | 2♌49 | 18♊16 | n.a. | T 1 |
| W 2 | 8 36 39 | 10°56'44 | 0♒20 | 24°23 | 19♒ 1 | 11° 9 | 6°22 | 24°47 | 6♊44 | 20♊56 | 1♊50 | 3°R 0 | 2°46 | 18°23 | n.a. | W 2 |
| T 3 | 8 40 36 | 11°56'50 | 14°52 | 26°10 | 18°25 | 11°41 | 6°37 | 24°54 | 6°43 | 20°55 | 1°50 | 3° 0 | 2°43 | 18°30 | n.a. | T 3 |
| F 4 | 8 44 33 | 12°56'55 | 29° 9 | 27°54 | 17°49 | 12°13 | 6°51 | 25° 2 | 6°43 | 20°54 | 1°50 | 2°59 | 2°40 | 18°37 | n.a. | F 4 |
| S 5 | 8 48 29 | 13°56'58 | 13♓ 6 | 29°35 | 17°12 | 12°45 | 7° 5 | 25° 9 | 6°42 | 20°53 | 1°49 | 2°58 | 2°37 | 18°43 | n.a. | S 5 |
| S 6 | 8 52 26 | 14°56'58 | 26°40 | 1♓12 | 16°34 | 13°17 | 7°20 | 25°16 | 6°42 | 20°52 | 1°49 | 2°57 | 2°34 | 18°50 | n.a. | S 6 |
| M 7 | 8 56 22 | 15°56'56 | 9♈50 | 2°45 | 15°56 | 13°48 | 7°34 | 25°24 | 6°41 | 20°51 | 1°49 | 2°55 | 2°30 | 18°57 | n.a. | M 7 |
| T 8 | 9 0 19 | 16°56'52 | 22°37 | 4°14 | 15°19 | 14°20 | 7°48 | 25°31 | 6°41 | 20°50 | 1°49 | 2°53 | 2°27 | 19° 3 | n.a. | T 8 |
| W 9 | 9 4 15 | 17°56'45 | 5♉ 3 | 5°38 | 14°41 | 14°51 | 8° 3 | 25°39 | 6°40 | 20°50 | 1°48 | 2°52 | 2°24 | 19°10 | n.a. | W 9 |
| T 10 | 9 8 12 | 18°56'36 | 17°14 | 6°56 | 14° 4 | 15°22 | 8°17 | 25°46 | 6°40 | 20°49 | 1°48 | 2°D52 | 2°21 | 19°17 | n.a. | T 10 |
| F 11 | 9 12 8 | 19°56'25 | 29°13 | 8° 7 | 13°28 | 15°53 | 8°31 | 25°54 | 6°40 | 20°48 | 1°48 | 2°52 | 2°18 | 19°23 | n.a. | F 11 |
| S 12 | 9 16 5 | 20°56'12 | 11♊ 4 | 9°12 | 12°53 | 16°24 | 8°46 | 26° 1 | 6°40 | 20°48 | 1°48 | 2°53 | 2°14 | 19°30 | n.a. | S 12 |
| S 13 | 9 20 1 | 21°55'56 | 22°54 | 10°10 | 12°19 | 16°55 | 9° 0 | 26° 9 | 6°39 | 20°47 | 1°48 | 2°54 | 2°11 | 19°37 | n.a. | S 13 |
| M14 | 9 23 58 | 22°55'38 | 4♋46 | 11° 1 | 11°47 | 17°26 | 9°14 | 26°16 | 6°39 | 20°46 | 1°48 | 2°56 | 2° 8 | 19°43 | n.a. | M14 |
| T 15 | 9 27 55 | 23°55'18 | 16°44 | 11°44 | 11°16 | 17°56 | 9°28 | 26°24 | 6°D39 | 20°46 | 1°48 | 2°58 | 2° 5 | 19°50 | n.a. | T 15 |
| W16 | 9 31 51 | 24°54'55 | 28°52 | 12°19 | 10°47 | 18°27 | 9°43 | 26°31 | 6°39 | 20°45 | 1°48 | 2°R58 | 2° 2 | 19°57 | n.a. | W16 |
| T 17 | 9 35 48 | 25°54'31 | 11♌13 | 12°45 | 10°20 | 18°57 | 9°57 | 26°39 | 6°39 | 20°45 | 1°D48 | 2°58 | 1°59 | 20° 3 | n.a. | T 17 |
| F 18 | 9 39 44 | 26°54'03 | 23°48 | 13° 4 | 9°55 | 19°27 | 10°11 | 26°46 | 6°39 | 20°44 | 1°48 | 2°57 | 1°55 | 20°10 | n.a. | F 18 |
| S 19 | 9 43 41 | 27°53'34 | 6♍38 | 13°14 | 9°33 | 19°56 | 10°25 | 26°54 | 6°40 | 20°44 | 1°48 | 2°54 | 1°52 | 20°17 | n.a. | S 19 |
| S 20 | 9 47 37 | 28°53'03 | 19°43 | 13°R16 | 9°12 | 20°26 | 10°39 | 27° 1 | 6°40 | 20°43 | 1°48 | 2°51 | 1°49 | 20°23 | n.a. | S 20 |
| M21 | 9 51 34 | 29°52'29 | 3♎ 2 | 13°10 | 8°54 | 20°56 | 10°53 | 27° 9 | 6°40 | 20°43 | 1°48 | 2°46 | 1°46 | 20°30 | n.a. | M21 |
| T 22 | 9 55 30 | 0♓51'54 | 16°34 | 12°56 | 8°39 | 21°25 | 11° 7 | 27°16 | 6°40 | 20°42 | 1°48 | 2°42 | 1°43 | 20°37 | n.a. | T 22 |
| W23 | 9 59 27 | 1°51'17 | 0♏18 | 12°35 | 8°26 | 21°54 | 11°21 | 27°23 | 6°41 | 20°42 | 1°48 | 2°38 | 1°39 | 20°43 | n.a. | W23 |
| T 24 | 10 3 24 | 2°50'38 | 14°11 | 12° 8 | 8°15 | 22°23 | 11°35 | 27°31 | 6°41 | 20°42 | 1°48 | 2°36 | 1°36 | 20°50 | n.a. | T 24 |
| F 25 | 10 7 20 | 3°49'57 | 28°13 | 11°34 | 8° 7 | 22°52 | 11°49 | 27°38 | 6°42 | 20°42 | 1°49 | 2°D34 | 1°33 | 20°57 | n.a. | F 25 |
| S 26 | 10 11 17 | 4°49'14 | 12♐22 | 10°56 | 8° 1 | 23°20 | 12° 3 | 27°46 | 6°42 | 20°41 | 1°49 | 2°35 | 1°30 | 21° 3 | n.a. | S 26 |
| S 27 | 10 15 13 | 5°48'29 | 26°35 | 10°13 | 7°58 | 23°48 | 12°17 | 27°53 | 6°43 | 20°41 | 1°49 | 2°36 | 1°27 | 21°10 | n.a. | S 27 |
| M28 | 10 19 10 | 6♓47'43 | 10♉51 | 9♓26 | 7°D57 | 24♏17 | 12♒31 | 28♒ 1 | 6♊43 | 20♊41 | 1♊49 | 2♌37 | 1♌24 | 21♊17 | n.a. | M28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 17s57 | 21s12 | 1n35 | 14s42 | 0s36 | 7s32 | 7n58 | 13s58 | 1n16 | 19s46 | 0s51 | 15s 8 | 1s48 | 21n45 | 0n 5 | 22n29 | 0s54 | 14n54 | 5s58 | 19n42 | 19n45 | 19n35 | | n.a. |
| W 2 | 17 41 | 20 4 | 0 15 | 13 56 | 0 25 | 7 35 | 8 6 | 14 9 | 1 15 | 19 43 | 0 51 | 15 6 | 1 48 | 21 45 | 0 5 | 22 29 | 0 54 | 14 54 | 5 58 | 19 42 | 19 45 | 19 36 | | n.a. |
| T 3 | 17 24 | 17 36 | 1s 5 | 13 9 | 0 14 | 7 40 | 8 13 | 14 19 | 1 15 | 19 39 | 0 51 | 15 3 | 1 48 | 21 45 | 0 5 | 22 29 | 0 54 | 14 55 | 5 58 | 19 42 | 19 46 | 19 37 | | n.a. |
| F 4 | 17 7 | 14 5 | 2 20 | 12 22 | 0 2 | 7 45 | 8 19 | 14 30 | 1 14 | 19 35 | 0 51 | 15 1 | 1 48 | 21 45 | 0 5 | 22 29 | 0 54 | 14 55 | 5 58 | 19 42 | 19 47 | 19 38 | | n.a. |
| S 5 | 16 49 | 9 51 | 3 25 | 11 34 | 0n11 | 7 51 | 8 24 | 14 40 | 1 14 | 19 32 | 0 51 | 14 58 | 1 48 | 21 45 | 0 5 | 22 29 | 0 54 | 14 55 | 5 58 | 19 43 | 19 48 | 19 39 | | n.a. |
| S 6 | 16 32 | 5 14 | 4 16 | 10 48 | 0 24 | 7 58 | 8 28 | 14 50 | 1 13 | 19 28 | 0 51 | 14 56 | 1 48 | 21 45 | 0 5 | 22 29 | 0 54 | 14 55 | 5 57 | 19 43 | 19 48 | 19 41 | | n.a. |
| M 7 | 16 14 | 0 31 | 4 51 | 10 1 | 0 37 | 8 6 | 8 31 | 15 0 | 1 13 | 19 25 | 0 52 | 14 53 | 1 48 | 21 45 | 0 5 | 22 29 | 0 54 | 14 55 | 5 57 | 19 43 | 19 49 | 19 42 | | n.a. |
| T 8 | 15 56 | 4n 4 | 5 11 | 9 16 | 0 51 | 8 14 | 8 33 | 15 10 | 1 12 | 19 21 | 0 52 | 14 51 | 1 48 | 21 45 | 0 5 | 22 29 | 0 54 | 14 55 | 5 57 | 19 44 | 19 50 | 19 43 | | n.a. |
| W 9 | 15 37 | 8 23 | 5 16 | 8 32 | 1 5 | 8 24 | 8 35 | 15 20 | 1 11 | 19 17 | 0 52 | 14 48 | 1 48 | 21 44 | 0 5 | 22 29 | 0 54 | 14 55 | 5 57 | 19 44 | 19 50 | 19 44 | | n.a. |
| T 10 | 15 19 | 12 16 | 5 7 | 7 50 | 1 19 | 8 34 | 8 35 | 15 30 | 1 11 | 19 14 | 0 52 | 14 46 | 1 48 | 21 44 | 0 5 | 22 29 | 0 54 | 14 56 | 5 57 | 19 44 | 19 51 | 19 45 | | n.a. |
| F 11 | 15 0 | 15 35 | 4 44 | 7 10 | 1 33 | 8 44 | 8 35 | 15 40 | 1 10 | 19 10 | 0 52 | 14 43 | 1 48 | 21 44 | 0 5 | 22 29 | 0 54 | 14 56 | 5 56 | 19 44 | 19 52 | 19 47 | | n.a. |
| S 12 | 14 40 | 18 14 | 4 9 | 6 33 | 1 47 | 8 55 | 8 33 | 15 49 | 1 9 | 19 6 | 0 52 | 14 41 | 1 48 | 21 44 | 0 5 | 22 29 | 0 54 | 14 56 | 5 56 | 19 44 | 19 53 | 19 48 | | n.a. |
| S 13 | 14 21 | 20 7 | 3 24 | 5 58 | 2 1 | 9 7 | 8 31 | 15 59 | 1 9 | 19 2 | 0 52 | 14 38 | 1 48 | 21 44 | 0 5 | 22 29 | 0 54 | 14 56 | 5 56 | 19 43 | 19 53 | 19 49 | | n.a. |
| M14 | 14 1 | 21 7 | 2 30 | 5 26 | 2 15 | 9 19 | 8 27 | 16 8 | 1 8 | 18 59 | 0 52 | 14 35 | 1 48 | 21 44 | 0 5 | 22 29 | 0 54 | 14 56 | 5 56 | 19 43 | 19 54 | 19 50 | | n.a. |
| T 15 | 13 42 | 21 11 | 1 28 | 4 58 | 2 28 | 9 31 | 8 23 | 16 17 | 1 7 | 18 55 | 0 52 | 14 33 | 1 48 | 21 44 | 0 5 | 22 29 | 0 54 | 14 56 | 5 56 | 19 43 | 19 55 | 19 51 | | n.a. |
| W16 | 13 22 | 20 14 | 0 23 | 4 33 | 2 40 | 9 43 | 8 18 | 16 26 | 1 7 | 18 51 | 0 52 | 14 30 | 1 48 | 21 44 | 0 5 | 22 29 | 0 54 | 14 57 | 5 56 | 19 42 | 19 55 | 19 52 | | n.a. |
| T 17 | 13 1 | 18 20 | 0n45 | 4 12 | 2 52 | 9 56 | 8 13 | 16 35 | 1 6 | 18 48 | 0 53 | 14 28 | 1 48 | 21 44 | 0 5 | 22 29 | 0 54 | 14 57 | 5 55 | 19 43 | 19 56 | 19 53 | | n.a. |
| F 18 | 12 41 | 15 30 | 1 52 | 3 56 | 3 2 | 10 9 | 8 6 | 16 44 | 1 5 | 18 44 | 0 53 | 14 25 | 1 48 | 21 44 | 0 5 | 22 29 | 0 53 | 14 57 | 5 55 | 19 43 | 19 57 | 19 55 | | n.a. |
| S 19 | 12 20 | 11 52 | 2 55 | 3 43 | 3 12 | 10 21 | 7 59 | 16 53 | 1 4 | 18 40 | 0 53 | 14 23 | 1 48 | 21 44 | 0 5 | 22 29 | 0 53 | 14 57 | 5 55 | 19 43 | 19 58 | 19 56 | | n.a. |
| S 20 | 11 59 | 7 37 | 3 49 | 3 34 | 3 20 | 10 34 | 7 52 | 17 2 | 1 3 | 18 36 | 0 53 | 14 20 | 1 48 | 21 44 | 0 5 | 22 29 | 0 53 | 14 57 | 5 55 | 19 44 | 19 58 | 19 57 | | n.a. |
| M21 | 11 38 | 2 56 | 4 32 | 3 30 | 3 27 | 10 46 | 7 44 | 17 11 | 1 3 | 18 32 | 0 53 | 14 18 | 1 49 | 21 44 | 0 5 | 22 29 | 0 53 | 14 57 | 5 55 | 19 45 | 19 59 | 19 58 | | n.a. |
| T 22 | 11 17 | 1s57 | 5 1 | 3 30 | 3 33 | 10 58 | 7 35 | 17 19 | 1 2 | 18 29 | 0 53 | 14 15 | 1 49 | 21 45 | 0 5 | 22 29 | 0 53 | 14 58 | 5 54 | 19 46 | 20 0 | 19 59 | | n.a. |
| W23 | 10 56 | 6 49 | 5 13 | 3 34 | 3 37 | 11 10 | 7 26 | 17 28 | 1 1 | 18 25 | 0 53 | 14 12 | 1 49 | 21 45 | 0 5 | 22 29 | 0 53 | 14 58 | 5 54 | 19 47 | 20 1 | 20 0 | | n.a. |
| T 24 | 10 34 | 11 23 | 5 7 | 3 43 | 3 39 | 11 22 | 7 17 | 17 36 | 1 0 | 18 21 | 0 53 | 14 10 | 1 49 | 21 45 | 0 5 | 22 29 | 0 53 | 14 58 | 5 54 | 19 48 | 20 1 | 20 1 | | n.a. |
| F 25 | 10 13 | 15 24 | 4 42 | 3 55 | 3 40 | 11 34 | 7 7 | 17 44 | 0 59 | 18 17 | 0 54 | 14 7 | 1 49 | 21 45 | 0 5 | 22 29 | 0 53 | 14 58 | 5 54 | 19 48 | 20 2 | 20 3 | | n.a. |
| S 26 | 9 51 | 18 33 | 4 1 | 4 11 | 3 39 | 11 45 | 6 57 | 17 52 | 0 58 | 18 13 | 0 54 | 14 5 | 1 49 | 21 45 | 0 5 | 22 29 | 0 53 | 14 59 | 5 54 | 19 48 | 20 3 | 20 4 | | n.a. |
| S 27 | 9 29 | 20 35 | 3 4 | 4 30 | 3 36 | 11 55 | 6 47 | 18 0 | 0 57 | 18 10 | 0 54 | 14 2 | 1 49 | 21 45 | 0 5 | 22 29 | 0 53 | 14 59 | 5 53 | 19 48 | 20 3 | 20 5 | | n.a. |
| M28 | 9s 7 | 21s19 | 1n56 | 4s52 | 3n31 | 12s 6 | 6n36 | 18s 8 | 0n56 | 18s 6 | 0s54 | 14s 0 | 1s49 | 21n45 | 0n 5 | 22n29 | 0s53 | 14n59 | 5s53 | 19n47 | 20n 4 | 20n 6 | | n.a. |

Julian Day Number = 1696982.5, Delta T = 03h07m32s
Ecliptic obliquity = 23°42'06, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°59'16, Lahiri = - 4°52'16 Julian Calendar 1 Feb. 67 BCE == Greg. Calendar 30 Jan. 067 BCE


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# ASTRODIENST EPHEMERIS for the year 67 BCE
# geocentric

## MARCH 67 BCE (-66) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 10 23 6 | 7♓46'55 | 25♉ 8 | 8°R38 | 7♒59 | 24♏44 | 12♒44 | 28♒ 8 | 6♊44 | 20°R41 | 1♊50 | 2♌38 | 1♌20 | 21♊24 | n.a. | T 1 |
| W 2 | 10 27 3 | 8°46'05 | 9♒22 | 7♓48 | 8° 3 | 25°12 | 12°58 | 28°16 | 6°45 | 20♊41 | 1°50 | 2°R38 | 1°17 | 21°30 | n.a. | W 2 |
| T 3 | 10 30 59 | 9°45'12 | 23°30 | 6°57 | 8° 9 | 25°40 | 13°12 | 28°23 | 6°46 | 20°41 | 1°50 | 2°37 | 1°14 | 21°37 | n.a. | T 3 |
| F 4 | 10 34 56 | 10°44'18 | 7♓27 | 6° 8 | 8°18 | 26° 7 | 13°26 | 28°31 | 6°47 | 20°41 | 1°51 | 2°33 | 1°11 | 21°44 | n.a. | F 4 |
| S 5 | 10 38 52 | 11°43'22 | 21°10 | 5°19 | 8°29 | 26°34 | 13°39 | 28°38 | 6°47 | 20°D41 | 1°51 | 2°28 | 1° 8 | 21°50 | n.a. | S 5 |
| S 6 | 10 42 49 | 12°42'23 | 4♈35 | 4°34 | 8°41 | 27° 0 | 13°53 | 28°45 | 6°48 | 20°41 | 1°51 | 2°21 | 1° 5 | 21°57 | n.a. | S 6 |
| M 7 | 10 46 46 | 13°41'22 | 17°41 | 3°51 | 8°56 | 27°27 | 14° 6 | 28°53 | 6°49 | 20°41 | 1°52 | 2°14 | 1° 1 | 22° 4 | n.a. | M 7 |
| T 8 | 10 50 42 | 14°40'19 | 0♉27 | 3°12 | 9°13 | 27°53 | 14°20 | 29° 0 | 6°50 | 20°41 | 1°52 | 2° 7 | 0°58 | 22°10 | n.a. | T 8 |
| W 9 | 10 54 39 | 15°39'13 | 12°55 | 2°38 | 9°32 | 28°19 | 14°33 | 29° 7 | 6°52 | 20°41 | 1°53 | 2° 1 | 0°55 | 22°17 | n.a. | W 9 |
| T 10 | 10 58 35 | 16°38'05 | 25° 7 | 2° 8 | 9°53 | 28°45 | 14°46 | 29°15 | 6°53 | 20°41 | 1°53 | 1°57 | 0°52 | 22°24 | n.a. | T 10 |
| F 11 | 11 2 32 | 17°36'55 | 7♊ 6 | 1°44 | 10°15 | 29°10 | 15° 0 | 29°22 | 6°54 | 20°41 | 1°54 | 1°54 | 0°49 | 22°30 | n.a. | F 11 |
| S 12 | 11 6 28 | 18°35'43 | 18°59 | 1°24 | 10°39 | 29°35 | 15°13 | 29°29 | 6°55 | 20°42 | 1°54 | 1°D54 | 0°45 | 22°37 | n.a. | S 12 |
| S 13 | 11 10 25 | 19°34'28 | 0♋48 | 1°10 | 11° 5 | 29°59 | 15°26 | 29°36 | 6°57 | 20°42 | 1°55 | 1°54 | 0°42 | 22°44 | n.a. | S 13 |
| M14 | 11 14 21 | 20°33'11 | 12°41 | 1° 1 | 11°32 | 0♐24 | 15°39 | 29°43 | 6°58 | 20°42 | 1°55 | 1°56 | 0°39 | 22°50 | n.a. | M14 |
| T 15 | 11 18 18 | 21°31'52 | 24°41 | 0°D58 | 12° 1 | 0°49 | 15°52 | 29°51 | 6°59 | 20°42 | 1°56 | 1°57 | 0°36 | 22°57 | n.a. | T 15 |
| W16 | 11 22 15 | 22°30'30 | 6♌54 | 1° 0 | 12°32 | 1°12 | 16° 5 | 29°58 | 7° 1 | 20°43 | 1°56 | 1°R57 | 0°33 | 23° 4 | n.a. | W16 |
| T 17 | 11 26 11 | 23°29'06 | 19°23 | 1° 7 | 13° 4 | 1°36 | 16°18 | 0♓ 5 | 7° 2 | 20°43 | 1°57 | 1°55 | 0°30 | 23°10 | n.a. | T 17 |
| F 18 | 11 30 8 | 24°27'40 | 2♍11 | 1°19 | 13°37 | 1°59 | 16°31 | 0°12 | 7° 4 | 20°44 | 1°58 | 1°52 | 0°26 | 23°17 | n.a. | F 18 |
| S 19 | 11 34 4 | 25°26'12 | 15°19 | 1°36 | 14°11 | 2°22 | 16°44 | 0°19 | 7° 5 | 20°44 | 1°58 | 1°46 | 0°23 | 23°24 | n.a. | S 19 |
| S 20 | 11 38 1 | 26°24'41 | 28°47 | 1°57 | 14°47 | 2°45 | 16°57 | 0°26 | 7° 7 | 20°45 | 1°59 | 1°38 | 0°20 | 23°30 | n.a. | S 20 |
| M21 | 11 41 57 | 27°23'09 | 12♎33 | 2°23 | 15°24 | 3° 7 | 17° 9 | 0°33 | 7° 9 | 20°45 | 2° 0 | 1°29 | 0°17 | 23°37 | n.a. | M21 |
| T 22 | 11 45 54 | 28°21'34 | 26°32 | 2°54 | 16° 3 | 3°29 | 17°22 | 0°40 | 7°10 | 20°46 | 2° 0 | 1°19 | 0°14 | 23°44 | n.a. | T 22 |
| W23 | 11 49 50 | 29°19'58 | 10♏41 | 3°28 | 16°42 | 3°51 | 17°34 | 0°47 | 7°12 | 20°46 | 2° 1 | 1°11 | 0°10 | 23°50 | n.a. | W23 |
| T 24 | 11 53 47 | 0♈18'20 | 24°56 | 4° 7 | 17°23 | 4°12 | 17°47 | 0°54 | 7°14 | 20°47 | 2° 2 | 1° 4 | 0° 7 | 23°57 | n.a. | T 24 |
| F 25 | 11 57 43 | 1°16'41 | 9♐11 | 4°49 | 18° 4 | 4°33 | 17°59 | 1° 1 | 7°16 | 20°48 | 2° 3 | 1° 0 | 0° 4 | 24° 4 | n.a. | F 25 |
| S 26 | 12 1 40 | 2°15'00 | 23°23 | 5°35 | 18°47 | 4°53 | 18°12 | 1° 7 | 7°18 | 20°48 | 2° 3 | 0°58 | 0° 1 | 24°10 | n.a. | S 26 |
| S 27 | 12 5 37 | 3°13'17 | 7♑32 | 6°24 | 19°30 | 5°13 | 18°24 | 1°14 | 7°20 | 20°49 | 2° 4 | 0°D58 | 29♋58 | 24°17 | n.a. | S 27 |
| M28 | 12 9 33 | 4°11'33 | 21°35 | 7°17 | 20°15 | 5°33 | 18°36 | 1°21 | 7°22 | 20°50 | 2° 5 | 0°58 | 29°55 | 24°24 | n.a. | M28 |
| T 29 | 12 13 30 | 5° 9'47 | 5♒31 | 8°13 | 21° 0 | 5°52 | 18°48 | 1°28 | 7°24 | 20°51 | 2° 6 | 0°R59 | 29°51 | 24°30 | n.a. | T 29 |
| W30 | 12 17 26 | 6° 8'00 | 19°21 | 9°11 | 21°47 | 6°11 | 19° 0 | 1°34 | 7°26 | 20°51 | 2° 7 | 0°57 | 29°48 | 24°37 | n.a. | W30 |
| T 31 | 12 21 23 | 7♈ 6'11 | 3♓ 2 | 10♓13 | 22♒34 | 6♐29 | 19♒12 | 1♓41 | 7♊28 | 20♊52 | 2♊ 8 | 0♌54 | 29♋45 | 24♊44 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 8s45 | 20s40 | 0n41 | 5s16 | 3n24 | 12s16 | 6n25 | 18s16 | 0n55 | 18s 2 | 0s54 | 13s57 | 1s49 | 21n45 | 0n 5 | 22n29 | 0s53 | 14n59 | 5s53 | 19n47 | 20n 5 | 20n 7 | | | n.a. |
| W 2 | 8 22 | 18 42 | 0s37 | 5 43 | 3 16 | 12 25 | 6 15 | 18 24 | 0 54 | 17 58 | 0 54 | 13 55 | 1 49 | 21 45 | 0 5 | 22 29 | 0 53 | 14 59 | 5 53 | 19 47 | 20 5 | 20 8 | | | n.a. |
| T 3 | 8 0 | 15 35 | 1 51 | 6 10 | 3 6 | 12 34 | 6 4 | 18 32 | 0 53 | 17 54 | 0 54 | 13 52 | 1 49 | 21 45 | 0 5 | 22 29 | 0 53 | 15 0 | 5 53 | 19 48 | 20 6 | 20 9 | | | n.a. |
| F 4 | 7 37 | 11 37 | 2 58 | 6 39 | 2 55 | 12 42 | 5 53 | 18 39 | 0 52 | 17 51 | 0 54 | 13 50 | 1 49 | 21 46 | 0 5 | 22 29 | 0 53 | 15 0 | 5 53 | 19 48 | 20 7 | 20 10 | | | n.a. |
| S 5 | 7 15 | 7 6 | 3 53 | 7 8 | 2 43 | 12 50 | 5 42 | 18 47 | 0 51 | 17 47 | 0 55 | 13 47 | 1 49 | 21 46 | 0 5 | 22 29 | 0 53 | 15 0 | 5 52 | 19 50 | 20 8 | 20 11 | | | n.a. |
| S 6 | 6 52 | 2 21 | 4 34 | 7 38 | 2 30 | 12 58 | 5 31 | 18 54 | 0 50 | 17 43 | 0 55 | 13 45 | 1 49 | 21 46 | 0 5 | 22 30 | 0 53 | 15 0 | 5 52 | 19 51 | 20 8 | 20 12 | | | n.a. |
| M 7 | 6 29 | 2n24 | 5 0 | 8 6 | 2 15 | 13 5 | 5 20 | 19 1 | 0 48 | 17 39 | 0 55 | 13 42 | 1 50 | 21 46 | 0 5 | 22 30 | 0 53 | 15 1 | 5 52 | 19 53 | 20 9 | 20 14 | | | n.a. |
| T 8 | 6 6 | 6 56 | 5 9 | 8 34 | 2 0 | 13 11 | 5 9 | 19 8 | 0 47 | 17 35 | 0 55 | 13 40 | 1 50 | 21 46 | 0 5 | 22 30 | 0 53 | 15 1 | 5 52 | 19 54 | 20 10 | 20 15 | | | n.a. |
| W 9 | 5 43 | 11 3 | 5 4 | 9 1 | 1 45 | 13 17 | 4 58 | 19 15 | 0 46 | 17 32 | 0 55 | 13 37 | 1 50 | 21 47 | 0 5 | 22 30 | 0 53 | 15 1 | 5 52 | 19 56 | 20 10 | 20 16 | | | n.a. |
| T 10 | 5 20 | 14 39 | 4 45 | 9 26 | 1 29 | 13 22 | 4 47 | 19 22 | 0 45 | 17 28 | 0 55 | 13 35 | 1 50 | 21 47 | 0 5 | 22 30 | 0 53 | 15 2 | 5 51 | 19 57 | 20 11 | 20 17 | | | n.a. |
| F 11 | 4 57 | 17 34 | 4 13 | 9 50 | 1 14 | 13 26 | 4 36 | 19 29 | 0 43 | 17 24 | 0 55 | 13 32 | 1 50 | 21 47 | 0 5 | 22 30 | 0 53 | 15 2 | 5 51 | 19 57 | 20 12 | 20 18 | | | n.a. |
| S 12 | 4 34 | 19 44 | 3 31 | 10 12 | 0 58 | 13 30 | 4 25 | 19 36 | 0 42 | 17 20 | 0 56 | 13 30 | 1 50 | 21 47 | 0 5 | 22 30 | 0 53 | 15 2 | 5 51 | 19 57 | 20 13 | 20 19 | | | n.a. |
| S 13 | 4 10 | 21 2 | 2 40 | 10 31 | 0 42 | 13 33 | 4 15 | 19 42 | 0 41 | 17 16 | 0 56 | 13 27 | 1 50 | 21 47 | 0 5 | 22 30 | 0 53 | 15 2 | 5 51 | 19 57 | 20 13 | 20 20 | | | n.a. |
| M14 | 3 47 | 21 24 | 1 42 | 10 49 | 0 27 | 13 36 | 4 4 | 19 49 | 0 39 | 17 13 | 0 56 | 13 25 | 1 50 | 21 48 | 0 5 | 22 30 | 0 52 | 15 3 | 5 51 | 19 57 | 20 14 | 20 21 | | | n.a. |
| T 15 | 3 24 | 20 47 | 0 39 | 11 4 | 0 12 | 13 38 | 3 54 | 19 56 | 0 38 | 17 9 | 0 56 | 13 22 | 1 50 | 21 48 | 0 5 | 22 30 | 0 52 | 15 3 | 5 51 | 19 57 | 20 15 | 20 22 | | | n.a. |
| W16 | 3 0 | 19 11 | 0n27 | 11 17 | 0s 3 | 13 40 | 3 43 | 20 2 | 0 36 | 17 5 | 0 56 | 13 20 | 1 50 | 21 48 | 0 5 | 22 30 | 0 52 | 15 3 | 5 50 | 19 57 | 20 15 | 20 23 | | | n.a. |
| T 17 | 2 37 | 16 38 | 1 33 | 11 27 | 0 17 | 13 41 | 3 33 | 20 8 | 0 35 | 17 1 | 0 56 | 13 17 | 1 51 | 21 48 | 0 5 | 22 30 | 0 52 | 15 4 | 5 50 | 19 57 | 20 16 | 20 24 | | | n.a. |
| F 18 | 2 13 | 13 13 | 2 35 | 11 36 | 0 30 | 13 41 | 3 23 | 20 14 | 0 33 | 16 57 | 0 57 | 13 15 | 1 51 | 21 49 | 0 5 | 22 30 | 0 52 | 15 4 | 5 50 | 19 58 | 20 17 | 20 25 | | | n.a. |
| S 19 | 1 50 | 9 5 | 3 31 | 11 42 | 0 43 | 13 41 | 3 13 | 20 21 | 0 32 | 16 54 | 0 57 | 13 12 | 1 51 | 21 49 | 0 5 | 22 30 | 0 52 | 15 4 | 5 50 | 19 59 | 20 17 | 20 26 | | | n.a. |
| S 20 | 1 27 | 4 25 | 4 17 | 11 46 | 0 56 | 13 40 | 3 3 | 20 27 | 0 30 | 16 50 | 0 57 | 13 10 | 1 51 | 21 49 | 0 5 | 22 30 | 0 52 | 15 4 | 5 50 | 20 1 | 20 18 | 20 27 | | | n.a. |
| M21 | 1 3 | 0s35 | 4 49 | 11 47 | 1 7 | 13 38 | 2 53 | 20 33 | 0 29 | 16 46 | 0 57 | 13 8 | 1 51 | 21 49 | 0 5 | 22 30 | 0 52 | 15 5 | 5 49 | 20 3 | 20 19 | 20 28 | | | n.a. |
| T 22 | 0 40 | 5 38 | 5 4 | 11 46 | 1 19 | 13 36 | 2 44 | 20 39 | 0 27 | 16 42 | 0 57 | 13 5 | 1 51 | 21 50 | 0 5 | 22 31 | 0 52 | 15 5 | 5 49 | 20 5 | 20 19 | 20 29 | | | n.a. |
| W23 | 0 16 | 10 26 | 5 1 | 11 43 | 1 29 | 13 33 | 2 34 | 20 44 | 0 25 | 16 39 | 0 57 | 13 3 | 1 51 | 21 50 | 0 5 | 22 31 | 0 52 | 15 5 | 5 49 | 20 7 | 20 20 | 20 30 | | | n.a. |
| T 24 | 0n 7 | 14 41 | 4 39 | 11 38 | 1 39 | 13 30 | 2 25 | 20 50 | 0 23 | 16 35 | 0 58 | 13 1 | 1 51 | 21 50 | 0 5 | 22 31 | 0 52 | 15 6 | 5 49 | 20 8 | 20 21 | 20 31 | | | n.a. |
| F 25 | 0 31 | 18 7 | 4 0 | 11 31 | 1 48 | 13 26 | 2 16 | 20 56 | 0 22 | 16 31 | 0 58 | 12 58 | 1 52 | 21 51 | 0 5 | 22 31 | 0 52 | 15 6 | 5 49 | 20 9 | 20 21 | 20 32 | | | n.a. |
| S 26 | 0 54 | 20 26 | 3 7 | 11 22 | 1 56 | 13 21 | 2 7 | 21 1 | 0 20 | 16 28 | 0 58 | 12 56 | 1 52 | 21 51 | 0 5 | 22 31 | 0 52 | 15 6 | 5 49 | 20 10 | 20 22 | 20 33 | | | n.a. |
| S 27 | 1 18 | 21 27 | 2 2 | 11 11 | 2 4 | 13 16 | 1 58 | 21 7 | 0 18 | 16 24 | 0 58 | 12 54 | 1 52 | 21 51 | 0 5 | 22 31 | 0 52 | 15 7 | 5 48 | 20 10 | 20 23 | 20 34 | | | n.a. |
| M28 | 1 41 | 21 8 | 0 50 | 10 57 | 2 11 | 13 10 | 1 49 | 21 12 | 0 16 | 16 20 | 0 58 | 12 51 | 1 52 | 21 52 | 0 5 | 22 31 | 0 52 | 15 7 | 5 48 | 20 10 | 20 24 | 20 35 | | | n.a. |
| T 29 | 2 4 | 19 29 | 0s24 | 10 42 | 2 18 | 13 4 | 1 41 | 21 18 | 0 14 | 16 17 | 0 59 | 12 49 | 1 52 | 21 52 | 0 5 | 22 31 | 0 52 | 15 7 | 5 48 | 20 10 | 20 24 | 20 36 | | | n.a. |
| W30 | 2 28 | 16 42 | 1 36 | 10 25 | 2 23 | 12 57 | 1 33 | 21 23 | 0 12 | 16 13 | 0 59 | 12 47 | 1 52 | 21 52 | 0 5 | 22 31 | 0 52 | 15 8 | 5 48 | 20 10 | 20 25 | 20 37 | | | n.a. |
| T 31 | 2n51 | 13s 1 | 2s42 | 10s 6 | 2s29 | 12s49 | 1n24 | 21s28 | 0n10 | 16s10 | 0s59 | 12s44 | 1s52 | 21n53 | 0n 5 | 22n31 | 0s52 | 15n 8 | 5s48 | 20n11 | 20n26 | 20n38 | | | n.a. |

Julian Day Number = 1697010.5, Delta T = 03h07m32s
Ecliptic obliquity = 23°42'07, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°59'13, Lahiri = - 4°52'12 Julian Calendar 1 March 67 BCE == Greg. Calendar 27 Feb. 067 BCE

The year -66 astronomical counting style corresponds to year 067 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 67 BCE
# geocentric

## APRIL 67 BCE (-66) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 12 25 19 | 8♈ 4'20 | 16♓34 | 11♓17 | 23♒22 | 6♐47 | 19♒24 | 1♓47 | 7♊30 | 20♊53 | 2♊ 9 | 0°R47 | 29♋42 | 24♊50 | n.a. | F 1 |
| S 2 | 12 29 16 | 9° 2'28 | 29°55 | 12°25 | 24°10 | 7° 4 | 19°36 | 1°54 | 7°33 | 20°54 | 2°10 | 0♌38 | 29°39 | 24°57 | n.a. | S 2 |
| S 3 | 12 33 12 | 10° 0'33 | 13♈ 2 | 13°34 | 25° 0 | 7°21 | 19°47 | 2° 0 | 7°35 | 20°55 | 2°11 | 0°27 | 29°36 | 25° 4 | n.a. | S 3 |
| M 4 | 12 37 9 | 10°58'37 | 25°55 | 14°47 | 25°50 | 7°38 | 19°59 | 2° 7 | 7°37 | 20°56 | 2°11 | 0°15 | 29°32 | 25°10 | n.a. | M 4 |
| T 5 | 12 41 6 | 11°56'40 | 8♉32 | 16° 1 | 26°40 | 7°54 | 20°10 | 2°13 | 7°39 | 20°57 | 2°12 | 0° 3 | 29°29 | 25°17 | n.a. | T 5 |
| W 6 | 12 45 2 | 12°54'40 | 20°54 | 17°18 | 27°32 | 8° 9 | 20°22 | 2°20 | 7°42 | 20°58 | 2°13 | 29♋52 | 29°26 | 25°24 | n.a. | W 6 |
| T 7 | 12 48 59 | 13°52'39 | 3♊ 3 | 18°38 | 28°24 | 8°24 | 20°33 | 2°26 | 7°44 | 20°59 | 2°14 | 29°44 | 29°23 | 25°30 | n.a. | T 7 |
| F 8 | 12 52 55 | 14°50'35 | 15° 1 | 19°59 | 29°16 | 8°38 | 20°44 | 2°32 | 7°47 | 21° 0 | 2°16 | 29°37 | 29°20 | 25°37 | n.a. | F 8 |
| S 9 | 12 56 52 | 15°48'30 | 26°52 | 21°23 | 0♓ 9 | 8°52 | 20°56 | 2°38 | 7°49 | 21° 1 | 2°17 | 29°34 | 29°16 | 25°44 | n.a. | S 9 |
| S 10 | 13 0 48 | 16°46'23 | 8♋41 | 22°49 | 1° 3 | 9° 5 | 21° 7 | 2°44 | 7°52 | 21° 2 | 2°18 | 29°32 | 29°13 | 25°50 | n.a. | S 10 |
| M11 | 13 4 45 | 17°44'15 | 20°33 | 24°17 | 1°57 | 9°18 | 21°18 | 2°50 | 7°54 | 21° 4 | 2°19 | 29°D32 | 29°10 | 25°57 | n.a. | M11 |
| T 12 | 13 8 41 | 18°42'04 | 2♌33 | 25°48 | 2°52 | 9°30 | 21°28 | 2°56 | 7°57 | 21° 5 | 2°20 | 29°R32 | 29° 7 | 26° 4 | n.a. | T 12 |
| W13 | 13 12 38 | 19°39'51 | 14°46 | 27°20 | 3°47 | 9°42 | 21°39 | 3° 2 | 7°59 | 21° 6 | 2°21 | 29°31 | 29° 4 | 26°10 | n.a. | W13 |
| T 14 | 13 16 35 | 20°37'37 | 27°19 | 28°55 | 4°43 | 9°53 | 21°50 | 3° 8 | 8° 2 | 21° 7 | 2°22 | 29°29 | 29° 1 | 26°17 | n.a. | T 14 |
| F 15 | 13 20 31 | 21°35'21 | 10♍14 | 0♈31 | 5°39 | 10° 3 | 22° 0 | 3°14 | 8° 5 | 21° 9 | 2°23 | 29°24 | 28°57 | 26°24 | n.a. | F 15 |
| S 16 | 13 24 28 | 22°33'03 | 23°33 | 2°10 | 6°36 | 10°13 | 22°11 | 3°20 | 8° 8 | 21°10 | 2°24 | 29°17 | 28°54 | 26°30 | n.a. | S 16 |
| S 17 | 13 28 24 | 23°30'43 | 7♎17 | 3°51 | 7°33 | 10°22 | 22°21 | 3°26 | 8°10 | 21°11 | 2°25 | 29° 7 | 28°51 | 26°37 | n.a. | S 17 |
| M18 | 13 32 21 | 24°28'22 | 21°24 | 5°34 | 8°31 | 10°31 | 22°31 | 3°31 | 8°13 | 21°13 | 2°27 | 28°56 | 28°48 | 26°44 | n.a. | M18 |
| T 19 | 13 36 17 | 25°26'00 | 5♏49 | 7°19 | 9°29 | 10°39 | 22°41 | 3°37 | 8°16 | 21°14 | 2°28 | 28°44 | 28°45 | 26°50 | n.a. | T 19 |
| W20 | 13 40 14 | 26°23'36 | 20°25 | 9° 6 | 10°27 | 10°46 | 22°51 | 3°42 | 8°19 | 21°15 | 2°29 | 28°33 | 28°42 | 26°57 | n.a. | W20 |
| T 21 | 13 44 10 | 27°21'12 | 5♐ 4 | 10°55 | 11°26 | 10°52 | 23° 1 | 3°48 | 8°22 | 21°17 | 2°30 | 28°25 | 28°38 | 27° 4 | n.a. | T 21 |
| F 22 | 13 48 7 | 28°18'46 | 19°40 | 12°46 | 12°25 | 10°58 | 23°11 | 3°53 | 8°25 | 21°18 | 2°31 | 28°19 | 28°35 | 27°10 | n.a. | F 22 |
| S 23 | 13 52 3 | 29°16'19 | 4♑ 8 | 14°39 | 13°24 | 11° 4 | 23°21 | 3°59 | 8°28 | 21°20 | 2°33 | 28°16 | 28°32 | 27°17 | n.a. | S 23 |
| S 24 | 13 56 0 | 0♉13'51 | 18°24 | 16°35 | 14°24 | 11° 8 | 23°30 | 4° 4 | 8°31 | 21°21 | 2°34 | 28°15 | 28°29 | 27°24 | n.a. | S 24 |
| M25 | 13 59 57 | 1°11'22 | 2♒26 | 18°32 | 15°24 | 11°12 | 23°40 | 4° 9 | 8°34 | 21°23 | 2°35 | 28°15 | 28°26 | 27°30 | n.a. | M25 |
| T 26 | 14 3 53 | 2° 8'52 | 16°14 | 20°31 | 16°25 | 11°15 | 23°49 | 4°14 | 8°37 | 21°25 | 2°36 | 28°14 | 28°22 | 27°37 | n.a. | T 26 |
| W27 | 14 7 50 | 3° 6'21 | 29°48 | 22°32 | 17°25 | 11°17 | 23°58 | 4°19 | 8°40 | 21°26 | 2°38 | 28°12 | 28°19 | 27°44 | n.a. | W27 |
| T 28 | 14 11 46 | 4° 3'49 | 13♓10 | 24°35 | 18°26 | 11°19 | 24° 7 | 4°24 | 8°43 | 21°28 | 2°39 | 28° 8 | 28°16 | 27°50 | n.a. | T 28 |
| F 29 | 14 15 43 | 5° 1'17 | 26°20 | 26°40 | 19°28 | 11°20 | 24°16 | 4°29 | 8°46 | 21°29 | 2°40 | 28° 1 | 28°13 | 27°57 | n.a. | F 29 |
| S 30 | 14 19 39 | 5♉58'43 | 9♈19 | 28♈46 | 20♓29 | 11°R20 | 24♒25 | 4♓34 | 8♊49 | 21♊31 | 2♊42 | 27♋51 | 28♋10 | 28♊ 4 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 3n14 | 8s41 | 3s38 | 9s46 | 2s33 | 12s41 | 1n16 | 21s33 | 0n 8 | 16s 6 | 0s59 | 12s42 | 1s53 | 21n53 | 0n 5 | 22n31 | 0s52 | 15n 8 | 5s48 | 20n12 | 20n26 | 20n39 | | n.a. |
| S 2 | 3 37 | 4 0 | 4 20 | 9 23 | 2 37 | 12 32 | 1 8 | 21 38 | 0 5 | 16 2 | 0 59 | 12 40 | 1 53 | 21 54 | 0 5 | 22 32 | 0 52 | 15 9 | 5 48 | 20 14 | 20 27 | 20 40 | | n.a. |
| S 3 | 4 0 | 0n47 | 4 48 | 8 59 | 2 40 | 12 23 | 1 1 | 21 43 | 0 3 | 15 59 | 1 0 | 12 38 | 1 53 | 21 54 | 0 5 | 22 32 | 0 52 | 15 9 | 5 47 | 20 17 | 20 28 | 20 41 | | n.a. |
| M 4 | 4 23 | 5 27 | 5 1 | 8 33 | 2 43 | 12 13 | 0 53 | 21 48 | 0 1 | 15 55 | 1 0 | 12 36 | 1 53 | 21 54 | 0 5 | 22 32 | 0 52 | 15 9 | 5 47 | 20 19 | 20 28 | 20 42 | | n.a. |
| T 5 | 4 46 | 9 47 | 4 59 | 8 6 | 2 45 | 12 3 | 0 46 | 21 53 | 0s 1 | 15 52 | 1 0 | 12 33 | 1 53 | 21 55 | 0 5 | 22 32 | 0 52 | 15 10 | 5 47 | 20 22 | 20 29 | 20 43 | | n.a. |
| W 6 | 5 9 | 13 39 | 4 42 | 7 37 | 2 46 | 11 52 | 0 39 | 21 58 | 0 4 | 15 48 | 1 0 | 12 31 | 1 53 | 21 55 | 0 5 | 22 32 | 0 52 | 15 10 | 5 47 | 20 24 | 20 30 | 20 44 | | n.a. |
| T 7 | 5 32 | 16 52 | 4 13 | 7 6 | 2 47 | 11 40 | 0 31 | 22 3 | 0 6 | 15 45 | 1 0 | 12 29 | 1 54 | 21 55 | 0 5 | 22 32 | 0 52 | 15 10 | 5 47 | 20 26 | 20 30 | 20 45 | | n.a. |
| F 8 | 5 55 | 19 19 | 3 33 | 6 33 | 2 47 | 11 28 | 0 25 | 22 8 | 0 9 | 15 42 | 1 1 | 12 27 | 1 54 | 21 56 | 0 5 | 22 32 | 0 51 | 15 11 | 5 47 | 20 27 | 20 31 | 20 46 | | n.a. |
| S 9 | 6 17 | 20 56 | 2 44 | 6 0 | 2 46 | 11 16 | 0 18 | 22 12 | 0 11 | 15 38 | 1 1 | 12 25 | 1 54 | 21 56 | 0 5 | 22 32 | 0 51 | 15 11 | 5 46 | 20 28 | 20 32 | 20 47 | | n.a. |
| S 10 | 6 40 | 21 37 | 1 48 | 5 24 | 2 45 | 11 3 | 0 11 | 22 17 | 0 14 | 15 35 | 1 1 | 12 23 | 1 54 | 21 57 | 0 5 | 22 32 | 0 51 | 15 11 | 5 46 | 20 28 | 20 32 | 20 48 | | n.a. |
| M11 | 7 2 | 21 20 | 0 48 | 4 47 | 2 43 | 10 49 | 0 5 | 22 22 | 0 17 | 15 31 | 1 1 | 12 21 | 1 54 | 21 57 | 0 5 | 22 33 | 0 51 | 15 12 | 5 46 | 20 28 | 20 33 | 20 49 | | n.a. |
| T 12 | 7 24 | 20 4 | 0n16 | 4 9 | 2 41 | 10 35 | 0s 2 | 22 26 | 0 19 | 15 28 | 1 1 | 12 19 | 1 54 | 21 58 | 0 5 | 22 33 | 0 51 | 15 12 | 5 46 | 20 28 | 20 34 | 20 50 | | n.a. |
| W13 | 7 46 | 17 51 | 1 20 | 3 29 | 2 38 | 10 21 | 0 8 | 22 31 | 0 22 | 15 25 | 1 2 | 12 17 | 1 55 | 21 58 | 0 5 | 22 33 | 0 51 | 15 12 | 5 46 | 20 28 | 20 34 | 20 51 | | n.a. |
| T 14 | 8 8 | 14 45 | 2 22 | 2 48 | 2 35 | 10 6 | 0 14 | 22 35 | 0 25 | 15 21 | 1 2 | 12 15 | 1 55 | 21 58 | 0 5 | 22 33 | 0 51 | 15 13 | 5 46 | 20 29 | 20 35 | 20 52 | | n.a. |
| F 15 | 8 30 | 10 52 | 3 18 | 2 6 | 2 31 | 9 50 | 0 20 | 22 39 | 0 28 | 15 18 | 1 2 | 12 13 | 1 55 | 21 59 | 0 5 | 22 33 | 0 51 | 15 13 | 5 46 | 20 30 | 20 36 | 20 53 | | n.a. |
| S 16 | 8 52 | 6 20 | 4 5 | 1 22 | 2 26 | 9 35 | 0 25 | 22 44 | 0 31 | 15 15 | 1 2 | 12 11 | 1 55 | 21 59 | 0 5 | 22 33 | 0 51 | 15 13 | 5 45 | 20 32 | 20 36 | 20 54 | | n.a. |
| S 17 | 9 14 | 1 21 | 4 39 | 0 37 | 2 21 | 9 18 | 0 31 | 22 48 | 0 34 | 15 12 | 1 3 | 12 9 | 1 55 | 22 0 | 0 5 | 22 33 | 0 51 | 15 14 | 5 45 | 20 34 | 20 37 | 20 55 | | n.a. |
| M18 | 9 35 | 3s50 | 4 58 | 0n10 | 2 16 | 9 2 | 0 36 | 22 52 | 0 37 | 15 9 | 1 3 | 12 7 | 1 56 | 22 0 | 0 5 | 22 33 | 0 51 | 15 14 | 5 45 | 20 36 | 20 38 | 20 55 | | n.a. |
| T 19 | 9 56 | 8 55 | 4 58 | 0 57 | 2 9 | 8 44 | 0 41 | 22 57 | 0 40 | 15 6 | 1 3 | 12 5 | 1 56 | 22 1 | 0 5 | 22 34 | 0 51 | 15 14 | 5 45 | 20 38 | 20 38 | 20 56 | | n.a. |
| W20 | 10 18 | 13 34 | 4 39 | 1 46 | 2 3 | 8 27 | 0 47 | 23 1 | 0 43 | 15 2 | 1 3 | 12 3 | 1 56 | 22 1 | 0 5 | 22 34 | 0 51 | 15 15 | 5 45 | 20 41 | 20 39 | 20 57 | | n.a. |
| T 21 | 10 39 | 17 25 | 4 2 | 2 36 | 1 56 | 8 9 | 0 51 | 23 5 | 0 46 | 14 59 | 1 3 | 12 1 | 1 56 | 22 2 | 0 5 | 22 34 | 0 51 | 15 15 | 5 45 | 20 42 | 20 40 | 20 58 | | n.a. |
| F 22 | 10 59 | 20 10 | 3 9 | 3 26 | 1 48 | 7 51 | 0 56 | 23 9 | 0 49 | 14 56 | 1 4 | 12 0 | 1 56 | 22 2 | 0 5 | 22 34 | 0 51 | 15 16 | 5 45 | 20 43 | 20 40 | 20 59 | | n.a. |
| S 23 | 11 20 | 21 34 | 2 4 | 4 18 | 1 40 | 7 32 | 1 1 | 23 13 | 0 53 | 14 53 | 1 4 | 11 58 | 1 57 | 22 3 | 0 5 | 22 34 | 0 51 | 15 16 | 5 45 | 20 44 | 20 41 | 21 0 | | n.a. |
| S 24 | 11 41 | 21 34 | 0 52 | 5 11 | 1 31 | 7 13 | 1 5 | 23 17 | 0 56 | 14 50 | 1 4 | 11 56 | 1 57 | 22 3 | 0 5 | 22 34 | 0 51 | 15 16 | 5 44 | 20 44 | 20 41 | 21 1 | | n.a. |
| M25 | 12 1 | 20 12 | 0s22 | 6 4 | 1 22 | 6 53 | 1 10 | 23 21 | 1 0 | 14 48 | 1 4 | 11 54 | 1 57 | 22 4 | 0 5 | 22 34 | 0 51 | 15 17 | 5 44 | 20 44 | 20 42 | 21 2 | | n.a. |
| T 26 | 12 21 | 17 38 | 1 34 | 6 58 | 1 13 | 6 33 | 1 14 | 23 25 | 1 3 | 14 45 | 1 5 | 11 53 | 1 57 | 22 4 | 0 5 | 22 34 | 0 51 | 15 17 | 5 44 | 20 44 | 20 43 | 21 3 | | n.a. |
| W27 | 12 41 | 14 8 | 2 39 | 7 53 | 1 3 | 6 13 | 1 18 | 23 29 | 1 7 | 14 42 | 1 5 | 11 51 | 1 57 | 22 5 | 0 5 | 22 35 | 0 51 | 15 17 | 5 44 | 20 45 | 20 43 | 21 4 | | n.a. |
| T 28 | 13 1 | 9 58 | 3 34 | 8 48 | 0 54 | 5 53 | 1 22 | 23 33 | 1 10 | 14 39 | 1 5 | 11 49 | 1 58 | 22 5 | 0 5 | 22 35 | 0 51 | 15 18 | 5 44 | 20 46 | 20 44 | 21 4 | | n.a. |
| F 29 | 13 20 | 5 23 | 4 16 | 9 43 | 0 43 | 5 32 | 1 26 | 23 36 | 1 14 | 14 36 | 1 5 | 11 48 | 1 58 | 22 6 | 0 5 | 22 35 | 0 51 | 15 18 | 5 44 | 20 47 | 20 45 | 21 5 | | n.a. |
| S 30 | 13n40 | 0s38 | 4s45 | 10n39 | 0s33 | 5s11 | 1s30 | 23s40 | 1s18 | 14s33 | 1s 6 | 11s46 | 1s58 | 22n 6 | 0n 5 | 22n35 | 0s51 | 15n18 | 5s44 | 20n49 | 20n45 | 21n 6 | | n.a. |

Julian Day Number = 1697041.5, Delta T = 03h07m31s
Ecliptic obliquity = 23°42'07, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°59'08, Lahiri = - 4°52'08 Julian Calendar 1 Apr. 67 BCE == Greg. Calendar 30 March 067 BCE

The year -66 astronomical counting style corresponds to year 067 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 67 BCE
# geocentric

## MAY 67 BCE (-66) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 14 23 36 | 6♉56'09 | 22♈ 6 | 0♉54 | 21♓31 | 11°R19 | 24♒34 | 4♓39 | 8♊52 | 21♊33 | 2♊43 | 27°R40 | 28♋ 7 | 28♊10 | n.a. | S 1 |
| M 2 | 14 27 32 | 7°53'33 | 4♉41 | 3° 3 | 22°33 | 11♐18 | 24°42 | 4°44 | 8°55 | 21°34 | 2°44 | 27♋27 | 28° 3 | 28°17 | n.a. | M 2 |
| T 3 | 14 31 29 | 8°50'57 | 17° 5 | 5°13 | 23°36 | 11°16 | 24°51 | 4°48 | 8°59 | 21°36 | 2°46 | 27°14 | 28° 0 | 28°24 | n.a. | T 3 |
| W 4 | 14 35 26 | 9°48'19 | 29°17 | 7°24 | 24°38 | 11°13 | 24°59 | 4°53 | 9° 2 | 21°38 | 2°47 | 27° 2 | 27°57 | 28°30 | n.a. | W 4 |
| T 5 | 14 39 22 | 10°45'41 | 11♊19 | 9°35 | 25°41 | 11° 9 | 25° 7 | 4°57 | 9° 5 | 21°40 | 2°48 | 26°52 | 27°54 | 28°37 | n.a. | T 5 |
| F 6 | 14 43 19 | 11°43'01 | 23°13 | 11°47 | 26°44 | 11° 5 | 25°15 | 5° 2 | 9° 8 | 21°41 | 2°50 | 26°45 | 27°51 | 28°44 | n.a. | F 6 |
| S 7 | 14 47 15 | 12°40'21 | 5♋ 1 | 13°59 | 27°48 | 10°59 | 25°23 | 5° 6 | 9°12 | 21°43 | 2°51 | 26°41 | 27°47 | 28°50 | n.a. | S 7 |
| S 8 | 14 51 12 | 13°37'39 | 16°49 | 16°10 | 28°51 | 10°54 | 25°31 | 5°10 | 9°15 | 21°45 | 2°52 | 26°39 | 27°44 | 28°57 | n.a. | S 8 |
| M 9 | 14 55 8 | 14°34'56 | 28°39 | 18°21 | 29°55 | 10°47 | 25°38 | 5°14 | 9°18 | 21°47 | 2°54 | 26°D39 | 27°41 | 29° 4 | n.a. | M 9 |
| T 10 | 14 59 5 | 15°32'12 | 10♌38 | 20°32 | 0♈59 | 10°39 | 25°46 | 5°19 | 9°22 | 21°49 | 2°55 | 26°R39 | 27°38 | 29°10 | n.a. | T 10 |
| W11 | 15 3 1 | 16°29'28 | 22°51 | 22°41 | 2° 3 | 10°31 | 25°53 | 5°23 | 9°25 | 21°51 | 2°57 | 26°39 | 27°35 | 29°17 | n.a. | W11 |
| T 12 | 15 6 58 | 17°26'42 | 5♍22 | 24°49 | 3° 8 | 10°23 | 26° 0 | 5°26 | 9°28 | 21°53 | 2°58 | 26°37 | 27°32 | 29°24 | n.a. | T 12 |
| F 13 | 15 10 55 | 18°23'55 | 18°17 | 26°56 | 4°12 | 10°13 | 26° 7 | 5°30 | 9°32 | 21°54 | 2°59 | 26°34 | 27°28 | 29°30 | n.a. | F 13 |
| S 14 | 15 14 51 | 19°21'07 | 1♎39 | 29° 1 | 5°17 | 10° 3 | 26°14 | 5°34 | 9°35 | 21°56 | 3° 1 | 26°28 | 27°25 | 29°37 | n.a. | S 14 |
| S 15 | 15 18 48 | 20°18'18 | 15°30 | 1♊ 5 | 6°22 | 9°52 | 26°21 | 5°38 | 9°39 | 21°58 | 3° 2 | 26°20 | 27°22 | 29°44 | n.a. | S 15 |
| M16 | 15 22 44 | 21°15'29 | 29°47 | 3° 6 | 7°27 | 9°41 | 26°27 | 5°41 | 9°42 | 22° 0 | 3° 4 | 26°11 | 27°19 | 29°50 | n.a. | M16 |
| T 17 | 15 26 41 | 22°12'39 | 14♏26 | 5° 6 | 8°32 | 9°29 | 26°34 | 5°45 | 9°46 | 22° 2 | 3° 5 | 26° 2 | 27°16 | 29°57 | n.a. | T 17 |
| W18 | 15 30 37 | 23° 9'48 | 29°21 | 7° 3 | 9°38 | 9°16 | 26°40 | 5°48 | 9°49 | 22° 4 | 3° 7 | 25°53 | 27°13 | 0♋ 4 | n.a. | W18 |
| T 19 | 15 34 34 | 24° 6'57 | 14♐22 | 8°58 | 10°44 | 9° 3 | 26°46 | 5°51 | 9°53 | 22° 6 | 3° 8 | 25°46 | 27° 9 | 0°10 | n.a. | T 19 |
| F 20 | 15 38 31 | 25° 4'06 | 29°20 | 10°51 | 11°49 | 8°49 | 26°52 | 5°55 | 9°56 | 22° 8 | 3° 9 | 25°41 | 27° 6 | 0°17 | n.a. | F 20 |
| S 21 | 15 42 27 | 26° 1'14 | 14♑ 7 | 12°42 | 12°55 | 8°35 | 26°58 | 5°58 | 10° 0 | 22°10 | 3°11 | 25°38 | 27° 3 | 0°24 | n.a. | S 21 |
| S 22 | 15 46 24 | 26°58'22 | 28°38 | 14°31 | 14° 1 | 8°20 | 27° 3 | 6° 1 | 10° 3 | 22°12 | 3°12 | 25°D38 | 27° 0 | 0°30 | n.a. | S 22 |
| M23 | 15 50 20 | 27°55'31 | 12♒49 | 16°17 | 15° 8 | 8° 5 | 27° 9 | 6° 4 | 10° 7 | 22°14 | 3°14 | 25°39 | 26°57 | 0°37 | n.a. | M23 |
| T 24 | 15 54 17 | 28°52'39 | 26°40 | 18° 1 | 16°14 | 7°49 | 27°14 | 6° 7 | 10°10 | 22°16 | 3°15 | 25°R39 | 26°53 | 0°44 | n.a. | T 24 |
| W25 | 15 58 13 | 29°49'46 | 10♓10 | 19°43 | 17°21 | 7°33 | 27°19 | 6°10 | 10°14 | 22°19 | 3°17 | 25°39 | 26°50 | 0°50 | n.a. | W25 |
| T 26 | 16 2 10 | 0♊46'54 | 23°23 | 21°22 | 18°27 | 7°16 | 27°24 | 6°12 | 10°17 | 22°21 | 3°18 | 25°36 | 26°47 | 0°57 | n.a. | T 26 |
| F 27 | 16 6 6 | 1°44'02 | 6♈20 | 22°59 | 19°34 | 6°59 | 27°29 | 6°15 | 10°21 | 22°23 | 3°20 | 25°32 | 26°44 | 1° 4 | n.a. | F 27 |
| S 28 | 16 10 3 | 2°41'10 | 19° 2 | 24°34 | 20°41 | 6°42 | 27°33 | 6°17 | 10°25 | 22°25 | 3°21 | 25°25 | 26°41 | 1°10 | n.a. | S 28 |
| S 29 | 16 14 0 | 3°38'18 | 1♉32 | 26° 6 | 21°48 | 6°25 | 27°38 | 6°20 | 10°28 | 22°27 | 3°23 | 25°17 | 26°38 | 1°17 | n.a. | S 29 |
| M30 | 16 17 56 | 4°35'26 | 13°51 | 27°36 | 22°56 | 6° 7 | 27°42 | 6°22 | 10°32 | 22°29 | 3°24 | 25° 8 | 26°34 | 1°24 | n.a. | M30 |
| T 31 | 16 21 53 | 5♊32'34 | 26♉ 1 | 29♊ 4 | 24♈ 3 | 5♐49 | 27♒46 | 6♓24 | 10♊35 | 22♊31 | 3♊25 | 24♋59 | 26♋31 | 1♋30 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| S 1 | 13n59 | 4n 5 | 4s59 | 11n34 | 0s22 | 4s49 | 1s33 | 23s44 | 1s22 | 14s31 | 1s 6 | 11s45 | 1s58 | 22n 7 | 0n 5 | 22n35 | 0s51 | 15n19 | 5s44 | 20n51 | 20n46 | 21n 7 | | | n.a. |
| M 2 | 14 18 | 8 33 | 4 58 | 12 29 | 0 12 | 4 27 | 1 36 | 23 47 | 1 25 | 14 28 | 1 6 | 11 43 | 1 59 | 22 7 | 0 5 | 22 35 | 0 51 | 15 19 | 5 44 | 20 54 | 20 47 | 21 8 | | | n.a. |
| T 3 | 14 36 | 12 36 | 4 43 | 13 23 | 0 1 | 4 5 | 1 40 | 23 51 | 1 29 | 14 26 | 1 6 | 11 42 | 1 59 | 22 8 | 0 5 | 22 35 | 0 51 | 15 19 | 5 43 | 20 57 | 20 47 | 21 9 | | | n.a. |
| W 4 | 14 55 | 16 4 | 4 15 | 14 17 | 0n10 | 3 43 | 1 43 | 23 54 | 1 33 | 14 23 | 1 7 | 11 40 | 1 59 | 22 8 | 0 5 | 22 36 | 0 51 | 15 20 | 5 43 | 20 59 | 20 48 | 21 10 | | | n.a. |
| T 5 | 15 13 | 18 49 | 3 36 | 15 9 | 0 20 | 3 21 | 1 46 | 23 58 | 1 37 | 14 20 | 1 7 | 11 39 | 1 59 | 22 9 | 0 5 | 22 36 | 0 51 | 15 20 | 5 43 | 21 1 | 20 49 | 21 10 | | | n.a. |
| F 6 | 15 31 | 20 44 | 2 48 | 16 1 | 0 30 | 2 58 | 1 49 | 24 1 | 1 41 | 14 18 | 1 7 | 11 37 | 1 59 | 22 9 | 0 5 | 22 36 | 0 51 | 15 21 | 5 43 | 21 2 | 20 49 | 21 11 | | | n.a. |
| S 7 | 15 49 | 21 44 | 1 52 | 16 51 | 0 40 | 2 35 | 1 51 | 24 5 | 1 45 | 14 16 | 1 8 | 11 36 | 2 0 | 22 10 | 0 5 | 22 36 | 0 51 | 15 21 | 5 43 | 21 3 | 20 50 | 21 12 | | | n.a. |
| S 8 | 16 6 | 21 46 | 0 52 | 17 39 | 0 50 | 2 12 | 1 54 | 24 8 | 1 50 | 14 13 | 1 8 | 11 34 | 2 0 | 22 10 | 0 5 | 22 36 | 0 51 | 15 21 | 5 43 | 21 3 | 20 50 | 21 13 | | | n.a. |
| M 9 | 16 23 | 20 50 | 0n11 | 18 26 | 0 59 | 1 48 | 1 56 | 24 11 | 1 54 | 14 11 | 1 8 | 11 33 | 2 0 | 22 11 | 0 5 | 22 36 | 0 50 | 15 22 | 5 43 | 21 3 | 20 51 | 21 14 | | | n.a. |
| T 10 | 16 40 | 18 57 | 1 14 | 19 10 | 1 8 | 1 25 | 1 59 | 24 14 | 1 58 | 14 9 | 1 8 | 11 32 | 2 0 | 22 11 | 0 5 | 22 36 | 0 50 | 15 22 | 5 43 | 21 3 | 20 52 | 21 15 | | | n.a. |
| W11 | 16 57 | 16 10 | 2 15 | 19 52 | 1 16 | 1 1 | 2 1 | 24 17 | 2 2 | 14 6 | 1 9 | 11 31 | 2 1 | 22 12 | 0 5 | 22 37 | 0 50 | 15 22 | 5 43 | 21 3 | 20 52 | 21 15 | | | n.a. |
| T 12 | 17 13 | 12 36 | 3 11 | 20 32 | 1 24 | 0 37 | 2 3 | 24 20 | 2 6 | 14 4 | 1 9 | 11 29 | 2 1 | 22 12 | 0 5 | 22 37 | 0 50 | 15 23 | 5 43 | 21 4 | 20 53 | 21 16 | | | n.a. |
| F 13 | 17 30 | 8 20 | 3 59 | 21 10 | 1 31 | 0 13 | 2 5 | 24 23 | 2 11 | 14 2 | 1 9 | 11 28 | 2 1 | 22 13 | 0 5 | 22 37 | 0 50 | 15 23 | 5 43 | 21 4 | 20 54 | 21 17 | | | n.a. |
| S 14 | 17 45 | 3 33 | 4 36 | 21 45 | 1 38 | 0n11 | 2 7 | 24 25 | 2 15 | 14 0 | 1 10 | 11 27 | 2 1 | 22 13 | 0 5 | 22 37 | 0 50 | 15 23 | 5 42 | 21 5 | 20 54 | 21 18 | | | n.a. |
| S 15 | 18 1 | 1s35 | 4 58 | 22 17 | 1 43 | 0 36 | 2 8 | 24 28 | 2 19 | 13 58 | 1 10 | 11 26 | 2 2 | 22 14 | 0 5 | 22 37 | 0 50 | 15 24 | 5 42 | 21 7 | 20 55 | 21 19 | | | n.a. |
| M16 | 18 16 | 6 48 | 5 3 | 22 47 | 1 49 | 1 0 | 2 10 | 24 30 | 2 23 | 13 56 | 1 10 | 11 25 | 2 2 | 22 14 | 0 5 | 22 37 | 0 50 | 15 24 | 5 42 | 21 9 | 20 56 | 21 19 | | | n.a. |
| T 17 | 18 31 | 11 45 | 4 48 | 23 14 | 1 53 | 1 25 | 2 11 | 24 33 | 2 28 | 13 54 | 1 10 | 11 24 | 2 2 | 22 15 | 0 5 | 22 37 | 0 50 | 15 24 | 5 42 | 21 10 | 20 56 | 21 20 | | | n.a. |
| W18 | 18 46 | 16 6 | 4 14 | 23 39 | 1 57 | 1 50 | 2 12 | 24 35 | 2 32 | 13 52 | 1 11 | 11 23 | 2 2 | 22 15 | 0 5 | 22 38 | 0 50 | 15 25 | 5 42 | 21 12 | 20 57 | 21 21 | | | n.a. |
| T 19 | 19 0 | 19 26 | 3 22 | 24 0 | 2 0 | 2 15 | 2 14 | 24 37 | 2 36 | 13 50 | 1 11 | 11 22 | 2 3 | 22 16 | 0 5 | 22 38 | 0 50 | 15 25 | 5 42 | 21 13 | 20 57 | 21 22 | | | n.a. |
| F 20 | 19 15 | 21 26 | 2 16 | 24 20 | 2 2 | 2 40 | 2 15 | 24 39 | 2 41 | 13 48 | 1 11 | 11 21 | 2 3 | 22 16 | 0 5 | 22 38 | 0 50 | 15 25 | 5 42 | 21 14 | 20 58 | 21 23 | | | n.a. |
| S 21 | 19 28 | 21 56 | 1 1 | 24 37 | 2 4 | 3 5 | 2 16 | 24 41 | 2 45 | 13 47 | 1 12 | 11 20 | 2 3 | 22 17 | 0 5 | 22 38 | 0 50 | 15 26 | 5 42 | 21 15 | 20 59 | 21 23 | | | n.a. |
| S 22 | 19 42 | 20 55 | 0s16 | 24 51 | 2 4 | 3 30 | 2 17 | 24 43 | 2 49 | 13 45 | 1 12 | 11 19 | 2 3 | 22 17 | 0 5 | 22 38 | 0 50 | 15 26 | 5 42 | 21 15 | 20 59 | 21 24 | | | n.a. |
| M23 | 19 55 | 18 36 | 1 31 | 25 3 | 2 5 | 3 55 | 2 17 | 24 45 | 2 53 | 13 44 | 1 12 | 11 18 | 2 4 | 22 18 | 0 5 | 22 38 | 0 50 | 15 26 | 5 42 | 21 15 | 21 0 | 21 25 | | | n.a. |
| T 24 | 20 8 | 15 14 | 2 38 | 25 13 | 2 4 | 4 20 | 2 18 | 24 46 | 2 58 | 13 42 | 1 12 | 11 17 | 2 4 | 22 19 | 0 5 | 22 38 | 0 50 | 15 27 | 5 42 | 21 15 | 21 1 | 21 26 | | | n.a. |
| W25 | 20 20 | 11 9 | 3 35 | 25 20 | 2 3 | 4 45 | 2 18 | 24 48 | 3 2 | 13 40 | 1 13 | 11 16 | 2 4 | 22 19 | 0 5 | 22 39 | 0 50 | 15 27 | 5 42 | 21 15 | 21 1 | 21 26 | | | n.a. |
| T 26 | 20 32 | 6 37 | 4 20 | 25 26 | 2 1 | 5 11 | 2 19 | 24 49 | 3 6 | 13 39 | 1 13 | 11 16 | 2 4 | 22 20 | 0 5 | 22 39 | 0 50 | 15 27 | 5 42 | 21 15 | 21 2 | 21 27 | | | n.a. |
| F 27 | 20 44 | 1 53 | 4 50 | 25 29 | 1 58 | 5 36 | 2 19 | 24 50 | 3 10 | 13 38 | 1 13 | 11 15 | 2 5 | 22 20 | 0 5 | 22 39 | 0 50 | 15 28 | 5 42 | 21 16 | 21 2 | 21 28 | | | n.a. |
| S 28 | 20 56 | 2n51 | 5 4 | 25 30 | 1 55 | 6 1 | 2 19 | 24 51 | 3 14 | 13 36 | 1 14 | 11 14 | 2 5 | 22 21 | 0 5 | 22 39 | 0 50 | 15 28 | 5 42 | 21 17 | 21 3 | 21 29 | | | n.a. |
| S 29 | 21 7 | 7 23 | 5 5 | 25 30 | 1 51 | 6 26 | 2 19 | 24 52 | 3 18 | 13 35 | 1 14 | 11 13 | 2 5 | 22 21 | 0 6 | 22 39 | 0 50 | 15 28 | 5 41 | 21 19 | 21 4 | 21 29 | | | n.a. |
| M30 | 21 17 | 11 33 | 4 50 | 25 28 | 1 47 | 6 51 | 2 19 | 24 53 | 3 22 | 13 34 | 1 14 | 11 13 | 2 6 | 22 22 | 0 6 | 22 39 | 0 50 | 15 29 | 5 41 | 21 20 | 21 4 | 21 30 | | | n.a. |
| T 31 | 21n28 | 15n13 | 4s23 | 25n24 | 1n42 | 7n16 | 2s19 | 24s53 | 3s26 | 13s33 | 1s15 | 11s12 | 2s 6 | 22n22 | 0n 6 | 22n39 | 0s50 | 15n29 | 5s41 | 21n22 | 21n 5 | 21n31 | | | n.a. |

Julian Day Number = 1697071.5, Delta T = 03h07m30s
Ecliptic obliquity = 23°42'07, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°59'04, Lahiri = - 4°52'04 Julian Calendar 1 May 67 BCE == Greg. Calendar 29 Apr. 067 BCE

The year -66 astronomical counting style corresponds to year 067 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 67 BCE
# geocentric

## JUNE 67 BCE (-66) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 16 25 49 | 6♊29'42 | 8♊ 3 | 0♋29 | 25♈10 | 5°R32 | 27♒50 | 6♓26 | 10♊39 | 22♊33 | 3♊27 | 24°R50 | 26♋28 | 1♋37 | n.a. | W 1 |
| T 2 | 16 29 46 | 7°26'50 | 19°57 | 1°52 | 26°18 | 5♐14 | 27°53 | 6°28 | 10°43 | 22°36 | 3°28 | 24♋44 | 26°25 | 1°44 | n.a. | T 2 |
| F 3 | 16 33 42 | 8°23'58 | 1♋47 | 3°12 | 27°26 | 4°56 | 27°57 | 6°30 | 10°46 | 22°38 | 3°30 | 24°39 | 26°22 | 1°50 | n.a. | F 3 |
| S 4 | 16 37 39 | 9°21'06 | 13°34 | 4°30 | 28°34 | 4°38 | 28° 0 | 6°32 | 10°50 | 22°40 | 3°31 | 24°36 | 26°19 | 1°57 | n.a. | S 4 |
| S 5 | 16 41 35 | 10°18'14 | 25°21 | 5°45 | 29°42 | 4°20 | 28° 3 | 6°34 | 10°53 | 22°42 | 3°33 | 24°D36 | 26°15 | 2° 4 | n.a. | S 5 |
| M 6 | 16 45 32 | 11°15'22 | 7♌12 | 6°58 | 0♉50 | 4° 3 | 28° 6 | 6°35 | 10°57 | 22°44 | 3°34 | 24°36 | 26°12 | 2°10 | n.a. | M 6 |
| T 7 | 16 49 29 | 12°12'29 | 19°11 | 8° 7 | 1°58 | 3°45 | 28° 9 | 6°37 | 11° 1 | 22°47 | 3°36 | 24°38 | 26° 9 | 2°17 | n.a. | T 7 |
| W 8 | 16 53 25 | 13° 9'37 | 1♍24 | 9°14 | 3° 6 | 3°28 | 28°12 | 6°38 | 11° 4 | 22°49 | 3°37 | 24°39 | 26° 6 | 2°24 | n.a. | W 8 |
| T 9 | 16 57 22 | 14° 6'44 | 13°54 | 10°19 | 4°15 | 3°11 | 28°14 | 6°40 | 11° 8 | 22°51 | 3°39 | 24°R40 | 26° 3 | 2°30 | n.a. | T 9 |
| F 10 | 17 1 18 | 15° 3'51 | 26°46 | 11°20 | 5°23 | 2°55 | 28°16 | 6°41 | 11°11 | 22°53 | 3°40 | 24°39 | 25°59 | 2°37 | n.a. | F 10 |
| S 11 | 17 5 15 | 16° 0'58 | 10♎ 4 | 12°18 | 6°32 | 2°39 | 28°18 | 6°42 | 11°15 | 22°55 | 3°41 | 24°37 | 25°56 | 2°44 | n.a. | S 11 |
| S 12 | 17 9 11 | 16°58'06 | 23°51 | 13°13 | 7°40 | 2°23 | 28°20 | 6°43 | 11°19 | 22°58 | 3°43 | 24°33 | 25°53 | 2°50 | n.a. | S 12 |
| M13 | 17 13 8 | 17°55'13 | 8♏ 6 | 14° 5 | 8°49 | 2° 7 | 28°22 | 6°44 | 11°22 | 23° 0 | 3°44 | 24°28 | 25°50 | 2°57 | n.a. | M13 |
| T 14 | 17 17 4 | 18°52'21 | 22°46 | 14°53 | 9°58 | 1°53 | 28°23 | 6°45 | 11°26 | 23° 2 | 3°46 | 24°23 | 25°47 | 3° 4 | n.a. | T 14 |
| W15 | 17 21 1 | 19°49'29 | 7♐46 | 15°38 | 11° 7 | 1°38 | 28°25 | 6°45 | 11°29 | 23° 4 | 3°47 | 24°18 | 25°44 | 3°10 | n.a. | W15 |
| T 16 | 17 24 58 | 20°46'37 | 22°57 | 16°19 | 12°16 | 1°24 | 28°26 | 6°46 | 11°33 | 23° 6 | 3°48 | 24°15 | 25°40 | 3°17 | n.a. | T 16 |
| F 17 | 17 28 54 | 21°43'46 | 8♑ 9 | 16°56 | 13°25 | 1°11 | 28°26 | 6°47 | 11°36 | 23° 9 | 3°50 | 24°12 | 25°37 | 3°23 | n.a. | F 17 |
| S 18 | 17 32 51 | 22°40'55 | 23°12 | 17°30 | 14°34 | 0°59 | 28°27 | 6°47 | 11°40 | 23°11 | 3°51 | 24°D11 | 25°34 | 3°30 | n.a. | S 18 |
| S 19 | 17 36 47 | 23°38'05 | 7♒59 | 17°59 | 15°44 | 0°47 | 28°28 | 6°47 | 11°44 | 23°13 | 3°53 | 24°12 | 25°31 | 3°37 | n.a. | S 19 |
| M20 | 17 40 44 | 24°35'16 | 22°24 | 18°24 | 16°53 | 0°35 | 28°28 | 6°47 | 11°47 | 23°15 | 3°54 | 24°13 | 25°28 | 3°43 | n.a. | M20 |
| T 21 | 17 44 40 | 25°32'28 | 6♓24 | 18°45 | 18° 3 | 0°24 | 28°R28 | 6°R48 | 11°51 | 23°18 | 3°55 | 24°15 | 25°25 | 3°50 | n.a. | T 21 |
| W22 | 17 48 37 | 26°29'40 | 20° 0 | 19° 1 | 19°12 | 0°14 | 28°28 | 6°48 | 11°54 | 23°20 | 3°57 | 24°16 | 25°21 | 3°57 | n.a. | W22 |
| T 23 | 17 52 34 | 27°26'54 | 3♈12 | 19°12 | 20°22 | 0° 5 | 28°28 | 6°47 | 11°58 | 23°22 | 3°58 | 24°R16 | 25°18 | 4° 3 | n.a. | T 23 |
| F 24 | 17 56 30 | 28°24'08 | 16° 4 | 19°19 | 21°32 | 29♏57 | 28°27 | 6°47 | 12° 1 | 23°24 | 3°59 | 24°14 | 25°15 | 4°10 | n.a. | F 24 |
| S 25 | 18 0 27 | 29°21'24 | 28°38 | 19°R20 | 22°42 | 29°49 | 28°26 | 6°47 | 12° 5 | 23°27 | 4° 1 | 24°12 | 25°12 | 4°17 | n.a. | S 25 |
| S 26 | 18 4 23 | 0♋18'40 | 10♉58 | 19°17 | 23°52 | 29°42 | 28°26 | 6°47 | 12° 8 | 23°29 | 4° 2 | 24° 9 | 25° 9 | 4°23 | n.a. | S 26 |
| M27 | 18 8 20 | 1°15'58 | 23° 6 | 19° 9 | 25° 2 | 29°36 | 28°24 | 6°46 | 12°12 | 23°31 | 4° 3 | 24° 6 | 25° 5 | 4°30 | n.a. | M27 |
| T 28 | 18 12 16 | 2°13'16 | 5♊ 5 | 18°55 | 26°12 | 29°30 | 28°23 | 6°45 | 12°15 | 23°33 | 4° 5 | 24° 2 | 25° 2 | 4°37 | n.a. | T 28 |
| W29 | 18 16 13 | 3°10'35 | 16°59 | 18°37 | 27°22 | 29°26 | 28°22 | 6°45 | 12°19 | 23°35 | 4° 6 | 23°59 | 24°59 | 4°43 | n.a. | W29 |
| T 30 | 18 20 9 | 4♋ 7'56 | 28♊48 | 18♋14 | 28♉33 | 29♏22 | 28♒20 | 6♓44 | 12♊22 | 23♊38 | 4♊ 7 | 23♋56 | 24♋56 | 4♋50 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 21n38 | 18n12 | 3s44 | 25n18 | 1n36 | 7n42 | 2s19 | 24s53 | 3s29 | 13s32 | 1s15 | 11s12 | 2s 6 | 22n23 | 0n 6 | 22n40 | 0s50 | 15n29 | 5s41 | 21n24 | 21n 5 | 21n31 | | n.a. |
| T 2 | 21 48 | 20 23 | 2 56 | 25 11 | 1 30 | 8 7 | 2 19 | 24 54 | 3 33 | 13 31 | 1 15 | 11 11 | 2 6 | 22 23 | 0 6 | 22 40 | 0 50 | 15 30 | 5 41 | 21 25 | 21 6 | 21 32 | | n.a. |
| F 3 | 21 57 | 21 41 | 2 0 | 25 3 | 1 23 | 8 31 | 2 18 | 24 54 | 3 36 | 13 30 | 1 16 | 11 11 | 2 7 | 22 24 | 0 6 | 22 40 | 0 50 | 15 30 | 5 41 | 21 26 | 21 7 | 21 33 | | n.a. |
| S 4 | 22 6 | 22 1 | 1 0 | 24 53 | 1 15 | 8 56 | 2 18 | 24 54 | 3 40 | 13 29 | 1 16 | 11 10 | 2 7 | 22 24 | 0 6 | 22 40 | 0 50 | 15 30 | 5 41 | 21 26 | 21 7 | 21 34 | | n.a. |
| S 5 | 22 14 | 21 22 | 0n 4 | 24 42 | 1 8 | 9 21 | 2 17 | 24 54 | 3 43 | 13 28 | 1 16 | 11 10 | 2 7 | 22 25 | 0 6 | 22 40 | 0 50 | 15 31 | 5 41 | 21 26 | 21 8 | 21 34 | | n.a. |
| M 6 | 22 22 | 19 46 | 1 8 | 24 30 | 0 59 | 9 46 | 2 16 | 24 54 | 3 47 | 13 27 | 1 17 | 11 10 | 2 7 | 22 25 | 0 6 | 22 40 | 0 50 | 15 31 | 5 41 | 21 26 | 21 8 | 21 35 | | n.a. |
| T 7 | 22 30 | 17 17 | 2 10 | 24 17 | 0 50 | 10 10 | 2 16 | 24 53 | 3 50 | 13 27 | 1 17 | 11 9 | 2 8 | 22 26 | 0 6 | 22 40 | 0 50 | 15 31 | 5 41 | 21 26 | 21 9 | 21 36 | | n.a. |
| W 8 | 22 38 | 14 0 | 3 7 | 24 3 | 0 40 | 10 34 | 2 15 | 24 53 | 3 53 | 13 26 | 1 17 | 11 9 | 2 8 | 22 26 | 0 6 | 22 41 | 0 50 | 15 31 | 5 41 | 21 26 | 21 10 | 21 36 | | n.a. |
| T 9 | 22 45 | 10 2 | 3 56 | 23 48 | 0 30 | 10 59 | 2 14 | 24 53 | 3 56 | 13 26 | 1 18 | 11 9 | 2 8 | 22 27 | 0 6 | 22 41 | 0 50 | 15 32 | 5 41 | 21 26 | 21 10 | 21 37 | | n.a. |
| F 10 | 22 51 | 5 30 | 4 36 | 23 33 | 0 20 | 11 23 | 2 13 | 24 52 | 3 59 | 13 25 | 1 18 | 11 9 | 2 9 | 22 27 | 0 6 | 22 41 | 0 50 | 15 32 | 5 41 | 21 26 | 21 11 | 21 38 | | n.a. |
| S 11 | 22 58 | 0 35 | 5 2 | 23 16 | 0 9 | 11 47 | 2 11 | 24 51 | 4 1 | 13 25 | 1 18 | 11 8 | 2 9 | 22 28 | 0 6 | 22 41 | 0 50 | 15 32 | 5 41 | 21 26 | 21 11 | 21 38 | | n.a. |
| S 12 | 23 3 | 4s32 | 5 11 | 23 0 | 0s 2 | 12 10 | 2 10 | 24 51 | 4 4 | 13 24 | 1 19 | 11 8 | 2 9 | 22 28 | 0 6 | 22 41 | 0 50 | 15 33 | 5 41 | 21 27 | 21 12 | 21 39 | | n.a. |
| M13 | 23 9 | 9 35 | 5 3 | 22 43 | 0 14 | 12 34 | 2 9 | 24 50 | 4 6 | 13 24 | 1 19 | 11 8 | 2 9 | 22 29 | 0 6 | 22 41 | 0 50 | 15 33 | 5 41 | 21 28 | 21 13 | 21 40 | | n.a. |
| T 14 | 23 14 | 14 15 | 4 34 | 22 25 | 0 26 | 12 57 | 2 7 | 24 49 | 4 9 | 13 24 | 1 19 | 11 8 | 2 10 | 22 30 | 0 6 | 22 41 | 0 50 | 15 33 | 5 41 | 21 29 | 21 13 | 21 40 | | n.a. |
| W15 | 23 18 | 18 7 | 3 47 | 22 8 | 0 39 | 13 20 | 2 6 | 24 48 | 4 11 | 13 24 | 1 20 | 11 8 | 2 10 | 22 30 | 0 6 | 22 41 | 0 50 | 15 33 | 5 41 | 21 29 | 21 14 | 21 41 | | n.a. |
| T 16 | 23 23 | 20 48 | 2 43 | 21 50 | 0 52 | 13 43 | 2 4 | 24 48 | 4 13 | 13 24 | 1 20 | 11 8 | 2 10 | 22 31 | 0 6 | 22 42 | 0 50 | 15 34 | 5 41 | 21 30 | 21 14 | 21 42 | | n.a. |
| F 17 | 23 26 | 22 0 | 1 27 | 21 32 | 1 5 | 14 5 | 2 3 | 24 47 | 4 15 | 13 24 | 1 20 | 11 8 | 2 11 | 22 31 | 0 6 | 22 42 | 0 50 | 15 34 | 5 41 | 21 31 | 21 15 | 21 42 | | n.a. |
| S 18 | 23 30 | 21 36 | 0 5 | 21 14 | 1 19 | 14 27 | 2 1 | 24 46 | 4 17 | 13 24 | 1 21 | 11 8 | 2 11 | 22 32 | 0 6 | 22 42 | 0 50 | 15 34 | 5 41 | 21 31 | 21 16 | 21 43 | | n.a. |
| S 19 | 23 33 | 19 41 | 1s15 | 20 57 | 1 33 | 14 49 | 1 59 | 24 45 | 4 19 | 13 24 | 1 21 | 11 8 | 2 11 | 22 32 | 0 6 | 22 42 | 0 50 | 15 35 | 5 41 | 21 31 | 21 16 | 21 44 | | n.a. |
| M20 | 23 35 | 16 32 | 2 29 | 20 40 | 1 47 | 15 11 | 1 58 | 24 44 | 4 20 | 13 24 | 1 21 | 11 9 | 2 11 | 22 33 | 0 6 | 22 42 | 0 50 | 15 35 | 5 41 | 21 30 | 21 17 | 21 44 | | n.a. |
| T 21 | 23 38 | 12 31 | 3 31 | 20 23 | 2 1 | 15 33 | 1 56 | 24 43 | 4 22 | 13 24 | 1 21 | 11 9 | 2 12 | 22 33 | 0 6 | 22 42 | 0 50 | 15 35 | 5 41 | 21 30 | 21 17 | 21 45 | | n.a. |
| W22 | 23 39 | 7 59 | 4 20 | 20 7 | 2 15 | 15 54 | 1 54 | 24 43 | 4 23 | 13 25 | 1 22 | 11 9 | 2 12 | 22 33 | 0 6 | 22 42 | 0 50 | 15 35 | 5 41 | 21 30 | 21 18 | 21 46 | | n.a. |
| T 23 | 23 41 | 3 11 | 4 53 | 19 51 | 2 29 | 16 14 | 1 52 | 24 42 | 4 25 | 13 25 | 1 22 | 11 9 | 2 12 | 22 34 | 0 6 | 22 42 | 0 50 | 15 36 | 5 41 | 21 30 | 21 19 | 21 46 | | n.a. |
| F 24 | 23 42 | 1n36 | 5 11 | 19 36 | 2 43 | 16 35 | 1 50 | 24 41 | 4 26 | 13 26 | 1 22 | 11 10 | 2 12 | 22 34 | 0 6 | 22 43 | 0 50 | 15 36 | 5 41 | 21 30 | 21 19 | 21 47 | | n.a. |
| S 25 | 23 42 | 6 14 | 5 13 | 19 22 | 2 57 | 16 55 | 1 47 | 24 41 | 4 27 | 13 26 | 1 23 | 11 10 | 2 13 | 22 35 | 0 6 | 22 43 | 0 50 | 15 36 | 5 41 | 21 31 | 21 20 | 21 47 | | n.a. |
| S 26 | 23 42 | 10 31 | 5 1 | 19 9 | 3 10 | 17 15 | 1 45 | 24 40 | 4 28 | 13 27 | 1 23 | 11 11 | 2 13 | 22 35 | 0 6 | 22 43 | 0 50 | 15 36 | 5 41 | 21 31 | 21 20 | 21 48 | | n.a. |
| M27 | 23 42 | 14 19 | 4 35 | 18 58 | 3 24 | 17 34 | 1 43 | 24 39 | 4 29 | 13 28 | 1 23 | 11 11 | 2 13 | 22 36 | 0 6 | 22 43 | 0 50 | 15 36 | 5 41 | 21 32 | 21 21 | 21 49 | | n.a. |
| T 28 | 23 41 | 17 29 | 3 58 | 18 47 | 3 36 | 17 53 | 1 41 | 24 39 | 4 30 | 13 28 | 1 24 | 11 11 | 2 14 | 22 36 | 0 6 | 22 43 | 0 50 | 15 37 | 5 41 | 21 32 | 21 22 | 21 49 | | n.a. |
| W29 | 23 40 | 19 54 | 3 10 | 18 37 | 3 48 | 18 12 | 1 38 | 24 39 | 4 30 | 13 29 | 1 24 | 11 12 | 2 14 | 22 37 | 0 6 | 22 43 | 0 50 | 15 37 | 5 41 | 21 33 | 21 22 | 21 50 | | n.a. |
| T 30 | 23n38 | 21n27 | 2s14 | 18n29 | 4s 0 | 18n30 | 1s36 | 24s38 | 4s31 | 13s30 | 1s24 | 11s13 | 2s14 | 22n37 | 0n 6 | 22n43 | 0s50 | 15n37 | 5s41 | 21n33 | 21n23 | 21n50 | | n.a. |

Julian Day Number = 1697102.5, Delta T = 03h07m29s
Ecliptic obliquity = 23°42'07, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°59'00, Lahiri = - 4°52'00 Julian Calendar 1 June 67 BCE == Greg. Calendar 30 May 067 BCE

The year -66 astronomical counting style corresponds to year 067 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 67 BCE
# geocentric

## JULY 67 BCE (-66) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 18 24 6 | 5♋ 5'17 | 10♋35 | 17°R46 | 29♉43 | 29°R19 | 28°R18 | 6°R43 | 12♊25 | 23♊40 | 4♊ 9 | 23°R55 | 24♋53 | 4♋57 | n.a. | F 1 |
| S 2 | 18 28 3 | 6° 2'40 | 22°23 | 17♋14 | 0♊54 | 29♏17 | 28♒16 | 6♓42 | 12°29 | 23°42 | 4°10 | 23°D54 | 24°50 | 5° 3 | n.a. | S 2 |
| S 3 | 18 31 59 | 7° 0'03 | 4♌14 | 16°38 | 2° 4 | 29°16 | 28°14 | 6°41 | 12°32 | 23°44 | 4°11 | 23♋54 | 24°46 | 5°10 | n.a. | S 3 |
| M 4 | 18 35 56 | 7°57'27 | 16°10 | 15°59 | 3°15 | 29°D15 | 28°11 | 6°40 | 12°35 | 23°46 | 4°12 | 23°55 | 24°43 | 5°17 | n.a. | M 4 |
| T 5 | 18 39 52 | 8°54'52 | 28°14 | 15°17 | 4°25 | 29°16 | 28° 9 | 6°38 | 12°39 | 23°49 | 4°14 | 23°57 | 24°40 | 5°23 | n.a. | T 5 |
| W 6 | 18 43 49 | 9°52'17 | 10♍31 | 14°32 | 5°36 | 29°17 | 28° 6 | 6°37 | 12°42 | 23°51 | 4°15 | 23°58 | 24°37 | 5°30 | n.a. | W 6 |
| T 7 | 18 47 45 | 10°49'44 | 23° 3 | 13°46 | 6°47 | 29°19 | 28° 3 | 6°35 | 12°45 | 23°53 | 4°16 | 23°59 | 24°34 | 5°37 | n.a. | T 7 |
| F 8 | 18 51 42 | 11°47'11 | 5♎54 | 12°59 | 7°58 | 29°22 | 28° 0 | 6°34 | 12°49 | 23°55 | 4°17 | 23°R59 | 24°31 | 5°43 | n.a. | F 8 |
| S 9 | 18 55 38 | 12°44'39 | 19° 8 | 12°12 | 9° 9 | 29°26 | 27°56 | 6°32 | 12°52 | 23°57 | 4°19 | 23°59 | 24°27 | 5°50 | n.a. | S 9 |
| S 10 | 18 59 35 | 13°42'09 | 2♏47 | 11°27 | 10°20 | 29°31 | 27°53 | 6°30 | 12°55 | 23°59 | 4°20 | 23°59 | 24°24 | 5°57 | n.a. | S 10 |
| M11 | 19 3 32 | 14°39'39 | 16°52 | 10°43 | 11°31 | 29°36 | 27°49 | 6°28 | 12°58 | 24° 1 | 4°21 | 23°58 | 24°21 | 6° 3 | n.a. | M11 |
| T 12 | 19 7 28 | 15°37'10 | 1♐21 | 10° 2 | 12°42 | 29°42 | 27°45 | 6°26 | 13° 2 | 24° 3 | 4°22 | 23°57 | 24°18 | 6°10 | n.a. | T 12 |
| W13 | 19 11 25 | 16°34'42 | 16°12 | 9°24 | 13°54 | 29°49 | 27°41 | 6°24 | 13° 5 | 24° 6 | 4°23 | 23°56 | 24°15 | 6°17 | n.a. | W13 |
| T 14 | 19 15 21 | 17°32'15 | 1♑17 | 8°51 | 15° 5 | 29°57 | 27°37 | 6°22 | 13° 8 | 24° 8 | 4°24 | 23°56 | 24°11 | 6°23 | n.a. | T 14 |
| F 15 | 19 19 18 | 18°29'50 | 16°28 | 8°23 | 16°17 | 0♐ 6 | 27°32 | 6°20 | 13°11 | 24°10 | 4°25 | 23°D55 | 24° 8 | 6°30 | n.a. | F 15 |
| S 16 | 19 23 14 | 19°27'26 | 1♒36 | 8° 1 | 17°28 | 0°15 | 27°28 | 6°17 | 13°14 | 24°12 | 4°27 | 23°55 | 24° 5 | 6°36 | n.a. | S 16 |
| S 17 | 19 27 11 | 20°25'03 | 16°31 | 7°45 | 18°40 | 0°25 | 27°23 | 6°15 | 13°17 | 24°14 | 4°28 | 23°55 | 24° 2 | 6°43 | n.a. | S 17 |
| M18 | 19 31 7 | 21°22'42 | 1♓ 7 | 7°35 | 19°51 | 0°36 | 27°18 | 6°12 | 13°20 | 24°16 | 4°29 | 23°56 | 23°59 | 6°50 | n.a. | M18 |
| T 19 | 19 35 4 | 22°20'23 | 15°18 | 7°D33 | 21° 3 | 0°48 | 27°13 | 6°10 | 13°23 | 24°18 | 4°30 | 23°56 | 23°56 | 6°56 | n.a. | T 19 |
| W20 | 19 39 1 | 23°18'05 | 29° 3 | 7°38 | 22°15 | 1° 0 | 27° 8 | 6° 7 | 13°26 | 24°20 | 4°31 | 23°56 | 23°52 | 7° 3 | n.a. | W20 |
| T 21 | 19 42 57 | 24°15'48 | 12♈21 | 7°50 | 23°27 | 1°13 | 27° 2 | 6° 4 | 13°29 | 24°22 | 4°32 | 23°R56 | 23°49 | 7°10 | n.a. | T 21 |
| F 22 | 19 46 54 | 25°13'34 | 25°14 | 8°10 | 24°39 | 1°27 | 26°57 | 6° 1 | 13°32 | 24°24 | 4°33 | 23°D56 | 23°46 | 7°16 | n.a. | F 22 |
| S 23 | 19 50 50 | 26°11'21 | 7♉47 | 8°37 | 25°51 | 1°41 | 26°51 | 5°58 | 13°35 | 24°26 | 4°34 | 23°56 | 23°43 | 7°23 | n.a. | S 23 |
| S 24 | 19 54 47 | 27° 9'11 | 20° 3 | 9°12 | 27° 3 | 1°56 | 26°45 | 5°55 | 13°38 | 24°28 | 4°35 | 23°56 | 23°40 | 7°30 | n.a. | S 24 |
| M25 | 19 58 43 | 28° 7'02 | 2♊ 5 | 9°55 | 28°15 | 2°12 | 26°39 | 5°52 | 13°41 | 24°30 | 4°36 | 23°57 | 23°36 | 7°36 | n.a. | M25 |
| T 26 | 20 2 40 | 29° 4'55 | 13°59 | 10°44 | 29°27 | 2°28 | 26°33 | 5°49 | 13°43 | 24°32 | 4°37 | 23°57 | 23°33 | 7°43 | n.a. | T 26 |
| W27 | 20 6 36 | 0♌ 2'49 | 25°48 | 11°41 | 0♋39 | 2°45 | 26°26 | 5°46 | 13°46 | 24°34 | 4°37 | 23°58 | 23°30 | 7°50 | n.a. | W27 |
| T 28 | 20 10 33 | 1° 0'46 | 7♋36 | 12°44 | 1°52 | 3° 3 | 26°20 | 5°42 | 13°49 | 24°35 | 4°38 | 23°58 | 23°27 | 7°56 | n.a. | T 28 |
| F 29 | 20 14 30 | 1°58'44 | 19°24 | 13°54 | 3° 4 | 3°21 | 26°14 | 5°39 | 13°52 | 24°37 | 4°39 | 23°R59 | 23°24 | 8° 3 | n.a. | F 29 |
| S 30 | 20 18 26 | 2°56'44 | 1♌16 | 15°10 | 4°17 | 3°40 | 26° 7 | 5°35 | 13°54 | 24°39 | 4°40 | 23°59 | 23°21 | 8°10 | n.a. | S 30 |
| S 31 | 20 22 23 | 3♌54'46 | 13♌15 | 16♋32 | 5♋29 | 4♐ 0 | 26♒ 0 | 5♓32 | 13♊57 | 24♊41 | 4♊41 | 23♋58 | 23♋17 | 8♋16 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 23n36 | 22n 4 | 1s13 | 18n23 | 4s10 | 18n47 | 1s34 | 24s38 | 4s31 | 13s31 | 1s25 | 11s13 | 2s14 | 22n38 | 0n 6 | 22n43 | 0s50 | 15n37 | 5s41 | 21n34 | 21n23 | 21n51 | | n.a. |
| S 2 | 23 34 | 21 41 | 0 8 | 18 18 | 4 19 | 19 5 | 1 31 | 24 38 | 4 32 | 13 32 | 1 25 | 11 14 | 2 15 | 22 38 | 0 6 | 22 43 | 0 50 | 15 38 | 5 41 | 21 34 | 21 24 | 21 52 | | n.a. |
| S 3 | 23 31 | 20 20 | 0n57 | 18 14 | 4 27 | 19 21 | 1 28 | 24 38 | 4 32 | 13 33 | 1 25 | 11 14 | 2 15 | 22 39 | 0 6 | 22 44 | 0 50 | 15 38 | 5 41 | 21 34 | 21 24 | 21 52 | | n.a. |
| M 4 | 23 28 | 18 4 | 2 0 | 18 12 | 4 34 | 19 38 | 1 26 | 24 38 | 4 32 | 13 34 | 1 26 | 11 15 | 2 15 | 22 39 | 0 6 | 22 44 | 0 50 | 15 38 | 5 41 | 21 34 | 21 25 | 21 53 | | n.a. |
| T 5 | 23 24 | 15 0 | 2 59 | 18 12 | 4 39 | 19 54 | 1 23 | 24 38 | 4 32 | 13 35 | 1 26 | 11 16 | 2 15 | 22 40 | 0 6 | 22 44 | 0 50 | 15 38 | 5 41 | 21 33 | 21 26 | 21 53 | | n.a. |
| W 6 | 23 20 | 11 15 | 3 51 | 18 13 | 4 43 | 20 9 | 1 21 | 24 39 | 4 32 | 13 37 | 1 26 | 11 17 | 2 16 | 22 40 | 0 6 | 22 44 | 0 50 | 15 38 | 5 41 | 21 33 | 21 26 | 21 54 | | n.a. |
| T 7 | 23 15 | 6 57 | 4 32 | 18 16 | 4 44 | 20 24 | 1 18 | 24 39 | 4 32 | 13 38 | 1 27 | 11 18 | 2 16 | 22 40 | 0 6 | 22 44 | 0 50 | 15 39 | 5 41 | 21 33 | 21 27 | 21 54 | | n.a. |
| F 8 | 23 10 | 2 14 | 5 2 | 18 21 | 4 44 | 20 38 | 1 15 | 24 40 | 4 32 | 13 39 | 1 27 | 11 18 | 2 16 | 22 41 | 0 6 | 22 44 | 0 50 | 15 39 | 5 41 | 21 33 | 21 27 | 21 55 | | n.a. |
| S 9 | 23 5 | 2s42 | 5 16 | 18 27 | 4 43 | 20 52 | 1 12 | 24 40 | 4 32 | 13 41 | 1 27 | 11 19 | 2 17 | 22 41 | 0 6 | 22 44 | 0 50 | 15 39 | 5 41 | 21 33 | 21 28 | 21 56 | | n.a. |
| S 10 | 22 59 | 7 40 | 5 14 | 18 34 | 4 39 | 21 6 | 1 10 | 24 41 | 4 32 | 13 42 | 1 28 | 11 20 | 2 17 | 22 42 | 0 6 | 22 44 | 0 50 | 15 39 | 5 41 | 21 33 | 21 28 | 21 56 | | n.a. |
| M11 | 22 53 | 12 23 | 4 52 | 18 43 | 4 34 | 21 18 | 1 7 | 24 42 | 4 31 | 13 44 | 1 28 | 11 21 | 2 17 | 22 42 | 0 6 | 22 44 | 0 50 | 15 39 | 5 41 | 21 33 | 21 29 | 21 57 | | n.a. |
| T 12 | 22 47 | 16 32 | 4 12 | 18 53 | 4 27 | 21 31 | 1 4 | 24 43 | 4 31 | 13 46 | 1 28 | 11 22 | 2 17 | 22 43 | 0 6 | 22 45 | 0 50 | 15 40 | 5 41 | 21 33 | 21 30 | 21 57 | | n.a. |
| W13 | 22 40 | 19 45 | 3 15 | 19 5 | 4 18 | 21 42 | 1 1 | 24 44 | 4 31 | 13 47 | 1 28 | 11 23 | 2 18 | 22 43 | 0 6 | 22 45 | 0 50 | 15 40 | 5 41 | 21 33 | 21 30 | 21 58 | | n.a. |
| T 14 | 22 32 | 21 39 | 2 3 | 19 17 | 4 8 | 21 53 | 0 58 | 24 45 | 4 30 | 13 49 | 1 29 | 11 24 | 2 18 | 22 43 | 0 6 | 22 45 | 0 50 | 15 40 | 5 41 | 21 33 | 21 31 | 21 58 | | n.a. |
| F 15 | 22 25 | 21 59 | 0 41 | 19 31 | 3 56 | 22 4 | 0 55 | 24 47 | 4 29 | 13 51 | 1 29 | 11 25 | 2 18 | 22 44 | 0 6 | 22 45 | 0 50 | 15 40 | 5 41 | 21 34 | 21 31 | 21 59 | | n.a. |
| S 16 | 22 16 | 20 43 | 0s43 | 19 45 | 3 43 | 22 14 | 0 53 | 24 48 | 4 29 | 13 53 | 1 29 | 11 26 | 2 18 | 22 44 | 0 6 | 22 45 | 0 50 | 15 40 | 5 41 | 21 34 | 21 32 | 21 59 | | n.a. |
| S 17 | 22 8 | 18 0 | 2 2 | 20 0 | 3 29 | 22 23 | 0 50 | 24 50 | 4 28 | 13 55 | 1 30 | 11 28 | 2 19 | 22 45 | 0 6 | 22 45 | 0 50 | 15 40 | 5 41 | 21 33 | 21 32 | 22 0 | | n.a. |
| M18 | 21 59 | 14 11 | 3 12 | 20 15 | 3 14 | 22 32 | 0 47 | 24 51 | 4 27 | 13 57 | 1 30 | 11 29 | 2 19 | 22 45 | 0 6 | 22 45 | 0 50 | 15 40 | 5 41 | 21 33 | 21 33 | 22 0 | | n.a. |
| T 19 | 21 50 | 9 40 | 4 9 | 20 31 | 2 59 | 22 40 | 0 44 | 24 53 | 4 27 | 13 59 | 1 30 | 11 30 | 2 19 | 22 45 | 0 6 | 22 45 | 0 50 | 15 41 | 5 41 | 21 33 | 21 33 | 22 1 | | n.a. |
| W20 | 21 40 | 4 47 | 4 49 | 20 47 | 2 42 | 22 48 | 0 41 | 24 55 | 4 26 | 14 1 | 1 30 | 11 31 | 2 19 | 22 46 | 0 6 | 22 45 | 0 50 | 15 41 | 5 42 | 21 33 | 21 34 | 22 1 | | n.a. |
| T 21 | 21 30 | 0n 9 | 5 11 | 21 3 | 2 26 | 22 54 | 0 38 | 24 57 | 4 25 | 14 3 | 1 31 | 11 32 | 2 19 | 22 46 | 0 6 | 22 45 | 0 50 | 15 41 | 5 42 | 21 33 | 21 35 | 22 2 | | n.a. |
| F 22 | 21 19 | 4 57 | 5 18 | 21 18 | 2 9 | 23 1 | 0 35 | 24 59 | 4 24 | 14 5 | 1 31 | 11 34 | 2 20 | 22 46 | 0 6 | 22 45 | 0 50 | 15 41 | 5 42 | 21 33 | 21 35 | 22 2 | | n.a. |
| S 23 | 21 9 | 9 24 | 5 9 | 21 33 | 1 52 | 23 6 | 0 32 | 25 1 | 4 23 | 14 7 | 1 31 | 11 35 | 2 20 | 22 47 | 0 6 | 22 45 | 0 50 | 15 41 | 5 42 | 21 33 | 21 36 | 22 3 | | n.a. |
| S 24 | 20 57 | 13 22 | 4 46 | 21 48 | 1 35 | 23 11 | 0 29 | 25 3 | 4 22 | 14 10 | 1 31 | 11 36 | 2 20 | 22 47 | 0 6 | 22 46 | 0 50 | 15 41 | 5 42 | 21 33 | 21 36 | 22 3 | | n.a. |
| M25 | 20 46 | 16 43 | 4 10 | 22 2 | 1 18 | 23 15 | 0 26 | 25 5 | 4 21 | 14 12 | 1 32 | 11 38 | 2 20 | 22 48 | 0 6 | 22 46 | 0 50 | 15 41 | 5 42 | 21 33 | 21 37 | 22 4 | | n.a. |
| T 26 | 20 34 | 19 21 | 3 24 | 22 14 | 1 2 | 23 19 | 0 23 | 25 8 | 4 20 | 14 14 | 1 32 | 11 39 | 2 21 | 22 48 | 0 6 | 22 46 | 0 50 | 15 42 | 5 42 | 21 33 | 21 37 | 22 4 | | n.a. |
| W27 | 20 22 | 21 8 | 2 30 | 22 25 | 0 46 | 23 22 | 0 20 | 25 10 | 4 19 | 14 17 | 1 32 | 11 41 | 2 21 | 22 48 | 0 6 | 22 46 | 0 50 | 15 42 | 5 42 | 21 33 | 21 38 | 22 5 | | n.a. |
| T 28 | 20 9 | 21 59 | 1 30 | 22 35 | 0 30 | 23 24 | 0 17 | 25 12 | 4 18 | 14 19 | 1 32 | 11 42 | 2 21 | 22 49 | 0 6 | 22 46 | 0 50 | 15 42 | 5 42 | 21 33 | 21 38 | 22 5 | | n.a. |
| F 29 | 19 56 | 21 52 | 0 25 | 22 43 | 0 15 | 23 26 | 0 14 | 25 15 | 4 16 | 14 22 | 1 33 | 11 43 | 2 21 | 22 49 | 0 6 | 22 46 | 0 50 | 15 42 | 5 42 | 21 33 | 21 39 | 22 6 | | n.a. |
| S 30 | 19 43 | 20 45 | 0n40 | 22 49 | 0 1 | 23 27 | 0 11 | 25 17 | 4 15 | 14 24 | 1 33 | 11 45 | 2 21 | 22 49 | 0 6 | 22 46 | 0 50 | 15 42 | 5 42 | 21 33 | 21 40 | 22 6 | | n.a. |
| S 31 | 19n29 | 18n42 | 1n45 | 22n52 | 0n13 | 23n27 | 0s 8 | 25s20 | 4s14 | 14s27 | 1s33 | 11s46 | 2s22 | 22n50 | 0n 6 | 22n46 | 0s50 | 15n42 | 5s42 | 21n33 | 21n40 | 22n 6 | | n.a. |

Julian Day Number = 1697132.5, Delta T = 03h07m28s
Ecliptic obliquity = 23°42'07, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°58'56, Lahiri = - 4°51'55 Julian Calendar 1 July 67 BCE == Greg. Calendar 29 June 067 BCE

The year -66 astronomical counting style corresponds to year 067 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 67 BCE
# geocentric

## AUGUST 67 BCE (-66) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 20 26 19 | 4♌52'49 | 25♌21 | 17♋59 | 6♋42 | 4♐20 | 25°R53 | 5°R28 | 13♊59 | 24♊43 | 4♊42 | 23°R57 | 23♋14 | 8♋23 | n.a. | M 1 |
| T 2 | 20 30 16 | 5°50'55 | 7♍37 | 19°31 | 7°54 | 4°41 | 25♒46 | 5♓24 | 14° 2 | 24°45 | 4°43 | 23♋56 | 23°11 | 8°30 | n.a. | T 2 |
| W 3 | 20 34 12 | 6°49'01 | 20° 5 | 21° 7 | 9° 7 | 5° 2 | 25°39 | 5°21 | 14° 4 | 24°46 | 4°43 | 23°54 | 23° 8 | 8°36 | n.a. | W 3 |
| T 4 | 20 38 9 | 7°47'09 | 2♎47 | 22°47 | 10°20 | 5°24 | 25°32 | 5°17 | 14° 7 | 24°48 | 4°44 | 23°52 | 23° 5 | 8°43 | n.a. | T 4 |
| F 5 | 20 42 5 | 8°45'19 | 15°44 | 24°31 | 11°33 | 5°46 | 25°25 | 5°13 | 14° 9 | 24°50 | 4°45 | 23°50 | 23° 2 | 8°50 | n.a. | F 5 |
| S 6 | 20 46 2 | 9°43'30 | 28°58 | 26°17 | 12°46 | 6° 9 | 25°17 | 5° 9 | 14°12 | 24°52 | 4°46 | 23°49 | 22°58 | 8°56 | n.a. | S 6 |
| S 7 | 20 49 59 | 10°41'43 | 12♏32 | 28° 6 | 13°59 | 6°32 | 25°10 | 5° 5 | 14°14 | 24°53 | 4°46 | 23°D49 | 22°55 | 9° 3 | n.a. | S 7 |
| M 8 | 20 53 55 | 11°39'58 | 26°26 | 29°56 | 15°12 | 6°56 | 25° 2 | 5° 1 | 14°16 | 24°55 | 4°47 | 23°50 | 22°52 | 9° 9 | n.a. | M 8 |
| T 9 | 20 57 52 | 12°38'14 | 10♐40 | 1♌49 | 16°25 | 7°20 | 24°55 | 4°57 | 14°19 | 24°57 | 4°48 | 23°51 | 22°49 | 9°16 | n.a. | T 9 |
| W10 | 21 1 48 | 13°36'32 | 25°12 | 3°42 | 17°38 | 7°45 | 24°47 | 4°53 | 14°21 | 24°58 | 4°48 | 23°52 | 22°46 | 9°23 | n.a. | W10 |
| T 11 | 21 5 45 | 14°34'52 | 9♑58 | 5°36 | 18°51 | 8°11 | 24°39 | 4°48 | 14°23 | 25° 0 | 4°49 | 23°53 | 22°42 | 9°29 | n.a. | T 11 |
| F 12 | 21 9 41 | 15°33'13 | 24°54 | 7°31 | 20° 4 | 8°36 | 24°31 | 4°44 | 14°25 | 25° 1 | 4°50 | 23°R53 | 22°39 | 9°36 | n.a. | F 12 |
| S 13 | 21 13 38 | 16°31'36 | 9♒51 | 9°25 | 21°18 | 9° 3 | 24°24 | 4°40 | 14°27 | 25° 3 | 4°50 | 23°53 | 22°36 | 9°43 | n.a. | S 13 |
| S 14 | 21 17 34 | 17°30'01 | 24°41 | 11°20 | 22°31 | 9°29 | 24°16 | 4°35 | 14°30 | 25° 4 | 4°51 | 23°51 | 22°33 | 9°49 | n.a. | S 14 |
| M15 | 21 21 31 | 18°28'28 | 9♓17 | 13°15 | 23°45 | 9°56 | 24° 8 | 4°31 | 14°32 | 25° 6 | 4°51 | 23°48 | 22°30 | 9°56 | n.a. | M15 |
| T 16 | 21 25 28 | 19°26'56 | 23°32 | 15° 9 | 24°58 | 10°24 | 24° 0 | 4°27 | 14°34 | 25° 7 | 4°52 | 23°45 | 22°27 | 10° 3 | n.a. | T 16 |
| W17 | 21 29 24 | 20°25'28 | 7♈22 | 17° 3 | 26°12 | 10°52 | 23°52 | 4°22 | 14°35 | 25° 9 | 4°52 | 23°41 | 22°23 | 10° 9 | n.a. | W17 |
| T 18 | 21 33 21 | 21°24'01 | 20°46 | 18°56 | 27°25 | 11°20 | 23°44 | 4°18 | 14°37 | 25°10 | 4°53 | 23°37 | 22°20 | 10°16 | n.a. | T 18 |
| F 19 | 21 37 17 | 22°22'36 | 3♉44 | 20°48 | 28°39 | 11°48 | 23°36 | 4°13 | 14°39 | 25°12 | 4°53 | 23°35 | 22°17 | 10°23 | n.a. | F 19 |
| S 20 | 21 41 14 | 23°21'14 | 16°19 | 22°40 | 29°53 | 12°17 | 23°28 | 4° 9 | 14°41 | 25°13 | 4°54 | 23°33 | 22°14 | 10°29 | n.a. | S 20 |
| S 21 | 21 45 10 | 24°19'55 | 28°36 | 24°31 | 1♌ 6 | 12°47 | 23°20 | 4° 4 | 14°43 | 25°14 | 4°54 | 23°D33 | 22°11 | 10°36 | n.a. | S 21 |
| M22 | 21 49 7 | 25°18'37 | 10♊37 | 26°21 | 2°20 | 13°17 | 23°12 | 3°59 | 14°45 | 25°16 | 4°55 | 23°34 | 22° 8 | 10°43 | n.a. | M22 |
| T 23 | 21 53 3 | 26°17'22 | 22°30 | 28° 9 | 3°34 | 13°47 | 23° 4 | 3°55 | 14°46 | 25°17 | 4°55 | 23°36 | 22° 4 | 10°49 | n.a. | T 23 |
| W24 | 21 57 0 | 27°16'09 | 4♋17 | 29°57 | 4°48 | 14°17 | 22°56 | 3°50 | 14°48 | 25°18 | 4°55 | 23°37 | 22° 1 | 10°56 | n.a. | W24 |
| T 25 | 22 0 56 | 28°14'59 | 16° 5 | 1♍44 | 6° 2 | 14°48 | 22°48 | 3°45 | 14°49 | 25°19 | 4°56 | 23°39 | 21°58 | 11° 2 | n.a. | T 25 |
| F 26 | 22 4 53 | 29°13'51 | 27°57 | 3°30 | 7°16 | 15°19 | 22°40 | 3°41 | 14°51 | 25°21 | 4°56 | 23°R39 | 21°55 | 11° 9 | n.a. | F 26 |
| S 27 | 22 8 50 | 0♍12'45 | 9♌56 | 5°16 | 8°30 | 15°51 | 22°32 | 3°36 | 14°52 | 25°22 | 4°56 | 23°38 | 21°52 | 11°16 | n.a. | S 27 |
| S 28 | 22 12 46 | 1°11'41 | 22° 5 | 7° 0 | 9°44 | 16°22 | 22°24 | 3°31 | 14°54 | 25°23 | 4°56 | 23°34 | 21°48 | 11°22 | n.a. | S 28 |
| M29 | 22 16 43 | 2°10'39 | 4♍25 | 8°43 | 10°58 | 16°54 | 22°16 | 3°27 | 14°55 | 25°24 | 4°57 | 23°29 | 21°45 | 11°29 | n.a. | M29 |
| T 30 | 22 20 39 | 3° 9'40 | 16°59 | 10°25 | 12°13 | 17°27 | 22° 9 | 3°22 | 14°57 | 25°25 | 4°57 | 23°23 | 21°42 | 11°36 | n.a. | T 30 |
| W31 | 22 24 36 | 4♍ 8'42 | 29♍45 | 12♍ 6 | 13♌27 | 17♐59 | 22♒ 1 | 3♓17 | 14♊58 | 25♊26 | 4♊57 | 23♋16 | 21♋39 | 11♋42 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| M 1 | 19n15 | 15n48 | 2n45 | 22n54 | 0n25 | 23n26 | 0s 5 | 25s23 | 4s13 | 14s29 | 1s33 | 11s48 | 2s22 | 22n50 | 0n 6 | 22n46 | 0s50 | 15n42 | 5s42 | 21n33 | 21n41 | 22n 7 | | | n.a. |
| T 2 | 19 1 | 12 11 | 3 39 | 22 53 | 0 37 | 23 25 | 0 3 | 25 25 | 4 12 | 14 32 | 1 33 | 11 50 | 2 22 | 22 50 | 0 6 | 22 46 | 0 50 | 15 42 | 5 42 | 21 33 | 21 41 | 22 7 | | | n.a. |
| W 3 | 18 46 | 8 0 | 4 23 | 22 49 | 0 48 | 23 23 | 0n 0 | 25 28 | 4 10 | 14 35 | 1 34 | 11 51 | 2 22 | 22 51 | 0 6 | 22 46 | 0 50 | 15 42 | 5 42 | 21 34 | 21 42 | 22 8 | | | n.a. |
| T 4 | 18 31 | 3 24 | 4 55 | 22 43 | 0 58 | 23 21 | 0 3 | 25 31 | 4 9 | 14 37 | 1 34 | 11 53 | 2 22 | 22 51 | 0 6 | 22 46 | 0 50 | 15 42 | 5 42 | 21 34 | 21 42 | 22 8 | | | n.a. |
| F 5 | 18 16 | 1s27 | 5 13 | 22 34 | 1 7 | 23 18 | 0 6 | 25 34 | 4 8 | 14 40 | 1 34 | 11 54 | 2 22 | 22 51 | 0 6 | 22 46 | 0 50 | 15 42 | 5 42 | 21 34 | 21 43 | 22 9 | | | n.a. |
| S 6 | 18 1 | 6 19 | 5 15 | 22 22 | 1 16 | 23 14 | 0 9 | 25 36 | 4 6 | 14 43 | 1 34 | 11 56 | 2 23 | 22 52 | 0 6 | 22 46 | 0 50 | 15 42 | 5 42 | 21 35 | 21 43 | 22 9 | | | n.a. |
| S 7 | 17 45 | 11 1 | 5 0 | 22 7 | 1 23 | 23 9 | 0 12 | 25 39 | 4 5 | 14 45 | 1 34 | 11 58 | 2 23 | 22 52 | 0 6 | 22 46 | 0 50 | 15 43 | 5 43 | 21 35 | 21 44 | 22 9 | | | n.a. |
| M 8 | 17 29 | 15 15 | 4 27 | 21 50 | 1 29 | 23 4 | 0 14 | 25 42 | 4 3 | 14 48 | 1 34 | 11 59 | 2 23 | 22 52 | 0 6 | 22 47 | 0 50 | 15 43 | 5 43 | 21 35 | 21 44 | 22 10 | | | n.a. |
| T 9 | 17 12 | 18 43 | 3 37 | 21 30 | 1 34 | 22 58 | 0 17 | 25 45 | 4 2 | 14 51 | 1 35 | 12 1 | 2 23 | 22 52 | 0 6 | 22 47 | 0 50 | 15 43 | 5 43 | 21 34 | 21 45 | 22 10 | | | n.a. |
| W10 | 16 55 | 21 5 | 2 32 | 21 8 | 1 39 | 22 51 | 0 20 | 25 48 | 4 1 | 14 53 | 1 35 | 12 3 | 2 23 | 22 53 | 0 6 | 22 47 | 0 50 | 15 43 | 5 43 | 21 34 | 21 45 | 22 11 | | | n.a. |
| T 11 | 16 38 | 22 3 | 1 16 | 20 44 | 1 42 | 22 44 | 0 22 | 25 51 | 3 59 | 14 56 | 1 35 | 12 4 | 2 23 | 22 53 | 0 6 | 22 47 | 0 50 | 15 43 | 5 43 | 21 34 | 21 46 | 22 11 | | | n.a. |
| F 12 | 16 21 | 21 29 | 0s 6 | 20 17 | 1 45 | 22 36 | 0 25 | 25 53 | 3 58 | 14 59 | 1 35 | 12 6 | 2 24 | 22 53 | 0 6 | 22 47 | 0 50 | 15 43 | 5 43 | 21 34 | 21 47 | 22 11 | | | n.a. |
| S 13 | 16 3 | 19 22 | 1 27 | 19 48 | 1 47 | 22 27 | 0 28 | 25 56 | 3 56 | 15 2 | 1 35 | 12 8 | 2 24 | 22 53 | 0 6 | 22 47 | 0 50 | 15 43 | 5 43 | 21 34 | 21 47 | 22 12 | | | n.a. |
| S 14 | 15 45 | 15 58 | 2 42 | 19 18 | 1 48 | 22 18 | 0 30 | 25 59 | 3 55 | 15 4 | 1 35 | 12 10 | 2 24 | 22 54 | 0 6 | 22 47 | 0 50 | 15 43 | 5 43 | 21 34 | 21 48 | 22 12 | | | n.a. |
| M15 | 15 27 | 11 38 | 3 45 | 18 45 | 1 49 | 22 8 | 0 33 | 26 2 | 3 53 | 15 7 | 1 35 | 12 11 | 2 24 | 22 54 | 0 6 | 22 47 | 0 50 | 15 43 | 5 43 | 21 35 | 21 48 | 22 12 | | | n.a. |
| T 16 | 15 9 | 6 45 | 4 32 | 18 12 | 1 48 | 21 57 | 0 35 | 26 4 | 3 52 | 15 10 | 1 35 | 12 13 | 2 24 | 22 54 | 0 6 | 22 47 | 0 50 | 15 43 | 5 43 | 21 35 | 21 49 | 22 13 | | | n.a. |
| W17 | 14 50 | 1 39 | 5 1 | 17 36 | 1 48 | 21 46 | 0 38 | 26 7 | 3 50 | 15 13 | 1 36 | 12 15 | 2 24 | 22 54 | 0 6 | 22 47 | 0 50 | 15 43 | 5 43 | 21 36 | 21 49 | 22 13 | | | n.a. |
| T 18 | 14 31 | 3n21 | 5 14 | 17 0 | 1 46 | 21 34 | 0 40 | 26 9 | 3 49 | 15 16 | 1 36 | 12 17 | 2 24 | 22 55 | 0 6 | 22 47 | 0 50 | 15 43 | 5 43 | 21 37 | 21 50 | 22 13 | | | n.a. |
| F 19 | 14 12 | 8 3 | 5 9 | 16 22 | 1 44 | 21 21 | 0 42 | 26 12 | 3 47 | 15 18 | 1 36 | 12 18 | 2 25 | 22 55 | 0 6 | 22 47 | 0 50 | 15 43 | 5 43 | 21 37 | 21 50 | 22 14 | | | n.a. |
| S 20 | 13 53 | 12 17 | 4 50 | 15 43 | 1 42 | 21 8 | 0 45 | 26 14 | 3 45 | 15 21 | 1 36 | 12 20 | 2 25 | 22 55 | 0 6 | 22 47 | 0 50 | 15 43 | 5 44 | 21 37 | 21 51 | 22 14 | | | n.a. |
| S 21 | 13 33 | 15 53 | 4 17 | 15 3 | 1 39 | 20 54 | 0 47 | 26 17 | 3 44 | 15 24 | 1 36 | 12 22 | 2 25 | 22 55 | 0 7 | 22 47 | 0 50 | 15 43 | 5 44 | 21 37 | 21 51 | 22 14 | | | n.a. |
| M22 | 13 14 | 18 45 | 3 34 | 14 22 | 1 36 | 20 39 | 0 49 | 26 19 | 3 42 | 15 27 | 1 36 | 12 24 | 2 25 | 22 56 | 0 7 | 22 47 | 0 50 | 15 43 | 5 44 | 21 37 | 21 52 | 22 15 | | | n.a. |
| T 23 | 12 53 | 20 47 | 2 42 | 13 41 | 1 32 | 20 24 | 0 51 | 26 21 | 3 41 | 15 29 | 1 36 | 12 26 | 2 25 | 22 56 | 0 7 | 22 47 | 0 50 | 15 43 | 5 44 | 21 37 | 21 52 | 22 15 | | | n.a. |
| W24 | 12 33 | 21 54 | 1 44 | 12 59 | 1 28 | 20 8 | 0 53 | 26 23 | 3 39 | 15 32 | 1 36 | 12 27 | 2 25 | 22 56 | 0 7 | 22 47 | 0 50 | 15 43 | 5 44 | 21 37 | 21 53 | 22 15 | | | n.a. |
| T 25 | 12 13 | 22 2 | 0 41 | 12 16 | 1 23 | 19 52 | 0 55 | 26 26 | 3 37 | 15 35 | 1 36 | 12 29 | 2 25 | 22 56 | 0 7 | 22 47 | 0 50 | 15 43 | 5 44 | 21 36 | 21 53 | 22 16 | | | n.a. |
| F 26 | 11 52 | 21 11 | 0n23 | 11 33 | 1 19 | 19 35 | 0 57 | 26 27 | 3 36 | 15 37 | 1 36 | 12 31 | 2 25 | 22 56 | 0 7 | 22 47 | 0 50 | 15 43 | 5 44 | 21 36 | 21 54 | 22 16 | | | n.a. |
| S 27 | 11 31 | 19 22 | 1 28 | 10 49 | 1 14 | 19 17 | 0 59 | 26 29 | 3 34 | 15 40 | 1 36 | 12 33 | 2 25 | 22 57 | 0 7 | 22 47 | 0 50 | 15 43 | 5 44 | 21 37 | 21 54 | 22 16 | | | n.a. |
| S 28 | 11 10 | 16 39 | 2 29 | 10 6 | 1 8 | 18 59 | 1 1 | 26 31 | 3 33 | 15 42 | 1 36 | 12 35 | 2 25 | 22 57 | 0 7 | 22 47 | 0 50 | 15 43 | 5 44 | 21 37 | 21 55 | 22 17 | | | n.a. |
| M29 | 10 49 | 13 9 | 3 24 | 9 21 | 1 3 | 18 41 | 1 3 | 26 33 | 3 31 | 15 45 | 1 36 | 12 36 | 2 25 | 22 57 | 0 7 | 22 47 | 0 50 | 15 43 | 5 44 | 21 38 | 21 55 | 22 17 | | | n.a. |
| T 30 | 10 27 | 9 1 | 4 10 | 8 37 | 0 57 | 18 22 | 1 5 | 26 34 | 3 29 | 15 48 | 1 36 | 12 38 | 2 25 | 22 57 | 0 7 | 22 47 | 0 50 | 15 43 | 5 44 | 21 39 | 21 56 | 22 17 | | | n.a. |
| W31 | 10n 6 | 4n26 | 4n44 | 7n53 | 0n51 | 18n 2 | 1n 7 | 26s36 | 3s28 | 15s50 | 1s36 | 12s40 | 2s25 | 22n57 | 0n 7 | 22n47 | 0s50 | 15n43 | 5s44 | 21n40 | 21n56 | 22n18 | | | n.a. |

Julian Day Number = 1697163.5, Delta T = 03h07m27s
Ecliptic obliquity = 23°42'07, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°58'52, Lahiri = - 4°51'51 Julian Calendar 1 Aug. 67 BCE == Greg. Calendar 30 July 067 BCE

The year -66 astronomical counting style corresponds to year 067 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 67 BCE
# geocentric

## SEPTEMBER 67 BCE (-66) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 22 28 32 | 5♍ 7'47 | 12♎45 | 13♍47 | 14♌41 | 18♐32 | 21°R53 | 3°R12 | 14♊59 | 25♊27 | 4♊57 | 23°R 9 | 21♋36 | 11♋49 | n.a. | T 1 |
| F 2 | 22 32 29 | 6° 6'53 | 25°58 | 15°26 | 15°55 | 19° 6 | 21♒46 | 3♓ 8 | 15° 0 | 25°28 | 4°57 | 23♋ 2 | 21°33 | 11°56 | n.a. | F 2 |
| S 3 | 22 36 25 | 7° 6'01 | 9♏23 | 17° 5 | 17°10 | 19°39 | 21°38 | 3° 3 | 15° 1 | 25°29 | 4°57 | 22°57 | 21°29 | 12° 2 | n.a. | S 3 |
| S 4 | 22 40 22 | 8° 5'12 | 23° 0 | 18°43 | 18°24 | 20°13 | 21°31 | 2°58 | 15° 2 | 25°30 | 4°58 | 22°54 | 21°26 | 12° 9 | n.a. | S 4 |
| M 5 | 22 44 19 | 9° 4'24 | 6♐51 | 20°20 | 19°39 | 20°47 | 21°24 | 2°54 | 15° 3 | 25°31 | 4°58 | 22°D53 | 21°23 | 12°16 | n.a. | M 5 |
| T 6 | 22 48 15 | 10° 3'38 | 20°53 | 21°56 | 20°53 | 21°21 | 21°17 | 2°49 | 15° 4 | 25°32 | 4°58 | 22°53 | 21°20 | 12°22 | n.a. | T 6 |
| W 7 | 22 52 12 | 11° 2'54 | 5♑ 7 | 23°32 | 22° 8 | 21°56 | 21°10 | 2°44 | 15° 5 | 25°33 | 4°58 | 22°55 | 21°17 | 12°29 | n.a. | W 7 |
| T 8 | 22 56 8 | 12° 2'12 | 19°31 | 25° 6 | 23°22 | 22°31 | 21° 3 | 2°40 | 15° 6 | 25°34 | 4°R58 | 22°R55 | 21°14 | 12°36 | n.a. | T 8 |
| F 9 | 23 0 5 | 13° 1'31 | 4♒ 1 | 26°40 | 24°37 | 23° 6 | 20°56 | 2°35 | 15° 7 | 25°34 | 4°58 | 22°55 | 21°10 | 12°42 | n.a. | F 9 |
| S 10 | 23 4 1 | 14° 0'53 | 18°35 | 28°13 | 25°52 | 23°41 | 20°49 | 2°31 | 15° 8 | 25°35 | 4°58 | 22°52 | 21° 7 | 12°49 | n.a. | S 10 |
| S 11 | 23 7 58 | 15° 0'16 | 3♓ 6 | 29°45 | 27° 6 | 24°17 | 20°42 | 2°26 | 15° 9 | 25°36 | 4°58 | 22°48 | 21° 4 | 12°55 | n.a. | S 11 |
| M12 | 23 11 54 | 15°59'41 | 17°28 | 1♎17 | 28°21 | 24°52 | 20°36 | 2°21 | 15° 9 | 25°36 | 4°58 | 22°40 | 21° 1 | 13° 2 | n.a. | M12 |
| T 13 | 23 15 51 | 16°59'09 | 1♈34 | 2°48 | 29°36 | 25°28 | 20°29 | 2°17 | 15°10 | 25°37 | 4°57 | 22°32 | 20°58 | 13° 9 | n.a. | T 13 |
| W14 | 23 19 47 | 17°58'39 | 15°21 | 4°18 | 0♍51 | 26° 4 | 20°23 | 2°13 | 15°10 | 25°38 | 4°57 | 22°22 | 20°54 | 13°15 | n.a. | W14 |
| T 15 | 23 23 44 | 18°58'11 | 28°44 | 5°47 | 2° 5 | 26°41 | 20°17 | 2° 8 | 15°11 | 25°38 | 4°57 | 22°13 | 20°51 | 13°22 | n.a. | T 15 |
| F 16 | 23 27 41 | 19°57'45 | 11♉44 | 7°16 | 3°20 | 27°17 | 20°11 | 2° 4 | 15°11 | 25°39 | 4°57 | 22° 5 | 20°48 | 13°29 | n.a. | F 16 |
| S 17 | 23 31 37 | 20°57'22 | 24°21 | 8°43 | 4°35 | 27°54 | 20° 5 | 1°59 | 15°12 | 25°39 | 4°57 | 22° 0 | 20°45 | 13°35 | n.a. | S 17 |
| S 18 | 23 35 34 | 21°57'01 | 6♊38 | 10°11 | 5°50 | 28°31 | 20° 0 | 1°55 | 15°12 | 25°40 | 4°57 | 21°56 | 20°42 | 13°42 | n.a. | S 18 |
| M19 | 23 39 30 | 22°56'42 | 18°41 | 11°37 | 7° 5 | 29° 8 | 19°54 | 1°51 | 15°12 | 25°40 | 4°56 | 21°D55 | 20°39 | 13°49 | n.a. | M19 |
| T 20 | 23 43 27 | 23°56'26 | 0♋33 | 13° 2 | 8°20 | 29°45 | 19°49 | 1°47 | 15°13 | 25°41 | 4°56 | 21°55 | 20°35 | 13°55 | n.a. | T 20 |
| W21 | 23 47 23 | 24°56'12 | 12°21 | 14°27 | 9°35 | 0♑22 | 19°43 | 1°43 | 15°13 | 25°41 | 4°56 | 21°56 | 20°32 | 14° 2 | n.a. | W21 |
| T 22 | 23 51 20 | 25°56'01 | 24°10 | 15°51 | 10°50 | 1° 0 | 19°38 | 1°39 | 15°13 | 25°41 | 4°55 | 21°R56 | 20°29 | 14° 9 | n.a. | T 22 |
| F 23 | 23 55 16 | 26°55'52 | 6♌ 4 | 17°14 | 12° 5 | 1°38 | 19°34 | 1°34 | 15°13 | 25°42 | 4°55 | 21°55 | 20°26 | 14°15 | n.a. | F 23 |
| S 24 | 23 59 13 | 27°55'45 | 18° 9 | 18°36 | 13°20 | 2°16 | 19°29 | 1°30 | 15°R13 | 25°42 | 4°55 | 21°52 | 20°23 | 14°22 | n.a. | S 24 |
| S 25 | 0 3 10 | 28°55'40 | 0♍28 | 19°57 | 14°36 | 2°54 | 19°24 | 1°27 | 15°13 | 25°42 | 4°54 | 21°46 | 20°19 | 14°29 | n.a. | S 25 |
| M26 | 0 7 6 | 29°55'37 | 13° 3 | 21°17 | 15°51 | 3°32 | 19°20 | 1°23 | 15°13 | 25°42 | 4°54 | 21°37 | 20°16 | 14°35 | n.a. | M26 |
| T 27 | 0 11 3 | 0♎55'36 | 25°55 | 22°36 | 17° 6 | 4°10 | 19°16 | 1°19 | 15°13 | 25°43 | 4°54 | 21°26 | 20°13 | 14°42 | n.a. | T 27 |
| W28 | 0 14 59 | 1°55'38 | 9♎ 4 | 23°53 | 18°21 | 4°49 | 19°12 | 1°15 | 15°12 | 25°43 | 4°53 | 21°14 | 20°10 | 14°48 | n.a. | W28 |
| T 29 | 0 18 56 | 2°55'41 | 22°28 | 25°10 | 19°36 | 5°27 | 19° 8 | 1°12 | 15°12 | 25°43 | 4°53 | 21° 2 | 20° 7 | 14°55 | n.a. | T 29 |
| F 30 | 0 22 52 | 3♎55'47 | 6♏ 4 | 26♎25 | 20♍52 | 6♑ 6 | 19♒ 4 | 1♓ 8 | 15♊12 | 25♊43 | 4♊52 | 20♋51 | 20♋ 4 | 15♋ 2 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 9n44 | 0s26 | 5n 4 | 7n 8 | 0n45 | 17n42 | 1n 8 | 26s37 | 3s26 | 15s53 | 1s36 | 12s42 | 2s25 | 22n57 | 0n 7 | 22n47 | 0s50 | 15n43 | 5s44 | 21n42 | 21n57 | 22n18 | | n.a. |
| F 2 | 9 22 | 5 21 | 5 9 | 6 23 | 0 39 | 17 21 | 1 10 | 26 39 | 3 24 | 15 55 | 1 36 | 12 44 | 2 26 | 22 58 | 0 7 | 22 47 | 0 50 | 15 43 | 5 45 | 21 43 | 21 57 | 22 18 | | n.a. |
| S 3 | 9 0 | 10 5 | 4 57 | 5 39 | 0 32 | 17 0 | 1 11 | 26 40 | 3 23 | 15 57 | 1 36 | 12 45 | 2 26 | 22 58 | 0 7 | 22 47 | 0 50 | 15 42 | 5 45 | 21 44 | 21 58 | 22 18 | | n.a. |
| S 4 | 8 38 | 14 25 | 4 28 | 4 54 | 0 26 | 16 38 | 1 13 | 26 41 | 3 21 | 16 0 | 1 36 | 12 47 | 2 26 | 22 58 | 0 7 | 22 47 | 0 50 | 15 42 | 5 45 | 21 44 | 21 58 | 22 19 | | n.a. |
| M 5 | 8 15 | 18 2 | 3 43 | 4 10 | 0 19 | 16 16 | 1 14 | 26 42 | 3 19 | 16 2 | 1 36 | 12 49 | 2 26 | 22 58 | 0 7 | 22 48 | 0 50 | 15 42 | 5 45 | 21 44 | 21 59 | 22 19 | | n.a. |
| T 6 | 7 53 | 20 39 | 2 44 | 3 25 | 0 12 | 15 53 | 1 16 | 26 42 | 3 18 | 16 5 | 1 36 | 12 50 | 2 26 | 22 58 | 0 7 | 22 48 | 0 50 | 15 42 | 5 45 | 21 44 | 21 59 | 22 19 | | n.a. |
| W 7 | 7 30 | 22 1 | 1 35 | 2 41 | 0 5 | 15 30 | 1 17 | 26 43 | 3 16 | 16 7 | 1 36 | 12 52 | 2 26 | 22 58 | 0 7 | 22 48 | 0 50 | 15 42 | 5 45 | 21 44 | 22 0 | 22 19 | | n.a. |
| T 8 | 7 7 | 21 58 | 0 18 | 1 56 | 0s 2 | 15 6 | 1 18 | 26 43 | 3 14 | 16 9 | 1 36 | 12 54 | 2 26 | 22 58 | 0 7 | 22 48 | 0 50 | 15 42 | 5 45 | 21 44 | 22 0 | 22 20 | | n.a. |
| F 9 | 6 44 | 20 25 | 1s 0 | 1 12 | 0 9 | 14 42 | 1 19 | 26 44 | 3 13 | 16 11 | 1 36 | 12 56 | 2 26 | 22 58 | 0 7 | 22 48 | 0 50 | 15 42 | 5 45 | 21 44 | 22 1 | 22 20 | | n.a. |
| S 10 | 6 21 | 17 32 | 2 14 | 0 29 | 0 16 | 14 18 | 1 20 | 26 44 | 3 11 | 16 13 | 1 36 | 12 57 | 2 26 | 22 59 | 0 7 | 22 48 | 0 50 | 15 42 | 5 45 | 21 44 | 22 1 | 22 20 | | n.a. |
| S 11 | 5 58 | 13 34 | 3 19 | 0s15 | 0 23 | 13 53 | 1 21 | 26 44 | 3 9 | 16 15 | 1 36 | 12 59 | 2 26 | 22 59 | 0 7 | 22 48 | 0 50 | 15 42 | 5 45 | 21 45 | 22 2 | 22 20 | | n.a. |
| M12 | 5 35 | 8 50 | 4 10 | 0 58 | 0 30 | 13 28 | 1 22 | 26 44 | 3 8 | 16 17 | 1 35 | 13 1 | 2 26 | 22 59 | 0 7 | 22 48 | 0 50 | 15 42 | 5 45 | 21 46 | 22 2 | 22 21 | | n.a. |
| T 13 | 5 12 | 3 44 | 4 46 | 1 41 | 0 37 | 13 2 | 1 23 | 26 43 | 3 6 | 16 19 | 1 35 | 13 2 | 2 26 | 22 59 | 0 7 | 22 48 | 0 50 | 15 42 | 5 45 | 21 48 | 22 3 | 22 21 | | n.a. |
| W14 | 4 48 | 1n27 | 5 3 | 2 24 | 0 44 | 12 36 | 1 24 | 26 43 | 3 4 | 16 21 | 1 35 | 13 4 | 2 26 | 22 59 | 0 7 | 22 48 | 0 50 | 15 42 | 5 46 | 21 49 | 22 3 | 22 21 | | n.a. |
| T 15 | 4 25 | 6 25 | 5 4 | 3 6 | 0 51 | 12 10 | 1 25 | 26 42 | 3 3 | 16 23 | 1 35 | 13 5 | 2 26 | 22 59 | 0 7 | 22 48 | 0 50 | 15 41 | 5 46 | 21 51 | 22 4 | 22 21 | | n.a. |
| F 16 | 4 1 | 10 57 | 4 48 | 3 48 | 0 58 | 11 43 | 1 26 | 26 42 | 3 1 | 16 25 | 1 35 | 13 7 | 2 25 | 22 59 | 0 7 | 22 48 | 0 50 | 15 41 | 5 46 | 21 52 | 22 4 | 22 21 | | n.a. |
| S 17 | 3 37 | 14 53 | 4 19 | 4 29 | 1 5 | 11 16 | 1 26 | 26 41 | 2 59 | 16 27 | 1 35 | 13 8 | 2 25 | 22 59 | 0 7 | 22 48 | 0 50 | 15 41 | 5 46 | 21 53 | 22 5 | 22 22 | | n.a. |
| S 18 | 3 14 | 18 4 | 3 38 | 5 10 | 1 12 | 10 49 | 1 27 | 26 39 | 2 58 | 16 28 | 1 35 | 13 10 | 2 25 | 22 59 | 0 7 | 22 48 | 0 50 | 15 41 | 5 46 | 21 54 | 22 5 | 22 22 | | n.a. |
| M19 | 2 50 | 20 25 | 2 48 | 5 51 | 1 19 | 10 21 | 1 27 | 26 38 | 2 56 | 16 30 | 1 35 | 13 11 | 2 25 | 22 59 | 0 7 | 22 48 | 0 50 | 15 41 | 5 46 | 21 54 | 22 6 | 22 22 | | n.a. |
| T 20 | 2 26 | 21 50 | 1 52 | 6 31 | 1 25 | 9 53 | 1 28 | 26 37 | 2 54 | 16 32 | 1 34 | 13 13 | 2 25 | 22 59 | 0 7 | 22 48 | 0 50 | 15 41 | 5 46 | 21 54 | 22 6 | 22 22 | | n.a. |
| W21 | 2 2 | 22 16 | 0 51 | 7 10 | 1 32 | 9 25 | 1 28 | 26 35 | 2 53 | 16 33 | 1 34 | 13 14 | 2 25 | 22 59 | 0 7 | 22 48 | 0 50 | 15 41 | 5 46 | 21 54 | 22 7 | 22 22 | | n.a. |
| T 22 | 1 38 | 21 43 | 0n12 | 7 49 | 1 38 | 8 56 | 1 28 | 26 33 | 2 51 | 16 35 | 1 34 | 13 16 | 2 25 | 22 59 | 0 7 | 22 48 | 0 50 | 15 41 | 5 46 | 21 54 | 22 7 | 22 23 | | n.a. |
| F 23 | 1 14 | 20 10 | 1 15 | 8 27 | 1 45 | 8 28 | 1 28 | 26 31 | 2 49 | 16 36 | 1 34 | 13 17 | 2 25 | 22 59 | 0 7 | 22 48 | 0 50 | 15 40 | 5 46 | 21 54 | 22 8 | 22 23 | | n.a. |
| S 24 | 0 50 | 17 42 | 2 15 | 9 4 | 1 51 | 7 59 | 1 29 | 26 29 | 2 48 | 16 37 | 1 34 | 13 19 | 2 25 | 22 59 | 0 7 | 22 48 | 0 50 | 15 40 | 5 46 | 21 54 | 22 8 | 22 23 | | n.a. |
| S 25 | 0 26 | 14 23 | 3 10 | 9 41 | 1 57 | 7 29 | 1 29 | 26 26 | 2 46 | 16 39 | 1 34 | 13 20 | 2 25 | 22 59 | 0 7 | 22 48 | 0 50 | 15 40 | 5 46 | 21 55 | 22 9 | 22 23 | | n.a. |
| M26 | 0 2 | 10 22 | 3 57 | 10 17 | 2 3 | 7 0 | 1 29 | 26 24 | 2 44 | 16 40 | 1 34 | 13 21 | 2 25 | 22 59 | 0 7 | 22 48 | 0 50 | 15 40 | 5 46 | 21 57 | 22 9 | 22 23 | | n.a. |
| T 27 | 0s22 | 5 48 | 4 33 | 10 52 | 2 9 | 6 30 | 1 29 | 26 21 | 2 43 | 16 41 | 1 33 | 13 23 | 2 25 | 22 59 | 0 7 | 22 48 | 0 50 | 15 40 | 5 47 | 21 58 | 22 10 | 22 23 | | n.a. |
| W28 | 0 46 | 0 53 | 4 55 | 11 26 | 2 14 | 6 1 | 1 28 | 26 18 | 2 41 | 16 42 | 1 33 | 13 24 | 2 25 | 22 59 | 0 7 | 22 48 | 0 50 | 15 40 | 5 47 | 22 0 | 22 10 | 22 23 | | n.a. |
| T 29 | 1 11 | 4s10 | 5 2 | 12 0 | 2 19 | 5 31 | 1 28 | 26 15 | 2 39 | 16 43 | 1 33 | 13 25 | 2 25 | 22 59 | 0 7 | 22 47 | 0 50 | 15 40 | 5 47 | 22 2 | 22 11 | 22 24 | | n.a. |
| F 30 | 1s35 | 9s 7 | 4n51 | 12s32 | 2s24 | 5n 0 | 1n28 | 26s11 | 2s38 | 16s44 | 1s33 | 13s26 | 2s24 | 22n59 | 0n 7 | 22n47 | 0s50 | 15n39 | 5s47 | 22n 4 | 22n11 | 22n24 | | n.a. |

Julian Day Number = 1697194.5, Delta T = 03h07m26s
Ecliptic obliquity = 23°42'08, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°58'47, Lahiri = - 4°51'47 Julian Calendar 1 Sept. 67 BCE == Greg. Calendar 30 Aug. 067 BCE

The year -66 astronomical counting style corresponds to year 067 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 67 BCE
# geocentric

## OCTOBER 67 BCE (-66) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 0 26 49 | 4♎55'54 | 19♏51 | 27♎38 | 22♍ 7 | 6♉45 | 19°R 1 | 1°R 4 | 15°R12 | 25♊43 | 4°R52 | 20°R42 | 20♋ 0 | 15♋ 8 | n.a. | S 1 |
| S 2 | 0 30 45 | 5°56'02 | 3♐44 | 28°50 | 23°22 | 7°24 | 18♒58 | 1♓ 1 | 15♊11 | 25°R43 | 4♊51 | 20♋35 | 19°57 | 15°15 | n.a. | S 2 |
| M 3 | 0 34 42 | 6°56'13 | 17°43 | 29°59 | 24°38 | 8° 3 | 18°55 | 0°58 | 15°11 | 25°43 | 4°51 | 20°32 | 19°54 | 15°22 | n.a. | M 3 |
| T 4 | 0 38 38 | 7°56'25 | 1♉45 | 1♏ 7 | 25°53 | 8°43 | 18°52 | 0°54 | 15°10 | 25°43 | 4°50 | 20°31 | 19°51 | 15°28 | n.a. | T 4 |
| W 5 | 0 42 35 | 8°56'39 | 15°50 | 2°12 | 27° 8 | 9°22 | 18°49 | 0°51 | 15°10 | 25°43 | 4°49 | 20°31 | 19°48 | 15°35 | n.a. | W 5 |
| T 6 | 0 46 32 | 9°56'55 | 29°57 | 3°15 | 28°24 | 10° 2 | 18°47 | 0°48 | 15° 9 | 25°43 | 4°49 | 20°30 | 19°45 | 15°42 | n.a. | T 6 |
| F 7 | 0 50 28 | 10°57'11 | 14♒ 5 | 4°14 | 29°39 | 10°41 | 18°45 | 0°45 | 15° 8 | 25°42 | 4°48 | 20°29 | 19°41 | 15°48 | n.a. | F 7 |
| S 8 | 0 54 25 | 11°57'30 | 28°13 | 5°11 | 0♎54 | 11°21 | 18°43 | 0°42 | 15° 8 | 25°42 | 4°48 | 20°25 | 19°38 | 15°55 | n.a. | S 8 |
| S 9 | 0 58 21 | 12°57'50 | 12♓17 | 6° 4 | 2°10 | 12° 1 | 18°41 | 0°39 | 15° 7 | 25°42 | 4°47 | 20°18 | 19°35 | 16° 2 | n.a. | S 9 |
| M10 | 1 2 18 | 13°58'11 | 26°14 | 6°52 | 3°25 | 12°41 | 18°39 | 0°37 | 15° 6 | 25°42 | 4°46 | 20° 8 | 19°32 | 16° 8 | n.a. | M10 |
| T 11 | 1 6 14 | 14°58'35 | 9♈59 | 7°36 | 4°41 | 13°21 | 18°38 | 0°34 | 15° 5 | 25°41 | 4°45 | 19°55 | 19°29 | 16°15 | n.a. | T 11 |
| W12 | 1 10 11 | 15°59'00 | 23°30 | 8°15 | 5°56 | 14° 1 | 18°37 | 0°31 | 15° 4 | 25°41 | 4°45 | 19°42 | 19°25 | 16°21 | n.a. | W12 |
| T 13 | 1 14 7 | 16°59'26 | 6♉43 | 8°48 | 7°12 | 14°41 | 18°36 | 0°29 | 15° 3 | 25°41 | 4°44 | 19°29 | 19°22 | 16°28 | n.a. | T 13 |
| F 14 | 1 18 4 | 17°59'55 | 19°36 | 9°15 | 8°27 | 15°21 | 18°35 | 0°26 | 15° 2 | 25°40 | 4°43 | 19°18 | 19°19 | 16°35 | n.a. | F 14 |
| S 15 | 1 22 1 | 19° 0'25 | 2♊10 | 9°35 | 9°43 | 16° 2 | 18°34 | 0°24 | 15° 1 | 25°40 | 4°42 | 19° 9 | 19°16 | 16°41 | n.a. | S 15 |
| S 16 | 1 25 57 | 20° 0'58 | 14°26 | 9°46 | 10°58 | 16°42 | 18°34 | 0°22 | 15° 0 | 25°39 | 4°42 | 19° 2 | 19°13 | 16°48 | n.a. | S 16 |
| M17 | 1 29 54 | 21° 1'32 | 26°29 | 9°R50 | 12°14 | 17°23 | 18°D34 | 0°20 | 14°59 | 25°39 | 4°41 | 18°59 | 19°10 | 16°55 | n.a. | M17 |
| T 18 | 1 33 50 | 22° 2'08 | 8♋21 | 9°44 | 13°29 | 18° 4 | 18°34 | 0°18 | 14°58 | 25°38 | 4°40 | 18°57 | 19° 6 | 17° 1 | n.a. | T 18 |
| W19 | 1 37 47 | 23° 2'46 | 20° 9 | 9°28 | 14°45 | 18°44 | 18°34 | 0°16 | 14°56 | 25°38 | 4°39 | 18°57 | 19° 3 | 17° 8 | n.a. | W19 |
| T 20 | 1 41 43 | 24° 3'26 | 1♌57 | 9° 2 | 16° 0 | 19°25 | 18°34 | 0°14 | 14°55 | 25°37 | 4°38 | 18°57 | 19° 0 | 17°15 | n.a. | T 20 |
| F 21 | 1 45 40 | 25° 4'07 | 13°52 | 8°26 | 17°16 | 20° 6 | 18°35 | 0°12 | 14°54 | 25°37 | 4°37 | 18°56 | 18°57 | 17°21 | n.a. | F 21 |
| S 22 | 1 49 36 | 26° 4'50 | 25°59 | 7°39 | 18°31 | 20°47 | 18°36 | 0°11 | 14°52 | 25°36 | 4°37 | 18°53 | 18°54 | 17°28 | n.a. | S 22 |
| S 23 | 1 53 33 | 27° 5'35 | 8♍23 | 6°43 | 19°47 | 21°28 | 18°37 | 0° 9 | 14°51 | 25°35 | 4°36 | 18°47 | 18°50 | 17°35 | n.a. | S 23 |
| M24 | 1 57 30 | 28° 6'22 | 21° 6 | 5°37 | 21° 2 | 22° 9 | 18°38 | 0° 8 | 14°49 | 25°35 | 4°35 | 18°38 | 18°47 | 17°41 | n.a. | M24 |
| T 25 | 2 1 26 | 29° 7'10 | 4♎11 | 4°24 | 22°18 | 22°50 | 18°40 | 0° 6 | 14°48 | 25°34 | 4°34 | 18°27 | 18°44 | 17°48 | n.a. | T 25 |
| W26 | 2 5 23 | 0♏ 8'00 | 17°38 | 3° 5 | 23°34 | 23°31 | 18°41 | 0° 5 | 14°46 | 25°33 | 4°33 | 18°15 | 18°41 | 17°55 | n.a. | W26 |
| T 27 | 2 9 19 | 1° 8'51 | 1♏26 | 1°44 | 24°49 | 24°13 | 18°43 | 0° 4 | 14°44 | 25°32 | 4°32 | 18° 2 | 18°38 | 18° 1 | n.a. | T 27 |
| F 28 | 2 13 16 | 2° 9'43 | 15°29 | 0°22 | 26° 5 | 24°54 | 18°45 | 0° 3 | 14°43 | 25°31 | 4°31 | 17°50 | 18°35 | 18° 8 | n.a. | F 28 |
| S 29 | 2 17 12 | 3°10'37 | 29°43 | 29♎ 2 | 27°20 | 25°35 | 18°47 | 0° 2 | 14°41 | 25°30 | 4°30 | 17°41 | 18°31 | 18°14 | n.a. | S 29 |
| S 30 | 2 21 9 | 4°11'32 | 14♐ 2 | 27°48 | 28°36 | 26°17 | 18°50 | 0° 1 | 14°39 | 25°30 | 4°29 | 17°34 | 18°28 | 18°21 | n.a. | S 30 |
| M31 | 2 25 5 | 5♏12'28 | 28♐22 | 26♎41 | 29♎51 | 26♉58 | 18♒53 | 0♓ 1 | 14♊37 | 25♊29 | 4♊28 | 17♋30 | 18♋25 | 18♋28 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 1s59 | 13s39 | 4n24 | 13s 3 | 2s29 | 4n30 | 1n28 | 26s 8 | 2s36 | 16s45 | 1s33 | 13s27 | 2s24 | 22n59 | 0n 7 | 22n47 | 0s50 | 15n39 | 5s47 | 22n 5 | 22n12 | 22n24 | | n.a. |
| S 2 | 2 23 | 17 31 | 3 41 | 13 33 | 2 33 | 4 0 | 1 27 | 26 4 | 2 34 | 16 46 | 1 32 | 13 28 | 2 24 | 22 59 | 0 7 | 22 47 | 0 51 | 15 39 | 5 47 | 22 6 | 22 12 | 22 24 | | n.a. |
| M 3 | 2 47 | 20 24 | 2 44 | 14 2 | 2 37 | 3 29 | 1 27 | 26 0 | 2 33 | 16 47 | 1 32 | 13 30 | 2 24 | 22 59 | 0 7 | 22 47 | 0 51 | 15 39 | 5 47 | 22 7 | 22 13 | 22 24 | | n.a. |
| T 4 | 3 11 | 22 4 | 1 38 | 14 29 | 2 40 | 2 58 | 1 26 | 25 56 | 2 31 | 16 47 | 1 32 | 13 31 | 2 24 | 22 59 | 0 7 | 22 47 | 0 51 | 15 39 | 5 47 | 22 7 | 22 13 | 22 24 | | n.a. |
| W 5 | 3 35 | 22 20 | 0 25 | 14 55 | 2 43 | 2 27 | 1 26 | 25 51 | 2 30 | 16 48 | 1 32 | 13 32 | 2 24 | 22 59 | 0 7 | 22 47 | 0 51 | 15 39 | 5 47 | 22 7 | 22 13 | 22 24 | | n.a. |
| T 6 | 3 59 | 21 12 | 0s50 | 15 20 | 2 46 | 1 57 | 1 25 | 25 47 | 2 28 | 16 49 | 1 32 | 13 33 | 2 24 | 22 59 | 0 7 | 22 47 | 0 51 | 15 39 | 5 47 | 22 7 | 22 14 | 22 24 | | n.a. |
| F 7 | 4 23 | 18 43 | 2 1 | 15 42 | 2 48 | 1 26 | 1 24 | 25 42 | 2 26 | 16 49 | 1 31 | 13 34 | 2 24 | 22 59 | 0 7 | 22 47 | 0 51 | 15 38 | 5 47 | 22 7 | 22 14 | 22 24 | | n.a. |
| S 8 | 4 47 | 15 7 | 3 5 | 16 3 | 2 49 | 0 55 | 1 24 | 25 37 | 2 25 | 16 49 | 1 31 | 13 35 | 2 24 | 22 59 | 0 7 | 22 47 | 0 51 | 15 38 | 5 47 | 22 8 | 22 15 | 22 25 | | n.a. |
| S 9 | 5 10 | 10 41 | 3 57 | 16 21 | 2 50 | 0 24 | 1 23 | 25 32 | 2 23 | 16 50 | 1 31 | 13 36 | 2 23 | 22 59 | 0 7 | 22 47 | 0 51 | 15 38 | 5 47 | 22 9 | 22 15 | 22 25 | | n.a. |
| M10 | 5 34 | 5 43 | 4 35 | 16 38 | 2 50 | 0s 8 | 1 22 | 25 26 | 2 21 | 16 50 | 1 31 | 13 36 | 2 23 | 22 59 | 0 7 | 22 47 | 0 51 | 15 38 | 5 47 | 22 11 | 22 16 | 22 25 | | n.a. |
| T 11 | 5 58 | 0 32 | 4 56 | 16 52 | 2 49 | 0 39 | 1 21 | 25 21 | 2 20 | 16 50 | 1 31 | 13 37 | 2 23 | 22 59 | 0 7 | 22 47 | 0 51 | 15 38 | 5 47 | 22 12 | 22 16 | 22 25 | | n.a. |
| W12 | 6 21 | 4n35 | 5 0 | 17 3 | 2 47 | 1 10 | 1 20 | 25 15 | 2 18 | 16 51 | 1 30 | 13 38 | 2 23 | 22 59 | 0 7 | 22 47 | 0 51 | 15 37 | 5 47 | 22 14 | 22 17 | 22 25 | | n.a. |
| T 13 | 6 45 | 9 23 | 4 47 | 17 11 | 2 45 | 1 41 | 1 19 | 25 9 | 2 17 | 16 51 | 1 30 | 13 39 | 2 23 | 22 59 | 0 7 | 22 47 | 0 51 | 15 37 | 5 47 | 22 16 | 22 17 | 22 25 | | n.a. |
| F 14 | 7 8 | 13 39 | 4 20 | 17 16 | 2 41 | 2 12 | 1 18 | 25 3 | 2 15 | 16 51 | 1 30 | 13 39 | 2 23 | 22 58 | 0 7 | 22 47 | 0 51 | 15 37 | 5 48 | 22 18 | 22 18 | 22 25 | | n.a. |
| S 15 | 7 31 | 17 13 | 3 41 | 17 18 | 2 36 | 2 43 | 1 16 | 24 56 | 2 13 | 16 51 | 1 30 | 13 40 | 2 23 | 22 58 | 0 7 | 22 47 | 0 51 | 15 37 | 5 48 | 22 19 | 22 18 | 22 25 | | n.a. |
| S 16 | 7 55 | 19 56 | 2 52 | 17 15 | 2 29 | 3 14 | 1 15 | 24 49 | 2 12 | 16 51 | 1 29 | 13 41 | 2 22 | 22 58 | 0 7 | 22 47 | 0 51 | 15 37 | 5 48 | 22 20 | 22 19 | 22 25 | | n.a. |
| M17 | 8 18 | 21 43 | 1 56 | 17 9 | 2 21 | 3 45 | 1 14 | 24 43 | 2 10 | 16 50 | 1 29 | 13 41 | 2 22 | 22 58 | 0 7 | 22 47 | 0 51 | 15 37 | 5 48 | 22 21 | 22 19 | 22 25 | | n.a. |
| T 18 | 8 40 | 22 30 | 0 56 | 16 58 | 2 12 | 4 16 | 1 12 | 24 36 | 2 9 | 16 50 | 1 29 | 13 42 | 2 22 | 22 58 | 0 7 | 22 47 | 0 51 | 15 36 | 5 48 | 22 21 | 22 19 | 22 25 | | n.a. |
| W19 | 9 3 | 22 17 | 0n 6 | 16 43 | 2 1 | 4 47 | 1 11 | 24 28 | 2 7 | 16 50 | 1 29 | 13 43 | 2 22 | 22 58 | 0 7 | 22 47 | 0 51 | 15 36 | 5 48 | 22 21 | 22 20 | 22 25 | | n.a. |
| T 20 | 9 26 | 21 3 | 1 8 | 16 22 | 1 48 | 5 18 | 1 10 | 24 21 | 2 6 | 16 50 | 1 28 | 13 43 | 2 22 | 22 58 | 0 7 | 22 47 | 0 51 | 15 36 | 5 48 | 22 21 | 22 20 | 22 25 | | n.a. |
| F 21 | 9 48 | 18 53 | 2 8 | 15 57 | 1 34 | 5 48 | 1 8 | 24 13 | 2 4 | 16 49 | 1 28 | 13 43 | 2 22 | 22 58 | 0 7 | 22 47 | 0 51 | 15 36 | 5 48 | 22 21 | 22 21 | 22 25 | | n.a. |
| S 22 | 10 11 | 15 51 | 3 3 | 15 26 | 1 18 | 6 19 | 1 6 | 24 5 | 2 2 | 16 49 | 1 28 | 13 44 | 2 21 | 22 57 | 0 7 | 22 47 | 0 51 | 15 36 | 5 48 | 22 21 | 22 21 | 22 25 | | n.a. |
| S 23 | 10 33 | 12 4 | 3 50 | 14 51 | 1 0 | 6 49 | 1 5 | 23 57 | 2 1 | 16 48 | 1 28 | 13 44 | 2 21 | 22 57 | 0 7 | 22 47 | 0 51 | 15 35 | 5 48 | 22 22 | 22 22 | 22 25 | | n.a. |
| M24 | 10 55 | 7 39 | 4 27 | 14 11 | 0 41 | 7 19 | 1 3 | 23 49 | 1 59 | 16 47 | 1 28 | 13 45 | 2 21 | 22 57 | 0 8 | 22 47 | 0 51 | 15 35 | 5 48 | 22 23 | 22 22 | 22 25 | | n.a. |
| T 25 | 11 17 | 2 46 | 4 52 | 13 27 | 0 21 | 7 49 | 1 1 | 23 41 | 1 58 | 16 47 | 1 27 | 13 45 | 2 21 | 22 57 | 0 8 | 22 47 | 0 51 | 15 35 | 5 48 | 22 25 | 22 23 | 22 25 | | n.a. |
| W26 | 11 39 | 2s22 | 5 1 | 12 41 | 0 1 | 8 19 | 1 0 | 23 32 | 1 56 | 16 46 | 1 27 | 13 45 | 2 21 | 22 57 | 0 8 | 22 47 | 0 51 | 15 35 | 5 48 | 22 27 | 22 23 | 22 25 | | n.a. |
| T 27 | 12 0 | 7 31 | 4 53 | 11 54 | 0n20 | 8 49 | 0 58 | 23 23 | 1 55 | 16 45 | 1 27 | 13 45 | 2 20 | 22 57 | 0 8 | 22 47 | 0 51 | 15 35 | 5 48 | 22 28 | 22 23 | 22 25 | | n.a. |
| F 28 | 12 21 | 12 24 | 4 27 | 11 6 | 0 40 | 9 19 | 0 56 | 23 14 | 1 53 | 16 44 | 1 27 | 13 46 | 2 20 | 22 56 | 0 8 | 22 47 | 0 51 | 15 34 | 5 48 | 22 30 | 22 24 | 22 25 | | n.a. |
| S 29 | 12 42 | 16 39 | 3 45 | 10 19 | 1 0 | 9 48 | 0 54 | 23 5 | 1 52 | 16 43 | 1 26 | 13 46 | 2 20 | 22 56 | 0 8 | 22 47 | 0 51 | 15 34 | 5 48 | 22 31 | 22 24 | 22 25 | | n.a. |
| S 30 | 13 3 | 19 58 | 2 48 | 9 35 | 1 18 | 10 17 | 0 52 | 22 56 | 1 50 | 16 42 | 1 26 | 13 46 | 2 20 | 22 56 | 0 8 | 22 47 | 0 51 | 15 34 | 5 48 | 22 32 | 22 25 | 22 25 | | n.a. |
| M31 | 13s24 | 22s 2 | 1n40 | 8s56 | 1n35 | 10s46 | 0n50 | 22s46 | 1s49 | 16s41 | 1s26 | 13s46 | 2s20 | 22n56 | 0n 8 | 22n47 | 0s51 | 15n34 | 5s48 | 22n33 | 22n25 | 22n25 | | n.a. |

Julian Day Number = 1697224.5, Delta T = 03h07m25s
Ecliptic obliquity = 23°42'09, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°58'43, Lahiri = - 4°51'43 Julian Calendar 1 Oct. 67 BCE == Greg. Calendar 29 Sept. 067 BCE

The year -66 astronomical counting style corresponds to year 067 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 67 BCE
# geocentric

## NOVEMBER 67 BCE (-66) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 2 29 2 | 6♏13'24 | 12♉38 | 25°R43 | 1♏ 7 | 27♉40 | 18♒55 | 0°R 0 | 14°R36 | 25°R28 | 4°R27 | 17°D29 | 18♋22 | 18♋34 | n.a. | T 1 |
| W 2 | 2 32 59 | 7°14'22 | 26°49 | 24♎56 | 2°23 | 28°22 | 18°59 | 29♒59 | 14♊34 | 25♊27 | 4♊26 | 17♋29 | 18°19 | 18°41 | n.a. | W 2 |
| T 3 | 2 36 55 | 8°15'21 | 10♒53 | 24°19 | 3°38 | 29° 3 | 19° 2 | 29°59 | 14°32 | 25°26 | 4°25 | 17°R29 | 18°16 | 18°48 | n.a. | T 3 |
| F 4 | 2 40 52 | 9°16'20 | 24°49 | 23°55 | 4°54 | 29°45 | 19° 5 | 29°59 | 14°30 | 25°25 | 4°24 | 17°28 | 18°12 | 18°54 | n.a. | F 4 |
| S 5 | 2 44 48 | 10°17'20 | 8♓37 | 23°41 | 6° 9 | 0♒27 | 19° 9 | 29°59 | 14°28 | 25°24 | 4°23 | 17°25 | 18° 9 | 19° 1 | n.a. | S 5 |
| S 6 | 2 48 45 | 11°18'21 | 22°17 | 23°D39 | 7°25 | 1° 8 | 19°13 | 29°D59 | 14°26 | 25°22 | 4°21 | 17°19 | 18° 6 | 19° 8 | n.a. | S 6 |
| M 7 | 2 52 41 | 12°19'22 | 5♈48 | 23°47 | 8°41 | 1°50 | 19°17 | 29°59 | 14°24 | 25°21 | 4°20 | 17°10 | 18° 3 | 19°14 | n.a. | M 7 |
| T 8 | 2 56 38 | 13°20'24 | 19° 8 | 24° 5 | 9°56 | 2°32 | 19°21 | 29°59 | 14°22 | 25°20 | 4°19 | 17° 0 | 18° 0 | 19°21 | n.a. | T 8 |
| W 9 | 3 0 34 | 14°21'27 | 2♉15 | 24°31 | 11°12 | 3°14 | 19°26 | 29°59 | 14°20 | 25°19 | 4°18 | 16°48 | 17°56 | 19°28 | n.a. | W 9 |
| T 10 | 3 4 31 | 15°22'31 | 15° 9 | 25° 5 | 12°27 | 3°56 | 19°30 | 0♓ 0 | 14°17 | 25°18 | 4°17 | 16°37 | 17°53 | 19°34 | n.a. | T 10 |
| F 11 | 3 8 28 | 16°23'36 | 27°48 | 25°46 | 13°43 | 4°38 | 19°35 | 0° 1 | 14°15 | 25°17 | 4°16 | 16°27 | 17°50 | 19°41 | n.a. | F 11 |
| S 12 | 3 12 24 | 17°24'42 | 10♊12 | 26°33 | 14°59 | 5°20 | 19°40 | 0° 1 | 14°13 | 25°15 | 4°15 | 16°18 | 17°47 | 19°47 | n.a. | S 12 |
| S 13 | 3 16 21 | 18°25'48 | 22°22 | 27°26 | 16°14 | 6° 2 | 19°45 | 0° 2 | 14°11 | 25°14 | 4°14 | 16°13 | 17°44 | 19°54 | n.a. | S 13 |
| M14 | 3 20 17 | 19°26'56 | 4♋22 | 28°23 | 17°30 | 6°44 | 19°51 | 0° 3 | 14° 9 | 25°13 | 4°12 | 16°10 | 17°41 | 20° 1 | n.a. | M14 |
| T 15 | 3 24 14 | 20°28'04 | 16°13 | 29°25 | 18°45 | 7°26 | 19°56 | 0° 4 | 14° 6 | 25°11 | 4°11 | 16°D 9 | 17°37 | 20° 7 | n.a. | T 15 |
| W16 | 3 28 10 | 21°29'14 | 28° 0 | 0♏30 | 20° 1 | 8° 8 | 20° 2 | 0° 5 | 14° 4 | 25°10 | 4°10 | 16° 9 | 17°34 | 20°14 | n.a. | W16 |
| T 17 | 3 32 7 | 22°30'24 | 9♌47 | 1°39 | 21°16 | 8°50 | 20° 8 | 0° 6 | 14° 2 | 25° 9 | 4° 9 | 16°11 | 17°31 | 20°21 | n.a. | T 17 |
| F 18 | 3 36 3 | 23°31'35 | 21°41 | 2°50 | 22°32 | 9°32 | 20°14 | 0° 7 | 13°59 | 25° 7 | 4° 8 | 16°R11 | 17°28 | 20°27 | n.a. | F 18 |
| S 19 | 3 40 0 | 24°32'46 | 3♍47 | 4° 4 | 23°47 | 10°14 | 20°20 | 0° 9 | 13°57 | 25° 6 | 4° 6 | 16°11 | 17°25 | 20°34 | n.a. | S 19 |
| S 20 | 3 43 57 | 25°33'59 | 16° 9 | 5°20 | 25° 3 | 10°56 | 20°26 | 0°10 | 13°54 | 25° 5 | 4° 5 | 16° 8 | 17°22 | 20°41 | n.a. | S 20 |
| M21 | 3 47 53 | 26°35'12 | 28°52 | 6°37 | 26°19 | 11°38 | 20°33 | 0°12 | 13°52 | 25° 3 | 4° 4 | 16° 4 | 17°18 | 20°47 | n.a. | M21 |
| T 22 | 3 51 50 | 27°36'26 | 12♎ 0 | 7°57 | 27°34 | 12°20 | 20°40 | 0°14 | 13°50 | 25° 2 | 4° 3 | 15°58 | 17°15 | 20°54 | n.a. | T 22 |
| W23 | 3 55 46 | 28°37'41 | 25°34 | 9°17 | 28°50 | 13° 3 | 20°47 | 0°16 | 13°47 | 25° 0 | 4° 2 | 15°50 | 17°12 | 21° 1 | n.a. | W23 |
| T 24 | 3 59 43 | 29°38'56 | 9♏34 | 10°39 | 0♐ 5 | 13°45 | 20°54 | 0°18 | 13°45 | 24°59 | 4° 0 | 15°42 | 17° 9 | 21° 7 | n.a. | T 24 |
| F 25 | 4 3 39 | 0♐40'11 | 23°55 | 12° 3 | 1°21 | 14°27 | 21° 1 | 0°20 | 13°42 | 24°57 | 3°59 | 15°34 | 17° 6 | 21°14 | n.a. | F 25 |
| S 26 | 4 7 36 | 1°41'27 | 8♐32 | 13°27 | 2°36 | 15° 9 | 21° 8 | 0°22 | 13°40 | 24°56 | 3°58 | 15°28 | 17° 2 | 21°21 | n.a. | S 26 |
| S 27 | 4 11 33 | 2°42'43 | 23°18 | 14°52 | 3°52 | 15°52 | 21°16 | 0°24 | 13°37 | 24°54 | 3°57 | 15°24 | 16°59 | 21°27 | n.a. | S 27 |
| M28 | 4 15 29 | 3°44'00 | 8♑ 5 | 16°18 | 5° 7 | 16°34 | 21°23 | 0°26 | 13°35 | 24°53 | 3°56 | 15°22 | 16°56 | 21°34 | n.a. | M28 |
| T 29 | 4 19 26 | 4°45'16 | 22°47 | 17°44 | 6°23 | 17°16 | 21°31 | 0°29 | 13°32 | 24°51 | 3°54 | 15°D22 | 16°53 | 21°40 | n.a. | T 29 |
| W30 | 4 23 22 | 5♐46'32 | 7♒17 | 19♏11 | 7♐38 | 17♒58 | 21♒39 | 0♓31 | 13♊29 | 24♊49 | 3♊53 | 15♋23 | 16♋50 | 21♋47 | n.a. | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 13 s45 | 22 s40 | 0n26 | 8 s21 | 1n50 | 11 s14 | 0n48 | 22 s36 | 1 s47 | 16 s40 | 1 s26 | 13 s46 | 2 s19 | 22n56 | 0n 8 | 22n46 | 0 s51 | 15n34 | 5 s48 | 22n33 | 22n26 | 22n25 | | n.a. |
| W 2 | 14 5 | 21 50 | 0 s49 | 7 51 | 2 2 | 11 42 | 0 46 | 22 26 | 1 46 | 16 39 | 1 25 | 13 46 | 2 19 | 22 55 | 0 8 | 22 46 | 0 51 | 15 33 | 5 48 | 22 33 | 22 26 | 22 25 | | n.a. |
| T 3 | 14 25 | 19 38 | 2 1 | 7 28 | 2 13 | 12 10 | 0 44 | 22 16 | 1 44 | 16 38 | 1 25 | 13 46 | 2 19 | 22 55 | 0 8 | 22 46 | 0 51 | 15 33 | 5 48 | 22 33 | 22 27 | 22 25 | | n.a. |
| F 4 | 14 44 | 16 17 | 3 5 | 7 11 | 2 22 | 12 38 | 0 42 | 22 6 | 1 43 | 16 36 | 1 25 | 13 46 | 2 19 | 22 55 | 0 8 | 22 46 | 0 51 | 15 33 | 5 48 | 22 33 | 22 27 | 22 25 | | n.a. |
| S 5 | 15 4 | 12 5 | 3 57 | 7 0 | 2 28 | 13 5 | 0 40 | 21 55 | 1 41 | 16 35 | 1 25 | 13 46 | 2 19 | 22 55 | 0 8 | 22 46 | 0 51 | 15 33 | 5 48 | 22 33 | 22 27 | 22 25 | | n.a. |
| S 6 | 15 23 | 7 18 | 4 35 | 6 55 | 2 33 | 13 32 | 0 38 | 21 45 | 1 40 | 16 34 | 1 24 | 13 45 | 2 19 | 22 55 | 0 8 | 22 46 | 0 51 | 15 33 | 5 48 | 22 34 | 22 28 | 22 25 | | n.a. |
| M 7 | 15 42 | 2 13 | 4 57 | 6 55 | 2 36 | 13 59 | 0 36 | 21 34 | 1 38 | 16 32 | 1 24 | 13 45 | 2 18 | 22 54 | 0 8 | 22 46 | 0 51 | 15 32 | 5 48 | 22 35 | 22 28 | 22 25 | | n.a. |
| T 8 | 16 1 | 2n54 | 5 3 | 7 0 | 2 38 | 14 25 | 0 34 | 21 23 | 1 37 | 16 30 | 1 24 | 13 45 | 2 18 | 22 54 | 0 8 | 22 46 | 0 51 | 15 32 | 5 48 | 22 36 | 22 29 | 22 25 | | n.a. |
| W 9 | 16 19 | 7 49 | 4 52 | 7 9 | 2 38 | 14 51 | 0 31 | 21 12 | 1 35 | 16 29 | 1 24 | 13 45 | 2 18 | 22 54 | 0 8 | 22 46 | 0 51 | 15 32 | 5 48 | 22 38 | 22 29 | 22 25 | | n.a. |
| T 10 | 16 37 | 12 18 | 4 27 | 7 23 | 2 37 | 15 17 | 0 29 | 21 0 | 1 34 | 16 27 | 1 24 | 13 44 | 2 18 | 22 54 | 0 8 | 22 46 | 0 51 | 15 32 | 5 48 | 22 39 | 22 30 | 22 24 | | n.a. |
| F 11 | 16 55 | 16 10 | 3 49 | 7 39 | 2 35 | 15 42 | 0 27 | 20 49 | 1 33 | 16 25 | 1 23 | 13 44 | 2 18 | 22 53 | 0 8 | 22 46 | 0 51 | 15 32 | 5 48 | 22 41 | 22 30 | 22 24 | | n.a. |
| S 12 | 17 13 | 19 15 | 3 0 | 7 59 | 2 32 | 16 7 | 0 25 | 20 37 | 1 31 | 16 24 | 1 23 | 13 44 | 2 17 | 22 53 | 0 8 | 22 46 | 0 51 | 15 31 | 5 48 | 22 42 | 22 30 | 22 24 | | n.a. |
| S 13 | 17 30 | 21 25 | 2 4 | 8 22 | 2 29 | 16 31 | 0 22 | 20 25 | 1 30 | 16 22 | 1 23 | 13 43 | 2 17 | 22 53 | 0 8 | 22 46 | 0 51 | 15 31 | 5 48 | 22 42 | 22 31 | 22 24 | | n.a. |
| M14 | 17 47 | 22 35 | 1 3 | 8 46 | 2 24 | 16 55 | 0 20 | 20 13 | 1 28 | 16 20 | 1 23 | 13 43 | 2 17 | 22 53 | 0 8 | 22 46 | 0 51 | 15 31 | 5 48 | 22 43 | 22 31 | 22 24 | | n.a. |
| T 15 | 18 4 | 22 43 | 0n 0 | 9 13 | 2 19 | 17 19 | 0 18 | 20 1 | 1 27 | 16 18 | 1 22 | 13 42 | 2 17 | 22 52 | 0 8 | 22 46 | 0 51 | 15 31 | 5 48 | 22 43 | 22 32 | 22 24 | | n.a. |
| W16 | 18 20 | 21 49 | 1 3 | 9 41 | 2 14 | 17 42 | 0 15 | 19 49 | 1 25 | 16 16 | 1 22 | 13 41 | 2 17 | 22 52 | 0 8 | 22 46 | 0 51 | 15 31 | 5 48 | 22 43 | 22 32 | 22 24 | | n.a. |
| T 17 | 18 36 | 19 59 | 2 4 | 10 11 | 2 8 | 18 4 | 0 13 | 19 36 | 1 24 | 16 14 | 1 22 | 13 41 | 2 16 | 22 52 | 0 8 | 22 46 | 0 51 | 15 30 | 5 48 | 22 43 | 22 32 | 22 24 | | n.a. |
| F 18 | 18 52 | 17 15 | 3 0 | 10 41 | 2 2 | 18 26 | 0 11 | 19 23 | 1 23 | 16 11 | 1 22 | 13 40 | 2 16 | 22 52 | 0 8 | 22 46 | 0 51 | 15 30 | 5 48 | 22 43 | 22 33 | 22 23 | | n.a. |
| S 19 | 19 7 | 13 46 | 3 48 | 11 12 | 1 55 | 18 48 | 0 8 | 19 11 | 1 21 | 16 9 | 1 21 | 13 39 | 2 16 | 22 51 | 0 8 | 22 46 | 0 51 | 15 30 | 5 48 | 22 43 | 22 33 | 22 23 | | n.a. |
| S 20 | 19 22 | 9 37 | 4 27 | 11 44 | 1 48 | 19 9 | 0 6 | 18 58 | 1 20 | 16 7 | 1 21 | 13 39 | 2 16 | 22 51 | 0 8 | 22 45 | 0 51 | 15 30 | 5 48 | 22 43 | 22 34 | 22 23 | | n.a. |
| M21 | 19 36 | 4 57 | 4 55 | 12 17 | 1 41 | 19 29 | 0 3 | 18 44 | 1 19 | 16 5 | 1 21 | 13 38 | 2 16 | 22 51 | 0 8 | 22 45 | 0 51 | 15 30 | 5 48 | 22 43 | 22 34 | 22 23 | | n.a. |
| T 22 | 19 51 | 0 s 5 | 5 7 | 12 50 | 1 34 | 19 49 | 0 1 | 18 31 | 1 17 | 16 2 | 1 21 | 13 37 | 2 15 | 22 50 | 0 8 | 22 45 | 0 51 | 15 30 | 5 48 | 22 44 | 22 35 | 22 23 | | n.a. |
| W23 | 20 4 | 5 17 | 5 4 | 13 23 | 1 27 | 20 8 | 0 s 1 | 18 18 | 1 16 | 16 0 | 1 21 | 13 36 | 2 15 | 22 50 | 0 8 | 22 45 | 0 51 | 15 29 | 5 48 | 22 45 | 22 35 | 22 23 | | n.a. |
| T 24 | 20 18 | 10 23 | 4 42 | 13 56 | 1 20 | 20 27 | 0 4 | 18 4 | 1 15 | 15 57 | 1 20 | 13 35 | 2 15 | 22 50 | 0 8 | 22 45 | 0 51 | 15 29 | 5 48 | 22 46 | 22 35 | 22 23 | | n.a. |
| F 25 | 20 31 | 15 3 | 4 2 | 14 28 | 1 12 | 20 45 | 0 6 | 17 51 | 1 13 | 15 55 | 1 20 | 13 35 | 2 15 | 22 50 | 0 8 | 22 45 | 0 51 | 15 29 | 5 48 | 22 47 | 22 36 | 22 22 | | n.a. |
| S 26 | 20 44 | 18 54 | 3 6 | 15 1 | 1 5 | 21 3 | 0 8 | 17 37 | 1 12 | 15 52 | 1 20 | 13 34 | 2 15 | 22 49 | 0 8 | 22 45 | 0 51 | 15 29 | 5 48 | 22 48 | 22 36 | 22 22 | | n.a. |
| S 27 | 20 56 | 21 35 | 1 57 | 15 34 | 0 57 | 21 20 | 0 11 | 17 23 | 1 11 | 15 50 | 1 20 | 13 33 | 2 14 | 22 49 | 0 8 | 22 45 | 0 51 | 15 29 | 5 48 | 22 48 | 22 37 | 22 22 | | n.a. |
| M28 | 21 8 | 22 48 | 0 39 | 16 6 | 0 50 | 21 36 | 0 13 | 17 9 | 1 9 | 15 47 | 1 20 | 13 32 | 2 14 | 22 49 | 0 8 | 22 45 | 0 51 | 15 28 | 5 48 | 22 48 | 22 37 | 22 22 | | n.a. |
| T 29 | 21 19 | 22 25 | 0 s40 | 16 38 | 0 42 | 21 52 | 0 15 | 16 54 | 1 8 | 15 44 | 1 19 | 13 30 | 2 14 | 22 48 | 0 8 | 22 45 | 0 51 | 15 28 | 5 48 | 22 48 | 22 37 | 22 22 | | n.a. |
| W30 | 21 s30 | 20 s32 | 1 s56 | 17 s10 | 0n35 | 22 s 7 | 0 s18 | 16 s40 | 1 s 7 | 15 s41 | 1 s19 | 13 s29 | 2 s14 | 22n48 | 0n 8 | 22n45 | 0 s51 | 15n28 | 5 s47 | 22n48 | 22n38 | 22n21 | | n.a. |

Julian Day Number = 1697255.5, Delta T = 03h07m24s
Ecliptic obliquity = 23°42'08, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°58'39, Lahiri = - 4°51'39 Julian Calendar 1 Nov. 67 BCE == Greg. Calendar 30 Oct. 067 BCE

The year -66 astronomical counting style corresponds to year 067 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 67 BCE
# geocentric

## DECEMBER 67 BCE (-66) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 4 27 19 | 6♐47'48 | 21♒32 | 20♏39 | 8♐54 | 18♒41 | 21♒47 | 0♓34 | 13°R27 | 24°R48 | 3°R52 | 15♋24 | 16♋47 | 21♋54 | n.a. | T 1 |
| F 2 | 4 31 15 | 7°49'03 | 5♓31 | 22° 7 | 10° 9 | 19°23 | 21°56 | 0°37 | 13♊24 | 24♊46 | 3♊51 | 15°R25 | 16°43 | 22° 0 | n.a. | F 2 |
| S 3 | 4 35 12 | 8°50'18 | 19°14 | 23°36 | 11°25 | 20° 5 | 22° 4 | 0°40 | 13°22 | 24°45 | 3°50 | 15°25 | 16°40 | 22° 7 | n.a. | S 3 |
| S 4 | 4 39 8 | 9°51'33 | 2♈41 | 25° 5 | 12°40 | 20°48 | 22°13 | 0°43 | 13°19 | 24°43 | 3°48 | 15°23 | 16°37 | 22°14 | n.a. | S 4 |
| M 5 | 4 43 5 | 10°52'47 | 15°53 | 26°35 | 13°56 | 21°30 | 22°22 | 0°46 | 13°17 | 24°41 | 3°47 | 15°19 | 16°34 | 22°20 | n.a. | M 5 |
| T 6 | 4 47 2 | 11°54'01 | 28°51 | 28° 5 | 15°11 | 22°12 | 22°30 | 0°49 | 13°14 | 24°40 | 3°46 | 15°14 | 16°31 | 22°27 | n.a. | T 6 |
| W 7 | 4 50 58 | 12°55'15 | 11♉36 | 29°36 | 16°27 | 22°54 | 22°39 | 0°52 | 13°11 | 24°38 | 3°45 | 15° 8 | 16°28 | 22°34 | n.a. | W 7 |
| T 8 | 4 54 55 | 13°56'29 | 24° 8 | 1♐ 7 | 17°42 | 23°37 | 22°49 | 0°56 | 13° 9 | 24°36 | 3°44 | 15° 2 | 16°24 | 22°40 | n.a. | T 8 |
| F 9 | 4 58 51 | 14°57'42 | 6♊30 | 2°38 | 18°58 | 24°19 | 22°58 | 0°59 | 13° 6 | 24°35 | 3°42 | 14°57 | 16°21 | 22°47 | n.a. | F 9 |
| S 10 | 5 2 48 | 15°58'54 | 18°40 | 4°10 | 20°13 | 25° 1 | 23° 7 | 1° 3 | 13° 4 | 24°33 | 3°41 | 14°53 | 16°18 | 22°54 | n.a. | S 10 |
| S 11 | 5 6 44 | 17° 0'07 | 0♋42 | 5°43 | 21°28 | 25°44 | 23°17 | 1° 6 | 13° 1 | 24°31 | 3°40 | 14°50 | 16°15 | 23° 0 | n.a. | S 11 |
| M12 | 5 10 41 | 18° 1'19 | 12°36 | 7°15 | 22°44 | 26°26 | 23°26 | 1°10 | 12°58 | 24°30 | 3°39 | 14°D50 | 16°12 | 23° 7 | n.a. | M12 |
| T 13 | 5 14 37 | 19° 2'31 | 24°25 | 8°49 | 23°59 | 27° 8 | 23°36 | 1°14 | 12°56 | 24°28 | 3°38 | 14°50 | 16° 8 | 23°14 | n.a. | T 13 |
| W14 | 5 18 34 | 20° 3'43 | 6♌12 | 10°22 | 25°15 | 27°50 | 23°46 | 1°18 | 12°53 | 24°26 | 3°37 | 14°51 | 16° 5 | 23°20 | n.a. | W14 |
| T 15 | 5 22 31 | 21° 4'54 | 18° 0 | 11°56 | 26°30 | 28°33 | 23°56 | 1°22 | 12°51 | 24°25 | 3°35 | 14°53 | 16° 2 | 23°27 | n.a. | T 15 |
| F 16 | 5 26 27 | 22° 6'05 | 29°54 | 13°31 | 27°45 | 29°15 | 24° 6 | 1°26 | 12°48 | 24°23 | 3°34 | 14°55 | 15°59 | 23°33 | n.a. | F 16 |
| S 17 | 5 30 24 | 23° 7'16 | 11♍58 | 15° 6 | 29° 1 | 29°57 | 24°17 | 1°30 | 12°46 | 24°21 | 3°33 | 14°56 | 15°56 | 23°40 | n.a. | S 17 |
| S 18 | 5 34 20 | 24° 8'26 | 24°17 | 16°41 | 0♑16 | 0♓39 | 24°27 | 1°34 | 12°43 | 24°20 | 3°32 | 14°R57 | 15°53 | 23°47 | n.a. | S 18 |
| M19 | 5 38 17 | 25° 9'36 | 6♎55 | 18°17 | 1°31 | 1°21 | 24°38 | 1°39 | 12°41 | 24°18 | 3°31 | 14°56 | 15°49 | 23°53 | n.a. | M19 |
| T 20 | 5 42 13 | 26°10'45 | 19°57 | 19°54 | 2°47 | 2° 4 | 24°48 | 1°43 | 12°38 | 24°16 | 3°30 | 14°55 | 15°46 | 24° 0 | n.a. | T 20 |
| W21 | 5 46 10 | 27°11'54 | 3♏26 | 21°31 | 4° 2 | 2°46 | 24°59 | 1°48 | 12°36 | 24°14 | 3°29 | 14°53 | 15°43 | 24° 7 | n.a. | W21 |
| T 22 | 5 50 6 | 28°13'03 | 17°23 | 23° 9 | 5°17 | 3°28 | 25°10 | 1°52 | 12°33 | 24°13 | 3°28 | 14°50 | 15°40 | 24°13 | n.a. | T 22 |
| F 23 | 5 54 3 | 29°14'11 | 1♐46 | 24°47 | 6°33 | 4°10 | 25°21 | 1°57 | 12°31 | 24°11 | 3°27 | 14°48 | 15°37 | 24°20 | n.a. | F 23 |
| S 24 | 5 58 0 | 0♑15'19 | 16°31 | 26°26 | 7°48 | 4°52 | 25°32 | 2° 2 | 12°28 | 24° 9 | 3°25 | 14°46 | 15°34 | 24°27 | n.a. | S 24 |
| S 25 | 6 1 56 | 1°16'26 | 1♑32 | 28° 5 | 9° 3 | 5°34 | 25°43 | 2° 7 | 12°26 | 24° 8 | 3°24 | 14°45 | 15°30 | 24°33 | n.a. | S 25 |
| M26 | 6 5 53 | 2°17'31 | 16°39 | 29°45 | 10°18 | 6°17 | 25°54 | 2°12 | 12°23 | 24° 6 | 3°23 | 14°D45 | 15°27 | 24°40 | n.a. | M26 |
| T 27 | 6 9 49 | 3°18'36 | 1♒44 | 1♑26 | 11°34 | 6°59 | 26° 6 | 2°17 | 12°21 | 24° 4 | 3°22 | 14°45 | 15°24 | 24°47 | n.a. | T 27 |
| W28 | 6 13 46 | 4°19'40 | 16°38 | 3° 7 | 12°49 | 7°41 | 26°17 | 2°22 | 12°19 | 24° 3 | 3°21 | 14°46 | 15°21 | 24°53 | n.a. | W28 |
| T 29 | 6 17 42 | 5°20'42 | 1♓14 | 4°49 | 14° 4 | 8°23 | 26°29 | 2°27 | 12°16 | 24° 1 | 3°20 | 14°47 | 15°18 | 25° 0 | n.a. | T 29 |
| F 30 | 6 21 39 | 6°21'43 | 15°29 | 6°31 | 15°19 | 9° 5 | 26°40 | 2°32 | 12°14 | 23°59 | 3°19 | 14°48 | 15°14 | 25° 7 | n.a. | F 30 |
| S 31 | 6 25 36 | 7♑22'43 | 29♓19 | 8♑14 | 16♑35 | 9♓47 | 26♒52 | 2♓38 | 12♊12 | 23♊58 | 3♊18 | 14♋48 | 15♋11 | 25♋13 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21s41 | 17s23 | 3s 4 | 17s40 | 0n27 | 22s21 | 0s20 | 16s26 | 1s 5 | 15s38 | 1s19 | 13s28 | 2s14 | 22n48 | 0n 8 | 22n45 | 0s51 | 15n28 | 5s47 | 22n48 | 22n38 | 22n21 | | n.a. |
| F 2 | 21 51 | 13 18 | 4 0 | 18 11 | 0 20 | 22 35 | 0 22 | 16 11 | 1 4 | 15 36 | 1 19 | 13 27 | 2 13 | 22 47 | 0 8 | 22 45 | 0 51 | 15 28 | 5 47 | 22 48 | 22 39 | 22 21 | | n.a. |
| S 3 | 22 1 | 8 35 | 4 40 | 18 41 | 0 12 | 22 48 | 0 25 | 15 56 | 1 3 | 15 33 | 1 19 | 13 26 | 2 13 | 22 47 | 0 8 | 22 45 | 0 51 | 15 28 | 5 47 | 22 48 | 22 39 | 22 21 | | n.a. |
| S 4 | 22 10 | 3 34 | 5 4 | 19 10 | 0 5 | 23 1 | 0 27 | 15 42 | 1 2 | 15 30 | 1 18 | 13 25 | 2 13 | 22 47 | 0 8 | 22 45 | 0 51 | 15 28 | 5 47 | 22 48 | 22 39 | 22 21 | | n.a. |
| M 5 | 22 19 | 1n31 | 5 12 | 19 38 | 0s 2 | 23 12 | 0 29 | 15 27 | 1 0 | 15 26 | 1 18 | 13 23 | 2 13 | 22 47 | 0 8 | 22 45 | 0 51 | 15 27 | 5 47 | 22 49 | 22 40 | 22 20 | | n.a. |
| T 6 | 22 28 | 6 28 | 5 3 | 20 6 | 0 9 | 23 23 | 0 32 | 15 12 | 0 59 | 15 23 | 1 18 | 13 22 | 2 13 | 22 46 | 0 8 | 22 45 | 0 51 | 15 27 | 5 47 | 22 49 | 22 40 | 22 20 | | n.a. |
| W 7 | 22 36 | 11 3 | 4 40 | 20 33 | 0 16 | 23 34 | 0 34 | 14 56 | 0 58 | 15 20 | 1 18 | 13 21 | 2 12 | 22 46 | 0 8 | 22 44 | 0 51 | 15 27 | 5 47 | 22 50 | 22 41 | 22 20 | | n.a. |
| T 8 | 22 43 | 15 6 | 4 3 | 20 59 | 0 23 | 23 43 | 0 36 | 14 41 | 0 57 | 15 17 | 1 18 | 13 19 | 2 12 | 22 46 | 0 8 | 22 44 | 0 51 | 15 27 | 5 47 | 22 51 | 22 41 | 22 20 | | n.a. |
| F 9 | 22 51 | 18 26 | 3 15 | 21 24 | 0 29 | 23 52 | 0 38 | 14 26 | 0 55 | 15 14 | 1 17 | 13 18 | 2 12 | 22 45 | 0 8 | 22 44 | 0 51 | 15 27 | 5 47 | 22 51 | 22 41 | 22 19 | | n.a. |
| S 10 | 22 57 | 20 55 | 2 19 | 21 48 | 0 36 | 24 0 | 0 40 | 14 10 | 0 54 | 15 10 | 1 17 | 13 16 | 2 12 | 22 45 | 0 8 | 22 44 | 0 51 | 15 27 | 5 47 | 22 52 | 22 42 | 22 19 | | n.a. |
| S 11 | 23 4 | 22 25 | 1 17 | 22 11 | 0 42 | 24 8 | 0 42 | 13 55 | 0 53 | 15 7 | 1 17 | 13 15 | 2 12 | 22 45 | 0 8 | 22 44 | 0 51 | 15 27 | 5 47 | 22 52 | 22 42 | 22 19 | | n.a. |
| M12 | 23 9 | 22 54 | 0 12 | 22 33 | 0 48 | 24 14 | 0 44 | 13 39 | 0 52 | 15 4 | 1 17 | 13 13 | 2 11 | 22 44 | 0 8 | 22 44 | 0 51 | 15 26 | 5 47 | 22 52 | 22 42 | 22 19 | | n.a. |
| T 13 | 23 15 | 22 20 | 0n53 | 22 54 | 0 54 | 24 20 | 0 46 | 13 24 | 0 51 | 15 0 | 1 17 | 13 12 | 2 11 | 22 44 | 0 8 | 22 44 | 0 51 | 15 26 | 5 47 | 22 52 | 22 43 | 22 18 | | n.a. |
| W14 | 23 20 | 20 47 | 1 55 | 23 14 | 1 0 | 24 25 | 0 49 | 13 8 | 0 49 | 14 57 | 1 17 | 13 10 | 2 11 | 22 44 | 0 8 | 22 44 | 0 51 | 15 26 | 5 46 | 22 52 | 22 43 | 22 18 | | n.a. |
| T 15 | 23 24 | 18 20 | 2 53 | 23 33 | 1 6 | 24 30 | 0 50 | 12 52 | 0 48 | 14 53 | 1 16 | 13 9 | 2 11 | 22 43 | 0 8 | 22 44 | 0 51 | 15 26 | 5 46 | 22 52 | 22 44 | 22 18 | | n.a. |
| F 16 | 23 28 | 15 7 | 3 44 | 23 51 | 1 11 | 24 33 | 0 52 | 12 36 | 0 47 | 14 50 | 1 16 | 13 7 | 2 11 | 22 43 | 0 8 | 22 44 | 0 51 | 15 26 | 5 46 | 22 51 | 22 44 | 22 18 | | n.a. |
| S 17 | 23 31 | 11 14 | 4 26 | 24 8 | 1 17 | 24 36 | 0 54 | 12 20 | 0 46 | 14 46 | 1 16 | 13 5 | 2 11 | 22 43 | 0 8 | 22 44 | 0 51 | 15 26 | 5 46 | 22 51 | 22 44 | 22 17 | | n.a. |
| S 18 | 23 34 | 6 49 | 4 56 | 24 23 | 1 22 | 24 38 | 0 56 | 12 4 | 0 45 | 14 42 | 1 16 | 13 4 | 2 10 | 22 42 | 0 8 | 22 44 | 0 51 | 15 26 | 5 46 | 22 51 | 22 45 | 22 17 | | n.a. |
| M19 | 23 37 | 2 1 | 5 13 | 24 37 | 1 26 | 24 40 | 0 58 | 11 47 | 0 44 | 14 39 | 1 16 | 13 2 | 2 10 | 22 42 | 0 8 | 22 44 | 0 51 | 15 26 | 5 46 | 22 51 | 22 45 | 22 17 | | n.a. |
| T 20 | 23 39 | 3s 2 | 5 15 | 24 49 | 1 31 | 24 40 | 1 0 | 11 31 | 0 43 | 14 35 | 1 16 | 13 0 | 2 10 | 22 42 | 0 8 | 22 44 | 0 51 | 15 25 | 5 46 | 22 51 | 22 46 | 22 16 | | n.a. |
| W21 | 23 40 | 8 6 | 5 0 | 25 1 | 1 35 | 24 40 | 1 2 | 11 15 | 0 41 | 14 31 | 1 15 | 12 58 | 2 10 | 22 41 | 0 8 | 22 44 | 0 51 | 15 25 | 5 46 | 22 52 | 22 46 | 22 16 | | n.a. |
| T 22 | 23 41 | 12 56 | 4 27 | 25 10 | 1 39 | 24 39 | 1 3 | 10 58 | 0 40 | 14 27 | 1 15 | 12 56 | 2 10 | 22 41 | 0 8 | 22 44 | 0 51 | 15 25 | 5 46 | 22 52 | 22 46 | 22 16 | | n.a. |
| F 23 | 23 42 | 17 13 | 3 36 | 25 19 | 1 43 | 24 37 | 1 5 | 10 42 | 0 39 | 14 23 | 1 15 | 12 55 | 2 10 | 22 41 | 0 8 | 22 43 | 0 51 | 15 25 | 5 46 | 22 52 | 22 47 | 22 15 | | n.a. |
| S 24 | 23 42 | 20 31 | 2 30 | 25 26 | 1 46 | 24 35 | 1 7 | 10 25 | 0 38 | 14 19 | 1 15 | 12 53 | 2 9 | 22 41 | 0 8 | 22 43 | 0 51 | 15 25 | 5 45 | 22 52 | 22 47 | 22 15 | | n.a. |
| S 25 | 23 42 | 22 29 | 1 13 | 25 31 | 1 50 | 24 31 | 1 8 | 10 8 | 0 37 | 14 15 | 1 15 | 12 51 | 2 9 | 22 40 | 0 8 | 22 43 | 0 51 | 15 25 | 5 45 | 22 53 | 22 47 | 22 15 | | n.a. |
| M26 | 23 41 | 22 50 | 0s11 | 25 35 | 1 52 | 24 27 | 1 10 | 9 52 | 0 36 | 14 11 | 1 15 | 12 49 | 2 9 | 22 40 | 0 8 | 22 43 | 0 51 | 15 25 | 5 45 | 22 53 | 22 48 | 22 14 | | n.a. |
| T 27 | 23 40 | 21 30 | 1 33 | 25 37 | 1 55 | 24 22 | 1 11 | 9 35 | 0 35 | 14 7 | 1 14 | 12 47 | 2 9 | 22 40 | 0 8 | 22 43 | 0 51 | 15 25 | 5 45 | 22 53 | 22 48 | 22 14 | | n.a. |
| W28 | 23 38 | 18 41 | 2 48 | 25 37 | 1 57 | 24 17 | 1 13 | 9 18 | 0 34 | 14 3 | 1 14 | 12 45 | 2 9 | 22 39 | 0 8 | 22 43 | 0 51 | 15 25 | 5 45 | 22 52 | 22 48 | 22 14 | | n.a. |
| T 29 | 23 36 | 14 44 | 3 51 | 25 36 | 1 59 | 24 11 | 1 14 | 9 1 | 0 33 | 13 59 | 1 14 | 12 43 | 2 9 | 22 39 | 0 8 | 22 43 | 0 51 | 15 25 | 5 45 | 22 52 | 22 49 | 22 13 | | n.a. |
| F 30 | 23 33 | 10 2 | 4 37 | 25 33 | 2 0 | 24 3 | 1 15 | 8 44 | 0 32 | 13 55 | 1 14 | 12 41 | 2 9 | 22 39 | 0 8 | 22 43 | 0 51 | 15 25 | 5 45 | 22 52 | 22 49 | 22 13 | | n.a. |
| S 31 | 23s30 | 4s57 | 5s 6 | 25s28 | 2s 1 | 23s56 | 1s17 | 8s27 | 0s31 | 13s51 | 1s14 | 12s39 | 2s 8 | 22n38 | 0n 8 | 22n43 | 0s51 | 15n25 | 5s45 | 22n52 | 22n50 | 22n13 | | n.a. |

Julian Day Number = 1697285.5, Delta T = 03h07m23s
Ecliptic obliquity = 23°42'08, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°58'35, Lahiri = - 4°51'35 Julian Calendar 1 Dec. 67 BCE == Greg. Calendar 29 Nov. 067 BCE

The year -66 astronomical counting style corresponds to year 067 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 66 BCE
# geocentric

## JANUARY 66 BCE (-65) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 29 32 | 8♉23'41 | 12♈47 | 9♉58 | 17♉50 | 10♓29 | 27♒ 4 | 2♓43 | 12°R 9 | 23°R56 | 3°R17 | 14°R48 | 15♋ 8 | 25♋20 | n.a. | S 1 |
| M 2 | 6 33 29 | 9°24'38 | 25°52 | 11°43 | 19° 5 | 11°11 | 27°16 | 2°48 | 12♊ 7 | 23♊54 | 3♊16 | 14♋48 | 15° 5 | 25°26 | n.a. | M 2 |
| T 3 | 6 37 25 | 10°25'33 | 8♉39 | 13°28 | 20°20 | 11°53 | 27°28 | 2°54 | 12° 5 | 23°53 | 3°15 | 14°48 | 15° 2 | 25°33 | n.a. | T 3 |
| W 4 | 6 41 22 | 11°26'27 | 21° 9 | 15°13 | 21°35 | 12°35 | 27°40 | 3° 0 | 12° 3 | 23°51 | 3°15 | 14°47 | 14°59 | 25°40 | n.a. | W 4 |
| T 5 | 6 45 18 | 12°27'20 | 3♊26 | 17° 0 | 22°50 | 13°17 | 27°52 | 3° 5 | 12° 1 | 23°50 | 3°14 | 14°47 | 14°55 | 25°46 | n.a. | T 5 |
| F 6 | 6 49 15 | 13°28'11 | 15°32 | 18°46 | 24° 5 | 13°59 | 28° 4 | 3°11 | 11°59 | 23°48 | 3°13 | 14°46 | 14°52 | 25°53 | n.a. | F 6 |
| S 7 | 6 53 11 | 14°29'01 | 27°31 | 20°33 | 25°20 | 14°41 | 28°17 | 3°17 | 11°56 | 23°46 | 3°12 | 14°D46 | 14°49 | 26° 0 | n.a. | S 7 |
| S 8 | 6 57 8 | 15°29'49 | 9♋24 | 22°21 | 26°35 | 15°23 | 28°29 | 3°23 | 11°54 | 23°45 | 3°11 | 14°R46 | 14°46 | 26° 6 | n.a. | S 8 |
| M 9 | 7 1 5 | 16°30'36 | 21°13 | 24° 9 | 27°50 | 16° 5 | 28°42 | 3°29 | 11°52 | 23°43 | 3°10 | 14°46 | 14°43 | 26°13 | n.a. | M 9 |
| T 10 | 7 5 1 | 17°31'21 | 3♌ 1 | 25°57 | 29° 5 | 16°46 | 28°54 | 3°35 | 11°50 | 23°42 | 3° 9 | 14°46 | 14°40 | 26°20 | n.a. | T 10 |
| W11 | 7 8 58 | 18°32'06 | 14°50 | 27°46 | 0♒20 | 17°28 | 29° 7 | 3°41 | 11°49 | 23°40 | 3° 9 | 14°46 | 14°36 | 26°26 | n.a. | W11 |
| T 12 | 7 12 54 | 19°32'48 | 26°41 | 29°34 | 1°35 | 18°10 | 29°20 | 3°47 | 11°47 | 23°39 | 3° 8 | 14°45 | 14°33 | 26°33 | n.a. | T 12 |
| F 13 | 7 16 51 | 20°33'30 | 8♍39 | 1♒22 | 2°50 | 18°52 | 29°32 | 3°53 | 11°45 | 23°37 | 3° 7 | 14°45 | 14°30 | 26°40 | n.a. | F 13 |
| S 14 | 7 20 47 | 21°34'10 | 20°46 | 3° 9 | 4° 5 | 19°33 | 29°45 | 3°59 | 11°43 | 23°36 | 3° 6 | 14°44 | 14°27 | 26°46 | n.a. | S 14 |
| S 15 | 7 24 44 | 22°34'49 | 3♎ 6 | 4°56 | 5°20 | 20°15 | 29°58 | 4° 5 | 11°41 | 23°34 | 3° 5 | 14°43 | 14°24 | 26°53 | n.a. | S 15 |
| M16 | 7 28 40 | 23°35'26 | 15°41 | 6°42 | 6°35 | 20°57 | 0♓11 | 4°12 | 11°39 | 23°33 | 3° 5 | 14°42 | 14°20 | 27° 0 | n.a. | M16 |
| T 17 | 7 32 37 | 24°36'02 | 28°37 | 8°26 | 7°50 | 21°39 | 0°24 | 4°18 | 11°38 | 23°31 | 3° 4 | 14°D42 | 14°17 | 27° 6 | n.a. | T 17 |
| W18 | 7 36 34 | 25°36'37 | 11♏56 | 10° 9 | 9° 5 | 22°20 | 0°37 | 4°25 | 11°36 | 23°30 | 3° 3 | 14°43 | 14°14 | 27°13 | n.a. | W18 |
| T 19 | 7 40 30 | 26°37'11 | 25°41 | 11°49 | 10°20 | 23° 2 | 0°51 | 4°31 | 11°34 | 23°29 | 3° 3 | 14°44 | 14°11 | 27°19 | n.a. | T 19 |
| F 20 | 7 44 27 | 27°37'43 | 9♐52 | 13°27 | 11°35 | 23°43 | 1° 4 | 4°38 | 11°33 | 23°27 | 3° 2 | 14°45 | 14° 8 | 27°26 | n.a. | F 20 |
| S 21 | 7 48 23 | 28°38'14 | 24°29 | 15° 1 | 12°49 | 24°25 | 1°17 | 4°44 | 11°31 | 23°26 | 3° 1 | 14°46 | 14° 5 | 27°33 | n.a. | S 21 |
| S 22 | 7 52 20 | 29°38'43 | 9♉25 | 16°32 | 14° 4 | 25° 7 | 1°31 | 4°51 | 11°30 | 23°25 | 3° 1 | 14°R46 | 14° 1 | 27°39 | n.a. | S 22 |
| M23 | 7 56 16 | 0♒39'11 | 24°35 | 17°58 | 15°19 | 25°48 | 1°44 | 4°58 | 11°28 | 23°23 | 3° 0 | 14°46 | 13°58 | 27°46 | n.a. | M23 |
| T 24 | 8 0 13 | 1°39'37 | 9♒50 | 19°20 | 16°34 | 26°30 | 1°57 | 5° 4 | 11°27 | 23°22 | 3° 0 | 14°45 | 13°55 | 27°53 | n.a. | T 24 |
| W25 | 8 4 9 | 2°40'01 | 24°58 | 20°35 | 17°48 | 27°11 | 2°11 | 5°11 | 11°26 | 23°21 | 2°59 | 14°43 | 13°52 | 27°59 | n.a. | W25 |
| T 26 | 8 8 6 | 3°40'23 | 9♓52 | 21°44 | 19° 3 | 27°53 | 2°25 | 5°18 | 11°24 | 23°20 | 2°59 | 14°41 | 13°49 | 28° 6 | n.a. | T 26 |
| F 27 | 8 12 3 | 4°40'43 | 24°23 | 22°46 | 20°18 | 28°34 | 2°38 | 5°25 | 11°23 | 23°19 | 2°58 | 14°38 | 13°46 | 28°13 | n.a. | F 27 |
| S 28 | 8 15 59 | 5°41'01 | 8♈28 | 23°41 | 21°33 | 29°15 | 2°52 | 5°32 | 11°22 | 23°17 | 2°58 | 14°36 | 13°42 | 28°19 | n.a. | S 28 |
| S 29 | 8 19 56 | 6°41'17 | 22° 4 | 24°27 | 22°47 | 29°57 | 3° 6 | 5°39 | 11°21 | 23°16 | 2°57 | 14°34 | 13°39 | 28°26 | n.a. | S 29 |
| M30 | 8 23 52 | 7°41'30 | 5♉14 | 25° 5 | 24° 2 | 0♈38 | 3°19 | 5°46 | 11°19 | 23°15 | 2°57 | 14°D33 | 13°36 | 28°33 | n.a. | M30 |
| T 31 | 8 27 49 | 8♒41'42 | 17♉59 | 25♒34 | 25♒16 | 1♈19 | 3♓33 | 5♓53 | 11♊18 | 23♊14 | 2♊56 | 14♋34 | 13♋33 | 28♋39 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| S 1 | 23 s26 | 0n14 | 5 s18 | 25 s21 | 2 s 2 | 23 s47 | 1 s18 | 8 s10 | 0 s30 | 13 s47 | 1 s14 | 12 s37 | 2 s 8 | 22n38 | 0n 8 | 22n43 | 0 s51 | 15n25 | 5 s44 | 22n52 | 22n50 | 22n12 | | | n.a. |
| M 2 | 23 22 | 5 16 | 5 12 | 25 12 | 2 2 | 23 38 | 1 19 | 7 53 | 0 29 | 13 42 | 1 14 | 12 34 | 2 8 | 22 38 | 0 8 | 22 43 | 0 51 | 15 24 | 5 44 | 22 52 | 22 50 | 22 12 | | | n.a. |
| T 3 | 23 17 | 9 57 | 4 51 | 25 2 | 2 2 | 23 28 | 1 20 | 7 36 | 0 28 | 13 38 | 1 14 | 12 32 | 2 8 | 22 38 | 0 8 | 22 43 | 0 51 | 15 24 | 5 44 | 22 52 | 22 51 | 22 11 | | | n.a. |
| W 4 | 23 12 | 14 7 | 4 16 | 24 50 | 2 1 | 23 17 | 1 21 | 7 19 | 0 26 | 13 34 | 1 13 | 12 30 | 2 8 | 22 37 | 0 8 | 22 43 | 0 51 | 15 24 | 5 44 | 22 52 | 22 51 | 22 11 | | | n.a. |
| T 5 | 23 7 | 17 38 | 3 30 | 24 35 | 2 0 | 23 6 | 1 22 | 7 2 | 0 25 | 13 29 | 1 13 | 12 28 | 2 8 | 22 37 | 0 8 | 22 43 | 0 51 | 15 24 | 5 44 | 22 52 | 22 51 | 22 11 | | | n.a. |
| F 6 | 23 1 | 20 20 | 2 36 | 24 19 | 1 58 | 22 53 | 1 23 | 6 45 | 0 24 | 13 25 | 1 13 | 12 26 | 2 8 | 22 37 | 0 8 | 22 43 | 0 51 | 15 24 | 5 44 | 22 52 | 22 52 | 22 10 | | | n.a. |
| S 7 | 22 54 | 22 6 | 1 35 | 24 1 | 1 56 | 22 41 | 1 24 | 6 27 | 0 23 | 13 21 | 1 13 | 12 23 | 2 8 | 22 36 | 0 8 | 22 43 | 0 51 | 15 24 | 5 44 | 22 52 | 22 52 | 22 10 | | | n.a. |
| S 8 | 22 47 | 22 52 | 0 30 | 23 41 | 1 53 | 22 27 | 1 25 | 6 10 | 0 22 | 13 16 | 1 13 | 12 21 | 2 7 | 22 36 | 0 8 | 22 43 | 0 51 | 15 24 | 5 43 | 22 52 | 22 52 | 22 9 | | | n.a. |
| M 9 | 22 40 | 22 36 | 0n36 | 23 19 | 1 49 | 22 13 | 1 25 | 5 53 | 0 21 | 13 12 | 1 13 | 12 19 | 2 7 | 22 36 | 0 8 | 22 43 | 0 51 | 15 24 | 5 43 | 22 52 | 22 53 | 22 9 | | | n.a. |
| T 10 | 22 32 | 21 19 | 1 40 | 22 55 | 1 45 | 21 58 | 1 26 | 5 36 | 0 21 | 13 7 | 1 13 | 12 17 | 2 7 | 22 36 | 0 8 | 22 42 | 0 51 | 15 24 | 5 43 | 22 52 | 22 53 | 22 9 | | | n.a. |
| W11 | 22 24 | 19 6 | 2 40 | 22 29 | 1 40 | 21 43 | 1 27 | 5 18 | 0 20 | 13 2 | 1 13 | 12 14 | 2 7 | 22 35 | 0 8 | 22 42 | 0 51 | 15 24 | 5 43 | 22 52 | 22 54 | 22 8 | | | n.a. |
| T 12 | 22 16 | 16 5 | 3 33 | 22 1 | 1 35 | 21 26 | 1 27 | 5 1 | 0 19 | 12 58 | 1 12 | 12 12 | 2 7 | 22 35 | 0 8 | 22 42 | 0 51 | 15 24 | 5 43 | 22 53 | 22 54 | 22 8 | | | n.a. |
| F 13 | 22 7 | 12 22 | 4 17 | 21 31 | 1 29 | 21 10 | 1 28 | 4 43 | 0 18 | 12 53 | 1 12 | 12 10 | 2 7 | 22 35 | 0 8 | 22 42 | 0 51 | 15 24 | 5 43 | 22 53 | 22 54 | 22 7 | | | n.a. |
| S 14 | 21 57 | 8 8 | 4 50 | 21 0 | 1 22 | 20 52 | 1 28 | 4 26 | 0 17 | 12 48 | 1 12 | 12 7 | 2 7 | 22 35 | 0 8 | 22 42 | 0 51 | 15 24 | 5 43 | 22 53 | 22 55 | 22 7 | | | n.a. |
| S 15 | 21 47 | 3 30 | 5 11 | 20 27 | 1 14 | 20 34 | 1 28 | 4 9 | 0 16 | 12 44 | 1 12 | 12 5 | 2 7 | 22 34 | 0 8 | 22 42 | 0 50 | 15 24 | 5 42 | 22 53 | 22 55 | 22 6 | | | n.a. |
| M16 | 21 37 | 1 s22 | 5 18 | 19 52 | 1 6 | 20 16 | 1 29 | 3 51 | 0 15 | 12 39 | 1 12 | 12 2 | 2 7 | 22 34 | 0 8 | 22 42 | 0 50 | 15 24 | 5 42 | 22 53 | 22 55 | 22 6 | | | n.a. |
| T 17 | 21 26 | 6 18 | 5 8 | 19 16 | 0 57 | 19 57 | 1 29 | 3 34 | 0 14 | 12 34 | 1 12 | 12 0 | 2 6 | 22 34 | 0 8 | 22 42 | 0 50 | 15 24 | 5 42 | 22 53 | 22 56 | 22 5 | | | n.a. |
| W18 | 21 15 | 11 6 | 4 43 | 18 39 | 0 47 | 19 37 | 1 29 | 3 16 | 0 13 | 12 29 | 1 12 | 11 57 | 2 6 | 22 34 | 0 8 | 22 42 | 0 50 | 15 24 | 5 42 | 22 53 | 22 56 | 22 5 | | | n.a. |
| T 19 | 21 4 | 15 30 | 4 0 | 18 1 | 0 36 | 19 17 | 1 29 | 2 59 | 0 12 | 12 25 | 1 12 | 11 55 | 2 6 | 22 33 | 0 8 | 22 42 | 0 50 | 15 24 | 5 42 | 22 53 | 22 56 | 22 4 | | | n.a. |
| F 20 | 20 52 | 19 11 | 3 2 | 17 22 | 0 25 | 18 56 | 1 29 | 2 41 | 0 11 | 12 20 | 1 12 | 11 52 | 2 6 | 22 33 | 0 8 | 22 42 | 0 50 | 15 24 | 5 42 | 22 53 | 22 57 | 22 4 | | | n.a. |
| S 21 | 20 40 | 21 45 | 1 50 | 16 43 | 0 13 | 18 34 | 1 29 | 2 24 | 0 10 | 12 15 | 1 12 | 11 50 | 2 6 | 22 33 | 0 8 | 22 42 | 0 50 | 15 24 | 5 41 | 22 52 | 22 57 | 22 3 | | | n.a. |
| S 22 | 20 27 | 22 52 | 0 30 | 16 3 | 0 0 | 18 13 | 1 29 | 2 6 | 0 9 | 12 10 | 1 12 | 11 47 | 2 6 | 22 33 | 0 8 | 22 42 | 0 50 | 15 24 | 5 41 | 22 52 | 22 57 | 22 3 | | | n.a. |
| M23 | 20 14 | 22 20 | 0 s54 | 15 24 | 0n13 | 17 50 | 1 29 | 1 49 | 0 9 | 12 5 | 1 11 | 11 45 | 2 6 | 22 33 | 0 8 | 22 42 | 0 50 | 15 25 | 5 41 | 22 52 | 22 58 | 22 2 | | | n.a. |
| T 24 | 20 1 | 20 8 | 2 14 | 14 45 | 0 27 | 17 27 | 1 29 | 1 32 | 0 8 | 12 0 | 1 11 | 11 42 | 2 6 | 22 32 | 0 8 | 22 42 | 0 50 | 15 25 | 5 41 | 22 53 | 22 58 | 22 2 | | | n.a. |
| W25 | 19 47 | 16 33 | 3 25 | 14 7 | 0 42 | 17 4 | 1 28 | 1 14 | 0 7 | 11 55 | 1 11 | 11 40 | 2 6 | 22 32 | 0 8 | 22 42 | 0 50 | 15 25 | 5 41 | 22 53 | 22 58 | 22 1 | | | n.a. |
| T 26 | 19 33 | 11 57 | 4 20 | 13 31 | 0 57 | 16 40 | 1 28 | 0 57 | 0 6 | 11 50 | 1 11 | 11 37 | 2 6 | 22 32 | 0 8 | 22 42 | 0 50 | 15 25 | 5 41 | 22 53 | 22 59 | 22 1 | | | n.a. |
| F 27 | 19 18 | 6 47 | 4 56 | 12 56 | 1 12 | 16 16 | 1 28 | 0 39 | 0 5 | 11 45 | 1 11 | 11 34 | 2 6 | 22 32 | 0 8 | 22 42 | 0 50 | 15 25 | 5 40 | 22 53 | 22 59 | 22 0 | | | n.a. |
| S 28 | 19 3 | 1 25 | 5 14 | 12 24 | 1 28 | 15 51 | 1 27 | 0 22 | 0 4 | 11 40 | 1 11 | 11 32 | 2 6 | 22 32 | 0 8 | 22 42 | 0 50 | 15 25 | 5 40 | 22 54 | 22 59 | 22 0 | | | n.a. |
| S 29 | 18 48 | 3n51 | 5 13 | 11 54 | 1 43 | 15 26 | 1 27 | 0 4 | 0 3 | 11 35 | 1 11 | 11 29 | 2 5 | 22 32 | 0 8 | 22 42 | 0 50 | 15 25 | 5 40 | 22 54 | 23 0 | 21 59 | | | n.a. |
| M30 | 18 33 | 8 46 | 4 56 | 11 26 | 1 59 | 15 0 | 1 26 | 0n13 | 0 3 | 11 30 | 1 11 | 11 26 | 2 5 | 22 31 | 0 8 | 22 42 | 0 50 | 15 25 | 5 40 | 22 54 | 23 0 | 21 59 | | | n.a. |
| T 31 | 18 s17 | 13n 9 | 4 s24 | 11 s 2 | 2n14 | 14 s35 | 1 s25 | 0n30 | 0 s 2 | 11 s25 | 1 s11 | 11 s24 | 2 s 5 | 22n31 | 0n 8 | 22n42 | 0 s50 | 15n25 | 5 s40 | 22n54 | 23n 0 | 21n58 | | | n.a. |

Julian Day Number = 1697316.5, Delta T = 03h07m23s
Ecliptic obliquity = 23°42'08, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°58'31, Lahiri = - 4°51'30 Julian Calendar 1 Jan. 66 BCE == Greg. Calendar 30 Dec. 067 BCE

The year -65 astronomical counting style corresponds to year 066 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 66 BCE
# geocentric

## FEBRUARY 66 BCE (-65) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 8 31 45 | 9♒41'51 | 0♊25 | 25♒54 | 26♒31 | 2♈ 1 | 3♓47 | 6♓ 0 | 11°R17 | 23°R13 | 2°R56 | 14♋35 | 13♋30 | 28♋46 | n.a. | W 1 |
| T 2 | 8 35 42 | 10°41'58 | 12°34 | 26° 4 | 27°45 | 2°42 | 4° 1 | 6° 7 | 11♊16 | 23♊12 | 2♊56 | 14°37 | 13°26 | 28°53 | n.a. | T 2 |
| F 3 | 8 39 38 | 11°42'03 | 24°33 | 26°R 4 | 29° 0 | 3°23 | 4°15 | 6°14 | 11°15 | 23°11 | 2°55 | 14°38 | 13°23 | 28°59 | n.a. | F 3 |
| S 4 | 8 43 35 | 12°42'06 | 6♋24 | 25°55 | 0♓14 | 4° 4 | 4°29 | 6°21 | 11°15 | 23°10 | 2°55 | 14°40 | 13°20 | 29° 6 | n.a. | S 4 |
| S 5 | 8 47 32 | 13°42'07 | 18°11 | 25°38 | 1°29 | 4°46 | 4°43 | 6°28 | 11°14 | 23° 9 | 2°55 | 14°R40 | 13°17 | 29°13 | n.a. | S 5 |
| M 6 | 8 51 28 | 14°42'05 | 29°59 | 25°12 | 2°43 | 5°27 | 4°57 | 6°35 | 11°13 | 23° 8 | 2°54 | 14°39 | 13°14 | 29°19 | n.a. | M 6 |
| T 7 | 8 55 25 | 15°42'02 | 11♌48 | 24°38 | 3°57 | 6° 8 | 5°11 | 6°43 | 11°12 | 23° 7 | 2°54 | 14°36 | 13°11 | 29°26 | n.a. | T 7 |
| W 8 | 8 59 21 | 16°41'56 | 23°41 | 23°57 | 5°12 | 6°49 | 5°25 | 6°50 | 11°12 | 23° 6 | 2°54 | 14°32 | 13° 7 | 29°33 | n.a. | W 8 |
| T 9 | 9 3 18 | 17°41'49 | 5♍41 | 23°10 | 6°26 | 7°30 | 5°39 | 6°57 | 11°11 | 23° 5 | 2°54 | 14°26 | 13° 4 | 29°39 | n.a. | T 9 |
| F 10 | 9 7 14 | 18°41'39 | 17°48 | 22°18 | 7°40 | 8°11 | 5°53 | 7° 5 | 11°10 | 23° 4 | 2°53 | 14°20 | 13° 1 | 29°46 | n.a. | F 10 |
| S 11 | 9 11 11 | 19°41'27 | 0♎ 5 | 21°23 | 8°55 | 8°52 | 6° 7 | 7°12 | 11°10 | 23° 4 | 2°53 | 14°14 | 12°58 | 29°52 | n.a. | S 11 |
| S 12 | 9 15 7 | 20°41'14 | 12°33 | 20°26 | 10° 9 | 9°33 | 6°22 | 7°19 | 11° 9 | 23° 3 | 2°53 | 14° 8 | 12°55 | 29°59 | n.a. | S 12 |
| M13 | 9 19 4 | 21°40'59 | 25°13 | 19°28 | 11°23 | 10°14 | 6°36 | 7°27 | 11° 9 | 23° 2 | 2°53 | 14° 3 | 12°51 | 0♌ 6 | n.a. | M13 |
| T 14 | 9 23 1 | 22°40'42 | 8♏10 | 18°30 | 12°37 | 10°55 | 6°50 | 7°34 | 11° 9 | 23° 1 | 2°53 | 14° 0 | 12°48 | 0°12 | n.a. | T 14 |
| W15 | 9 26 57 | 23°40'23 | 21°25 | 17°34 | 13°51 | 11°36 | 7° 4 | 7°42 | 11° 8 | 23° 1 | 2°53 | 13°D59 | 12°45 | 0°19 | n.a. | W15 |
| T 16 | 9 30 54 | 24°40'02 | 4♐59 | 16°40 | 15° 5 | 12°16 | 7°19 | 7°49 | 11° 8 | 23° 0 | 2°53 | 14° 0 | 12°42 | 0°26 | n.a. | T 16 |
| F 17 | 9 34 50 | 25°39'40 | 18°56 | 15°50 | 16°19 | 12°57 | 7°33 | 7°56 | 11° 8 | 23° 0 | 2°53 | 14° 1 | 12°39 | 0°32 | n.a. | F 17 |
| S 18 | 9 38 47 | 26°39'16 | 3♑15 | 15° 5 | 17°33 | 13°38 | 7°47 | 8° 4 | 11° 8 | 22°59 | 2°D53 | 14° 2 | 12°36 | 0°39 | n.a. | S 18 |
| S 19 | 9 42 43 | 27°38'50 | 17°54 | 14°25 | 18°47 | 14°19 | 8° 2 | 8°11 | 11° 8 | 22°58 | 2°53 | 14°R 3 | 12°32 | 0°46 | n.a. | S 19 |
| M20 | 9 46 40 | 28°38'22 | 2♒50 | 13°50 | 20° 1 | 14°59 | 8°16 | 8°19 | 11°D 8 | 22°58 | 2°53 | 14° 1 | 12°29 | 0°52 | n.a. | M20 |
| T 21 | 9 50 36 | 29°37'52 | 17°55 | 13°21 | 21°15 | 15°40 | 8°30 | 8°27 | 11° 8 | 22°57 | 2°53 | 13°58 | 12°26 | 0°59 | n.a. | T 21 |
| W22 | 9 54 33 | 0♓37'19 | 3♓ 0 | 12°58 | 22°29 | 16°21 | 8°45 | 8°34 | 11° 8 | 22°57 | 2°53 | 13°52 | 12°23 | 1° 6 | n.a. | W22 |
| T 23 | 9 58 30 | 1°36'45 | 17°56 | 12°40 | 23°43 | 17° 1 | 8°59 | 8°42 | 11° 8 | 22°57 | 2°53 | 13°45 | 12°20 | 1°12 | n.a. | T 23 |
| F 24 | 10 2 26 | 2°36'09 | 2♈33 | 12°29 | 24°57 | 17°42 | 9°14 | 8°49 | 11° 8 | 22°56 | 2°53 | 13°37 | 12°17 | 1°19 | n.a. | F 24 |
| S 25 | 10 6 23 | 3°35'30 | 16°47 | 12°D24 | 26°10 | 18°23 | 9°28 | 8°57 | 11° 8 | 22°56 | 2°53 | 13°30 | 12°13 | 1°26 | n.a. | S 25 |
| S 26 | 10 10 19 | 4°34'48 | 0♉32 | 12°25 | 27°24 | 19° 3 | 9°43 | 9° 4 | 11° 8 | 22°56 | 2°53 | 13°23 | 12°10 | 1°32 | n.a. | S 26 |
| M27 | 10 14 16 | 5°34'05 | 13°48 | 12°32 | 28°38 | 19°44 | 9°57 | 9°12 | 11° 9 | 22°55 | 2°54 | 13°19 | 12° 7 | 1°39 | n.a. | M27 |
| T 28 | 10 18 12 | 6♓33'19 | 26♉38 | 12♒43 | 29♓51 | 20♈24 | 10♓11 | 9♓19 | 11♊ 9 | 22♊55 | 2♊54 | 13♋17 | 12♋ 4 | 1♌46 | n.a. | T 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 18s 1 | 16n52 | 3s40 | 10s42 | 2n29 | 14s 8 | 1s25 | 0n48 | 0s 1 | 11s20 | 1s11 | 11s21 | 2s 5 | 22n31 | 0n 8 | 22n42 | 0s50 | 15n25 | 5s40 | 22n54 | 23n 1 | 21n58 | | n.a. |
| T 2 | 17 45 | 19 47 | 2 48 | 10 25 | 2 43 | 13 42 | 1 24 | 1 5 | 0 0 | 11 14 | 1 11 | 11 18 | 2 5 | 22 31 | 0 8 | 22 42 | 0 50 | 15 25 | 5 39 | 22 54 | 23 1 | 21 57 | | n.a. |
| F 3 | 17 28 | 21 47 | 1 49 | 10 13 | 2 56 | 13 14 | 1 23 | 1 22 | 0n 1 | 11 9 | 1 11 | 11 16 | 2 5 | 22 31 | 0 8 | 22 42 | 0 50 | 15 25 | 5 39 | 22 53 | 23 1 | 21 57 | | n.a. |
| S 4 | 17 11 | 22 47 | 0 45 | 10 4 | 3 8 | 12 47 | 1 22 | 1 40 | 0 2 | 11 4 | 1 11 | 11 13 | 2 5 | 22 31 | 0 8 | 22 42 | 0 50 | 15 26 | 5 39 | 22 53 | 23 2 | 21 56 | | n.a. |
| S 5 | 16 54 | 22 46 | 0n19 | 10 0 | 3 19 | 12 19 | 1 21 | 1 57 | 0 2 | 10 59 | 1 11 | 11 10 | 2 5 | 22 31 | 0 8 | 22 42 | 0 50 | 15 26 | 5 39 | 22 53 | 23 2 | 21 55 | | n.a. |
| M 6 | 16 36 | 21 44 | 1 23 | 10 0 | 3 29 | 11 51 | 1 20 | 2 14 | 0 3 | 10 54 | 1 11 | 11 7 | 2 5 | 22 31 | 0 8 | 22 42 | 0 50 | 15 26 | 5 39 | 22 53 | 23 2 | 21 55 | | n.a. |
| T 7 | 16 18 | 19 44 | 2 23 | 10 4 | 3 36 | 11 23 | 1 19 | 2 31 | 0 4 | 10 48 | 1 11 | 11 5 | 2 5 | 22 30 | 0 8 | 22 42 | 0 50 | 15 26 | 5 39 | 22 54 | 23 3 | 21 54 | | n.a. |
| W 8 | 16 0 | 16 52 | 3 18 | 10 11 | 3 42 | 10 54 | 1 17 | 2 48 | 0 5 | 10 43 | 1 11 | 11 2 | 2 5 | 22 30 | 0 8 | 22 42 | 0 50 | 15 26 | 5 38 | 22 54 | 23 3 | 21 54 | | n.a. |
| T 9 | 15 42 | 13 17 | 4 3 | 10 23 | 3 46 | 10 25 | 1 16 | 3 5 | 0 5 | 10 38 | 1 10 | 10 59 | 2 5 | 22 30 | 0 8 | 22 42 | 0 50 | 15 26 | 5 38 | 22 55 | 23 3 | 21 53 | | n.a. |
| F 10 | 15 23 | 9 8 | 4 39 | 10 38 | 3 49 | 9 56 | 1 15 | 3 22 | 0 6 | 10 32 | 1 10 | 10 56 | 2 5 | 22 30 | 0 8 | 22 42 | 0 50 | 15 26 | 5 38 | 22 55 | 23 3 | 21 53 | | n.a. |
| S 11 | 15 4 | 4 34 | 5 2 | 10 55 | 3 49 | 9 27 | 1 13 | 3 39 | 0 7 | 10 27 | 1 10 | 10 53 | 2 5 | 22 30 | 0 8 | 22 42 | 0 50 | 15 26 | 5 38 | 22 56 | 23 4 | 21 52 | | n.a. |
| S 12 | 14 45 | 0s14 | 5 11 | 11 15 | 3 47 | 8 57 | 1 12 | 3 56 | 0 8 | 10 22 | 1 10 | 10 51 | 2 5 | 22 30 | 0 8 | 22 42 | 0 50 | 15 27 | 5 38 | 22 57 | 23 4 | 21 51 | | n.a. |
| M13 | 14 26 | 5 8 | 5 5 | 11 38 | 3 43 | 8 27 | 1 10 | 4 13 | 0 8 | 10 16 | 1 10 | 10 48 | 2 5 | 22 30 | 0 8 | 22 42 | 0 50 | 15 27 | 5 38 | 22 57 | 23 4 | 21 51 | | n.a. |
| T 14 | 14 6 | 9 54 | 4 44 | 12 1 | 3 37 | 7 57 | 1 9 | 4 30 | 0 9 | 10 11 | 1 10 | 10 45 | 2 5 | 22 30 | 0 8 | 22 42 | 0 50 | 15 27 | 5 37 | 22 57 | 23 5 | 21 50 | | n.a. |
| W15 | 13 47 | 14 20 | 4 7 | 12 25 | 3 29 | 7 27 | 1 7 | 4 47 | 0 10 | 10 6 | 1 10 | 10 42 | 2 5 | 22 30 | 0 8 | 22 42 | 0 49 | 15 27 | 5 37 | 22 58 | 23 5 | 21 49 | | n.a. |
| T 16 | 13 27 | 18 9 | 3 16 | 12 50 | 3 20 | 6 56 | 1 5 | 5 4 | 0 11 | 10 0 | 1 10 | 10 39 | 2 5 | 22 30 | 0 8 | 22 42 | 0 49 | 15 27 | 5 37 | 22 57 | 23 5 | 21 49 | | n.a. |
| F 17 | 13 6 | 21 2 | 2 12 | 13 15 | 3 9 | 6 26 | 1 4 | 5 21 | 0 11 | 9 55 | 1 10 | 10 36 | 2 5 | 22 30 | 0 8 | 22 42 | 0 49 | 15 27 | 5 37 | 22 57 | 23 6 | 21 48 | | n.a. |
| S 18 | 12 46 | 22 41 | 0 58 | 13 40 | 2 57 | 5 55 | 1 2 | 5 37 | 0 12 | 9 49 | 1 10 | 10 34 | 2 5 | 22 30 | 0 8 | 22 42 | 0 49 | 15 28 | 5 37 | 22 57 | 23 6 | 21 48 | | n.a. |
| S 19 | 12 25 | 22 50 | 0s21 | 14 4 | 2 45 | 5 24 | 1 0 | 5 54 | 0 13 | 9 44 | 1 10 | 10 31 | 2 5 | 22 30 | 0 8 | 22 42 | 0 49 | 15 28 | 5 36 | 22 57 | 23 6 | 21 47 | | n.a. |
| M20 | 12 5 | 21 22 | 1 40 | 14 27 | 2 31 | 4 53 | 0 58 | 6 11 | 0 13 | 9 39 | 1 10 | 10 28 | 2 5 | 22 30 | 0 8 | 22 42 | 0 49 | 15 28 | 5 36 | 22 57 | 23 7 | 21 46 | | n.a. |
| T 21 | 11 44 | 18 22 | 2 53 | 14 49 | 2 17 | 4 22 | 0 56 | 6 27 | 0 14 | 9 33 | 1 10 | 10 25 | 2 5 | 22 30 | 0 8 | 22 42 | 0 49 | 15 28 | 5 36 | 22 58 | 23 7 | 21 46 | | n.a. |
| W22 | 11 22 | 14 8 | 3 53 | 15 9 | 2 3 | 3 50 | 0 54 | 6 43 | 0 15 | 9 28 | 1 10 | 10 22 | 2 5 | 22 30 | 0 9 | 22 42 | 0 49 | 15 28 | 5 36 | 22 58 | 23 7 | 21 45 | | n.a. |
| T 23 | 11 1 | 9 4 | 4 37 | 15 28 | 1 48 | 3 19 | 0 52 | 7 0 | 0 16 | 9 22 | 1 10 | 10 19 | 2 5 | 22 30 | 0 9 | 22 42 | 0 49 | 15 29 | 5 36 | 22 59 | 23 7 | 21 44 | | n.a. |
| F 24 | 10 40 | 3 35 | 5 2 | 15 45 | 1 33 | 2 47 | 0 50 | 7 16 | 0 16 | 9 17 | 1 10 | 10 16 | 2 5 | 22 30 | 0 9 | 22 42 | 0 49 | 15 29 | 5 36 | 23 0 | 23 8 | 21 44 | | n.a. |
| S 25 | 10 18 | 1n56 | 5 7 | 16 0 | 1 19 | 2 16 | 0 48 | 7 32 | 0 17 | 9 11 | 1 10 | 10 14 | 2 5 | 22 30 | 0 9 | 22 42 | 0 49 | 15 29 | 5 35 | 23 1 | 23 8 | 21 43 | | n.a. |
| S 26 | 9 56 | 7 12 | 4 54 | 16 14 | 1 4 | 1 44 | 0 45 | 7 49 | 0 18 | 9 6 | 1 10 | 10 11 | 2 5 | 22 30 | 0 9 | 22 42 | 0 49 | 15 29 | 5 35 | 23 1 | 23 8 | 21 42 | | n.a. |
| M27 | 9 34 | 11 56 | 4 26 | 16 26 | 0 50 | 1 13 | 0 43 | 8 5 | 0 18 | 9 0 | 1 10 | 10 8 | 2 5 | 22 30 | 0 9 | 22 42 | 0 49 | 15 29 | 5 35 | 23 2 | 23 9 | 21 41 | | n.a. |
| T 28 | 9s12 | 15n59 | 3s44 | 16s36 | 0n36 | 0s41 | 0s41 | 8n21 | 0n19 | 8s55 | 1s10 | 10s 5 | 2s 5 | 22n30 | 0n 9 | 22n42 | 0s49 | 15n30 | 5s35 | 23n 2 | 23n 9 | 21n41 | | n.a. |

Julian Day Number = 1697347.5, Delta T = 03h07m22s
Ecliptic obliquity = 23°42'09, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°58'27, Lahiri = - 4°51'26 Julian Calendar 1 Feb. 66 BCE == Greg. Calendar 30 Jan. 066 BCE

The year -65 astronomical counting style corresponds to year 066 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 66 BCE
# geocentric

## MARCH 66 BCE (-65) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 10 22 9 | 7♓32'31 | 9♊ 5 | 13♒ 0 | 1♈ 5 | 21♈ 5 | 10♓26 | 9♓27 | 11♊10 | 22°R55 | 2♊54 | 13°D16 | 12♋ 1 | 1♌52 | n.a. | W 1 |
| T 2 | 10 26 5 | 8°31'40 | 21°15 | 13°22 | 2°19 | 21°45 | 10°40 | 9°35 | 11°10 | 22♊55 | 2°54 | 13♋17 | 11°57 | 1°59 | n.a. | T 2 |
| F 3 | 10 30 2 | 9°30'47 | 3♋11 | 13°49 | 3°32 | 22°26 | 10°55 | 9°42 | 11°11 | 22°54 | 2°55 | 13°18 | 11°54 | 2° 6 | n.a. | F 3 |
| S 4 | 10 33 58 | 10°29'51 | 15° 0 | 14°20 | 4°46 | 23° 6 | 11° 9 | 9°50 | 11°11 | 22°54 | 2°55 | 13°R18 | 11°51 | 2°12 | n.a. | S 4 |
| S 5 | 10 37 55 | 11°28'53 | 26°47 | 14°55 | 5°59 | 23°46 | 11°24 | 9°57 | 11°12 | 22°54 | 2°55 | 13°17 | 11°48 | 2°19 | n.a. | S 5 |
| M 6 | 10 41 52 | 12°27'53 | 8♌35 | 15°34 | 7°12 | 24°27 | 11°38 | 10° 5 | 11°13 | 22°54 | 2°56 | 13°14 | 11°45 | 2°25 | n.a. | M 6 |
| T 7 | 10 45 48 | 13°26'51 | 20°28 | 16°17 | 8°26 | 25° 7 | 11°53 | 10°13 | 11°13 | 22°D54 | 2°56 | 13° 8 | 11°42 | 2°32 | n.a. | T 7 |
| W 8 | 10 49 45 | 14°25'46 | 2♍29 | 17° 4 | 9°39 | 25°47 | 12° 7 | 10°20 | 11°14 | 22°54 | 2°56 | 13° 0 | 11°38 | 2°39 | n.a. | W 8 |
| T 9 | 10 53 41 | 15°24'39 | 14°39 | 17°54 | 10°52 | 26°27 | 12°22 | 10°28 | 11°15 | 22°54 | 2°57 | 12°50 | 11°35 | 2°45 | n.a. | T 9 |
| F 10 | 10 57 38 | 16°23'30 | 27° 0 | 18°47 | 12° 5 | 27° 8 | 12°36 | 10°35 | 11°16 | 22°54 | 2°57 | 12°38 | 11°32 | 2°52 | n.a. | F 10 |
| S 11 | 11 1 34 | 17°22'19 | 9♎32 | 19°43 | 13°18 | 27°48 | 12°50 | 10°43 | 11°17 | 22°54 | 2°58 | 12°26 | 11°29 | 2°59 | n.a. | S 11 |
| S 12 | 11 5 31 | 18°21'06 | 22°15 | 20°42 | 14°32 | 28°28 | 13° 5 | 10°50 | 11°18 | 22°55 | 2°58 | 12°15 | 11°26 | 3° 5 | n.a. | S 12 |
| M13 | 11 9 27 | 19°19'51 | 5♏11 | 21°44 | 15°45 | 29° 8 | 13°19 | 10°58 | 11°19 | 22°55 | 2°59 | 12° 6 | 11°23 | 3°12 | n.a. | M13 |
| T 14 | 11 13 24 | 20°18'34 | 18°18 | 22°48 | 16°58 | 29°48 | 13°34 | 11° 6 | 11°20 | 22°55 | 2°59 | 12° 0 | 11°19 | 3°19 | n.a. | T 14 |
| W15 | 11 17 20 | 21°17'15 | 1♐39 | 23°55 | 18°10 | 0♉28 | 13°48 | 11°13 | 11°21 | 22°55 | 3° 0 | 11°56 | 11°16 | 3°25 | n.a. | W15 |
| T 16 | 11 21 17 | 22°15'55 | 15°13 | 25° 5 | 19°23 | 1° 8 | 14° 2 | 11°21 | 11°23 | 22°56 | 3° 0 | 11°55 | 11°13 | 3°32 | n.a. | T 16 |
| F 17 | 11 25 14 | 23°14'33 | 29° 3 | 26°17 | 20°36 | 1°48 | 14°17 | 11°28 | 11°24 | 22°56 | 3° 1 | 11°D54 | 11°10 | 3°39 | n.a. | F 17 |
| S 18 | 11 29 10 | 24°13'09 | 13♑ 8 | 27°31 | 21°49 | 2°28 | 14°31 | 11°36 | 11°25 | 22°56 | 3° 2 | 11°R55 | 11° 7 | 3°45 | n.a. | S 18 |
| S 19 | 11 33 7 | 25°11'44 | 27°29 | 28°47 | 23° 2 | 3° 8 | 14°46 | 11°43 | 11°27 | 22°57 | 3° 2 | 11°54 | 11° 3 | 3°52 | n.a. | S 19 |
| M20 | 11 37 3 | 26°10'17 | 12♒ 3 | 0♓ 5 | 24°15 | 3°48 | 15° 0 | 11°50 | 11°28 | 22°57 | 3° 3 | 11°51 | 11° 0 | 3°59 | n.a. | M20 |
| T 21 | 11 41 0 | 27° 8'48 | 26°46 | 1°26 | 25°27 | 4°28 | 15°14 | 11°58 | 11°29 | 22°57 | 3° 4 | 11°46 | 10°57 | 4° 5 | n.a. | T 21 |
| W22 | 11 44 56 | 28° 7'17 | 11♓32 | 2°48 | 26°40 | 5° 8 | 15°28 | 12° 5 | 11°31 | 22°58 | 3° 4 | 11°37 | 10°54 | 4°12 | n.a. | W22 |
| T 23 | 11 48 53 | 29° 5'44 | 26°13 | 4°13 | 27°52 | 5°47 | 15°43 | 12°13 | 11°33 | 22°58 | 3° 5 | 11°27 | 10°51 | 4°19 | n.a. | T 23 |
| F 24 | 11 52 49 | 0♈ 4'09 | 10♈41 | 5°39 | 29° 5 | 6°27 | 15°57 | 12°20 | 11°34 | 22°59 | 3° 6 | 11°15 | 10°48 | 4°25 | n.a. | F 24 |
| S 25 | 11 56 46 | 1° 2'32 | 24°49 | 7° 7 | 0♉17 | 7° 7 | 16°11 | 12°27 | 11°36 | 23° 0 | 3° 7 | 11° 4 | 10°44 | 4°32 | n.a. | S 25 |
| S 26 | 12 0 43 | 2° 0'53 | 8♉33 | 8°37 | 1°30 | 7°47 | 16°25 | 12°35 | 11°38 | 23° 0 | 3° 7 | 10°54 | 10°41 | 4°39 | n.a. | S 26 |
| M27 | 12 4 39 | 2°59'13 | 21°51 | 10° 9 | 2°42 | 8°26 | 16°39 | 12°42 | 11°39 | 23° 1 | 3° 8 | 10°47 | 10°38 | 4°45 | n.a. | M27 |
| T 28 | 12 8 36 | 3°57'30 | 4♊44 | 11°42 | 3°54 | 9° 6 | 16°54 | 12°49 | 11°41 | 23° 2 | 3° 9 | 10°41 | 10°35 | 4°52 | n.a. | T 28 |
| W29 | 12 12 32 | 4°55'45 | 17°13 | 13°18 | 5° 7 | 9°46 | 17° 8 | 12°57 | 11°43 | 23° 2 | 3°10 | 10°39 | 10°32 | 4°59 | n.a. | W29 |
| T 30 | 12 16 29 | 5°53'57 | 29°25 | 14°55 | 6°19 | 10°25 | 17°22 | 13° 4 | 11°45 | 23° 3 | 3°11 | 10°38 | 10°28 | 5° 5 | n.a. | T 30 |
| F 31 | 12 20 25 | 6♈52'08 | 11♋23 | 16♓34 | 7♉31 | 11♉ 5 | 17♓36 | 13♓11 | 11♊47 | 23♊ 4 | 3♊11 | 10♋38 | 10♋25 | 5♌12 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| W 1 | 8s50 | 19n12 | 2s53 | 16s44 | 0n22 | 0s 9 | 0s38 | 8n37 | 0n20 | 8s49 | 1s10 | 10s 2 | 2s 5 | 22n30 | 0n 9 | 22n42 | 0s49 | 15n30 | 5s35 | 23n 2 | 23n 9 | 21n40 | | | n.a. |
| T 2 | 8 28 | 21 29 | 1 56 | 16 51 | 0 9 | 0n23 | 0 36 | 8 53 | 0 20 | 8 43 | 1 10 | 9 59 | 2 5 | 22 30 | 0 9 | 22 42 | 0 49 | 15 30 | 5 34 | 23 2 | 23 9 | 21 39 | | | n.a. |
| F 3 | 8 5 | 22 46 | 0 54 | 16 55 | 0s 4 | 0 54 | 0 34 | 9 9 | 0 21 | 8 38 | 1 10 | 9 56 | 2 5 | 22 30 | 0 9 | 22 42 | 0 49 | 15 30 | 5 34 | 23 2 | 23 10 | 21 39 | | | n.a. |
| S 4 | 7 43 | 23 0 | 0n 9 | 16 58 | 0 16 | 1 26 | 0 31 | 9 24 | 0 21 | 8 32 | 1 10 | 9 53 | 2 5 | 22 30 | 0 9 | 22 42 | 0 49 | 15 30 | 5 34 | 23 2 | 23 10 | 21 38 | | | n.a. |
| S 5 | 7 20 | 22 12 | 1 12 | 16 59 | 0 28 | 1 58 | 0 29 | 9 40 | 0 22 | 8 27 | 1 10 | 9 51 | 2 5 | 22 30 | 0 9 | 22 42 | 0 49 | 15 31 | 5 34 | 23 2 | 23 10 | 21 37 | | | n.a. |
| M 6 | 6 57 | 20 25 | 2 11 | 16 58 | 0 39 | 2 30 | 0 26 | 9 56 | 0 23 | 8 21 | 1 10 | 9 48 | 2 5 | 22 31 | 0 9 | 22 42 | 0 49 | 15 31 | 5 34 | 23 2 | 23 11 | 21 36 | | | n.a. |
| T 7 | 6 35 | 17 45 | 3 5 | 16 56 | 0 50 | 3 1 | 0 23 | 10 11 | 0 23 | 8 16 | 1 10 | 9 45 | 2 5 | 22 31 | 0 9 | 22 42 | 0 49 | 15 31 | 5 34 | 23 3 | 23 11 | 21 36 | | | n.a. |
| W 8 | 6 12 | 14 18 | 3 51 | 16 51 | 1 1 | 3 33 | 0 21 | 10 26 | 0 24 | 8 10 | 1 10 | 9 42 | 2 5 | 22 31 | 0 9 | 22 42 | 0 49 | 15 31 | 5 33 | 23 4 | 23 11 | 21 35 | | | n.a. |
| T 9 | 5 49 | 10 13 | 4 28 | 16 45 | 1 10 | 4 4 | 0 18 | 10 42 | 0 25 | 8 5 | 1 10 | 9 39 | 2 5 | 22 31 | 0 9 | 22 42 | 0 49 | 15 32 | 5 33 | 23 5 | 23 11 | 21 34 | | | n.a. |
| F 10 | 5 26 | 5 40 | 4 52 | 16 37 | 1 20 | 4 36 | 0 15 | 10 57 | 0 25 | 7 59 | 1 10 | 9 36 | 2 5 | 22 31 | 0 9 | 22 42 | 0 49 | 15 32 | 5 33 | 23 6 | 23 12 | 21 33 | | | n.a. |
| S 11 | 5 3 | 0 49 | 5 3 | 16 28 | 1 28 | 5 7 | 0 13 | 11 12 | 0 26 | 7 53 | 1 10 | 9 33 | 2 5 | 22 31 | 0 9 | 22 42 | 0 49 | 15 32 | 5 33 | 23 7 | 23 12 | 21 33 | | | n.a. |
| S 12 | 4 39 | 4s 9 | 4 58 | 16 16 | 1 36 | 5 38 | 0 10 | 11 27 | 0 26 | 7 48 | 1 10 | 9 31 | 2 5 | 22 31 | 0 9 | 22 42 | 0 49 | 15 33 | 5 33 | 23 8 | 23 12 | 21 32 | | | n.a. |
| M13 | 4 16 | 9 1 | 4 39 | 16 3 | 1 44 | 6 9 | 0 7 | 11 42 | 0 27 | 7 42 | 1 10 | 9 28 | 2 5 | 22 31 | 0 9 | 22 42 | 0 49 | 15 33 | 5 32 | 23 9 | 23 13 | 21 31 | | | n.a. |
| T 14 | 3 53 | 13 33 | 4 5 | 15 49 | 1 51 | 6 40 | 0 4 | 11 57 | 0 27 | 7 37 | 1 10 | 9 25 | 2 5 | 22 32 | 0 9 | 22 42 | 0 48 | 15 33 | 5 32 | 23 9 | 23 13 | 21 30 | | | n.a. |
| W15 | 3 29 | 17 30 | 3 17 | 15 32 | 1 58 | 7 11 | 0 2 | 12 12 | 0 28 | 7 31 | 1 10 | 9 22 | 2 6 | 22 32 | 0 9 | 22 42 | 0 48 | 15 33 | 5 32 | 23 10 | 23 13 | 21 30 | | | n.a. |
| T 16 | 3 6 | 20 36 | 2 17 | 15 14 | 2 3 | 7 41 | 0n 1 | 12 27 | 0 29 | 7 26 | 1 10 | 9 19 | 2 6 | 22 32 | 0 9 | 22 42 | 0 48 | 15 34 | 5 32 | 23 10 | 23 13 | 21 29 | | | n.a. |
| F 17 | 2 43 | 22 34 | 1 8 | 14 55 | 2 9 | 8 12 | 0 4 | 12 41 | 0 29 | 7 20 | 1 10 | 9 16 | 2 6 | 22 32 | 0 9 | 22 42 | 0 48 | 15 34 | 5 32 | 23 10 | 23 14 | 21 28 | | | n.a. |
| S 18 | 2 19 | 23 9 | 0s 7 | 14 33 | 2 14 | 8 42 | 0 7 | 12 56 | 0 30 | 7 14 | 1 10 | 9 14 | 2 6 | 22 32 | 0 9 | 22 42 | 0 48 | 15 34 | 5 32 | 23 10 | 23 14 | 21 27 | | | n.a. |
| S 19 | 1 56 | 22 14 | 1 22 | 14 11 | 2 18 | 9 12 | 0 10 | 13 10 | 0 30 | 7 9 | 1 11 | 9 11 | 2 6 | 22 33 | 0 9 | 22 43 | 0 48 | 15 34 | 5 31 | 23 10 | 23 14 | 21 26 | | | n.a. |
| M20 | 1 32 | 19 48 | 2 33 | 13 46 | 2 22 | 9 42 | 0 13 | 13 24 | 0 31 | 7 3 | 1 11 | 9 8 | 2 6 | 22 33 | 0 9 | 22 43 | 0 48 | 15 35 | 5 31 | 23 10 | 23 14 | 21 26 | | | n.a. |
| T 21 | 1 9 | 16 4 | 3 34 | 13 20 | 2 25 | 10 11 | 0 16 | 13 38 | 0 31 | 6 58 | 1 11 | 9 5 | 2 6 | 22 33 | 0 9 | 22 43 | 0 48 | 15 35 | 5 31 | 23 11 | 23 15 | 21 25 | | | n.a. |
| W22 | 0 45 | 11 20 | 4 21 | 12 53 | 2 28 | 10 41 | 0 19 | 13 52 | 0 32 | 6 52 | 1 11 | 9 2 | 2 6 | 22 33 | 0 9 | 22 43 | 0 48 | 15 35 | 5 31 | 23 11 | 23 15 | 21 24 | | | n.a. |
| T 23 | 0 22 | 5 57 | 4 51 | 12 24 | 2 30 | 11 10 | 0 21 | 14 6 | 0 32 | 6 47 | 1 11 | 9 0 | 2 6 | 22 33 | 0 9 | 22 43 | 0 48 | 15 36 | 5 31 | 23 12 | 23 15 | 21 23 | | | n.a. |
| F 24 | 0n 2 | 0 20 | 5 1 | 11 53 | 2 31 | 11 39 | 0 24 | 14 20 | 0 33 | 6 41 | 1 11 | 8 57 | 2 6 | 22 34 | 0 9 | 22 43 | 0 48 | 15 36 | 5 31 | 23 13 | 23 16 | 21 22 | | | n.a. |
| S 25 | 0 25 | 5n11 | 4 53 | 11 21 | 2 32 | 12 7 | 0 27 | 14 34 | 0 33 | 6 36 | 1 11 | 8 54 | 2 6 | 22 34 | 0 9 | 22 43 | 0 48 | 15 36 | 5 30 | 23 14 | 23 16 | 21 21 | | | n.a. |
| S 26 | 0 49 | 10 18 | 4 27 | 10 47 | 2 33 | 12 36 | 0 30 | 14 48 | 0 34 | 6 30 | 1 11 | 8 51 | 2 6 | 22 34 | 0 9 | 22 43 | 0 48 | 15 37 | 5 30 | 23 15 | 23 16 | 21 21 | | | n.a. |
| M27 | 1 12 | 14 46 | 3 48 | 10 12 | 2 33 | 13 4 | 0 33 | 15 1 | 0 34 | 6 25 | 1 11 | 8 49 | 2 7 | 22 34 | 0 9 | 22 43 | 0 48 | 15 37 | 5 30 | 23 16 | 23 16 | 21 20 | | | n.a. |
| T 28 | 1 35 | 18 24 | 2 58 | 9 35 | 2 32 | 13 31 | 0 36 | 15 14 | 0 35 | 6 19 | 1 11 | 8 46 | 2 7 | 22 35 | 0 9 | 22 43 | 0 48 | 15 37 | 5 30 | 23 16 | 23 17 | 21 19 | | | n.a. |
| W29 | 1 59 | 21 5 | 2 1 | 8 57 | 2 31 | 13 59 | 0 39 | 15 28 | 0 36 | 6 14 | 1 11 | 8 43 | 2 7 | 22 35 | 0 9 | 22 43 | 0 48 | 15 37 | 5 30 | 23 16 | 23 17 | 21 18 | | | n.a. |
| T 30 | 2 22 | 22 43 | 0 59 | 8 18 | 2 29 | 14 26 | 0 42 | 15 41 | 0 36 | 6 8 | 1 11 | 8 40 | 2 7 | 22 35 | 0 9 | 22 43 | 0 48 | 15 38 | 5 30 | 23 16 | 23 17 | 21 17 | | | n.a. |
| F 31 | 2n45 | 23n17 | 0n 4 | 7s37 | 2s27 | 14n53 | 0n45 | 15n54 | 0n37 | 6s 3 | 1s11 | 8s38 | 2s 7 | 22n35 | 0n 9 | 22n43 | 0s48 | 15n38 | 5s29 | 23n16 | 23n17 | 21n16 | | | n.a. |

Julian Day Number = 1697375.5, Delta T = 03h07m21s
Ecliptic obliquity = 23°42'09, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°58'23, Lahiri = - 4°51'22 Julian Calendar 1 March 66 BCE == Greg. Calendar 27 Feb. 066 BCE

The year -65 astronomical counting style corresponds to year 066 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 66 BCE
# geocentric

## APRIL 66 BCE (-65) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 24 22 | 7♈50'17 | 23♋13 | 18♓15 | 8♉43 | 11♉45 | 17♓50 | 13♓18 | 11♊49 | 23♊ 5 | 3♊12 | 10°R37 | 10♋22 | 5♌19 | n.a. | S 1 |
| S 2 | 12 28 18 | 8°48'24 | 5♌ 1 | 19°58 | 9°55 | 12°24 | 18° 4 | 13°25 | 11°51 | 23° 5 | 3°13 | 10♋36 | 10°19 | 5°25 | n.a. | S 2 |
| M 3 | 12 32 15 | 9°46'28 | 16°51 | 21°42 | 11° 7 | 13° 4 | 18°18 | 13°32 | 11°53 | 23° 6 | 3°14 | 10°32 | 10°16 | 5°32 | n.a. | M 3 |
| T 4 | 12 36 12 | 10°44'31 | 28°49 | 23°28 | 12°19 | 13°43 | 18°32 | 13°39 | 11°55 | 23° 7 | 3°15 | 10°25 | 10°13 | 5°39 | n.a. | T 4 |
| W 5 | 12 40 8 | 11°42'31 | 10♍57 | 25°17 | 13°30 | 14°23 | 18°45 | 13°46 | 11°57 | 23° 8 | 3°16 | 10°16 | 10° 9 | 5°45 | n.a. | W 5 |
| T 6 | 12 44 5 | 12°40'30 | 23°18 | 27° 6 | 14°42 | 15° 2 | 18°59 | 13°53 | 11°59 | 23° 9 | 3°17 | 10° 5 | 10° 6 | 5°52 | n.a. | T 6 |
| F 7 | 12 48 1 | 13°38'27 | 5♎54 | 28°58 | 15°54 | 15°42 | 19°13 | 14° 0 | 12° 2 | 23°10 | 3°18 | 9°52 | 10° 3 | 5°58 | n.a. | F 7 |
| S 8 | 12 51 58 | 14°36'22 | 18°44 | 0♈52 | 17° 5 | 16°21 | 19°27 | 14° 7 | 12° 4 | 23°11 | 3°19 | 9°39 | 10° 0 | 6° 5 | n.a. | S 8 |
| S 9 | 12 55 54 | 15°34'16 | 1♏48 | 2°47 | 18°17 | 17° 0 | 19°40 | 14°14 | 12° 6 | 23°12 | 3°20 | 9°27 | 9°57 | 6°12 | n.a. | S 9 |
| M10 | 12 59 51 | 16°32'08 | 15° 4 | 4°44 | 19°28 | 17°40 | 19°54 | 14°21 | 12° 8 | 23°13 | 3°21 | 9°17 | 9°54 | 6°18 | n.a. | M10 |
| T 11 | 13 3 47 | 17°29'58 | 28°32 | 6°43 | 20°40 | 18°19 | 20° 8 | 14°28 | 12°11 | 23°14 | 3°22 | 9° 9 | 9°50 | 6°25 | n.a. | T 11 |
| W12 | 13 7 44 | 18°27'47 | 12♐ 9 | 8°44 | 21°51 | 18°58 | 20°21 | 14°35 | 12°13 | 23°15 | 3°23 | 9° 5 | 9°47 | 6°32 | n.a. | W12 |
| T 13 | 13 11 40 | 19°25'35 | 25°55 | 10°46 | 23° 2 | 19°38 | 20°35 | 14°41 | 12°16 | 23°17 | 3°24 | 9° 3 | 9°44 | 6°38 | n.a. | T 13 |
| F 14 | 13 15 37 | 20°23'22 | 9♑49 | 12°50 | 24°14 | 20°17 | 20°48 | 14°48 | 12°18 | 23°18 | 3°25 | 9°D 2 | 9°41 | 6°45 | n.a. | F 14 |
| S 15 | 13 19 34 | 21°21'08 | 23°52 | 14°55 | 25°25 | 20°56 | 21° 2 | 14°55 | 12°21 | 23°19 | 3°27 | 9°R 2 | 9°38 | 6°52 | n.a. | S 15 |
| S 16 | 13 23 30 | 22°18'52 | 8♒ 2 | 17° 2 | 26°36 | 21°35 | 21°15 | 15° 1 | 12°23 | 23°20 | 3°28 | 9° 2 | 9°34 | 6°58 | n.a. | S 16 |
| M17 | 13 27 27 | 23°16'35 | 22°18 | 19°10 | 27°47 | 22°15 | 21°28 | 15° 8 | 12°26 | 23°22 | 3°29 | 8°59 | 9°31 | 7° 5 | n.a. | M17 |
| T 18 | 13 31 23 | 24°14'17 | 6♓39 | 21°19 | 28°58 | 22°54 | 21°42 | 15°14 | 12°29 | 23°23 | 3°30 | 8°54 | 9°28 | 7°12 | n.a. | T 18 |
| W19 | 13 35 20 | 25°11'58 | 20°59 | 23°29 | 0♊ 9 | 23°33 | 21°55 | 15°21 | 12°31 | 23°24 | 3°31 | 8°46 | 9°25 | 7°18 | n.a. | W19 |
| T 20 | 13 39 16 | 26° 9'37 | 5♈15 | 25°40 | 1°19 | 24°12 | 22° 8 | 15°27 | 12°34 | 23°26 | 3°32 | 8°36 | 9°22 | 7°25 | n.a. | T 20 |
| F 21 | 13 43 13 | 27° 7'15 | 19°20 | 27°51 | 2°30 | 24°51 | 22°21 | 15°34 | 12°37 | 23°27 | 3°34 | 8°25 | 9°19 | 7°32 | n.a. | F 21 |
| S 22 | 13 47 9 | 28° 4'52 | 3♉11 | 0♉ 2 | 3°41 | 25°30 | 22°34 | 15°40 | 12°40 | 23°28 | 3°35 | 8°14 | 9°15 | 7°38 | n.a. | S 22 |
| S 23 | 13 51 6 | 29° 2'28 | 16°41 | 2°14 | 4°51 | 26° 9 | 22°47 | 15°46 | 12°42 | 23°30 | 3°36 | 8° 5 | 9°12 | 7°45 | n.a. | S 23 |
| M24 | 13 55 3 | 0♉ 0'02 | 29°51 | 4°24 | 6° 2 | 26°48 | 23° 0 | 15°52 | 12°45 | 23°31 | 3°37 | 7°57 | 9° 9 | 7°52 | n.a. | M24 |
| T 25 | 13 58 59 | 0°57'35 | 12♊39 | 6°35 | 7°12 | 27°27 | 23°13 | 15°58 | 12°48 | 23°33 | 3°39 | 7°52 | 9° 6 | 7°58 | n.a. | T 25 |
| W26 | 14 2 56 | 1°55'06 | 25° 7 | 8°44 | 8°22 | 28° 6 | 23°26 | 16° 5 | 12°51 | 23°34 | 3°40 | 7°49 | 9° 3 | 8° 5 | n.a. | W26 |
| T 27 | 14 6 52 | 2°52'37 | 7♋18 | 10°52 | 9°33 | 28°45 | 23°39 | 16°11 | 12°54 | 23°36 | 3°41 | 7°D48 | 8°59 | 8°12 | n.a. | T 27 |
| F 28 | 14 10 49 | 3°50'05 | 19°17 | 12°59 | 10°43 | 29°24 | 23°51 | 16°17 | 12°57 | 23°37 | 3°42 | 7°49 | 8°56 | 8°18 | n.a. | F 28 |
| S 29 | 14 14 45 | 4°47'32 | 1♌ 9 | 15° 4 | 11°53 | 0♊ 3 | 24° 4 | 16°22 | 13° 0 | 23°39 | 3°44 | 7°R49 | 8°53 | 8°25 | n.a. | S 29 |
| S 30 | 14 18 42 | 5♉44'58 | 12♌58 | 17♉ 7 | 13♊ 3 | 0♊42 | 24♓16 | 16♓28 | 13♊ 3 | 23♊40 | 3♊45 | 7♋49 | 8♋50 | 8♌32 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 3n 9 | 22n46 | 1n 6 | 6s54 | 2s24 | 15n19 | 0n48 | 16n 7 | 0n37 | 5s57 | 1s11 | 8s35 | 2s 7 | 22n36 | 0n 9 | 22n43 | 0s48 | 15n38 | 5s29 | 23n16 | 23n18 | 21n15 | | n.a. |
| S 2 | 3 32 | 21 15 | 2 5 | 6 10 | 2 21 | 15 45 | 0 51 | 16 19 | 0 37 | 5 52 | 1 11 | 8 32 | 2 7 | 22 36 | 0 9 | 22 44 | 0 48 | 15 39 | 5 29 | 23 16 | 23 18 | 21 15 | | n.a. |
| M 3 | 3 55 | 18 48 | 2 59 | 5 25 | 2 17 | 16 11 | 0 54 | 16 32 | 0 38 | 5 46 | 1 11 | 8 30 | 2 7 | 22 36 | 0 9 | 22 44 | 0 48 | 15 39 | 5 29 | 23 17 | 23 18 | 21 14 | | n.a. |
| T 4 | 4 18 | 15 32 | 3 46 | 4 39 | 2 13 | 16 36 | 0 56 | 16 45 | 0 38 | 5 41 | 1 11 | 8 27 | 2 7 | 22 36 | 0 9 | 22 44 | 0 48 | 15 39 | 5 29 | 23 17 | 23 18 | 21 13 | | n.a. |
| W 5 | 4 41 | 11 34 | 4 22 | 3 51 | 2 8 | 17 1 | 0 59 | 16 57 | 0 39 | 5 35 | 1 12 | 8 24 | 2 8 | 22 37 | 0 9 | 22 44 | 0 48 | 15 40 | 5 29 | 23 18 | 23 19 | 21 12 | | n.a. |
| T 6 | 5 4 | 7 5 | 4 48 | 3 2 | 2 2 | 17 25 | 1 2 | 17 9 | 0 39 | 5 30 | 1 12 | 8 22 | 2 8 | 22 37 | 0 9 | 22 44 | 0 48 | 15 40 | 5 29 | 23 19 | 23 19 | 21 11 | | n.a. |
| F 7 | 5 26 | 2 12 | 4 59 | 2 11 | 1 56 | 17 49 | 1 5 | 17 21 | 0 40 | 5 25 | 1 12 | 8 19 | 2 8 | 22 37 | 0 9 | 22 44 | 0 48 | 15 40 | 5 28 | 23 20 | 23 19 | 21 10 | | n.a. |
| S 8 | 5 49 | 2s51 | 4 57 | 1 20 | 1 50 | 18 12 | 1 8 | 17 33 | 0 40 | 5 19 | 1 12 | 8 17 | 2 8 | 22 38 | 0 9 | 22 44 | 0 48 | 15 41 | 5 28 | 23 21 | 23 19 | 21 9 | | n.a. |
| S 9 | 6 12 | 7 53 | 4 38 | 0 27 | 1 43 | 18 35 | 1 10 | 17 45 | 0 41 | 5 14 | 1 12 | 8 14 | 2 8 | 22 38 | 0 9 | 22 44 | 0 47 | 15 41 | 5 28 | 23 22 | 23 20 | 21 8 | | n.a. |
| M10 | 6 34 | 12 38 | 4 4 | 0n27 | 1 35 | 18 58 | 1 13 | 17 57 | 0 41 | 5 9 | 1 12 | 8 12 | 2 8 | 22 38 | 0 9 | 22 44 | 0 47 | 15 41 | 5 28 | 23 22 | 23 20 | 21 7 | | n.a. |
| T 11 | 6 57 | 16 51 | 3 17 | 1 22 | 1 27 | 19 20 | 1 16 | 18 8 | 0 42 | 5 3 | 1 12 | 8 9 | 2 8 | 22 39 | 0 9 | 22 44 | 0 47 | 15 42 | 5 28 | 23 23 | 23 20 | 21 6 | | n.a. |
| W12 | 7 19 | 20 14 | 2 17 | 2 18 | 1 19 | 19 42 | 1 19 | 18 20 | 0 42 | 4 58 | 1 12 | 8 7 | 2 9 | 22 39 | 0 9 | 22 44 | 0 47 | 15 42 | 5 28 | 23 23 | 23 20 | 21 5 | | n.a. |
| T 13 | 7 41 | 22 29 | 1 9 | 3 14 | 1 10 | 20 3 | 1 21 | 18 31 | 0 43 | 4 53 | 1 12 | 8 4 | 2 9 | 22 39 | 0 9 | 22 45 | 0 47 | 15 42 | 5 28 | 23 23 | 23 20 | 21 4 | | n.a. |
| F 14 | 8 3 | 23 24 | 0s 4 | 4 12 | 1 1 | 20 23 | 1 24 | 18 42 | 0 43 | 4 47 | 1 12 | 8 2 | 2 9 | 22 40 | 0 9 | 22 45 | 0 47 | 15 43 | 5 27 | 23 23 | 23 21 | 21 3 | | n.a. |
| S 15 | 8 25 | 22 51 | 1 18 | 5 9 | 0 51 | 20 43 | 1 26 | 18 53 | 0 43 | 4 42 | 1 12 | 7 59 | 2 9 | 22 40 | 0 9 | 22 45 | 0 47 | 15 43 | 5 27 | 23 23 | 23 21 | 21 3 | | n.a. |
| S 16 | 8 47 | 20 50 | 2 27 | 6 8 | 0 41 | 21 3 | 1 29 | 19 4 | 0 44 | 4 37 | 1 13 | 7 57 | 2 9 | 22 40 | 0 9 | 22 45 | 0 47 | 15 43 | 5 27 | 23 23 | 23 21 | 21 2 | | n.a. |
| M17 | 9 8 | 17 30 | 3 28 | 7 6 | 0 31 | 21 22 | 1 31 | 19 15 | 0 44 | 4 32 | 1 13 | 7 54 | 2 9 | 22 41 | 0 9 | 22 45 | 0 47 | 15 44 | 5 27 | 23 24 | 23 21 | 21 1 | | n.a. |
| T 18 | 9 30 | 13 7 | 4 16 | 8 5 | 0 21 | 21 40 | 1 34 | 19 25 | 0 45 | 4 26 | 1 13 | 7 52 | 2 9 | 22 41 | 0 9 | 22 45 | 0 47 | 15 44 | 5 27 | 23 24 | 23 22 | 21 0 | | n.a. |
| W19 | 9 51 | 8 0 | 4 48 | 9 4 | 0 10 | 21 58 | 1 36 | 19 36 | 0 45 | 4 21 | 1 13 | 7 49 | 2 10 | 22 41 | 0 9 | 22 45 | 0 47 | 15 44 | 5 27 | 23 25 | 23 22 | 20 59 | | n.a. |
| T 20 | 10 13 | 2 30 | 5 1 | 10 2 | 0n 0 | 22 15 | 1 38 | 19 46 | 0 45 | 4 16 | 1 13 | 7 47 | 2 10 | 22 42 | 0 9 | 22 45 | 0 47 | 15 45 | 5 27 | 23 25 | 23 22 | 20 58 | | n.a. |
| F 21 | 10 34 | 3n 5 | 4 56 | 11 0 | 0 11 | 22 32 | 1 41 | 19 56 | 0 46 | 4 11 | 1 13 | 7 45 | 2 10 | 22 42 | 0 9 | 22 45 | 0 47 | 15 45 | 5 27 | 23 26 | 23 22 | 20 57 | | n.a. |
| S 22 | 10 54 | 8 25 | 4 34 | 11 56 | 0 21 | 22 48 | 1 43 | 20 6 | 0 46 | 4 6 | 1 13 | 7 42 | 2 10 | 22 42 | 0 9 | 22 45 | 0 47 | 15 45 | 5 26 | 23 27 | 23 23 | 20 56 | | n.a. |
| S 23 | 11 15 | 13 14 | 3 57 | 12 52 | 0 32 | 23 4 | 1 45 | 20 16 | 0 47 | 4 1 | 1 13 | 7 40 | 2 10 | 22 43 | 0 9 | 22 46 | 0 47 | 15 46 | 5 26 | 23 27 | 23 23 | 20 55 | | n.a. |
| M24 | 11 36 | 17 17 | 3 7 | 13 47 | 0 42 | 23 19 | 1 47 | 20 25 | 0 47 | 3 56 | 1 14 | 7 38 | 2 10 | 22 43 | 0 9 | 22 46 | 0 47 | 15 46 | 5 26 | 23 28 | 23 23 | 20 54 | | n.a. |
| T 25 | 11 56 | 20 25 | 2 10 | 14 40 | 0 52 | 23 33 | 1 49 | 20 35 | 0 47 | 3 51 | 1 14 | 7 36 | 2 11 | 22 44 | 0 9 | 22 46 | 0 47 | 15 47 | 5 26 | 23 28 | 23 23 | 20 53 | | n.a. |
| W26 | 12 16 | 22 30 | 1 7 | 15 32 | 1 1 | 23 46 | 1 51 | 20 44 | 0 48 | 3 46 | 1 14 | 7 33 | 2 11 | 22 44 | 0 9 | 22 46 | 0 47 | 15 47 | 5 26 | 23 28 | 23 23 | 20 52 | | n.a. |
| T 27 | 12 36 | 23 27 | 0 3 | 16 22 | 1 11 | 23 59 | 1 53 | 20 53 | 0 48 | 3 41 | 1 14 | 7 31 | 2 11 | 22 44 | 0 9 | 22 46 | 0 47 | 15 47 | 5 26 | 23 28 | 23 24 | 20 51 | | n.a. |
| F 28 | 12 56 | 23 18 | 1n 1 | 17 10 | 1 19 | 24 12 | 1 55 | 21 2 | 0 49 | 3 36 | 1 14 | 7 29 | 2 11 | 22 45 | 0 9 | 22 46 | 0 47 | 15 48 | 5 26 | 23 28 | 23 24 | 20 50 | | n.a. |
| S 29 | 13 16 | 22 6 | 2 1 | 17 55 | 1 27 | 24 23 | 1 57 | 21 11 | 0 49 | 3 31 | 1 14 | 7 27 | 2 11 | 22 45 | 0 9 | 22 46 | 0 47 | 15 48 | 5 26 | 23 28 | 23 24 | 20 49 | | n.a. |
| S 30 | 13n35 | 19n55 | 2n56 | 18n39 | 1n35 | 24n34 | 1n59 | 21n20 | 0n49 | 3s26 | 1s14 | 7s25 | 2s12 | 22n45 | 0n 9 | 22n46 | 0s47 | 15n48 | 5s25 | 23n28 | 23n24 | 20n47 | | n.a. |

Julian Day Number = 1697406.5, Delta T = 03h07m20s
Ecliptic obliquity = 23°42'10, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°58'18, Lahiri = - 4°51'18 Julian Calendar 1 Apr. 66 BCE == Greg. Calendar 30 March 066 BCE

The year -65 astronomical counting style corresponds to year 066 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 66 BCE
# geocentric

## MAY 66 BCE (-65) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 14 22 38 | 6♉42'23 | 24♌51 | 19♉ 8 | 14♊13 | 1♊21 | 24♓29 | 16♓34 | 13♊ 6 | 23♊42 | 3♊46 | 7°R47 | 8♋47 | 8♌38 | n.a. | M 1 |
| T 2 | 14 26 35 | 7°39'46 | 6♍52 | 21° 7 | 15°22 | 2° 0 | 24°41 | 16°40 | 13° 9 | 23°44 | 3°48 | 7♋43 | 8°44 | 8°45 | n.a. | T 2 |
| W 3 | 14 30 32 | 8°37'08 | 19° 5 | 23° 4 | 16°32 | 2°39 | 24°53 | 16°45 | 13°12 | 23°45 | 3°49 | 7°37 | 8°40 | 8°52 | n.a. | W 3 |
| T 4 | 14 34 28 | 9°34'28 | 1♎34 | 24°58 | 17°42 | 3°18 | 25° 6 | 16°51 | 13°15 | 23°47 | 3°50 | 7°29 | 8°37 | 8°58 | n.a. | T 4 |
| F 5 | 14 38 25 | 10°31'48 | 14°21 | 26°50 | 18°51 | 3°56 | 25°18 | 16°57 | 13°18 | 23°49 | 3°52 | 7°20 | 8°34 | 9° 5 | n.a. | F 5 |
| S 6 | 14 42 21 | 11°29'06 | 27°27 | 28°40 | 20° 1 | 4°35 | 25°30 | 17° 2 | 13°22 | 23°51 | 3°53 | 7°10 | 8°31 | 9°12 | n.a. | S 6 |
| S 7 | 14 46 18 | 12°26'24 | 10♏50 | 0♊26 | 21°10 | 5°14 | 25°42 | 17° 8 | 13°25 | 23°52 | 3°54 | 7° 1 | 8°28 | 9°18 | n.a. | S 7 |
| M 8 | 14 50 14 | 13°23'40 | 24°29 | 2°11 | 22°19 | 5°53 | 25°54 | 17°13 | 13°28 | 23°54 | 3°56 | 6°54 | 8°25 | 9°25 | n.a. | M 8 |
| T 9 | 14 54 11 | 14°20'56 | 8♐21 | 3°52 | 23°28 | 6°31 | 26° 6 | 17°18 | 13°31 | 23°56 | 3°57 | 6°49 | 8°21 | 9°32 | n.a. | T 9 |
| W10 | 14 58 7 | 15°18'12 | 22°22 | 5°31 | 24°37 | 7°10 | 26°17 | 17°23 | 13°35 | 23°58 | 3°59 | 6°46 | 8°18 | 9°38 | n.a. | W10 |
| T 11 | 15 2 4 | 16°15'26 | 6♑29 | 7° 7 | 25°46 | 7°49 | 26°29 | 17°28 | 13°38 | 24° 0 | 4° 0 | 6°D45 | 8°15 | 9°45 | n.a. | T 11 |
| F 12 | 15 6 1 | 17°12'41 | 20°40 | 8°40 | 26°54 | 8°27 | 26°41 | 17°34 | 13°41 | 24° 1 | 4° 1 | 6°46 | 8°12 | 9°52 | n.a. | F 12 |
| S 13 | 15 9 57 | 18° 9'54 | 4♒52 | 10°11 | 28° 3 | 9° 6 | 26°52 | 17°39 | 13°45 | 24° 3 | 4° 3 | 6°47 | 8° 9 | 9°58 | n.a. | S 13 |
| S 14 | 15 13 54 | 19° 7'08 | 19° 2 | 11°39 | 29°12 | 9°45 | 27° 4 | 17°43 | 13°48 | 24° 5 | 4° 4 | 6°R47 | 8° 5 | 10° 5 | n.a. | S 14 |
| M15 | 15 17 50 | 20° 4'21 | 3♓11 | 13° 4 | 0♋20 | 10°23 | 27°15 | 17°48 | 13°51 | 24° 7 | 4° 6 | 6°46 | 8° 2 | 10°12 | n.a. | M15 |
| T 16 | 15 21 47 | 21° 1'33 | 17°15 | 14°26 | 1°28 | 11° 2 | 27°26 | 17°53 | 13°55 | 24° 9 | 4° 7 | 6°44 | 7°59 | 10°18 | n.a. | T 16 |
| W17 | 15 25 43 | 21°58'46 | 1♈14 | 15°46 | 2°36 | 11°41 | 27°37 | 17°58 | 13°58 | 24°11 | 4° 8 | 6°39 | 7°56 | 10°25 | n.a. | W17 |
| T 18 | 15 29 40 | 22°55'58 | 15° 3 | 17° 2 | 3°44 | 12°19 | 27°48 | 18° 2 | 14° 1 | 24°13 | 4°10 | 6°33 | 7°53 | 10°32 | n.a. | T 18 |
| F 19 | 15 33 36 | 23°53'09 | 28°42 | 18°15 | 4°52 | 12°58 | 27°59 | 18° 7 | 14° 5 | 24°15 | 4°11 | 6°27 | 7°50 | 10°38 | n.a. | F 19 |
| S 20 | 15 37 33 | 24°50'20 | 12♉ 8 | 19°26 | 6° 0 | 13°36 | 28°10 | 18°11 | 14° 8 | 24°17 | 4°13 | 6°20 | 7°46 | 10°45 | n.a. | S 20 |
| S 21 | 15 41 30 | 25°47'31 | 25°18 | 20°33 | 7° 8 | 14°15 | 28°21 | 18°16 | 14°12 | 24°19 | 4°14 | 6°14 | 7°43 | 10°52 | n.a. | S 21 |
| M22 | 15 45 26 | 26°44'42 | 8♊11 | 21°38 | 8°15 | 14°54 | 28°32 | 18°20 | 14°15 | 24°21 | 4°16 | 6° 9 | 7°40 | 10°58 | n.a. | M22 |
| T 23 | 15 49 23 | 27°41'52 | 20°47 | 22°39 | 9°23 | 15°32 | 28°42 | 18°24 | 14°19 | 24°23 | 4°17 | 6° 6 | 7°37 | 11° 5 | n.a. | T 23 |
| W24 | 15 53 19 | 28°39'02 | 3♋ 8 | 23°36 | 10°30 | 16°11 | 28°53 | 18°29 | 14°22 | 24°25 | 4°19 | 6°D 5 | 7°34 | 11°12 | n.a. | W24 |
| T 25 | 15 57 16 | 29°36'11 | 15°16 | 24°31 | 11°37 | 16°49 | 29° 3 | 18°33 | 14°26 | 24°27 | 4°20 | 6° 5 | 7°31 | 11°18 | n.a. | T 25 |
| F 26 | 16 1 12 | 0♊33'20 | 27°13 | 25°21 | 12°44 | 17°28 | 29°13 | 18°37 | 14°29 | 24°29 | 4°21 | 6° 7 | 7°27 | 11°25 | n.a. | F 26 |
| S 27 | 16 5 9 | 1°30'28 | 9♌ 4 | 26° 9 | 13°51 | 18° 6 | 29°23 | 18°40 | 14°33 | 24°31 | 4°23 | 6° 8 | 7°24 | 11°32 | n.a. | S 27 |
| S 28 | 16 9 6 | 2°27'36 | 20°54 | 26°52 | 14°58 | 18°45 | 29°33 | 18°44 | 14°36 | 24°33 | 4°24 | 6°10 | 7°21 | 11°38 | n.a. | S 28 |
| M29 | 16 13 2 | 3°24'43 | 2♍47 | 27°32 | 16° 4 | 19°23 | 29°43 | 18°48 | 14°40 | 24°35 | 4°26 | 6°R10 | 7°18 | 11°45 | n.a. | M29 |
| T 30 | 16 16 59 | 4°21'50 | 14°49 | 28° 7 | 17°10 | 20° 1 | 29°53 | 18°52 | 14°44 | 24°37 | 4°27 | 6°10 | 7°15 | 11°52 | n.a. | T 30 |
| W31 | 16 20 55 | 5♊18'56 | 27♍ 3 | 28♊39 | 18♋16 | 20♊40 | 0♈ 3 | 18♓55 | 14♊47 | 24♊39 | 4♊29 | 6♋ 8 | 7♋11 | 11♌58 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 13n54 | 16n54 | 3n44 | 19n20 | 1n42 | 24n45 | 2n 0 | 21n28 | 0n50 | 3s21 | 1s14 | 7s23 | 2s12 | 22n46 | 0n 9 | 22n46 | 0s47 | 15n49 | 5s25 | 23n28 | 23n24 | 20n46 | | n.a. |
| T 2 | 14 13 | 13 8 | 4 22 | 19 59 | 1 48 | 24 54 | 2 2 | 21 36 | 0 50 | 3 16 | 1 15 | 7 21 | 2 12 | 22 46 | 0 9 | 22 46 | 0 47 | 15 49 | 5 25 | 23 28 | 23 25 | 20 45 | | n.a. |
| W 3 | 14 32 | 8 48 | 4 49 | 20 35 | 1 54 | 25 3 | 2 3 | 21 45 | 0 50 | 3 12 | 1 15 | 7 19 | 2 12 | 22 47 | 0 9 | 22 47 | 0 47 | 15 49 | 5 25 | 23 29 | 23 25 | 20 44 | | n.a. |
| T 4 | 14 50 | 4 0 | 5 3 | 21 8 | 1 59 | 25 12 | 2 5 | 21 53 | 0 51 | 3 7 | 1 15 | 7 17 | 2 12 | 22 47 | 0 9 | 22 47 | 0 47 | 15 50 | 5 25 | 23 29 | 23 25 | 20 43 | | n.a. |
| F 5 | 15 9 | 1s 4 | 5 3 | 21 40 | 2 3 | 25 19 | 2 6 | 22 0 | 0 51 | 3 2 | 1 15 | 7 15 | 2 13 | 22 47 | 0 9 | 22 47 | 0 47 | 15 50 | 5 25 | 23 30 | 23 25 | 20 42 | | n.a. |
| S 6 | 15 27 | 6 13 | 4 46 | 22 8 | 2 7 | 25 26 | 2 7 | 22 8 | 0 51 | 2 57 | 1 15 | 7 13 | 2 13 | 22 48 | 0 9 | 22 47 | 0 47 | 15 50 | 5 25 | 23 30 | 23 26 | 20 41 | | n.a. |
| S 7 | 15 44 | 11 13 | 4 14 | 22 35 | 2 10 | 25 33 | 2 9 | 22 15 | 0 52 | 2 53 | 1 15 | 7 11 | 2 13 | 22 48 | 0 9 | 22 47 | 0 47 | 15 51 | 5 25 | 23 31 | 23 26 | 20 40 | | n.a. |
| M 8 | 16 2 | 15 45 | 3 27 | 22 58 | 2 12 | 25 38 | 2 10 | 22 23 | 0 52 | 2 48 | 1 15 | 7 9 | 2 13 | 22 49 | 0 9 | 22 47 | 0 47 | 15 51 | 5 25 | 23 31 | 23 26 | 20 39 | | n.a. |
| T 9 | 16 19 | 19 32 | 2 27 | 23 20 | 2 13 | 25 43 | 2 11 | 22 30 | 0 53 | 2 43 | 1 16 | 7 7 | 2 14 | 22 49 | 0 9 | 22 47 | 0 47 | 15 51 | 5 25 | 23 32 | 23 26 | 20 38 | | n.a. |
| W10 | 16 36 | 22 12 | 1 17 | 23 39 | 2 13 | 25 47 | 2 12 | 22 37 | 0 53 | 2 39 | 1 16 | 7 5 | 2 14 | 22 49 | 0 9 | 22 47 | 0 46 | 15 52 | 5 24 | 23 32 | 23 26 | 20 37 | | n.a. |
| T 11 | 16 53 | 23 31 | 0 1 | 23 55 | 2 13 | 25 51 | 2 13 | 22 44 | 0 53 | 2 34 | 1 16 | 7 3 | 2 14 | 22 50 | 0 9 | 22 47 | 0 46 | 15 52 | 5 24 | 23 32 | 23 27 | 20 36 | | n.a. |
| F 12 | 17 9 | 23 19 | 1s14 | 24 10 | 2 12 | 25 53 | 2 13 | 22 50 | 0 53 | 2 30 | 1 16 | 7 1 | 2 14 | 22 50 | 0 9 | 22 48 | 0 46 | 15 52 | 5 24 | 23 32 | 23 27 | 20 35 | | n.a. |
| S 13 | 17 26 | 21 37 | 2 26 | 24 22 | 2 11 | 25 55 | 2 14 | 22 57 | 0 54 | 2 25 | 1 16 | 7 0 | 2 14 | 22 51 | 0 9 | 22 48 | 0 46 | 15 53 | 5 24 | 23 32 | 23 27 | 20 33 | | n.a. |
| S 14 | 17 42 | 18 34 | 3 28 | 24 33 | 2 8 | 25 57 | 2 15 | 23 3 | 0 54 | 2 21 | 1 16 | 6 58 | 2 15 | 22 51 | 0 9 | 22 48 | 0 46 | 15 53 | 5 24 | 23 32 | 23 27 | 20 32 | | n.a. |
| M15 | 17 57 | 14 26 | 4 17 | 24 41 | 2 5 | 25 57 | 2 15 | 23 9 | 0 54 | 2 16 | 1 17 | 6 56 | 2 15 | 22 52 | 0 9 | 22 48 | 0 46 | 15 53 | 5 24 | 23 32 | 23 27 | 20 31 | | n.a. |
| T 16 | 18 13 | 9 33 | 4 51 | 24 47 | 2 1 | 25 57 | 2 15 | 23 15 | 0 55 | 2 12 | 1 17 | 6 54 | 2 15 | 22 52 | 0 9 | 22 48 | 0 46 | 15 54 | 5 24 | 23 32 | 23 28 | 20 30 | | n.a. |
| W17 | 18 28 | 4 12 | 5 7 | 24 52 | 1 56 | 25 56 | 2 16 | 23 21 | 0 55 | 2 8 | 1 17 | 6 53 | 2 15 | 22 52 | 0 9 | 22 48 | 0 46 | 15 54 | 5 24 | 23 32 | 23 28 | 20 29 | | n.a. |
| T 18 | 18 43 | 1n18 | 5 5 | 24 54 | 1 51 | 25 55 | 2 16 | 23 26 | 0 55 | 2 4 | 1 17 | 6 51 | 2 16 | 22 53 | 0 9 | 22 48 | 0 46 | 15 54 | 5 24 | 23 32 | 23 28 | 20 28 | | n.a. |
| F 19 | 18 57 | 6 41 | 4 46 | 24 55 | 1 45 | 25 53 | 2 16 | 23 31 | 0 56 | 1 59 | 1 17 | 6 50 | 2 16 | 22 53 | 0 9 | 22 48 | 0 46 | 15 55 | 5 24 | 23 33 | 23 28 | 20 27 | | n.a. |
| S 20 | 19 11 | 11 40 | 4 11 | 24 55 | 1 38 | 25 50 | 2 16 | 23 37 | 0 56 | 1 55 | 1 18 | 6 48 | 2 16 | 22 54 | 0 9 | 22 48 | 0 46 | 15 55 | 5 24 | 23 33 | 23 28 | 20 26 | | n.a. |
| S 21 | 19 25 | 16 1 | 3 23 | 24 52 | 1 31 | 25 46 | 2 16 | 23 42 | 0 56 | 1 51 | 1 18 | 6 47 | 2 16 | 22 54 | 0 9 | 22 49 | 0 46 | 15 55 | 5 24 | 23 33 | 23 28 | 20 24 | | n.a. |
| M22 | 19 39 | 19 31 | 2 26 | 24 49 | 1 23 | 25 42 | 2 16 | 23 46 | 0 57 | 1 47 | 1 18 | 6 45 | 2 17 | 22 54 | 0 9 | 22 49 | 0 46 | 15 56 | 5 24 | 23 33 | 23 29 | 20 23 | | n.a. |
| T 23 | 19 52 | 22 1 | 1 22 | 24 44 | 1 14 | 25 37 | 2 15 | 23 51 | 0 57 | 1 43 | 1 18 | 6 44 | 2 17 | 22 55 | 0 9 | 22 49 | 0 46 | 15 56 | 5 23 | 23 34 | 23 29 | 20 22 | | n.a. |
| W24 | 20 5 | 23 24 | 0 16 | 24 38 | 1 5 | 25 31 | 2 15 | 23 55 | 0 57 | 1 39 | 1 18 | 6 42 | 2 17 | 22 55 | 0 9 | 22 49 | 0 46 | 15 56 | 5 23 | 23 34 | 23 29 | 20 21 | | n.a. |
| T 25 | 20 17 | 23 39 | 0n50 | 24 30 | 0 55 | 25 25 | 2 14 | 24 0 | 0 57 | 1 35 | 1 18 | 6 41 | 2 17 | 22 56 | 0 9 | 22 49 | 0 46 | 15 57 | 5 23 | 23 34 | 23 29 | 20 20 | | n.a. |
| F 26 | 20 29 | 22 47 | 1 53 | 24 21 | 0 44 | 25 18 | 2 13 | 24 4 | 0 58 | 1 31 | 1 19 | 6 40 | 2 18 | 22 56 | 0 9 | 22 49 | 0 46 | 15 57 | 5 23 | 23 34 | 23 29 | 20 19 | | n.a. |
| S 27 | 20 41 | 20 55 | 2 50 | 24 12 | 0 33 | 25 10 | 2 13 | 24 8 | 0 58 | 1 27 | 1 19 | 6 38 | 2 18 | 22 57 | 0 9 | 22 49 | 0 46 | 15 57 | 5 23 | 23 34 | 23 30 | 20 17 | | n.a. |
| S 28 | 20 53 | 18 10 | 3 41 | 24 1 | 0 21 | 25 2 | 2 12 | 24 11 | 0 58 | 1 23 | 1 19 | 6 37 | 2 18 | 22 57 | 0 9 | 22 49 | 0 46 | 15 58 | 5 23 | 23 33 | 23 30 | 20 16 | | n.a. |
| M29 | 21 4 | 14 39 | 4 22 | 23 49 | 0 9 | 24 53 | 2 11 | 24 15 | 0 59 | 1 19 | 1 19 | 6 36 | 2 18 | 22 57 | 0 9 | 22 49 | 0 46 | 15 58 | 5 23 | 23 33 | 23 30 | 20 15 | | n.a. |
| T 30 | 21 15 | 10 31 | 4 52 | 23 37 | 0s 4 | 24 44 | 2 10 | 24 18 | 0 59 | 1 16 | 1 19 | 6 35 | 2 19 | 22 58 | 0 9 | 22 50 | 0 46 | 15 58 | 5 23 | 23 33 | 23 30 | 20 14 | | n.a. |
| W31 | 21n25 | 5n54 | 5n 9 | 23n24 | 0s18 | 24n34 | 2n 8 | 24n21 | 0n59 | 1s12 | 1s20 | 6s33 | 2s19 | 22n58 | 0n 9 | 22n50 | 0s46 | 15n59 | 5s23 | 23n34 | 23n30 | 20n13 | | n.a. |

Julian Day Number = 1697436.5, Delta T = 03h07m19s
Ecliptic obliquity = 23°42'10, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°58'14, Lahiri = - 4°51'14 Julian Calendar 1 May 66 BCE == Greg. Calendar 29 Apr. 066 BCE

The year -65 astronomical counting style corresponds to year 066 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 66 BCE
# geocentric

## JUNE 66 BCE (-65) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 24 52 | 6♊16'02 | 9♎35 | 29♊ 6 | 19♋22 | 21♊18 | 0♈12 | 18♓59 | 14♊51 | 24♊42 | 4♊30 | 6°R 5 | 7♋ 8 | 12♌ 5 | n.a. | T 1 |
| F 2 | 16 28 48 | 7°13'08 | 22°27 | 29°29 | 20°28 | 21°57 | 0°22 | 19° 2 | 14°54 | 24°44 | 4°32 | 6♋ 1 | 7° 5 | 12°12 | n.a. | F 2 |
| S 3 | 16 32 45 | 8°10'14 | 5♏41 | 29°48 | 21°34 | 22°35 | 0°31 | 19° 5 | 14°58 | 24°46 | 4°33 | 5°57 | 7° 2 | 12°18 | n.a. | S 3 |
| S 4 | 16 36 41 | 9° 7'19 | 19°17 | 0♋ 2 | 22°39 | 23°13 | 0°40 | 19° 8 | 15° 2 | 24°48 | 4°35 | 5°53 | 6°59 | 12°25 | n.a. | S 4 |
| M 5 | 16 40 38 | 10° 4'25 | 3♐14 | 0°12 | 23°44 | 23°52 | 0°49 | 19°12 | 15° 5 | 24°50 | 4°36 | 5°49 | 6°56 | 12°32 | n.a. | M 5 |
| T 6 | 16 44 35 | 11° 1'30 | 17°29 | 0°16 | 24°49 | 24°30 | 0°58 | 19°15 | 15° 9 | 24°52 | 4°38 | 5°47 | 6°52 | 12°38 | n.a. | T 6 |
| W 7 | 16 48 31 | 11°58'36 | 1♑55 | 0°R17 | 25°54 | 25° 9 | 1° 7 | 19°18 | 15°12 | 24°55 | 4°39 | 5°D46 | 6°49 | 12°45 | n.a. | W 7 |
| T 8 | 16 52 28 | 12°55'42 | 16°28 | 0°12 | 26°59 | 25°47 | 1°16 | 19°20 | 15°16 | 24°57 | 4°40 | 5°47 | 6°46 | 12°52 | n.a. | T 8 |
| F 9 | 16 56 24 | 13°52'48 | 1♒ 2 | 0° 3 | 28° 3 | 26°25 | 1°25 | 19°23 | 15°20 | 24°59 | 4°42 | 5°48 | 6°43 | 12°58 | n.a. | F 9 |
| S 10 | 17 0 21 | 14°49'55 | 15°33 | 29♊49 | 29° 7 | 27° 4 | 1°33 | 19°26 | 15°23 | 25° 1 | 4°43 | 5°49 | 6°40 | 13° 5 | n.a. | S 10 |
| S 11 | 17 4 17 | 15°47'02 | 29°55 | 29°31 | 0♌11 | 27°42 | 1°41 | 19°28 | 15°27 | 25° 3 | 4°45 | 5°50 | 6°37 | 13°12 | n.a. | S 11 |
| M12 | 17 8 14 | 16°44'10 | 14♓ 6 | 29° 9 | 1°15 | 28°20 | 1°49 | 19°31 | 15°31 | 25° 6 | 4°46 | 5°R51 | 6°33 | 13°19 | n.a. | M12 |
| T 13 | 17 12 10 | 17°41'19 | 28° 5 | 28°43 | 2°19 | 28°58 | 1°57 | 19°33 | 15°34 | 25° 8 | 4°48 | 5°50 | 6°30 | 13°25 | n.a. | T 13 |
| W14 | 17 16 7 | 18°38'28 | 11♈49 | 28°13 | 3°22 | 29°37 | 2° 5 | 19°35 | 15°38 | 25°10 | 4°49 | 5°49 | 6°27 | 13°32 | n.a. | W14 |
| T 15 | 17 20 4 | 19°35'37 | 25°20 | 27°40 | 4°25 | 0♋15 | 2°13 | 19°37 | 15°41 | 25°12 | 4°51 | 5°48 | 6°24 | 13°39 | n.a. | T 15 |
| F 16 | 17 24 0 | 20°32'48 | 8♉35 | 27° 4 | 5°28 | 0°53 | 2°21 | 19°39 | 15°45 | 25°14 | 4°52 | 5°46 | 6°21 | 13°45 | n.a. | F 16 |
| S 17 | 17 27 57 | 21°29'59 | 21°37 | 26°26 | 6°30 | 1°32 | 2°28 | 19°41 | 15°49 | 25°17 | 4°53 | 5°44 | 6°17 | 13°52 | n.a. | S 17 |
| S 18 | 17 31 53 | 22°27'11 | 4♊24 | 25°47 | 7°33 | 2°10 | 2°36 | 19°43 | 15°52 | 25°19 | 4°55 | 5°42 | 6°14 | 13°59 | n.a. | S 18 |
| M19 | 17 35 50 | 23°24'23 | 16°58 | 25° 7 | 8°35 | 2°48 | 2°43 | 19°45 | 15°56 | 25°21 | 4°56 | 5°41 | 6°11 | 14° 5 | n.a. | M19 |
| T 20 | 17 39 46 | 24°21'36 | 29°20 | 24°26 | 9°36 | 3°26 | 2°50 | 19°47 | 15°59 | 25°23 | 4°58 | 5°40 | 6° 8 | 14°12 | n.a. | T 20 |
| W21 | 17 43 43 | 25°18'49 | 11♋30 | 23°46 | 10°38 | 4° 5 | 2°57 | 19°48 | 16° 3 | 25°26 | 4°59 | 5°D40 | 6° 5 | 14°19 | n.a. | W21 |
| T 22 | 17 47 40 | 26°16'03 | 23°31 | 23° 7 | 11°39 | 4°43 | 3° 3 | 19°50 | 16° 7 | 25°28 | 5° 0 | 5°41 | 6° 2 | 14°25 | n.a. | T 22 |
| F 23 | 17 51 36 | 27°13'18 | 5♌25 | 22°31 | 12°40 | 5°21 | 3°10 | 19°51 | 16°10 | 25°30 | 5° 2 | 5°41 | 5°58 | 14°32 | n.a. | F 23 |
| S 24 | 17 55 33 | 28°10'33 | 17°15 | 21°56 | 13°40 | 5°59 | 3°16 | 19°52 | 16°14 | 25°32 | 5° 3 | 5°42 | 5°55 | 14°39 | n.a. | S 24 |
| S 25 | 17 59 29 | 29° 7'49 | 29° 4 | 21°25 | 14°40 | 6°38 | 3°23 | 19°53 | 16°17 | 25°35 | 5° 4 | 5°43 | 5°52 | 14°45 | n.a. | S 25 |
| M26 | 18 3 26 | 0♋ 5'05 | 10♍57 | 20°58 | 15°40 | 7°16 | 3°29 | 19°54 | 16°21 | 25°37 | 5° 6 | 5°43 | 5°49 | 14°52 | n.a. | M26 |
| T 27 | 18 7 22 | 1° 2'21 | 22°57 | 20°35 | 16°39 | 7°54 | 3°35 | 19°55 | 16°24 | 25°39 | 5° 7 | 5°44 | 5°46 | 14°59 | n.a. | T 27 |
| W28 | 18 11 19 | 1°59'38 | 5♎10 | 20°17 | 17°39 | 8°32 | 3°40 | 19°56 | 16°28 | 25°41 | 5° 8 | 5°R44 | 5°43 | 15° 5 | n.a. | W28 |
| T 29 | 18 15 15 | 2°56'56 | 17°40 | 20° 4 | 18°37 | 9°11 | 3°46 | 19°57 | 16°31 | 25°43 | 5°10 | 5°44 | 5°39 | 15°12 | n.a. | T 29 |
| F 30 | 18 19 12 | 3♋54'14 | 0♏30 | 19♊56 | 19♌36 | 9♋49 | 3♈51 | 19♓58 | 16♊35 | 25♊46 | 5♊11 | 5♋43 | 5♋36 | 15♌19 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21n36 | 0n57 | 5n12 | 23n10 | 0s32 | 24n23 | 2n 7 | 24n24 | 0n59 | 1s 8 | 1s20 | 6s32 | 2s19 | 22n59 | 0n 9 | 22n50 | 0s46 | 15n59 | 5s23 | 23n34 | 23n30 | 20n11 | | n.a. |
| F 2 | 21 45 | 4s11 | 5 0 | 22 56 | 0 46 | 24 11 | 2 5 | 24 27 | 1 0 | 1 5 | 1 20 | 6 31 | 2 19 | 22 59 | 0 9 | 22 50 | 0 46 | 15 59 | 5 23 | 23 34 | 23 31 | 20 10 | | n.a. |
| S 3 | 21 55 | 9 17 | 4 32 | 22 41 | 1 1 | 23 59 | 2 4 | 24 29 | 1 0 | 1 1 | 1 20 | 6 30 | 2 20 | 23 0 | 0 9 | 22 50 | 0 46 | 16 0 | 5 23 | 23 34 | 23 31 | 20 9 | | n.a. |
| S 4 | 22 4 | 14 5 | 3 48 | 22 26 | 1 16 | 23 47 | 2 2 | 24 32 | 1 0 | 0 58 | 1 21 | 6 29 | 2 20 | 23 0 | 0 9 | 22 50 | 0 46 | 16 0 | 5 23 | 23 34 | 23 31 | 20 8 | | n.a. |
| M 5 | 22 12 | 18 16 | 2 49 | 22 11 | 1 31 | 23 34 | 2 0 | 24 34 | 1 0 | 0 54 | 1 21 | 6 28 | 2 20 | 23 0 | 0 9 | 22 50 | 0 46 | 16 0 | 5 23 | 23 34 | 23 31 | 20 6 | | n.a. |
| T 6 | 22 21 | 21 28 | 1 39 | 21 55 | 1 47 | 23 20 | 1 58 | 24 36 | 1 1 | 0 51 | 1 21 | 6 27 | 2 20 | 23 1 | 0 9 | 22 50 | 0 46 | 16 0 | 5 23 | 23 34 | 23 31 | 20 5 | | n.a. |
| W 7 | 22 28 | 23 20 | 0 21 | 21 40 | 2 2 | 23 6 | 1 56 | 24 37 | 1 1 | 0 47 | 1 21 | 6 26 | 2 21 | 23 1 | 0 9 | 22 50 | 0 46 | 16 1 | 5 23 | 23 35 | 23 31 | 20 4 | | n.a. |
| T 8 | 22 36 | 23 39 | 0s59 | 21 24 | 2 18 | 22 51 | 1 54 | 24 39 | 1 1 | 0 44 | 1 21 | 6 25 | 2 21 | 23 2 | 0 9 | 22 50 | 0 46 | 16 1 | 5 23 | 23 34 | 23 32 | 20 3 | | n.a. |
| F 9 | 22 43 | 22 20 | 2 15 | 21 9 | 2 33 | 22 36 | 1 51 | 24 40 | 1 1 | 0 41 | 1 22 | 6 25 | 2 21 | 23 2 | 0 9 | 22 51 | 0 46 | 16 1 | 5 23 | 23 34 | 23 32 | 20 1 | | n.a. |
| S 10 | 22 50 | 19 34 | 3 22 | 20 54 | 2 48 | 22 20 | 1 49 | 24 42 | 1 1 | 0 38 | 1 22 | 6 24 | 2 22 | 23 2 | 0 9 | 22 51 | 0 46 | 16 2 | 5 23 | 23 34 | 23 32 | 20 0 | | n.a. |
| S 11 | 22 56 | 15 36 | 4 16 | 20 39 | 3 3 | 22 4 | 1 46 | 24 43 | 1 2 | 0 34 | 1 22 | 6 23 | 2 22 | 23 3 | 0 9 | 22 51 | 0 46 | 16 2 | 5 23 | 23 34 | 23 32 | 19 59 | | n.a. |
| M12 | 23 2 | 10 49 | 4 53 | 20 25 | 3 17 | 21 47 | 1 43 | 24 43 | 1 2 | 0 31 | 1 22 | 6 22 | 2 22 | 23 3 | 0 9 | 22 51 | 0 46 | 16 2 | 5 23 | 23 34 | 23 32 | 19 58 | | n.a. |
| T 13 | 23 8 | 5 33 | 5 13 | 20 11 | 3 31 | 21 30 | 1 41 | 24 44 | 1 2 | 0 28 | 1 23 | 6 22 | 2 22 | 23 4 | 0 9 | 22 51 | 0 46 | 16 2 | 5 23 | 23 34 | 23 32 | 19 56 | | n.a. |
| W14 | 23 13 | 0 5 | 5 14 | 19 58 | 3 44 | 21 12 | 1 37 | 24 44 | 1 2 | 0 25 | 1 23 | 6 21 | 2 23 | 23 4 | 0 9 | 22 51 | 0 46 | 16 3 | 5 22 | 23 34 | 23 33 | 19 55 | | n.a. |
| T 15 | 23 17 | 5n17 | 4 58 | 19 45 | 3 56 | 20 54 | 1 34 | 24 45 | 1 3 | 0 23 | 1 23 | 6 20 | 2 23 | 23 4 | 0 9 | 22 51 | 0 46 | 16 3 | 5 22 | 23 34 | 23 33 | 19 54 | | n.a. |
| F 16 | 23 22 | 10 20 | 4 26 | 19 34 | 4 7 | 20 35 | 1 31 | 24 45 | 1 3 | 0 20 | 1 23 | 6 20 | 2 23 | 23 5 | 0 9 | 22 51 | 0 46 | 16 3 | 5 22 | 23 35 | 23 33 | 19 52 | | n.a. |
| S 17 | 23 26 | 14 49 | 3 40 | 19 23 | 4 16 | 20 16 | 1 28 | 24 45 | 1 3 | 0 17 | 1 24 | 6 19 | 2 24 | 23 5 | 0 9 | 22 51 | 0 46 | 16 4 | 5 22 | 23 35 | 23 33 | 19 51 | | n.a. |
| S 18 | 23 29 | 18 34 | 2 45 | 19 14 | 4 24 | 19 56 | 1 24 | 24 44 | 1 3 | 0 14 | 1 24 | 6 19 | 2 24 | 23 6 | 0 9 | 22 51 | 0 46 | 16 4 | 5 22 | 23 35 | 23 33 | 19 50 | | n.a. |
| M19 | 23 32 | 21 22 | 1 42 | 19 6 | 4 31 | 19 36 | 1 20 | 24 44 | 1 3 | 0 12 | 1 24 | 6 18 | 2 24 | 23 6 | 0 9 | 22 52 | 0 46 | 16 4 | 5 22 | 23 35 | 23 33 | 19 48 | | n.a. |
| T 20 | 23 35 | 23 7 | 0 35 | 18 59 | 4 36 | 19 16 | 1 16 | 24 43 | 1 4 | 0 9 | 1 24 | 6 18 | 2 24 | 23 6 | 0 9 | 22 52 | 0 46 | 16 4 | 5 22 | 23 35 | 23 34 | 19 47 | | n.a. |
| W21 | 23 37 | 23 44 | 0n32 | 18 54 | 4 40 | 18 55 | 1 12 | 24 42 | 1 4 | 0 6 | 1 25 | 6 18 | 2 25 | 23 7 | 0 9 | 22 52 | 0 46 | 16 5 | 5 22 | 23 35 | 23 34 | 19 46 | | n.a. |
| T 22 | 23 39 | 23 14 | 1 37 | 18 50 | 4 42 | 18 34 | 1 8 | 24 41 | 1 4 | 0 4 | 1 25 | 6 17 | 2 25 | 23 7 | 0 9 | 22 52 | 0 46 | 16 5 | 5 22 | 23 35 | 23 34 | 19 45 | | n.a. |
| F 23 | 23 40 | 21 40 | 2 38 | 18 48 | 4 42 | 18 13 | 1 4 | 24 40 | 1 4 | 0 2 | 1 25 | 6 17 | 2 25 | 23 8 | 0 9 | 22 52 | 0 46 | 16 5 | 5 22 | 23 35 | 23 34 | 19 43 | | n.a. |
| S 24 | 23 41 | 19 11 | 3 31 | 18 47 | 4 40 | 17 51 | 0 59 | 24 38 | 1 4 | 0n 1 | 1 25 | 6 17 | 2 26 | 23 8 | 0 9 | 22 52 | 0 46 | 16 5 | 5 22 | 23 35 | 23 34 | 19 42 | | n.a. |
| S 25 | 23 42 | 15 54 | 4 15 | 18 49 | 4 37 | 17 29 | 0 55 | 24 37 | 1 5 | 0 3 | 1 26 | 6 17 | 2 26 | 23 8 | 0 9 | 22 52 | 0 46 | 16 6 | 5 22 | 23 35 | 23 34 | 19 41 | | n.a. |
| M26 | 23 42 | 11 59 | 4 48 | 18 52 | 4 32 | 17 7 | 0 50 | 24 35 | 1 5 | 0 5 | 1 26 | 6 17 | 2 26 | 23 9 | 0 9 | 22 52 | 0 46 | 16 6 | 5 22 | 23 35 | 23 34 | 19 39 | | n.a. |
| T 27 | 23 42 | 7 33 | 5 10 | 18 56 | 4 26 | 16 44 | 0 45 | 24 33 | 1 5 | 0 7 | 1 26 | 6 16 | 2 27 | 23 9 | 0 9 | 22 52 | 0 46 | 16 6 | 5 22 | 23 35 | 23 35 | 19 38 | | n.a. |
| W28 | 23 41 | 2 46 | 5 17 | 19 2 | 4 19 | 16 21 | 0 40 | 24 30 | 1 5 | 0 9 | 1 26 | 6 16 | 2 27 | 23 9 | 0 9 | 22 52 | 0 46 | 16 6 | 5 22 | 23 35 | 23 35 | 19 36 | | n.a. |
| T 29 | 23 40 | 2s14 | 5 11 | 19 10 | 4 10 | 15 58 | 0 35 | 24 28 | 1 5 | 0 11 | 1 27 | 6 16 | 2 27 | 23 10 | 0 9 | 22 52 | 0 46 | 16 7 | 5 22 | 23 35 | 23 35 | 19 35 | | n.a. |
| F 30 | 23n39 | 7s16 | 4n48 | 19n20 | 4s 0 | 15n34 | 0n30 | 24n25 | 1n 5 | 0n13 | 1s27 | 6s16 | 2s27 | 23n10 | 0n 9 | 22n52 | 0s46 | 16n 7 | 5s22 | 23n35 | 23n35 | 19n34 | | n.a. |

Julian Day Number = 1697467.5, Delta T = 03h07m18s
Ecliptic obliquity = 23°42'09, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°58'10, Lahiri = - 4°51'10 Julian Calendar 1 June 66 BCE == Greg. Calendar 30 May 066 BCE

The year -65 astronomical counting style corresponds to year 066 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 66 BCE
# geocentric

## JULY 66 BCE (-65) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 23 9 | 4♋51'33 | 13♏44 | 19°D55 | 20♌33 | 10♋27 | 3♈57 | 19♓58 | 16♊38 | 25♊48 | 5♊12 | 5°R43 | 5♋33 | 15♌25 | n.a. | S 1 |
| S 2 | 18 27 5 | 5°48'52 | 27°24 | 19♊59 | 21°31 | 11° 5 | 4° 2 | 19°59 | 16°42 | 25°50 | 5°14 | 5°D43 | 5°30 | 15°32 | n.a. | S 2 |
| M 3 | 18 31 2 | 6°46'13 | 11♐29 | 20°10 | 22°28 | 11°43 | 4° 7 | 19°59 | 16°45 | 25°52 | 5°15 | 5♋43 | 5°27 | 15°39 | n.a. | M 3 |
| T 4 | 18 34 58 | 7°43'34 | 25°56 | 20°27 | 23°25 | 12°22 | 4°12 | 19°59 | 16°49 | 25°54 | 5°16 | 5°43 | 5°23 | 15°45 | n.a. | T 4 |
| W 5 | 18 38 55 | 8°40'57 | 10♑41 | 20°51 | 24°21 | 13° 0 | 4°16 | 19°59 | 16°52 | 25°57 | 5°18 | 5°R43 | 5°20 | 15°52 | n.a. | W 5 |
| T 6 | 18 42 51 | 9°38'20 | 25°37 | 21°21 | 25°16 | 13°38 | 4°21 | 19°R59 | 16°56 | 25°59 | 5°19 | 5°43 | 5°17 | 15°59 | n.a. | T 6 |
| F 7 | 18 46 48 | 10°35'45 | 10♒35 | 21°57 | 26°12 | 14°16 | 4°25 | 19°59 | 16°59 | 26° 1 | 5°20 | 5°43 | 5°14 | 16° 5 | n.a. | F 7 |
| S 8 | 18 50 44 | 11°33'10 | 25°28 | 22°40 | 27° 6 | 14°54 | 4°29 | 19°59 | 17° 2 | 26° 3 | 5°21 | 5°42 | 5°11 | 16°12 | n.a. | S 8 |
| S 9 | 18 54 41 | 12°30'37 | 10♓ 9 | 23°29 | 28° 0 | 15°32 | 4°33 | 19°59 | 17° 6 | 26° 5 | 5°22 | 5°42 | 5° 8 | 16°19 | n.a. | S 9 |
| M10 | 18 58 38 | 13°28'06 | 24°33 | 24°24 | 28°54 | 16°11 | 4°36 | 19°58 | 17° 9 | 26° 7 | 5°24 | 5°41 | 5° 4 | 16°25 | n.a. | M10 |
| T 11 | 19 2 34 | 14°25'36 | 8♈35 | 25°25 | 29°47 | 16°49 | 4°40 | 19°58 | 17°12 | 26°10 | 5°25 | 5°D41 | 5° 1 | 16°32 | n.a. | T 11 |
| W12 | 19 6 31 | 15°23'07 | 22°16 | 26°32 | 0♍39 | 17°27 | 4°43 | 19°57 | 17°16 | 26°12 | 5°26 | 5°41 | 4°58 | 16°39 | n.a. | W12 |
| T 13 | 19 10 27 | 16°20'40 | 5♉36 | 27°45 | 1°31 | 18° 5 | 4°46 | 19°56 | 17°19 | 26°14 | 5°27 | 5°41 | 4°55 | 16°46 | n.a. | T 13 |
| F 14 | 19 14 24 | 17°18'15 | 18°37 | 29° 4 | 2°22 | 18°43 | 4°49 | 19°56 | 17°22 | 26°16 | 5°28 | 5°42 | 4°52 | 16°52 | n.a. | F 14 |
| S 15 | 19 18 20 | 18°15'51 | 1♊20 | 0♋27 | 3°13 | 19°22 | 4°52 | 19°55 | 17°26 | 26°18 | 5°29 | 5°43 | 4°49 | 16°59 | n.a. | S 15 |
| S 16 | 19 22 17 | 19°13'29 | 13°49 | 1°56 | 4° 3 | 20° 0 | 4°55 | 19°54 | 17°29 | 26°20 | 5°31 | 5°44 | 4°45 | 17° 6 | n.a. | S 16 |
| M17 | 19 26 13 | 20°11'08 | 26° 6 | 3°29 | 4°52 | 20°38 | 4°57 | 19°52 | 17°32 | 26°22 | 5°32 | 5°45 | 4°42 | 17°12 | n.a. | M17 |
| T 18 | 19 30 10 | 21° 8'49 | 8♋14 | 5° 7 | 5°40 | 21°16 | 4°59 | 19°51 | 17°35 | 26°24 | 5°33 | 5°R45 | 4°39 | 17°19 | n.a. | T 18 |
| W19 | 19 34 7 | 22° 6'31 | 20°14 | 6°48 | 6°28 | 21°54 | 5° 1 | 19°50 | 17°38 | 26°26 | 5°34 | 5°45 | 4°36 | 17°26 | n.a. | W19 |
| T 20 | 19 38 3 | 23° 4'15 | 2♌ 8 | 8°34 | 7°15 | 22°33 | 5° 3 | 19°48 | 17°41 | 26°28 | 5°35 | 5°43 | 4°33 | 17°32 | n.a. | T 20 |
| F 21 | 19 42 0 | 24° 2'00 | 13°58 | 10°22 | 8° 1 | 23°11 | 5° 5 | 19°47 | 17°45 | 26°30 | 5°36 | 5°41 | 4°29 | 17°39 | n.a. | F 21 |
| S 22 | 19 45 56 | 24°59'47 | 25°47 | 12°13 | 8°47 | 23°49 | 5° 6 | 19°45 | 17°48 | 26°33 | 5°37 | 5°38 | 4°26 | 17°46 | n.a. | S 22 |
| S 23 | 19 49 53 | 25°57'35 | 7♍37 | 14° 6 | 9°31 | 24°27 | 5° 7 | 19°43 | 17°51 | 26°35 | 5°38 | 5°35 | 4°23 | 17°52 | n.a. | S 23 |
| M24 | 19 53 49 | 26°55'24 | 19°31 | 16° 2 | 10°14 | 25° 6 | 5° 8 | 19°42 | 17°54 | 26°36 | 5°39 | 5°32 | 4°20 | 17°59 | n.a. | M24 |
| T 25 | 19 57 46 | 27°53'14 | 1♎32 | 17°58 | 10°57 | 25°44 | 5° 9 | 19°40 | 17°57 | 26°38 | 5°40 | 5°29 | 4°17 | 18° 6 | n.a. | T 25 |
| W26 | 20 1 42 | 28°51'06 | 13°44 | 19°56 | 11°39 | 26°22 | 5°10 | 19°38 | 18° 0 | 26°40 | 5°41 | 5°27 | 4°14 | 18°12 | n.a. | W26 |
| T 27 | 20 5 39 | 29°49'00 | 26°11 | 21°55 | 12°19 | 27° 0 | 5°10 | 19°36 | 18° 3 | 26°42 | 5°42 | 5°D26 | 4°10 | 18°19 | n.a. | T 27 |
| F 28 | 20 9 36 | 0♌46'54 | 8♏56 | 23°54 | 12°59 | 27°38 | 5°11 | 19°33 | 18° 5 | 26°44 | 5°43 | 5°26 | 4° 7 | 18°26 | n.a. | F 28 |
| S 29 | 20 13 32 | 1°44'50 | 22° 4 | 25°54 | 13°37 | 28°17 | 5°R11 | 19°31 | 18° 8 | 26°46 | 5°44 | 5°27 | 4° 4 | 18°32 | n.a. | S 29 |
| S 30 | 20 17 29 | 2°42'48 | 5♐37 | 27°53 | 14°14 | 28°55 | 5°10 | 19°29 | 18°11 | 26°48 | 5°45 | 5°29 | 4° 1 | 18°39 | n.a. | S 30 |
| M31 | 20 21 25 | 3♌40'47 | 19♐38 | 29♋52 | 14♍50 | 29♋33 | 5♈10 | 19♓26 | 18♊14 | 26♊50 | 5♊45 | 5♋30 | 3♋58 | 18♌46 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23n37 | 12s 9 | 4n10 | 19n31 | 3s49 | 15n11 | 0n24 | 24n23 | 1n 6 | 0n15 | 1s27 | 6s16 | 2s28 | 23n11 | 0n 9 | 22n53 | 0s46 | 16n 7 | 5s22 | 23n35 | 23n35 | 19n32 | | n.a. |
| S 2 | 23 34 | 16 36 | 3 17 | 19 43 | 3 37 | 14 47 | 0 19 | 24 20 | 1 6 | 0 17 | 1 27 | 6 17 | 2 28 | 23 11 | 0 9 | 22 53 | 0 46 | 16 7 | 5 22 | 23 35 | 23 35 | 19 31 | | n.a. |
| M 3 | 23 32 | 20 15 | 2 11 | 19 57 | 3 24 | 14 23 | 0 13 | 24 16 | 1 6 | 0 19 | 1 28 | 6 17 | 2 28 | 23 11 | 0 9 | 22 53 | 0 46 | 16 7 | 5 22 | 23 35 | 23 35 | 19 30 | | n.a. |
| T 4 | 23 28 | 22 44 | 0 54 | 20 11 | 3 10 | 13 58 | 0 7 | 24 13 | 1 6 | 0 20 | 1 28 | 6 17 | 2 29 | 23 12 | 0 9 | 22 53 | 0 46 | 16 8 | 5 22 | 23 35 | 23 35 | 19 28 | | n.a. |
| W 5 | 23 25 | 23 43 | 0s28 | 20 27 | 2 56 | 13 34 | 0 1 | 24 10 | 1 6 | 0 22 | 1 28 | 6 17 | 2 29 | 23 12 | 0 9 | 22 53 | 0 46 | 16 8 | 5 22 | 23 35 | 23 36 | 19 27 | | n.a. |
| T 6 | 23 21 | 23 2 | 1 48 | 20 44 | 2 42 | 13 9 | 0s 5 | 24 6 | 1 6 | 0 24 | 1 29 | 6 17 | 2 29 | 23 12 | 0 9 | 22 53 | 0 46 | 16 8 | 5 22 | 23 35 | 23 36 | 19 25 | | n.a. |
| F 7 | 23 16 | 20 41 | 3 2 | 21 1 | 2 27 | 12 45 | 0 12 | 24 2 | 1 7 | 0 25 | 1 29 | 6 18 | 2 29 | 23 13 | 0 9 | 22 53 | 0 46 | 16 8 | 5 22 | 23 35 | 23 36 | 19 24 | | n.a. |
| S 8 | 23 12 | 16 58 | 4 2 | 21 19 | 2 11 | 12 20 | 0 18 | 23 58 | 1 7 | 0 26 | 1 29 | 6 18 | 2 30 | 23 13 | 0 9 | 22 53 | 0 46 | 16 8 | 5 22 | 23 35 | 23 36 | 19 23 | | n.a. |
| S 9 | 23 6 | 12 15 | 4 46 | 21 36 | 1 56 | 11 55 | 0 25 | 23 54 | 1 7 | 0 28 | 1 29 | 6 18 | 2 30 | 23 13 | 0 9 | 22 53 | 0 46 | 16 9 | 5 23 | 23 35 | 23 36 | 19 21 | | n.a. |
| M10 | 23 1 | 6 56 | 5 11 | 21 54 | 1 41 | 11 29 | 0 32 | 23 49 | 1 7 | 0 29 | 1 30 | 6 19 | 2 30 | 23 14 | 0 9 | 22 53 | 0 46 | 16 9 | 5 23 | 23 35 | 23 36 | 19 20 | | n.a. |
| T 11 | 22 55 | 1 24 | 5 17 | 22 12 | 1 25 | 11 4 | 0 39 | 23 44 | 1 7 | 0 30 | 1 30 | 6 19 | 2 31 | 23 14 | 0 9 | 22 53 | 0 46 | 16 9 | 5 23 | 23 35 | 23 36 | 19 18 | | n.a. |
| W12 | 22 48 | 4n 4 | 5 4 | 22 29 | 1 10 | 10 39 | 0 46 | 23 40 | 1 7 | 0 31 | 1 30 | 6 20 | 2 31 | 23 14 | 0 9 | 22 53 | 0 46 | 16 9 | 5 23 | 23 35 | 23 36 | 19 17 | | n.a. |
| T 13 | 22 41 | 9 13 | 4 35 | 22 46 | 0 55 | 10 14 | 0 53 | 23 35 | 1 7 | 0 32 | 1 30 | 6 20 | 2 31 | 23 15 | 0 9 | 22 53 | 0 46 | 16 9 | 5 23 | 23 35 | 23 37 | 19 15 | | n.a. |
| F 14 | 22 34 | 13 50 | 3 53 | 23 1 | 0 41 | 9 48 | 1 0 | 23 30 | 1 8 | 0 33 | 1 31 | 6 21 | 2 31 | 23 15 | 0 9 | 22 53 | 0 46 | 16 9 | 5 23 | 23 35 | 23 37 | 19 14 | | n.a. |
| S 15 | 22 26 | 17 44 | 2 59 | 23 16 | 0 26 | 9 23 | 1 8 | 23 24 | 1 8 | 0 34 | 1 31 | 6 22 | 2 32 | 23 15 | 0 9 | 22 53 | 0 46 | 16 10 | 5 23 | 23 35 | 23 37 | 19 13 | | n.a. |
| S 16 | 22 18 | 20 45 | 1 58 | 23 29 | 0 13 | 8 58 | 1 16 | 23 19 | 1 8 | 0 35 | 1 31 | 6 22 | 2 32 | 23 16 | 0 9 | 22 54 | 0 46 | 16 10 | 5 23 | 23 35 | 23 37 | 19 11 | | n.a. |
| M17 | 22 10 | 22 46 | 0 53 | 23 40 | 0n 1 | 8 32 | 1 23 | 23 13 | 1 8 | 0 35 | 1 32 | 6 23 | 2 32 | 23 16 | 0 9 | 22 54 | 0 46 | 16 10 | 5 23 | 23 35 | 23 37 | 19 10 | | n.a. |
| T 18 | 22 1 | 23 40 | 0n14 | 23 50 | 0 13 | 8 7 | 1 31 | 23 7 | 1 8 | 0 36 | 1 32 | 6 24 | 2 33 | 23 16 | 0 9 | 22 54 | 0 46 | 16 10 | 5 23 | 23 35 | 23 37 | 19 8 | | n.a. |
| W19 | 21 52 | 23 28 | 1 19 | 23 57 | 0 25 | 7 42 | 1 40 | 23 1 | 1 8 | 0 37 | 1 32 | 6 24 | 2 33 | 23 17 | 0 9 | 22 54 | 0 46 | 16 10 | 5 23 | 23 35 | 23 37 | 19 7 | | n.a. |
| T 20 | 21 42 | 22 11 | 2 21 | 24 2 | 0 37 | 7 16 | 1 48 | 22 55 | 1 8 | 0 37 | 1 32 | 6 25 | 2 33 | 23 17 | 0 9 | 22 54 | 0 46 | 16 10 | 5 23 | 23 35 | 23 37 | 19 5 | | n.a. |
| F 21 | 21 32 | 19 56 | 3 16 | 24 4 | 0 47 | 6 51 | 1 56 | 22 49 | 1 8 | 0 37 | 1 33 | 6 26 | 2 33 | 23 17 | 0 9 | 22 54 | 0 46 | 16 11 | 5 23 | 23 35 | 23 38 | 19 4 | | n.a. |
| S 22 | 21 22 | 16 51 | 4 2 | 24 4 | 0 57 | 6 26 | 2 5 | 22 42 | 1 9 | 0 38 | 1 33 | 6 27 | 2 34 | 23 18 | 0 9 | 22 54 | 0 46 | 16 11 | 5 23 | 23 35 | 23 38 | 19 2 | | n.a. |
| S 23 | 21 11 | 13 6 | 4 38 | 24 2 | 1 5 | 6 1 | 2 14 | 22 35 | 1 9 | 0 38 | 1 33 | 6 28 | 2 34 | 23 18 | 0 9 | 22 54 | 0 46 | 16 11 | 5 23 | 23 35 | 23 38 | 19 1 | | n.a. |
| M24 | 21 0 | 8 49 | 5 2 | 23 57 | 1 13 | 5 37 | 2 23 | 22 29 | 1 9 | 0 38 | 1 34 | 6 29 | 2 34 | 23 18 | 0 9 | 22 54 | 0 46 | 16 11 | 5 23 | 23 35 | 23 38 | 18 59 | | n.a. |
| T 25 | 20 49 | 4 10 | 5 14 | 23 49 | 1 20 | 5 12 | 2 32 | 22 21 | 1 9 | 0 38 | 1 34 | 6 30 | 2 34 | 23 18 | 0 9 | 22 54 | 0 46 | 16 11 | 5 23 | 23 35 | 23 38 | 18 58 | | n.a. |
| W26 | 20 37 | 0s42 | 5 11 | 23 38 | 1 27 | 4 48 | 2 41 | 22 14 | 1 9 | 0 38 | 1 34 | 6 31 | 2 35 | 23 19 | 0 10 | 22 54 | 0 46 | 16 11 | 5 23 | 23 35 | 23 38 | 18 56 | | n.a. |
| T 27 | 20 25 | 5 39 | 4 54 | 23 25 | 1 32 | 4 24 | 2 50 | 22 7 | 1 9 | 0 38 | 1 34 | 6 32 | 2 35 | 23 19 | 0 10 | 22 54 | 0 46 | 16 11 | 5 23 | 23 35 | 23 38 | 18 55 | | n.a. |
| F 28 | 20 12 | 10 29 | 4 23 | 23 9 | 1 36 | 4 0 | 3 0 | 21 59 | 1 9 | 0 38 | 1 35 | 6 33 | 2 35 | 23 19 | 0 10 | 22 54 | 0 46 | 16 11 | 5 23 | 23 35 | 23 38 | 18 53 | | n.a. |
| S 29 | 19 59 | 15 0 | 3 36 | 22 50 | 1 40 | 3 36 | 3 9 | 21 52 | 1 9 | 0 38 | 1 35 | 6 34 | 2 36 | 23 20 | 0 10 | 22 54 | 0 46 | 16 12 | 5 23 | 23 35 | 23 38 | 18 52 | | n.a. |
| S 30 | 19 46 | 18 54 | 2 37 | 22 30 | 1 43 | 3 13 | 3 19 | 21 44 | 1 9 | 0 37 | 1 35 | 6 36 | 2 36 | 23 20 | 0 10 | 22 54 | 0 46 | 16 12 | 5 23 | 23 35 | 23 38 | 18 50 | | n.a. |
| M31 | 19n33 | 21s52 | 1n26 | 22n 7 | 1n45 | 2n50 | 3s29 | 21n36 | 1n 9 | 0n37 | 1s36 | 6s37 | 2s36 | 23n20 | 0n10 | 22n54 | 0s46 | 16n12 | 5s23 | 23n35 | 23n39 | 18n49 | | n.a. |

Julian Day Number = 1697497.5, Delta T = 03h07m17s
Ecliptic obliquity = 23°42'09, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°58'06, Lahiri = - 4°51'06 Julian Calendar 1 July 66 BCE == Greg. Calendar 29 June 066 BCE

The year -65 astronomical counting style corresponds to year 066 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 66 BCE
# geocentric

## AUGUST 66 BCE (-65) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 25 22 | 4♌38'47 | 4♉ 5 | 1♌51 | 15♍25 | 0♌11 | 5°R10 | 19°R24 | 18♊17 | 26♊52 | 5♊46 | 5°R31 | 3♋55 | 18♌52 | n.a. | T 1 |
| W 2 | 20 29 18 | 5°36'49 | 18°55 | 3°48 | 15°58 | 0°50 | 5♈ 9 | 19♓21 | 18°19 | 26°54 | 5°47 | 5♋30 | 3°51 | 18°59 | n.a. | W 2 |
| T 3 | 20 33 15 | 6°34'53 | 4♒ 2 | 5°46 | 16°30 | 1°28 | 5° 8 | 19°18 | 18°22 | 26°55 | 5°48 | 5°28 | 3°48 | 19° 6 | n.a. | T 3 |
| F 4 | 20 37 11 | 7°32'59 | 19°16 | 7°42 | 17° 1 | 2° 6 | 5° 7 | 19°15 | 18°25 | 26°57 | 5°49 | 5°25 | 3°45 | 19°13 | n.a. | F 4 |
| S 5 | 20 41 8 | 8°31'06 | 4♓28 | 9°37 | 17°30 | 2°44 | 5° 5 | 19°12 | 18°27 | 26°59 | 5°50 | 5°20 | 3°42 | 19°19 | n.a. | S 5 |
| S 6 | 20 45 5 | 9°29'15 | 19°28 | 11°32 | 17°58 | 3°23 | 5° 4 | 19° 9 | 18°30 | 27° 1 | 5°50 | 5°16 | 3°39 | 19°26 | n.a. | S 6 |
| M 7 | 20 49 1 | 10°27'26 | 4♈ 7 | 13°25 | 18°24 | 4° 1 | 5° 2 | 19° 6 | 18°33 | 27° 3 | 5°51 | 5°11 | 3°35 | 19°33 | n.a. | M 7 |
| T 8 | 20 52 58 | 11°25'40 | 18°20 | 15°17 | 18°48 | 4°39 | 5° 0 | 19° 3 | 18°35 | 27° 4 | 5°52 | 5° 8 | 3°32 | 19°39 | n.a. | T 8 |
| W 9 | 20 56 54 | 12°23'55 | 2♉ 6 | 17° 8 | 19°11 | 5°17 | 4°58 | 19° 0 | 18°38 | 27° 6 | 5°52 | 5° 6 | 3°29 | 19°46 | n.a. | W 9 |
| T 10 | 21 0 51 | 13°22'13 | 15°26 | 18°58 | 19°32 | 5°56 | 4°56 | 18°56 | 18°40 | 27° 8 | 5°53 | 5°D 5 | 3°26 | 19°53 | n.a. | T 10 |
| F 11 | 21 4 47 | 14°20'33 | 28°20 | 20°47 | 19°52 | 6°34 | 4°53 | 18°53 | 18°42 | 27° 9 | 5°54 | 5° 6 | 3°23 | 19°59 | n.a. | F 11 |
| S 12 | 21 8 44 | 15°18'55 | 10♊55 | 22°35 | 20° 9 | 7°12 | 4°50 | 18°50 | 18°45 | 27°11 | 5°54 | 5° 7 | 3°20 | 20° 6 | n.a. | S 12 |
| S 13 | 21 12 40 | 16°17'19 | 23°13 | 24°21 | 20°24 | 7°51 | 4°47 | 18°46 | 18°47 | 27°13 | 5°55 | 5° 9 | 3°16 | 20°13 | n.a. | S 13 |
| M14 | 21 16 37 | 17°15'46 | 5♋19 | 26° 6 | 20°38 | 8°29 | 4°44 | 18°42 | 18°49 | 27°14 | 5°56 | 5°R10 | 3°13 | 20°19 | n.a. | M14 |
| T 15 | 21 20 34 | 18°14'15 | 17°16 | 27°51 | 20°50 | 9° 7 | 4°41 | 18°39 | 18°52 | 27°16 | 5°56 | 5° 9 | 3°10 | 20°26 | n.a. | T 15 |
| W16 | 21 24 30 | 19°12'46 | 29° 9 | 29°34 | 20°59 | 9°46 | 4°37 | 18°35 | 18°54 | 27°17 | 5°57 | 5° 6 | 3° 7 | 20°33 | n.a. | W16 |
| T 17 | 21 28 27 | 20°11'18 | 10♌58 | 1♍16 | 21° 6 | 10°24 | 4°34 | 18°31 | 18°56 | 27°19 | 5°57 | 5° 1 | 3° 4 | 20°39 | n.a. | T 17 |
| F 18 | 21 32 23 | 21° 9'53 | 22°48 | 2°57 | 21°11 | 11° 3 | 4°30 | 18°27 | 18°58 | 27°20 | 5°58 | 4°54 | 3° 0 | 20°46 | n.a. | F 18 |
| S 19 | 21 36 20 | 22° 8'30 | 4♍39 | 4°37 | 21°14 | 11°41 | 4°26 | 18°23 | 19° 0 | 27°22 | 5°58 | 4°45 | 2°57 | 20°53 | n.a. | S 19 |
| S 20 | 21 40 16 | 23° 7'09 | 16°32 | 6°16 | 21°R15 | 12°19 | 4°21 | 18°19 | 19° 2 | 27°23 | 5°59 | 4°36 | 2°54 | 21° 0 | n.a. | S 20 |
| M21 | 21 44 13 | 24° 5'50 | 28°31 | 7°54 | 21°13 | 12°58 | 4°17 | 18°15 | 19° 4 | 27°25 | 5°59 | 4°27 | 2°51 | 21° 6 | n.a. | M21 |
| T 22 | 21 48 9 | 25° 4'32 | 10♎37 | 9°30 | 21° 9 | 13°36 | 4°12 | 18°11 | 19° 6 | 27°26 | 6° 0 | 4°18 | 2°48 | 21°13 | n.a. | T 22 |
| W23 | 21 52 6 | 26° 3'17 | 22°52 | 11° 6 | 21° 2 | 14°14 | 4° 8 | 18° 7 | 19° 8 | 27°27 | 6° 0 | 4°11 | 2°45 | 21°20 | n.a. | W23 |
| T 24 | 21 56 2 | 27° 2'03 | 5♏19 | 12°41 | 20°53 | 14°53 | 4° 3 | 18° 2 | 19°10 | 27°29 | 6° 0 | 4° 7 | 2°41 | 21°26 | n.a. | T 24 |
| F 25 | 21 59 59 | 28° 0'52 | 18° 2 | 14°15 | 20°42 | 15°31 | 3°58 | 17°58 | 19°12 | 27°30 | 6° 1 | 4° 4 | 2°38 | 21°33 | n.a. | F 25 |
| S 26 | 22 3 56 | 28°59'42 | 1♐ 3 | 15°48 | 20°28 | 16°10 | 3°52 | 17°54 | 19°14 | 27°31 | 6° 1 | 4°D 4 | 2°35 | 21°40 | n.a. | S 26 |
| S 27 | 22 7 52 | 29°58'34 | 14°28 | 17°20 | 20°12 | 16°48 | 3°47 | 17°49 | 19°15 | 27°32 | 6° 1 | 4° 5 | 2°32 | 21°46 | n.a. | S 27 |
| M28 | 22 11 49 | 0♑57'28 | 28°17 | 18°51 | 19°54 | 17°27 | 3°41 | 17°45 | 19°17 | 27°34 | 6° 2 | 4°R 5 | 2°29 | 21°53 | n.a. | M28 |
| T 29 | 22 15 45 | 1°56'23 | 12♉33 | 20°21 | 19°33 | 18° 5 | 3°35 | 17°40 | 19°19 | 27°35 | 6° 2 | 4° 5 | 2°26 | 22° 0 | n.a. | T 29 |
| W30 | 22 19 42 | 2°55'21 | 27°14 | 21°50 | 19°10 | 18°44 | 3°30 | 17°36 | 19°20 | 27°36 | 6° 2 | 4° 3 | 2°22 | 22° 6 | n.a. | W30 |
| T 31 | 22 23 38 | 3♑54'20 | 12♒15 | 23♑18 | 18♑45 | 19♌22 | 3♈24 | 17♓31 | 19♊22 | 27♊37 | 6♊ 3 | 3♋59 | 2♋19 | 22♌13 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| T 1 | 19n19 | 23s30 | 0n 8 | 21n42 | 1n47 | 2n27 | 3s39 | 21n28 | 1n 9 | 0n36 | 1s36 | 6s38 | 2s36 | 23n20 | 0n10 | 22n54 | 0s46 | 16n12 | 5s23 | 23n35 | 23n39 | 18n47 | | n.a. | T 1 |
| W 2 | 19 4 | 23 33 | 1s13 | 21 15 | 1 47 | 2 5 | 3 49 | 21 19 | 1 10 | 0 36 | 1 36 | 6 39 | 2 37 | 23 21 | 0 10 | 22 54 | 0 46 | 16 12 | 5 23 | 23 35 | 23 39 | 18 46 | | n.a. | W 2 |
| T 3 | 18 50 | 21 53 | 2 30 | 20 46 | 1 47 | 1 43 | 3 59 | 21 11 | 1 10 | 0 35 | 1 36 | 6 41 | 2 37 | 23 21 | 0 10 | 22 54 | 0 46 | 16 12 | 5 24 | 23 35 | 23 39 | 18 44 | | n.a. | T 3 |
| F 4 | 18 35 | 18 38 | 3 37 | 20 16 | 1 47 | 1 22 | 4 9 | 21 2 | 1 10 | 0 35 | 1 37 | 6 42 | 2 37 | 23 21 | 0 10 | 22 54 | 0 46 | 16 12 | 5 24 | 23 35 | 23 39 | 18 42 | | n.a. | F 4 |
| S 5 | 18 20 | 14 7 | 4 28 | 19 44 | 1 46 | 1 1 | 4 20 | 20 54 | 1 10 | 0 34 | 1 37 | 6 43 | 2 37 | 23 21 | 0 10 | 22 55 | 0 46 | 16 12 | 5 24 | 23 36 | 23 39 | 18 41 | | n.a. | S 5 |
| S 6 | 18 4 | 8 48 | 5 0 | 19 10 | 1 44 | 0 40 | 4 30 | 20 45 | 1 10 | 0 33 | 1 37 | 6 45 | 2 37 | 23 22 | 0 10 | 22 55 | 0 46 | 16 12 | 5 24 | 23 36 | 23 39 | 18 39 | | n.a. | S 6 |
| M 7 | 17 49 | 3 6 | 5 12 | 18 36 | 1 42 | 0 20 | 4 41 | 20 36 | 1 10 | 0 32 | 1 37 | 6 46 | 2 38 | 23 22 | 0 10 | 22 55 | 0 46 | 16 12 | 5 24 | 23 36 | 23 39 | 18 38 | | n.a. | M 7 |
| T 8 | 17 33 | 2n36 | 5 3 | 18 0 | 1 39 | 0 1 | 4 51 | 20 26 | 1 10 | 0 31 | 1 38 | 6 48 | 2 38 | 23 22 | 0 10 | 22 55 | 0 46 | 16 12 | 5 24 | 23 36 | 23 39 | 18 36 | | n.a. | T 8 |
| W 9 | 17 16 | 7 59 | 4 38 | 17 23 | 1 36 | 0s18 | 5 2 | 20 17 | 1 10 | 0 30 | 1 38 | 6 49 | 2 38 | 23 22 | 0 10 | 22 55 | 0 46 | 16 12 | 5 24 | 23 36 | 23 39 | 18 35 | | n.a. | W 9 |
| T 10 | 16 59 | 12 51 | 3 58 | 16 46 | 1 32 | 0 36 | 5 13 | 20 8 | 1 10 | 0 29 | 1 38 | 6 51 | 2 38 | 23 23 | 0 10 | 22 55 | 0 46 | 16 12 | 5 24 | 23 36 | 23 39 | 18 33 | | n.a. | T 10 |
| F 11 | 16 42 | 16 58 | 3 7 | 16 7 | 1 28 | 0 54 | 5 24 | 19 58 | 1 10 | 0 27 | 1 38 | 6 52 | 2 39 | 23 23 | 0 10 | 22 55 | 0 46 | 16 13 | 5 24 | 23 36 | 23 40 | 18 31 | | n.a. | F 11 |
| S 12 | 16 25 | 20 13 | 2 8 | 15 28 | 1 24 | 1 10 | 5 34 | 19 48 | 1 10 | 0 26 | 1 39 | 6 54 | 2 39 | 23 23 | 0 10 | 22 55 | 0 46 | 16 13 | 5 24 | 23 36 | 23 40 | 18 30 | | n.a. | S 12 |
| S 13 | 16 8 | 22 27 | 1 4 | 14 47 | 1 19 | 1 26 | 5 45 | 19 38 | 1 10 | 0 25 | 1 39 | 6 55 | 2 39 | 23 23 | 0 10 | 22 55 | 0 46 | 16 13 | 5 24 | 23 36 | 23 40 | 18 28 | | n.a. | S 13 |
| M14 | 15 50 | 23 37 | 0n 1 | 14 7 | 1 14 | 1 42 | 5 56 | 19 28 | 1 10 | 0 23 | 1 39 | 6 57 | 2 39 | 23 23 | 0 10 | 22 55 | 0 46 | 16 13 | 5 24 | 23 36 | 23 40 | 18 27 | | n.a. | M14 |
| T 15 | 15 32 | 23 39 | 1 5 | 13 26 | 1 9 | 1 56 | 6 7 | 19 18 | 1 10 | 0 22 | 1 39 | 6 59 | 2 39 | 23 24 | 0 10 | 22 55 | 0 46 | 16 13 | 5 24 | 23 36 | 23 40 | 18 25 | | n.a. | T 15 |
| W16 | 15 13 | 22 37 | 2 6 | 12 44 | 1 3 | 2 10 | 6 17 | 19 8 | 1 10 | 0 20 | 1 40 | 7 0 | 2 40 | 23 24 | 0 10 | 22 55 | 0 46 | 16 13 | 5 24 | 23 36 | 23 40 | 18 23 | | n.a. | W16 |
| T 17 | 14 55 | 20 34 | 3 1 | 12 2 | 0 58 | 2 22 | 6 28 | 18 57 | 1 10 | 0 18 | 1 40 | 7 2 | 2 40 | 23 24 | 0 10 | 22 55 | 0 46 | 16 13 | 5 24 | 23 36 | 23 40 | 18 22 | | n.a. | T 17 |
| F 18 | 14 36 | 17 39 | 3 48 | 11 20 | 0 52 | 2 34 | 6 38 | 18 47 | 1 10 | 0 17 | 1 40 | 7 4 | 2 40 | 23 24 | 0 10 | 22 55 | 0 46 | 16 13 | 5 24 | 23 37 | 23 40 | 18 20 | | n.a. | F 18 |
| S 19 | 14 17 | 14 2 | 4 26 | 10 38 | 0 45 | 2 44 | 6 49 | 18 36 | 1 11 | 0 15 | 1 40 | 7 5 | 2 40 | 23 24 | 0 10 | 22 55 | 0 46 | 16 13 | 5 25 | 23 37 | 23 40 | 18 19 | | n.a. | S 19 |
| S 20 | 13 58 | 9 50 | 4 52 | 9 55 | 0 39 | 2 54 | 6 59 | 18 25 | 1 11 | 0 13 | 1 41 | 7 7 | 2 40 | 23 25 | 0 10 | 22 55 | 0 46 | 16 13 | 5 25 | 23 37 | 23 40 | 18 17 | | n.a. | S 20 |
| M21 | 13 38 | 5 15 | 5 5 | 9 12 | 0 32 | 3 2 | 7 9 | 18 14 | 1 11 | 0 11 | 1 41 | 7 9 | 2 40 | 23 25 | 0 10 | 22 55 | 0 46 | 16 13 | 5 25 | 23 38 | 23 40 | 18 15 | | n.a. | M21 |
| T 22 | 13 18 | 0 25 | 5 5 | 8 29 | 0 26 | 3 10 | 7 18 | 18 3 | 1 11 | 0 9 | 1 41 | 7 11 | 2 41 | 23 25 | 0 10 | 22 55 | 0 46 | 16 13 | 5 25 | 23 38 | 23 40 | 18 14 | | n.a. | T 22 |
| W23 | 12 58 | 4s30 | 4 51 | 7 46 | 0 19 | 3 16 | 7 28 | 17 52 | 1 11 | 0 7 | 1 41 | 7 13 | 2 41 | 23 25 | 0 10 | 22 55 | 0 46 | 16 13 | 5 25 | 23 38 | 23 40 | 18 12 | | n.a. | W23 |
| T 24 | 12 38 | 9 19 | 4 23 | 7 3 | 0 12 | 3 20 | 7 37 | 17 40 | 1 11 | 0 5 | 1 41 | 7 14 | 2 41 | 23 25 | 0 10 | 22 55 | 0 46 | 16 13 | 5 25 | 23 38 | 23 41 | 18 10 | | n.a. | T 24 |
| F 25 | 12 18 | 13 51 | 3 41 | 6 20 | 0 5 | 3 24 | 7 46 | 17 29 | 1 11 | 0 2 | 1 42 | 7 16 | 2 41 | 23 25 | 0 10 | 22 55 | 0 46 | 16 13 | 5 25 | 23 38 | 23 41 | 18 9 | | n.a. | F 25 |
| S 26 | 11 57 | 17 52 | 2 48 | 5 37 | 0s 3 | 3 26 | 7 54 | 17 17 | 1 11 | 0 0 | 1 42 | 7 18 | 2 41 | 23 26 | 0 10 | 22 55 | 0 46 | 16 13 | 5 25 | 23 38 | 23 41 | 18 7 | | n.a. | S 26 |
| S 27 | 11 36 | 21 5 | 1 43 | 4 54 | 0 10 | 3 27 | 8 1 | 17 6 | 1 11 | 0s 2 | 1 42 | 7 20 | 2 41 | 23 26 | 0 10 | 22 55 | 0 46 | 16 13 | 5 25 | 23 38 | 23 41 | 18 5 | | n.a. | S 27 |
| M28 | 11 15 | 23 10 | 0 31 | 4 12 | 0 17 | 3 26 | 8 9 | 16 54 | 1 11 | 0 5 | 1 42 | 7 22 | 2 41 | 23 26 | 0 10 | 22 55 | 0 46 | 16 13 | 5 25 | 23 38 | 23 41 | 18 4 | | n.a. | M28 |
| T 29 | 10 54 | 23 51 | 0s45 | 3 29 | 0 25 | 3 24 | 8 15 | 16 42 | 1 11 | 0 7 | 1 42 | 7 24 | 2 41 | 23 26 | 0 10 | 22 55 | 0 46 | 16 13 | 5 25 | 23 38 | 23 41 | 18 2 | | n.a. | T 29 |
| W30 | 10 33 | 22 55 | 2 0 | 2 47 | 0 32 | 3 21 | 8 21 | 16 30 | 1 11 | 0 10 | 1 43 | 7 26 | 2 42 | 23 26 | 0 10 | 22 55 | 0 46 | 16 13 | 5 25 | 23 38 | 23 41 | 18 0 | | n.a. | W30 |
| T 31 | 10n11 | 20s20 | 3s 9 | 2n 5 | 0s40 | 3s16 | 8s27 | 16n18 | 1n11 | 0s12 | 1s43 | 7s27 | 2s42 | 23n26 | 0n10 | 22n55 | 0s46 | 16n13 | 5s25 | 23n39 | 23n41 | 17n59 | | n.a. | T 31 |

Julian Day Number = 1697528.5, Delta T = 03h07m16s
Ecliptic obliquity = 23°42'10, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°58'02, Lahiri = - 4°51'01 Julian Calendar 1 Aug. 66 BCE == Greg. Calendar 30 July 066 BCE

The year -65 astronomical counting style corresponds to year 066 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 66 BCE
# geocentric

## SEPTEMBER 66 BCE (-65) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 22 27 35 | 4♍53'22 | 27♒29 | 24♍45 | 18°R18 | 20♌ 1 | 3°R17 | 17°R27 | 19♊23 | 27♊38 | 6♊ 3 | 3°R52 | 2♋16 | 22♌20 | n.a. | F 1 |
| S 2 | 22 31 31 | 5°52'25 | 12♓47 | 26°11 | 17♍50 | 20°39 | 3♈11 | 17♓22 | 19°25 | 27°39 | 6° 3 | 3♋43 | 2°13 | 22°27 | n.a. | S 2 |
| S 3 | 22 35 28 | 6°51'31 | 27°55 | 27°36 | 17°19 | 21°18 | 3° 5 | 17°18 | 19°26 | 27°40 | 6° 3 | 3°34 | 2°10 | 22°33 | n.a. | S 3 |
| M 4 | 22 39 25 | 7°50'38 | 12♈45 | 29° 0 | 16°47 | 21°56 | 2°58 | 17°13 | 19°27 | 27°41 | 6° 3 | 3°24 | 2° 6 | 22°40 | n.a. | M 4 |
| T 5 | 22 43 21 | 8°49'48 | 27°10 | 0♎23 | 16°14 | 22°35 | 2°51 | 17° 8 | 19°29 | 27°42 | 6° 3 | 3°16 | 2° 3 | 22°47 | n.a. | T 5 |
| W 6 | 22 47 18 | 9°49'01 | 11♉ 4 | 1°45 | 15°39 | 23°13 | 2°44 | 17° 4 | 19°30 | 27°43 | 6° 3 | 3°11 | 2° 0 | 22°53 | n.a. | W 6 |
| T 7 | 22 51 14 | 10°48'16 | 24°29 | 3° 6 | 15° 4 | 23°52 | 2°37 | 16°59 | 19°31 | 27°44 | 6° 3 | 3° 7 | 1°57 | 23° 0 | n.a. | T 7 |
| F 8 | 22 55 11 | 11°47'33 | 7♊26 | 4°26 | 14°28 | 24°30 | 2°30 | 16°54 | 19°32 | 27°45 | 6° 3 | 3°D 6 | 1°54 | 23° 7 | n.a. | F 8 |
| S 9 | 22 59 7 | 12°46'53 | 19°59 | 5°44 | 13°52 | 25° 9 | 2°23 | 16°49 | 19°33 | 27°46 | 6°R 3 | 3° 6 | 1°51 | 23°13 | n.a. | S 9 |
| S 10 | 23 3 4 | 13°46'16 | 2♋14 | 7° 1 | 13°15 | 25°48 | 2°16 | 16°45 | 19°34 | 27°47 | 6° 3 | 3°R 7 | 1°47 | 23°20 | n.a. | S 10 |
| M11 | 23 7 0 | 14°45'40 | 14°16 | 8°17 | 12°38 | 26°26 | 2° 8 | 16°40 | 19°35 | 27°48 | 6° 3 | 3° 6 | 1°44 | 23°27 | n.a. | M11 |
| T 12 | 23 10 57 | 15°45'07 | 26° 9 | 9°31 | 12° 2 | 27° 5 | 2° 1 | 16°35 | 19°36 | 27°48 | 6° 3 | 3° 4 | 1°41 | 23°33 | n.a. | T 12 |
| W13 | 23 14 54 | 16°44'37 | 7♌58 | 10°44 | 11°26 | 27°43 | 1°53 | 16°30 | 19°37 | 27°49 | 6° 3 | 2°59 | 1°38 | 23°40 | n.a. | W13 |
| T 14 | 23 18 50 | 17°44'09 | 19°46 | 11°55 | 10°51 | 28°22 | 1°46 | 16°25 | 19°38 | 27°50 | 6° 3 | 2°51 | 1°35 | 23°47 | n.a. | T 14 |
| F 15 | 23 22 47 | 18°43'42 | 1♍37 | 13° 4 | 10°17 | 29° 1 | 1°38 | 16°21 | 19°39 | 27°50 | 6° 3 | 2°40 | 1°32 | 23°54 | n.a. | F 15 |
| S 16 | 23 26 43 | 19°43'18 | 13°33 | 14°11 | 9°45 | 29°39 | 1°30 | 16°16 | 19°39 | 27°51 | 6° 3 | 2°27 | 1°28 | 24° 0 | n.a. | S 16 |
| S 17 | 23 30 40 | 20°42'57 | 25°34 | 15°16 | 9°13 | 0♍18 | 1°22 | 16°11 | 19°40 | 27°52 | 6° 3 | 2°13 | 1°25 | 24° 7 | n.a. | S 17 |
| M18 | 23 34 36 | 21°42'37 | 7♎43 | 16°19 | 8°43 | 0°57 | 1°14 | 16° 6 | 19°40 | 27°52 | 6° 3 | 1°59 | 1°22 | 24°14 | n.a. | M18 |
| T 19 | 23 38 33 | 22°42'19 | 19°59 | 17°19 | 8°15 | 1°36 | 1° 6 | 16° 2 | 19°41 | 27°53 | 6° 2 | 1°46 | 1°19 | 24°20 | n.a. | T 19 |
| W20 | 23 42 29 | 23°42'04 | 2♏24 | 18°17 | 7°49 | 2°14 | 0°58 | 15°57 | 19°42 | 27°53 | 6° 2 | 1°35 | 1°16 | 24°27 | n.a. | W20 |
| T 21 | 23 46 26 | 24°41'50 | 15° 0 | 19°11 | 7°25 | 2°53 | 0°50 | 15°52 | 19°42 | 27°54 | 6° 2 | 1°27 | 1°12 | 24°34 | n.a. | T 21 |
| F 22 | 23 50 22 | 25°41'38 | 27°48 | 20° 2 | 7° 3 | 3°32 | 0°42 | 15°48 | 19°42 | 27°54 | 6° 2 | 1°22 | 1° 9 | 24°40 | n.a. | F 22 |
| S 23 | 23 54 19 | 26°41'28 | 10♐51 | 20°49 | 6°43 | 4°11 | 0°34 | 15°43 | 19°43 | 27°54 | 6° 1 | 1°20 | 1° 6 | 24°47 | n.a. | S 23 |
| S 24 | 23 58 16 | 27°41'20 | 24°11 | 21°32 | 6°25 | 4°49 | 0°26 | 15°38 | 19°43 | 27°55 | 6° 1 | 1°19 | 1° 3 | 24°54 | n.a. | S 24 |
| M25 | 0 2 12 | 28°41'13 | 7♑51 | 22°11 | 6°10 | 5°28 | 0°18 | 15°34 | 19°43 | 27°55 | 6° 1 | 1°19 | 1° 0 | 25° 0 | n.a. | M25 |
| T 26 | 0 6 9 | 29°41'09 | 21°52 | 22°44 | 5°58 | 6° 7 | 0°10 | 15°29 | 19°43 | 27°55 | 6° 0 | 1°19 | 0°57 | 25° 7 | n.a. | T 26 |
| W27 | 0 10 5 | 0♎41'06 | 6♒16 | 23°12 | 5°47 | 6°46 | 0° 2 | 15°25 | 19°43 | 27°56 | 6° 0 | 1°16 | 0°53 | 25°14 | n.a. | W27 |
| T 28 | 0 14 2 | 1°41'04 | 20°59 | 23°33 | 5°39 | 7°25 | 29♓54 | 15°20 | 19°44 | 27°56 | 5°59 | 1°10 | 0°50 | 25°21 | n.a. | T 28 |
| F 29 | 0 17 58 | 2°41'05 | 5♓57 | 23°48 | 5°34 | 8° 3 | 29°45 | 15°16 | 19°R44 | 27°56 | 5°59 | 1° 2 | 0°47 | 25°27 | n.a. | F 29 |
| S 30 | 0 21 55 | 3♎41'07 | 21♓ 1 | 23°R55 | 5♍31 | 8♍42 | 29♓37 | 15♓11 | 19♊43 | 27♊56 | 5♊59 | 0♋51 | 0♋44 | 25♌34 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 9n49 | 16s18 | 4s 5 | 1n23 | 0s47 | 3s10 | 8s31 | 16n 5 | 1n11 | 0s15 | 1s43 | 7s29 | 2s42 | 23n26 | 0n10 | 22n55 | 0s46 | 16n13 | 5s25 | 23n39 | 23n41 | 17n57 | | n.a. |
| S 2 | 9 27 | 11 12 | 4 44 | 0 42 | 0 55 | 3 2 | 8 35 | 15 53 | 1 11 | 0 18 | 1 43 | 7 31 | 2 42 | 23 27 | 0 10 | 22 55 | 0 46 | 16 13 | 5 26 | 23 39 | 23 41 | 17 55 | | n.a. |
| S 3 | 9 5 | 5 27 | 5 2 | 0 1 | 1 2 | 2 53 | 8 38 | 15 40 | 1 11 | 0 20 | 1 43 | 7 33 | 2 42 | 23 27 | 0 10 | 22 55 | 0 46 | 16 13 | 5 26 | 23 39 | 23 41 | 17 53 | | n.a. |
| M 4 | 8 43 | 0n30 | 5 0 | 0s40 | 1 10 | 2 42 | 8 40 | 15 28 | 1 11 | 0 23 | 1 43 | 7 35 | 2 42 | 23 27 | 0 10 | 22 55 | 0 46 | 16 12 | 5 26 | 23 40 | 23 41 | 17 52 | | n.a. |
| T 5 | 8 21 | 6 15 | 4 38 | 1 20 | 1 17 | 2 31 | 8 42 | 15 15 | 1 11 | 0 26 | 1 43 | 7 37 | 2 42 | 23 27 | 0 10 | 22 55 | 0 46 | 16 12 | 5 26 | 23 40 | 23 41 | 17 50 | | n.a. |
| W 6 | 7 58 | 11 31 | 4 0 | 2 0 | 1 24 | 2 18 | 8 42 | 15 2 | 1 11 | 0 29 | 1 44 | 7 39 | 2 42 | 23 27 | 0 10 | 22 55 | 0 46 | 16 12 | 5 26 | 23 40 | 23 41 | 17 48 | | n.a. |
| T 7 | 7 36 | 16 1 | 3 10 | 2 39 | 1 32 | 2 4 | 8 41 | 14 49 | 1 11 | 0 32 | 1 44 | 7 41 | 2 42 | 23 27 | 0 10 | 22 55 | 0 46 | 16 12 | 5 26 | 23 40 | 23 41 | 17 47 | | n.a. |
| F 8 | 7 13 | 19 37 | 2 12 | 3 17 | 1 39 | 1 48 | 8 40 | 14 36 | 1 11 | 0 35 | 1 44 | 7 43 | 2 42 | 23 27 | 0 10 | 22 55 | 0 46 | 16 12 | 5 26 | 23 40 | 23 41 | 17 45 | | n.a. |
| S 9 | 6 50 | 22 10 | 1 9 | 3 55 | 1 46 | 1 32 | 8 37 | 14 23 | 1 11 | 0 38 | 1 44 | 7 45 | 2 42 | 23 27 | 0 10 | 22 55 | 0 46 | 16 12 | 5 26 | 23 40 | 23 41 | 17 43 | | n.a. |
| S 10 | 6 27 | 23 36 | 0 5 | 4 33 | 1 53 | 1 15 | 8 34 | 14 10 | 1 11 | 0 41 | 1 44 | 7 47 | 2 42 | 23 28 | 0 10 | 22 55 | 0 46 | 16 12 | 5 26 | 23 40 | 23 41 | 17 41 | | n.a. |
| M11 | 6 4 | 23 54 | 0n59 | 5 9 | 2 0 | 0 57 | 8 29 | 13 57 | 1 11 | 0 44 | 1 44 | 7 49 | 2 43 | 23 28 | 0 10 | 22 55 | 0 46 | 16 12 | 5 26 | 23 40 | 23 41 | 17 40 | | n.a. |
| T 12 | 5 41 | 23 6 | 1 59 | 5 45 | 2 7 | 0 38 | 8 24 | 13 43 | 1 11 | 0 47 | 1 44 | 7 51 | 2 43 | 23 28 | 0 10 | 22 55 | 0 46 | 16 12 | 5 26 | 23 40 | 23 42 | 17 38 | | n.a. |
| W13 | 5 17 | 21 16 | 2 54 | 6 20 | 2 13 | 0 19 | 8 18 | 13 30 | 1 10 | 0 50 | 1 44 | 7 52 | 2 43 | 23 28 | 0 10 | 22 55 | 0 46 | 16 12 | 5 26 | 23 40 | 23 42 | 17 36 | | n.a. |
| T 14 | 4 54 | 18 32 | 3 40 | 6 54 | 2 20 | 0n 1 | 8 11 | 13 16 | 1 10 | 0 53 | 1 44 | 7 54 | 2 43 | 23 28 | 0 10 | 22 55 | 0 46 | 16 12 | 5 26 | 23 40 | 23 42 | 17 34 | | n.a. |
| F 15 | 4 30 | 15 1 | 4 18 | 7 27 | 2 26 | 0 21 | 8 3 | 13 3 | 1 10 | 0 56 | 1 44 | 7 56 | 2 43 | 23 28 | 0 10 | 22 55 | 0 46 | 16 12 | 5 27 | 23 41 | 23 42 | 17 33 | | n.a. |
| S 16 | 4 7 | 10 54 | 4 44 | 7 59 | 2 32 | 0 41 | 7 54 | 12 49 | 1 10 | 0 59 | 1 44 | 7 58 | 2 43 | 23 28 | 0 10 | 22 55 | 0 46 | 16 12 | 5 27 | 23 41 | 23 42 | 17 31 | | n.a. |
| S 17 | 3 43 | 6 20 | 4 58 | 8 29 | 2 37 | 1 1 | 7 45 | 12 35 | 1 10 | 1 3 | 1 45 | 8 0 | 2 43 | 23 28 | 0 10 | 22 55 | 0 46 | 16 11 | 5 27 | 23 41 | 23 42 | 17 29 | | n.a. |
| M18 | 3 19 | 1 28 | 4 58 | 8 59 | 2 42 | 1 22 | 7 35 | 12 21 | 1 10 | 1 6 | 1 45 | 8 2 | 2 43 | 23 28 | 0 10 | 22 55 | 0 46 | 16 11 | 5 27 | 23 41 | 23 42 | 17 27 | | n.a. |
| T 19 | 2 56 | 3s30 | 4 45 | 9 27 | 2 47 | 1 42 | 7 24 | 12 7 | 1 10 | 1 9 | 1 45 | 8 4 | 2 43 | 23 28 | 0 10 | 22 55 | 0 46 | 16 11 | 5 27 | 23 41 | 23 42 | 17 26 | | n.a. |
| W20 | 2 32 | 8 24 | 4 18 | 9 53 | 2 52 | 2 2 | 7 13 | 11 53 | 1 10 | 1 12 | 1 45 | 8 6 | 2 43 | 23 28 | 0 10 | 22 55 | 0 46 | 16 11 | 5 27 | 23 42 | 23 42 | 17 24 | | n.a. |
| T 21 | 2 8 | 13 2 | 3 39 | 10 18 | 2 56 | 2 22 | 7 1 | 11 39 | 1 10 | 1 16 | 1 45 | 8 7 | 2 43 | 23 28 | 0 11 | 22 55 | 0 46 | 16 11 | 5 27 | 23 42 | 23 42 | 17 22 | | n.a. |
| F 22 | 1 44 | 17 10 | 2 47 | 10 41 | 2 59 | 2 41 | 6 49 | 11 25 | 1 10 | 1 19 | 1 45 | 8 9 | 2 43 | 23 28 | 0 11 | 22 55 | 0 46 | 16 11 | 5 27 | 23 42 | 23 42 | 17 20 | | n.a. |
| S 23 | 1 20 | 20 34 | 1 46 | 11 2 | 3 2 | 3 0 | 6 37 | 11 10 | 1 10 | 1 22 | 1 45 | 8 11 | 2 43 | 23 28 | 0 11 | 22 55 | 0 46 | 16 11 | 5 27 | 23 42 | 23 42 | 17 18 | | n.a. |
| S 24 | 0 56 | 22 57 | 0 38 | 11 20 | 3 5 | 3 19 | 6 24 | 10 56 | 1 10 | 1 25 | 1 45 | 8 13 | 2 43 | 23 29 | 0 11 | 22 55 | 0 46 | 16 11 | 5 27 | 23 42 | 23 42 | 17 17 | | n.a. |
| M25 | 0 32 | 24 2 | 0s34 | 11 36 | 3 6 | 3 36 | 6 11 | 10 41 | 1 10 | 1 29 | 1 45 | 8 15 | 2 42 | 23 29 | 0 11 | 22 55 | 0 46 | 16 11 | 5 27 | 23 42 | 23 42 | 17 15 | | n.a. |
| T 26 | 0 8 | 23 39 | 1 46 | 11 50 | 3 7 | 3 53 | 5 57 | 10 27 | 1 10 | 1 32 | 1 45 | 8 16 | 2 42 | 23 29 | 0 11 | 22 55 | 0 46 | 16 10 | 5 27 | 23 42 | 23 42 | 17 13 | | n.a. |
| W27 | 0s17 | 21 42 | 2 53 | 12 0 | 3 7 | 4 10 | 5 44 | 10 12 | 1 10 | 1 35 | 1 45 | 8 18 | 2 42 | 23 29 | 0 11 | 22 55 | 0 46 | 16 10 | 5 27 | 23 42 | 23 42 | 17 11 | | n.a. |
| T 28 | 0 41 | 18 17 | 3 50 | 12 7 | 3 6 | 4 25 | 5 30 | 9 57 | 1 10 | 1 38 | 1 44 | 8 20 | 2 42 | 23 29 | 0 11 | 22 55 | 0 46 | 16 10 | 5 27 | 23 42 | 23 42 | 17 9 | | n.a. |
| F 29 | 1 5 | 13 38 | 4 32 | 12 11 | 3 4 | 4 40 | 5 17 | 9 43 | 1 10 | 1 41 | 1 44 | 8 21 | 2 42 | 23 29 | 0 11 | 22 55 | 0 46 | 16 10 | 5 27 | 23 42 | 23 42 | 17 7 | | n.a. |
| S 30 | 1s29 | 8s 7 | 4s56 | 12s11 | 3s 1 | 4n54 | 5s 3 | 9n28 | 1n 9 | 1s45 | 1s44 | 8s23 | 2s42 | 23n29 | 0n11 | 22n55 | 0s46 | 16n10 | 5s28 | 23n42 | 23n42 | 17n 6 | | n.a. |

Julian Day Number = 1697559.5, Delta T = 03h07m15s
Ecliptic obliquity = 23°42'11, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°57'58, Lahiri = - 4°50'57 Julian Calendar 1 Sept. 66 BCE == Greg. Calendar 30 Aug. 066 BCE

The year -65 astronomical counting style corresponds to year 066 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 66 BCE
# geocentric

## OCTOBER 66 BCE (-65) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 0 25 51 | 4♎41'11 | 6♈ 1 | 23°R55 | 5°D30 | 9♍21 | 29°R29 | 15°R 7 | 19°R43 | 27♊56 | 5°R58 | 0°R40 | 0♋41 | 25♌41 | n.a. | S 1 |
| M 2 | 0 29 48 | 5°41'17 | 20°49 | 23♎46 | 5♍32 | 10° 0 | 29♓21 | 15♓ 3 | 19♊43 | 27°56 | 5♊58 | 0♋28 | 0°37 | 25°47 | n.a. | M 2 |
| T 3 | 0 33 45 | 6°41'25 | 5♉15 | 23°27 | 5°37 | 10°39 | 29°13 | 14°58 | 19°43 | 27°57 | 5°57 | 0°18 | 0°34 | 25°54 | n.a. | T 3 |
| W 4 | 0 37 41 | 7°41'35 | 19°14 | 23° 0 | 5°43 | 11°18 | 29° 5 | 14°54 | 19°43 | 27°R57 | 5°57 | 0°10 | 0°31 | 26° 1 | n.a. | W 4 |
| T 5 | 0 41 38 | 8°41'48 | 2♊44 | 22°23 | 5°52 | 11°57 | 28°57 | 14°50 | 19°42 | 27°57 | 5°56 | 0° 5 | 0°28 | 26° 7 | n.a. | T 5 |
| F 6 | 0 45 34 | 9°42'02 | 15°46 | 21°36 | 6° 3 | 12°36 | 28°49 | 14°46 | 19°42 | 27°56 | 5°55 | 0° 3 | 0°25 | 26°14 | n.a. | F 6 |
| S 7 | 0 49 31 | 10°42'19 | 28°23 | 20°40 | 6°17 | 13°15 | 28°42 | 14°42 | 19°42 | 27°56 | 5°55 | 0°D 2 | 0°22 | 26°21 | n.a. | S 7 |
| S 8 | 0 53 27 | 11°42'38 | 10♋41 | 19°37 | 6°32 | 13°54 | 28°34 | 14°38 | 19°41 | 27°56 | 5°54 | 0°R 2 | 0°18 | 26°28 | n.a. | S 8 |
| M 9 | 0 57 24 | 12°42'59 | 22°43 | 18°26 | 6°49 | 14°33 | 28°26 | 14°34 | 19°41 | 27°56 | 5°54 | 0° 2 | 0°15 | 26°34 | n.a. | M 9 |
| T 10 | 1 1 20 | 13°43'22 | 4♌36 | 17°10 | 7° 9 | 15°12 | 28°19 | 14°30 | 19°40 | 27°56 | 5°53 | 0° 0 | 0°12 | 26°41 | n.a. | T 10 |
| W11 | 1 5 17 | 14°43'47 | 16°26 | 15°51 | 7°30 | 15°51 | 28°11 | 14°26 | 19°39 | 27°56 | 5°52 | 29♊56 | 0° 9 | 26°48 | n.a. | W11 |
| T 12 | 1 9 14 | 15°44'14 | 28°15 | 14°31 | 7°54 | 16°30 | 28° 4 | 14°22 | 19°39 | 27°55 | 5°51 | 29°49 | 0° 6 | 26°54 | n.a. | T 12 |
| F 13 | 1 13 10 | 16°44'43 | 10♍ 9 | 13°14 | 8°19 | 17° 9 | 27°56 | 14°19 | 19°38 | 27°55 | 5°51 | 29°39 | 0° 3 | 27° 1 | n.a. | F 13 |
| S 14 | 1 17 7 | 17°45'13 | 22°10 | 12° 1 | 8°46 | 17°48 | 27°49 | 14°15 | 19°37 | 27°55 | 5°50 | 29°27 | 29♊59 | 27° 8 | n.a. | S 14 |
| S 15 | 1 21 3 | 18°45'46 | 4♎21 | 10°55 | 9°14 | 18°27 | 27°42 | 14°12 | 19°36 | 27°55 | 5°49 | 29°14 | 29°56 | 27°14 | n.a. | S 15 |
| M16 | 1 25 0 | 19°46'20 | 16°42 | 9°57 | 9°44 | 19° 6 | 27°35 | 14° 8 | 19°35 | 27°54 | 5°48 | 29° 0 | 29°53 | 27°21 | n.a. | M16 |
| T 17 | 1 28 56 | 20°46'56 | 29°14 | 9°10 | 10°16 | 19°45 | 27°28 | 14° 5 | 19°35 | 27°54 | 5°48 | 28°48 | 29°50 | 27°28 | n.a. | T 17 |
| W18 | 1 32 53 | 21°47'33 | 11♏56 | 8°34 | 10°49 | 20°24 | 27°21 | 14° 2 | 19°34 | 27°53 | 5°47 | 28°38 | 29°47 | 27°35 | n.a. | W18 |
| T 19 | 1 36 49 | 22°48'12 | 24°49 | 8° 9 | 11°24 | 21° 3 | 27°15 | 13°59 | 19°32 | 27°53 | 5°46 | 28°30 | 29°43 | 27°41 | n.a. | T 19 |
| F 20 | 1 40 46 | 23°48'53 | 7♐54 | 7°57 | 12° 0 | 21°43 | 27° 8 | 13°55 | 19°31 | 27°52 | 5°45 | 28°26 | 29°40 | 27°48 | n.a. | F 20 |
| S 21 | 1 44 42 | 24°49'35 | 21° 9 | 7°D55 | 12°37 | 22°22 | 27° 2 | 13°52 | 19°30 | 27°52 | 5°44 | 28°24 | 29°37 | 27°55 | n.a. | S 21 |
| S 22 | 1 48 39 | 25°50'18 | 4♑36 | 8° 5 | 13°16 | 23° 1 | 26°56 | 13°50 | 19°29 | 27°51 | 5°43 | 28°D24 | 29°34 | 28° 1 | n.a. | S 22 |
| M23 | 1 52 36 | 26°51'02 | 18°17 | 8°24 | 13°55 | 23°40 | 26°50 | 13°47 | 19°28 | 27°50 | 5°43 | 28°24 | 29°31 | 28° 8 | n.a. | M23 |
| T 24 | 1 56 32 | 27°51'48 | 2♒12 | 8°53 | 14°36 | 24°19 | 26°44 | 13°44 | 19°27 | 27°50 | 5°42 | 28°R25 | 29°28 | 28°15 | n.a. | T 24 |
| W25 | 2 0 29 | 28°52'34 | 16°22 | 9°30 | 15°19 | 24°59 | 26°38 | 13°41 | 19°25 | 27°49 | 5°41 | 28°23 | 29°24 | 28°21 | n.a. | W25 |
| T 26 | 2 4 25 | 29°53'22 | 0♓44 | 10°15 | 16° 2 | 25°38 | 26°32 | 13°39 | 19°24 | 27°48 | 5°40 | 28°19 | 29°21 | 28°28 | n.a. | T 26 |
| F 27 | 2 8 22 | 0♏54'11 | 15°17 | 11° 6 | 16°46 | 26°17 | 26°27 | 13°36 | 19°22 | 27°48 | 5°39 | 28°13 | 29°18 | 28°35 | n.a. | F 27 |
| S 28 | 2 12 18 | 1°55'00 | 29°55 | 12° 3 | 17°32 | 26°56 | 26°22 | 13°34 | 19°21 | 27°47 | 5°38 | 28° 5 | 29°15 | 28°42 | n.a. | S 28 |
| S 29 | 2 16 15 | 2°55'51 | 14♈32 | 13° 5 | 18°18 | 27°36 | 26°16 | 13°32 | 19°19 | 27°46 | 5°37 | 27°56 | 29°12 | 28°48 | n.a. | S 29 |
| M30 | 2 20 11 | 3°56'43 | 28°59 | 14°11 | 19° 5 | 28°15 | 26°12 | 13°29 | 19°18 | 27°45 | 5°36 | 27°47 | 29° 8 | 28°55 | n.a. | M30 |
| T 31 | 2 24 8 | 4♏57'36 | 13♉12 | 15♎21 | 19♍54 | 28♍54 | 26♓ 7 | 13♓27 | 19♊16 | 27♊44 | 5♊35 | 27♊39 | 29♊ 5 | 29♌ 2 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 1s53 | 2s 9 | 4s59 | 12s 6 | 2s56 | 5n 7 | 4s49 | 9n13 | 1n 9 | 1s48 | 1s44 | 8s25 | 2s42 | 23n29 | 0n11 | 22n55 | 0s46 | 16n10 | 5s28 | 23n42 | 23n42 | 17n 4 | | n.a. |
| M 2 | 2 17 | 3n52 | 4 42 | 11 57 | 2 50 | 5 19 | 4 35 | 8 58 | 1 9 | 1 51 | 1 44 | 8 26 | 2 42 | 23 29 | 0 11 | 22 55 | 0 46 | 16 10 | 5 28 | 23 42 | 23 42 | 17 2 | | n.a. |
| T 3 | 2 41 | 9 32 | 4 7 | 11 43 | 2 42 | 5 30 | 4 22 | 8 43 | 1 9 | 1 54 | 1 44 | 8 28 | 2 42 | 23 29 | 0 11 | 22 55 | 0 46 | 16 9 | 5 28 | 23 42 | 23 42 | 17 0 | | n.a. |
| W 4 | 3 5 | 14 33 | 3 18 | 11 24 | 2 33 | 5 40 | 4 8 | 8 28 | 1 9 | 1 57 | 1 44 | 8 30 | 2 42 | 23 29 | 0 11 | 22 55 | 0 46 | 16 9 | 5 28 | 23 42 | 23 42 | 16 58 | | n.a. |
| T 5 | 3 29 | 18 40 | 2 19 | 10 59 | 2 21 | 5 50 | 3 55 | 8 13 | 1 9 | 2 0 | 1 44 | 8 31 | 2 42 | 23 29 | 0 11 | 22 55 | 0 46 | 16 9 | 5 28 | 23 42 | 23 42 | 16 56 | | n.a. |
| F 6 | 3 53 | 21 42 | 1 15 | 10 29 | 2 8 | 5 58 | 3 41 | 7 58 | 1 9 | 2 3 | 1 44 | 8 33 | 2 42 | 23 29 | 0 11 | 22 55 | 0 46 | 16 9 | 5 28 | 23 42 | 23 42 | 16 54 | | n.a. |
| S 7 | 4 17 | 23 33 | 0 9 | 9 55 | 1 54 | 6 5 | 3 28 | 7 43 | 1 9 | 2 6 | 1 44 | 8 34 | 2 42 | 23 29 | 0 11 | 22 55 | 0 46 | 16 9 | 5 28 | 23 42 | 23 42 | 16 53 | | n.a. |
| S 8 | 4 41 | 24 12 | 0n56 | 9 15 | 1 37 | 6 11 | 3 15 | 7 27 | 1 9 | 2 9 | 1 44 | 8 36 | 2 41 | 23 29 | 0 11 | 22 55 | 0 46 | 16 9 | 5 28 | 23 42 | 23 42 | 16 51 | | n.a. |
| M 9 | 5 5 | 23 41 | 1 57 | 8 31 | 1 19 | 6 17 | 3 3 | 7 12 | 1 8 | 2 12 | 1 43 | 8 37 | 2 41 | 23 29 | 0 11 | 22 55 | 0 46 | 16 9 | 5 28 | 23 42 | 23 42 | 16 49 | | n.a. |
| T 10 | 5 28 | 22 6 | 2 52 | 7 44 | 1 0 | 6 21 | 2 50 | 6 57 | 1 8 | 2 15 | 1 43 | 8 38 | 2 41 | 23 29 | 0 11 | 22 55 | 0 46 | 16 8 | 5 28 | 23 42 | 23 42 | 16 47 | | n.a. |
| W11 | 5 52 | 19 34 | 3 40 | 6 55 | 0 39 | 6 25 | 2 38 | 6 41 | 1 8 | 2 18 | 1 43 | 8 40 | 2 41 | 23 29 | 0 11 | 22 55 | 0 46 | 16 8 | 5 28 | 23 42 | 23 42 | 16 45 | | n.a. |
| T 12 | 6 16 | 16 13 | 4 17 | 6 4 | 0 19 | 6 27 | 2 26 | 6 26 | 1 8 | 2 21 | 1 43 | 8 41 | 2 41 | 23 29 | 0 11 | 22 55 | 0 46 | 16 8 | 5 28 | 23 42 | 23 42 | 16 43 | | n.a. |
| F 13 | 6 39 | 12 13 | 4 44 | 5 15 | 0n 2 | 6 29 | 2 14 | 6 10 | 1 8 | 2 24 | 1 43 | 8 42 | 2 41 | 23 28 | 0 11 | 22 55 | 0 46 | 16 8 | 5 28 | 23 42 | 23 42 | 16 41 | | n.a. |
| S 14 | 7 2 | 7 42 | 4 59 | 4 28 | 0 22 | 6 29 | 2 2 | 5 55 | 1 8 | 2 27 | 1 43 | 8 44 | 2 41 | 23 28 | 0 11 | 22 55 | 0 46 | 16 8 | 5 28 | 23 42 | 23 42 | 16 39 | | n.a. |
| S 15 | 7 26 | 2 50 | 5 0 | 3 44 | 0 41 | 6 29 | 1 51 | 5 39 | 1 8 | 2 29 | 1 42 | 8 45 | 2 40 | 23 28 | 0 11 | 22 55 | 0 46 | 16 8 | 5 28 | 23 42 | 23 42 | 16 37 | | n.a. |
| M16 | 7 49 | 2s13 | 4 47 | 3 4 | 0 59 | 6 28 | 1 40 | 5 24 | 1 8 | 2 32 | 1 42 | 8 46 | 2 40 | 23 28 | 0 11 | 22 55 | 0 46 | 16 7 | 5 28 | 23 42 | 23 42 | 16 36 | | n.a. |
| T 17 | 8 12 | 7 16 | 4 20 | 2 31 | 1 16 | 6 26 | 1 29 | 5 8 | 1 7 | 2 34 | 1 42 | 8 47 | 2 40 | 23 28 | 0 11 | 22 55 | 0 47 | 16 7 | 5 28 | 23 42 | 23 42 | 16 34 | | n.a. |
| W18 | 8 35 | 12 5 | 3 40 | 2 3 | 1 31 | 6 23 | 1 18 | 4 52 | 1 7 | 2 37 | 1 42 | 8 48 | 2 40 | 23 28 | 0 11 | 22 55 | 0 47 | 16 7 | 5 28 | 23 42 | 23 42 | 16 32 | | n.a. |
| T 19 | 8 58 | 16 28 | 2 49 | 1 41 | 1 44 | 6 20 | 1 8 | 4 37 | 1 7 | 2 39 | 1 42 | 8 49 | 2 40 | 23 28 | 0 11 | 22 55 | 0 47 | 16 7 | 5 28 | 23 42 | 23 42 | 16 30 | | n.a. |
| F 20 | 9 20 | 20 6 | 1 47 | 1 26 | 1 55 | 6 15 | 0 58 | 4 21 | 1 7 | 2 42 | 1 41 | 8 51 | 2 40 | 23 28 | 0 11 | 22 55 | 0 47 | 16 7 | 5 28 | 23 42 | 23 42 | 16 28 | | n.a. |
| S 21 | 9 43 | 22 46 | 0 39 | 1 17 | 2 4 | 6 10 | 0 48 | 4 5 | 1 7 | 2 44 | 1 41 | 8 52 | 2 39 | 23 28 | 0 11 | 22 55 | 0 47 | 16 6 | 5 29 | 23 42 | 23 42 | 16 26 | | n.a. |
| S 22 | 10 5 | 24 10 | 0s33 | 1 14 | 2 11 | 6 4 | 0 38 | 3 49 | 1 7 | 2 47 | 1 41 | 8 53 | 2 39 | 23 28 | 0 11 | 22 55 | 0 47 | 16 6 | 5 29 | 23 42 | 23 42 | 16 24 | | n.a. |
| M23 | 10 28 | 24 9 | 1 44 | 1 17 | 2 17 | 5 57 | 0 29 | 3 33 | 1 6 | 2 49 | 1 41 | 8 53 | 2 39 | 23 28 | 0 11 | 22 55 | 0 47 | 16 6 | 5 29 | 23 42 | 23 42 | 16 22 | | n.a. |
| T 24 | 10 50 | 22 39 | 2 50 | 1 25 | 2 21 | 5 49 | 0 20 | 3 17 | 1 6 | 2 51 | 1 40 | 8 54 | 2 39 | 23 28 | 0 11 | 22 55 | 0 47 | 16 6 | 5 29 | 23 42 | 23 42 | 16 20 | | n.a. |
| W25 | 11 12 | 19 43 | 3 47 | 1 37 | 2 23 | 5 41 | 0 11 | 3 2 | 1 6 | 2 53 | 1 40 | 8 55 | 2 39 | 23 28 | 0 11 | 22 54 | 0 47 | 16 6 | 5 29 | 23 42 | 23 42 | 16 18 | | n.a. |
| T 26 | 11 33 | 15 32 | 4 31 | 1 53 | 2 25 | 5 32 | 0 2 | 2 46 | 1 6 | 2 55 | 1 40 | 8 56 | 2 39 | 23 28 | 0 11 | 22 54 | 0 47 | 16 6 | 5 29 | 23 42 | 23 42 | 16 16 | | n.a. |
| F 27 | 11 55 | 10 25 | 4 57 | 2 13 | 2 25 | 5 22 | 0n 6 | 2 30 | 1 6 | 2 57 | 1 40 | 8 57 | 2 38 | 23 27 | 0 11 | 22 54 | 0 47 | 16 5 | 5 29 | 23 41 | 23 42 | 16 14 | | n.a. |
| S 28 | 12 16 | 4 41 | 5 5 | 2 36 | 2 24 | 5 12 | 0 14 | 2 14 | 1 6 | 2 59 | 1 39 | 8 58 | 2 38 | 23 27 | 0 11 | 22 54 | 0 47 | 16 5 | 5 29 | 23 41 | 23 42 | 16 12 | | n.a. |
| S 29 | 12 37 | 1n18 | 4 52 | 3 2 | 2 22 | 5 1 | 0 22 | 1 58 | 1 5 | 3 1 | 1 39 | 8 58 | 2 38 | 23 27 | 0 11 | 22 54 | 0 47 | 16 5 | 5 29 | 23 41 | 23 42 | 16 10 | | n.a. |
| M30 | 12 58 | 7 10 | 4 21 | 3 31 | 2 20 | 4 49 | 0 30 | 1 42 | 1 5 | 3 2 | 1 39 | 8 59 | 2 38 | 23 27 | 0 11 | 22 54 | 0 47 | 16 5 | 5 29 | 23 41 | 23 42 | 16 8 | | n.a. |
| T 31 | 13s19 | 12n34 | 3s35 | 4s 1 | 2n17 | 4n37 | 0n37 | 1n26 | 1n 5 | 3s 4 | 1s39 | 8s59 | 2s38 | 23n27 | 0n11 | 22n54 | 0s47 | 16n 5 | 5s29 | 23n41 | 23n42 | 16n 6 | | n.a. |

Julian Day Number = 1697589.5, Delta T = 03h07m14s
Ecliptic obliquity = 23°42'11, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°57'54, Lahiri = - 4°50'53 Julian Calendar 1 Oct. 66 BCE == Greg. Calendar 29 Sept. 066 BCE

The year -65 astronomical counting style corresponds to year 066 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 66 BCE
# geocentric

## NOVEMBER 66 BCE (-65) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 2 28 5 | 5♏58'31 | 27♉ 3 | 16♎35 | 20♍43 | 29♍33 | 26°R 2 | 13°R25 | 19°R15 | 27°R44 | 5°R34 | 27°R33 | 29♊ 2 | 29♌ 8 | n.a. | W 1 |
| T 2 | 2 32 1 | 6°59'27 | 10♊30 | 17°51 | 21°33 | 0♎13 | 25♓58 | 13♓24 | 19♊13 | 27♊43 | 5♊33 | 27♊29 | 28°59 | 29°15 | n.a. | T 2 |
| F 3 | 2 35 58 | 8° 0'24 | 23°33 | 19° 9 | 22°24 | 0°52 | 25°54 | 13°22 | 19°11 | 27°42 | 5°32 | 27°D28 | 28°56 | 29°22 | n.a. | F 3 |
| S 4 | 2 39 54 | 9° 1'23 | 6♋14 | 20°30 | 23°15 | 1°32 | 25°50 | 13°20 | 19° 9 | 27°41 | 5°31 | 27°28 | 28°53 | 29°29 | n.a. | S 4 |
| S 5 | 2 43 51 | 10° 2'23 | 18°34 | 21°52 | 24° 8 | 2°11 | 25°46 | 13°19 | 19° 8 | 27°40 | 5°30 | 27°29 | 28°49 | 29°35 | n.a. | S 5 |
| M 6 | 2 47 47 | 11° 3'24 | 0♌40 | 23°16 | 25° 1 | 2°50 | 25°42 | 13°17 | 19° 6 | 27°39 | 5°29 | 27°31 | 28°46 | 29°42 | n.a. | M 6 |
| T 7 | 2 51 44 | 12° 4'26 | 12°36 | 24°41 | 25°55 | 3°30 | 25°39 | 13°16 | 19° 4 | 27°38 | 5°27 | 27°R31 | 28°43 | 29°49 | n.a. | T 7 |
| W 8 | 2 55 41 | 13° 5'30 | 24°27 | 26° 8 | 26°49 | 4° 9 | 25°35 | 13°15 | 19° 2 | 27°37 | 5°26 | 27°30 | 28°40 | 29°55 | n.a. | W 8 |
| T 9 | 2 59 37 | 14° 6'35 | 6♍18 | 27°35 | 27°44 | 4°49 | 25°32 | 13°13 | 19° 0 | 27°35 | 5°25 | 27°28 | 28°37 | 0♍ 2 | n.a. | T 9 |
| F 10 | 3 3 34 | 15° 7'41 | 18°14 | 29° 3 | 28°40 | 5°28 | 25°29 | 13°12 | 18°58 | 27°34 | 5°24 | 27°23 | 28°34 | 0° 9 | n.a. | F 10 |
| S 11 | 3 7 30 | 16° 8'47 | 0♎20 | 0♏32 | 29°37 | 6° 8 | 25°27 | 13°12 | 18°56 | 27°33 | 5°23 | 27°17 | 28°30 | 0°15 | n.a. | S 11 |
| S 12 | 3 11 27 | 17° 9'55 | 12°37 | 2° 1 | 0♎34 | 6°47 | 25°24 | 13°11 | 18°54 | 27°32 | 5°22 | 27° 9 | 28°27 | 0°22 | n.a. | S 12 |
| M13 | 3 15 23 | 18°11'04 | 25° 8 | 3°30 | 1°31 | 7°27 | 25°22 | 13°10 | 18°52 | 27°31 | 5°21 | 27° 2 | 28°24 | 0°29 | n.a. | M13 |
| T 14 | 3 19 20 | 19°12'14 | 7♏55 | 5° 1 | 2°29 | 8° 6 | 25°20 | 13° 9 | 18°50 | 27°29 | 5°20 | 26°55 | 28°21 | 0°36 | n.a. | T 14 |
| W15 | 3 23 16 | 20°13'25 | 20°57 | 6°31 | 3°28 | 8°46 | 25°18 | 13° 9 | 18°47 | 27°28 | 5°18 | 26°49 | 28°18 | 0°42 | n.a. | W15 |
| T 16 | 3 27 13 | 21°14'36 | 4♐13 | 8° 2 | 4°27 | 9°25 | 25°17 | 13° 9 | 18°45 | 27°27 | 5°17 | 26°45 | 28°14 | 0°49 | n.a. | T 16 |
| F 17 | 3 31 10 | 22°15'48 | 17°41 | 9°33 | 5°26 | 10° 5 | 25°15 | 13° 8 | 18°43 | 27°26 | 5°16 | 26°43 | 28°11 | 0°56 | n.a. | F 17 |
| S 18 | 3 35 6 | 23°17'01 | 1♑21 | 11° 4 | 6°27 | 10°44 | 25°14 | 13° 8 | 18°41 | 27°24 | 5°15 | 26°D43 | 28° 8 | 1° 2 | n.a. | S 18 |
| S 19 | 3 39 3 | 24°18'13 | 15° 9 | 12°36 | 7°27 | 11°24 | 25°13 | 13°D 8 | 18°38 | 27°23 | 5°14 | 26°44 | 28° 5 | 1° 9 | n.a. | S 19 |
| M20 | 3 42 59 | 25°19'27 | 29° 5 | 14° 8 | 8°28 | 12° 3 | 25°12 | 13° 8 | 18°36 | 27°22 | 5°13 | 26°45 | 28° 2 | 1°16 | n.a. | M20 |
| T 21 | 3 46 56 | 26°20'40 | 13♒ 8 | 15°40 | 9°29 | 12°43 | 25°12 | 13° 8 | 18°34 | 27°20 | 5°11 | 26°47 | 27°59 | 1°23 | n.a. | T 21 |
| W22 | 3 50 52 | 27°21'53 | 27°15 | 17°12 | 10°31 | 13°23 | 25°11 | 13° 9 | 18°32 | 27°19 | 5°10 | 26°R47 | 27°55 | 1°29 | n.a. | W22 |
| T 23 | 3 54 49 | 28°23'07 | 11♓26 | 18°45 | 11°33 | 14° 2 | 25°D11 | 13° 9 | 18°29 | 27°17 | 5° 9 | 26°47 | 27°52 | 1°36 | n.a. | T 23 |
| F 24 | 3 58 45 | 29°24'20 | 25°39 | 20°18 | 12°36 | 14°42 | 25°11 | 13°10 | 18°27 | 27°16 | 5° 8 | 26°45 | 27°49 | 1°43 | n.a. | F 24 |
| S 25 | 4 2 42 | 0♐25'33 | 9♈50 | 21°51 | 13°38 | 15°22 | 25°11 | 13°10 | 18°24 | 27°14 | 5° 7 | 26°42 | 27°46 | 1°49 | n.a. | S 25 |
| S 26 | 4 6 39 | 1°26'47 | 23°56 | 23°24 | 14°42 | 16° 1 | 25°12 | 13°11 | 18°22 | 27°13 | 5° 5 | 26°38 | 27°43 | 1°56 | n.a. | S 26 |
| M27 | 4 10 35 | 2°28'00 | 7♉55 | 24°57 | 15°45 | 16°41 | 25°13 | 13°12 | 18°19 | 27°11 | 5° 4 | 26°34 | 27°40 | 2° 3 | n.a. | M27 |
| T 28 | 4 14 32 | 3°29'14 | 21°40 | 26°31 | 16°49 | 17°21 | 25°13 | 13°13 | 18°17 | 27°10 | 5° 3 | 26°31 | 27°36 | 2°10 | n.a. | T 28 |
| W29 | 4 18 28 | 4°30'28 | 5♊11 | 28° 4 | 17°53 | 18° 0 | 25°14 | 13°14 | 18°14 | 27° 8 | 5° 2 | 26°28 | 27°33 | 2°16 | n.a. | W29 |
| T 30 | 4 22 25 | 5♐31'42 | 18♊24 | 29♏39 | 18♎58 | 18♎40 | 25♓16 | 13♓15 | 18♊12 | 27♊ 7 | 5♊ 0 | 26♊27 | 27♊30 | 2♍23 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 13 s40 | 17n11 | 2 s36 | 4 s33 | 2n13 | 4n24 | 0n44 | 1n10 | 1n 5 | 3 s 6 | 1 s38 | 9 s 0 | 2 s37 | 23n27 | 0n11 | 22n54 | 0 s47 | 16n 4 | 5 s29 | 23n41 | 23n42 | 16n 4 | | n.a. |
| T 2 | 14 0 | 20 47 | 1 30 | 5 6 | 2 8 | 4 10 | 0 51 | 0 54 | 1 5 | 3 7 | 1 38 | 9 1 | 2 37 | 23 27 | 0 11 | 22 54 | 0 47 | 16 4 | 5 29 | 23 41 | 23 42 | 16 2 | | n.a. |
| F 3 | 14 20 | 23 12 | 0 21 | 5 41 | 2 4 | 3 56 | 0 58 | 0 38 | 1 4 | 3 9 | 1 38 | 9 1 | 2 37 | 23 27 | 0 11 | 22 54 | 0 47 | 16 4 | 5 29 | 23 41 | 23 42 | 16 0 | | n.a. |
| S 4 | 14 40 | 24 20 | 0n47 | 6 16 | 1 58 | 3 42 | 1 5 | 0 22 | 1 4 | 3 10 | 1 38 | 9 2 | 2 37 | 23 27 | 0 11 | 22 54 | 0 47 | 16 4 | 5 29 | 23 41 | 23 42 | 15 58 | | n.a. |
| S 5 | 14 59 | 24 14 | 1 51 | 6 52 | 1 53 | 3 26 | 1 11 | 0 6 | 1 4 | 3 11 | 1 37 | 9 2 | 2 36 | 23 26 | 0 11 | 22 54 | 0 47 | 16 4 | 5 29 | 23 41 | 23 42 | 15 56 | | n.a. |
| M 6 | 15 19 | 22 59 | 2 50 | 7 29 | 1 47 | 3 11 | 1 17 | 0 s10 | 1 4 | 3 12 | 1 37 | 9 2 | 2 36 | 23 26 | 0 11 | 22 54 | 0 47 | 16 3 | 5 29 | 23 41 | 23 42 | 15 54 | | n.a. |
| T 7 | 15 38 | 20 43 | 3 39 | 8 7 | 1 41 | 2 54 | 1 23 | 0 26 | 1 3 | 3 13 | 1 37 | 9 3 | 2 36 | 23 26 | 0 11 | 22 54 | 0 47 | 16 3 | 5 29 | 23 41 | 23 42 | 15 52 | | n.a. |
| W 8 | 15 56 | 17 35 | 4 20 | 8 44 | 1 34 | 2 38 | 1 28 | 0 42 | 1 3 | 3 14 | 1 36 | 9 3 | 2 36 | 23 26 | 0 11 | 22 54 | 0 47 | 16 3 | 5 29 | 23 41 | 23 42 | 15 50 | | n.a. |
| T 9 | 16 15 | 13 45 | 4 49 | 9 22 | 1 28 | 2 20 | 1 34 | 0 58 | 1 3 | 3 15 | 1 36 | 9 3 | 2 36 | 23 26 | 0 11 | 22 54 | 0 47 | 16 3 | 5 29 | 23 41 | 23 42 | 15 48 | | n.a. |
| F 10 | 16 33 | 9 22 | 5 5 | 10 0 | 1 21 | 2 3 | 1 39 | 1 14 | 1 3 | 3 16 | 1 36 | 9 3 | 2 35 | 23 26 | 0 11 | 22 54 | 0 47 | 16 3 | 5 29 | 23 41 | 23 42 | 15 46 | | n.a. |
| S 11 | 16 51 | 4 35 | 5 9 | 10 37 | 1 14 | 1 44 | 1 44 | 1 30 | 1 2 | 3 17 | 1 35 | 9 3 | 2 35 | 23 26 | 0 11 | 22 54 | 0 47 | 16 3 | 5 29 | 23 40 | 23 42 | 15 44 | | n.a. |
| S 12 | 17 9 | 0 s28 | 4 58 | 11 15 | 1 7 | 1 26 | 1 49 | 1 46 | 1 2 | 3 18 | 1 35 | 9 4 | 2 35 | 23 25 | 0 11 | 22 54 | 0 47 | 16 2 | 5 29 | 23 40 | 23 42 | 15 42 | | n.a. |
| M13 | 17 26 | 5 36 | 4 33 | 11 53 | 1 0 | 1 7 | 1 53 | 2 2 | 1 2 | 3 18 | 1 35 | 9 4 | 2 35 | 23 25 | 0 11 | 22 54 | 0 47 | 16 2 | 5 29 | 23 40 | 23 42 | 15 40 | | n.a. |
| T 14 | 17 43 | 10 37 | 3 54 | 12 30 | 0 53 | 0 48 | 1 57 | 2 18 | 1 2 | 3 19 | 1 34 | 9 4 | 2 34 | 23 25 | 0 11 | 22 54 | 0 47 | 16 2 | 5 29 | 23 40 | 23 42 | 15 38 | | n.a. |
| W15 | 18 0 | 15 16 | 3 2 | 13 7 | 0 46 | 0 28 | 2 2 | 2 34 | 1 1 | 3 19 | 1 34 | 9 4 | 2 34 | 23 25 | 0 12 | 22 54 | 0 47 | 16 2 | 5 29 | 23 40 | 23 42 | 15 36 | | n.a. |
| T 16 | 18 16 | 19 16 | 2 0 | 13 43 | 0 39 | 0 8 | 2 6 | 2 50 | 1 1 | 3 20 | 1 34 | 9 3 | 2 34 | 23 25 | 0 12 | 22 54 | 0 47 | 16 2 | 5 29 | 23 40 | 23 41 | 15 34 | | n.a. |
| F 17 | 18 32 | 22 19 | 0 49 | 14 19 | 0 32 | 0 s13 | 2 9 | 3 6 | 1 1 | 3 20 | 1 33 | 9 3 | 2 34 | 23 25 | 0 12 | 22 54 | 0 47 | 16 1 | 5 29 | 23 40 | 23 41 | 15 32 | | n.a. |
| S 18 | 18 48 | 24 7 | 0 s25 | 14 55 | 0 25 | 0 33 | 2 13 | 3 22 | 1 1 | 3 20 | 1 33 | 9 3 | 2 33 | 23 24 | 0 12 | 22 54 | 0 47 | 16 1 | 5 29 | 23 40 | 23 41 | 15 30 | | n.a. |
| S 19 | 19 3 | 24 28 | 1 39 | 15 30 | 0 18 | 0 54 | 2 16 | 3 38 | 1 0 | 3 20 | 1 33 | 9 3 | 2 33 | 23 24 | 0 12 | 22 54 | 0 47 | 16 1 | 5 29 | 23 40 | 23 41 | 15 28 | | n.a. |
| M20 | 19 18 | 23 18 | 2 48 | 16 5 | 0 11 | 1 16 | 2 20 | 3 54 | 1 0 | 3 20 | 1 32 | 9 3 | 2 33 | 23 24 | 0 12 | 22 54 | 0 47 | 16 1 | 5 29 | 23 40 | 23 41 | 15 26 | | n.a. |
| T 21 | 19 33 | 20 41 | 3 47 | 16 39 | 0 4 | 1 37 | 2 23 | 4 10 | 1 0 | 3 20 | 1 32 | 9 2 | 2 33 | 23 24 | 0 12 | 22 54 | 0 47 | 16 1 | 5 29 | 23 40 | 23 41 | 15 24 | | n.a. |
| W22 | 19 47 | 16 49 | 4 33 | 17 12 | 0 s 3 | 1 59 | 2 25 | 4 26 | 0 59 | 3 20 | 1 32 | 9 2 | 2 32 | 23 24 | 0 12 | 22 54 | 0 47 | 16 1 | 5 29 | 23 40 | 23 41 | 15 22 | | n.a. |
| T 23 | 20 1 | 12 0 | 5 2 | 17 45 | 0 9 | 2 21 | 2 28 | 4 41 | 0 59 | 3 20 | 1 31 | 9 2 | 2 32 | 23 23 | 0 12 | 22 54 | 0 47 | 16 0 | 5 29 | 23 40 | 23 41 | 15 19 | | n.a. |
| F 24 | 20 15 | 6 32 | 5 13 | 18 16 | 0 16 | 2 43 | 2 31 | 4 57 | 0 59 | 3 19 | 1 31 | 9 1 | 2 32 | 23 23 | 0 12 | 22 54 | 0 47 | 16 0 | 5 28 | 23 40 | 23 41 | 15 17 | | n.a. |
| S 25 | 20 28 | 0 44 | 5 5 | 18 48 | 0 23 | 3 6 | 2 33 | 5 13 | 0 58 | 3 19 | 1 31 | 9 1 | 2 32 | 23 23 | 0 12 | 22 54 | 0 47 | 16 0 | 5 28 | 23 40 | 23 41 | 15 15 | | n.a. |
| S 26 | 20 41 | 5n 4 | 4 39 | 19 18 | 0 29 | 3 28 | 2 35 | 5 29 | 0 58 | 3 19 | 1 30 | 9 0 | 2 31 | 23 23 | 0 12 | 22 54 | 0 47 | 16 0 | 5 28 | 23 40 | 23 41 | 15 13 | | n.a. |
| M27 | 20 53 | 10 35 | 3 56 | 19 47 | 0 36 | 3 51 | 2 37 | 5 44 | 0 58 | 3 18 | 1 30 | 9 0 | 2 31 | 23 23 | 0 12 | 22 54 | 0 47 | 16 0 | 5 28 | 23 39 | 23 41 | 15 11 | | n.a. |
| T 28 | 21 5 | 15 29 | 3 0 | 20 16 | 0 42 | 4 14 | 2 39 | 6 0 | 0 57 | 3 17 | 1 30 | 8 59 | 2 31 | 23 22 | 0 12 | 22 54 | 0 47 | 16 0 | 5 28 | 23 39 | 23 41 | 15 9 | | n.a. |
| W29 | 21 17 | 19 31 | 1 54 | 20 44 | 0 48 | 4 37 | 2 41 | 6 16 | 0 57 | 3 17 | 1 29 | 8 58 | 2 31 | 23 22 | 0 12 | 22 53 | 0 47 | 15 59 | 5 28 | 23 39 | 23 41 | 15 7 | | n.a. |
| T 30 | 21 s28 | 22n27 | 0 s44 | 21 s10 | 0 s54 | 5 s 1 | 2n42 | 6 s31 | 0n57 | 3 s16 | 1 s29 | 8 s58 | 2 s30 | 23n22 | 0n12 | 22n53 | 0 s47 | 15n59 | 5 s28 | 23n39 | 23n41 | 15n 5 | | n.a. |

Julian Day Number = 1697620.5, Delta T = 03h07m14s
Ecliptic obliquity = 23°42'11, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°57'49, Lahiri = - 4°50'49 Julian Calendar 1 Nov. 66 BCE == Greg. Calendar 30 Oct. 066 BCE

The year -65 astronomical counting style corresponds to year 066 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 66 BCE
# geocentric

## DECEMBER 66 BCE (-65) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 4 26 21 | 6♐32'56 | 1♋19 | 1♐13 | 20♎ 3 | 19♎20 | 25♓17 | 13♓17 | 18°R 9 | 27°R 5 | 4°R59 | 26°D27 | 27♊27 | 2♍30 | n.a. | F 1 |
| S 2 | 4 30 18 | 7°34'10 | 13°56 | 2°48 | 21° 8 | 20° 0 | 25°19 | 13°18 | 18♊ 7 | 27♊ 4 | 4♊58 | 26♊28 | 27°24 | 2°36 | n.a. | S 2 |
| S 3 | 4 34 14 | 8°35'25 | 26°16 | 4°23 | 22°13 | 20°39 | 25°21 | 13°20 | 18° 4 | 27° 2 | 4°57 | 26°29 | 27°20 | 2°43 | n.a. | S 3 |
| M 4 | 4 38 11 | 9°36'39 | 8♌23 | 5°58 | 23°19 | 21°19 | 25°23 | 13°21 | 18° 2 | 27° 1 | 4°56 | 26°31 | 27°17 | 2°50 | n.a. | M 4 |
| T 5 | 4 42 8 | 10°37'54 | 20°21 | 7°34 | 24°25 | 21°59 | 25°25 | 13°23 | 17°59 | 26°59 | 4°54 | 26°32 | 27°14 | 2°56 | n.a. | T 5 |
| W 6 | 4 46 4 | 11°39'09 | 2♍14 | 9° 9 | 25°31 | 22°39 | 25°28 | 13°25 | 17°57 | 26°57 | 4°53 | 26°33 | 27°11 | 3° 3 | n.a. | W 6 |
| T 7 | 4 50 1 | 12°40'24 | 14° 5 | 10°46 | 26°37 | 23°19 | 25°31 | 13°27 | 17°54 | 26°56 | 4°52 | 26°R33 | 27° 8 | 3°10 | n.a. | T 7 |
| F 8 | 4 53 57 | 13°41'39 | 26° 2 | 12°23 | 27°44 | 23°58 | 25°33 | 13°29 | 17°51 | 26°54 | 4°51 | 26°33 | 27° 5 | 3°17 | n.a. | F 8 |
| S 9 | 4 57 54 | 14°42'54 | 8♎ 7 | 14° 0 | 28°51 | 24°38 | 25°37 | 13°31 | 17°49 | 26°52 | 4°50 | 26°32 | 27° 1 | 3°23 | n.a. | S 9 |
| S 10 | 5 1 50 | 15°44'09 | 20°26 | 15°37 | 29°58 | 25°18 | 25°40 | 13°33 | 17°46 | 26°51 | 4°48 | 26°30 | 26°58 | 3°30 | n.a. | S 10 |
| M11 | 5 5 47 | 16°45'24 | 3♏ 1 | 17°15 | 1♏ 5 | 25°58 | 25°43 | 13°36 | 17°44 | 26°49 | 4°47 | 26°29 | 26°55 | 3°37 | n.a. | M11 |
| T 12 | 5 9 44 | 17°46'38 | 15°56 | 18°53 | 2°13 | 26°38 | 25°47 | 13°38 | 17°41 | 26°47 | 4°46 | 26°28 | 26°52 | 3°43 | n.a. | T 12 |
| W13 | 5 13 40 | 18°47'53 | 29°11 | 20°32 | 3°20 | 27°18 | 25°51 | 13°41 | 17°39 | 26°46 | 4°45 | 26°27 | 26°49 | 3°50 | n.a. | W13 |
| T 14 | 5 17 37 | 19°49'07 | 12♐46 | 22°12 | 4°28 | 27°58 | 25°55 | 13°43 | 17°36 | 26°44 | 4°44 | 26°26 | 26°46 | 3°57 | n.a. | T 14 |
| F 15 | 5 21 33 | 20°50'21 | 26°40 | 23°51 | 5°36 | 28°38 | 25°59 | 13°46 | 17°33 | 26°42 | 4°43 | 26°D26 | 26°42 | 4° 4 | n.a. | F 15 |
| S 16 | 5 25 30 | 21°51'35 | 10♑47 | 25°31 | 6°44 | 29°17 | 26° 4 | 13°49 | 17°31 | 26°41 | 4°41 | 26°26 | 26°39 | 4°10 | n.a. | S 16 |
| S 17 | 5 29 26 | 22°52'47 | 25° 6 | 27°12 | 7°53 | 29°57 | 26° 8 | 13°52 | 17°28 | 26°39 | 4°40 | 26°26 | 26°36 | 4°17 | n.a. | S 17 |
| M18 | 5 33 23 | 23°53'59 | 9♒29 | 28°53 | 9° 1 | 0♏37 | 26°13 | 13°55 | 17°26 | 26°37 | 4°39 | 26°27 | 26°33 | 4°24 | n.a. | M18 |
| T 19 | 5 37 19 | 24°55'10 | 23°53 | 0♑34 | 10°10 | 1°17 | 26°18 | 13°58 | 17°23 | 26°36 | 4°38 | 26°27 | 26°30 | 4°30 | n.a. | T 19 |
| W20 | 5 41 16 | 25°56'20 | 8♓14 | 2°16 | 11°19 | 1°57 | 26°24 | 14° 2 | 17°20 | 26°34 | 4°37 | 26°27 | 26°26 | 4°37 | n.a. | W20 |
| T 21 | 5 45 13 | 26°57'29 | 22°28 | 3°58 | 12°28 | 2°37 | 26°29 | 14° 5 | 17°18 | 26°32 | 4°36 | 26°27 | 26°23 | 4°44 | n.a. | T 21 |
| F 22 | 5 49 9 | 27°58'37 | 6♈33 | 5°41 | 13°37 | 3°17 | 26°34 | 14° 9 | 17°15 | 26°31 | 4°35 | 26°27 | 26°20 | 4°51 | n.a. | F 22 |
| S 23 | 5 53 6 | 28°59'44 | 20°28 | 7°24 | 14°46 | 3°57 | 26°40 | 14°12 | 17°13 | 26°29 | 4°33 | 26°27 | 26°17 | 4°57 | n.a. | S 23 |
| S 24 | 5 57 2 | 0♑ 0'50 | 4♉10 | 9° 7 | 15°56 | 4°37 | 26°46 | 14°16 | 17°10 | 26°27 | 4°32 | 26°27 | 26°14 | 5° 4 | n.a. | S 24 |
| M25 | 6 0 59 | 1° 1'54 | 17°41 | 10°50 | 17° 5 | 5°17 | 26°52 | 14°20 | 17° 8 | 26°25 | 4°31 | 26°28 | 26°11 | 5°11 | n.a. | M25 |
| T 26 | 6 4 55 | 2° 2'58 | 0♊58 | 12°33 | 18°15 | 5°57 | 26°58 | 14°24 | 17° 5 | 26°24 | 4°30 | 26°28 | 26° 7 | 5°17 | n.a. | T 26 |
| W27 | 6 8 52 | 3° 4'00 | 14° 3 | 14°16 | 19°25 | 6°37 | 27° 5 | 14°28 | 17° 3 | 26°22 | 4°29 | 26°29 | 26° 4 | 5°24 | n.a. | W27 |
| T 28 | 6 12 48 | 4° 5'02 | 26°54 | 15°59 | 20°35 | 7°17 | 27°11 | 14°32 | 17° 0 | 26°20 | 4°28 | 26°R29 | 26° 1 | 5°31 | n.a. | T 28 |
| F 29 | 6 16 45 | 5° 6'02 | 9♋33 | 17°41 | 21°45 | 7°57 | 27°18 | 14°36 | 16°58 | 26°19 | 4°27 | 26°29 | 25°58 | 5°38 | n.a. | F 29 |
| S 30 | 6 20 42 | 6° 7'02 | 21°59 | 19°23 | 22°55 | 8°37 | 27°25 | 14°40 | 16°55 | 26°17 | 4°26 | 26°28 | 25°55 | 5°44 | n.a. | S 30 |
| S 31 | 6 24 38 | 7♑ 8'00 | 4♌13 | 21♑ 3 | 24♏ 5 | 9♏17 | 27♓32 | 14♓44 | 16♊53 | 26♊15 | 4♊25 | 26♊27 | 25♊52 | 5♍51 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 21s38 | 24n 9 | 0n27 | 21s36 | 1s 0 | 5s24 | 2n43 | 6s47 | 0n56 | 3s15 | 1s29 | 8s57 | 2s30 | 23n22 | 0n12 | 22n53 | 0s47 | 15n59 | 5s28 | 23n39 | 23n41 | 15n 3 | | n.a. |
| S 2 | 21 49 | 24 32 | 1 35 | 22 1 | 1 5 | 5 48 | 2 45 | 7 2 | 0 56 | 3 14 | 1 28 | 8 56 | 2 30 | 23 22 | 0 12 | 22 53 | 0 47 | 15 59 | 5 28 | 23 39 | 23 41 | 15 0 | | n.a. |
| S 3 | 21 59 | 23 42 | 2 37 | 22 25 | 1 11 | 6 11 | 2 46 | 7 18 | 0 56 | 3 13 | 1 28 | 8 55 | 2 30 | 23 21 | 0 12 | 22 53 | 0 47 | 15 59 | 5 28 | 23 39 | 23 41 | 14 58 | | n.a. |
| M 4 | 22 8 | 21 46 | 3 31 | 22 47 | 1 16 | 6 35 | 2 46 | 7 33 | 0 55 | 3 12 | 1 28 | 8 54 | 2 29 | 23 21 | 0 12 | 22 53 | 0 47 | 15 59 | 5 28 | 23 39 | 23 40 | 14 56 | | n.a. |
| T 5 | 22 17 | 18 54 | 4 16 | 23 9 | 1 21 | 6 58 | 2 47 | 7 48 | 0 55 | 3 10 | 1 27 | 8 54 | 2 29 | 23 21 | 0 12 | 22 53 | 0 47 | 15 58 | 5 28 | 23 39 | 23 40 | 14 54 | | n.a. |
| W 6 | 22 26 | 15 16 | 4 48 | 23 29 | 1 26 | 7 22 | 2 48 | 8 4 | 0 54 | 3 9 | 1 27 | 8 53 | 2 29 | 23 21 | 0 12 | 22 53 | 0 47 | 15 58 | 5 28 | 23 39 | 23 40 | 14 52 | | n.a. |
| T 7 | 22 34 | 11 4 | 5 9 | 23 48 | 1 30 | 7 46 | 2 48 | 8 19 | 0 54 | 3 8 | 1 27 | 8 52 | 2 29 | 23 20 | 0 12 | 22 53 | 0 47 | 15 58 | 5 28 | 23 39 | 23 40 | 14 50 | | n.a. |
| F 8 | 22 42 | 6 25 | 5 16 | 24 6 | 1 35 | 8 10 | 2 49 | 8 34 | 0 54 | 3 6 | 1 26 | 8 51 | 2 28 | 23 20 | 0 12 | 22 53 | 0 47 | 15 58 | 5 28 | 23 39 | 23 40 | 14 48 | | n.a. |
| S 9 | 22 49 | 1 29 | 5 10 | 24 22 | 1 39 | 8 33 | 2 49 | 8 49 | 0 53 | 3 5 | 1 26 | 8 49 | 2 28 | 23 20 | 0 12 | 22 53 | 0 47 | 15 58 | 5 28 | 23 39 | 23 40 | 14 45 | | n.a. |
| S 10 | 22 56 | 3s36 | 4 49 | 24 37 | 1 43 | 8 57 | 2 49 | 9 4 | 0 53 | 3 3 | 1 26 | 8 48 | 2 28 | 23 20 | 0 12 | 22 53 | 0 47 | 15 58 | 5 28 | 23 39 | 23 40 | 14 43 | | n.a. |
| M11 | 23 2 | 8 40 | 4 15 | 24 51 | 1 46 | 9 21 | 2 49 | 9 20 | 0 52 | 3 1 | 1 25 | 8 47 | 2 28 | 23 20 | 0 12 | 22 53 | 0 47 | 15 58 | 5 27 | 23 39 | 23 40 | 14 41 | | n.a. |
| T 12 | 23 8 | 13 30 | 3 26 | 25 3 | 1 50 | 9 44 | 2 48 | 9 34 | 0 52 | 3 0 | 1 25 | 8 46 | 2 27 | 23 19 | 0 12 | 22 53 | 0 47 | 15 57 | 5 27 | 23 39 | 23 40 | 14 39 | | n.a. |
| W13 | 23 13 | 17 50 | 2 25 | 25 14 | 1 53 | 10 8 | 2 48 | 9 49 | 0 51 | 2 58 | 1 25 | 8 45 | 2 27 | 23 19 | 0 12 | 22 53 | 0 47 | 15 57 | 5 27 | 23 39 | 23 40 | 14 37 | | n.a. |
| T 14 | 23 18 | 21 20 | 1 15 | 25 23 | 1 55 | 10 31 | 2 48 | 10 4 | 0 51 | 2 56 | 1 24 | 8 43 | 2 27 | 23 19 | 0 12 | 22 53 | 0 47 | 15 57 | 5 27 | 23 39 | 23 40 | 14 35 | | n.a. |
| F 15 | 23 23 | 23 41 | 0s 1 | 25 31 | 1 58 | 10 55 | 2 47 | 10 19 | 0 51 | 2 54 | 1 24 | 8 42 | 2 27 | 23 19 | 0 12 | 22 53 | 0 47 | 15 57 | 5 27 | 23 39 | 23 40 | 14 32 | | n.a. |
| S 16 | 23 27 | 24 34 | 1 19 | 25 37 | 2 0 | 11 18 | 2 46 | 10 34 | 0 50 | 2 52 | 1 24 | 8 41 | 2 26 | 23 18 | 0 12 | 22 53 | 0 47 | 15 57 | 5 27 | 23 39 | 23 40 | 14 30 | | n.a. |
| S 17 | 23 31 | 23 51 | 2 32 | 25 42 | 2 1 | 11 41 | 2 45 | 10 48 | 0 50 | 2 50 | 1 24 | 8 39 | 2 26 | 23 18 | 0 12 | 22 53 | 0 47 | 15 57 | 5 27 | 23 39 | 23 40 | 14 28 | | n.a. |
| M18 | 23 34 | 21 33 | 3 37 | 25 45 | 2 3 | 12 4 | 2 44 | 11 3 | 0 49 | 2 47 | 1 23 | 8 38 | 2 26 | 23 18 | 0 12 | 22 53 | 0 47 | 15 57 | 5 27 | 23 39 | 23 39 | 14 26 | | n.a. |
| T 19 | 23 36 | 17 54 | 4 28 | 25 46 | 2 4 | 12 27 | 2 43 | 11 17 | 0 49 | 2 45 | 1 23 | 8 37 | 2 26 | 23 18 | 0 12 | 22 53 | 0 47 | 15 57 | 5 27 | 23 39 | 23 39 | 14 24 | | n.a. |
| W20 | 23 38 | 13 13 | 5 1 | 25 45 | 2 4 | 12 49 | 2 42 | 11 32 | 0 48 | 2 43 | 1 23 | 8 35 | 2 26 | 23 17 | 0 12 | 22 53 | 0 47 | 15 57 | 5 27 | 23 39 | 23 39 | 14 21 | | n.a. |
| T 21 | 23 40 | 7 51 | 5 16 | 25 42 | 2 4 | 13 12 | 2 41 | 11 46 | 0 48 | 2 40 | 1 22 | 8 34 | 2 25 | 23 17 | 0 12 | 22 53 | 0 47 | 15 56 | 5 27 | 23 39 | 23 39 | 14 19 | | n.a. |
| F 22 | 23 41 | 2 8 | 5 12 | 25 38 | 2 3 | 13 34 | 2 40 | 12 0 | 0 47 | 2 38 | 1 22 | 8 32 | 2 25 | 23 17 | 0 12 | 22 53 | 0 47 | 15 56 | 5 26 | 23 39 | 23 39 | 14 17 | | n.a. |
| S 23 | 23 42 | 3n36 | 4 50 | 25 32 | 2 2 | 13 56 | 2 38 | 12 14 | 0 47 | 2 35 | 1 22 | 8 30 | 2 25 | 23 17 | 0 12 | 22 53 | 0 47 | 15 56 | 5 26 | 23 39 | 23 39 | 14 15 | | n.a. |
| S 24 | 23 42 | 9 7 | 4 11 | 25 23 | 2 1 | 14 17 | 2 37 | 12 29 | 0 46 | 2 32 | 1 21 | 8 29 | 2 25 | 23 16 | 0 12 | 22 53 | 0 47 | 15 56 | 5 26 | 23 39 | 23 39 | 14 13 | | n.a. |
| M25 | 23 42 | 14 6 | 3 19 | 25 13 | 1 58 | 14 39 | 2 35 | 12 43 | 0 46 | 2 30 | 1 21 | 8 27 | 2 24 | 23 16 | 0 12 | 22 53 | 0 47 | 15 56 | 5 26 | 23 39 | 23 39 | 14 10 | | n.a. |
| T 26 | 23 41 | 18 21 | 2 17 | 25 1 | 1 56 | 15 0 | 2 33 | 12 56 | 0 45 | 2 27 | 1 21 | 8 25 | 2 24 | 23 16 | 0 12 | 22 53 | 0 47 | 15 56 | 5 26 | 23 39 | 23 39 | 14 8 | | n.a. |
| W27 | 23 40 | 21 36 | 1 8 | 24 47 | 1 52 | 15 21 | 2 31 | 13 10 | 0 45 | 2 24 | 1 20 | 8 24 | 2 24 | 23 16 | 0 12 | 22 53 | 0 47 | 15 56 | 5 26 | 23 39 | 23 39 | 14 6 | | n.a. |
| T 28 | 23 38 | 23 42 | 0n 2 | 24 31 | 1 48 | 15 42 | 2 29 | 13 24 | 0 44 | 2 21 | 1 20 | 8 22 | 2 24 | 23 16 | 0 12 | 22 53 | 0 47 | 15 56 | 5 26 | 23 39 | 23 39 | 14 4 | | n.a. |
| F 29 | 23 36 | 24 33 | 1 12 | 24 14 | 1 43 | 16 2 | 2 27 | 13 38 | 0 44 | 2 18 | 1 20 | 8 20 | 2 24 | 23 15 | 0 12 | 22 53 | 0 47 | 15 56 | 5 26 | 23 39 | 23 38 | 14 1 | | n.a. |
| S 30 | 23 34 | 24 8 | 2 17 | 23 54 | 1 38 | 16 22 | 2 25 | 13 51 | 0 43 | 2 15 | 1 20 | 8 18 | 2 23 | 23 15 | 0 12 | 22 52 | 0 47 | 15 56 | 5 26 | 23 39 | 23 38 | 13 59 | | n.a. |
| S 31 | 23s30 | 22n33 | 3n14 | 23s33 | 1s32 | 16s41 | 2n23 | 14s 5 | 0n42 | 2s12 | 1s19 | 8s16 | 2s23 | 23n15 | 0n12 | 22n52 | 0s47 | 15n56 | 5s25 | 23n39 | 23n38 | 13n57 | | n.a. |

Julian Day Number = 1697650.5, Delta T = 03h07m13s
Ecliptic obliquity = 23°42'11, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°57'45, Lahiri = - 4°50'45 Julian Calendar 1 Dec. 66 BCE == Greg. Calendar 29 Nov. 066 BCE

The year -65 astronomical counting style corresponds to year 066 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 65 BCE
# geocentric

## JANUARY 65 BCE (-64) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 6 28 35 | 8♑ 8'58 | 16♌18 | 22♑43 | 25♏15 | 9♏57 | 27♓39 | 14♓49 | 16°R51 | 26°R14 | 4°R24 | 26°R25 | 25♊48 | 5♍58 | n.a. | M 1 |
| T 2 | 6 32 31 | 9° 9'54 | 28°15 | 24°21 | 26°26 | 10°37 | 27°47 | 14°53 | 16♊48 | 26♊12 | 4♊23 | 26♊23 | 25°45 | 6° 5 | n.a. | T 2 |
| W 3 | 6 36 28 | 10°10'50 | 10♍ 8 | 25°57 | 27°36 | 11°17 | 27°54 | 14°58 | 16°46 | 26°10 | 4°22 | 26°21 | 25°42 | 6°11 | n.a. | W 3 |
| T 4 | 6 40 24 | 11°11'44 | 21°59 | 27°30 | 28°47 | 11°58 | 28° 2 | 15° 3 | 16°44 | 26° 9 | 4°21 | 26°20 | 25°39 | 6°18 | n.a. | T 4 |
| F 5 | 6 44 21 | 12°12'38 | 3♎55 | 29° 1 | 29°57 | 12°38 | 28°10 | 15° 7 | 16°41 | 26° 7 | 4°20 | 26°19 | 25°36 | 6°25 | n.a. | F 5 |
| S 6 | 6 48 18 | 13°13'30 | 15°58 | 0♒28 | 1♐ 8 | 13°18 | 28°18 | 15°12 | 16°39 | 26° 6 | 4°19 | 26°D18 | 25°32 | 6°31 | n.a. | S 6 |
| S 7 | 6 52 14 | 14°14'21 | 28°13 | 1°52 | 2°19 | 13°58 | 28°26 | 15°17 | 16°37 | 26° 4 | 4°18 | 26°19 | 25°29 | 6°38 | n.a. | S 7 |
| M 8 | 6 56 11 | 15°15'12 | 10♏46 | 3°10 | 3°30 | 14°38 | 28°34 | 15°22 | 16°35 | 26° 2 | 4°18 | 26°20 | 25°26 | 6°45 | n.a. | M 8 |
| T 9 | 7 0 7 | 16°16'01 | 23°39 | 4°23 | 4°41 | 15°18 | 28°43 | 15°27 | 16°33 | 26° 1 | 4°17 | 26°22 | 25°23 | 6°52 | n.a. | T 9 |
| W10 | 7 4 4 | 17°16'49 | 6♐57 | 5°30 | 5°52 | 15°58 | 28°51 | 15°32 | 16°30 | 25°59 | 4°16 | 26°23 | 25°20 | 6°58 | n.a. | W10 |
| T 11 | 7 8 0 | 18°17'37 | 20°40 | 6°29 | 7° 3 | 16°38 | 29° 0 | 15°37 | 16°28 | 25°58 | 4°15 | 26°R24 | 25°17 | 7° 5 | n.a. | T 11 |
| F 12 | 7 11 57 | 19°18'22 | 4♑48 | 7°21 | 8°15 | 17°19 | 29° 9 | 15°43 | 16°26 | 25°56 | 4°14 | 26°24 | 25°13 | 7°12 | n.a. | F 12 |
| S 13 | 7 15 53 | 20°19'07 | 19°17 | 8° 5 | 9°26 | 17°59 | 29°18 | 15°48 | 16°24 | 25°55 | 4°13 | 26°23 | 25°10 | 7°18 | n.a. | S 13 |
| S 14 | 7 19 50 | 21°19'50 | 4♒ 2 | 8°39 | 10°37 | 18°39 | 29°27 | 15°54 | 16°22 | 25°53 | 4°13 | 26°20 | 25° 7 | 7°25 | n.a. | S 14 |
| M15 | 7 23 47 | 22°20'31 | 18°55 | 9° 4 | 11°49 | 19°19 | 29°36 | 15°59 | 16°20 | 25°52 | 4°12 | 26°16 | 25° 4 | 7°32 | n.a. | M15 |
| T 16 | 7 27 43 | 23°21'10 | 3♓48 | 9°18 | 13° 0 | 19°59 | 29°45 | 16° 5 | 16°18 | 25°50 | 4°11 | 26°13 | 25° 1 | 7°39 | n.a. | T 16 |
| W17 | 7 31 40 | 24°21'48 | 18°32 | 9°R23 | 14°12 | 20°39 | 29°55 | 16°10 | 16°16 | 25°49 | 4°10 | 26° 9 | 24°58 | 7°45 | n.a. | W17 |
| T 18 | 7 35 36 | 25°22'24 | 3♈ 2 | 9°16 | 15°23 | 21°19 | 0♈ 4 | 16°16 | 16°15 | 25°47 | 4°10 | 26° 6 | 24°54 | 7°52 | n.a. | T 18 |
| F 19 | 7 39 33 | 26°22'57 | 17°14 | 8°59 | 16°35 | 22° 0 | 0°14 | 16°22 | 16°13 | 25°46 | 4° 9 | 26° 4 | 24°51 | 7°59 | n.a. | F 19 |
| S 20 | 7 43 29 | 27°23'29 | 1♉ 6 | 8°32 | 17°47 | 22°40 | 0°24 | 16°28 | 16°11 | 25°44 | 4° 8 | 26°D 4 | 24°48 | 8° 5 | n.a. | S 20 |
| S 21 | 7 47 26 | 28°23'59 | 14°38 | 7°56 | 18°58 | 23°20 | 0°34 | 16°34 | 16° 9 | 25°43 | 4° 8 | 26° 5 | 24°45 | 8°12 | n.a. | S 21 |
| M22 | 7 51 22 | 29°24'27 | 27°51 | 7°12 | 20°10 | 24° 0 | 0°44 | 16°40 | 16° 8 | 25°42 | 4° 7 | 26° 6 | 24°42 | 8°19 | n.a. | M22 |
| T 23 | 7 55 19 | 0♒24'53 | 10♊48 | 6°20 | 21°22 | 24°40 | 0°54 | 16°46 | 16° 6 | 25°40 | 4° 6 | 26° 8 | 24°38 | 8°26 | n.a. | T 23 |
| W24 | 7 59 16 | 1°25'17 | 23°31 | 5°22 | 22°34 | 25°20 | 1° 5 | 16°52 | 16° 4 | 25°39 | 4° 6 | 26°R 9 | 24°35 | 8°32 | n.a. | W24 |
| T 25 | 8 3 12 | 2°25'39 | 6♋ 2 | 4°20 | 23°46 | 26° 1 | 1°15 | 16°58 | 16° 3 | 25°38 | 4° 5 | 26° 9 | 24°32 | 8°39 | n.a. | T 25 |
| F 26 | 8 7 9 | 3°25'59 | 18°23 | 3°16 | 24°58 | 26°41 | 1°26 | 17° 4 | 16° 1 | 25°36 | 4° 5 | 26° 6 | 24°29 | 8°46 | n.a. | F 26 |
| S 27 | 8 11 5 | 4°26'17 | 0♌35 | 2°10 | 26°10 | 27°21 | 1°36 | 17°10 | 16° 0 | 25°35 | 4° 4 | 26° 2 | 24°26 | 8°52 | n.a. | S 27 |
| S 28 | 8 15 2 | 5°26'34 | 12°40 | 1° 5 | 27°22 | 28° 1 | 1°47 | 17°17 | 15°58 | 25°34 | 4° 4 | 25°56 | 24°23 | 8°59 | n.a. | S 28 |
| M29 | 8 18 58 | 6°26'48 | 24°40 | 0° 2 | 28°34 | 28°41 | 1°58 | 17°23 | 15°57 | 25°33 | 4° 3 | 25°49 | 24°19 | 9° 6 | n.a. | M29 |
| T 30 | 8 22 55 | 7°27'01 | 6♍34 | 29♑ 3 | 29°46 | 29°21 | 2° 9 | 17°30 | 15°55 | 25°32 | 4° 3 | 25°40 | 24°16 | 9°13 | n.a. | T 30 |
| W31 | 8 26 51 | 8♒27'11 | 18♍27 | 28♑ 8 | 0♑58 | 0♐ 2 | 2♈20 | 17♓36 | 15♊54 | 25♊30 | 4♊ 2 | 25♊32 | 24♊13 | 9♍19 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| M 1 | 23s27 | 19n58 | 4n 2 | 23s10 | 1s25 | 17s 1 | 2n21 | 14s18 | 0n42 | 2s 9 | 1s19 | 8s14 | 2s23 | 23n15 | 0n12 | 22n52 | 0s47 | 15n56 | 5s25 | 23n39 | 23n38 | 13n55 | | | n.a. |
| T 2 | 23 23 | 16 34 | 4 39 | 22 45 | 1 17 | 17 20 | 2 18 | 14 31 | 0 41 | 2 6 | 1 19 | 8 12 | 2 23 | 23 14 | 0 12 | 22 52 | 0 46 | 15 56 | 5 25 | 23 39 | 23 38 | 13 52 | | | n.a. |
| W 3 | 23 18 | 12 31 | 5 3 | 22 19 | 1 8 | 17 38 | 2 16 | 14 44 | 0 41 | 2 2 | 1 18 | 8 10 | 2 23 | 23 14 | 0 12 | 22 52 | 0 46 | 15 55 | 5 25 | 23 39 | 23 38 | 13 50 | | | n.a. |
| T 4 | 23 13 | 8 1 | 5 15 | 21 51 | 0 59 | 17 56 | 2 13 | 14 57 | 0 40 | 1 59 | 1 18 | 8 8 | 2 22 | 23 14 | 0 12 | 22 52 | 0 46 | 15 55 | 5 25 | 23 39 | 23 38 | 13 48 | | | n.a. |
| F 5 | 23 8 | 3 13 | 5 13 | 21 22 | 0 48 | 18 14 | 2 11 | 15 10 | 0 39 | 1 56 | 1 18 | 8 6 | 2 22 | 23 14 | 0 12 | 22 52 | 0 46 | 15 55 | 5 25 | 23 39 | 23 38 | 13 46 | | | n.a. |
| S 6 | 23 2 | 1s46 | 4 58 | 20 53 | 0 37 | 18 31 | 2 8 | 15 23 | 0 39 | 1 52 | 1 18 | 8 4 | 2 22 | 23 13 | 0 12 | 22 52 | 0 46 | 15 55 | 5 25 | 23 39 | 23 38 | 13 43 | | | n.a. |
| S 7 | 22 56 | 6 47 | 4 28 | 20 22 | 0 25 | 18 48 | 2 6 | 15 36 | 0 38 | 1 49 | 1 17 | 8 2 | 2 22 | 23 13 | 0 12 | 22 52 | 0 46 | 15 55 | 5 25 | 23 39 | 23 38 | 13 41 | | | n.a. |
| M 8 | 22 49 | 11 38 | 3 46 | 19 52 | 0 12 | 19 5 | 2 3 | 15 48 | 0 38 | 1 45 | 1 17 | 8 0 | 2 22 | 23 13 | 0 12 | 22 52 | 0 46 | 15 55 | 5 24 | 23 39 | 23 37 | 13 39 | | | n.a. |
| T 9 | 22 42 | 16 8 | 2 51 | 19 21 | 0n 2 | 19 21 | 2 0 | 16 1 | 0 37 | 1 41 | 1 17 | 7 58 | 2 21 | 23 13 | 0 12 | 22 52 | 0 46 | 15 55 | 5 24 | 23 39 | 23 37 | 13 37 | | | n.a. |
| W10 | 22 34 | 19 59 | 1 45 | 18 51 | 0 16 | 19 36 | 1 57 | 16 13 | 0 36 | 1 38 | 1 16 | 7 56 | 2 21 | 23 13 | 0 12 | 22 52 | 0 46 | 15 55 | 5 24 | 23 39 | 23 37 | 13 34 | | | n.a. |
| T 11 | 22 26 | 22 51 | 0 32 | 18 21 | 0 32 | 19 51 | 1 54 | 16 26 | 0 36 | 1 34 | 1 16 | 7 53 | 2 21 | 23 12 | 0 12 | 22 52 | 0 46 | 15 55 | 5 24 | 23 39 | 23 37 | 13 32 | | | n.a. |
| F 12 | 22 18 | 24 23 | 0s46 | 17 52 | 0 47 | 20 5 | 1 51 | 16 38 | 0 35 | 1 30 | 1 16 | 7 51 | 2 21 | 23 12 | 0 12 | 22 52 | 0 46 | 15 55 | 5 24 | 23 39 | 23 37 | 13 30 | | | n.a. |
| S 13 | 22 9 | 24 19 | 2 3 | 17 25 | 1 4 | 20 19 | 1 48 | 16 50 | 0 34 | 1 26 | 1 16 | 7 49 | 2 21 | 23 12 | 0 12 | 22 52 | 0 46 | 15 55 | 5 24 | 23 39 | 23 37 | 13 27 | | | n.a. |
| S 14 | 21 59 | 22 34 | 3 12 | 17 0 | 1 21 | 20 33 | 1 45 | 17 2 | 0 34 | 1 22 | 1 15 | 7 47 | 2 20 | 23 12 | 0 12 | 22 52 | 0 46 | 15 55 | 5 24 | 23 39 | 23 37 | 13 25 | | | n.a. |
| M15 | 21 50 | 19 16 | 4 9 | 16 37 | 1 38 | 20 46 | 1 42 | 17 13 | 0 33 | 1 19 | 1 15 | 7 44 | 2 20 | 23 12 | 0 12 | 22 52 | 0 46 | 15 55 | 5 23 | 23 39 | 23 37 | 13 23 | | | n.a. |
| T 16 | 21 39 | 14 43 | 4 50 | 16 17 | 1 55 | 20 58 | 1 39 | 17 25 | 0 32 | 1 15 | 1 15 | 7 42 | 2 20 | 23 11 | 0 12 | 22 52 | 0 46 | 15 55 | 5 23 | 23 39 | 23 36 | 13 20 | | | n.a. |
| W17 | 21 29 | 9 20 | 5 10 | 16 0 | 2 11 | 21 10 | 1 36 | 17 36 | 0 31 | 1 10 | 1 15 | 7 39 | 2 20 | 23 11 | 0 12 | 22 52 | 0 46 | 15 55 | 5 23 | 23 39 | 23 36 | 13 18 | | | n.a. |
| T 18 | 21 18 | 3 31 | 5 11 | 15 46 | 2 28 | 21 21 | 1 33 | 17 48 | 0 31 | 1 6 | 1 14 | 7 37 | 2 20 | 23 11 | 0 12 | 22 52 | 0 46 | 15 55 | 5 23 | 23 39 | 23 36 | 13 16 | | | n.a. |
| F 19 | 21 6 | 2n21 | 4 52 | 15 35 | 2 43 | 21 32 | 1 30 | 17 59 | 0 30 | 1 2 | 1 14 | 7 35 | 2 20 | 23 11 | 0 12 | 22 52 | 0 46 | 15 55 | 5 23 | 23 39 | 23 36 | 13 14 | | | n.a. |
| S 20 | 20 55 | 7 59 | 4 17 | 15 28 | 2 58 | 21 42 | 1 26 | 18 10 | 0 29 | 0 58 | 1 14 | 7 32 | 2 19 | 23 11 | 0 12 | 22 52 | 0 46 | 15 55 | 5 23 | 23 39 | 23 36 | 13 11 | | | n.a. |
| S 21 | 20 43 | 13 6 | 3 28 | 15 25 | 3 11 | 21 52 | 1 23 | 18 21 | 0 28 | 0 54 | 1 14 | 7 30 | 2 19 | 23 10 | 0 12 | 22 52 | 0 46 | 15 55 | 5 22 | 23 39 | 23 36 | 13 9 | | | n.a. |
| M22 | 20 30 | 17 29 | 2 28 | 15 25 | 3 22 | 22 1 | 1 20 | 18 32 | 0 28 | 0 50 | 1 13 | 7 27 | 2 19 | 23 10 | 0 12 | 22 52 | 0 46 | 15 55 | 5 22 | 23 39 | 23 36 | 13 7 | | | n.a. |
| T 23 | 20 17 | 20 57 | 1 23 | 15 28 | 3 32 | 22 9 | 1 16 | 18 43 | 0 27 | 0 45 | 1 13 | 7 25 | 2 19 | 23 10 | 0 12 | 22 52 | 0 46 | 15 55 | 5 22 | 23 39 | 23 36 | 13 4 | | | n.a. |
| W24 | 20 4 | 23 18 | 0 14 | 15 35 | 3 40 | 22 17 | 1 13 | 18 53 | 0 26 | 0 41 | 1 13 | 7 22 | 2 19 | 23 10 | 0 12 | 22 52 | 0 46 | 15 56 | 5 22 | 23 39 | 23 35 | 13 2 | | | n.a. |
| T 25 | 19 50 | 24 27 | 0n54 | 15 44 | 3 46 | 22 24 | 1 10 | 19 4 | 0 25 | 0 36 | 1 13 | 7 20 | 2 19 | 23 10 | 0 12 | 22 52 | 0 46 | 15 56 | 5 22 | 23 39 | 23 35 | 13 0 | | | n.a. |
| F 26 | 19 36 | 24 22 | 1 58 | 15 56 | 3 49 | 22 30 | 1 6 | 19 14 | 0 25 | 0 32 | 1 13 | 7 17 | 2 19 | 23 10 | 0 12 | 22 52 | 0 46 | 15 56 | 5 22 | 23 39 | 23 35 | 12 57 | | | n.a. |
| S 27 | 19 22 | 23 7 | 2 56 | 16 9 | 3 50 | 22 36 | 1 3 | 19 24 | 0 24 | 0 28 | 1 12 | 7 14 | 2 18 | 23 9 | 0 12 | 22 52 | 0 46 | 15 56 | 5 22 | 23 39 | 23 35 | 12 55 | | | n.a. |
| S 28 | 19 7 | 20 47 | 3 46 | 16 24 | 3 49 | 22 41 | 1 0 | 19 34 | 0 23 | 0 23 | 1 12 | 7 12 | 2 18 | 23 9 | 0 12 | 22 52 | 0 46 | 15 56 | 5 21 | 23 38 | 23 35 | 12 52 | | | n.a. |
| M29 | 18 52 | 17 35 | 4 24 | 16 41 | 3 46 | 22 46 | 0 56 | 19 44 | 0 22 | 0 18 | 1 12 | 7 9 | 2 18 | 23 9 | 0 12 | 22 52 | 0 46 | 15 56 | 5 21 | 23 38 | 23 35 | 12 50 | | | n.a. |
| T 30 | 18 37 | 13 42 | 4 52 | 16 58 | 3 41 | 22 49 | 0 53 | 19 53 | 0 21 | 0 14 | 1 12 | 7 6 | 2 18 | 23 9 | 0 12 | 22 52 | 0 46 | 15 56 | 5 21 | 23 38 | 23 35 | 12 48 | | | n.a. |
| W31 | 18s21 | 9n18 | 5n 6 | 17s16 | 3n34 | 22s53 | 0n49 | 20s 3 | 0n20 | 0s 9 | 1s11 | 7s 4 | 2s18 | 23n 9 | 0n12 | 22n52 | 0s46 | 15n56 | 5s21 | 23n38 | 23n35 | 12n45 | | | n.a. |

Julian Day Number = 1697681.5, Delta T = 03h07m12s
Ecliptic obliquity = 23°42'11, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°57'41, Lahiri = - 4°50'40 Julian Calendar 1 Jan. 65 BCE == Greg. Calendar 30 Dec. 066 BCE

The year -64 astronomical counting style corresponds to year 065 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 65 BCE
# geocentric

## FEBRUARY 65 BCE (-64) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 30 48 | 9♒27'20 | 0♎19 | 27°R19 | 2♋10 | 0♐42 | 2♈31 | 17♓43 | 15°R53 | 25°R29 | 4°R 2 | 25°R25 | 24♊10 | 9♍26 | n.a. | T 1 |
| F 2 | 8 34 45 | 10°27'28 | 12°13 | 26♋35 | 3°23 | 1°22 | 2°42 | 17°49 | 15♊52 | 25♊28 | 4♊ 1 | 25♊19 | 24° 7 | 9°33 | n.a. | F 2 |
| S 3 | 8 38 41 | 11°27'33 | 24°15 | 25°59 | 4°35 | 2° 2 | 2°54 | 17°56 | 15°51 | 25°27 | 4° 1 | 25°15 | 24° 4 | 9°39 | n.a. | S 3 |
| S 4 | 8 42 38 | 12°27'37 | 6♏27 | 25°29 | 5°47 | 2°42 | 3° 5 | 18° 3 | 15°49 | 25°26 | 4° 1 | 25°14 | 24° 0 | 9°46 | n.a. | S 4 |
| M 5 | 8 46 34 | 13°27'40 | 18°54 | 25° 6 | 7° 0 | 3°23 | 3°16 | 18° 9 | 15°48 | 25°25 | 4° 0 | 25°D14 | 23°57 | 9°53 | n.a. | M 5 |
| T 6 | 8 50 31 | 14°27'40 | 1♐42 | 24°49 | 8°12 | 4° 3 | 3°28 | 18°16 | 15°47 | 25°24 | 4° 0 | 25°15 | 23°54 | 10° 0 | n.a. | T 6 |
| W 7 | 8 54 27 | 15°27'39 | 14°54 | 24°40 | 9°24 | 4°43 | 3°40 | 18°23 | 15°46 | 25°23 | 4° 0 | 25°16 | 23°51 | 10° 6 | n.a. | W 7 |
| T 8 | 8 58 24 | 16°27'36 | 28°33 | 24°D37 | 10°37 | 5°23 | 3°52 | 18°30 | 15°45 | 25°22 | 4° 0 | 25°R16 | 23°48 | 10°13 | n.a. | T 8 |
| F 9 | 9 2 20 | 17°27'32 | 12♋41 | 24°40 | 11°49 | 6° 3 | 4° 3 | 18°37 | 15°45 | 25°21 | 3°59 | 25°15 | 23°44 | 10°20 | n.a. | F 9 |
| S 10 | 9 6 17 | 18°27'25 | 27°16 | 24°50 | 13° 2 | 6°43 | 4°15 | 18°44 | 15°44 | 25°20 | 3°59 | 25°11 | 23°41 | 10°27 | n.a. | S 10 |
| S 11 | 9 10 14 | 19°27'17 | 12♒14 | 25° 5 | 14°14 | 7°24 | 4°27 | 18°51 | 15°43 | 25°19 | 3°59 | 25° 5 | 23°38 | 10°33 | n.a. | S 11 |
| M12 | 9 14 10 | 20°27'06 | 27°25 | 25°25 | 15°27 | 8° 4 | 4°40 | 18°58 | 15°42 | 25°19 | 3°59 | 24°57 | 23°35 | 10°40 | n.a. | M12 |
| T 13 | 9 18 7 | 21°26'54 | 12♓39 | 25°51 | 16°39 | 8°44 | 4°52 | 19° 5 | 15°42 | 25°18 | 3°59 | 24°49 | 23°32 | 10°47 | n.a. | T 13 |
| W14 | 9 22 3 | 22°26'39 | 27°47 | 26°21 | 17°52 | 9°24 | 5° 4 | 19°12 | 15°41 | 25°17 | 3°58 | 24°40 | 23°29 | 10°53 | n.a. | W14 |
| T 15 | 9 26 0 | 23°26'21 | 12♈37 | 26°55 | 19° 4 | 10° 4 | 5°16 | 19°19 | 15°40 | 25°16 | 3°58 | 24°33 | 23°25 | 11° 0 | n.a. | T 15 |
| F 16 | 9 29 56 | 24°26'02 | 27° 5 | 27°34 | 20°17 | 10°44 | 5°29 | 19°26 | 15°40 | 25°16 | 3°58 | 24°27 | 23°22 | 11° 7 | n.a. | F 16 |
| S 17 | 9 33 53 | 25°25'40 | 11♉ 5 | 28°17 | 21°29 | 11°24 | 5°41 | 19°34 | 15°40 | 25°15 | 3°58 | 24°24 | 23°19 | 11°14 | n.a. | S 17 |
| S 18 | 9 37 49 | 26°25'16 | 24°39 | 29° 3 | 22°42 | 12° 4 | 5°54 | 19°41 | 15°39 | 25°14 | 3°58 | 24°D23 | 23°16 | 11°20 | n.a. | S 18 |
| M19 | 9 41 46 | 27°24'49 | 7♊48 | 29°53 | 23°55 | 12°44 | 6° 6 | 19°48 | 15°39 | 25°14 | 3°D58 | 24°24 | 23°13 | 11°27 | n.a. | M19 |
| T 20 | 9 45 42 | 28°24'20 | 20°36 | 0♒45 | 25° 7 | 13°24 | 6°19 | 19°56 | 15°39 | 25°13 | 3°58 | 24°R24 | 23°10 | 11°34 | n.a. | T 20 |
| W21 | 9 49 39 | 29°23'48 | 3♋ 7 | 1°41 | 26°20 | 14° 4 | 6°32 | 20° 3 | 15°38 | 25°12 | 3°58 | 24°24 | 23° 6 | 11°40 | n.a. | W21 |
| T 22 | 9 53 36 | 0♓23'15 | 15°25 | 2°40 | 27°33 | 14°44 | 6°45 | 20°10 | 15°38 | 25°12 | 3°58 | 24°22 | 23° 3 | 11°47 | n.a. | T 22 |
| F 23 | 9 57 32 | 1°22'39 | 27°33 | 3°42 | 28°45 | 15°24 | 6°57 | 20°18 | 15°38 | 25°11 | 3°58 | 24°17 | 23° 0 | 11°54 | n.a. | F 23 |
| S 24 | 10 1 29 | 2°22'00 | 9♌35 | 4°46 | 29°58 | 16° 4 | 7°10 | 20°25 | 15°38 | 25°11 | 3°58 | 24° 9 | 22°57 | 12° 1 | n.a. | S 24 |
| S 25 | 10 5 25 | 3°21'19 | 21°32 | 5°52 | 1♒11 | 16°44 | 7°23 | 20°33 | 15°D38 | 25°11 | 3°59 | 23°59 | 22°54 | 12° 7 | n.a. | S 25 |
| M26 | 10 9 22 | 4°20'36 | 3♍26 | 7° 1 | 2°23 | 17°24 | 7°36 | 20°40 | 15°38 | 25°10 | 3°59 | 23°47 | 22°50 | 12°14 | n.a. | M26 |
| T 27 | 10 13 18 | 5°19'51 | 15°19 | 8°12 | 3°36 | 18° 4 | 7°49 | 20°48 | 15°38 | 25°10 | 3°59 | 23°34 | 22°47 | 12°21 | n.a. | T 27 |
| W28 | 10 17 15 | 6°19'04 | 27°11 | 9°25 | 4°49 | 18°44 | 8° 3 | 20°55 | 15°38 | 25° 9 | 3°59 | 23°20 | 22°44 | 12°28 | n.a. | W28 |
| T 29 | 10 21 11 | 7♓18'15 | 9♎ 6 | 10♒40 | 6♒ 2 | 19♐24 | 8♈16 | 21♓ 3 | 15♊38 | 25♊ 9 | 3♊59 | 23♊ 8 | 22♊41 | 12♍34 | n.a. | T 29 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 18s 5 | 4n34 | 5n 7 | 17s34 | 3n26 | 22s55 | 0n46 | 20s12 | 0n19 | 0s 5 | 1s11 | 7s 1 | 2s18 | 23n 9 | 0n12 | 22n52 | 0s46 | 15n56 | 5s21 | 23n37 | 23n34 | 12n43 | | n.a. |
| F 2 | 17 49 | 0s22 | 4 55 | 17 52 | 3 16 | 22 57 | 0 43 | 20 22 | 0 19 | 0n 0 | 1 11 | 6 58 | 2 18 | 23 9 | 0 12 | 22 52 | 0 46 | 15 56 | 5 21 | 23 37 | 23 34 | 12 41 | | n.a. |
| S 3 | 17 32 | 5 19 | 4 30 | 18 9 | 3 5 | 22 58 | 0 39 | 20 31 | 0 18 | 0 5 | 1 11 | 6 56 | 2 17 | 23 9 | 0 12 | 22 52 | 0 46 | 15 56 | 5 20 | 23 37 | 23 34 | 12 38 | | n.a. |
| S 4 | 17 15 | 10 10 | 3 52 | 18 26 | 2 53 | 22 59 | 0 36 | 20 39 | 0 17 | 0 10 | 1 11 | 6 53 | 2 17 | 23 8 | 0 12 | 22 52 | 0 46 | 15 56 | 5 20 | 23 37 | 23 34 | 12 36 | | n.a. |
| M 5 | 16 58 | 14 42 | 3 3 | 18 43 | 2 41 | 22 59 | 0 32 | 20 48 | 0 16 | 0 14 | 1 10 | 6 50 | 2 17 | 23 8 | 0 12 | 22 52 | 0 46 | 15 56 | 5 20 | 23 37 | 23 34 | 12 33 | | n.a. |
| T 6 | 16 40 | 18 43 | 2 3 | 18 58 | 2 28 | 22 58 | 0 29 | 20 57 | 0 15 | 0 19 | 1 10 | 6 47 | 2 17 | 23 8 | 0 12 | 22 52 | 0 46 | 15 57 | 5 20 | 23 37 | 23 34 | 12 31 | | n.a. |
| W 7 | 16 23 | 21 55 | 0 56 | 19 13 | 2 15 | 22 56 | 0 26 | 21 5 | 0 14 | 0 24 | 1 10 | 6 44 | 2 17 | 23 8 | 0 12 | 22 52 | 0 46 | 15 57 | 5 20 | 23 37 | 23 33 | 12 29 | | n.a. |
| T 8 | 16 5 | 23 59 | 0s18 | 19 27 | 2 2 | 22 54 | 0 22 | 21 13 | 0 13 | 0 29 | 1 10 | 6 42 | 2 17 | 23 8 | 0 12 | 22 52 | 0 46 | 15 57 | 5 20 | 23 37 | 23 33 | 12 26 | | n.a. |
| F 9 | 15 46 | 24 37 | 1 32 | 19 39 | 1 48 | 22 51 | 0 19 | 21 22 | 0 12 | 0 34 | 1 10 | 6 39 | 2 17 | 23 8 | 0 12 | 22 52 | 0 46 | 15 57 | 5 19 | 23 37 | 23 33 | 12 24 | | n.a. |
| S 10 | 15 28 | 23 36 | 2 43 | 19 51 | 1 35 | 22 48 | 0 16 | 21 29 | 0 11 | 0 39 | 1 9 | 6 36 | 2 17 | 23 8 | 0 12 | 22 52 | 0 45 | 15 57 | 5 19 | 23 37 | 23 33 | 12 21 | | n.a. |
| S 11 | 15 9 | 20 54 | 3 44 | 20 1 | 1 21 | 22 44 | 0 12 | 21 37 | 0 10 | 0 44 | 1 9 | 6 33 | 2 17 | 23 8 | 0 12 | 22 52 | 0 45 | 15 57 | 5 19 | 23 37 | 23 33 | 12 19 | | n.a. |
| M12 | 14 50 | 16 44 | 4 31 | 20 10 | 1 8 | 22 39 | 0 9 | 21 45 | 0 9 | 0 49 | 1 9 | 6 30 | 2 17 | 23 8 | 0 12 | 22 52 | 0 45 | 15 57 | 5 19 | 23 36 | 23 33 | 12 17 | | n.a. |
| T 13 | 14 31 | 11 28 | 4 58 | 20 18 | 0 55 | 22 33 | 0 6 | 21 52 | 0 8 | 0 54 | 1 9 | 6 27 | 2 16 | 23 8 | 0 12 | 22 52 | 0 45 | 15 58 | 5 19 | 23 36 | 23 33 | 12 14 | | n.a. |
| W14 | 14 11 | 5 32 | 5 4 | 20 25 | 0 42 | 22 27 | 0 3 | 21 59 | 0 7 | 0 59 | 1 9 | 6 24 | 2 16 | 23 8 | 0 12 | 22 52 | 0 45 | 15 58 | 5 18 | 23 36 | 23 32 | 12 12 | | n.a. |
| T 15 | 13 51 | 0n36 | 4 50 | 20 31 | 0 30 | 22 20 | 0s 0 | 22 7 | 0 6 | 1 4 | 1 9 | 6 21 | 2 16 | 23 7 | 0 12 | 22 52 | 0 45 | 15 58 | 5 18 | 23 35 | 23 32 | 12 9 | | n.a. |
| F 16 | 13 31 | 6 33 | 4 17 | 20 35 | 0 18 | 22 13 | 0 4 | 22 13 | 0 5 | 1 9 | 1 8 | 6 18 | 2 16 | 23 7 | 0 12 | 22 52 | 0 45 | 15 58 | 5 18 | 23 35 | 23 32 | 12 7 | | n.a. |
| S 17 | 13 11 | 12 0 | 3 30 | 20 38 | 0 6 | 22 5 | 0 7 | 22 20 | 0 4 | 1 14 | 1 8 | 6 16 | 2 16 | 23 7 | 0 12 | 22 52 | 0 45 | 15 58 | 5 18 | 23 35 | 23 32 | 12 4 | | n.a. |
| S 18 | 12 51 | 16 41 | 2 32 | 20 39 | 0s 5 | 21 56 | 0 10 | 22 27 | 0 3 | 1 20 | 1 8 | 6 13 | 2 16 | 23 7 | 0 12 | 22 52 | 0 45 | 15 58 | 5 18 | 23 35 | 23 32 | 12 2 | | n.a. |
| M19 | 12 30 | 20 25 | 1 27 | 20 39 | 0 16 | 21 46 | 0 13 | 22 33 | 0 2 | 1 25 | 1 8 | 6 10 | 2 16 | 23 7 | 0 12 | 22 52 | 0 45 | 15 58 | 5 18 | 23 35 | 23 32 | 12 0 | | n.a. |
| T 20 | 12 9 | 23 2 | 0 20 | 20 38 | 0 26 | 21 36 | 0 16 | 22 39 | 0 0 | 1 30 | 1 8 | 6 7 | 2 16 | 23 7 | 0 12 | 22 52 | 0 45 | 15 59 | 5 17 | 23 35 | 23 31 | 11 57 | | n.a. |
| W21 | 11 49 | 24 26 | 0n46 | 20 35 | 0 36 | 21 26 | 0 19 | 22 45 | 0s 1 | 1 35 | 1 8 | 6 4 | 2 16 | 23 7 | 0 12 | 22 52 | 0 45 | 15 59 | 5 17 | 23 35 | 23 31 | 11 55 | | n.a. |
| T 22 | 11 27 | 24 37 | 1 49 | 20 31 | 0 46 | 21 14 | 0 22 | 22 51 | 0 2 | 1 41 | 1 7 | 6 1 | 2 16 | 23 7 | 0 12 | 22 52 | 0 45 | 15 59 | 5 17 | 23 35 | 23 31 | 11 52 | | n.a. |
| F 23 | 11 6 | 23 36 | 2 47 | 20 26 | 0 55 | 21 2 | 0 25 | 22 57 | 0 3 | 1 46 | 1 7 | 5 58 | 2 16 | 23 7 | 0 12 | 22 52 | 0 45 | 15 59 | 5 17 | 23 35 | 23 31 | 11 50 | | n.a. |
| S 24 | 10 45 | 21 30 | 3 36 | 20 19 | 1 4 | 20 50 | 0 28 | 23 2 | 0 4 | 1 51 | 1 7 | 5 55 | 2 16 | 23 7 | 0 12 | 22 52 | 0 45 | 15 59 | 5 17 | 23 34 | 23 31 | 11 47 | | n.a. |
| S 25 | 10 23 | 18 29 | 4 15 | 20 10 | 1 12 | 20 37 | 0 30 | 23 7 | 0 5 | 1 56 | 1 7 | 5 52 | 2 16 | 23 7 | 0 12 | 22 52 | 0 45 | 16 0 | 5 17 | 23 34 | 23 31 | 11 45 | | n.a. |
| M26 | 10 1 | 14 44 | 4 42 | 20 1 | 1 20 | 20 23 | 0 33 | 23 13 | 0 7 | 2 2 | 1 7 | 5 49 | 2 16 | 23 7 | 0 12 | 22 52 | 0 45 | 16 0 | 5 16 | 23 33 | 23 30 | 11 42 | | n.a. |
| T 27 | 9 40 | 10 25 | 4 58 | 19 49 | 1 27 | 20 9 | 0 36 | 23 17 | 0 8 | 2 7 | 1 7 | 5 46 | 2 16 | 23 7 | 0 12 | 22 52 | 0 45 | 16 0 | 5 16 | 23 33 | 23 30 | 11 40 | | n.a. |
| W28 | 9 18 | 5 42 | 5 0 | 19 36 | 1 34 | 19 54 | 0 38 | 23 22 | 0 9 | 2 13 | 1 6 | 5 43 | 2 15 | 23 7 | 0 12 | 22 52 | 0 45 | 16 0 | 5 16 | 23 32 | 23 30 | 11 37 | | n.a. |
| T 29 | 8s55 | 0n47 | 4n49 | 19s22 | 1s41 | 19s38 | 0s41 | 23s27 | 0s10 | 2n18 | 1s 6 | 5s40 | 2s15 | 23n 7 | 0n12 | 22n52 | 0s45 | 16n 0 | 5s16 | 23n31 | 23n30 | 11n35 | | n.a. |

Julian Day Number = 1697712.5, Delta T = 03h07m11s
Ecliptic obliquity = 23°42'11, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°57'37, Lahiri = - 4°50'36 Julian Calendar 1 Feb. 65 BCE == Greg. Calendar 30 Jan. 065 BCE

The year -64 astronomical counting style corresponds to year 065 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 65 BCE
# geocentric

## MARCH 65 BCE (-64) JC

**00:00 UT**

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 10 25 8 | 8♓17'23 | 21♎ 3 | 11♒57 | 7♒14 | 20♐ 4 | 8♈29 | 21♓10 | 15♊39 | 25°R 9 | 3♊59 | 22°R57 | 22♊38 | 12♍41 | n.a. | F 1 |
| S 2 | 10 29 5 | 9°16'30 | 3♏ 7 | 13°16 | 8°27 | 20°44 | 8°42 | 21°18 | 15°39 | 25♊ 9 | 4° 0 | 22♊50 | 22°35 | 12°48 | n.a. | S 2 |
| S 3 | 10 33 1 | 10°15'35 | 15°20 | 14°37 | 9°40 | 21°24 | 8°56 | 21°25 | 15°39 | 25° 8 | 4° 0 | 22°45 | 22°31 | 12°54 | n.a. | S 3 |
| M 4 | 10 36 58 | 11°14'38 | 27°46 | 15°59 | 10°53 | 22° 4 | 9° 9 | 21°33 | 15°40 | 25° 8 | 4° 0 | 22°42 | 22°28 | 13° 1 | n.a. | M 4 |
| T 5 | 10 40 54 | 12°13'39 | 10♐30 | 17°23 | 12° 6 | 22°44 | 9°23 | 21°40 | 15°40 | 25° 8 | 4° 1 | 22°D42 | 22°25 | 13° 8 | n.a. | T 5 |
| W 6 | 10 44 51 | 13°12'38 | 23°35 | 18°49 | 13°19 | 23°24 | 9°36 | 21°48 | 15°41 | 25° 8 | 4° 1 | 22°R42 | 22°22 | 13°15 | n.a. | W 6 |
| T 7 | 10 48 47 | 14°11'36 | 7♑ 6 | 20°17 | 14°31 | 24° 3 | 9°50 | 21°56 | 15°41 | 25° 8 | 4° 1 | 22°41 | 22°19 | 13°21 | n.a. | T 7 |
| F 8 | 10 52 44 | 15°10'32 | 21° 5 | 21°46 | 15°44 | 24°43 | 10° 3 | 22° 3 | 15°42 | 25°D 8 | 4° 2 | 22°39 | 22°15 | 13°28 | n.a. | F 8 |
| S 9 | 10 56 40 | 16° 9'26 | 5♒32 | 23°17 | 16°57 | 25°23 | 10°17 | 22°11 | 15°42 | 25° 8 | 4° 2 | 22°34 | 22°12 | 13°35 | n.a. | S 9 |
| S 10 | 11 0 37 | 17° 8'18 | 20°25 | 24°49 | 18°10 | 26° 3 | 10°30 | 22°19 | 15°43 | 25° 8 | 4° 3 | 22°27 | 22° 9 | 13°41 | n.a. | S 10 |
| M11 | 11 4 34 | 18° 7'08 | 5♓36 | 26°23 | 19°23 | 26°42 | 10°44 | 22°26 | 15°44 | 25° 8 | 4° 3 | 22°17 | 22° 6 | 13°48 | n.a. | M11 |
| T 12 | 11 8 30 | 19° 5'55 | 20°56 | 27°59 | 20°36 | 27°22 | 10°58 | 22°34 | 15°45 | 25° 8 | 4° 4 | 22° 6 | 22° 3 | 13°55 | n.a. | T 12 |
| W13 | 11 12 27 | 20° 4'41 | 6♈13 | 29°36 | 21°49 | 28° 1 | 11°12 | 22°42 | 15°46 | 25° 8 | 4° 4 | 21°55 | 22° 0 | 14° 2 | n.a. | W13 |
| T 14 | 11 16 23 | 21° 3'25 | 21°16 | 1♓15 | 23° 2 | 28°41 | 11°25 | 22°49 | 15°47 | 25° 8 | 4° 5 | 21°45 | 21°56 | 14° 8 | n.a. | T 14 |
| F 15 | 11 20 20 | 22° 2'06 | 5♉56 | 2°55 | 24°15 | 29°21 | 11°39 | 22°57 | 15°48 | 25° 9 | 4° 5 | 21°38 | 21°53 | 14°15 | n.a. | F 15 |
| S 16 | 11 24 16 | 23° 0'45 | 20° 8 | 4°37 | 25°28 | 0♑ 0 | 11°53 | 23° 5 | 15°49 | 25° 9 | 4° 6 | 21°33 | 21°50 | 14°22 | n.a. | S 16 |
| S 17 | 11 28 13 | 23°59'22 | 3♊50 | 6°21 | 26°41 | 0°40 | 12° 7 | 23°12 | 15°50 | 25° 9 | 4° 6 | 21°31 | 21°47 | 14°29 | n.a. | S 17 |
| M18 | 11 32 9 | 24°57'57 | 17° 4 | 8° 6 | 27°54 | 1°19 | 12°21 | 23°20 | 15°51 | 25° 9 | 4° 7 | 21°30 | 21°44 | 14°35 | n.a. | M18 |
| T 19 | 11 36 6 | 25°56'29 | 29°54 | 9°52 | 29° 6 | 1°58 | 12°35 | 23°28 | 15°52 | 25°10 | 4° 8 | 21°30 | 21°41 | 14°42 | n.a. | T 19 |
| W20 | 11 40 2 | 26°55'00 | 12♋23 | 11°40 | 0♓19 | 2°38 | 12°49 | 23°35 | 15°53 | 25°10 | 4° 8 | 21°29 | 21°37 | 14°49 | n.a. | W20 |
| T 21 | 11 43 59 | 27°53'27 | 24°36 | 13°30 | 1°32 | 3°17 | 13° 3 | 23°43 | 15°55 | 25°11 | 4° 9 | 21°27 | 21°34 | 14°55 | n.a. | T 21 |
| F 22 | 11 47 56 | 28°51'53 | 6♌39 | 15°22 | 2°45 | 3°56 | 13°17 | 23°51 | 15°56 | 25°11 | 4°10 | 21°22 | 21°31 | 15° 2 | n.a. | F 22 |
| S 23 | 11 51 52 | 29°50'16 | 18°35 | 17°15 | 3°58 | 4°35 | 13°31 | 23°58 | 15°57 | 25°11 | 4°10 | 21°15 | 21°28 | 15° 9 | n.a. | S 23 |
| S 24 | 11 55 49 | 0♈48'38 | 0♍27 | 19° 9 | 5°11 | 5°15 | 13°45 | 24° 6 | 15°59 | 25°12 | 4°11 | 21° 4 | 21°25 | 15°16 | n.a. | S 24 |
| M25 | 11 59 45 | 1°46'57 | 12°19 | 21° 5 | 6°24 | 5°54 | 13°59 | 24°14 | 16° 0 | 25°12 | 4°12 | 20°52 | 21°21 | 15°22 | n.a. | M25 |
| T 26 | 12 3 42 | 2°45'14 | 24°12 | 23° 3 | 7°37 | 6°33 | 14°13 | 24°21 | 16° 2 | 25°13 | 4°13 | 20°38 | 21°18 | 15°29 | n.a. | T 26 |
| W27 | 12 7 38 | 3°43'29 | 6♎ 7 | 25° 3 | 8°50 | 7°12 | 14°27 | 24°29 | 16° 3 | 25°14 | 4°13 | 20°25 | 21°15 | 15°36 | n.a. | W27 |
| T 28 | 12 11 35 | 4°41'42 | 18° 7 | 27° 4 | 10° 3 | 7°51 | 14°41 | 24°37 | 16° 5 | 25°14 | 4°14 | 20°12 | 21°12 | 15°42 | n.a. | T 28 |
| F 29 | 12 15 31 | 5°39'54 | 0♏12 | 29° 6 | 11°16 | 8°30 | 14°55 | 24°44 | 16° 7 | 25°15 | 4°15 | 20° 1 | 21° 9 | 15°49 | n.a. | F 29 |
| S 30 | 12 19 28 | 6°38'04 | 12°24 | 1♈10 | 12°29 | 9° 9 | 15° 9 | 24°52 | 16° 8 | 25°16 | 4°16 | 19°53 | 21° 6 | 15°56 | n.a. | S 30 |
| S 31 | 12 23 25 | 7♈36'12 | 24♏45 | 3♈15 | 13♓42 | 9♑47 | 15♈23 | 24♓59 | 16♊10 | 25♊16 | 4♊17 | 19♊48 | 21♊ 2 | 16♍ 3 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 8s33 | 4s12 | 4n26 | 19s 6 | 1s47 | 19s22 | 0s44 | 23s31 | 0s12 | 2n23 | 1s 6 | 5s37 | 2s15 | 23n 7 | 0n12 | 22n52 | 0s45 | 16n 1 | 5s16 | 23n31 | 23n30 | 11n33 | | n.a. |
| S 2 | 8 11 | 9 5 | 3 50 | 18 49 | 1 52 | 19 5 | 0 46 | 23 35 | 0 13 | 2 29 | 1 6 | 5 33 | 2 15 | 23 7 | 0 12 | 22 52 | 0 45 | 16 1 | 5 16 | 23 30 | 23 30 | 11 30 | | n.a. |
| S 3 | 7 48 | 13 41 | 3 4 | 18 30 | 1 57 | 18 48 | 0 49 | 23 39 | 0 14 | 2 34 | 1 6 | 5 30 | 2 15 | 23 7 | 0 12 | 22 52 | 0 45 | 16 1 | 5 15 | 23 30 | 23 29 | 11 28 | | n.a. |
| M 4 | 7 26 | 17 48 | 2 8 | 18 10 | 2 2 | 18 31 | 0 51 | 23 43 | 0 15 | 2 40 | 1 6 | 5 27 | 2 15 | 23 7 | 0 12 | 22 52 | 0 45 | 16 1 | 5 15 | 23 30 | 23 29 | 11 25 | | n.a. |
| T 5 | 7 3 | 21 13 | 1 4 | 17 48 | 2 6 | 18 12 | 0 53 | 23 47 | 0 17 | 2 45 | 1 6 | 5 24 | 2 15 | 23 7 | 0 12 | 22 52 | 0 45 | 16 1 | 5 15 | 23 30 | 23 29 | 11 23 | | n.a. |
| W 6 | 6 40 | 23 37 | 0s 5 | 17 24 | 2 10 | 17 54 | 0 56 | 23 50 | 0 18 | 2 51 | 1 6 | 5 21 | 2 15 | 23 7 | 0 12 | 22 52 | 0 45 | 16 2 | 5 15 | 23 30 | 23 29 | 11 20 | | n.a. |
| T 7 | 6 17 | 24 46 | 1 15 | 16 59 | 2 13 | 17 35 | 0 58 | 23 53 | 0 19 | 2 56 | 1 5 | 5 18 | 2 15 | 23 8 | 0 12 | 22 52 | 0 45 | 16 2 | 5 15 | 23 30 | 23 29 | 11 18 | | n.a. |
| F 8 | 5 54 | 24 24 | 2 24 | 16 33 | 2 16 | 17 15 | 1 0 | 23 57 | 0 21 | 3 1 | 1 5 | 5 15 | 2 15 | 23 8 | 0 12 | 22 52 | 0 45 | 16 2 | 5 14 | 23 30 | 23 28 | 11 15 | | n.a. |
| S 9 | 5 31 | 22 25 | 3 26 | 16 5 | 2 18 | 16 55 | 1 2 | 23 59 | 0 22 | 3 7 | 1 5 | 5 12 | 2 15 | 23 8 | 0 12 | 22 52 | 0 44 | 16 2 | 5 14 | 23 30 | 23 28 | 11 13 | | n.a. |
| S 10 | 5 8 | 18 52 | 4 15 | 15 35 | 2 20 | 16 34 | 1 4 | 24 2 | 0 24 | 3 13 | 1 5 | 5 9 | 2 15 | 23 8 | 0 12 | 22 52 | 0 44 | 16 3 | 5 14 | 23 29 | 23 28 | 11 10 | | n.a. |
| M11 | 4 45 | 14 0 | 4 48 | 15 4 | 2 21 | 16 13 | 1 6 | 24 5 | 0 25 | 3 18 | 1 5 | 5 6 | 2 15 | 23 8 | 0 12 | 22 52 | 0 44 | 16 3 | 5 14 | 23 29 | 23 28 | 11 8 | | n.a. |
| T 12 | 4 22 | 8 13 | 5 0 | 14 31 | 2 22 | 15 51 | 1 8 | 24 7 | 0 26 | 3 24 | 1 5 | 5 3 | 2 15 | 23 8 | 0 12 | 22 52 | 0 44 | 16 3 | 5 14 | 23 28 | 23 28 | 11 5 | | n.a. |
| W13 | 3 58 | 1 57 | 4 51 | 13 57 | 2 22 | 15 29 | 1 10 | 24 9 | 0 28 | 3 29 | 1 5 | 5 0 | 2 15 | 23 8 | 0 12 | 22 52 | 0 44 | 16 3 | 5 14 | 23 27 | 23 28 | 11 2 | | n.a. |
| T 14 | 3 35 | 4n21 | 4 22 | 13 21 | 2 22 | 15 7 | 1 12 | 24 11 | 0 29 | 3 35 | 1 5 | 4 57 | 2 15 | 23 8 | 0 12 | 22 52 | 0 44 | 16 4 | 5 13 | 23 27 | 23 27 | 11 0 | | n.a. |
| F 15 | 3 12 | 10 15 | 3 36 | 12 44 | 2 21 | 14 44 | 1 13 | 24 13 | 0 31 | 3 40 | 1 4 | 4 54 | 2 15 | 23 8 | 0 12 | 22 53 | 0 44 | 16 4 | 5 13 | 23 26 | 23 27 | 10 57 | | n.a. |
| S 16 | 2 48 | 15 27 | 2 37 | 12 5 | 2 20 | 14 21 | 1 15 | 24 14 | 0 32 | 3 46 | 1 4 | 4 51 | 2 15 | 23 8 | 0 12 | 22 53 | 0 44 | 16 4 | 5 13 | 23 26 | 23 27 | 10 55 | | n.a. |
| S 17 | 2 25 | 19 39 | 1 32 | 11 25 | 2 18 | 13 57 | 1 17 | 24 16 | 0 34 | 3 51 | 1 4 | 4 48 | 2 15 | 23 8 | 0 12 | 22 53 | 0 44 | 16 5 | 5 13 | 23 26 | 23 27 | 10 52 | | n.a. |
| M18 | 2 1 | 22 41 | 0 23 | 10 43 | 2 16 | 13 33 | 1 18 | 24 17 | 0 35 | 3 57 | 1 4 | 4 44 | 2 15 | 23 9 | 0 12 | 22 53 | 0 44 | 16 5 | 5 13 | 23 26 | 23 27 | 10 50 | | n.a. |
| T 19 | 1 38 | 24 26 | 0n44 | 10 0 | 2 13 | 13 9 | 1 20 | 24 18 | 0 37 | 4 2 | 1 4 | 4 41 | 2 15 | 23 9 | 0 12 | 22 53 | 0 44 | 16 5 | 5 13 | 23 26 | 23 26 | 10 47 | | n.a. |
| W20 | 1 14 | 24 55 | 1 48 | 9 15 | 2 10 | 12 44 | 1 21 | 24 19 | 0 38 | 4 8 | 1 4 | 4 38 | 2 15 | 23 9 | 0 12 | 22 53 | 0 44 | 16 5 | 5 12 | 23 26 | 23 26 | 10 45 | | n.a. |
| T 21 | 0 51 | 24 9 | 2 45 | 8 29 | 2 6 | 12 19 | 1 22 | 24 20 | 0 40 | 4 14 | 1 4 | 4 35 | 2 15 | 23 9 | 0 12 | 22 53 | 0 44 | 16 6 | 5 12 | 23 25 | 23 26 | 10 42 | | n.a. |
| F 22 | 0 27 | 22 16 | 3 34 | 7 42 | 2 1 | 11 54 | 1 24 | 24 20 | 0 42 | 4 19 | 1 4 | 4 32 | 2 15 | 23 9 | 0 12 | 22 53 | 0 44 | 16 6 | 5 12 | 23 25 | 23 26 | 10 40 | | n.a. |
| S 23 | 0 4 | 19 26 | 4 13 | 6 53 | 1 56 | 11 28 | 1 25 | 24 20 | 0 43 | 4 25 | 1 4 | 4 29 | 2 15 | 23 9 | 0 12 | 22 53 | 0 44 | 16 6 | 5 12 | 23 25 | 23 26 | 10 37 | | n.a. |
| S 24 | 0n20 | 15 48 | 4 41 | 6 2 | 1 51 | 11 2 | 1 26 | 24 21 | 0 45 | 4 30 | 1 4 | 4 26 | 2 15 | 23 9 | 0 12 | 22 53 | 0 44 | 16 7 | 5 12 | 23 24 | 23 25 | 10 35 | | n.a. |
| M25 | 0 43 | 11 34 | 4 57 | 5 10 | 1 45 | 10 36 | 1 27 | 24 21 | 0 46 | 4 36 | 1 3 | 4 23 | 2 16 | 23 10 | 0 12 | 22 53 | 0 44 | 16 7 | 5 12 | 23 23 | 23 25 | 10 32 | | n.a. |
| T 26 | 1 6 | 6 54 | 4 59 | 4 17 | 1 38 | 10 10 | 1 28 | 24 20 | 0 48 | 4 42 | 1 3 | 4 20 | 2 16 | 23 10 | 0 12 | 22 53 | 0 44 | 16 7 | 5 11 | 23 22 | 23 25 | 10 29 | | n.a. |
| W27 | 1 30 | 1 57 | 4 49 | 3 23 | 1 31 | 9 43 | 1 29 | 24 20 | 0 50 | 4 47 | 1 3 | 4 17 | 2 16 | 23 10 | 0 12 | 22 53 | 0 44 | 16 7 | 5 11 | 23 21 | 23 25 | 10 27 | | n.a. |
| T 28 | 1 53 | 3s 6 | 4 26 | 2 28 | 1 24 | 9 16 | 1 30 | 24 19 | 0 51 | 4 53 | 1 3 | 4 14 | 2 16 | 23 10 | 0 12 | 22 53 | 0 44 | 16 8 | 5 11 | 23 20 | 23 24 | 10 24 | | n.a. |
| F 29 | 2 16 | 8 5 | 3 50 | 1 31 | 1 16 | 8 48 | 1 30 | 24 19 | 0 53 | 4 58 | 1 3 | 4 11 | 2 16 | 23 10 | 0 12 | 22 53 | 0 44 | 16 8 | 5 11 | 23 19 | 23 24 | 10 22 | | n.a. |
| S 30 | 2 40 | 12 49 | 3 4 | 0 34 | 1 7 | 8 21 | 1 31 | 24 18 | 0 55 | 5 4 | 1 3 | 4 8 | 2 16 | 23 10 | 0 12 | 22 53 | 0 44 | 16 8 | 5 11 | 23 19 | 23 24 | 10 19 | | n.a. |
| S 31 | 3n 3 | 17s 5 | 2n 8 | 0n25 | 0s59 | 7s53 | 1s32 | 24s17 | 0s57 | 5n 9 | 1s 3 | 4s 5 | 2s16 | 23n11 | 0n12 | 22n53 | 0s44 | 16n 9 | 5s11 | 23n18 | 23n24 | 10n17 | | n.a. |

Julian Day Number = 1697741.5, Delta T = 03h07m10s
Ecliptic obliquity = 23°42'12, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°57'33, Lahiri = - 4°50'32 Julian Calendar 1 March 65 BCE == Greg. Calendar 28 Feb. 065 BCE

The year -64 astronomical counting style corresponds to year 065 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 65 BCE
# geocentric

## APRIL 65 BCE (-64) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 12 27 21 | 8♈34'19 | 7♐17 | 5♈21 | 14♓55 | 10♑26 | 15♈38 | 25♓ 7 | 16♊12 | 25♊17 | 4♊18 | 19°R46 | 20♊59 | 16♍ 9 | n.a. | M 1 |
| T 2 | 12 31 18 | 9°32'24 | 20° 4 | 7°29 | 16° 8 | 11° 5 | 15°52 | 25°14 | 16°14 | 25°18 | 4°19 | 19°D45 | 20°56 | 16°16 | n.a. | T 2 |
| W 3 | 12 35 14 | 10°30'27 | 3♑ 9 | 9°37 | 17°21 | 11°44 | 16° 6 | 25°22 | 16°16 | 25°19 | 4°19 | 19♊45 | 20°53 | 16°23 | n.a. | W 3 |
| T 4 | 12 39 11 | 11°28'30 | 16°35 | 11°46 | 18°34 | 12°22 | 16°20 | 25°29 | 16°18 | 25°20 | 4°20 | 19°R46 | 20°50 | 16°30 | n.a. | T 4 |
| F 5 | 12 43 7 | 12°26'30 | 0♒26 | 13°56 | 19°47 | 13° 1 | 16°34 | 25°37 | 16°20 | 25°20 | 4°21 | 19°44 | 20°47 | 16°36 | n.a. | F 5 |
| S 6 | 12 47 4 | 13°24'30 | 14°40 | 16° 5 | 21° 1 | 13°39 | 16°48 | 25°44 | 16°22 | 25°21 | 4°22 | 19°41 | 20°43 | 16°43 | n.a. | S 6 |
| S 7 | 12 51 0 | 14°22'28 | 29°19 | 18°15 | 22°14 | 14°17 | 17° 3 | 25°52 | 16°24 | 25°22 | 4°23 | 19°35 | 20°40 | 16°50 | n.a. | S 7 |
| M 8 | 12 54 57 | 15°20'24 | 14♓15 | 20°25 | 23°27 | 14°56 | 17°17 | 25°59 | 16°26 | 25°23 | 4°24 | 19°27 | 20°37 | 16°56 | n.a. | M 8 |
| T 9 | 12 58 53 | 16°18'19 | 29°23 | 22°34 | 24°40 | 15°34 | 17°31 | 26° 7 | 16°28 | 25°24 | 4°25 | 19°18 | 20°34 | 17° 3 | n.a. | T 9 |
| W10 | 13 2 50 | 17°16'12 | 14♈32 | 24°42 | 25°53 | 16°12 | 17°45 | 26°14 | 16°30 | 25°25 | 4°26 | 19° 9 | 20°31 | 17°10 | n.a. | W10 |
| T 11 | 13 6 47 | 18°14'04 | 29°31 | 26°49 | 27° 6 | 16°50 | 17°59 | 26°21 | 16°32 | 25°26 | 4°27 | 19° 1 | 20°27 | 17°17 | n.a. | T 11 |
| F 12 | 13 10 43 | 19°11'54 | 14♉12 | 28°55 | 28°19 | 17°28 | 18°14 | 26°29 | 16°35 | 25°27 | 4°29 | 18°54 | 20°24 | 17°23 | n.a. | F 12 |
| S 13 | 13 14 40 | 20° 9'43 | 28°28 | 0♉59 | 29°32 | 18° 6 | 18°28 | 26°36 | 16°37 | 25°29 | 4°30 | 18°50 | 20°21 | 17°30 | n.a. | S 13 |
| S 14 | 13 18 36 | 21° 7'29 | 12♊16 | 3° 1 | 0♈45 | 18°44 | 18°42 | 26°43 | 16°39 | 25°30 | 4°31 | 18°48 | 20°18 | 17°37 | n.a. | S 14 |
| M15 | 13 22 33 | 22° 5'15 | 25°36 | 5° 1 | 1°58 | 19°21 | 18°56 | 26°50 | 16°42 | 25°31 | 4°32 | 18°D48 | 20°15 | 17°43 | n.a. | M15 |
| T 16 | 13 26 29 | 23° 2'58 | 8♋30 | 6°59 | 3°11 | 19°59 | 19°10 | 26°58 | 16°44 | 25°32 | 4°33 | 18°49 | 20°12 | 17°50 | n.a. | T 16 |
| W17 | 13 30 26 | 24° 0'40 | 21° 3 | 8°54 | 4°25 | 20°36 | 19°25 | 27° 5 | 16°47 | 25°33 | 4°34 | 18°R50 | 20° 8 | 17°57 | n.a. | W17 |
| T 18 | 13 34 22 | 24°58'20 | 3♌18 | 10°46 | 5°38 | 21°14 | 19°39 | 27°12 | 16°49 | 25°35 | 4°35 | 18°50 | 20° 5 | 18° 4 | n.a. | T 18 |
| F 19 | 13 38 19 | 25°55'58 | 15°21 | 12°36 | 6°51 | 21°51 | 19°53 | 27°19 | 16°52 | 25°36 | 4°36 | 18°47 | 20° 2 | 18°10 | n.a. | F 19 |
| S 20 | 13 42 16 | 26°53'35 | 27°16 | 14°22 | 8° 4 | 22°28 | 20° 7 | 27°26 | 16°54 | 25°37 | 4°38 | 18°43 | 19°59 | 18°17 | n.a. | S 20 |
| S 21 | 13 46 12 | 27°51'10 | 9♍ 8 | 16° 6 | 9°17 | 23° 5 | 20°21 | 27°33 | 16°57 | 25°39 | 4°39 | 18°37 | 19°56 | 18°24 | n.a. | S 21 |
| M22 | 13 50 9 | 28°48'43 | 21° 0 | 17°47 | 10°30 | 23°42 | 20°35 | 27°40 | 17° 0 | 25°40 | 4°40 | 18°29 | 19°52 | 18°31 | n.a. | M22 |
| T 23 | 13 54 5 | 29°46'15 | 2♎55 | 19°24 | 11°43 | 24°19 | 20°49 | 27°47 | 17° 2 | 25°41 | 4°41 | 18°20 | 19°49 | 18°37 | n.a. | T 23 |
| W24 | 13 58 2 | 0♉43'46 | 14°56 | 20°59 | 12°56 | 24°56 | 21° 3 | 27°54 | 17° 5 | 25°43 | 4°43 | 18°11 | 19°46 | 18°44 | n.a. | W24 |
| T 25 | 14 1 58 | 1°41'15 | 27° 4 | 22°30 | 14°10 | 25°32 | 21°17 | 28° 1 | 17° 8 | 25°44 | 4°44 | 18° 3 | 19°43 | 18°51 | n.a. | T 25 |
| F 26 | 14 5 55 | 2°38'43 | 9♏19 | 23°58 | 15°23 | 26° 9 | 21°31 | 28° 7 | 17°11 | 25°46 | 4°45 | 17°56 | 19°40 | 18°57 | n.a. | F 26 |
| S 27 | 14 9 51 | 3°36'10 | 21°45 | 25°22 | 16°36 | 26°45 | 21°46 | 28°14 | 17°14 | 25°47 | 4°46 | 17°51 | 19°37 | 19° 4 | n.a. | S 27 |
| S 28 | 14 13 48 | 4°33'36 | 4♐20 | 26°44 | 17°49 | 27°21 | 22° 0 | 28°21 | 17°16 | 25°49 | 4°48 | 17°49 | 19°33 | 19°11 | n.a. | S 28 |
| M29 | 14 17 45 | 5°31'01 | 17° 7 | 28° 1 | 19° 2 | 27°57 | 22°13 | 28°28 | 17°19 | 25°50 | 4°49 | 17°D48 | 19°30 | 19°18 | n.a. | M29 |
| T 30 | 14 21 41 | 6♉28'25 | 0♑ 7 | 29♉16 | 20♈15 | 28♑33 | 22♈27 | 28♓34 | 17♊22 | 25♊52 | 4♊50 | 17♊48 | 19♊27 | 19♍24 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 3n26 | 20s41 | 1n 6 | 1n24 | 0s49 | 7s25 | 1s32 | 24s16 | 0s58 | 5n15 | 1s 3 | 4s 2 | 2s16 | 23n11 | 0n12 | 22n53 | 0s44 | 16n 9 | 5s11 | 23n18 | 23n24 | 10n14 | | n.a. |
| T 2 | 3 49 | 23 21 | 0s 2 | 2 24 | 0 40 | 6 57 | 1 33 | 24 14 | 1 0 | 5 21 | 1 3 | 3 59 | 2 16 | 23 11 | 0 12 | 22 54 | 0 44 | 16 9 | 5 10 | 23 18 | 23 23 | 10 11 | | n.a. |
| W 3 | 4 12 | 24 50 | 1 11 | 3 24 | 0 30 | 6 28 | 1 33 | 24 13 | 1 2 | 5 26 | 1 3 | 3 56 | 2 16 | 23 11 | 0 12 | 22 54 | 0 44 | 16 10 | 5 10 | 23 18 | 23 23 | 10 9 | | n.a. |
| T 4 | 4 35 | 24 56 | 2 17 | 4 24 | 0 19 | 6 0 | 1 33 | 24 11 | 1 4 | 5 32 | 1 3 | 3 53 | 2 16 | 23 11 | 0 12 | 22 54 | 0 44 | 16 10 | 5 10 | 23 18 | 23 23 | 10 6 | | n.a. |
| F 5 | 4 58 | 23 30 | 3 18 | 5 25 | 0 9 | 5 31 | 1 34 | 24 9 | 1 6 | 5 37 | 1 3 | 3 50 | 2 16 | 23 12 | 0 12 | 22 54 | 0 44 | 16 10 | 5 10 | 23 18 | 23 23 | 10 4 | | n.a. |
| S 6 | 5 21 | 20 34 | 4 9 | 6 25 | 0n 2 | 5 2 | 1 34 | 24 7 | 1 8 | 5 43 | 1 3 | 3 47 | 2 16 | 23 12 | 0 12 | 22 54 | 0 43 | 16 11 | 5 10 | 23 18 | 23 22 | 10 1 | | n.a. |
| S 7 | 5 44 | 16 16 | 4 45 | 7 25 | 0 12 | 4 33 | 1 34 | 24 5 | 1 9 | 5 48 | 1 3 | 3 45 | 2 16 | 23 12 | 0 12 | 22 54 | 0 43 | 16 11 | 5 10 | 23 17 | 23 22 | 9 58 | | n.a. |
| M 8 | 6 6 | 10 54 | 5 2 | 8 25 | 0 23 | 4 4 | 1 34 | 24 2 | 1 11 | 5 54 | 1 2 | 3 42 | 2 16 | 23 12 | 0 12 | 22 54 | 0 43 | 16 11 | 5 10 | 23 17 | 23 22 | 9 56 | | n.a. |
| T 9 | 6 29 | 4 48 | 4 59 | 9 24 | 0 34 | 3 35 | 1 34 | 24 0 | 1 13 | 5 59 | 1 2 | 3 39 | 2 16 | 23 12 | 0 12 | 22 54 | 0 43 | 16 11 | 5 9 | 23 16 | 23 22 | 9 53 | | n.a. |
| W10 | 6 51 | 1n35 | 4 34 | 10 21 | 0 44 | 3 5 | 1 34 | 23 57 | 1 15 | 6 5 | 1 2 | 3 36 | 2 17 | 23 13 | 0 12 | 22 54 | 0 43 | 16 12 | 5 9 | 23 15 | 23 22 | 9 50 | | n.a. |
| T 11 | 7 14 | 7 49 | 3 51 | 11 18 | 0 54 | 2 36 | 1 34 | 23 54 | 1 17 | 6 10 | 1 2 | 3 33 | 2 17 | 23 13 | 0 12 | 22 54 | 0 43 | 16 12 | 5 9 | 23 15 | 23 21 | 9 48 | | n.a. |
| F 12 | 7 36 | 13 31 | 2 54 | 12 13 | 1 4 | 2 6 | 1 33 | 23 51 | 1 19 | 6 16 | 1 2 | 3 30 | 2 17 | 23 13 | 0 12 | 22 54 | 0 43 | 16 12 | 5 9 | 23 14 | 23 21 | 9 45 | | n.a. |
| S 13 | 7 58 | 18 18 | 1 46 | 13 6 | 1 14 | 1 36 | 1 33 | 23 48 | 1 21 | 6 21 | 1 2 | 3 27 | 2 17 | 23 13 | 0 12 | 22 54 | 0 43 | 16 13 | 5 9 | 23 14 | 23 21 | 9 43 | | n.a. |
| S 14 | 8 20 | 21 56 | 0 35 | 13 57 | 1 23 | 1 7 | 1 33 | 23 45 | 1 23 | 6 27 | 1 2 | 3 25 | 2 17 | 23 14 | 0 12 | 22 54 | 0 43 | 16 13 | 5 9 | 23 14 | 23 21 | 9 40 | | n.a. |
| M15 | 8 42 | 24 14 | 0n36 | 14 47 | 1 32 | 0 37 | 1 32 | 23 42 | 1 25 | 6 32 | 1 2 | 3 22 | 2 17 | 23 14 | 0 12 | 22 54 | 0 43 | 16 13 | 5 9 | 23 14 | 23 20 | 9 37 | | n.a. |
| T 16 | 9 3 | 25 9 | 1 44 | 15 34 | 1 40 | 0 7 | 1 32 | 23 38 | 1 27 | 6 38 | 1 2 | 3 19 | 2 17 | 23 14 | 0 12 | 22 55 | 0 43 | 16 14 | 5 8 | 23 14 | 23 20 | 9 35 | | n.a. |
| W17 | 9 25 | 24 44 | 2 44 | 16 19 | 1 48 | 0n23 | 1 31 | 23 35 | 1 29 | 6 43 | 1 2 | 3 16 | 2 17 | 23 14 | 0 12 | 22 55 | 0 43 | 16 14 | 5 8 | 23 14 | 23 20 | 9 32 | | n.a. |
| T 18 | 9 46 | 23 7 | 3 35 | 17 2 | 1 55 | 0 53 | 1 31 | 23 31 | 1 31 | 6 49 | 1 2 | 3 13 | 2 17 | 23 15 | 0 12 | 22 55 | 0 43 | 16 14 | 5 8 | 23 14 | 23 20 | 9 29 | | n.a. |
| F 19 | 10 8 | 20 29 | 4 16 | 17 42 | 2 1 | 1 22 | 1 30 | 23 27 | 1 34 | 6 54 | 1 2 | 3 11 | 2 18 | 23 15 | 0 12 | 22 55 | 0 43 | 16 15 | 5 8 | 23 13 | 23 19 | 9 27 | | n.a. |
| S 20 | 10 29 | 17 1 | 4 45 | 18 21 | 2 7 | 1 52 | 1 29 | 23 23 | 1 36 | 7 0 | 1 2 | 3 8 | 2 18 | 23 15 | 0 12 | 22 55 | 0 43 | 16 15 | 5 8 | 23 13 | 23 19 | 9 24 | | n.a. |
| S 21 | 10 50 | 12 53 | 5 2 | 18 56 | 2 12 | 2 22 | 1 28 | 23 19 | 1 38 | 7 5 | 1 2 | 3 5 | 2 18 | 23 15 | 0 12 | 22 55 | 0 43 | 16 15 | 5 8 | 23 13 | 23 19 | 9 22 | | n.a. |
| M22 | 11 10 | 8 17 | 5 6 | 19 29 | 2 16 | 2 52 | 1 27 | 23 14 | 1 40 | 7 10 | 1 2 | 3 3 | 2 18 | 23 16 | 0 12 | 22 55 | 0 43 | 16 16 | 5 8 | 23 12 | 23 19 | 9 19 | | n.a. |
| T 23 | 11 31 | 3 21 | 4 57 | 20 0 | 2 19 | 3 22 | 1 26 | 23 10 | 1 42 | 7 16 | 1 2 | 3 0 | 2 18 | 23 16 | 0 12 | 22 55 | 0 43 | 16 16 | 5 8 | 23 11 | 23 18 | 9 16 | | n.a. |
| W24 | 11 51 | 1s44 | 4 34 | 20 28 | 2 22 | 3 51 | 1 25 | 23 6 | 1 44 | 7 21 | 1 2 | 2 57 | 2 18 | 23 16 | 0 12 | 22 55 | 0 43 | 16 16 | 5 7 | 23 10 | 23 18 | 9 14 | | n.a. |
| T 25 | 12 11 | 6 50 | 3 59 | 20 54 | 2 24 | 4 21 | 1 24 | 23 1 | 1 47 | 7 26 | 1 2 | 2 55 | 2 18 | 23 16 | 0 12 | 22 55 | 0 43 | 16 17 | 5 7 | 23 10 | 23 18 | 9 11 | | n.a. |
| F 26 | 12 31 | 11 43 | 3 12 | 21 18 | 2 25 | 4 51 | 1 23 | 22 56 | 1 49 | 7 32 | 1 2 | 2 52 | 2 18 | 23 17 | 0 12 | 22 55 | 0 43 | 16 17 | 5 7 | 23 9 | 23 18 | 9 8 | | n.a. |
| S 27 | 12 51 | 16 13 | 2 16 | 21 39 | 2 25 | 5 20 | 1 22 | 22 51 | 1 51 | 7 37 | 1 2 | 2 49 | 2 19 | 23 17 | 0 12 | 22 55 | 0 43 | 16 17 | 5 7 | 23 9 | 23 17 | 9 6 | | n.a. |
| S 28 | 13 11 | 20 4 | 1 12 | 21 58 | 2 24 | 5 49 | 1 21 | 22 46 | 1 54 | 7 42 | 1 2 | 2 47 | 2 19 | 23 17 | 0 12 | 22 55 | 0 43 | 16 18 | 5 7 | 23 8 | 23 17 | 9 3 | | n.a. |
| M29 | 13 30 | 23 1 | 0 4 | 22 15 | 2 23 | 6 19 | 1 20 | 22 41 | 1 56 | 7 48 | 1 2 | 2 44 | 2 19 | 23 18 | 0 12 | 22 55 | 0 43 | 16 18 | 5 7 | 23 8 | 23 17 | 9 0 | | n.a. |
| T 30 | 13n50 | 24s49 | 1s 6 | 22n30 | 2n20 | 6n48 | 1s18 | 22s36 | 1s58 | 7n53 | 1s 2 | 2s42 | 2s19 | 23n18 | 0n12 | 22n56 | 0s43 | 16n18 | 5s 7 | 23n 8 | 23n17 | 8n58 | | n.a. |

Julian Day Number = 1697772.5, Delta T = 03h07m09s
Ecliptic obliquity = 23°42'12, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°57'29, Lahiri = - 4°50'28 Julian Calendar 1 Apr. 65 BCE == Greg. Calendar 30 March 065 BCE

The year -64 astronomical counting style corresponds to year 065 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 65 BCE
# geocentric

## MAY 65 BCE (-64) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 14 25 38 | 7♉25'49 | 13♋22 | 0♊27 | 21♈29 | 29♋ 9 | 22♈41 | 28♓41 | 17♊25 | 25♊53 | 4♊52 | 17♊49 | 19♊24 | 19♍31 | n.a. | W 1 |
| T 2 | 14 29 34 | 8°23'11 | 26°53 | 1°34 | 22°42 | 29°45 | 22°55 | 28°47 | 17°28 | 25°55 | 4°53 | 17°51 | 19°21 | 19°38 | n.a. | T 2 |
| F 3 | 14 33 31 | 9°20'33 | 10♒41 | 2°38 | 23°55 | 0♒20 | 23° 9 | 28°54 | 17°31 | 25°57 | 4°54 | 17°R51 | 19°18 | 19°45 | n.a. | F 3 |
| S 4 | 14 37 27 | 10°17'54 | 24°48 | 3°39 | 25° 8 | 0°56 | 23°23 | 29° 0 | 17°34 | 25°58 | 4°56 | 17°50 | 19°14 | 19°51 | n.a. | S 4 |
| S 5 | 14 41 24 | 11°15'15 | 9♓11 | 4°35 | 26°22 | 1°31 | 23°37 | 29° 7 | 17°37 | 26° 0 | 4°57 | 17°48 | 19°11 | 19°58 | n.a. | S 5 |
| M 6 | 14 45 20 | 12°12'35 | 23°48 | 5°28 | 27°35 | 2° 6 | 23°51 | 29°13 | 17°40 | 26° 2 | 4°58 | 17°44 | 19° 8 | 20° 5 | n.a. | M 6 |
| T 7 | 14 49 17 | 13° 9'54 | 8♈33 | 6°17 | 28°48 | 2°40 | 24° 4 | 29°19 | 17°43 | 26° 3 | 5° 0 | 17°39 | 19° 5 | 20°11 | n.a. | T 7 |
| W 8 | 14 53 14 | 14° 7'12 | 23°20 | 7° 1 | 0♉ 1 | 3°15 | 24°18 | 29°26 | 17°47 | 26° 5 | 5° 1 | 17°35 | 19° 2 | 20°18 | n.a. | W 8 |
| T 9 | 14 57 10 | 15° 4'30 | 8♉ 0 | 7°42 | 1°15 | 3°50 | 24°32 | 29°32 | 17°50 | 26° 7 | 5° 2 | 17°30 | 18°58 | 20°25 | n.a. | T 9 |
| F 10 | 15 1 7 | 16° 1'47 | 22°27 | 8°19 | 2°28 | 4°24 | 24°46 | 29°38 | 17°53 | 26° 9 | 5° 4 | 17°27 | 18°55 | 20°32 | n.a. | F 10 |
| S 11 | 15 5 3 | 16°59'03 | 6♊35 | 8°51 | 3°41 | 4°58 | 24°59 | 29°44 | 17°56 | 26°10 | 5° 5 | 17°25 | 18°52 | 20°38 | n.a. | S 11 |
| S 12 | 15 9 0 | 17°56'19 | 20°19 | 9°20 | 4°55 | 5°32 | 25°13 | 29°50 | 17°59 | 26°12 | 5° 7 | 17°D25 | 18°49 | 20°45 | n.a. | S 12 |
| M13 | 15 12 56 | 18°53'34 | 3♋40 | 9°43 | 6° 8 | 6° 5 | 25°26 | 29°56 | 18° 3 | 26°14 | 5° 8 | 17°25 | 18°46 | 20°52 | n.a. | M13 |
| T 14 | 15 16 53 | 19°50'48 | 16°36 | 10° 3 | 7°21 | 6°39 | 25°40 | 0♈ 2 | 18° 6 | 26°16 | 5° 9 | 17°27 | 18°43 | 20°59 | n.a. | T 14 |
| W15 | 15 20 50 | 20°48'01 | 29°12 | 10°17 | 8°35 | 7°12 | 25°53 | 0° 8 | 18° 9 | 26°18 | 5°11 | 17°29 | 18°39 | 21° 5 | n.a. | W15 |
| T 16 | 15 24 46 | 21°45'13 | 11♌30 | 10°27 | 9°48 | 7°45 | 26° 7 | 0°13 | 18°13 | 26°20 | 5°12 | 17°30 | 18°36 | 21°12 | n.a. | T 16 |
| F 17 | 15 28 43 | 22°42'24 | 23°36 | 10°33 | 11° 1 | 8°18 | 26°20 | 0°19 | 18°16 | 26°22 | 5°14 | 17°R30 | 18°33 | 21°19 | n.a. | F 17 |
| S 18 | 15 32 39 | 23°39'34 | 5♍33 | 10°R34 | 12°15 | 8°50 | 26°34 | 0°25 | 18°19 | 26°24 | 5°15 | 17°30 | 18°30 | 21°25 | n.a. | S 18 |
| S 19 | 15 36 36 | 24°36'44 | 17°26 | 10°31 | 13°28 | 9°22 | 26°47 | 0°30 | 18°23 | 26°26 | 5°17 | 17°28 | 18°27 | 21°32 | n.a. | S 19 |
| M20 | 15 40 32 | 25°33'53 | 29°19 | 10°23 | 14°41 | 9°54 | 27° 0 | 0°36 | 18°26 | 26°27 | 5°18 | 17°25 | 18°24 | 21°39 | n.a. | M20 |
| T 21 | 15 44 29 | 26°31'01 | 11♎18 | 10°11 | 15°55 | 10°26 | 27°13 | 0°41 | 18°30 | 26°29 | 5°20 | 17°22 | 18°20 | 21°46 | n.a. | T 21 |
| W22 | 15 48 25 | 27°28'09 | 23°23 | 9°54 | 17° 8 | 10°58 | 27°26 | 0°47 | 18°33 | 26°31 | 5°21 | 17°19 | 18°17 | 21°52 | n.a. | W22 |
| T 23 | 15 52 22 | 28°25'16 | 5♏39 | 9°34 | 18°21 | 11°29 | 27°40 | 0°52 | 18°36 | 26°33 | 5°22 | 17°16 | 18°14 | 21°59 | n.a. | T 23 |
| F 24 | 15 56 19 | 29°22'23 | 18° 7 | 9°11 | 19°35 | 12° 0 | 27°53 | 0°57 | 18°40 | 26°35 | 5°24 | 17°14 | 18°11 | 22° 6 | n.a. | F 24 |
| S 25 | 16 0 15 | 0♊19'29 | 0♐48 | 8°44 | 20°48 | 12°31 | 28° 6 | 1° 2 | 18°43 | 26°37 | 5°25 | 17°13 | 18° 8 | 22°12 | n.a. | S 25 |
| S 26 | 16 4 12 | 1°16'36 | 13°43 | 8°14 | 22° 2 | 13° 1 | 28°19 | 1° 7 | 18°47 | 26°40 | 5°27 | 17°D12 | 18° 4 | 22°19 | n.a. | S 26 |
| M27 | 16 8 8 | 2°13'42 | 26°51 | 7°42 | 23°15 | 13°31 | 28°31 | 1°12 | 18°50 | 26°42 | 5°28 | 17°12 | 18° 1 | 22°26 | n.a. | M27 |
| T 28 | 16 12 5 | 3°10'48 | 10♋13 | 7° 9 | 24°29 | 14° 1 | 28°44 | 1°17 | 18°54 | 26°44 | 5°30 | 17°13 | 17°58 | 22°33 | n.a. | T 28 |
| W29 | 16 16 1 | 4° 7'54 | 23°47 | 6°34 | 25°42 | 14°30 | 28°57 | 1°22 | 18°57 | 26°46 | 5°31 | 17°14 | 17°55 | 22°39 | n.a. | W29 |
| T 30 | 16 19 58 | 5° 5'00 | 7♒33 | 5°58 | 26°56 | 15° 0 | 29°10 | 1°27 | 19° 1 | 26°48 | 5°33 | 17°15 | 17°52 | 22°46 | n.a. | T 30 |
| F 31 | 16 23 54 | 6♊ 2'06 | 21♒31 | 5♊22 | 28♉ 9 | 15♒29 | 29♈22 | 1♈32 | 19♊ 5 | 26♊50 | 5♊34 | 17♊16 | 17♊49 | 22♍53 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| W 1 | 14n 9 | 25s15 | 2s14 | 22n42 | 2n17 | 7n17 | 1s17 | 22s31 | 2s 1 | 7n58 | 1s 2 | 2s39 | 2s19 | 23n18 | 0n12 | 22n56 | 0s43 | 16n19 | 5s 7 | 23n 8 | 23n16 | 8n55 | | | n.a. |
| T 2 | 14 27 | 24 13 | 3 16 | 22 53 | 2 13 | 7 46 | 1 15 | 22 26 | 2 3 | 8 3 | 1 2 | 2 37 | 2 19 | 23 18 | 0 12 | 22 56 | 0 43 | 16 19 | 5 7 | 23 8 | 23 16 | 8 52 | | | n.a. |
| F 3 | 14 46 | 21 43 | 4 8 | 23 1 | 2 8 | 8 14 | 1 14 | 22 20 | 2 5 | 8 9 | 1 2 | 2 34 | 2 20 | 23 19 | 0 12 | 22 56 | 0 43 | 16 19 | 5 6 | 23 8 | 23 16 | 8 49 | | | n.a. |
| S 4 | 15 4 | 17 53 | 4 46 | 23 7 | 2 3 | 8 43 | 1 12 | 22 15 | 2 8 | 8 14 | 1 2 | 2 32 | 2 20 | 23 19 | 0 12 | 22 56 | 0 43 | 16 20 | 5 6 | 23 8 | 23 16 | 8 47 | | | n.a. |
| S 5 | 15 22 | 12 57 | 5 7 | 23 12 | 1 56 | 9 11 | 1 11 | 22 10 | 2 10 | 8 19 | 1 2 | 2 29 | 2 20 | 23 19 | 0 12 | 22 56 | 0 43 | 16 20 | 5 6 | 23 8 | 23 15 | 8 44 | | | n.a. |
| M 6 | 15 40 | 7 12 | 5 9 | 23 14 | 1 49 | 9 39 | 1 9 | 22 4 | 2 13 | 8 24 | 1 2 | 2 27 | 2 20 | 23 20 | 0 12 | 22 56 | 0 43 | 16 21 | 5 6 | 23 8 | 23 15 | 8 41 | | | n.a. |
| T 7 | 15 58 | 1 1 | 4 51 | 23 15 | 1 41 | 10 7 | 1 7 | 21 58 | 2 15 | 8 29 | 1 2 | 2 25 | 2 20 | 23 20 | 0 12 | 22 56 | 0 43 | 16 21 | 5 6 | 23 7 | 23 15 | 8 39 | | | n.a. |
| W 8 | 16 15 | 5n15 | 4 13 | 23 14 | 1 32 | 10 35 | 1 6 | 21 53 | 2 18 | 8 34 | 1 1 | 2 22 | 2 20 | 23 20 | 0 12 | 22 56 | 0 42 | 16 21 | 5 6 | 23 7 | 23 15 | 8 36 | | | n.a. |
| T 9 | 16 32 | 11 12 | 3 18 | 23 11 | 1 22 | 11 2 | 1 4 | 21 47 | 2 20 | 8 39 | 1 1 | 2 20 | 2 21 | 23 20 | 0 12 | 22 56 | 0 42 | 16 22 | 5 6 | 23 7 | 23 14 | 8 33 | | | n.a. |
| F 10 | 16 49 | 16 27 | 2 12 | 23 7 | 1 12 | 11 30 | 1 2 | 21 41 | 2 23 | 8 44 | 1 1 | 2 18 | 2 21 | 23 21 | 0 12 | 22 56 | 0 42 | 16 22 | 5 6 | 23 6 | 23 14 | 8 31 | | | n.a. |
| S 11 | 17 6 | 20 41 | 0 59 | 23 1 | 1 0 | 11 56 | 1 0 | 21 35 | 2 25 | 8 49 | 1 1 | 2 15 | 2 21 | 23 21 | 0 12 | 22 56 | 0 42 | 16 22 | 5 6 | 23 6 | 23 14 | 8 28 | | | n.a. |
| S 12 | 17 22 | 23 37 | 0n16 | 22 53 | 0 48 | 12 23 | 0 58 | 21 29 | 2 28 | 8 54 | 1 1 | 2 13 | 2 21 | 23 21 | 0 12 | 22 57 | 0 42 | 16 23 | 5 6 | 23 6 | 23 14 | 8 25 | | | n.a. |
| M13 | 17 38 | 25 7 | 1 28 | 22 44 | 0 35 | 12 50 | 0 56 | 21 23 | 2 31 | 8 59 | 1 1 | 2 11 | 2 21 | 23 22 | 0 12 | 22 57 | 0 42 | 16 23 | 5 6 | 23 6 | 23 13 | 8 22 | | | n.a. |
| T 14 | 17 54 | 25 11 | 2 33 | 22 34 | 0 22 | 13 16 | 0 54 | 21 17 | 2 33 | 9 4 | 1 2 | 2 9 | 2 21 | 23 22 | 0 12 | 22 57 | 0 42 | 16 23 | 5 5 | 23 6 | 23 13 | 8 20 | | | n.a. |
| W15 | 18 9 | 23 57 | 3 29 | 22 22 | 0 8 | 13 41 | 0 52 | 21 11 | 2 36 | 9 9 | 1 2 | 2 7 | 2 22 | 23 22 | 0 12 | 22 57 | 0 42 | 16 24 | 5 5 | 23 6 | 23 13 | 8 17 | | | n.a. |
| T 16 | 18 24 | 21 35 | 4 14 | 22 9 | 0s 7 | 14 7 | 0 50 | 21 5 | 2 39 | 9 14 | 1 2 | 2 5 | 2 22 | 23 23 | 0 12 | 22 57 | 0 42 | 16 24 | 5 5 | 23 6 | 23 12 | 8 14 | | | n.a. |
| F 17 | 18 39 | 18 19 | 4 47 | 21 55 | 0 22 | 14 32 | 0 48 | 20 59 | 2 41 | 9 19 | 1 2 | 2 2 | 2 22 | 23 23 | 0 12 | 22 57 | 0 42 | 16 24 | 5 5 | 23 7 | 23 12 | 8 12 | | | n.a. |
| S 18 | 18 54 | 14 20 | 5 7 | 21 39 | 0 38 | 14 57 | 0 46 | 20 53 | 2 44 | 9 24 | 1 2 | 2 0 | 2 22 | 23 23 | 0 12 | 22 57 | 0 42 | 16 24 | 5 5 | 23 6 | 23 12 | 8 9 | | | n.a. |
| S 19 | 19 8 | 9 50 | 5 14 | 21 23 | 0 54 | 15 21 | 0 44 | 20 47 | 2 47 | 9 29 | 1 2 | 1 58 | 2 22 | 23 23 | 0 12 | 22 57 | 0 42 | 16 25 | 5 5 | 23 6 | 23 12 | 8 6 | | | n.a. |
| M20 | 19 22 | 4 58 | 5 7 | 21 5 | 1 10 | 15 45 | 0 42 | 20 41 | 2 50 | 9 34 | 1 2 | 1 56 | 2 23 | 23 24 | 0 12 | 22 57 | 0 42 | 16 25 | 5 5 | 23 6 | 23 11 | 8 3 | | | n.a. |
| T 21 | 19 35 | 0s 7 | 4 47 | 20 47 | 1 27 | 16 9 | 0 40 | 20 35 | 2 53 | 9 38 | 1 2 | 1 54 | 2 23 | 23 24 | 0 12 | 22 57 | 0 42 | 16 25 | 5 5 | 23 6 | 23 11 | 8 1 | | | n.a. |
| W22 | 19 49 | 5 15 | 4 14 | 20 29 | 1 43 | 16 32 | 0 37 | 20 29 | 2 55 | 9 43 | 1 2 | 1 52 | 2 23 | 23 24 | 0 12 | 22 57 | 0 42 | 16 26 | 5 5 | 23 5 | 23 11 | 7 58 | | | n.a. |
| T 23 | 20 2 | 10 16 | 3 29 | 20 9 | 2 0 | 16 55 | 0 35 | 20 23 | 2 58 | 9 48 | 1 2 | 1 50 | 2 23 | 23 25 | 0 12 | 22 57 | 0 42 | 16 26 | 5 5 | 23 5 | 23 11 | 7 55 | | | n.a. |
| F 24 | 20 14 | 14 58 | 2 34 | 19 50 | 2 16 | 17 18 | 0 33 | 20 17 | 3 1 | 9 53 | 1 2 | 1 48 | 2 24 | 23 25 | 0 12 | 22 57 | 0 42 | 16 26 | 5 5 | 23 5 | 23 10 | 7 52 | | | n.a. |
| S 25 | 20 27 | 19 5 | 1 29 | 19 30 | 2 32 | 17 40 | 0 31 | 20 11 | 3 4 | 9 57 | 1 2 | 1 47 | 2 24 | 23 25 | 0 12 | 22 58 | 0 42 | 16 27 | 5 5 | 23 5 | 23 10 | 7 50 | | | n.a. |
| S 26 | 20 39 | 22 23 | 0 19 | 19 10 | 2 48 | 18 1 | 0 28 | 20 5 | 3 7 | 10 2 | 1 2 | 1 45 | 2 24 | 23 26 | 0 12 | 22 58 | 0 42 | 16 27 | 5 5 | 23 5 | 23 10 | 7 47 | | | n.a. |
| M27 | 20 50 | 24 33 | 0s53 | 18 50 | 3 3 | 18 22 | 0 26 | 19 59 | 3 10 | 10 6 | 1 2 | 1 43 | 2 24 | 23 26 | 0 12 | 22 58 | 0 42 | 16 27 | 5 5 | 23 5 | 23 9 | 7 44 | | | n.a. |
| T 28 | 21 1 | 25 22 | 2 4 | 18 31 | 3 17 | 18 43 | 0 24 | 19 53 | 3 13 | 10 11 | 1 2 | 1 41 | 2 24 | 23 26 | 0 12 | 22 58 | 0 42 | 16 28 | 5 4 | 23 5 | 23 9 | 7 41 | | | n.a. |
| W29 | 21 12 | 24 41 | 3 9 | 18 12 | 3 30 | 19 3 | 0 21 | 19 47 | 3 16 | 10 16 | 1 2 | 1 39 | 2 25 | 23 26 | 0 12 | 22 58 | 0 42 | 16 28 | 5 4 | 23 5 | 23 9 | 7 39 | | | n.a. |
| T 30 | 21 23 | 22 30 | 4 4 | 17 54 | 3 42 | 19 23 | 0 19 | 19 41 | 3 19 | 10 20 | 1 2 | 1 38 | 2 25 | 23 27 | 0 12 | 22 58 | 0 42 | 16 28 | 5 4 | 23 5 | 23 9 | 7 36 | | | n.a. |
| F 31 | 21n33 | 18s58 | 4s45 | 17n37 | 3s52 | 19n42 | 0s17 | 19s35 | 3s22 | 10n25 | 1s 2 | 1s36 | 2s25 | 23n27 | 0n12 | 22n58 | 0s42 | 16n29 | 5s 4 | 23n 5 | 23n 8 | 7n33 | | | n.a. |

Julian Day Number = 1697802.5, Delta T = 03h07m08s
Ecliptic obliquity = 23°42'12, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°57'24, Lahiri = - 4°50'24 Julian Calendar 1 May 65 BCE == Greg. Calendar 29 Apr. 065 BCE

The year -64 astronomical counting style corresponds to year 065 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 65 BCE
# geocentric

## JUNE 65 BCE (-64) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 27 51 | 6♊59'13 | 5♓38 | 4°R47 | 29♉23 | 15♒57 | 29♈35 | 1♈36 | 19♊ 8 | 26♊52 | 5♊36 | 17°R16 | 17♊45 | 23♍ 0 | n.a. | S 1 |
| S 2 | 16 31 48 | 7°56'19 | 19°53 | 4♊13 | 0♊36 | 16°25 | 29°48 | 1°41 | 19°12 | 26°54 | 5°37 | 17♊16 | 17°42 | 23° 6 | n.a. | S 2 |
| M 3 | 16 35 44 | 8°53'26 | 4♈13 | 3°41 | 1°50 | 16°53 | 0♉ 0 | 1°45 | 19°15 | 26°56 | 5°39 | 17°15 | 17°39 | 23°13 | n.a. | M 3 |
| T 4 | 16 39 41 | 9°50'34 | 18°35 | 3°11 | 3° 3 | 17°20 | 0°13 | 1°50 | 19°19 | 26°58 | 5°40 | 17°14 | 17°36 | 23°20 | n.a. | T 4 |
| W 5 | 16 43 37 | 10°47'41 | 2♉55 | 2°44 | 4°17 | 17°48 | 0°25 | 1°54 | 19°22 | 27° 1 | 5°41 | 17°14 | 17°33 | 23°26 | n.a. | W 5 |
| T 6 | 16 47 34 | 11°44'49 | 17° 8 | 2°20 | 5°31 | 18°14 | 0°37 | 1°58 | 19°26 | 27° 3 | 5°43 | 17°13 | 17°29 | 23°33 | n.a. | T 6 |
| F 7 | 16 51 30 | 12°41'58 | 1♊11 | 2° 0 | 6°44 | 18°40 | 0°49 | 2° 3 | 19°30 | 27° 5 | 5°44 | 17°13 | 17°26 | 23°40 | n.a. | F 7 |
| S 8 | 16 55 27 | 13°39'06 | 14°59 | 1°44 | 7°58 | 19° 6 | 1° 2 | 2° 7 | 19°33 | 27° 7 | 5°46 | 17°D12 | 17°23 | 23°47 | n.a. | S 8 |
| S 9 | 16 59 23 | 14°36'15 | 28°30 | 1°33 | 9°12 | 19°32 | 1°14 | 2°11 | 19°37 | 27° 9 | 5°47 | 17°13 | 17°20 | 23°53 | n.a. | S 9 |
| M10 | 17 3 20 | 15°33'24 | 11♋41 | 1°26 | 10°25 | 19°57 | 1°26 | 2°15 | 19°41 | 27°11 | 5°49 | 17°13 | 17°17 | 24° 0 | n.a. | M10 |
| T 11 | 17 7 17 | 16°30'33 | 24°34 | 1°D24 | 11°39 | 20°21 | 1°38 | 2°18 | 19°44 | 27°14 | 5°50 | 17°13 | 17°14 | 24° 7 | n.a. | T 11 |
| W12 | 17 11 13 | 17°27'43 | 7♌ 9 | 1°27 | 12°53 | 20°45 | 1°49 | 2°22 | 19°48 | 27°16 | 5°52 | 17°R13 | 17°10 | 24°14 | n.a. | W12 |
| T 13 | 17 15 10 | 18°24'52 | 19°27 | 1°36 | 14° 6 | 21° 9 | 2° 1 | 2°26 | 19°51 | 27°18 | 5°53 | 17°13 | 17° 7 | 24°20 | n.a. | T 13 |
| F 14 | 17 19 6 | 19°22'02 | 1♍34 | 1°50 | 15°20 | 21°32 | 2°13 | 2°29 | 19°55 | 27°20 | 5°55 | 17°13 | 17° 4 | 24°27 | n.a. | F 14 |
| S 15 | 17 23 3 | 20°19'11 | 13°32 | 2° 9 | 16°34 | 21°55 | 2°24 | 2°33 | 19°59 | 27°23 | 5°56 | 17°12 | 17° 1 | 24°34 | n.a. | S 15 |
| S 16 | 17 26 59 | 21°16'21 | 25°26 | 2°34 | 17°48 | 22°17 | 2°36 | 2°36 | 20° 2 | 27°25 | 5°57 | 17°D12 | 16°58 | 24°40 | n.a. | S 16 |
| M17 | 17 30 56 | 22°13'31 | 7♎20 | 3° 4 | 19° 1 | 22°38 | 2°47 | 2°39 | 20° 6 | 27°27 | 5°59 | 17°13 | 16°55 | 24°47 | n.a. | M17 |
| T 18 | 17 34 53 | 23°10'41 | 19°19 | 3°39 | 20°15 | 23° 0 | 2°59 | 2°43 | 20°10 | 27°29 | 6° 0 | 17°13 | 16°51 | 24°54 | n.a. | T 18 |
| W19 | 17 38 49 | 24° 7'51 | 1♏28 | 4°20 | 21°29 | 23°20 | 3°10 | 2°46 | 20°13 | 27°31 | 6° 2 | 17°14 | 16°48 | 25° 1 | n.a. | W19 |
| T 20 | 17 42 46 | 25° 5'02 | 13°49 | 5° 6 | 22°43 | 23°40 | 3°21 | 2°49 | 20°17 | 27°34 | 6° 3 | 17°14 | 16°45 | 25° 7 | n.a. | T 20 |
| F 21 | 17 46 42 | 26° 2'14 | 26°26 | 5°57 | 23°57 | 24° 0 | 3°32 | 2°52 | 20°21 | 27°36 | 6° 4 | 17°15 | 16°42 | 25°14 | n.a. | F 21 |
| S 22 | 17 50 39 | 26°59'26 | 9♐21 | 6°54 | 25°10 | 24°19 | 3°43 | 2°54 | 20°24 | 27°38 | 6° 6 | 17°16 | 16°39 | 25°21 | n.a. | S 22 |
| S 23 | 17 54 35 | 27°56'38 | 22°35 | 7°56 | 26°24 | 24°37 | 3°54 | 2°57 | 20°28 | 27°40 | 6° 7 | 17°R16 | 16°35 | 25°27 | n.a. | S 23 |
| M24 | 17 58 32 | 28°53'51 | 6♑ 6 | 9° 3 | 27°38 | 24°55 | 4° 5 | 3° 0 | 20°31 | 27°43 | 6° 9 | 17°15 | 16°32 | 25°34 | n.a. | M24 |
| T 25 | 18 2 28 | 29°51'05 | 19°54 | 10°14 | 28°52 | 25°12 | 4°16 | 3° 2 | 20°35 | 27°45 | 6°10 | 17°14 | 16°29 | 25°41 | n.a. | T 25 |
| W26 | 18 6 25 | 0♋48'20 | 3♒55 | 11°31 | 0♋ 6 | 25°29 | 4°26 | 3° 5 | 20°39 | 27°47 | 6°11 | 17°13 | 16°26 | 25°48 | n.a. | W26 |
| T 27 | 18 10 22 | 1°45'36 | 18° 6 | 12°52 | 1°20 | 25°45 | 4°37 | 3° 7 | 20°42 | 27°49 | 6°13 | 17°11 | 16°23 | 25°54 | n.a. | T 27 |
| F 28 | 18 14 18 | 2°42'53 | 2♓23 | 14°18 | 2°34 | 26° 0 | 4°47 | 3° 9 | 20°46 | 27°51 | 6°14 | 17° 9 | 16°20 | 26° 1 | n.a. | F 28 |
| S 29 | 18 18 15 | 3°40'11 | 16°41 | 15°49 | 3°48 | 26°15 | 4°57 | 3°11 | 20°49 | 27°54 | 6°15 | 17° 8 | 16°16 | 26° 8 | n.a. | S 29 |
| S 30 | 18 22 11 | 4♋37'30 | 0♈57 | 17♊24 | 5♋ 2 | 26♒29 | 5♉ 8 | 3♈13 | 20♊53 | 27♊56 | 6♊17 | 17°D 7 | 16♊13 | 26♍15 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21n43 | 14s20 | 5s10 | 17n22 | 4s 2 | 20n 0 | 0s14 | 19s29 | 3s25 | 10n29 | 1s 2 | 1s34 | 2s25 | 23n27 | 0n12 | 22n58 | 0s42 | 16n29 | 5s 4 | 23n 5 | 23n 8 | 7n30 | | n.a. |
| S 2 | 21 52 | 8 53 | 5 16 | 17 8 | 4 10 | 20 19 | 0 12 | 19 23 | 3 28 | 10 33 | 1 2 | 1 33 | 2 26 | 23 28 | 0 12 | 22 58 | 0 42 | 16 29 | 5 4 | 23 5 | 23 8 | 7 28 | | n.a. |
| M 3 | 22 2 | 2 56 | 5 3 | 16 55 | 4 17 | 20 36 | 0 10 | 19 18 | 3 31 | 10 38 | 1 2 | 1 31 | 2 26 | 23 28 | 0 12 | 22 58 | 0 42 | 16 29 | 5 4 | 23 5 | 23 7 | 7 25 | | n.a. |
| T 4 | 22 10 | 3n12 | 4 30 | 16 45 | 4 22 | 20 53 | 0 7 | 19 12 | 3 34 | 10 42 | 1 2 | 1 30 | 2 26 | 23 28 | 0 12 | 22 58 | 0 42 | 16 30 | 5 4 | 23 5 | 23 7 | 7 22 | | n.a. |
| W 5 | 22 19 | 9 9 | 3 41 | 16 36 | 4 25 | 21 9 | 0 5 | 19 7 | 3 37 | 10 47 | 1 2 | 1 28 | 2 26 | 23 29 | 0 12 | 22 58 | 0 42 | 16 30 | 5 4 | 23 5 | 23 7 | 7 19 | | n.a. |
| T 6 | 22 27 | 14 36 | 2 39 | 16 29 | 4 28 | 21 25 | 0 2 | 19 1 | 3 40 | 10 51 | 1 2 | 1 27 | 2 27 | 23 29 | 0 12 | 22 58 | 0 42 | 16 30 | 5 4 | 23 5 | 23 6 | 7 16 | | n.a. |
| F 7 | 22 34 | 19 12 | 1 28 | 16 25 | 4 28 | 21 40 | 0n 0 | 18 56 | 3 44 | 10 55 | 1 2 | 1 25 | 2 27 | 23 29 | 0 12 | 22 58 | 0 42 | 16 31 | 5 4 | 23 5 | 23 6 | 7 14 | | n.a. |
| S 8 | 22 41 | 22 39 | 0 12 | 16 22 | 4 27 | 21 55 | 0 2 | 18 51 | 3 47 | 10 59 | 1 2 | 1 24 | 2 27 | 23 29 | 0 12 | 22 58 | 0 42 | 16 31 | 5 4 | 23 5 | 23 6 | 7 11 | | n.a. |
| S 9 | 22 48 | 24 44 | 1n 2 | 16 22 | 4 25 | 22 9 | 0 5 | 18 45 | 3 50 | 11 3 | 1 2 | 1 22 | 2 27 | 23 30 | 0 12 | 22 59 | 0 42 | 16 31 | 5 4 | 23 5 | 23 6 | 7 8 | | n.a. |
| M10 | 22 55 | 25 22 | 2 12 | 16 24 | 4 22 | 22 23 | 0 7 | 18 40 | 3 53 | 11 8 | 1 2 | 1 21 | 2 28 | 23 30 | 0 12 | 22 59 | 0 42 | 16 32 | 5 4 | 23 5 | 23 5 | 7 5 | | n.a. |
| T 11 | 23 1 | 24 36 | 3 13 | 16 28 | 4 17 | 22 35 | 0 10 | 18 36 | 3 56 | 11 12 | 1 2 | 1 20 | 2 28 | 23 30 | 0 12 | 22 59 | 0 42 | 16 32 | 5 4 | 23 5 | 23 5 | 7 3 | | n.a. |
| W12 | 23 6 | 22 36 | 4 3 | 16 35 | 4 11 | 22 47 | 0 12 | 18 31 | 4 0 | 11 16 | 1 2 | 1 19 | 2 28 | 23 31 | 0 12 | 22 59 | 0 42 | 16 32 | 5 4 | 23 5 | 23 5 | 7 0 | | n.a. |
| T 13 | 23 12 | 19 35 | 4 40 | 16 43 | 4 4 | 22 59 | 0 14 | 18 26 | 4 3 | 11 20 | 1 2 | 1 17 | 2 28 | 23 31 | 0 12 | 22 59 | 0 42 | 16 32 | 5 4 | 23 5 | 23 4 | 6 57 | | n.a. |
| F 14 | 23 16 | 15 46 | 5 5 | 16 54 | 3 56 | 23 10 | 0 17 | 18 22 | 4 6 | 11 24 | 1 3 | 1 16 | 2 29 | 23 31 | 0 12 | 22 59 | 0 42 | 16 33 | 5 4 | 23 5 | 23 4 | 6 54 | | n.a. |
| S 15 | 23 21 | 11 24 | 5 16 | 17 6 | 3 47 | 23 20 | 0 19 | 18 17 | 4 10 | 11 28 | 1 3 | 1 15 | 2 29 | 23 32 | 0 12 | 22 59 | 0 42 | 16 33 | 5 4 | 23 5 | 23 4 | 6 51 | | n.a. |
| S 16 | 23 25 | 6 37 | 5 13 | 17 21 | 3 38 | 23 29 | 0 21 | 18 13 | 4 13 | 11 32 | 1 3 | 1 14 | 2 29 | 23 32 | 0 12 | 22 59 | 0 42 | 16 33 | 5 4 | 23 5 | 23 3 | 6 49 | | n.a. |
| M17 | 23 28 | 1 36 | 4 57 | 17 37 | 3 27 | 23 38 | 0 24 | 18 9 | 4 16 | 11 36 | 1 3 | 1 13 | 2 29 | 23 32 | 0 12 | 22 59 | 0 42 | 16 33 | 5 4 | 23 5 | 23 3 | 6 46 | | n.a. |
| T 18 | 23 32 | 3s30 | 4 28 | 17 54 | 3 16 | 23 46 | 0 26 | 18 5 | 4 20 | 11 39 | 1 3 | 1 12 | 2 30 | 23 32 | 0 12 | 22 59 | 0 42 | 16 34 | 5 4 | 23 5 | 23 3 | 6 43 | | n.a. |
| W19 | 23 34 | 8 34 | 3 47 | 18 14 | 3 4 | 23 54 | 0 28 | 18 1 | 4 23 | 11 43 | 1 3 | 1 11 | 2 30 | 23 33 | 0 12 | 22 59 | 0 42 | 16 34 | 5 4 | 23 5 | 23 2 | 6 40 | | n.a. |
| T 20 | 23 37 | 13 23 | 2 55 | 18 34 | 2 52 | 24 0 | 0 30 | 17 57 | 4 26 | 11 47 | 1 3 | 1 10 | 2 30 | 23 33 | 0 12 | 22 59 | 0 42 | 16 34 | 5 4 | 23 5 | 23 2 | 6 37 | | n.a. |
| F 21 | 23 39 | 17 45 | 1 53 | 18 56 | 2 39 | 24 6 | 0 32 | 17 54 | 4 30 | 11 51 | 1 3 | 1 9 | 2 31 | 23 33 | 0 12 | 22 59 | 0 42 | 16 34 | 5 4 | 23 5 | 23 2 | 6 34 | | n.a. |
| S 22 | 23 40 | 21 23 | 0 44 | 19 18 | 2 26 | 24 11 | 0 35 | 17 51 | 4 33 | 11 54 | 1 3 | 1 8 | 2 31 | 23 33 | 0 12 | 22 59 | 0 42 | 16 35 | 5 4 | 23 5 | 23 1 | 6 32 | | n.a. |
| S 23 | 23 41 | 23 59 | 0s29 | 19 42 | 2 12 | 24 16 | 0 37 | 17 48 | 4 36 | 11 58 | 1 3 | 1 7 | 2 31 | 23 34 | 0 12 | 22 59 | 0 42 | 16 35 | 5 4 | 23 5 | 23 1 | 6 29 | | n.a. |
| M24 | 23 42 | 25 16 | 1 42 | 20 6 | 1 59 | 24 20 | 0 39 | 17 45 | 4 40 | 12 2 | 1 3 | 1 6 | 2 31 | 23 34 | 0 12 | 22 59 | 0 42 | 16 35 | 5 4 | 23 5 | 23 1 | 6 26 | | n.a. |
| T 25 | 23 42 | 25 1 | 2 51 | 20 30 | 1 45 | 24 23 | 0 41 | 17 42 | 4 43 | 12 5 | 1 3 | 1 6 | 2 32 | 23 34 | 0 12 | 22 59 | 0 42 | 16 35 | 5 4 | 23 5 | 23 1 | 6 23 | | n.a. |
| W26 | 23 42 | 23 12 | 3 50 | 20 54 | 1 31 | 24 25 | 0 43 | 17 39 | 4 47 | 12 9 | 1 3 | 1 5 | 2 32 | 23 35 | 0 12 | 22 59 | 0 42 | 16 36 | 5 4 | 23 5 | 23 0 | 6 20 | | n.a. |
| T 27 | 23 41 | 19 56 | 4 36 | 21 19 | 1 17 | 24 27 | 0 45 | 17 37 | 4 50 | 12 12 | 1 3 | 1 4 | 2 32 | 23 35 | 0 12 | 23 0 | 0 42 | 16 36 | 5 4 | 23 5 | 23 0 | 6 17 | | n.a. |
| F 28 | 23 40 | 15 28 | 5 5 | 21 43 | 1 3 | 24 28 | 0 47 | 17 35 | 4 53 | 12 16 | 1 4 | 1 4 | 2 33 | 23 35 | 0 12 | 23 0 | 0 42 | 16 36 | 5 4 | 23 5 | 23 0 | 6 15 | | n.a. |
| S 29 | 23 39 | 10 9 | 5 15 | 22 7 | 0 50 | 24 28 | 0 49 | 17 33 | 4 57 | 12 19 | 1 4 | 1 3 | 2 33 | 23 35 | 0 12 | 23 0 | 0 42 | 16 36 | 5 4 | 23 4 | 22 59 | 6 12 | | n.a. |
| S 30 | 23n37 | 4s17 | 5s 6 | 22n30 | 0s36 | 24n27 | 0n51 | 17s31 | 5s 0 | 12n23 | 1s 4 | 1s 3 | 2s33 | 23n36 | 0n12 | 23n 0 | 0s42 | 16n37 | 5s 4 | 23n 4 | 22n59 | 6n 9 | | n.a. |

Julian Day Number = 1697833.5, Delta T = 03h07m07s
Ecliptic obliquity = 23°42'12, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°57'20, Lahiri = - 4°50'20 Julian Calendar 1 June 65 BCE == Greg. Calendar 30 May 065 BCE

The year -64 astronomical counting style corresponds to year 065 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 65 BCE
# geocentric

## JULY 65 BCE (-64) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 18 26 8 | 5♋34'50 | 15♈ 9 | 19♊ 2 | 6♋16 | 26♒42 | 5♉18 | 3♈15 | 20♊56 | 27♊58 | 6♊18 | 17♊ 7 | 16♊10 | 26♍21 | n.a. | M 1 |
| T 2 | 18 30 4 | 6°32'12 | 29°14 | 20°45 | 7°30 | 26°54 | 5°28 | 3°17 | 21° 0 | 28° 0 | 6°19 | 17° 8 | 16° 7 | 26°28 | n.a. | T 2 |
| W 3 | 18 34 1 | 7°29'34 | 13♉11 | 22°31 | 8°44 | 27° 6 | 5°38 | 3°19 | 21° 4 | 28° 3 | 6°21 | 17°10 | 16° 4 | 26°35 | n.a. | W 3 |
| T 4 | 18 37 57 | 8°26'58 | 26°58 | 24°21 | 9°58 | 27°17 | 5°47 | 3°20 | 21° 7 | 28° 5 | 6°22 | 17°11 | 16° 1 | 26°41 | n.a. | T 4 |
| F 5 | 18 41 54 | 9°24'24 | 10♊34 | 26°13 | 11°12 | 27°28 | 5°57 | 3°22 | 21°11 | 28° 7 | 6°23 | 17°R12 | 15°57 | 26°48 | n.a. | F 5 |
| S 6 | 18 45 51 | 10°21'51 | 23°58 | 28° 8 | 12°26 | 27°37 | 6° 7 | 3°23 | 21°14 | 28° 9 | 6°24 | 17°12 | 15°54 | 26°55 | n.a. | S 6 |
| S 7 | 18 49 47 | 11°19'19 | 7♋ 8 | 0♋ 5 | 13°40 | 27°46 | 6°16 | 3°25 | 21°18 | 28°11 | 6°26 | 17°11 | 15°51 | 27° 2 | n.a. | S 7 |
| M 8 | 18 53 44 | 12°16'48 | 20° 4 | 2° 4 | 14°54 | 27°54 | 6°25 | 3°26 | 21°21 | 28°14 | 6°27 | 17° 8 | 15°48 | 27° 8 | n.a. | M 8 |
| T 9 | 18 57 40 | 13°14'18 | 2♌45 | 4° 5 | 16° 8 | 28° 1 | 6°35 | 3°27 | 21°24 | 28°16 | 6°28 | 17° 5 | 15°45 | 27°15 | n.a. | T 9 |
| W10 | 19 1 37 | 14°11'49 | 15°13 | 6° 7 | 17°23 | 28° 8 | 6°44 | 3°28 | 21°28 | 28°18 | 6°29 | 17° 0 | 15°41 | 27°22 | n.a. | W10 |
| T 11 | 19 5 33 | 15° 9'21 | 27°28 | 8° 9 | 18°37 | 28°14 | 6°53 | 3°29 | 21°31 | 28°20 | 6°31 | 16°56 | 15°38 | 27°29 | n.a. | T 11 |
| F 12 | 19 9 30 | 16° 6'54 | 9♍33 | 10°13 | 19°51 | 28°18 | 7° 1 | 3°30 | 21°35 | 28°22 | 6°32 | 16°51 | 15°35 | 27°35 | n.a. | F 12 |
| S 13 | 19 13 26 | 17° 4'29 | 21°30 | 12°16 | 21° 5 | 28°22 | 7°10 | 3°30 | 21°38 | 28°24 | 6°33 | 16°48 | 15°32 | 27°42 | n.a. | S 13 |
| S 14 | 19 17 23 | 18° 2'04 | 3♎22 | 14°19 | 22°19 | 28°26 | 7°19 | 3°31 | 21°41 | 28°26 | 6°34 | 16°45 | 15°29 | 27°49 | n.a. | S 14 |
| M15 | 19 21 20 | 18°59'40 | 15°15 | 16°22 | 23°34 | 28°28 | 7°27 | 3°31 | 21°45 | 28°29 | 6°35 | 16°D44 | 15°26 | 27°55 | n.a. | M15 |
| T 16 | 19 25 16 | 19°57'18 | 27°13 | 18°25 | 24°48 | 28°30 | 7°35 | 3°32 | 21°48 | 28°31 | 6°36 | 16°44 | 15°22 | 28° 2 | n.a. | T 16 |
| W17 | 19 29 13 | 20°54'57 | 9♏21 | 20°27 | 26° 2 | 28°R30 | 7°44 | 3°32 | 21°51 | 28°33 | 6°37 | 16°46 | 15°19 | 28° 9 | n.a. | W17 |
| T 18 | 19 33 9 | 21°52'36 | 21°43 | 22°28 | 27°16 | 28°30 | 7°52 | 3°32 | 21°55 | 28°35 | 6°39 | 16°47 | 15°16 | 28°16 | n.a. | T 18 |
| F 19 | 19 37 6 | 22°50'18 | 4♐24 | 24°28 | 28°31 | 28°29 | 8° 0 | 3°R32 | 21°58 | 28°37 | 6°40 | 16°49 | 15°13 | 28°22 | n.a. | F 19 |
| S 20 | 19 41 2 | 23°48'00 | 17°26 | 26°26 | 29°45 | 28°28 | 8° 7 | 3°32 | 22° 1 | 28°39 | 6°41 | 16°R49 | 15°10 | 28°29 | n.a. | S 20 |
| S 21 | 19 44 59 | 24°45'44 | 0♑53 | 28°24 | 0♌59 | 28°25 | 8°15 | 3°32 | 22° 4 | 28°41 | 6°42 | 16°48 | 15° 7 | 28°36 | n.a. | S 21 |
| M22 | 19 48 55 | 25°43'29 | 14°43 | 0♌21 | 2°13 | 28°22 | 8°22 | 3°32 | 22° 8 | 28°43 | 6°43 | 16°46 | 15° 3 | 28°42 | n.a. | M22 |
| T 23 | 19 52 52 | 26°41'15 | 28°55 | 2°16 | 3°28 | 28°17 | 8°30 | 3°31 | 22°11 | 28°45 | 6°44 | 16°41 | 15° 0 | 28°49 | n.a. | T 23 |
| W24 | 19 56 49 | 27°39'04 | 13♒23 | 4°10 | 4°42 | 28°12 | 8°37 | 3°31 | 22°14 | 28°47 | 6°45 | 16°36 | 14°57 | 28°56 | n.a. | W24 |
| T 25 | 20 0 45 | 28°36'53 | 28° 2 | 6° 3 | 5°56 | 28° 7 | 8°44 | 3°30 | 22°17 | 28°49 | 6°46 | 16°30 | 14°54 | 29° 3 | n.a. | T 25 |
| F 26 | 20 4 42 | 29°34'45 | 12♓44 | 7°54 | 7°11 | 28° 0 | 8°51 | 3°29 | 22°20 | 28°51 | 6°47 | 16°23 | 14°51 | 29° 9 | n.a. | F 26 |
| S 27 | 20 8 38 | 0♌32'38 | 27°22 | 9°44 | 8°25 | 27°52 | 8°58 | 3°29 | 22°23 | 28°53 | 6°48 | 16°18 | 14°47 | 29°16 | n.a. | S 27 |
| S 28 | 20 12 35 | 1°30'33 | 11♈50 | 11°33 | 9°39 | 27°44 | 9° 4 | 3°28 | 22°26 | 28°55 | 6°49 | 16°15 | 14°44 | 29°23 | n.a. | S 28 |
| M29 | 20 16 31 | 2°28'30 | 26° 5 | 13°21 | 10°54 | 27°35 | 9°11 | 3°27 | 22°29 | 28°57 | 6°50 | 16°13 | 14°41 | 29°29 | n.a. | M29 |
| T 30 | 20 20 28 | 3°26'30 | 10♉ 4 | 15° 7 | 12° 8 | 27°25 | 9°17 | 3°26 | 22°32 | 28°59 | 6°51 | 16°D13 | 14°38 | 29°36 | n.a. | T 30 |
| W31 | 20 24 24 | 4♌24'31 | 23♉47 | 16♌52 | 13♌22 | 27♒15 | 9♉23 | 3♈24 | 22♊35 | 29♊ 1 | 6♊51 | 16♊14 | 14♊35 | 29♍43 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| M 1 | 23n35 | 1n45 | 4s38 | 22n52 | 0s23 | 24n26 | 0n53 | 17s30 | 5s 4 | 12n26 | 1s 4 | 1s 2 | 2s33 | 23n36 | 0n13 | 23n 0 | 0s42 | 16n37 | 5s 4 | 23n 4 | 22n59 | 6n 6 | | n.a. | M 1 |
| T 2 | 23 32 | 7 41 | 3 54 | 23 12 | 0 10 | 24 24 | 0 55 | 17 28 | 5 7 | 12 29 | 1 4 | 1 2 | 2 34 | 23 36 | 0 13 | 23 0 | 0 42 | 16 37 | 5 4 | 23 4 | 22 58 | 6 3 | | n.a. | T 2 |
| W 3 | 23 29 | 13 10 | 2 56 | 23 32 | 0n 2 | 24 21 | 0 56 | 17 27 | 5 10 | 12 32 | 1 4 | 1 1 | 2 34 | 23 36 | 0 13 | 23 0 | 0 42 | 16 37 | 5 4 | 23 5 | 22 58 | 6 0 | | n.a. | W 3 |
| T 4 | 23 26 | 17 56 | 1 49 | 23 49 | 0 14 | 24 17 | 0 58 | 17 27 | 5 14 | 12 36 | 1 4 | 1 1 | 2 34 | 23 37 | 0 13 | 23 0 | 0 42 | 16 37 | 5 4 | 23 5 | 22 58 | 5 58 | | n.a. | T 4 |
| F 5 | 23 22 | 21 41 | 0 36 | 24 4 | 0 25 | 24 13 | 1 0 | 17 26 | 5 17 | 12 39 | 1 4 | 1 0 | 2 35 | 23 37 | 0 13 | 23 0 | 0 42 | 16 38 | 5 4 | 23 5 | 22 57 | 5 55 | | n.a. | F 5 |
| S 6 | 23 18 | 24 11 | 0n37 | 24 18 | 0 36 | 24 8 | 1 2 | 17 26 | 5 20 | 12 42 | 1 4 | 1 0 | 2 35 | 23 37 | 0 13 | 23 0 | 0 41 | 16 38 | 5 4 | 23 5 | 22 57 | 5 52 | | n.a. | S 6 |
| S 7 | 23 13 | 25 18 | 1 47 | 24 28 | 0 46 | 24 2 | 1 3 | 17 26 | 5 24 | 12 45 | 1 4 | 1 0 | 2 35 | 23 37 | 0 13 | 23 0 | 0 41 | 16 38 | 5 4 | 23 5 | 22 57 | 5 49 | | n.a. | S 7 |
| M 8 | 23 8 | 25 0 | 2 51 | 24 37 | 0 56 | 23 56 | 1 5 | 17 26 | 5 27 | 12 48 | 1 4 | 1 0 | 2 35 | 23 38 | 0 13 | 23 0 | 0 41 | 16 38 | 5 4 | 23 4 | 22 56 | 5 46 | | n.a. | M 8 |
| T 9 | 23 2 | 23 23 | 3 44 | 24 42 | 1 4 | 23 49 | 1 6 | 17 26 | 5 30 | 12 51 | 1 4 | 1 0 | 2 36 | 23 38 | 0 13 | 23 0 | 0 41 | 16 38 | 5 4 | 23 4 | 22 56 | 5 43 | | n.a. | T 9 |
| W10 | 22 56 | 20 40 | 4 26 | 24 45 | 1 12 | 23 41 | 1 8 | 17 27 | 5 33 | 12 54 | 1 5 | 0 59 | 2 36 | 23 38 | 0 13 | 23 0 | 0 41 | 16 39 | 5 4 | 23 4 | 22 56 | 5 40 | | n.a. | W10 |
| T 11 | 22 50 | 17 5 | 4 55 | 24 46 | 1 19 | 23 32 | 1 9 | 17 28 | 5 37 | 12 57 | 1 5 | 0 59 | 2 36 | 23 38 | 0 13 | 23 0 | 0 41 | 16 39 | 5 4 | 23 3 | 22 55 | 5 38 | | n.a. | T 11 |
| F 12 | 22 43 | 12 51 | 5 10 | 24 43 | 1 25 | 23 23 | 1 11 | 17 29 | 5 40 | 12 59 | 1 5 | 0 59 | 2 37 | 23 39 | 0 13 | 23 0 | 0 41 | 16 39 | 5 4 | 23 3 | 22 55 | 5 35 | | n.a. | F 12 |
| S 13 | 22 36 | 8 10 | 5 11 | 24 38 | 1 31 | 23 13 | 1 12 | 17 31 | 5 43 | 13 2 | 1 5 | 0 59 | 2 37 | 23 39 | 0 13 | 23 0 | 0 41 | 16 39 | 5 4 | 23 2 | 22 54 | 5 32 | | n.a. | S 13 |
| S 14 | 22 28 | 3 13 | 4 59 | 24 30 | 1 35 | 23 2 | 1 13 | 17 32 | 5 46 | 13 5 | 1 5 | 0 59 | 2 37 | 23 39 | 0 13 | 23 0 | 0 41 | 16 39 | 5 4 | 23 2 | 22 54 | 5 29 | | n.a. | S 14 |
| M15 | 22 20 | 1s51 | 4 35 | 24 20 | 1 39 | 22 51 | 1 14 | 17 34 | 5 49 | 13 7 | 1 5 | 0 59 | 2 38 | 23 39 | 0 13 | 23 0 | 0 41 | 16 39 | 5 4 | 23 2 | 22 54 | 5 26 | | n.a. | M15 |
| T 16 | 22 12 | 6 54 | 3 58 | 24 6 | 1 42 | 22 38 | 1 15 | 17 36 | 5 52 | 13 10 | 1 5 | 0 59 | 2 38 | 23 39 | 0 13 | 23 0 | 0 41 | 16 40 | 5 4 | 23 2 | 22 53 | 5 23 | | n.a. | T 16 |
| W17 | 22 3 | 11 46 | 3 10 | 23 51 | 1 44 | 22 26 | 1 17 | 17 39 | 5 54 | 13 13 | 1 5 | 1 0 | 2 38 | 23 40 | 0 13 | 23 0 | 0 41 | 16 40 | 5 4 | 23 2 | 22 53 | 5 20 | | n.a. | W17 |
| T 18 | 21 54 | 16 16 | 2 12 | 23 33 | 1 46 | 22 12 | 1 18 | 17 41 | 5 57 | 13 15 | 1 5 | 1 0 | 2 38 | 23 40 | 0 13 | 23 0 | 0 41 | 16 40 | 5 4 | 23 2 | 22 53 | 5 17 | | n.a. | T 18 |
| F 19 | 21 45 | 20 9 | 1 7 | 23 13 | 1 47 | 21 58 | 1 19 | 17 44 | 6 0 | 13 18 | 1 6 | 1 0 | 2 39 | 23 40 | 0 13 | 23 0 | 0 41 | 16 40 | 5 4 | 23 2 | 22 52 | 5 15 | | n.a. | F 19 |
| S 20 | 21 35 | 23 10 | 0s 3 | 22 51 | 1 47 | 21 43 | 1 20 | 17 47 | 6 2 | 13 20 | 1 6 | 1 0 | 2 39 | 23 40 | 0 13 | 23 0 | 0 41 | 16 40 | 5 4 | 23 3 | 22 52 | 5 12 | | n.a. | S 20 |
| S 21 | 21 25 | 24 58 | 1 16 | 22 27 | 1 47 | 21 28 | 1 20 | 17 50 | 6 5 | 13 22 | 1 6 | 1 1 | 2 39 | 23 41 | 0 13 | 23 0 | 0 41 | 16 40 | 5 4 | 23 2 | 22 52 | 5 9 | | n.a. | S 21 |
| M22 | 21 14 | 25 17 | 2 26 | 22 1 | 1 46 | 21 12 | 1 21 | 17 54 | 6 7 | 13 25 | 1 6 | 1 1 | 2 40 | 23 41 | 0 13 | 23 0 | 0 41 | 16 40 | 5 4 | 23 2 | 22 51 | 5 6 | | n.a. | M22 |
| T 23 | 21 3 | 24 0 | 3 28 | 21 34 | 1 44 | 20 55 | 1 22 | 17 58 | 6 10 | 13 27 | 1 6 | 1 2 | 2 40 | 23 41 | 0 13 | 23 0 | 0 41 | 16 41 | 5 4 | 23 2 | 22 51 | 5 3 | | n.a. | T 23 |
| W24 | 20 52 | 21 7 | 4 19 | 21 5 | 1 42 | 20 38 | 1 23 | 18 2 | 6 12 | 13 29 | 1 6 | 1 2 | 2 40 | 23 41 | 0 13 | 23 0 | 0 41 | 16 41 | 5 4 | 23 1 | 22 51 | 5 0 | | n.a. | W24 |
| T 25 | 20 40 | 16 51 | 4 53 | 20 35 | 1 40 | 20 20 | 1 23 | 18 6 | 6 14 | 13 31 | 1 6 | 1 2 | 2 40 | 23 41 | 0 13 | 23 0 | 0 41 | 16 41 | 5 4 | 23 1 | 22 50 | 4 57 | | n.a. | T 25 |
| F 26 | 20 28 | 11 35 | 5 8 | 20 3 | 1 37 | 20 2 | 1 24 | 18 10 | 6 16 | 13 34 | 1 6 | 1 3 | 2 41 | 23 42 | 0 13 | 23 0 | 0 41 | 16 41 | 5 4 | 23 0 | 22 50 | 4 54 | | n.a. | F 26 |
| S 27 | 20 15 | 5 41 | 5 3 | 19 30 | 1 33 | 19 43 | 1 24 | 18 14 | 6 18 | 13 36 | 1 6 | 1 4 | 2 41 | 23 42 | 0 13 | 23 0 | 0 41 | 16 41 | 5 4 | 22 59 | 22 50 | 4 51 | | n.a. | S 27 |
| S 28 | 20 3 | 0n28 | 4 39 | 18 56 | 1 30 | 19 23 | 1 25 | 18 19 | 6 20 | 13 38 | 1 7 | 1 4 | 2 41 | 23 42 | 0 13 | 23 1 | 0 41 | 16 41 | 5 4 | 22 59 | 22 49 | 4 48 | | n.a. | S 28 |
| M29 | 19 49 | 6 30 | 3 57 | 18 22 | 1 25 | 19 3 | 1 25 | 18 24 | 6 21 | 13 40 | 1 7 | 1 5 | 2 42 | 23 42 | 0 13 | 23 1 | 0 41 | 16 41 | 5 4 | 22 59 | 22 49 | 4 46 | | n.a. | M29 |
| T 30 | 19 36 | 12 7 | 3 2 | 17 46 | 1 21 | 18 43 | 1 25 | 18 28 | 6 23 | 13 41 | 1 7 | 1 6 | 2 42 | 23 42 | 0 13 | 23 1 | 0 41 | 16 41 | 5 4 | 22 59 | 22 48 | 4 43 | | n.a. | T 30 |
| W31 | 19n22 | 17n 1 | 1s58 | 17n 9 | 1n16 | 18n21 | 1n26 | 18s33 | 6s24 | 13n43 | 1s 7 | 1s 6 | 2s42 | 23n43 | 0n13 | 23n 1 | 0s41 | 16n42 | 5s 4 | 22n59 | 22n48 | 4n40 | | n.a. | W31 |

Julian Day Number = 1697863.5, Delta T = 03h07m06s
Ecliptic obliquity = 23°42'12, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°57'16, Lahiri = - 4°50'16 Julian Calendar 1 July 65 BCE == Greg. Calendar 29 June 065 BCE

The year -64 astronomical counting style corresponds to year 065 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 65 BCE
# geocentric

## AUGUST 65 BCE (-64) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 28 21 | 5♌22'34 | 7♊15 | 18♌35 | 14♌37 | 27°R 4 | 9♉29 | 3°R23 | 22♊38 | 29♊ 3 | 6♊52 | 16♊15 | 14♊32 | 29♍50 | n.a. | T 1 |
| F 2 | 20 32 18 | 6°20'40 | 20°28 | 20°18 | 15°51 | 26♒52 | 9°35 | 3♈22 | 22°41 | 29° 5 | 6°53 | 16°R15 | 14°28 | 29°56 | n.a. | F 2 |
| S 3 | 20 36 14 | 7°18'47 | 3♋29 | 21°59 | 17° 6 | 26°39 | 9°41 | 3°20 | 22°44 | 29° 6 | 6°54 | 16°14 | 14°25 | 0♎ 3 | n.a. | S 3 |
| S 4 | 20 40 11 | 8°16'56 | 16°18 | 23°38 | 18°20 | 26°26 | 9°46 | 3°19 | 22°46 | 29° 8 | 6°55 | 16°10 | 14°22 | 0°10 | n.a. | S 4 |
| M 5 | 20 44 7 | 9°15'08 | 28°56 | 25°17 | 19°35 | 26°13 | 9°51 | 3°17 | 22°49 | 29°10 | 6°56 | 16° 4 | 14°19 | 0°17 | n.a. | M 5 |
| T 6 | 20 48 4 | 10°13'21 | 11♌23 | 26°54 | 20°49 | 25°58 | 9°56 | 3°15 | 22°52 | 29°12 | 6°56 | 15°56 | 14°16 | 0°23 | n.a. | T 6 |
| W 7 | 20 52 0 | 11°11'36 | 23°40 | 28°31 | 22° 4 | 25°44 | 10° 1 | 3°13 | 22°55 | 29°14 | 6°57 | 15°46 | 14°13 | 0°30 | n.a. | W 7 |
| T 8 | 20 55 57 | 12° 9'52 | 5♍48 | 0♍ 6 | 23°18 | 25°28 | 10° 6 | 3°11 | 22°57 | 29°15 | 6°58 | 15°35 | 14° 9 | 0°37 | n.a. | T 8 |
| F 9 | 20 59 53 | 13° 8'11 | 17°48 | 1°39 | 24°32 | 25°13 | 10°11 | 3° 9 | 23° 0 | 29°17 | 6°59 | 15°25 | 14° 6 | 0°43 | n.a. | F 9 |
| S 10 | 21 3 50 | 14° 6'31 | 29°42 | 3°12 | 25°47 | 24°57 | 10°15 | 3° 7 | 23° 3 | 29°19 | 6°59 | 15°15 | 14° 3 | 0°50 | n.a. | S 10 |
| S 11 | 21 7 47 | 15° 4'53 | 11♎33 | 4°43 | 27° 1 | 24°40 | 10°20 | 3° 4 | 23° 5 | 29°20 | 7° 0 | 15° 8 | 14° 0 | 0°57 | n.a. | S 11 |
| M12 | 21 11 43 | 16° 3'16 | 23°24 | 6°14 | 28°16 | 24°24 | 10°24 | 3° 2 | 23° 8 | 29°22 | 7° 1 | 15° 3 | 13°57 | 1° 4 | n.a. | M12 |
| T 13 | 21 15 40 | 17° 1'42 | 5♏19 | 7°43 | 29°30 | 24° 7 | 10°28 | 2°59 | 23°10 | 29°24 | 7° 1 | 15° 0 | 13°53 | 1°10 | n.a. | T 13 |
| W14 | 21 19 36 | 18° 0'09 | 17°23 | 9°11 | 0♍45 | 23°50 | 10°31 | 2°57 | 23°13 | 29°25 | 7° 2 | 15°D 0 | 13°50 | 1°17 | n.a. | W14 |
| T 15 | 21 23 33 | 18°58'38 | 29°42 | 10°37 | 1°59 | 23°32 | 10°35 | 2°54 | 23°15 | 29°27 | 7° 2 | 15° 0 | 13°47 | 1°24 | n.a. | T 15 |
| F 16 | 21 27 29 | 19°57'08 | 12♐20 | 12° 3 | 3°14 | 23°15 | 10°38 | 2°51 | 23°17 | 29°29 | 7° 3 | 15°R 0 | 13°44 | 1°30 | n.a. | F 16 |
| S 17 | 21 31 26 | 20°55'41 | 25°22 | 13°27 | 4°28 | 22°58 | 10°41 | 2°48 | 23°20 | 29°30 | 7° 3 | 15° 0 | 13°41 | 1°37 | n.a. | S 17 |
| S 18 | 21 35 22 | 21°54'15 | 8♑52 | 14°50 | 5°43 | 22°40 | 10°44 | 2°45 | 23°22 | 29°32 | 7° 4 | 14°58 | 13°38 | 1°44 | n.a. | S 18 |
| M19 | 21 39 19 | 22°52'51 | 22°50 | 16°12 | 6°57 | 22°23 | 10°47 | 2°42 | 23°24 | 29°33 | 7° 5 | 14°53 | 13°34 | 1°51 | n.a. | M19 |
| T 20 | 21 43 16 | 23°51'29 | 7♒15 | 17°32 | 8°12 | 22° 6 | 10°50 | 2°39 | 23°26 | 29°35 | 7° 5 | 14°46 | 13°31 | 1°57 | n.a. | T 20 |
| W21 | 21 47 12 | 24°50'08 | 22° 2 | 18°51 | 9°26 | 21°49 | 10°52 | 2°36 | 23°29 | 29°36 | 7° 5 | 14°37 | 13°28 | 2° 4 | n.a. | W21 |
| T 22 | 21 51 9 | 25°48'50 | 7♓ 4 | 20° 8 | 10°41 | 21°32 | 10°54 | 2°33 | 23°31 | 29°37 | 7° 6 | 14°26 | 13°25 | 2°11 | n.a. | T 22 |
| F 23 | 21 55 5 | 26°47'34 | 22°11 | 21°24 | 11°55 | 21°15 | 10°56 | 2°29 | 23°33 | 29°39 | 7° 6 | 14°16 | 13°22 | 2°17 | n.a. | F 23 |
| S 24 | 21 59 2 | 27°46'20 | 7♈12 | 22°39 | 13°10 | 20°59 | 10°58 | 2°26 | 23°35 | 29°40 | 7° 7 | 14° 7 | 13°19 | 2°24 | n.a. | S 24 |
| S 25 | 22 2 58 | 28°45'08 | 21°59 | 23°51 | 14°24 | 20°43 | 11° 0 | 2°22 | 23°37 | 29°42 | 7° 7 | 14° 0 | 13°15 | 2°31 | n.a. | S 25 |
| M26 | 22 6 55 | 29°43'59 | 6♉26 | 25° 3 | 15°39 | 20°27 | 11° 1 | 2°19 | 23°39 | 29°43 | 7° 7 | 13°56 | 13°12 | 2°38 | n.a. | M26 |
| T 27 | 22 10 51 | 0♍42'52 | 20°30 | 26°12 | 16°53 | 20°12 | 11° 3 | 2°15 | 23°41 | 29°44 | 7° 8 | 13°55 | 13° 9 | 2°44 | n.a. | T 27 |
| W28 | 22 14 48 | 1°41'48 | 4♊11 | 27°19 | 18° 8 | 19°57 | 11° 4 | 2°11 | 23°43 | 29°45 | 7° 8 | 13°D54 | 13° 6 | 2°51 | n.a. | W28 |
| T 29 | 22 18 45 | 2°40'46 | 17°30 | 28°24 | 19°22 | 19°43 | 11° 5 | 2° 8 | 23°44 | 29°47 | 7° 8 | 13°R54 | 13° 3 | 2°58 | n.a. | T 29 |
| F 30 | 22 22 41 | 3°39'47 | 0♋31 | 29°27 | 20°37 | 19°29 | 11° 5 | 2° 4 | 23°46 | 29°48 | 7° 9 | 13°53 | 12°59 | 3° 4 | n.a. | F 30 |
| S 31 | 22 26 38 | 4♍38'50 | 13♋16 | 0♎28 | 21♍51 | 19♒15 | 11♉ 6 | 2♈ 0 | 23♊48 | 29♊49 | 7♊ 9 | 13♊51 | 12♊56 | 3♎11 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| T 1 | 19n 8 | 20n58 | 0s48 | 16n32 | 1n10 | 18n 0 | 1n26 | 18s38 | 6s25 | 13n45 | 1s 7 | 1s 7 | 2s42 | 23n43 | 0n13 | 23n 1 | 0s41 | 16n42 | 5s 4 | 22n59 | 22n48 | 4n37 | | | n.a. |
| F 2 | 18 54 | 23 44 | 0n23 | 15 54 | 1 5 | 17 37 | 1 26 | 18 44 | 6 26 | 13 47 | 1 7 | 1 8 | 2 43 | 23 43 | 0 13 | 23 1 | 0 41 | 16 42 | 5 5 | 22 59 | 22 47 | 4 34 | | | n.a. |
| S 3 | 18 39 | 25 11 | 1 31 | 15 16 | 0 59 | 17 15 | 1 26 | 18 49 | 6 27 | 13 49 | 1 7 | 1 9 | 2 43 | 23 43 | 0 13 | 23 1 | 0 41 | 16 42 | 5 5 | 22 59 | 22 47 | 4 31 | | | n.a. |
| S 4 | 18 24 | 25 15 | 2 34 | 14 37 | 0 53 | 16 52 | 1 26 | 18 54 | 6 28 | 13 50 | 1 7 | 1 10 | 2 43 | 23 43 | 0 13 | 23 1 | 0 41 | 16 42 | 5 5 | 22 59 | 22 47 | 4 28 | | | n.a. |
| M 5 | 18 8 | 23 59 | 3 28 | 13 58 | 0 46 | 16 28 | 1 26 | 18 59 | 6 28 | 13 52 | 1 8 | 1 11 | 2 43 | 23 43 | 0 13 | 23 1 | 0 41 | 16 42 | 5 5 | 22 58 | 22 46 | 4 25 | | | n.a. |
| T 6 | 17 53 | 21 34 | 4 11 | 13 18 | 0 40 | 16 4 | 1 26 | 19 5 | 6 29 | 13 53 | 1 8 | 1 12 | 2 44 | 23 44 | 0 13 | 23 1 | 0 41 | 16 42 | 5 5 | 22 57 | 22 46 | 4 22 | | | n.a. |
| W 7 | 17 36 | 18 12 | 4 42 | 12 38 | 0 33 | 15 39 | 1 25 | 19 10 | 6 29 | 13 55 | 1 8 | 1 13 | 2 44 | 23 44 | 0 13 | 23 1 | 0 41 | 16 42 | 5 5 | 22 56 | 22 45 | 4 19 | | | n.a. |
| T 8 | 17 20 | 14 7 | 5 0 | 11 58 | 0 26 | 15 14 | 1 25 | 19 15 | 6 29 | 13 56 | 1 8 | 1 14 | 2 44 | 23 44 | 0 13 | 23 1 | 0 41 | 16 42 | 5 5 | 22 55 | 22 45 | 4 16 | | | n.a. |
| F 9 | 17 4 | 9 31 | 5 4 | 11 18 | 0 19 | 14 49 | 1 25 | 19 21 | 6 29 | 13 57 | 1 8 | 1 15 | 2 44 | 23 44 | 0 13 | 23 1 | 0 41 | 16 42 | 5 5 | 22 54 | 22 45 | 4 13 | | | n.a. |
| S 10 | 16 47 | 4 37 | 4 55 | 10 37 | 0 11 | 14 23 | 1 24 | 19 26 | 6 29 | 13 59 | 1 8 | 1 16 | 2 45 | 23 44 | 0 13 | 23 1 | 0 41 | 16 42 | 5 5 | 22 53 | 22 44 | 4 11 | | | n.a. |
| S 11 | 16 29 | 0s26 | 4 33 | 9 57 | 0 4 | 13 57 | 1 24 | 19 31 | 6 28 | 14 0 | 1 8 | 1 17 | 2 45 | 23 44 | 0 13 | 23 1 | 0 41 | 16 42 | 5 5 | 22 52 | 22 44 | 4 8 | | | n.a. |
| M12 | 16 12 | 5 29 | 3 59 | 9 16 | 0s 4 | 13 30 | 1 23 | 19 36 | 6 27 | 14 1 | 1 8 | 1 18 | 2 45 | 23 45 | 0 13 | 23 1 | 0 41 | 16 42 | 5 5 | 22 51 | 22 44 | 4 5 | | | n.a. |
| T 13 | 15 54 | 10 23 | 3 15 | 8 36 | 0 11 | 13 4 | 1 23 | 19 41 | 6 26 | 14 2 | 1 9 | 1 19 | 2 45 | 23 45 | 0 13 | 23 1 | 0 41 | 16 42 | 5 5 | 22 51 | 22 43 | 4 2 | | | n.a. |
| W14 | 15 36 | 14 57 | 2 22 | 7 55 | 0 19 | 12 36 | 1 22 | 19 46 | 6 25 | 14 3 | 1 9 | 1 21 | 2 46 | 23 45 | 0 13 | 23 1 | 0 42 | 16 42 | 5 5 | 22 51 | 22 43 | 3 59 | | | n.a. |
| T 15 | 15 18 | 19 0 | 1 21 | 7 15 | 0 27 | 12 9 | 1 21 | 19 51 | 6 24 | 14 4 | 1 9 | 1 22 | 2 46 | 23 45 | 0 13 | 23 1 | 0 42 | 16 43 | 5 5 | 22 51 | 22 42 | 3 56 | | | n.a. |
| F 16 | 14 59 | 22 17 | 0 14 | 6 35 | 0 35 | 11 41 | 1 20 | 19 55 | 6 22 | 14 5 | 1 9 | 1 23 | 2 46 | 23 45 | 0 13 | 23 1 | 0 42 | 16 43 | 5 5 | 22 51 | 22 42 | 3 53 | | | n.a. |
| S 17 | 14 41 | 24 32 | 0s55 | 5 55 | 0 43 | 11 13 | 1 20 | 20 0 | 6 21 | 14 6 | 1 9 | 1 25 | 2 46 | 23 45 | 0 13 | 23 1 | 0 42 | 16 43 | 5 5 | 22 51 | 22 42 | 3 50 | | | n.a. |
| S 18 | 14 22 | 25 27 | 2 3 | 5 15 | 0 51 | 10 44 | 1 19 | 20 4 | 6 19 | 14 7 | 1 9 | 1 26 | 2 47 | 23 45 | 0 13 | 23 1 | 0 42 | 16 43 | 5 5 | 22 51 | 22 41 | 3 47 | | | n.a. |
| M19 | 14 2 | 24 49 | 3 7 | 4 36 | 0 59 | 10 15 | 1 18 | 20 8 | 6 17 | 14 8 | 1 9 | 1 28 | 2 47 | 23 45 | 0 13 | 23 1 | 0 42 | 16 43 | 5 5 | 22 50 | 22 41 | 3 44 | | | n.a. |
| T 20 | 13 43 | 22 31 | 4 0 | 3 57 | 1 8 | 9 46 | 1 17 | 20 11 | 6 15 | 14 8 | 1 10 | 1 29 | 2 47 | 23 46 | 0 13 | 23 1 | 0 42 | 16 43 | 5 6 | 22 49 | 22 40 | 3 41 | | | n.a. |
| W21 | 13 23 | 18 42 | 4 39 | 3 18 | 1 16 | 9 17 | 1 15 | 20 15 | 6 12 | 14 9 | 1 10 | 1 30 | 2 47 | 23 46 | 0 13 | 23 1 | 0 42 | 16 43 | 5 6 | 22 48 | 22 40 | 3 38 | | | n.a. |
| T 22 | 13 3 | 13 37 | 4 59 | 2 40 | 1 24 | 8 47 | 1 14 | 20 18 | 6 10 | 14 9 | 1 10 | 1 32 | 2 47 | 23 46 | 0 13 | 23 1 | 0 42 | 16 43 | 5 6 | 22 47 | 22 40 | 3 35 | | | n.a. |
| F 23 | 12 43 | 7 42 | 4 59 | 2 2 | 1 32 | 8 17 | 1 13 | 20 21 | 6 7 | 14 10 | 1 10 | 1 34 | 2 48 | 23 46 | 0 13 | 23 1 | 0 42 | 16 43 | 5 6 | 22 46 | 22 39 | 3 32 | | | n.a. |
| S 24 | 12 23 | 1 21 | 4 38 | 1 25 | 1 40 | 7 47 | 1 12 | 20 24 | 6 4 | 14 10 | 1 10 | 1 35 | 2 48 | 23 46 | 0 13 | 23 1 | 0 42 | 16 43 | 5 6 | 22 45 | 22 39 | 3 29 | | | n.a. |
| S 25 | 12 2 | 4n58 | 3 58 | 0 49 | 1 48 | 7 17 | 1 10 | 20 26 | 6 1 | 14 11 | 1 10 | 1 37 | 2 48 | 23 46 | 0 13 | 23 1 | 0 42 | 16 43 | 5 6 | 22 44 | 22 38 | 3 26 | | | n.a. |
| M26 | 11 41 | 10 55 | 3 4 | 0 13 | 1 56 | 6 47 | 1 9 | 20 28 | 5 58 | 14 11 | 1 10 | 1 38 | 2 48 | 23 46 | 0 13 | 23 1 | 0 42 | 16 43 | 5 6 | 22 44 | 22 38 | 3 23 | | | n.a. |
| T 27 | 11 20 | 16 8 | 2 1 | 0s22 | 2 4 | 6 16 | 1 7 | 20 30 | 5 55 | 14 11 | 1 10 | 1 40 | 2 48 | 23 46 | 0 13 | 23 1 | 0 42 | 16 43 | 5 6 | 22 43 | 22 38 | 3 20 | | | n.a. |
| W28 | 10 59 | 20 23 | 0 51 | 0 56 | 2 12 | 5 45 | 1 6 | 20 32 | 5 51 | 14 12 | 1 11 | 1 42 | 2 49 | 23 47 | 0 13 | 23 1 | 0 42 | 16 43 | 5 6 | 22 43 | 22 37 | 3 17 | | | n.a. |
| T 29 | 10 38 | 23 25 | 0n19 | 1 29 | 2 19 | 5 14 | 1 4 | 20 33 | 5 48 | 14 12 | 1 11 | 1 43 | 2 49 | 23 47 | 0 13 | 23 1 | 0 42 | 16 43 | 5 6 | 22 43 | 22 37 | 3 14 | | | n.a. |
| F 30 | 10 16 | 25 9 | 1 27 | 2 1 | 2 26 | 4 43 | 1 3 | 20 34 | 5 44 | 14 12 | 1 11 | 1 45 | 2 49 | 23 47 | 0 14 | 23 1 | 0 42 | 16 43 | 5 6 | 22 43 | 22 36 | 3 12 | | | n.a. |
| S 31 | 9n55 | 25n30 | 2n28 | 2s32 | 2s34 | 4n12 | 1n 1 | 20s35 | 5s40 | 14n12 | 1s11 | 1s47 | 2s49 | 23n47 | 0n14 | 23n 1 | 0s42 | 16n43 | 5s 6 | 22n43 | 22n36 | 3n 9 | | | n.a. |

Julian Day Number = 1697894.5, Delta T = 03h07m06s
Ecliptic obliquity = 23°42'13, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°57'12, Lahiri = - 4°50'11 Julian Calendar 1 Aug. 65 BCE == Greg. Calendar 30 July 065 BCE

The year -64 astronomical counting style corresponds to year 065 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 65 BCE
# geocentric

## SEPTEMBER 65 BCE (-64) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 22 30 34 | 5♍37'55 | 25♋49 | 1♎26 | 23♍ 6 | 19°R 3 | 11♉ 6 | 1°R56 | 23♊50 | 29♊50 | 7♊ 9 | 13°R45 | 12♊53 | 3♎18 | n.a. | S 1 |
| M 2 | 22 34 31 | 6°37'02 | 8♌11 | 2°21 | 24°20 | 18♒50 | 11°R 6 | 1♈52 | 23°51 | 29°51 | 7° 9 | 13♊36 | 12°50 | 3°25 | n.a. | M 2 |
| T 3 | 22 38 27 | 7°36'12 | 20°24 | 3°13 | 25°35 | 18°39 | 11° 6 | 1°48 | 23°53 | 29°52 | 7° 9 | 13°25 | 12°47 | 3°31 | n.a. | T 3 |
| W 4 | 22 42 24 | 8°35'24 | 2♍30 | 4° 2 | 26°50 | 18°28 | 11° 5 | 1°43 | 23°54 | 29°53 | 7°10 | 13°11 | 12°44 | 3°38 | n.a. | W 4 |
| T 5 | 22 46 20 | 9°34'38 | 14°31 | 4°48 | 28° 4 | 18°18 | 11° 5 | 1°39 | 23°56 | 29°55 | 7°10 | 12°57 | 12°40 | 3°45 | n.a. | T 5 |
| F 6 | 22 50 17 | 10°33'55 | 26°26 | 5°29 | 29°19 | 18° 9 | 11° 4 | 1°35 | 23°57 | 29°55 | 7°10 | 12°42 | 12°37 | 3°51 | n.a. | F 6 |
| S 7 | 22 54 13 | 11°33'13 | 8♎17 | 6° 6 | 0♎33 | 18° 0 | 11° 3 | 1°30 | 23°59 | 29°56 | 7°10 | 12°29 | 12°34 | 3°58 | n.a. | S 7 |
| S 8 | 22 58 10 | 12°32'33 | 20° 7 | 6°38 | 1°48 | 17°52 | 11° 2 | 1°26 | 24° 0 | 29°57 | 7°10 | 12°19 | 12°31 | 4° 5 | n.a. | S 8 |
| M 9 | 23 2 7 | 13°31'55 | 1♏57 | 7° 6 | 3° 2 | 17°45 | 11° 1 | 1°22 | 24° 1 | 29°58 | 7°10 | 12°11 | 12°28 | 4°12 | n.a. | M 9 |
| T 10 | 23 6 3 | 14°31'20 | 13°52 | 7°27 | 4°17 | 17°38 | 10°59 | 1°17 | 24° 2 | 29°59 | 7°R10 | 12° 6 | 12°24 | 4°18 | n.a. | T 10 |
| W11 | 23 10 0 | 15°30'46 | 25°54 | 7°43 | 5°31 | 17°33 | 10°57 | 1°13 | 24° 4 | 0♋ 0 | 7°10 | 12° 3 | 12°21 | 4°25 | n.a. | W11 |
| T 12 | 23 13 56 | 16°30'14 | 8♐ 9 | 7°52 | 6°45 | 17°28 | 10°55 | 1° 8 | 24° 5 | 0° 1 | 7°10 | 12° 3 | 12°18 | 4°32 | n.a. | T 12 |
| F 13 | 23 17 53 | 17°29'44 | 20°43 | 7°R54 | 8° 0 | 17°24 | 10°53 | 1° 3 | 24° 6 | 0° 2 | 7°10 | 12° 3 | 12°15 | 4°38 | n.a. | F 13 |
| S 14 | 23 21 49 | 18°29'16 | 3♑39 | 7°49 | 9°14 | 17°21 | 10°51 | 0°59 | 24° 7 | 0° 2 | 7°10 | 12° 2 | 12°12 | 4°45 | n.a. | S 14 |
| S 15 | 23 25 46 | 19°28'50 | 17° 2 | 7°36 | 10°29 | 17°18 | 10°48 | 0°54 | 24° 8 | 0° 3 | 7°10 | 12° 0 | 12° 9 | 4°52 | n.a. | S 15 |
| M16 | 23 29 42 | 20°28'26 | 0♒56 | 7°14 | 11°43 | 17°17 | 10°45 | 0°49 | 24° 9 | 0° 4 | 7° 9 | 11°55 | 12° 5 | 4°59 | n.a. | M16 |
| T 17 | 23 33 39 | 21°28'03 | 15°20 | 6°44 | 12°58 | 17°D16 | 10°42 | 0°45 | 24°10 | 0° 4 | 7° 9 | 11°48 | 12° 2 | 5° 5 | n.a. | T 17 |
| W18 | 23 37 36 | 22°27'42 | 0♓10 | 6° 6 | 14°12 | 17°16 | 10°39 | 0°40 | 24°10 | 0° 5 | 7° 9 | 11°38 | 11°59 | 5°12 | n.a. | W18 |
| T 19 | 23 41 32 | 23°27'24 | 15°21 | 5°18 | 15°27 | 17°17 | 10°36 | 0°35 | 24°11 | 0° 6 | 7° 9 | 11°27 | 11°56 | 5°19 | n.a. | T 19 |
| F 20 | 23 45 29 | 24°27'07 | 0♈40 | 4°23 | 16°41 | 17°18 | 10°32 | 0°30 | 24°12 | 0° 6 | 7° 9 | 11°16 | 11°53 | 5°25 | n.a. | F 20 |
| S 21 | 23 49 25 | 25°26'52 | 15°58 | 3°21 | 17°55 | 17°21 | 10°29 | 0°25 | 24°13 | 0° 7 | 7° 8 | 11° 7 | 11°50 | 5°32 | n.a. | S 21 |
| S 22 | 23 53 22 | 26°26'40 | 1♉ 3 | 2°13 | 19°10 | 17°24 | 10°25 | 0°21 | 24°13 | 0° 7 | 7° 8 | 10°59 | 11°46 | 5°39 | n.a. | S 22 |
| M23 | 23 57 18 | 27°26'30 | 15°46 | 1° 0 | 20°24 | 17°28 | 10°21 | 0°16 | 24°14 | 0° 8 | 7° 8 | 10°55 | 11°43 | 5°46 | n.a. | M23 |
| T 24 | 0 1 15 | 28°26'22 | 0♊ 3 | 29♍45 | 21°39 | 17°32 | 10°16 | 0°11 | 24°14 | 0° 8 | 7° 7 | 10°52 | 11°40 | 5°52 | n.a. | T 24 |
| W25 | 0 5 11 | 29°26'17 | 13°52 | 28°30 | 22°53 | 17°38 | 10°12 | 0° 6 | 24°15 | 0° 8 | 7° 7 | 10°D52 | 11°37 | 5°59 | n.a. | W25 |
| T 26 | 0 9 8 | 0♎26'14 | 27°14 | 27°16 | 24° 7 | 17°44 | 10° 7 | 0° 1 | 24°15 | 0° 9 | 7° 7 | 10°R52 | 11°34 | 6° 6 | n.a. | T 26 |
| F 27 | 0 13 5 | 1°26'13 | 10♋13 | 26° 6 | 25°22 | 17°51 | 10° 3 | 29♓56 | 24°15 | 0° 9 | 7° 6 | 10°52 | 11°30 | 6°12 | n.a. | F 27 |
| S 28 | 0 17 1 | 2°26'14 | 22°53 | 25° 3 | 26°36 | 17°58 | 9°58 | 29°52 | 24°16 | 0° 9 | 7° 6 | 10°50 | 11°27 | 6°19 | n.a. | S 28 |
| S 29 | 0 20 58 | 3°26'18 | 5♌17 | 24° 7 | 27°50 | 18° 7 | 9°52 | 29°47 | 24°16 | 0°10 | 7° 6 | 10°46 | 11°24 | 6°26 | n.a. | S 29 |
| M30 | 0 24 54 | 4♎26'24 | 17♌29 | 23♍21 | 29♎ 5 | 18♒16 | 9♉47 | 29♓42 | 24♊16 | 0♋10 | 7♊ 5 | 10♊38 | 11♊21 | 6♎33 | n.a. | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 9n33 | 24n31 | 3n22 | 3s 2 | 2s41 | 3n40 | 0n59 | 20s36 | 5s36 | 14n12 | 1s11 | 1s49 | 2s49 | 23n47 | 0n14 | 23n 1 | 0s42 | 16n43 | 5s 6 | 22n42 | 22n36 | 3n 6 | | n.a. |
| M 2 | 9 11 | 22 21 | 4 5 | 3 30 | 2 47 | 3 9 | 0 57 | 20 36 | 5 32 | 14 12 | 1 11 | 1 50 | 2 49 | 23 47 | 0 14 | 23 1 | 0 42 | 16 43 | 5 6 | 22 41 | 22 35 | 3 3 | | n.a. |
| T 3 | 8 49 | 19 12 | 4 36 | 3 57 | 2 54 | 2 37 | 0 56 | 20 36 | 5 28 | 14 12 | 1 11 | 1 52 | 2 50 | 23 47 | 0 14 | 23 1 | 0 42 | 16 42 | 5 6 | 22 40 | 22 35 | 3 0 | | n.a. |
| W 4 | 8 26 | 15 15 | 4 54 | 4 22 | 3 0 | 2 6 | 0 54 | 20 35 | 5 24 | 14 11 | 1 11 | 1 54 | 2 50 | 23 47 | 0 14 | 23 1 | 0 42 | 16 42 | 5 7 | 22 38 | 22 34 | 2 57 | | n.a. |
| T 5 | 8 4 | 10 45 | 4 59 | 4 45 | 3 5 | 1 34 | 0 52 | 20 34 | 5 20 | 14 11 | 1 12 | 1 56 | 2 50 | 23 47 | 0 14 | 23 1 | 0 42 | 16 42 | 5 7 | 22 36 | 22 34 | 2 54 | | n.a. |
| F 6 | 7 41 | 5 52 | 4 51 | 5 6 | 3 10 | 1 2 | 0 50 | 20 33 | 5 16 | 14 11 | 1 12 | 1 58 | 2 50 | 23 47 | 0 14 | 23 1 | 0 42 | 16 42 | 5 7 | 22 34 | 22 34 | 2 51 | | n.a. |
| S 7 | 7 18 | 0 48 | 4 30 | 5 26 | 3 15 | 0 30 | 0 48 | 20 32 | 5 11 | 14 10 | 1 12 | 1 59 | 2 50 | 23 48 | 0 14 | 23 1 | 0 42 | 16 42 | 5 7 | 22 33 | 22 33 | 2 48 | | n.a. |
| S 8 | 6 56 | 4s17 | 3 58 | 5 42 | 3 19 | 0s 2 | 0 45 | 20 30 | 5 7 | 14 10 | 1 12 | 2 1 | 2 50 | 23 48 | 0 14 | 23 0 | 0 42 | 16 42 | 5 7 | 22 31 | 22 33 | 2 45 | | n.a. |
| M 9 | 6 33 | 9 14 | 3 15 | 5 56 | 3 22 | 0 33 | 0 43 | 20 28 | 5 2 | 14 9 | 1 12 | 2 3 | 2 50 | 23 48 | 0 14 | 23 0 | 0 42 | 16 42 | 5 7 | 22 30 | 22 32 | 2 42 | | n.a. |
| T 10 | 6 10 | 13 54 | 2 23 | 6 7 | 3 25 | 1 5 | 0 41 | 20 26 | 4 58 | 14 9 | 1 12 | 2 5 | 2 50 | 23 48 | 0 14 | 23 0 | 0 42 | 16 42 | 5 7 | 22 29 | 22 32 | 2 39 | | n.a. |
| W11 | 5 46 | 18 5 | 1 24 | 6 15 | 3 27 | 1 37 | 0 39 | 20 23 | 4 53 | 14 8 | 1 12 | 2 7 | 2 51 | 23 48 | 0 14 | 23 0 | 0 42 | 16 42 | 5 7 | 22 29 | 22 32 | 2 36 | | n.a. |
| T 12 | 5 23 | 21 34 | 0 21 | 6 19 | 3 27 | 2 9 | 0 37 | 20 21 | 4 49 | 14 7 | 1 12 | 2 9 | 2 51 | 23 48 | 0 14 | 23 0 | 0 42 | 16 42 | 5 7 | 22 29 | 22 31 | 2 33 | | n.a. |
| F 13 | 5 0 | 24 8 | 0s46 | 6 20 | 3 27 | 2 41 | 0 34 | 20 17 | 4 44 | 14 7 | 1 12 | 2 11 | 2 51 | 23 48 | 0 14 | 23 0 | 0 42 | 16 42 | 5 7 | 22 29 | 22 31 | 2 30 | | n.a. |
| S 14 | 4 36 | 25 31 | 1 52 | 6 16 | 3 25 | 3 13 | 0 32 | 20 14 | 4 39 | 14 6 | 1 13 | 2 13 | 2 51 | 23 48 | 0 14 | 23 0 | 0 42 | 16 42 | 5 7 | 22 29 | 22 30 | 2 27 | | n.a. |
| S 15 | 4 13 | 25 28 | 2 54 | 6 8 | 3 22 | 3 44 | 0 30 | 20 10 | 4 35 | 14 5 | 1 13 | 2 15 | 2 51 | 23 48 | 0 14 | 23 0 | 0 42 | 16 42 | 5 7 | 22 29 | 22 30 | 2 24 | | n.a. |
| M16 | 3 49 | 23 52 | 3 48 | 5 55 | 3 18 | 4 16 | 0 27 | 20 7 | 4 30 | 14 4 | 1 13 | 2 17 | 2 51 | 23 48 | 0 14 | 23 0 | 0 42 | 16 42 | 5 7 | 22 28 | 22 29 | 2 21 | | n.a. |
| T 17 | 3 25 | 20 42 | 4 30 | 5 38 | 3 11 | 4 48 | 0 25 | 20 2 | 4 26 | 14 3 | 1 13 | 2 19 | 2 51 | 23 48 | 0 14 | 23 0 | 0 42 | 16 42 | 5 7 | 22 27 | 22 29 | 2 18 | | n.a. |
| W18 | 3 1 | 16 7 | 4 55 | 5 15 | 3 4 | 5 19 | 0 22 | 19 58 | 4 21 | 14 2 | 1 13 | 2 21 | 2 51 | 23 48 | 0 14 | 23 0 | 0 42 | 16 41 | 5 7 | 22 26 | 22 29 | 2 15 | | n.a. |
| T 19 | 2 38 | 10 26 | 5 0 | 4 47 | 2 54 | 5 51 | 0 20 | 19 53 | 4 16 | 14 1 | 1 13 | 2 23 | 2 51 | 23 48 | 0 14 | 23 0 | 0 42 | 16 41 | 5 7 | 22 24 | 22 28 | 2 12 | | n.a. |
| F 20 | 2 14 | 4 4 | 4 44 | 4 14 | 2 42 | 6 22 | 0 17 | 19 48 | 4 12 | 13 59 | 1 13 | 2 25 | 2 51 | 23 48 | 0 14 | 23 0 | 0 42 | 16 41 | 5 8 | 22 23 | 22 28 | 2 9 | | n.a. |
| S 21 | 1 50 | 2n33 | 4 7 | 3 37 | 2 28 | 6 53 | 0 15 | 19 43 | 4 7 | 13 58 | 1 13 | 2 27 | 2 51 | 23 48 | 0 14 | 23 0 | 0 42 | 16 41 | 5 8 | 22 21 | 22 27 | 2 6 | | n.a. |
| S 22 | 1 26 | 8 56 | 3 14 | 2 55 | 2 13 | 7 24 | 0 12 | 19 38 | 4 3 | 13 57 | 1 13 | 2 29 | 2 51 | 23 49 | 0 14 | 23 0 | 0 42 | 16 41 | 5 8 | 22 20 | 22 27 | 2 3 | | n.a. |
| M23 | 1 2 | 14 41 | 2 9 | 2 10 | 1 56 | 7 55 | 0 9 | 19 33 | 3 58 | 13 56 | 1 13 | 2 30 | 2 51 | 23 49 | 0 14 | 23 0 | 0 42 | 16 41 | 5 8 | 22 20 | 22 26 | 2 0 | | n.a. |
| T 24 | 0 38 | 19 27 | 0 57 | 1 23 | 1 37 | 8 25 | 0 7 | 19 27 | 3 54 | 13 54 | 1 13 | 2 32 | 2 51 | 23 49 | 0 14 | 23 0 | 0 42 | 16 41 | 5 8 | 22 19 | 22 26 | 1 57 | | n.a. |
| W25 | 0 14 | 22 59 | 0n16 | 0 34 | 1 17 | 8 56 | 0 4 | 19 21 | 3 49 | 13 53 | 1 14 | 2 34 | 2 51 | 23 49 | 0 14 | 23 0 | 0 42 | 16 41 | 5 8 | 22 19 | 22 26 | 1 54 | | n.a. |
| T 26 | 0s11 | 25 6 | 1 26 | 0n14 | 0 57 | 9 26 | 0 1 | 19 15 | 3 45 | 13 51 | 1 14 | 2 36 | 2 51 | 23 49 | 0 14 | 23 0 | 0 42 | 16 41 | 5 8 | 22 19 | 22 25 | 1 51 | | n.a. |
| F 27 | 0 35 | 25 47 | 2 29 | 1 1 | 0 36 | 9 56 | 0s 1 | 19 8 | 3 40 | 13 50 | 1 14 | 2 38 | 2 51 | 23 49 | 0 14 | 23 0 | 0 42 | 16 40 | 5 8 | 22 19 | 22 25 | 1 48 | | n.a. |
| S 28 | 0 59 | 25 5 | 3 24 | 1 45 | 0 16 | 10 26 | 0 4 | 19 2 | 3 36 | 13 48 | 1 14 | 2 40 | 2 51 | 23 49 | 0 14 | 23 0 | 0 42 | 16 40 | 5 8 | 22 19 | 22 24 | 1 45 | | n.a. |
| S 29 | 1 23 | 23 9 | 4 7 | 2 25 | 0n 4 | 10 55 | 0 7 | 18 55 | 3 31 | 13 46 | 1 14 | 2 42 | 2 51 | 23 49 | 0 14 | 23 0 | 0 42 | 16 40 | 5 8 | 22 18 | 22 24 | 1 42 | | n.a. |
| M30 | 1s47 | 20n10 | 4n38 | 3n 1 | 0n23 | 11s25 | 0s 9 | 18s48 | 3s27 | 13n44 | 1s14 | 2s44 | 2s51 | 23n49 | 0n14 | 23n 0 | 0s42 | 16n40 | 5s 8 | 22n17 | 22n23 | 1n39 | | n.a. |

Julian Day Number = 1697925.5, Delta T = 03h07m05s
Ecliptic obliquity = 23°42'13, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°57'08, Lahiri = - 4°50'07 Julian Calendar 1 Sept. 65 BCE == Greg. Calendar 30 Aug. 065 BCE

The year -64 astronomical counting style corresponds to year 065 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 65 BCE
# geocentric

## OCTOBER 65 BCE (-64) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 28 51 | 5♎26'32 | 29♌33 | 22°R47 | 0♏19 | 18♒25 | 9°R42 | 29°R37 | 24♊16 | 0♋10 | 7°R 5 | 10°R29 | 11♊18 | 6♎39 | n.a. | T 1 |
| W 2 | 0 32 47 | 6°26'42 | 11♍31 | 22♍23 | 1°33 | 18°36 | 9♉36 | 29♓32 | 24°R16 | 0°10 | 7♊ 4 | 10♊17 | 11°15 | 6°46 | n.a. | W 2 |
| T 3 | 0 36 44 | 7°26'54 | 23°25 | 22°11 | 2°48 | 18°47 | 9°30 | 29°28 | 24°16 | 0°10 | 7° 4 | 10° 5 | 11°11 | 6°53 | n.a. | T 3 |
| F 4 | 0 40 40 | 8°27'09 | 5♎17 | 22°D10 | 4° 2 | 18°58 | 9°24 | 29°23 | 24°16 | 0°10 | 7° 3 | 9°52 | 11° 8 | 6°59 | n.a. | F 4 |
| S 5 | 0 44 37 | 9°27'25 | 17° 8 | 22°21 | 5°16 | 19°11 | 9°18 | 29°18 | 24°16 | 0°R10 | 7° 3 | 9°41 | 11° 5 | 7° 6 | n.a. | S 5 |
| S 6 | 0 48 33 | 10°27'42 | 28°59 | 22°42 | 6°31 | 19°24 | 9°12 | 29°13 | 24°16 | 0°10 | 7° 2 | 9°31 | 11° 2 | 7°13 | n.a. | S 6 |
| M 7 | 0 52 30 | 11°28'02 | 10♏53 | 23°12 | 7°45 | 19°38 | 9° 5 | 29° 9 | 24°16 | 0°10 | 7° 1 | 9°25 | 10°59 | 7°19 | n.a. | M 7 |
| T 8 | 0 56 27 | 12°28'24 | 22°52 | 23°52 | 8°59 | 19°52 | 8°59 | 29° 4 | 24°15 | 0°10 | 7° 1 | 9°21 | 10°56 | 7°26 | n.a. | T 8 |
| W 9 | 1 0 23 | 13°28'47 | 4♐58 | 24°39 | 10°13 | 20° 7 | 8°52 | 28°59 | 24°15 | 0°10 | 7° 0 | 9°D19 | 10°52 | 7°33 | n.a. | W 9 |
| T 10 | 1 4 20 | 14°29'11 | 17°16 | 25°33 | 11°28 | 20°22 | 8°45 | 28°55 | 24°15 | 0°10 | 6°59 | 9°19 | 10°49 | 7°40 | n.a. | T 10 |
| F 11 | 1 8 16 | 15°29'38 | 29°49 | 26°34 | 12°42 | 20°38 | 8°39 | 28°50 | 24°14 | 0°10 | 6°59 | 9°20 | 10°46 | 7°46 | n.a. | F 11 |
| S 12 | 1 12 13 | 16°30'05 | 12♑41 | 27°40 | 13°56 | 20°55 | 8°32 | 28°46 | 24°14 | 0°10 | 6°58 | 9°R21 | 10°43 | 7°53 | n.a. | S 12 |
| S 13 | 1 16 9 | 17°30'35 | 25°57 | 28°51 | 15°10 | 21°12 | 8°24 | 28°41 | 24°13 | 0° 9 | 6°57 | 9°21 | 10°40 | 8° 0 | n.a. | S 13 |
| M14 | 1 20 6 | 18°31'05 | 9♒40 | 0♎ 5 | 16°24 | 21°30 | 8°17 | 28°37 | 24°13 | 0° 9 | 6°57 | 9°19 | 10°36 | 8° 6 | n.a. | M14 |
| T 15 | 1 24 2 | 19°31'37 | 23°51 | 1°23 | 17°39 | 21°48 | 8°10 | 28°33 | 24°12 | 0° 9 | 6°56 | 9°14 | 10°33 | 8°13 | n.a. | T 15 |
| W16 | 1 27 59 | 20°32'10 | 8♓29 | 2°44 | 18°53 | 22° 7 | 8° 2 | 28°28 | 24°11 | 0° 8 | 6°55 | 9° 8 | 10°30 | 8°20 | n.a. | W16 |
| T 17 | 1 31 56 | 21°32'45 | 23°29 | 4° 8 | 20° 7 | 22°26 | 7°55 | 28°24 | 24°10 | 0° 8 | 6°54 | 9° 1 | 10°27 | 8°27 | n.a. | T 17 |
| F 18 | 1 35 52 | 22°33'21 | 8♈43 | 5°33 | 21°21 | 22°45 | 7°47 | 28°20 | 24°10 | 0° 8 | 6°54 | 8°54 | 10°24 | 8°33 | n.a. | F 18 |
| S 19 | 1 39 49 | 23°33'58 | 24° 0 | 7° 1 | 22°35 | 23° 6 | 7°40 | 28°16 | 24° 9 | 0° 7 | 6°53 | 8°47 | 10°21 | 8°40 | n.a. | S 19 |
| S 20 | 1 43 45 | 24°34'37 | 9♉10 | 8°29 | 23°49 | 23°26 | 7°32 | 28°12 | 24° 8 | 0° 7 | 6°52 | 8°42 | 10°17 | 8°47 | n.a. | S 20 |
| M21 | 1 47 42 | 25°35'18 | 24° 3 | 9°59 | 25° 3 | 23°47 | 7°24 | 28° 8 | 24° 7 | 0° 6 | 6°51 | 8°39 | 10°14 | 8°53 | n.a. | M21 |
| T 22 | 1 51 38 | 26°36'01 | 8♊32 | 11°30 | 26°17 | 24° 9 | 7°16 | 28° 4 | 24° 6 | 0° 6 | 6°50 | 8°D38 | 10°11 | 9° 0 | n.a. | T 22 |
| W23 | 1 55 35 | 27°36'45 | 22°33 | 13° 2 | 27°31 | 24°31 | 7° 8 | 28° 0 | 24° 5 | 0° 5 | 6°49 | 8°39 | 10° 8 | 9° 7 | n.a. | W23 |
| T 24 | 1 59 31 | 28°37'31 | 6♋ 5 | 14°34 | 28°45 | 24°53 | 7° 0 | 27°56 | 24° 4 | 0° 4 | 6°48 | 8°40 | 10° 5 | 9°14 | n.a. | T 24 |
| F 25 | 2 3 28 | 29°38'18 | 19°11 | 16° 7 | 29°59 | 25°16 | 6°52 | 27°52 | 24° 3 | 0° 4 | 6°47 | 8°42 | 10° 1 | 9°20 | n.a. | F 25 |
| S 26 | 2 7 25 | 0♏39'08 | 1♌54 | 17°40 | 1♐13 | 25°39 | 6°44 | 27°49 | 24° 1 | 0° 3 | 6°46 | 8°R42 | 9°58 | 9°27 | n.a. | S 26 |
| S 27 | 2 11 21 | 1°39'59 | 14°18 | 19°13 | 2°27 | 26° 2 | 6°36 | 27°45 | 24° 0 | 0° 2 | 6°46 | 8°41 | 9°55 | 9°34 | n.a. | S 27 |
| M28 | 2 15 18 | 2°40'51 | 26°28 | 20°47 | 3°41 | 26°26 | 6°28 | 27°41 | 23°59 | 0° 2 | 6°45 | 8°39 | 9°52 | 9°40 | n.a. | M28 |
| T 29 | 2 19 14 | 3°41'45 | 8♍28 | 22°20 | 4°55 | 26°51 | 6°19 | 27°38 | 23°57 | 0° 1 | 6°44 | 8°34 | 9°49 | 9°47 | n.a. | T 29 |
| W30 | 2 23 11 | 4°42'40 | 20°22 | 23°54 | 6° 9 | 27°15 | 6°11 | 27°35 | 23°56 | 0° 0 | 6°43 | 8°29 | 9°46 | 9°54 | n.a. | W30 |
| T 31 | 2 27 7 | 5♏43'37 | 2♎12 | 25♎28 | 7♐23 | 27♒40 | 6♉ 3 | 27♓31 | 23♊55 | 29♊59 | 6♊42 | 8♊23 | 9♊42 | 10♎ 0 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| T 1 | 2s11 | 16n23 | 4n57 | 3n32 | 0n41 | 11s54 | 0s12 | 18s41 | 3s23 | 13n43 | 1s14 | 2s46 | 2s51 | 23n49 | 0n14 | 23n 0 | 0s42 | 16n40 | 5s 8 | 22n16 | 22n23 | 1n36 | | | n.a. |
| W 2 | 2 35 | 11 58 | 5 2 | 3 56 | 0 57 | 12 23 | 0 15 | 18 34 | 3 19 | 13 41 | 1 14 | 2 48 | 2 51 | 23 49 | 0 14 | 23 0 | 0 42 | 16 40 | 5 8 | 22 14 | 22 22 | 1 33 | | | n.a. |
| T 3 | 2 59 | 7 8 | 4 54 | 4 14 | 1 12 | 12 51 | 0 18 | 18 26 | 3 14 | 13 39 | 1 14 | 2 50 | 2 51 | 23 49 | 0 14 | 23 0 | 0 42 | 16 40 | 5 8 | 22 12 | 22 22 | 1 30 | | | n.a. |
| F 4 | 3 23 | 2 4 | 4 34 | 4 27 | 1 25 | 13 19 | 0 20 | 18 18 | 3 10 | 13 37 | 1 14 | 2 52 | 2 51 | 23 49 | 0 14 | 23 0 | 0 42 | 16 40 | 5 8 | 22 11 | 22 22 | 1 27 | | | n.a. |
| S 5 | 3 47 | 3s 5 | 4 1 | 4 33 | 1 37 | 13 47 | 0 23 | 18 11 | 3 6 | 13 35 | 1 14 | 2 54 | 2 51 | 23 49 | 0 14 | 23 0 | 0 42 | 16 39 | 5 8 | 22 9 | 22 21 | 1 24 | | | n.a. |
| S 6 | 4 11 | 8 9 | 3 18 | 4 33 | 1 46 | 14 15 | 0 26 | 18 3 | 3 2 | 13 33 | 1 14 | 2 55 | 2 51 | 23 49 | 0 14 | 23 0 | 0 42 | 16 39 | 5 8 | 22 7 | 22 21 | 1 21 | | | n.a. |
| M 7 | 4 35 | 12 57 | 2 26 | 4 28 | 1 54 | 14 42 | 0 29 | 17 54 | 2 58 | 13 31 | 1 14 | 2 57 | 2 51 | 23 49 | 0 14 | 23 0 | 0 42 | 16 39 | 5 8 | 22 6 | 22 20 | 1 18 | | | n.a. |
| T 8 | 4 59 | 17 17 | 1 27 | 4 19 | 2 1 | 15 9 | 0 31 | 17 46 | 2 54 | 13 29 | 1 14 | 2 59 | 2 51 | 23 49 | 0 14 | 23 0 | 0 42 | 16 39 | 5 9 | 22 6 | 22 20 | 1 15 | | | n.a. |
| W 9 | 5 23 | 20 59 | 0 23 | 4 4 | 2 6 | 15 35 | 0 34 | 17 38 | 2 50 | 13 27 | 1 14 | 3 1 | 2 51 | 23 49 | 0 14 | 23 0 | 0 42 | 16 39 | 5 9 | 22 6 | 22 19 | 1 12 | | | n.a. |
| T 10 | 5 46 | 23 48 | 0s43 | 3 46 | 2 10 | 16 1 | 0 37 | 17 29 | 2 46 | 13 24 | 1 14 | 3 3 | 2 51 | 23 49 | 0 14 | 23 0 | 0 42 | 16 39 | 5 9 | 22 6 | 22 19 | 1 8 | | | n.a. |
| F 11 | 6 10 | 25 30 | 1 48 | 3 24 | 2 12 | 16 27 | 0 39 | 17 20 | 2 43 | 13 22 | 1 14 | 3 4 | 2 51 | 23 49 | 0 14 | 23 0 | 0 42 | 16 39 | 5 9 | 22 6 | 22 18 | 1 5 | | | n.a. |
| S 12 | 6 33 | 25 54 | 2 49 | 2 59 | 2 13 | 16 52 | 0 42 | 17 11 | 2 39 | 13 20 | 1 14 | 3 6 | 2 51 | 23 49 | 0 14 | 23 0 | 0 42 | 16 38 | 5 9 | 22 6 | 22 18 | 1 2 | | | n.a. |
| S 13 | 6 57 | 24 51 | 3 44 | 2 30 | 2 14 | 17 17 | 0 45 | 17 2 | 2 35 | 13 18 | 1 14 | 3 8 | 2 50 | 23 49 | 0 14 | 23 0 | 0 42 | 16 38 | 5 9 | 22 6 | 22 18 | 0 59 | | | n.a. |
| M14 | 7 20 | 22 19 | 4 28 | 2 0 | 2 13 | 17 41 | 0 48 | 16 53 | 2 32 | 13 15 | 1 14 | 3 9 | 2 50 | 23 49 | 0 14 | 23 0 | 0 42 | 16 38 | 5 9 | 22 5 | 22 17 | 0 56 | | | n.a. |
| T 15 | 7 43 | 18 22 | 4 57 | 1 27 | 2 12 | 18 5 | 0 50 | 16 44 | 2 28 | 13 13 | 1 14 | 3 11 | 2 50 | 23 49 | 0 15 | 23 0 | 0 42 | 16 38 | 5 9 | 22 5 | 22 17 | 0 53 | | | n.a. |
| W16 | 8 6 | 13 13 | 5 7 | 0 53 | 2 10 | 18 28 | 0 53 | 16 34 | 2 24 | 13 11 | 1 14 | 3 13 | 2 50 | 23 49 | 0 15 | 23 0 | 0 42 | 16 38 | 5 9 | 22 4 | 22 16 | 0 50 | | | n.a. |
| T 17 | 8 29 | 7 10 | 4 58 | 0 17 | 2 7 | 18 51 | 0 55 | 16 24 | 2 21 | 13 8 | 1 14 | 3 14 | 2 50 | 23 49 | 0 15 | 23 0 | 0 42 | 16 38 | 5 9 | 22 3 | 22 16 | 0 47 | | | n.a. |
| F 18 | 8 52 | 0 36 | 4 27 | 0s21 | 2 4 | 19 14 | 0 58 | 16 15 | 2 17 | 13 6 | 1 14 | 3 16 | 2 50 | 23 49 | 0 15 | 23 0 | 0 42 | 16 37 | 5 9 | 22 2 | 22 15 | 0 44 | | | n.a. |
| S 19 | 9 15 | 6n 3 | 3 37 | 0 59 | 2 0 | 19 36 | 1 1 | 16 5 | 2 14 | 13 3 | 1 14 | 3 17 | 2 50 | 23 49 | 0 15 | 23 0 | 0 42 | 16 37 | 5 9 | 22 1 | 22 15 | 0 41 | | | n.a. |
| S 20 | 9 38 | 12 18 | 2 33 | 1 38 | 1 56 | 19 57 | 1 3 | 15 55 | 2 11 | 13 1 | 1 14 | 3 19 | 2 50 | 23 49 | 0 15 | 23 0 | 0 42 | 16 37 | 5 9 | 22 0 | 22 14 | 0 38 | | | n.a. |
| M21 | 10 0 | 17 44 | 1 18 | 2 18 | 1 51 | 20 18 | 1 6 | 15 44 | 2 7 | 12 58 | 1 14 | 3 20 | 2 49 | 23 49 | 0 15 | 23 0 | 0 42 | 16 37 | 5 9 | 21 59 | 22 14 | 0 35 | | | n.a. |
| T 22 | 10 22 | 21 58 | 0 1 | 2 59 | 1 46 | 20 38 | 1 8 | 15 34 | 2 4 | 12 56 | 1 14 | 3 22 | 2 49 | 23 49 | 0 15 | 23 0 | 0 42 | 16 37 | 5 9 | 21 59 | 22 13 | 0 32 | | | n.a. |
| W23 | 10 44 | 24 44 | 1n15 | 3 40 | 1 40 | 20 58 | 1 11 | 15 24 | 2 1 | 12 53 | 1 14 | 3 23 | 2 49 | 23 49 | 0 15 | 23 0 | 0 42 | 16 37 | 5 9 | 21 59 | 22 13 | 0 29 | | | n.a. |
| T 24 | 11 6 | 25 57 | 2 23 | 4 21 | 1 35 | 21 17 | 1 13 | 15 13 | 1 58 | 12 51 | 1 14 | 3 25 | 2 49 | 23 49 | 0 15 | 23 0 | 0 42 | 16 36 | 5 9 | 22 0 | 22 12 | 0 26 | | | n.a. |
| F 25 | 11 28 | 25 39 | 3 22 | 5 2 | 1 29 | 21 36 | 1 15 | 15 2 | 1 55 | 12 48 | 1 13 | 3 26 | 2 49 | 23 49 | 0 15 | 23 0 | 0 42 | 16 36 | 5 9 | 22 0 | 22 12 | 0 23 | | | n.a. |
| S 26 | 11 50 | 24 0 | 4 9 | 5 44 | 1 23 | 21 54 | 1 18 | 14 52 | 1 52 | 12 45 | 1 13 | 3 27 | 2 49 | 23 49 | 0 15 | 23 0 | 0 42 | 16 36 | 5 9 | 22 0 | 22 11 | 0 20 | | | n.a. |
| S 27 | 12 11 | 21 14 | 4 44 | 6 25 | 1 17 | 22 11 | 1 20 | 14 41 | 1 49 | 12 43 | 1 13 | 3 28 | 2 48 | 23 49 | 0 15 | 23 0 | 0 42 | 16 36 | 5 9 | 22 0 | 22 11 | 0 17 | | | n.a. |
| M28 | 12 32 | 17 35 | 5 4 | 7 7 | 1 10 | 22 28 | 1 22 | 14 30 | 1 46 | 12 40 | 1 13 | 3 30 | 2 48 | 23 49 | 0 15 | 23 0 | 0 42 | 16 36 | 5 9 | 21 59 | 22 11 | 0 14 | | | n.a. |
| T 29 | 12 53 | 13 17 | 5 11 | 7 48 | 1 4 | 22 44 | 1 24 | 14 18 | 1 43 | 12 38 | 1 13 | 3 31 | 2 48 | 23 49 | 0 15 | 23 0 | 0 42 | 16 36 | 5 9 | 21 59 | 22 10 | 0 11 | | | n.a. |
| W30 | 13 14 | 8 31 | 5 4 | 8 29 | 0 57 | 23 0 | 1 27 | 14 7 | 1 40 | 12 35 | 1 13 | 3 32 | 2 48 | 23 49 | 0 15 | 23 0 | 0 42 | 16 35 | 5 9 | 21 58 | 22 10 | 0 8 | | | n.a. |
| T 31 | 13s35 | 3n28 | 4n45 | 9s10 | 0n51 | 23s14 | 1s29 | 13s56 | 1s37 | 12n32 | 1s13 | 3s33 | 2s48 | 23n49 | 0n15 | 23n 0 | 0s42 | 16n35 | 5s 9 | 21n57 | 22n 9 | 0n 5 | | | n.a. |

Julian Day Number = 1697955.5, Delta T = 03h07m04s
Ecliptic obliquity = 23°42'14, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°57'04, Lahiri = - 4°50'03 Julian Calendar 1 Oct. 65 BCE == Greg. Calendar 29 Sept. 065 BCE

The year -64 astronomical counting style corresponds to year 065 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 65 BCE
# geocentric

## NOVEMBER 65 BCE (-64) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 2 31 4 | 6♏44'35 | 14♎ 3 | 27♎ 2 | 8♐37 | 28♒ 6 | 5°R55 | 27°R28 | 23°R53 | 29°R59 | 6°R41 | 8°R16 | 9♊39 | 10♎ 7 | n.a. | F 1 |
| S 2 | 2 35 0 | 7°45'34 | 25°56 | 28°36 | 9°50 | 28°31 | 5♉47 | 27♓25 | 23♊52 | 29♊58 | 6♊40 | 8♊11 | 9°36 | 10°14 | n.a. | S 2 |
| S 3 | 2 38 57 | 8°46'34 | 7♏53 | 0♏10 | 11° 4 | 28°57 | 5°38 | 27°22 | 23°50 | 29°57 | 6°38 | 8° 6 | 9°33 | 10°21 | n.a. | S 3 |
| M 4 | 2 42 54 | 9°47'36 | 19°55 | 1°44 | 12°18 | 29°24 | 5°30 | 27°19 | 23°48 | 29°56 | 6°37 | 8° 3 | 9°30 | 10°27 | n.a. | M 4 |
| T 5 | 2 46 50 | 10°48'39 | 2♐ 4 | 3°18 | 13°32 | 29°50 | 5°22 | 27°16 | 23°47 | 29°55 | 6°36 | 8°D 2 | 9°27 | 10°34 | n.a. | T 5 |
| W 6 | 2 50 47 | 11°49'42 | 14°23 | 4°52 | 14°46 | 0♓17 | 5°14 | 27°14 | 23°45 | 29°54 | 6°35 | 8° 2 | 9°23 | 10°41 | n.a. | W 6 |
| T 7 | 2 54 43 | 12°50'47 | 26°52 | 6°27 | 15°59 | 0°44 | 5° 6 | 27°11 | 23°43 | 29°53 | 6°34 | 8° 3 | 9°20 | 10°47 | n.a. | T 7 |
| F 8 | 2 58 40 | 13°51'52 | 9♑34 | 8° 1 | 17°13 | 1°12 | 4°58 | 27° 8 | 23°42 | 29°52 | 6°33 | 8° 4 | 9°17 | 10°54 | n.a. | F 8 |
| S 9 | 3 2 36 | 14°52'58 | 22°32 | 9°35 | 18°27 | 1°40 | 4°50 | 27° 6 | 23°40 | 29°51 | 6°32 | 8° 6 | 9°14 | 11° 1 | n.a. | S 9 |
| S 10 | 3 6 33 | 15°54'04 | 5♒48 | 11° 9 | 19°40 | 2° 8 | 4°42 | 27° 4 | 23°38 | 29°50 | 6°31 | 8° 7 | 9°11 | 11° 7 | n.a. | S 10 |
| M11 | 3 10 29 | 16°55'11 | 19°25 | 12°43 | 20°54 | 2°36 | 4°34 | 27° 1 | 23°36 | 29°49 | 6°30 | 8°R 8 | 9° 7 | 11°14 | n.a. | M11 |
| T 12 | 3 14 26 | 17°56'19 | 3♓23 | 14°17 | 22° 7 | 3° 5 | 4°26 | 26°59 | 23°34 | 29°47 | 6°29 | 8° 7 | 9° 4 | 11°21 | n.a. | T 12 |
| W13 | 3 18 23 | 18°57'26 | 17°42 | 15°51 | 23°21 | 3°34 | 4°19 | 26°57 | 23°32 | 29°46 | 6°27 | 8° 5 | 9° 1 | 11°28 | n.a. | W13 |
| T 14 | 3 22 19 | 19°58'35 | 2♈20 | 17°25 | 24°34 | 4° 3 | 4°11 | 26°55 | 23°30 | 29°45 | 6°26 | 8° 3 | 8°58 | 11°34 | n.a. | T 14 |
| F 15 | 3 26 16 | 20°59'43 | 17°11 | 19° 0 | 25°48 | 4°32 | 4° 4 | 26°53 | 23°28 | 29°44 | 6°25 | 8° 1 | 8°55 | 11°41 | n.a. | F 15 |
| S 16 | 3 30 12 | 22° 0'52 | 2♉ 9 | 20°34 | 27° 1 | 5° 2 | 3°56 | 26°52 | 23°26 | 29°43 | 6°24 | 7°59 | 8°52 | 11°48 | n.a. | S 16 |
| S 17 | 3 34 9 | 23° 2'02 | 17° 5 | 22° 8 | 28°15 | 5°31 | 3°49 | 26°50 | 23°24 | 29°41 | 6°23 | 7°57 | 8°48 | 11°54 | n.a. | S 17 |
| M18 | 3 38 5 | 24° 3'12 | 1♊51 | 23°43 | 29°28 | 6° 1 | 3°42 | 26°49 | 23°22 | 29°40 | 6°22 | 7°D56 | 8°45 | 12° 1 | n.a. | M18 |
| T 19 | 3 42 2 | 25° 4'23 | 16°19 | 25°18 | 0♑41 | 6°32 | 3°34 | 26°47 | 23°19 | 29°39 | 6°20 | 7°56 | 8°42 | 12° 8 | n.a. | T 19 |
| W20 | 3 45 58 | 26° 5'35 | 0♋25 | 26°53 | 1°54 | 7° 2 | 3°27 | 26°46 | 23°17 | 29°37 | 6°19 | 7°57 | 8°39 | 12°14 | n.a. | W20 |
| T 21 | 3 49 55 | 27° 6'47 | 14° 5 | 28°28 | 3° 8 | 7°33 | 3°21 | 26°45 | 23°15 | 29°36 | 6°18 | 7°58 | 8°36 | 12°21 | n.a. | T 21 |
| F 22 | 3 53 52 | 28° 8'00 | 27°20 | 0♐ 3 | 4°21 | 8° 3 | 3°14 | 26°44 | 23°13 | 29°35 | 6°17 | 7°59 | 8°33 | 12°28 | n.a. | F 22 |
| S 23 | 3 57 48 | 29° 9'13 | 10♌10 | 1°39 | 5°34 | 8°34 | 3° 7 | 26°43 | 23°10 | 29°33 | 6°16 | 8° 0 | 8°29 | 12°35 | n.a. | S 23 |
| S 24 | 4 1 45 | 0♐10'27 | 22°39 | 3°15 | 6°47 | 9° 6 | 3° 1 | 26°42 | 23° 8 | 29°32 | 6°14 | 8° 0 | 8°26 | 12°41 | n.a. | S 24 |
| M25 | 4 5 41 | 1°11'42 | 4♍52 | 4°50 | 8° 0 | 9°37 | 2°54 | 26°41 | 23° 6 | 29°30 | 6°13 | 8°R 0 | 8°23 | 12°48 | n.a. | M25 |
| T 26 | 4 9 38 | 2°12'57 | 16°53 | 6°27 | 9°13 | 10° 8 | 2°48 | 26°40 | 23° 3 | 29°29 | 6°12 | 8° 0 | 8°20 | 12°55 | n.a. | T 26 |
| W27 | 4 13 34 | 3°14'12 | 28°46 | 8° 3 | 10°26 | 10°40 | 2°42 | 26°40 | 23° 1 | 29°27 | 6°11 | 8° 0 | 8°17 | 13° 1 | n.a. | W27 |
| T 28 | 4 17 31 | 4°15'28 | 10♎36 | 9°40 | 11°39 | 11°12 | 2°36 | 26°39 | 22°59 | 29°26 | 6°10 | 7°59 | 8°13 | 13° 8 | n.a. | T 28 |
| F 29 | 4 21 28 | 5°16'44 | 22°27 | 11°17 | 12°51 | 11°44 | 2°30 | 26°39 | 22°56 | 29°24 | 6° 8 | 7°59 | 8°10 | 13°15 | n.a. | F 29 |
| S 30 | 4 25 24 | 6♐18'00 | 4♏23 | 12♐54 | 14♑ 4 | 12♓16 | 2♉25 | 26♓39 | 22♊54 | 29♊23 | 6♊ 7 | 7♊58 | 8♊ 7 | 13♎21 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 13s55 | 1s43 | 4n13 | 9s51 | 0n44 | 23s29 | 1s31 | 13s44 | 1s34 | 12n30 | 1s13 | 3s34 | 2s47 | 23n49 | 0n15 | 23n 0 | 0s42 | 16n35 | 5s 9 | 21n56 | 22n 9 | 0n 1 | | n.a. |
| S 2 | 14 15 | 6 52 | 3 30 | 10 31 | 0 37 | 23 42 | 1 33 | 13 33 | 1 32 | 12 27 | 1 13 | 3 35 | 2 47 | 23 48 | 0 15 | 23 0 | 0 42 | 16 35 | 5 9 | 21 55 | 22 8 | 0s 2 | | n.a. |
| S 3 | 14 35 | 11 48 | 2 38 | 11 11 | 0 30 | 23 55 | 1 35 | 13 21 | 1 29 | 12 25 | 1 12 | 3 36 | 2 47 | 23 48 | 0 15 | 23 0 | 0 42 | 16 35 | 5 9 | 21 54 | 22 8 | 0 5 | | n.a. |
| M 4 | 14 55 | 16 21 | 1 38 | 11 51 | 0 23 | 24 7 | 1 37 | 13 9 | 1 26 | 12 22 | 1 12 | 3 37 | 2 47 | 23 48 | 0 15 | 23 0 | 0 42 | 16 34 | 5 9 | 21 54 | 22 7 | 0 8 | | n.a. |
| T 5 | 15 14 | 20 16 | 0 33 | 12 29 | 0 17 | 24 18 | 1 39 | 12 57 | 1 24 | 12 19 | 1 12 | 3 38 | 2 47 | 23 48 | 0 15 | 23 0 | 0 42 | 16 34 | 5 9 | 21 53 | 22 7 | 0 11 | | n.a. |
| W 6 | 15 33 | 23 21 | 0s35 | 13 8 | 0 10 | 24 29 | 1 40 | 12 45 | 1 21 | 12 17 | 1 12 | 3 39 | 2 46 | 23 48 | 0 15 | 23 0 | 0 42 | 16 34 | 5 9 | 21 53 | 22 6 | 0 14 | | n.a. |
| T 7 | 15 52 | 25 22 | 1 42 | 13 46 | 0 3 | 24 39 | 1 42 | 12 33 | 1 18 | 12 14 | 1 12 | 3 40 | 2 46 | 23 48 | 0 15 | 23 0 | 0 42 | 16 34 | 5 9 | 21 54 | 22 6 | 0 17 | | n.a. |
| F 8 | 16 10 | 26 6 | 2 45 | 14 23 | 0s 3 | 24 48 | 1 44 | 12 21 | 1 16 | 12 12 | 1 12 | 3 41 | 2 46 | 23 48 | 0 15 | 23 0 | 0 42 | 16 34 | 5 9 | 21 54 | 22 5 | 0 20 | | n.a. |
| S 9 | 16 29 | 25 26 | 3 41 | 15 0 | 0 10 | 24 57 | 1 45 | 12 9 | 1 13 | 12 9 | 1 12 | 3 42 | 2 46 | 23 48 | 0 15 | 23 0 | 0 42 | 16 34 | 5 9 | 21 54 | 22 5 | 0 23 | | n.a. |
| S 10 | 16 47 | 23 20 | 4 27 | 15 36 | 0 17 | 25 4 | 1 47 | 11 56 | 1 11 | 12 7 | 1 11 | 3 42 | 2 45 | 23 48 | 0 15 | 23 0 | 0 42 | 16 33 | 5 9 | 21 54 | 22 4 | 0 26 | | n.a. |
| M11 | 17 5 | 19 53 | 4 59 | 16 11 | 0 23 | 25 11 | 1 48 | 11 44 | 1 9 | 12 4 | 1 11 | 3 43 | 2 45 | 23 48 | 0 15 | 23 0 | 0 42 | 16 33 | 5 9 | 21 54 | 22 4 | 0 29 | | n.a. |
| T 12 | 17 22 | 15 15 | 5 14 | 16 46 | 0 30 | 25 18 | 1 50 | 11 31 | 1 6 | 12 2 | 1 11 | 3 44 | 2 45 | 23 48 | 0 15 | 23 0 | 0 42 | 16 33 | 5 9 | 21 54 | 22 3 | 0 32 | | n.a. |
| W13 | 17 39 | 9 40 | 5 11 | 17 20 | 0 36 | 25 23 | 1 51 | 11 18 | 1 4 | 11 59 | 1 11 | 3 44 | 2 45 | 23 48 | 0 15 | 23 0 | 0 42 | 16 33 | 5 9 | 21 54 | 22 3 | 0 35 | | n.a. |
| T 14 | 17 56 | 3 27 | 4 48 | 17 53 | 0 42 | 25 28 | 1 52 | 11 5 | 1 2 | 11 57 | 1 11 | 3 45 | 2 44 | 23 48 | 0 15 | 23 0 | 0 42 | 16 33 | 5 9 | 21 54 | 22 2 | 0 38 | | n.a. |
| F 15 | 18 12 | 3n 3 | 4 5 | 18 26 | 0 48 | 25 32 | 1 54 | 10 53 | 1 0 | 11 55 | 1 10 | 3 45 | 2 44 | 23 48 | 0 15 | 23 0 | 0 42 | 16 33 | 5 9 | 21 53 | 22 2 | 0 41 | | n.a. |
| S 16 | 18 28 | 9 27 | 3 5 | 18 57 | 0 54 | 25 35 | 1 55 | 10 40 | 0 57 | 11 52 | 1 10 | 3 46 | 2 44 | 23 47 | 0 15 | 23 0 | 0 42 | 16 32 | 5 9 | 21 53 | 22 1 | 0 44 | | n.a. |
| S 17 | 18 44 | 15 19 | 1 53 | 19 28 | 1 0 | 25 37 | 1 56 | 10 27 | 0 55 | 11 50 | 1 10 | 3 46 | 2 44 | 23 47 | 0 15 | 23 0 | 0 42 | 16 32 | 5 9 | 21 53 | 22 1 | 0 48 | | n.a. |
| M18 | 19 0 | 20 13 | 0 34 | 19 58 | 1 5 | 25 39 | 1 57 | 10 13 | 0 53 | 11 48 | 1 10 | 3 47 | 2 43 | 23 47 | 0 15 | 23 0 | 0 42 | 16 32 | 5 9 | 21 52 | 22 0 | 0 51 | | n.a. |
| T 19 | 19 15 | 23 46 | 0n46 | 20 27 | 1 11 | 25 40 | 1 58 | 10 0 | 0 51 | 11 45 | 1 10 | 3 47 | 2 43 | 23 47 | 0 15 | 23 0 | 0 42 | 16 32 | 5 9 | 21 52 | 22 0 | 0 54 | | n.a. |
| W20 | 19 29 | 25 44 | 2 1 | 20 55 | 1 16 | 25 40 | 1 58 | 9 47 | 0 49 | 11 43 | 1 9 | 3 47 | 2 43 | 23 47 | 0 15 | 23 0 | 0 42 | 16 32 | 5 9 | 21 53 | 21 59 | 0 57 | | n.a. |
| T 21 | 19 44 | 26 3 | 3 7 | 21 22 | 1 21 | 25 39 | 1 59 | 9 33 | 0 47 | 11 41 | 1 9 | 3 47 | 2 43 | 23 47 | 0 15 | 23 0 | 0 42 | 16 32 | 5 9 | 21 53 | 21 59 | 1 0 | | n.a. |
| F 22 | 19 58 | 24 51 | 4 1 | 21 47 | 1 26 | 25 37 | 2 0 | 9 20 | 0 45 | 11 39 | 1 9 | 3 48 | 2 42 | 23 47 | 0 15 | 23 0 | 0 42 | 16 31 | 5 9 | 21 53 | 21 58 | 1 3 | | n.a. |
| S 23 | 20 11 | 22 23 | 4 41 | 22 12 | 1 31 | 25 35 | 2 0 | 9 6 | 0 43 | 11 37 | 1 9 | 3 48 | 2 42 | 23 47 | 0 15 | 23 0 | 0 42 | 16 31 | 5 9 | 21 53 | 21 58 | 1 6 | | n.a. |
| S 24 | 20 25 | 18 55 | 5 6 | 22 36 | 1 36 | 25 32 | 2 1 | 8 53 | 0 41 | 11 35 | 1 8 | 3 48 | 2 42 | 23 47 | 0 15 | 23 0 | 0 42 | 16 31 | 5 9 | 21 53 | 21 57 | 1 9 | | n.a. |
| M25 | 20 38 | 14 44 | 5 17 | 22 58 | 1 40 | 25 28 | 2 1 | 8 39 | 0 39 | 11 33 | 1 8 | 3 48 | 2 42 | 23 47 | 0 15 | 23 0 | 0 42 | 16 31 | 5 9 | 21 53 | 21 57 | 1 12 | | n.a. |
| T 26 | 20 50 | 10 2 | 5 13 | 23 20 | 1 44 | 25 24 | 2 1 | 8 25 | 0 37 | 11 31 | 1 8 | 3 48 | 2 41 | 23 46 | 0 15 | 23 0 | 0 42 | 16 31 | 5 9 | 21 53 | 21 56 | 1 15 | | n.a. |
| W27 | 21 2 | 5 1 | 4 57 | 23 40 | 1 48 | 25 19 | 2 2 | 8 11 | 0 35 | 11 29 | 1 8 | 3 48 | 2 41 | 23 46 | 0 15 | 23 0 | 0 42 | 16 31 | 5 9 | 21 53 | 21 56 | 1 18 | | n.a. |
| T 28 | 21 14 | 0s 9 | 4 27 | 23 59 | 1 51 | 25 12 | 2 2 | 7 58 | 0 34 | 11 27 | 1 7 | 3 48 | 2 41 | 23 46 | 0 15 | 23 0 | 0 42 | 16 30 | 5 9 | 21 53 | 21 55 | 1 21 | | n.a. |
| F 29 | 21 25 | 5 20 | 3 47 | 24 16 | 1 54 | 25 6 | 2 2 | 7 44 | 0 32 | 11 26 | 1 7 | 3 48 | 2 40 | 23 46 | 0 15 | 23 0 | 0 42 | 16 30 | 5 9 | 21 53 | 21 55 | 1 24 | | n.a. |
| S 30 | 21s36 | 10s22 | 2n56 | 24s32 | 1s57 | 24s58 | 2s 2 | 7s30 | 0s30 | 11n24 | 1s 7 | 3s47 | 2s40 | 23n46 | 0n15 | 23n 0 | 0s42 | 16n30 | 5s 9 | 21n53 | 21n54 | 1s28 | | n.a. |

Julian Day Number = 1697986.5, Delta T = 03h07m03s
Ecliptic obliquity = 23°42'14, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°56'59, Lahiri = - 4°49'59 Julian Calendar 1 Nov. 65 BCE == Greg. Calendar 30 Oct. 065 BCE

The year -64 astronomical counting style corresponds to year 065 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 65 BCE
# geocentric

## DECEMBER 65 BCE (-64) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 4 29 21 | 7♐19'17 | 16♏26 | 14♐31 | 15♑17 | 12♓49 | 2°R19 | 26°D39 | 22°R51 | 29°R21 | 6°R 6 | 7°R58 | 8♊ 4 | 13♎28 | n.a. | S 1 |
| M 2 | 4 33 17 | 8°20'34 | 28°39 | 16° 9 | 16°29 | 13°21 | 2♉14 | 26♓39 | 22♊49 | 29♊20 | 6♊ 5 | 7°D58 | 8° 1 | 13°35 | n.a. | M 2 |
| T 3 | 4 37 14 | 9°21'51 | 11♐ 3 | 17°47 | 17°42 | 13°54 | 2° 9 | 26°39 | 22°46 | 29°18 | 6° 3 | 7°R58 | 7°58 | 13°42 | n.a. | T 3 |
| W 4 | 4 41 10 | 10°23'08 | 23°39 | 19°25 | 18°55 | 14°27 | 2° 4 | 26°39 | 22°44 | 29°17 | 6° 2 | 7♊58 | 7°54 | 13°48 | n.a. | W 4 |
| T 5 | 4 45 7 | 11°24'24 | 6♑29 | 21° 3 | 20° 7 | 15° 0 | 1°59 | 26°40 | 22°41 | 29°15 | 6° 1 | 7°58 | 7°51 | 13°55 | n.a. | T 5 |
| F 6 | 4 49 3 | 12°25'41 | 19°31 | 22°41 | 21°19 | 15°33 | 1°54 | 26°40 | 22°39 | 29°13 | 6° 0 | 7°57 | 7°48 | 14° 2 | n.a. | F 6 |
| S 7 | 4 53 0 | 13°26'57 | 2♒47 | 24°19 | 22°32 | 16° 6 | 1°50 | 26°41 | 22°36 | 29°12 | 5°59 | 7°57 | 7°45 | 14° 8 | n.a. | S 7 |
| S 8 | 4 56 57 | 14°28'12 | 16°17 | 25°57 | 23°44 | 16°39 | 1°46 | 26°41 | 22°34 | 29°10 | 5°57 | 7°56 | 7°42 | 14°15 | n.a. | S 8 |
| M 9 | 5 0 53 | 15°29'27 | 29°59 | 27°36 | 24°56 | 17°13 | 1°42 | 26°42 | 22°31 | 29° 9 | 5°56 | 7°55 | 7°39 | 14°22 | n.a. | M 9 |
| T 10 | 5 4 50 | 16°30'42 | 13♓54 | 29°13 | 26° 8 | 17°46 | 1°38 | 26°43 | 22°28 | 29° 7 | 5°55 | 7°D55 | 7°35 | 14°28 | n.a. | T 10 |
| W11 | 5 8 46 | 17°31'55 | 28° 1 | 0♑51 | 27°20 | 18°20 | 1°34 | 26°44 | 22°26 | 29° 5 | 5°54 | 7°55 | 7°32 | 14°35 | n.a. | W11 |
| T 12 | 5 12 43 | 18°33'08 | 12♈18 | 2°28 | 28°32 | 18°54 | 1°31 | 26°45 | 22°23 | 29° 4 | 5°53 | 7°56 | 7°29 | 14°42 | n.a. | T 12 |
| F 13 | 5 16 39 | 19°34'20 | 26°43 | 4° 4 | 29°44 | 19°28 | 1°27 | 26°47 | 22°21 | 29° 2 | 5°51 | 7°57 | 7°26 | 14°49 | n.a. | F 13 |
| S 14 | 5 20 36 | 20°35'32 | 11♉12 | 5°40 | 0♒56 | 20° 2 | 1°24 | 26°48 | 22°18 | 29° 0 | 5°50 | 7°58 | 7°23 | 14°55 | n.a. | S 14 |
| S 15 | 5 24 32 | 21°36'43 | 25°40 | 7°14 | 2° 7 | 20°36 | 1°21 | 26°50 | 22°16 | 28°59 | 5°49 | 7°59 | 7°19 | 15° 2 | n.a. | S 15 |
| M16 | 5 28 29 | 22°37'53 | 10♊ 3 | 8°47 | 3°19 | 21°10 | 1°19 | 26°51 | 22°13 | 28°57 | 5°48 | 7°R59 | 7°16 | 15° 9 | n.a. | M16 |
| T 17 | 5 32 26 | 23°39'02 | 24°15 | 10°18 | 4°30 | 21°45 | 1°16 | 26°53 | 22°10 | 28°55 | 5°47 | 7°58 | 7°13 | 15°15 | n.a. | T 17 |
| W18 | 5 36 22 | 24°40'11 | 8♋10 | 11°47 | 5°41 | 22°19 | 1°14 | 26°55 | 22° 8 | 28°54 | 5°46 | 7°57 | 7°10 | 15°22 | n.a. | W18 |
| T 19 | 5 40 19 | 25°41'20 | 21°47 | 13°13 | 6°53 | 22°54 | 1°12 | 26°57 | 22° 5 | 28°52 | 5°44 | 7°55 | 7° 7 | 15°29 | n.a. | T 19 |
| F 20 | 5 44 15 | 26°42'28 | 5♌ 2 | 14°36 | 8° 4 | 23°28 | 1°10 | 26°59 | 22° 3 | 28°50 | 5°43 | 7°52 | 7° 4 | 15°35 | n.a. | F 20 |
| S 21 | 5 48 12 | 27°43'35 | 17°56 | 15°55 | 9°15 | 24° 3 | 1° 8 | 27° 1 | 22° 0 | 28°49 | 5°42 | 7°49 | 7° 0 | 15°42 | n.a. | S 21 |
| S 22 | 5 52 8 | 28°44'41 | 0♍30 | 17°10 | 10°26 | 24°38 | 1° 7 | 27° 3 | 21°57 | 28°47 | 5°41 | 7°46 | 6°57 | 15°49 | n.a. | S 22 |
| M23 | 5 56 5 | 29°45'47 | 12°46 | 18°20 | 11°36 | 25°12 | 1° 6 | 27° 5 | 21°55 | 28°45 | 5°40 | 7°44 | 6°54 | 15°56 | n.a. | M23 |
| T 24 | 6 0 2 | 0♑46'53 | 24°49 | 19°24 | 12°47 | 25°47 | 1° 5 | 27° 8 | 21°52 | 28°43 | 5°39 | 7°43 | 6°51 | 16° 2 | n.a. | T 24 |
| W25 | 6 3 58 | 1°47'58 | 6♎44 | 20°21 | 13°58 | 26°22 | 1° 4 | 27°10 | 21°50 | 28°42 | 5°38 | 7°D43 | 6°48 | 16° 9 | n.a. | W25 |
| T 26 | 6 7 55 | 2°49'02 | 18°34 | 21°11 | 15° 8 | 26°58 | 1° 3 | 27°13 | 21°47 | 28°40 | 5°37 | 7°44 | 6°45 | 16°16 | n.a. | T 26 |
| F 27 | 6 11 51 | 3°50'05 | 0♏25 | 21°52 | 16°18 | 27°33 | 1° 3 | 27°16 | 21°45 | 28°38 | 5°36 | 7°45 | 6°41 | 16°22 | n.a. | F 27 |
| S 28 | 6 15 48 | 4°51'08 | 12°23 | 22°24 | 17°28 | 28° 8 | 1° 2 | 27°19 | 21°42 | 28°37 | 5°35 | 7°47 | 6°38 | 16°29 | n.a. | S 28 |
| S 29 | 6 19 44 | 5°52'10 | 24°30 | 22°46 | 18°38 | 28°43 | 1°D 2 | 27°22 | 21°40 | 28°35 | 5°34 | 7°49 | 6°35 | 16°36 | n.a. | S 29 |
| M30 | 6 23 41 | 6°53'11 | 6♐51 | 22°58 | 19°48 | 29°19 | 1° 3 | 27°25 | 21°37 | 28°33 | 5°33 | 7°R50 | 6°32 | 16°42 | n.a. | M30 |
| T 31 | 6 27 37 | 7♑54'11 | 19♐28 | 22°R58 | 20♒58 | 29♓54 | 1♉ 3 | 27♓28 | 21♊35 | 28♊32 | 5♊32 | 7♊49 | 6♊29 | 16♎49 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| S 1 | 21s46 | 15s 4 | 1n57 | 24s47 | 2s 0 | 24s50 | 2s 2 | 7s15 | 0s28 | 11n22 | 1s 7 | 3s47 | 2s40 | 23n46 | 0n15 | 23n 0 | 0s42 | 16n30 | 5s 9 | 21n53 | 21n54 | 1s31 | | | n.a. |
| M 2 | 21 56 | 19 14 | 0 52 | 25 0 | 2 2 | 24 41 | 2 1 | 7 1 | 0 27 | 11 21 | 1 6 | 3 47 | 2 40 | 23 46 | 0 15 | 23 0 | 0 42 | 16 30 | 5 8 | 21 53 | 21 53 | 1 34 | | | n.a. |
| T 3 | 22 6 | 22 38 | 0s17 | 25 12 | 2 4 | 24 31 | 2 1 | 6 47 | 0 25 | 11 19 | 1 6 | 3 47 | 2 39 | 23 46 | 0 15 | 23 0 | 0 42 | 16 30 | 5 8 | 21 53 | 21 53 | 1 37 | | | n.a. |
| W 4 | 22 15 | 24 59 | 1 26 | 25 22 | 2 5 | 24 20 | 2 0 | 6 33 | 0 23 | 11 18 | 1 6 | 3 46 | 2 39 | 23 46 | 0 15 | 23 0 | 0 42 | 16 29 | 5 8 | 21 53 | 21 52 | 1 40 | | | n.a. |
| T 5 | 22 24 | 26 4 | 2 32 | 25 30 | 2 7 | 24 9 | 2 0 | 6 18 | 0 22 | 11 16 | 1 6 | 3 46 | 2 39 | 23 45 | 0 15 | 23 0 | 0 42 | 16 29 | 5 8 | 21 53 | 21 52 | 1 43 | | | n.a. |
| F 6 | 22 32 | 25 44 | 3 31 | 25 37 | 2 7 | 23 57 | 1 59 | 6 4 | 0 20 | 11 15 | 1 5 | 3 45 | 2 38 | 23 45 | 0 15 | 23 0 | 0 42 | 16 29 | 5 8 | 21 53 | 21 51 | 1 46 | | | n.a. |
| S 7 | 22 40 | 23 57 | 4 19 | 25 42 | 2 7 | 23 45 | 1 59 | 5 50 | 0 18 | 11 14 | 1 5 | 3 45 | 2 38 | 23 45 | 0 15 | 23 0 | 0 42 | 16 29 | 5 8 | 21 53 | 21 51 | 1 49 | | | n.a. |
| S 8 | 22 47 | 20 49 | 4 55 | 25 45 | 2 7 | 23 32 | 1 58 | 5 35 | 0 17 | 11 12 | 1 5 | 3 44 | 2 38 | 23 45 | 0 15 | 23 0 | 0 42 | 16 29 | 5 8 | 21 52 | 21 50 | 1 52 | | | n.a. |
| M 9 | 22 54 | 16 29 | 5 14 | 25 47 | 2 6 | 23 18 | 1 57 | 5 20 | 0 15 | 11 11 | 1 4 | 3 44 | 2 38 | 23 45 | 0 15 | 23 0 | 0 42 | 16 29 | 5 8 | 21 52 | 21 50 | 1 55 | | | n.a. |
| T 10 | 23 1 | 11 14 | 5 15 | 25 47 | 2 5 | 23 3 | 1 56 | 5 6 | 0 14 | 11 10 | 1 4 | 3 43 | 2 37 | 23 45 | 0 16 | 23 0 | 0 42 | 16 29 | 5 8 | 21 52 | 21 49 | 1 58 | | | n.a. |
| W11 | 23 7 | 5 20 | 4 58 | 25 45 | 2 3 | 22 48 | 1 55 | 4 51 | 0 12 | 11 9 | 1 4 | 3 42 | 2 37 | 23 45 | 0 16 | 23 0 | 0 42 | 16 29 | 5 8 | 21 52 | 21 48 | 2 2 | | | n.a. |
| T 12 | 23 12 | 0n54 | 4 22 | 25 41 | 2 0 | 22 32 | 1 54 | 4 36 | 0 11 | 11 8 | 1 4 | 3 42 | 2 37 | 23 44 | 0 16 | 23 0 | 0 42 | 16 28 | 5 8 | 21 52 | 21 48 | 2 5 | | | n.a. |
| F 13 | 23 17 | 7 10 | 3 29 | 25 35 | 1 57 | 22 15 | 1 52 | 4 22 | 0 10 | 11 7 | 1 3 | 3 41 | 2 36 | 23 44 | 0 16 | 23 0 | 0 42 | 16 28 | 5 8 | 21 53 | 21 47 | 2 8 | | | n.a. |
| S 14 | 23 22 | 13 6 | 2 23 | 25 27 | 1 53 | 21 58 | 1 51 | 4 7 | 0 8 | 11 6 | 1 3 | 3 40 | 2 36 | 23 44 | 0 16 | 23 0 | 0 42 | 16 28 | 5 8 | 21 53 | 21 47 | 2 11 | | | n.a. |
| S 15 | 23 26 | 18 18 | 1 8 | 25 18 | 1 48 | 21 41 | 1 49 | 3 52 | 0 7 | 11 6 | 1 3 | 3 39 | 2 36 | 23 44 | 0 16 | 23 0 | 0 42 | 16 28 | 5 8 | 21 53 | 21 46 | 2 14 | | | n.a. |
| M16 | 23 30 | 22 23 | 0n11 | 25 7 | 1 42 | 21 22 | 1 48 | 3 37 | 0 5 | 11 5 | 1 2 | 3 38 | 2 36 | 23 44 | 0 16 | 23 0 | 0 42 | 16 28 | 5 7 | 21 53 | 21 46 | 2 17 | | | n.a. |
| T 17 | 23 33 | 25 3 | 1 29 | 24 54 | 1 36 | 21 4 | 1 46 | 3 22 | 0 4 | 11 4 | 1 2 | 3 37 | 2 35 | 23 44 | 0 16 | 23 0 | 0 42 | 16 28 | 5 7 | 21 53 | 21 45 | 2 20 | | | n.a. |
| W18 | 23 36 | 26 6 | 2 39 | 24 39 | 1 29 | 20 44 | 1 44 | 3 7 | 0 3 | 11 4 | 1 2 | 3 36 | 2 35 | 23 44 | 0 16 | 23 0 | 0 42 | 16 28 | 5 7 | 21 53 | 21 45 | 2 23 | | | n.a. |
| T 19 | 23 38 | 25 31 | 3 39 | 24 23 | 1 21 | 20 24 | 1 42 | 2 52 | 0 1 | 11 4 | 1 2 | 3 35 | 2 35 | 23 43 | 0 16 | 23 0 | 0 42 | 16 28 | 5 7 | 21 52 | 21 44 | 2 26 | | | n.a. |
| F 20 | 23 40 | 23 30 | 4 25 | 24 5 | 1 12 | 20 4 | 1 40 | 2 37 | 0 0 | 11 3 | 1 1 | 3 34 | 2 34 | 23 43 | 0 16 | 23 0 | 0 42 | 16 28 | 5 7 | 21 52 | 21 44 | 2 29 | | | n.a. |
| S 21 | 23 41 | 20 19 | 4 56 | 23 46 | 1 2 | 19 43 | 1 38 | 2 22 | 0n 1 | 11 3 | 1 1 | 3 33 | 2 34 | 23 43 | 0 16 | 23 0 | 0 42 | 16 27 | 5 7 | 21 51 | 21 43 | 2 32 | | | n.a. |
| S 22 | 23 42 | 16 17 | 5 12 | 23 25 | 0 50 | 19 21 | 1 36 | 2 7 | 0 2 | 11 3 | 1 1 | 3 32 | 2 34 | 23 43 | 0 16 | 23 0 | 0 42 | 16 27 | 5 7 | 21 51 | 21 43 | 2 36 | | | n.a. |
| M23 | 23 42 | 11 39 | 5 14 | 23 4 | 0 38 | 18 59 | 1 33 | 1 52 | 0 4 | 11 2 | 1 0 | 3 31 | 2 34 | 23 43 | 0 16 | 23 0 | 0 42 | 16 27 | 5 7 | 21 50 | 21 42 | 2 39 | | | n.a. |
| T 24 | 23 42 | 6 41 | 5 1 | 22 42 | 0 25 | 18 37 | 1 31 | 1 37 | 0 5 | 11 2 | 1 0 | 3 30 | 2 33 | 23 43 | 0 16 | 23 0 | 0 42 | 16 27 | 5 7 | 21 50 | 21 42 | 2 42 | | | n.a. |
| W25 | 23 41 | 1 31 | 4 36 | 22 20 | 0 11 | 18 14 | 1 28 | 1 22 | 0 6 | 11 2 | 1 0 | 3 28 | 2 33 | 23 43 | 0 16 | 23 0 | 0 42 | 16 27 | 5 7 | 21 50 | 21 41 | 2 45 | | | n.a. |
| T 26 | 23 40 | 3s41 | 3 59 | 21 57 | 0n 4 | 17 50 | 1 26 | 1 7 | 0 7 | 11 2 | 0 59 | 3 27 | 2 33 | 23 42 | 0 16 | 23 0 | 0 42 | 16 27 | 5 6 | 21 50 | 21 40 | 2 48 | | | n.a. |
| F 27 | 23 39 | 8 46 | 3 11 | 21 35 | 0 20 | 17 27 | 1 23 | 0 52 | 0 8 | 11 2 | 0 59 | 3 26 | 2 32 | 23 42 | 0 16 | 23 0 | 0 42 | 16 27 | 5 6 | 21 51 | 21 40 | 2 51 | | | n.a. |
| S 28 | 23 37 | 13 35 | 2 15 | 21 13 | 0 36 | 17 2 | 1 20 | 0 36 | 0 9 | 11 3 | 0 59 | 3 24 | 2 32 | 23 42 | 0 16 | 23 0 | 0 42 | 16 27 | 5 6 | 21 51 | 21 39 | 2 54 | | | n.a. |
| S 29 | 23 34 | 17 56 | 1 13 | 20 52 | 0 54 | 16 38 | 1 17 | 0 21 | 0 11 | 11 3 | 0 59 | 3 23 | 2 32 | 23 42 | 0 16 | 23 0 | 0 42 | 16 27 | 5 6 | 21 51 | 21 39 | 2 57 | | | n.a. |
| M30 | 23 31 | 21 36 | 0 5 | 20 33 | 1 12 | 16 13 | 1 14 | 0 6 | 0 12 | 11 3 | 0 58 | 3 21 | 2 32 | 23 42 | 0 16 | 23 0 | 0 42 | 16 27 | 5 6 | 21 51 | 21 38 | 3 0 | | | n.a. |
| T 31 | 23s28 | 24s20 | 1s 3 | 20s15 | 1n30 | 15s47 | 1s11 | 0n 9 | 0n13 | 11n 4 | 0s58 | 3s20 | 2s31 | 23n42 | 0n16 | 23n 0 | 0s42 | 16n27 | 5s 6 | 21n51 | 21n38 | 3s 3 | | | n.a. |

Julian Day Number = 1698016.5, Delta T = 03h07m02s
Ecliptic obliquity = 23°42'13, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°56'55, Lahiri = - 4°49'55 Julian Calendar 1 Dec. 65 BCE == Greg. Calendar 29 Nov. 065 BCE

The year -64 astronomical counting style corresponds to year 065 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 64 BCE
# geocentric

## JANUARY 64 BCE (-63) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 6 31 34 | 8♉55'10 | 2♉23 | 22°R47 | 22♒ 8 | 0♈30 | 1♉ 4 | 27♓31 | 21°R32 | 28°R30 | 5°R31 | 7°R47 | 6♊25 | 16♎56 | n.a. | W 1 |
| T 2 | 6 35 31 | 9°56'08 | 15°36 | 22♉25 | 23°17 | 1° 5 | 1° 4 | 27°35 | 21♊30 | 28♊28 | 5♊30 | 7♊43 | 6°22 | 17° 2 | n.a. | T 2 |
| F 3 | 6 39 27 | 10°57'05 | 29° 5 | 21°52 | 24°27 | 1°41 | 1° 5 | 27°38 | 21°27 | 28°27 | 5°29 | 7°38 | 6°19 | 17° 9 | n.a. | F 3 |
| S 4 | 6 43 24 | 11°58'00 | 12♒48 | 21° 9 | 25°36 | 2°17 | 1° 6 | 27°42 | 21°25 | 28°25 | 5°28 | 7°32 | 6°16 | 17°16 | n.a. | S 4 |
| S 5 | 6 47 20 | 12°58'54 | 26°42 | 20°17 | 26°45 | 2°53 | 1° 8 | 27°46 | 21°22 | 28°23 | 5°27 | 7°26 | 6°13 | 17°23 | n.a. | S 5 |
| M 6 | 6 51 17 | 13°59'47 | 10♓45 | 19°17 | 27°53 | 3°28 | 1° 9 | 27°49 | 21°20 | 28°22 | 5°26 | 7°22 | 6°10 | 17°29 | n.a. | M 6 |
| T 7 | 6 55 13 | 15° 0'37 | 24°51 | 18°11 | 29° 2 | 4° 4 | 1°11 | 27°53 | 21°18 | 28°20 | 5°25 | 7°18 | 6° 6 | 17°36 | n.a. | T 7 |
| W 8 | 6 59 10 | 16° 1'26 | 9♈ 0 | 17° 1 | 0♓11 | 4°40 | 1°13 | 27°57 | 21°15 | 28°18 | 5°24 | 7°16 | 6° 3 | 17°43 | n.a. | W 8 |
| T 9 | 7 3 6 | 17° 2'14 | 23° 9 | 15°49 | 1°19 | 5°16 | 1°16 | 28° 1 | 21°13 | 28°17 | 5°23 | 7°D16 | 6° 0 | 17°49 | n.a. | T 9 |
| F 10 | 7 7 3 | 18° 3'00 | 7♉16 | 14°37 | 2°27 | 5°52 | 1°18 | 28° 5 | 21°11 | 28°15 | 5°22 | 7°17 | 5°57 | 17°56 | n.a. | F 10 |
| S 11 | 7 11 0 | 19° 3'44 | 21°20 | 13°28 | 3°35 | 6°28 | 1°20 | 28°10 | 21° 9 | 28°14 | 5°21 | 7°19 | 5°54 | 18° 3 | n.a. | S 11 |
| S 12 | 7 14 56 | 20° 4'26 | 5♊20 | 12°21 | 4°42 | 7° 5 | 1°23 | 28°14 | 21° 7 | 28°12 | 5°21 | 7°R20 | 5°51 | 18° 9 | n.a. | S 12 |
| M13 | 7 18 53 | 21° 5'07 | 19°13 | 11°20 | 5°50 | 7°41 | 1°26 | 28°18 | 21° 4 | 28°11 | 5°20 | 7°19 | 5°47 | 18°16 | n.a. | M13 |
| T 14 | 7 22 49 | 22° 5'46 | 2♋58 | 10°25 | 6°57 | 8°17 | 1°29 | 28°23 | 21° 2 | 28° 9 | 5°19 | 7°16 | 5°44 | 18°23 | n.a. | T 14 |
| W15 | 7 26 46 | 23° 6'23 | 16°32 | 9°37 | 8° 4 | 8°53 | 1°33 | 28°27 | 21° 0 | 28° 8 | 5°18 | 7°11 | 5°41 | 18°29 | n.a. | W15 |
| T 16 | 7 30 42 | 24° 6'59 | 29°52 | 8°56 | 9°11 | 9°30 | 1°36 | 28°32 | 20°58 | 28° 6 | 5°17 | 7° 4 | 5°38 | 18°36 | n.a. | T 16 |
| F 17 | 7 34 39 | 25° 7'33 | 12♌57 | 8°24 | 10°17 | 10° 6 | 1°40 | 28°37 | 20°56 | 28° 5 | 5°17 | 6°56 | 5°35 | 18°43 | n.a. | F 17 |
| S 18 | 7 38 36 | 26° 8'05 | 25°45 | 7°59 | 11°24 | 10°42 | 1°44 | 28°42 | 20°54 | 28° 3 | 5°16 | 6°47 | 5°31 | 18°49 | n.a. | S 18 |
| S 19 | 7 42 32 | 27° 8'36 | 8♍16 | 7°41 | 12°30 | 11°19 | 1°48 | 28°47 | 20°52 | 28° 2 | 5°15 | 6°38 | 5°28 | 18°56 | n.a. | S 19 |
| M20 | 7 46 29 | 28° 9'05 | 20°33 | 7°32 | 13°36 | 11°55 | 1°52 | 28°52 | 20°50 | 28° 0 | 5°15 | 6°30 | 5°25 | 19° 3 | n.a. | M20 |
| T 21 | 7 50 25 | 29° 9'33 | 2♎36 | 7°D29 | 14°41 | 12°32 | 1°57 | 28°57 | 20°48 | 27°59 | 5°14 | 6°24 | 5°22 | 19°10 | n.a. | T 21 |
| W22 | 7 54 22 | 0♒ 9'59 | 14°31 | 7°34 | 15°46 | 13° 8 | 2° 2 | 29° 2 | 20°46 | 27°57 | 5°13 | 6°20 | 5°19 | 19°16 | n.a. | W22 |
| T 23 | 7 58 18 | 1°10'24 | 26°21 | 7°44 | 16°51 | 13°45 | 2° 6 | 29° 7 | 20°45 | 27°56 | 5°13 | 6°D19 | 5°16 | 19°23 | n.a. | T 23 |
| F 24 | 8 2 15 | 2°10'48 | 8♏12 | 8° 1 | 17°56 | 14°21 | 2°11 | 29°12 | 20°43 | 27°55 | 5°12 | 6°19 | 5°12 | 19°30 | n.a. | F 24 |
| S 25 | 8 6 11 | 3°11'10 | 20° 8 | 8°24 | 19° 0 | 14°58 | 2°17 | 29°18 | 20°41 | 27°53 | 5°12 | 6°20 | 5° 9 | 19°36 | n.a. | S 25 |
| S 26 | 8 10 8 | 4°11'30 | 2♐16 | 8°52 | 20° 5 | 15°35 | 2°22 | 29°23 | 20°39 | 27°52 | 5°11 | 6°R20 | 5° 6 | 19°43 | n.a. | S 26 |
| M27 | 8 14 5 | 5°11'49 | 14°40 | 9°24 | 21° 8 | 16°11 | 2°27 | 29°29 | 20°38 | 27°51 | 5°10 | 6°20 | 5° 3 | 19°50 | n.a. | M27 |
| T 28 | 8 18 1 | 6°12'06 | 27°24 | 10° 2 | 22°12 | 16°48 | 2°33 | 29°34 | 20°36 | 27°50 | 5°10 | 6°18 | 5° 0 | 19°56 | n.a. | T 28 |
| W29 | 8 21 58 | 7°12'21 | 10♑31 | 10°43 | 23°15 | 17°25 | 2°39 | 29°40 | 20°35 | 27°48 | 5° 9 | 6°13 | 4°57 | 20° 3 | n.a. | W29 |
| T 30 | 8 25 54 | 8°12'35 | 24° 2 | 11°28 | 24°18 | 18° 2 | 2°45 | 29°46 | 20°33 | 27°47 | 5° 9 | 6° 6 | 4°53 | 20°10 | n.a. | T 30 |
| F 31 | 8 29 51 | 9♒12'47 | 7♒54 | 12♑17 | 25♓20 | 18♈38 | 2♉51 | 29♓52 | 20♊32 | 27♊46 | 5♊ 9 | 5♊57 | 4♊50 | 20♎16 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 23s24 | 25s51 | 2s10 | 19s59 | 1n48 | 15s21 | 1s 8 | 0n25 | 0n14 | 11n 4 | 0s58 | 3s18 | 2s31 | 23n41 | 0n16 | 23n 0 | 0s42 | 16n27 | 5s 6 | 21n51 | 21n37 | 3s 7 | | n.a. |
| T 2 | 23 20 | 25 57 | 3 12 | 19 44 | 2 6 | 14 55 | 1 5 | 0 40 | 0 15 | 11 5 | 0 57 | 3 16 | 2 31 | 23 41 | 0 16 | 23 0 | 0 42 | 16 27 | 5 6 | 21 50 | 21 37 | 3 10 | | n.a. |
| F 3 | 23 15 | 24 32 | 4 4 | 19 33 | 2 24 | 14 29 | 1 1 | 0 55 | 0 16 | 11 5 | 0 57 | 3 15 | 2 31 | 23 41 | 0 16 | 23 0 | 0 42 | 16 26 | 5 6 | 21 49 | 21 36 | 3 13 | | n.a. |
| S 4 | 23 9 | 21 40 | 4 43 | 19 23 | 2 40 | 14 2 | 0 58 | 1 10 | 0 17 | 11 6 | 0 57 | 3 13 | 2 30 | 23 41 | 0 16 | 23 0 | 0 42 | 16 26 | 5 5 | 21 48 | 21 36 | 3 16 | | n.a. |
| S 5 | 23 4 | 17 31 | 5 5 | 19 16 | 2 55 | 13 35 | 0 54 | 1 26 | 0 18 | 11 7 | 0 57 | 3 11 | 2 30 | 23 41 | 0 16 | 23 0 | 0 42 | 16 26 | 5 5 | 21 48 | 21 35 | 3 19 | | n.a. |
| M 6 | 22 58 | 12 23 | 5 10 | 19 11 | 3 9 | 13 7 | 0 50 | 1 41 | 0 19 | 11 8 | 0 56 | 3 10 | 2 30 | 23 41 | 0 16 | 23 0 | 0 42 | 16 26 | 5 5 | 21 47 | 21 34 | 3 22 | | n.a. |
| T 7 | 22 51 | 6 35 | 4 56 | 19 8 | 3 21 | 12 40 | 0 46 | 1 56 | 0 20 | 11 9 | 0 56 | 3 8 | 2 30 | 23 41 | 0 16 | 23 0 | 0 42 | 16 26 | 5 5 | 21 46 | 21 34 | 3 25 | | n.a. |
| W 8 | 22 44 | 0 26 | 4 25 | 19 8 | 3 30 | 12 12 | 0 42 | 2 12 | 0 21 | 11 10 | 0 56 | 3 6 | 2 29 | 23 40 | 0 16 | 23 0 | 0 42 | 16 26 | 5 5 | 21 46 | 21 33 | 3 28 | | n.a. |
| T 9 | 22 36 | 5n44 | 3 37 | 19 9 | 3 37 | 11 43 | 0 38 | 2 27 | 0 22 | 11 11 | 0 55 | 3 4 | 2 29 | 23 40 | 0 16 | 23 0 | 0 42 | 16 26 | 5 5 | 21 46 | 21 33 | 3 31 | | n.a. |
| F 10 | 22 28 | 11 38 | 2 36 | 19 13 | 3 42 | 11 15 | 0 34 | 2 42 | 0 23 | 11 12 | 0 55 | 3 2 | 2 29 | 23 40 | 0 16 | 23 0 | 0 42 | 16 26 | 5 5 | 21 46 | 21 32 | 3 34 | | n.a. |
| S 11 | 22 20 | 16 55 | 1 26 | 19 18 | 3 45 | 10 46 | 0 30 | 2 58 | 0 24 | 11 13 | 0 55 | 3 0 | 2 29 | 23 40 | 0 16 | 23 0 | 0 42 | 16 26 | 5 4 | 21 46 | 21 32 | 3 38 | | n.a. |
| S 12 | 22 11 | 21 15 | 0 11 | 19 24 | 3 45 | 10 17 | 0 26 | 3 13 | 0 25 | 11 14 | 0 54 | 2 58 | 2 28 | 23 40 | 0 16 | 23 0 | 0 42 | 16 26 | 5 4 | 21 46 | 21 31 | 3 41 | | n.a. |
| M13 | 22 2 | 24 19 | 1n 4 | 19 31 | 3 43 | 9 48 | 0 22 | 3 28 | 0 25 | 11 15 | 0 54 | 2 56 | 2 28 | 23 40 | 0 16 | 23 0 | 0 42 | 16 26 | 5 4 | 21 46 | 21 31 | 3 44 | | n.a. |
| T 14 | 21 52 | 25 54 | 2 14 | 19 40 | 3 39 | 9 19 | 0 17 | 3 43 | 0 26 | 11 17 | 0 54 | 2 54 | 2 28 | 23 40 | 0 16 | 23 0 | 0 42 | 16 26 | 5 4 | 21 46 | 21 30 | 3 47 | | n.a. |
| W15 | 21 42 | 25 54 | 3 16 | 19 49 | 3 33 | 8 50 | 0 13 | 3 59 | 0 27 | 11 18 | 0 54 | 2 52 | 2 28 | 23 39 | 0 16 | 23 0 | 0 42 | 16 26 | 5 4 | 21 45 | 21 29 | 3 50 | | n.a. |
| T 16 | 21 32 | 24 23 | 4 5 | 19 59 | 3 25 | 8 20 | 0 8 | 4 14 | 0 28 | 11 20 | 0 53 | 2 50 | 2 27 | 23 39 | 0 16 | 23 0 | 0 42 | 16 26 | 5 4 | 21 44 | 21 29 | 3 53 | | n.a. |
| F 17 | 21 21 | 21 35 | 4 41 | 20 9 | 3 17 | 7 50 | 0 3 | 4 29 | 0 29 | 11 21 | 0 53 | 2 48 | 2 27 | 23 39 | 0 16 | 23 0 | 0 42 | 16 26 | 5 4 | 21 42 | 21 28 | 3 56 | | n.a. |
| S 18 | 21 9 | 17 47 | 5 1 | 20 21 | 3 7 | 7 21 | 0n 2 | 4 44 | 0 30 | 11 23 | 0 53 | 2 46 | 2 27 | 23 39 | 0 16 | 23 0 | 0 42 | 16 26 | 5 3 | 21 41 | 21 28 | 3 59 | | n.a. |
| S 19 | 20 58 | 13 17 | 5 7 | 20 32 | 2 57 | 6 51 | 0 7 | 4 59 | 0 30 | 11 25 | 0 53 | 2 44 | 2 27 | 23 39 | 0 16 | 23 0 | 0 42 | 16 26 | 5 3 | 21 39 | 21 27 | 4 2 | | n.a. |
| M20 | 20 46 | 8 20 | 4 58 | 20 43 | 2 46 | 6 21 | 0 11 | 5 15 | 0 31 | 11 26 | 0 52 | 2 42 | 2 26 | 23 39 | 0 16 | 23 0 | 0 42 | 16 26 | 5 3 | 21 38 | 21 27 | 4 6 | | n.a. |
| T 21 | 20 33 | 3 10 | 4 36 | 20 55 | 2 35 | 5 51 | 0 17 | 5 30 | 0 32 | 11 28 | 0 52 | 2 39 | 2 26 | 23 39 | 0 16 | 23 0 | 0 42 | 16 26 | 5 3 | 21 37 | 21 26 | 4 9 | | n.a. |
| W22 | 20 20 | 2s 4 | 4 2 | 21 7 | 2 23 | 5 20 | 0 22 | 5 45 | 0 33 | 11 30 | 0 52 | 2 37 | 2 26 | 23 38 | 0 16 | 23 0 | 0 42 | 16 26 | 5 3 | 21 36 | 21 25 | 4 12 | | n.a. |
| T 23 | 20 7 | 7 13 | 3 18 | 21 18 | 2 11 | 4 50 | 0 27 | 6 0 | 0 34 | 11 32 | 0 51 | 2 35 | 2 26 | 23 38 | 0 16 | 23 0 | 0 42 | 16 26 | 5 3 | 21 36 | 21 25 | 4 15 | | n.a. |
| F 24 | 19 54 | 12 6 | 2 25 | 21 29 | 1 59 | 4 20 | 0 32 | 6 15 | 0 34 | 11 34 | 0 51 | 2 32 | 2 26 | 23 38 | 0 16 | 23 0 | 0 42 | 16 27 | 5 3 | 21 36 | 21 24 | 4 18 | | n.a. |
| S 25 | 19 40 | 16 36 | 1 26 | 21 40 | 1 47 | 3 49 | 0 37 | 6 30 | 0 35 | 11 36 | 0 51 | 2 30 | 2 25 | 23 38 | 0 16 | 23 0 | 0 42 | 16 27 | 5 2 | 21 36 | 21 24 | 4 21 | | n.a. |
| S 26 | 19 25 | 20 29 | 0 22 | 21 50 | 1 34 | 3 19 | 0 43 | 6 45 | 0 36 | 11 38 | 0 51 | 2 28 | 2 25 | 23 38 | 0 16 | 23 0 | 0 42 | 16 27 | 5 2 | 21 36 | 21 23 | 4 24 | | n.a. |
| M27 | 19 11 | 23 33 | 0s44 | 22 0 | 1 22 | 2 49 | 0 48 | 7 0 | 0 37 | 11 40 | 0 50 | 2 25 | 2 25 | 23 38 | 0 16 | 23 0 | 0 42 | 16 27 | 5 2 | 21 36 | 21 23 | 4 27 | | n.a. |
| T 28 | 18 56 | 25 31 | 1 50 | 22 9 | 1 11 | 2 18 | 0 54 | 7 15 | 0 37 | 11 43 | 0 50 | 2 23 | 2 25 | 23 38 | 0 16 | 23 0 | 0 42 | 16 27 | 5 2 | 21 36 | 21 22 | 4 30 | | n.a. |
| W29 | 18 40 | 26 8 | 2 52 | 22 17 | 0 59 | 1 48 | 0 59 | 7 30 | 0 38 | 11 45 | 0 50 | 2 20 | 2 25 | 23 38 | 0 16 | 23 0 | 0 42 | 16 27 | 5 2 | 21 35 | 21 21 | 4 34 | | n.a. |
| T 30 | 18 25 | 25 15 | 3 46 | 22 25 | 0 48 | 1 18 | 1 5 | 7 44 | 0 39 | 11 47 | 0 50 | 2 18 | 2 24 | 23 37 | 0 16 | 23 0 | 0 42 | 16 27 | 5 2 | 21 34 | 21 21 | 4 37 | | n.a. |
| F 31 | 18s 9 | 22s48 | 4s28 | 22s32 | 0n36 | 0s47 | 1n11 | 7n59 | 0n39 | 11n49 | 0s49 | 2s15 | 2s24 | 23n37 | 0n16 | 23n 0 | 0s41 | 16n27 | 5s 1 | 21n32 | 21n20 | 4s40 | | n.a. |

Julian Day Number = 1698047.5, Delta T = 03h07m01s
Ecliptic obliquity = 23°42'13, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°56'51, Lahiri = - 4°49'51 Julian Calendar 1 Jan. 64 BCE == Greg. Calendar 30 Dec. 065 BCE

The year -63 astronomical counting style corresponds to year 064 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 64 BCE
# geocentric

## FEBRUARY 64 BCE (-63) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 33 47 | 10♒12'57 | 22♒ 5 | 13♉ 9 | 26♓22 | 19♈15 | 2♉57 | 29♓57 | 20°R30 | 27°R45 | 5°R 8 | 5°R46 | 4♊47 | 20♎23 | n.a. | S 1 |
| S 2 | 8 37 44 | 11°13'05 | 6♓28 | 14° 4 | 27°24 | 19°52 | 3° 4 | 0♈ 3 | 20♊29 | 27♊44 | 5♊ 8 | 5♊36 | 4°44 | 20°30 | n.a. | S 2 |
| M 3 | 8 41 40 | 12°13'10 | 20°58 | 15° 2 | 28°26 | 20°29 | 3°11 | 0° 9 | 20°27 | 27°43 | 5° 7 | 5°26 | 4°41 | 20°36 | n.a. | M 3 |
| T 4 | 8 45 37 | 13°13'14 | 5♈28 | 16° 3 | 29°27 | 21° 6 | 3°17 | 0°15 | 20°26 | 27°41 | 5° 7 | 5°19 | 4°37 | 20°43 | n.a. | T 4 |
| W 5 | 8 49 33 | 14°13'15 | 19°52 | 17° 7 | 0♈27 | 21°43 | 3°24 | 0°22 | 20°25 | 27°40 | 5° 7 | 5°14 | 4°34 | 20°50 | n.a. | W 5 |
| T 6 | 8 53 30 | 15°13'14 | 4♉ 7 | 18°12 | 1°27 | 22°20 | 3°31 | 0°28 | 20°24 | 27°39 | 5° 6 | 5°12 | 4°31 | 20°57 | n.a. | T 6 |
| F 7 | 8 57 27 | 16°13'11 | 18°11 | 19°20 | 2°27 | 22°57 | 3°39 | 0°34 | 20°23 | 27°38 | 5° 6 | 5°D11 | 4°28 | 21° 3 | n.a. | F 7 |
| S 8 | 9 1 23 | 17°13'05 | 2♊ 4 | 20°30 | 3°26 | 23°34 | 3°46 | 0°40 | 20°21 | 27°37 | 5° 6 | 5°R12 | 4°25 | 21°10 | n.a. | S 8 |
| S 9 | 9 5 20 | 18°12'57 | 15°45 | 21°42 | 4°25 | 24°11 | 3°54 | 0°47 | 20°20 | 27°36 | 5° 5 | 5°11 | 4°22 | 21°17 | n.a. | S 9 |
| M10 | 9 9 16 | 19°12'47 | 29°15 | 22°56 | 5°23 | 24°48 | 4° 1 | 0°53 | 20°19 | 27°35 | 5° 5 | 5° 9 | 4°18 | 21°23 | n.a. | M10 |
| T 11 | 9 13 13 | 20°12'35 | 12♋35 | 24°12 | 6°21 | 25°25 | 4° 9 | 1° 0 | 20°18 | 27°35 | 5° 5 | 5° 4 | 4°15 | 21°30 | n.a. | T 11 |
| W12 | 9 17 9 | 21°12'20 | 25°44 | 25°29 | 7°18 | 26° 2 | 4°17 | 1° 6 | 20°18 | 27°34 | 5° 5 | 4°57 | 4°12 | 21°37 | n.a. | W12 |
| T 13 | 9 21 6 | 22°12'03 | 8♌42 | 26°49 | 8°15 | 26°39 | 4°25 | 1°13 | 20°17 | 27°33 | 5° 5 | 4°46 | 4° 9 | 21°43 | n.a. | T 13 |
| F 14 | 9 25 2 | 23°11'43 | 21°29 | 28° 9 | 9°11 | 27°16 | 4°34 | 1°19 | 20°16 | 27°32 | 5° 5 | 4°34 | 4° 6 | 21°50 | n.a. | F 14 |
| S 15 | 9 28 59 | 24°11'22 | 4♍ 4 | 29°32 | 10° 7 | 27°53 | 4°42 | 1°26 | 20°15 | 27°31 | 5° 4 | 4°20 | 4° 3 | 21°57 | n.a. | S 15 |
| S 16 | 9 32 56 | 25°10'59 | 16°26 | 0♒56 | 11° 2 | 28°30 | 4°51 | 1°33 | 20°14 | 27°30 | 5° 4 | 4° 7 | 3°59 | 22° 3 | n.a. | S 16 |
| M17 | 9 36 52 | 26°10'33 | 28°36 | 2°21 | 11°56 | 29° 7 | 4°59 | 1°40 | 20°14 | 27°30 | 5° 4 | 3°54 | 3°56 | 22°10 | n.a. | M17 |
| T 18 | 9 40 49 | 27°10'06 | 10♎36 | 3°48 | 12°50 | 29°44 | 5° 8 | 1°46 | 20°13 | 27°29 | 5° 4 | 3°45 | 3°53 | 22°17 | n.a. | T 18 |
| W19 | 9 44 45 | 28° 9'36 | 22°29 | 5°16 | 13°43 | 0♉21 | 5°17 | 1°53 | 20°13 | 27°28 | 5° 4 | 3°38 | 3°50 | 22°23 | n.a. | W19 |
| T 20 | 9 48 42 | 29° 9'05 | 4♏18 | 6°46 | 14°35 | 0°58 | 5°26 | 2° 0 | 20°12 | 27°28 | 5°D 4 | 3°33 | 3°47 | 22°30 | n.a. | T 20 |
| F 21 | 9 52 38 | 0♓ 8'32 | 16° 8 | 8°17 | 15°27 | 1°36 | 5°35 | 2° 7 | 20°12 | 27°27 | 5° 4 | 3°31 | 3°43 | 22°37 | n.a. | F 21 |
| S 22 | 9 56 35 | 1° 7'57 | 28° 3 | 9°49 | 16°18 | 2°13 | 5°44 | 2°14 | 20°11 | 27°27 | 5° 4 | 3°31 | 3°40 | 22°43 | n.a. | S 22 |
| S 23 | 10 0 31 | 2° 7'20 | 10♐ 9 | 11°23 | 17° 8 | 2°50 | 5°54 | 2°21 | 20°11 | 27°26 | 5° 4 | 3°31 | 3°37 | 22°50 | n.a. | S 23 |
| M24 | 10 4 28 | 3° 6'41 | 22°31 | 12°58 | 17°57 | 3°27 | 6° 3 | 2°28 | 20°11 | 27°25 | 5° 4 | 3°30 | 3°34 | 22°57 | n.a. | M24 |
| T 25 | 10 8 25 | 4° 6'00 | 5♑16 | 14°35 | 18°46 | 4° 4 | 6°13 | 2°35 | 20°11 | 27°25 | 5° 5 | 3°27 | 3°31 | 23° 3 | n.a. | T 25 |
| W26 | 10 12 21 | 5° 5'18 | 18°25 | 16°13 | 19°34 | 4°41 | 6°23 | 2°43 | 20°10 | 27°25 | 5° 5 | 3°22 | 3°28 | 23°10 | n.a. | W26 |
| T 27 | 10 16 18 | 6° 4'34 | 2♒ 3 | 17°52 | 20°20 | 5°19 | 6°32 | 2°50 | 20°10 | 27°24 | 5° 5 | 3°15 | 3°24 | 23°17 | n.a. | T 27 |
| F 28 | 10 20 14 | 7♓ 3'47 | 16♒ 7 | 19♒33 | 21♈ 6 | 5♉56 | 6♉42 | 2♈57 | 20♊10 | 27♊24 | 5♊ 5 | 3♊ 5 | 3♊21 | 23♎23 | n.a. | F 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 17s53 | 18s56 | 4s54 | 22s37 | 0n25 | 0s17 | 1n17 | 8n14 | 0n40 | 11n52 | 0s49 | 2s13 | 2s24 | 23n37 | 0n16 | 23n 0 | 0s41 | 16n27 | 5s 1 | 21n30 | 21n20 | 4s43 | | n.a. |
| S 2 | 17 36 | 13 55 | 5 3 | 22 42 | 0 15 | 0n13 | 1 23 | 8 29 | 0 41 | 11 54 | 0 49 | 2 10 | 2 24 | 23 37 | 0 16 | 23 0 | 0 41 | 16 27 | 5 1 | 21 28 | 21 19 | 4 46 | | n.a. |
| M 3 | 17 19 | 8 5 | 4 52 | 22 46 | 0 5 | 0 43 | 1 28 | 8 43 | 0 41 | 11 57 | 0 49 | 2 8 | 2 24 | 23 37 | 0 16 | 23 0 | 0 41 | 16 27 | 5 1 | 21 27 | 21 18 | 4 49 | | n.a. |
| T 4 | 17 2 | 1 49 | 4 22 | 22 49 | 0s 5 | 1 13 | 1 34 | 8 58 | 0 42 | 12 0 | 0 48 | 2 5 | 2 23 | 23 37 | 0 16 | 23 0 | 0 41 | 16 27 | 5 1 | 21 25 | 21 18 | 4 52 | | n.a. |
| W 5 | 16 45 | 4n31 | 3 36 | 22 51 | 0 15 | 1 43 | 1 40 | 9 12 | 0 42 | 12 2 | 0 48 | 2 2 | 2 23 | 23 37 | 0 16 | 23 0 | 0 41 | 16 27 | 5 1 | 21 25 | 21 17 | 4 55 | | n.a. |
| T 6 | 16 27 | 10 34 | 2 37 | 22 51 | 0 25 | 2 13 | 1 47 | 9 27 | 0 43 | 12 5 | 0 48 | 2 0 | 2 23 | 23 37 | 0 16 | 23 0 | 0 41 | 16 28 | 5 0 | 21 24 | 21 17 | 4 58 | | n.a. |
| F 7 | 16 9 | 16 1 | 1 29 | 22 51 | 0 34 | 2 42 | 1 53 | 9 41 | 0 44 | 12 8 | 0 48 | 1 57 | 2 23 | 23 37 | 0 16 | 23 0 | 0 41 | 16 28 | 5 0 | 21 24 | 21 16 | 5 1 | | n.a. |
| S 8 | 15 51 | 20 32 | 0 17 | 22 49 | 0 42 | 3 12 | 1 59 | 9 56 | 0 44 | 12 10 | 0 47 | 1 54 | 2 23 | 23 37 | 0 16 | 23 0 | 0 41 | 16 28 | 5 0 | 21 24 | 21 16 | 5 5 | | n.a. |
| S 9 | 15 32 | 23 51 | 0n56 | 22 46 | 0 50 | 3 41 | 2 5 | 10 10 | 0 45 | 12 13 | 0 47 | 1 52 | 2 23 | 23 37 | 0 16 | 23 0 | 0 41 | 16 28 | 5 0 | 21 24 | 21 15 | 5 8 | | n.a. |
| M10 | 15 14 | 25 46 | 2 4 | 22 41 | 0 58 | 4 10 | 2 11 | 10 25 | 0 45 | 12 16 | 0 47 | 1 49 | 2 22 | 23 36 | 0 16 | 23 0 | 0 41 | 16 28 | 5 0 | 21 24 | 21 14 | 5 11 | | n.a. |
| T 11 | 14 55 | 26 9 | 3 4 | 22 36 | 1 6 | 4 39 | 2 18 | 10 39 | 0 46 | 12 19 | 0 47 | 1 46 | 2 22 | 23 36 | 0 16 | 23 0 | 0 41 | 16 28 | 5 0 | 21 23 | 21 14 | 5 14 | | n.a. |
| W12 | 14 35 | 25 3 | 3 54 | 22 29 | 1 13 | 5 8 | 2 24 | 10 53 | 0 47 | 12 22 | 0 46 | 1 43 | 2 22 | 23 36 | 0 16 | 23 0 | 0 41 | 16 28 | 4 59 | 21 21 | 21 13 | 5 17 | | n.a. |
| T 13 | 14 16 | 22 37 | 4 30 | 22 20 | 1 20 | 5 36 | 2 30 | 11 7 | 0 47 | 12 25 | 0 46 | 1 41 | 2 22 | 23 36 | 0 16 | 23 0 | 0 41 | 16 28 | 4 59 | 21 19 | 21 13 | 5 20 | | n.a. |
| F 14 | 13 56 | 19 6 | 4 53 | 22 10 | 1 27 | 6 4 | 2 37 | 11 21 | 0 48 | 12 28 | 0 46 | 1 38 | 2 22 | 23 36 | 0 16 | 23 0 | 0 41 | 16 29 | 4 59 | 21 17 | 21 12 | 5 23 | | n.a. |
| S 15 | 13 36 | 14 46 | 5 0 | 21 59 | 1 33 | 6 32 | 2 43 | 11 35 | 0 48 | 12 31 | 0 46 | 1 35 | 2 22 | 23 36 | 0 16 | 23 0 | 0 41 | 16 29 | 4 59 | 21 15 | 21 11 | 5 26 | | n.a. |
| S 16 | 13 16 | 9 54 | 4 53 | 21 46 | 1 38 | 7 0 | 2 49 | 11 49 | 0 49 | 12 34 | 0 45 | 1 32 | 2 21 | 23 36 | 0 16 | 23 0 | 0 41 | 16 29 | 4 59 | 21 12 | 21 11 | 5 29 | | n.a. |
| M17 | 12 56 | 4 44 | 4 33 | 21 32 | 1 44 | 7 28 | 2 56 | 12 3 | 0 49 | 12 37 | 0 45 | 1 29 | 2 21 | 23 36 | 0 16 | 23 0 | 0 41 | 16 29 | 4 59 | 21 10 | 21 10 | 5 33 | | n.a. |
| T 18 | 12 35 | 0s33 | 4 1 | 21 16 | 1 49 | 7 55 | 3 2 | 12 17 | 0 50 | 12 40 | 0 45 | 1 26 | 2 21 | 23 36 | 0 16 | 23 0 | 0 41 | 16 29 | 4 58 | 21 8 | 21 10 | 5 36 | | n.a. |
| W19 | 12 15 | 5 46 | 3 19 | 20 59 | 1 53 | 8 22 | 3 9 | 12 30 | 0 50 | 12 43 | 0 45 | 1 24 | 2 21 | 23 36 | 0 16 | 23 0 | 0 41 | 16 29 | 4 58 | 21 7 | 21 9 | 5 39 | | n.a. |
| T 20 | 11 54 | 10 46 | 2 28 | 20 40 | 1 57 | 8 48 | 3 15 | 12 44 | 0 51 | 12 47 | 0 45 | 1 21 | 2 21 | 23 36 | 0 16 | 23 0 | 0 41 | 16 29 | 4 58 | 21 6 | 21 8 | 5 42 | | n.a. |
| F 21 | 11 33 | 15 24 | 1 31 | 20 20 | 2 1 | 9 14 | 3 22 | 12 57 | 0 51 | 12 50 | 0 44 | 1 18 | 2 21 | 23 36 | 0 16 | 23 0 | 0 41 | 16 30 | 4 58 | 21 5 | 21 8 | 5 45 | | n.a. |
| S 22 | 11 11 | 19 28 | 0 29 | 19 58 | 2 4 | 9 40 | 3 28 | 13 11 | 0 52 | 12 53 | 0 44 | 1 15 | 2 21 | 23 36 | 0 16 | 23 0 | 0 41 | 16 30 | 4 58 | 21 5 | 21 7 | 5 48 | | n.a. |
| S 23 | 10 50 | 22 48 | 0s35 | 19 35 | 2 7 | 10 6 | 3 35 | 13 24 | 0 52 | 12 57 | 0 44 | 1 12 | 2 21 | 23 36 | 0 16 | 23 0 | 0 41 | 16 30 | 4 58 | 21 5 | 21 7 | 5 51 | | n.a. |
| M24 | 10 29 | 25 8 | 1 39 | 19 10 | 2 9 | 10 31 | 3 41 | 13 38 | 0 53 | 13 0 | 0 44 | 1 9 | 2 20 | 23 36 | 0 16 | 23 0 | 0 41 | 16 30 | 4 57 | 21 5 | 21 6 | 5 54 | | n.a. |
| T 25 | 10 7 | 26 15 | 2 39 | 18 44 | 2 11 | 10 56 | 3 48 | 13 51 | 0 53 | 13 3 | 0 43 | 1 6 | 2 20 | 23 36 | 0 16 | 23 0 | 0 41 | 16 30 | 4 57 | 21 5 | 21 5 | 5 57 | | n.a. |
| W26 | 9 45 | 25 57 | 3 34 | 18 15 | 2 13 | 11 20 | 3 54 | 14 4 | 0 54 | 13 7 | 0 43 | 1 3 | 2 20 | 23 36 | 0 16 | 23 0 | 0 41 | 16 31 | 4 57 | 21 4 | 21 5 | 6 0 | | n.a. |
| T 27 | 9 23 | 24 6 | 4 18 | 17 46 | 2 14 | 11 44 | 4 1 | 14 17 | 0 54 | 13 10 | 0 43 | 1 0 | 2 20 | 23 36 | 0 16 | 23 0 | 0 41 | 16 31 | 4 57 | 21 2 | 21 4 | 6 4 | | n.a. |
| F 28 | 9s 1 | 20s45 | 4s48 | 17s14 | 2s14 | 12n 8 | 4n 7 | 14n30 | 0n54 | 13n14 | 0s43 | 0s57 | 2s20 | 23n36 | 0n16 | 23n 0 | 0s41 | 16n31 | 4s57 | 21n 0 | 21n 3 | 6s 7 | | n.a. |

Julian Day Number = 1698078.5, Delta T = 03h07m00s
Ecliptic obliquity = 23°42'14, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°56'47, Lahiri = - 4°49'46 Julian Calendar 1 Feb. 64 BCE == Greg. Calendar 30 Jan. 064 BCE

The year -63 astronomical counting style corresponds to year 064 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 64 BCE
# geocentric

## MARCH 64 BCE (-63) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 24 11 | 8♓ 2'59 | 0♓36 | 21♒15 | 21♈51 | 6♉33 | 6♉52 | 3♈ 4 | 20°D10 | 27°R23 | 5♊ 5 | 2°R53 | 3♊18 | 23♎30 | n.a. | S 1 |
| S 2 | 10 28 7 | 9° 2'08 | 15°21 | 22°58 | 22°35 | 7°10 | 7° 3 | 3°12 | 20♊10 | 27♊23 | 5° 5 | 2♊41 | 3°15 | 23°37 | n.a. | S 2 |
| M 3 | 10 32 4 | 10° 1'15 | 0♈16 | 24°43 | 23°19 | 7°47 | 7°13 | 3°19 | 20°10 | 27°23 | 5° 6 | 2°31 | 3°12 | 23°44 | n.a. | M 3 |
| T 4 | 10 36 0 | 11° 0'20 | 15°11 | 26°29 | 24° 1 | 8°25 | 7°23 | 3°26 | 20°10 | 27°23 | 5° 6 | 2°22 | 3° 8 | 23°50 | n.a. | T 4 |
| W 5 | 10 39 57 | 11°59'23 | 29°58 | 28°16 | 24°41 | 9° 2 | 7°34 | 3°34 | 20°11 | 27°22 | 5° 6 | 2°17 | 3° 5 | 23°57 | n.a. | W 5 |
| T 6 | 10 43 53 | 12°58'23 | 14♉30 | 0♓ 5 | 25°21 | 9°39 | 7°44 | 3°41 | 20°11 | 27°22 | 5° 7 | 2°14 | 3° 2 | 24° 4 | n.a. | T 6 |
| F 7 | 10 47 50 | 13°57'21 | 28°44 | 1°56 | 26° 0 | 10°17 | 7°55 | 3°49 | 20°11 | 27°22 | 5° 7 | 2°D13 | 2°59 | 24°10 | n.a. | F 7 |
| S 8 | 10 51 47 | 14°56'17 | 12♊38 | 3°48 | 26°37 | 10°54 | 8° 6 | 3°56 | 20°12 | 27°22 | 5° 7 | 2°R13 | 2°56 | 24°17 | n.a. | S 8 |
| S 9 | 10 55 43 | 15°55'10 | 26°14 | 5°41 | 27°13 | 11°31 | 8°17 | 4° 4 | 20°12 | 27°22 | 5° 8 | 2°13 | 2°53 | 24°24 | n.a. | S 9 |
| M10 | 10 59 40 | 16°54'01 | 9♋33 | 7°36 | 27°48 | 12° 8 | 8°27 | 4°11 | 20°12 | 27°22 | 5° 8 | 2°11 | 2°49 | 24°30 | n.a. | M10 |
| T 11 | 11 3 36 | 17°52'49 | 22°37 | 9°32 | 28°21 | 12°46 | 8°38 | 4°19 | 20°13 | 27°D22 | 5° 9 | 2° 6 | 2°46 | 24°37 | n.a. | T 11 |
| W12 | 11 7 33 | 18°51'35 | 5♌28 | 11°29 | 28°53 | 13°23 | 8°50 | 4°26 | 20°14 | 27°22 | 5° 9 | 1°59 | 2°43 | 24°44 | n.a. | W12 |
| T 13 | 11 11 29 | 19°50'19 | 18° 7 | 13°28 | 29°23 | 14° 0 | 9° 1 | 4°34 | 20°14 | 27°22 | 5°10 | 1°50 | 2°40 | 24°50 | n.a. | T 13 |
| F 14 | 11 15 26 | 20°49'00 | 0♍36 | 15°29 | 29°52 | 14°38 | 9°12 | 4°41 | 20°15 | 27°22 | 5°10 | 1°38 | 2°37 | 24°57 | n.a. | F 14 |
| S 15 | 11 19 22 | 21°47'40 | 12°55 | 17°30 | 0♉19 | 15°15 | 9°23 | 4°49 | 20°16 | 27°22 | 5°11 | 1°25 | 2°34 | 25° 4 | n.a. | S 15 |
| S 16 | 11 23 19 | 22°46'17 | 25° 5 | 19°33 | 0°45 | 15°52 | 9°35 | 4°57 | 20°16 | 27°22 | 5°11 | 1°13 | 2°30 | 25°10 | n.a. | S 16 |
| M17 | 11 27 16 | 23°44'52 | 7♎ 7 | 21°37 | 1° 9 | 16°29 | 9°46 | 5° 4 | 20°17 | 27°22 | 5°12 | 1° 2 | 2°27 | 25°17 | n.a. | M17 |
| T 18 | 11 31 12 | 24°43'25 | 19° 2 | 23°42 | 1°31 | 17° 7 | 9°58 | 5°12 | 20°18 | 27°23 | 5°12 | 0°52 | 2°24 | 25°24 | n.a. | T 18 |
| W19 | 11 35 9 | 25°41'56 | 0♏52 | 25°48 | 1°51 | 17°44 | 10°10 | 5°20 | 20°19 | 27°23 | 5°13 | 0°46 | 2°21 | 25°30 | n.a. | W19 |
| T 20 | 11 39 5 | 26°40'26 | 12°40 | 27°54 | 2° 9 | 18°21 | 10°22 | 5°27 | 20°20 | 27°23 | 5°13 | 0°42 | 2°18 | 25°37 | n.a. | T 20 |
| F 21 | 11 43 2 | 27°38'54 | 24°29 | 0♈ 1 | 2°26 | 18°59 | 10°33 | 5°35 | 20°21 | 27°23 | 5°14 | 0°40 | 2°14 | 25°44 | n.a. | F 21 |
| S 22 | 11 46 58 | 28°37'20 | 6♐24 | 2° 9 | 2°40 | 19°36 | 10°45 | 5°43 | 20°22 | 27°24 | 5°15 | 0°D40 | 2°11 | 25°50 | n.a. | S 22 |
| S 23 | 11 50 55 | 29°35'44 | 18°29 | 4°16 | 2°52 | 20°13 | 10°57 | 5°50 | 20°23 | 27°24 | 5°15 | 0°41 | 2° 8 | 25°57 | n.a. | S 23 |
| M24 | 11 54 51 | 0♈34'07 | 0♑50 | 6°24 | 3° 2 | 20°51 | 11° 9 | 5°58 | 20°25 | 27°25 | 5°16 | 0°R41 | 2° 5 | 26° 4 | n.a. | M24 |
| T 25 | 11 58 48 | 1°32'28 | 13°31 | 8°31 | 3°10 | 21°28 | 11°21 | 6° 6 | 20°26 | 27°25 | 5°17 | 0°40 | 2° 2 | 26°10 | n.a. | T 25 |
| W26 | 12 2 45 | 2°30'47 | 26°37 | 10°37 | 3°16 | 22° 5 | 11°34 | 6°14 | 20°27 | 27°26 | 5°18 | 0°38 | 1°59 | 26°17 | n.a. | W26 |
| T 27 | 12 6 41 | 3°29'05 | 10♒12 | 12°42 | 3°19 | 22°43 | 11°46 | 6°21 | 20°29 | 27°26 | 5°18 | 0°33 | 1°55 | 26°24 | n.a. | T 27 |
| F 28 | 12 10 38 | 4°27'21 | 24°16 | 14°46 | 3°R20 | 23°20 | 11°58 | 6°29 | 20°30 | 27°27 | 5°19 | 0°26 | 1°52 | 26°30 | n.a. | F 28 |
| S 29 | 12 14 34 | 5°25'35 | 8♓48 | 16°48 | 3°19 | 23°57 | 12°10 | 6°37 | 20°31 | 27°27 | 5°20 | 0°18 | 1°49 | 26°37 | n.a. | S 29 |
| S 30 | 12 18 31 | 6°23'48 | 23°41 | 18°48 | 3°15 | 24°35 | 12°23 | 6°45 | 20°33 | 27°28 | 5°21 | 0°10 | 1°46 | 26°44 | n.a. | S 30 |
| M31 | 12 22 27 | 7♈21'58 | 8♈49 | 20♈45 | 3♉ 9 | 25♉12 | 12♉35 | 6♈52 | 20♊34 | 27♊28 | 5♊22 | 0♊ 2 | 1♊43 | 26♎50 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 8s39 | 16s 3 | 5s 0 | 16s42 | 2s14 | 12n31 | 4n13 | 14n43 | 0n55 | 13n17 | 0s43 | 0s54 | 2s20 | 23n36 | 0n16 | 23n 0 | 0s41 | 16n31 | 4s57 | 20n58 | 21n 3 | 6s10 | | n.a. |
| S 2 | 8 16 | 10 20 | 4 53 | 16 7 | 2 14 | 12 53 | 4 20 | 14 56 | 0 55 | 13 21 | 0 42 | 0 51 | 2 20 | 23 36 | 0 16 | 23 0 | 0 41 | 16 31 | 4 56 | 20 56 | 21 2 | 6 13 | | n.a. |
| M 3 | 7 54 | 3 57 | 4 26 | 15 31 | 2 13 | 13 16 | 4 26 | 15 8 | 0 56 | 13 24 | 0 42 | 0 48 | 2 20 | 23 36 | 0 16 | 23 0 | 0 41 | 16 32 | 4 56 | 20 54 | 21 2 | 6 16 | | n.a. |
| T 4 | 7 31 | 2n39 | 3 41 | 14 53 | 2 12 | 13 37 | 4 32 | 15 21 | 0 56 | 13 28 | 0 42 | 0 45 | 2 20 | 23 36 | 0 16 | 23 0 | 0 40 | 16 32 | 4 56 | 20 52 | 21 1 | 6 19 | | n.a. |
| W 5 | 7 8 | 9 4 | 2 42 | 14 14 | 2 10 | 13 58 | 4 38 | 15 33 | 0 56 | 13 32 | 0 42 | 0 42 | 2 19 | 23 36 | 0 16 | 23 0 | 0 40 | 16 32 | 4 56 | 20 51 | 21 0 | 6 22 | | n.a. |
| T 6 | 6 46 | 14 54 | 1 32 | 13 33 | 2 7 | 14 19 | 4 45 | 15 46 | 0 57 | 13 35 | 0 42 | 0 39 | 2 19 | 23 36 | 0 16 | 23 0 | 0 40 | 16 32 | 4 56 | 20 50 | 21 0 | 6 25 | | n.a. |
| F 7 | 6 23 | 19 48 | 0 18 | 12 50 | 2 4 | 14 39 | 4 51 | 15 58 | 0 57 | 13 39 | 0 41 | 0 36 | 2 19 | 23 36 | 0 16 | 23 0 | 0 40 | 16 32 | 4 56 | 20 50 | 20 59 | 6 28 | | n.a. |
| S 8 | 6 0 | 23 28 | 0n55 | 12 6 | 2 1 | 14 58 | 4 57 | 16 10 | 0 58 | 13 43 | 0 41 | 0 33 | 2 19 | 23 36 | 0 16 | 23 0 | 0 40 | 16 33 | 4 55 | 20 50 | 20 59 | 6 32 | | n.a. |
| S 9 | 5 37 | 25 43 | 2 4 | 11 20 | 1 57 | 15 17 | 5 3 | 16 22 | 0 58 | 13 46 | 0 41 | 0 30 | 2 19 | 23 36 | 0 16 | 23 0 | 0 40 | 16 33 | 4 55 | 20 50 | 20 58 | 6 35 | | n.a. |
| M10 | 5 14 | 26 25 | 3 4 | 10 33 | 1 52 | 15 35 | 5 8 | 16 34 | 0 58 | 13 50 | 0 41 | 0 27 | 2 19 | 23 36 | 0 16 | 23 0 | 0 40 | 16 33 | 4 55 | 20 50 | 20 57 | 6 38 | | n.a. |
| T 11 | 4 51 | 25 37 | 3 54 | 9 44 | 1 47 | 15 53 | 5 14 | 16 46 | 0 59 | 13 54 | 0 41 | 0 23 | 2 19 | 23 36 | 0 16 | 23 0 | 0 40 | 16 33 | 4 55 | 20 49 | 20 57 | 6 41 | | n.a. |
| W12 | 4 27 | 23 28 | 4 30 | 8 54 | 1 42 | 16 10 | 5 20 | 16 58 | 0 59 | 13 58 | 0 40 | 0 20 | 2 19 | 23 36 | 0 16 | 23 0 | 0 40 | 16 34 | 4 55 | 20 47 | 20 56 | 6 44 | | n.a. |
| T 13 | 4 4 | 20 12 | 4 53 | 8 2 | 1 36 | 16 26 | 5 25 | 17 10 | 0 59 | 14 1 | 0 40 | 0 17 | 2 19 | 23 36 | 0 16 | 23 0 | 0 40 | 16 34 | 4 55 | 20 45 | 20 55 | 6 47 | | n.a. |
| F 14 | 3 41 | 16 4 | 5 1 | 7 9 | 1 29 | 16 41 | 5 31 | 17 21 | 1 0 | 14 5 | 0 40 | 0 14 | 2 19 | 23 36 | 0 16 | 23 1 | 0 40 | 16 34 | 4 54 | 20 43 | 20 55 | 6 50 | | n.a. |
| S 15 | 3 17 | 11 19 | 4 55 | 6 15 | 1 22 | 16 56 | 5 36 | 17 33 | 1 0 | 14 9 | 0 40 | 0 11 | 2 19 | 23 36 | 0 16 | 23 1 | 0 40 | 16 34 | 4 54 | 20 40 | 20 54 | 6 53 | | n.a. |
| S 16 | 2 54 | 6 11 | 4 36 | 5 19 | 1 14 | 17 10 | 5 41 | 17 44 | 1 0 | 14 13 | 0 40 | 0 8 | 2 19 | 23 36 | 0 16 | 23 1 | 0 40 | 16 35 | 4 54 | 20 38 | 20 54 | 6 56 | | n.a. |
| M17 | 2 31 | 0 53 | 4 5 | 4 22 | 1 6 | 17 23 | 5 46 | 17 55 | 1 1 | 14 17 | 0 40 | 0 5 | 2 19 | 23 36 | 0 16 | 23 1 | 0 40 | 16 35 | 4 54 | 20 35 | 20 53 | 6 59 | | n.a. |
| T 18 | 2 7 | 4s25 | 3 23 | 3 24 | 0 57 | 17 35 | 5 50 | 18 6 | 1 1 | 14 21 | 0 39 | 0 2 | 2 19 | 23 36 | 0 16 | 23 1 | 0 40 | 16 35 | 4 54 | 20 34 | 20 52 | 7 3 | | n.a. |
| W19 | 1 44 | 9 32 | 2 32 | 2 25 | 0 48 | 17 47 | 5 55 | 18 17 | 1 1 | 14 24 | 0 39 | 0n 1 | 2 19 | 23 36 | 0 16 | 23 1 | 0 40 | 16 35 | 4 54 | 20 32 | 20 52 | 7 6 | | n.a. |
| T 20 | 1 20 | 14 18 | 1 35 | 1 26 | 0 39 | 17 57 | 5 59 | 18 28 | 1 2 | 14 28 | 0 39 | 0 4 | 2 19 | 23 36 | 0 16 | 23 1 | 0 40 | 16 36 | 4 54 | 20 31 | 20 51 | 7 9 | | n.a. |
| F 21 | 0 57 | 18 34 | 0 33 | 0 26 | 0 29 | 18 6 | 6 3 | 18 39 | 1 2 | 14 32 | 0 39 | 0 8 | 2 18 | 23 36 | 0 16 | 23 1 | 0 40 | 16 36 | 4 53 | 20 31 | 20 50 | 7 12 | | n.a. |
| S 22 | 0 33 | 22 7 | 0s31 | 0n35 | 0 18 | 18 15 | 6 6 | 18 50 | 1 2 | 14 36 | 0 39 | 0 11 | 2 18 | 23 37 | 0 16 | 23 1 | 0 40 | 16 36 | 4 53 | 20 31 | 20 50 | 7 15 | | n.a. |
| S 23 | 0 10 | 24 45 | 1 34 | 1 36 | 0 8 | 18 23 | 6 10 | 19 0 | 1 3 | 14 40 | 0 39 | 0 14 | 2 18 | 23 37 | 0 16 | 23 1 | 0 40 | 16 37 | 4 53 | 20 31 | 20 49 | 7 18 | | n.a. |
| M24 | 0n14 | 26 16 | 2 34 | 2 37 | 0n 3 | 18 29 | 6 13 | 19 10 | 1 3 | 14 44 | 0 38 | 0 17 | 2 18 | 23 37 | 0 16 | 23 1 | 0 40 | 16 37 | 4 53 | 20 31 | 20 48 | 7 21 | | n.a. |
| T 25 | 0 37 | 26 28 | 3 29 | 3 37 | 0 14 | 18 34 | 6 16 | 19 21 | 1 3 | 14 48 | 0 38 | 0 20 | 2 18 | 23 37 | 0 16 | 23 1 | 0 40 | 16 37 | 4 53 | 20 31 | 20 48 | 7 24 | | n.a. |
| W26 | 1 1 | 25 13 | 4 14 | 4 38 | 0 25 | 18 39 | 6 18 | 19 31 | 1 3 | 14 52 | 0 38 | 0 23 | 2 18 | 23 37 | 0 16 | 23 1 | 0 40 | 16 37 | 4 53 | 20 30 | 20 47 | 7 27 | | n.a. |
| T 27 | 1 24 | 22 29 | 4 47 | 5 37 | 0 36 | 18 42 | 6 20 | 19 41 | 1 4 | 14 56 | 0 38 | 0 26 | 2 18 | 23 37 | 0 16 | 23 1 | 0 40 | 16 38 | 4 52 | 20 29 | 20 47 | 7 30 | | n.a. |
| F 28 | 1 47 | 18 21 | 5 4 | 6 36 | 0 47 | 18 44 | 6 22 | 19 51 | 1 4 | 15 0 | 0 38 | 0 29 | 2 18 | 23 37 | 0 16 | 23 1 | 0 40 | 16 38 | 4 52 | 20 28 | 20 46 | 7 33 | | n.a. |
| S 29 | 2 11 | 13 1 | 5 2 | 7 33 | 0 58 | 18 44 | 6 23 | 20 0 | 1 4 | 15 4 | 0 38 | 0 33 | 2 18 | 23 37 | 0 16 | 23 1 | 0 40 | 16 38 | 4 52 | 20 26 | 20 45 | 7 37 | | n.a. |
| S 30 | 2 34 | 6 49 | 4 41 | 8 29 | 1 8 | 18 44 | 6 24 | 20 10 | 1 4 | 15 8 | 0 37 | 0 36 | 2 18 | 23 37 | 0 16 | 23 1 | 0 40 | 16 39 | 4 52 | 20 25 | 20 45 | 7 40 | | n.a. |
| M31 | 2n57 | 0s 8 | 3s59 | 9n24 | 1n18 | 18n42 | 6n24 | 20n19 | 1n 5 | 15n12 | 0s37 | 0n39 | 2s18 | 23n37 | 0n16 | 23n 1 | 0s40 | 16n39 | 4s52 | 20n23 | 20n44 | 7s43 | | n.a. |

Julian Day Number = 1698106.5, Delta T = 03h06m59s
Ecliptic obliquity = 23°42'15, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°56'43, Lahiri = - 4°49'43 Julian Calendar 1 March 64 BCE == Greg. Calendar 27 Feb. 064 BCE

The year -63 astronomical counting style corresponds to year 064 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 64 BCE
# geocentric

## APRIL 64 BCE (-63) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 26 24 | 8♈20'07 | 24♈ 0 | 22♈41 | 3°R 0 | 25♉49 | 12♉48 | 7♈ 0 | 20♊36 | 27♊29 | 5♊23 | 29°R56 | 1♊40 | 26♎57 | n.a. | T 1 |
| W 2 | 12 30 20 | 9°18'15 | 9♉ 5 | 24°33 | 2♉49 | 26°27 | 13° 1 | 7° 8 | 20°38 | 27°30 | 5°23 | 29♉52 | 1°36 | 27° 4 | n.a. | W 2 |
| T 3 | 12 34 17 | 10°16'20 | 23°55 | 26°22 | 2°36 | 27° 4 | 13°13 | 7°16 | 20°39 | 27°31 | 5°24 | 29°D50 | 1°33 | 27°10 | n.a. | T 3 |
| F 4 | 12 38 13 | 11°14'23 | 8♊25 | 28° 9 | 2°20 | 27°41 | 13°26 | 7°23 | 20°41 | 27°31 | 5°25 | 29°50 | 1°30 | 27°17 | n.a. | F 4 |
| S 5 | 12 42 10 | 12°12'25 | 22°31 | 29°51 | 2° 2 | 28°19 | 13°39 | 7°31 | 20°43 | 27°32 | 5°26 | 29°52 | 1°27 | 27°24 | n.a. | S 5 |
| S 6 | 12 46 7 | 13°10'24 | 6♋13 | 1♉31 | 1°41 | 28°56 | 13°51 | 7°39 | 20°45 | 27°33 | 5°27 | 29°53 | 1°24 | 27°30 | n.a. | S 6 |
| M 7 | 12 50 3 | 14° 8'22 | 19°32 | 3° 6 | 1°18 | 29°33 | 14° 4 | 7°47 | 20°47 | 27°34 | 5°28 | 29°R53 | 1°20 | 27°37 | n.a. | M 7 |
| T 8 | 12 54 0 | 15° 6'17 | 2♌31 | 4°38 | 0°53 | 0♊11 | 14°17 | 7°54 | 20°48 | 27°35 | 5°29 | 29°51 | 1°17 | 27°44 | n.a. | T 8 |
| W 9 | 12 57 56 | 16° 4'10 | 15°13 | 6° 7 | 0°26 | 0°48 | 14°30 | 8° 2 | 20°50 | 27°36 | 5°30 | 29°48 | 1°14 | 27°50 | n.a. | W 9 |
| T 10 | 13 1 53 | 17° 2'02 | 27°40 | 7°31 | 29♈57 | 1°25 | 14°43 | 8°10 | 20°52 | 27°37 | 5°31 | 29°42 | 1°11 | 27°57 | n.a. | T 10 |
| F 11 | 13 5 49 | 17°59'52 | 9♍56 | 8°51 | 29°26 | 2° 3 | 14°56 | 8°18 | 20°54 | 27°38 | 5°32 | 29°36 | 1° 8 | 28° 4 | n.a. | F 11 |
| S 12 | 13 9 46 | 18°57'40 | 22° 3 | 10° 8 | 28°54 | 2°40 | 15° 9 | 8°25 | 20°57 | 27°39 | 5°33 | 29°28 | 1° 5 | 28°10 | n.a. | S 12 |
| S 13 | 13 13 42 | 19°55'26 | 4♎ 2 | 11°20 | 28°20 | 3°17 | 15°22 | 8°33 | 20°59 | 27°40 | 5°34 | 29°21 | 1° 1 | 28°17 | n.a. | S 13 |
| M14 | 13 17 39 | 20°53'11 | 15°56 | 12°28 | 27°44 | 3°55 | 15°36 | 8°41 | 21° 1 | 27°41 | 5°35 | 29°14 | 0°58 | 28°24 | n.a. | M14 |
| T 15 | 13 21 36 | 21°50'54 | 27°47 | 13°32 | 27° 8 | 4°32 | 15°49 | 8°48 | 21° 3 | 27°42 | 5°37 | 29° 9 | 0°55 | 28°30 | n.a. | T 15 |
| W16 | 13 25 32 | 22°48'36 | 9♏35 | 14°31 | 26°31 | 5°10 | 16° 2 | 8°56 | 21° 5 | 27°43 | 5°38 | 29° 6 | 0°52 | 28°37 | n.a. | W16 |
| T 17 | 13 29 29 | 23°46'16 | 21°25 | 15°27 | 25°53 | 5°47 | 16°15 | 9° 3 | 21° 8 | 27°44 | 5°39 | 29° 4 | 0°49 | 28°44 | n.a. | T 17 |
| F 18 | 13 33 25 | 24°43'55 | 3♐17 | 16°18 | 25°16 | 6°24 | 16°29 | 9°11 | 21°10 | 27°45 | 5°40 | 29°D 4 | 0°45 | 28°50 | n.a. | F 18 |
| S 19 | 13 37 22 | 25°41'33 | 15°15 | 17° 4 | 24°38 | 7° 2 | 16°42 | 9°19 | 21°12 | 27°47 | 5°41 | 29° 5 | 0°42 | 28°57 | n.a. | S 19 |
| S 20 | 13 41 18 | 26°39'10 | 27°24 | 17°46 | 24° 0 | 7°39 | 16°55 | 9°26 | 21°15 | 27°48 | 5°42 | 29° 6 | 0°39 | 29° 4 | n.a. | S 20 |
| M21 | 13 45 15 | 27°36'46 | 9♑47 | 18°23 | 23°22 | 8°16 | 17° 9 | 9°34 | 21°17 | 27°49 | 5°43 | 29° 8 | 0°36 | 29°10 | n.a. | M21 |
| T 22 | 13 49 11 | 28°34'20 | 22°28 | 18°56 | 22°46 | 8°54 | 17°22 | 9°41 | 21°20 | 27°50 | 5°45 | 29° 9 | 0°33 | 29°17 | n.a. | T 22 |
| W23 | 13 53 8 | 29°31'54 | 5♒31 | 19°24 | 22°10 | 9°31 | 17°36 | 9°49 | 21°22 | 27°52 | 5°46 | 29°R 9 | 0°30 | 29°24 | n.a. | W23 |
| T 24 | 13 57 5 | 0♉29'27 | 19° 0 | 19°47 | 21°35 | 10° 8 | 17°49 | 9°56 | 21°25 | 27°53 | 5°47 | 29° 8 | 0°26 | 29°30 | n.a. | T 24 |
| F 25 | 14 1 1 | 1°26'58 | 2♓56 | 20° 6 | 21° 2 | 10°46 | 18° 3 | 10° 4 | 21°27 | 27°54 | 5°48 | 29° 5 | 0°23 | 29°37 | n.a. | F 25 |
| S 26 | 14 4 58 | 2°24'29 | 17°19 | 20°20 | 20°30 | 11°23 | 18°16 | 10°11 | 21°30 | 27°56 | 5°50 | 29° 2 | 0°20 | 29°44 | n.a. | S 26 |
| S 27 | 14 8 54 | 3°21'58 | 2♈ 5 | 20°29 | 20° 0 | 12° 1 | 18°30 | 10°18 | 21°33 | 27°57 | 5°51 | 28°58 | 0°17 | 29°50 | n.a. | S 27 |
| M28 | 14 12 51 | 4°19'27 | 17° 9 | 20°R33 | 19°32 | 12°38 | 18°43 | 10°26 | 21°35 | 27°59 | 5°52 | 28°55 | 0°14 | 29°57 | n.a. | M28 |
| T 29 | 14 16 47 | 5°16'55 | 2♉21 | 20°33 | 19° 5 | 13°15 | 18°57 | 10°33 | 21°38 | 28° 0 | 5°53 | 28°53 | 0°11 | 0♏ 4 | n.a. | T 29 |
| W30 | 14 20 44 | 6♉14'21 | 17♉32 | 20♉28 | 18♈41 | 13♊53 | 19♉10 | 10♈40 | 21♊41 | 28♊ 2 | 5♊55 | 28♉51 | 0♊ 7 | 0♏10 | n.a. | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3n20 | 6n37 | 3s 0 | 10n17 | 1n28 | 18n38 | 6n24 | 20n29 | 1n 5 | 15n16 | 0s37 | 0n42 | 2s18 | 23n37 | 0n16 | 23n 1 | 0s40 | 16n39 | 4s52 | 20n22 | 20n43 | 7s46 | | n.a. |
| W 2 | 3 44 | 12 57 | 1 49 | 11 8 | 1 38 | 18 34 | 6 23 | 20 38 | 1 5 | 15 20 | 0 37 | 0 45 | 2 18 | 23 38 | 0 16 | 23 1 | 0 39 | 16 39 | 4 52 | 20 21 | 20 43 | 7 49 | | n.a. |
| T 3 | 4 7 | 18 27 | 0 32 | 11 57 | 1 47 | 18 28 | 6 22 | 20 47 | 1 5 | 15 24 | 0 37 | 0 48 | 2 18 | 23 38 | 0 16 | 23 1 | 0 39 | 16 40 | 4 51 | 20 20 | 20 42 | 7 52 | | n.a. |
| F 4 | 4 30 | 22 43 | 0n46 | 12 43 | 1 55 | 18 20 | 6 20 | 20 56 | 1 6 | 15 28 | 0 37 | 0 51 | 2 18 | 23 38 | 0 16 | 23 1 | 0 39 | 16 40 | 4 51 | 20 20 | 20 41 | 7 55 | | n.a. |
| S 5 | 4 53 | 25 29 | 1 59 | 13 28 | 2 3 | 18 11 | 6 17 | 21 4 | 1 6 | 15 32 | 0 37 | 0 54 | 2 18 | 23 38 | 0 16 | 23 1 | 0 39 | 16 40 | 4 51 | 20 21 | 20 41 | 7 58 | | n.a. |
| S 6 | 5 15 | 26 37 | 3 4 | 14 10 | 2 10 | 18 1 | 6 14 | 21 13 | 1 6 | 15 36 | 0 36 | 0 57 | 2 18 | 23 38 | 0 16 | 23 2 | 0 39 | 16 41 | 4 51 | 20 21 | 20 40 | 8 1 | | n.a. |
| M 7 | 5 38 | 26 9 | 3 56 | 14 49 | 2 17 | 17 49 | 6 10 | 21 21 | 1 6 | 15 40 | 0 36 | 1 0 | 2 18 | 23 38 | 0 16 | 23 2 | 0 39 | 16 41 | 4 51 | 20 21 | 20 39 | 8 4 | | n.a. |
| T 8 | 6 1 | 24 16 | 4 35 | 15 26 | 2 22 | 17 36 | 6 5 | 21 30 | 1 7 | 15 44 | 0 36 | 1 3 | 2 18 | 23 38 | 0 15 | 23 2 | 0 39 | 16 41 | 4 51 | 20 21 | 20 39 | 8 7 | | n.a. |
| W 9 | 6 23 | 21 12 | 4 59 | 16 1 | 2 27 | 17 21 | 6 0 | 21 38 | 1 7 | 15 48 | 0 36 | 1 6 | 2 18 | 23 38 | 0 15 | 23 2 | 0 39 | 16 42 | 4 51 | 20 20 | 20 38 | 8 10 | | n.a. |
| T 10 | 6 46 | 17 14 | 5 9 | 16 33 | 2 31 | 17 5 | 5 54 | 21 46 | 1 7 | 15 52 | 0 36 | 1 9 | 2 18 | 23 39 | 0 15 | 23 2 | 0 39 | 16 42 | 4 50 | 20 19 | 20 37 | 8 14 | | n.a. |
| F 11 | 7 8 | 12 36 | 5 4 | 17 3 | 2 34 | 16 48 | 5 48 | 21 54 | 1 7 | 15 56 | 0 36 | 1 12 | 2 18 | 23 39 | 0 15 | 23 2 | 0 39 | 16 42 | 4 50 | 20 17 | 20 37 | 8 17 | | n.a. |
| S 12 | 7 30 | 7 33 | 4 46 | 17 30 | 2 37 | 16 29 | 5 40 | 22 2 | 1 7 | 16 0 | 0 36 | 1 15 | 2 18 | 23 39 | 0 15 | 23 2 | 0 39 | 16 42 | 4 50 | 20 16 | 20 36 | 8 20 | | n.a. |
| S 13 | 7 52 | 2 16 | 4 15 | 17 54 | 2 38 | 16 9 | 5 32 | 22 9 | 1 8 | 16 4 | 0 35 | 1 18 | 2 18 | 23 39 | 0 15 | 23 2 | 0 39 | 16 43 | 4 50 | 20 14 | 20 35 | 8 23 | | n.a. |
| M14 | 8 14 | 3s 4 | 3 33 | 18 16 | 2 39 | 15 48 | 5 23 | 22 16 | 1 8 | 16 8 | 0 35 | 1 21 | 2 19 | 23 39 | 0 15 | 23 2 | 0 39 | 16 43 | 4 50 | 20 13 | 20 35 | 8 26 | | n.a. |
| T 15 | 8 36 | 8 17 | 2 42 | 18 36 | 2 39 | 15 26 | 5 14 | 22 24 | 1 8 | 16 12 | 0 35 | 1 24 | 2 19 | 23 39 | 0 15 | 23 2 | 0 39 | 16 43 | 4 50 | 20 11 | 20 34 | 8 29 | | n.a. |
| W16 | 8 58 | 13 12 | 1 44 | 18 53 | 2 37 | 15 3 | 5 4 | 22 31 | 1 8 | 16 16 | 0 35 | 1 27 | 2 19 | 23 39 | 0 15 | 23 2 | 0 39 | 16 44 | 4 50 | 20 11 | 20 33 | 8 32 | | n.a. |
| T 17 | 9 20 | 17 39 | 0 42 | 19 7 | 2 35 | 14 39 | 4 53 | 22 38 | 1 8 | 16 20 | 0 35 | 1 30 | 2 19 | 23 40 | 0 15 | 23 2 | 0 39 | 16 44 | 4 49 | 20 10 | 20 33 | 8 35 | | n.a. |
| F 18 | 9 41 | 21 25 | 0s23 | 19 19 | 2 32 | 14 14 | 4 42 | 22 44 | 1 8 | 16 24 | 0 35 | 1 33 | 2 19 | 23 40 | 0 15 | 23 2 | 0 39 | 16 44 | 4 49 | 20 10 | 20 32 | 8 38 | | n.a. |
| S 19 | 10 2 | 24 20 | 1 27 | 19 29 | 2 28 | 13 49 | 4 30 | 22 51 | 1 9 | 16 28 | 0 35 | 1 36 | 2 19 | 23 40 | 0 15 | 23 2 | 0 39 | 16 45 | 4 49 | 20 10 | 20 31 | 8 41 | | n.a. |
| S 20 | 10 23 | 26 10 | 2 29 | 19 36 | 2 23 | 13 23 | 4 18 | 22 57 | 1 9 | 16 31 | 0 35 | 1 39 | 2 19 | 23 40 | 0 15 | 23 2 | 0 39 | 16 45 | 4 49 | 20 11 | 20 31 | 8 44 | | n.a. |
| M21 | 10 44 | 26 44 | 3 25 | 19 41 | 2 17 | 12 58 | 4 5 | 23 4 | 1 9 | 16 35 | 0 34 | 1 42 | 2 19 | 23 40 | 0 15 | 23 2 | 0 39 | 16 45 | 4 49 | 20 11 | 20 30 | 8 47 | | n.a. |
| T 22 | 11 5 | 25 57 | 4 12 | 19 43 | 2 9 | 12 32 | 3 52 | 23 10 | 1 9 | 16 39 | 0 34 | 1 45 | 2 19 | 23 40 | 0 15 | 23 2 | 0 39 | 16 46 | 4 49 | 20 11 | 20 29 | 8 50 | | n.a. |
| W23 | 11 26 | 23 44 | 4 48 | 19 43 | 2 1 | 12 6 | 3 38 | 23 16 | 1 9 | 16 43 | 0 34 | 1 48 | 2 19 | 23 41 | 0 15 | 23 2 | 0 39 | 16 46 | 4 49 | 20 11 | 20 29 | 8 54 | | n.a. |
| T 24 | 11 46 | 20 10 | 5 9 | 19 41 | 1 52 | 11 40 | 3 25 | 23 22 | 1 9 | 16 47 | 0 34 | 1 51 | 2 19 | 23 41 | 0 15 | 23 2 | 0 39 | 16 46 | 4 49 | 20 11 | 20 28 | 8 57 | | n.a. |
| F 25 | 12 6 | 15 24 | 5 13 | 19 36 | 1 42 | 11 14 | 3 11 | 23 27 | 1 10 | 16 51 | 0 34 | 1 54 | 2 19 | 23 41 | 0 15 | 23 2 | 0 39 | 16 47 | 4 49 | 20 11 | 20 27 | 9 0 | | n.a. |
| S 26 | 12 27 | 9 38 | 4 58 | 19 29 | 1 31 | 10 49 | 2 57 | 23 33 | 1 10 | 16 55 | 0 34 | 1 57 | 2 19 | 23 41 | 0 15 | 23 3 | 0 39 | 16 47 | 4 48 | 20 10 | 20 27 | 9 3 | | n.a. |
| S 27 | 12 46 | 3 11 | 4 23 | 19 20 | 1 19 | 10 24 | 2 43 | 23 38 | 1 10 | 16 59 | 0 34 | 1 59 | 2 19 | 23 41 | 0 15 | 23 3 | 0 39 | 16 47 | 4 48 | 20 9 | 20 26 | 9 6 | | n.a. |
| M28 | 13 6 | 3n35 | 3 30 | 19 9 | 1 6 | 10 0 | 2 28 | 23 43 | 1 10 | 17 3 | 0 34 | 2 2 | 2 19 | 23 41 | 0 15 | 23 3 | 0 39 | 16 48 | 4 48 | 20 8 | 20 25 | 9 9 | | n.a. |
| T 29 | 13 26 | 10 13 | 2 21 | 18 55 | 0 52 | 9 37 | 2 14 | 23 48 | 1 10 | 17 7 | 0 33 | 2 5 | 2 20 | 23 42 | 0 15 | 23 3 | 0 39 | 16 48 | 4 48 | 20 8 | 20 25 | 9 12 | | n.a. |
| W30 | 13n45 | 16n16 | 1s 2 | 18n40 | 0n38 | 9n15 | 2n 0 | 23n53 | 1n10 | 17n11 | 0s33 | 2n 8 | 2s20 | 23n42 | 0n15 | 23n 3 | 0s39 | 16n48 | 4s48 | 20n 7 | 20n24 | 9s15 | | n.a. |

Julian Day Number = 1698137.5, Delta T = 03h06m58s
Ecliptic obliquity = 23°42'15, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°56'39, Lahiri = - 4°49'38 Julian Calendar 1 Apr. 64 BCE == Greg. Calendar 30 March 064 BCE

The year -63 astronomical counting style corresponds to year 064 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 64 BCE
# geocentric

## MAY 64 BCE (-63) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 24 40 | 7♉11'47 | 2♊32 | 20°R19 | 18°R19 | 14♊30 | 19♉24 | 10♈47 | 21♊44 | 28♊ 3 | 5♊56 | 28°D51 | 0♊ 4 | 0♏17 | n.a. | T 1 |
| F 2 | 14 28 37 | 8° 9'11 | 17°14 | 20♉ 6 | 17♈59 | 15° 7 | 19°38 | 10°55 | 21°47 | 28° 5 | 5°57 | 28♉52 | 0° 1 | 0°24 | n.a. | F 2 |
| S 3 | 14 32 34 | 9° 6'35 | 1♋32 | 19°49 | 17°41 | 15°45 | 19°51 | 11° 2 | 21°49 | 28° 6 | 5°59 | 28°53 | 29♉58 | 0°30 | n.a. | S 3 |
| S 4 | 14 36 30 | 10° 3'57 | 15°24 | 19°28 | 17°26 | 16°22 | 20° 5 | 11° 9 | 21°52 | 28° 8 | 6° 0 | 28°54 | 29°55 | 0°37 | n.a. | S 4 |
| M 5 | 14 40 27 | 11° 1'18 | 28°50 | 19° 4 | 17°13 | 17° 0 | 20°19 | 11°16 | 21°55 | 28°10 | 6° 1 | 28°55 | 29°51 | 0°44 | n.a. | M 5 |
| T 6 | 14 44 23 | 11°58'37 | 11♌51 | 18°37 | 17° 3 | 17°37 | 20°32 | 11°23 | 21°58 | 28°11 | 6° 3 | 28°R56 | 29°48 | 0°50 | n.a. | T 6 |
| W 7 | 14 48 20 | 12°55'55 | 24°32 | 18° 8 | 16°55 | 18°15 | 20°46 | 11°30 | 22° 1 | 28°13 | 6° 4 | 28°55 | 29°45 | 0°57 | n.a. | W 7 |
| T 8 | 14 52 16 | 13°53'13 | 6♍55 | 17°36 | 16°49 | 18°52 | 21° 0 | 11°37 | 22° 4 | 28°15 | 6° 5 | 28°54 | 29°42 | 1° 4 | n.a. | T 8 |
| F 9 | 14 56 13 | 14°50'29 | 19° 5 | 17° 4 | 16°46 | 19°29 | 21°14 | 11°44 | 22° 7 | 28°16 | 6° 7 | 28°53 | 29°39 | 1°10 | n.a. | F 9 |
| S 10 | 15 0 9 | 15°47'44 | 1♎ 5 | 16°30 | 16°D45 | 20° 7 | 21°27 | 11°51 | 22°10 | 28°18 | 6° 8 | 28°51 | 29°36 | 1°17 | n.a. | S 10 |
| S 11 | 15 4 6 | 16°44'58 | 12°58 | 15°57 | 16°46 | 20°44 | 21°41 | 11°58 | 22°14 | 28°20 | 6°10 | 28°49 | 29°32 | 1°24 | n.a. | S 11 |
| M12 | 15 8 3 | 17°42'11 | 24°48 | 15°23 | 16°50 | 21°22 | 21°55 | 12° 5 | 22°17 | 28°22 | 6°11 | 28°47 | 29°29 | 1°30 | n.a. | M12 |
| T 13 | 15 11 59 | 18°39'24 | 6♏36 | 14°51 | 16°56 | 21°59 | 22° 9 | 12°12 | 22°20 | 28°23 | 6°12 | 28°46 | 29°26 | 1°37 | n.a. | T 13 |
| W14 | 15 15 56 | 19°36'35 | 18°27 | 14°20 | 17° 4 | 22°36 | 22°22 | 12°18 | 22°23 | 28°25 | 6°14 | 28°45 | 29°23 | 1°44 | n.a. | W14 |
| T 15 | 15 19 52 | 20°33'47 | 0♐21 | 13°51 | 17°14 | 23°14 | 22°36 | 12°25 | 22°26 | 28°27 | 6°15 | 28°D45 | 29°20 | 1°50 | n.a. | T 15 |
| F 16 | 15 23 49 | 21°30'57 | 12°20 | 13°25 | 17°26 | 23°51 | 22°50 | 12°32 | 22°29 | 28°29 | 6°17 | 28°46 | 29°17 | 1°57 | n.a. | F 16 |
| S 17 | 15 27 45 | 22°28'08 | 24°28 | 13° 1 | 17°41 | 24°29 | 23° 4 | 12°38 | 22°33 | 28°31 | 6°18 | 28°46 | 29°13 | 2° 4 | n.a. | S 17 |
| S 18 | 15 31 42 | 23°25'18 | 6♑47 | 12°41 | 17°57 | 25° 6 | 23°18 | 12°45 | 22°36 | 28°33 | 6°20 | 28°47 | 29°10 | 2°10 | n.a. | S 18 |
| M19 | 15 35 39 | 24°22'27 | 19°18 | 12°24 | 18°15 | 25°44 | 23°31 | 12°51 | 22°39 | 28°34 | 6°21 | 28°47 | 29° 7 | 2°17 | n.a. | M19 |
| T 20 | 15 39 35 | 25°19'37 | 2♒ 5 | 12°12 | 18°35 | 26°21 | 23°45 | 12°58 | 22°43 | 28°36 | 6°23 | 28°47 | 29° 4 | 2°24 | n.a. | T 20 |
| W21 | 15 43 32 | 26°16'46 | 15°11 | 12° 3 | 18°57 | 26°59 | 23°59 | 13° 4 | 22°46 | 28°38 | 6°24 | 28°48 | 29° 1 | 2°30 | n.a. | W21 |
| T 22 | 15 47 28 | 27°13'55 | 28°37 | 11°D59 | 19°21 | 27°36 | 24°13 | 13°11 | 22°49 | 28°40 | 6°25 | 28°R48 | 28°57 | 2°37 | n.a. | T 22 |
| F 23 | 15 51 25 | 28°11'04 | 12♓25 | 12° 0 | 19°46 | 28°14 | 24°26 | 13°17 | 22°53 | 28°42 | 6°27 | 28°48 | 28°54 | 2°44 | n.a. | F 23 |
| S 24 | 15 55 21 | 29° 8'12 | 26°35 | 12° 5 | 20°13 | 28°51 | 24°40 | 13°23 | 22°56 | 28°44 | 6°28 | 28°D48 | 28°51 | 2°50 | n.a. | S 24 |
| S 25 | 15 59 18 | 0♊ 5'21 | 11♈ 6 | 12°15 | 20°41 | 29°29 | 24°54 | 13°29 | 22°59 | 28°46 | 6°30 | 28°48 | 28°48 | 2°57 | n.a. | S 25 |
| M26 | 16 3 14 | 1° 2'30 | 25°54 | 12°29 | 21°11 | 0♋ 6 | 25° 8 | 13°35 | 23° 3 | 28°48 | 6°31 | 28°48 | 28°45 | 3° 4 | n.a. | M26 |
| T 27 | 16 7 11 | 1°59'39 | 10♉52 | 12°49 | 21°42 | 0°44 | 25°21 | 13°41 | 23° 6 | 28°50 | 6°33 | 28°48 | 28°42 | 3°10 | n.a. | T 27 |
| W28 | 16 11 8 | 2°56'47 | 25°53 | 13°13 | 22°15 | 1°21 | 25°35 | 13°47 | 23°10 | 28°52 | 6°34 | 28°R48 | 28°38 | 3°17 | n.a. | W28 |
| T 29 | 16 15 4 | 3°53'56 | 10♊49 | 13°41 | 22°48 | 1°59 | 25°49 | 13°53 | 23°13 | 28°54 | 6°36 | 28°48 | 28°35 | 3°24 | n.a. | T 29 |
| F 30 | 16 19 1 | 4°51'05 | 25°31 | 14°15 | 23°24 | 2°36 | 26° 2 | 13°59 | 23°17 | 28°56 | 6°37 | 28°48 | 28°32 | 3°30 | n.a. | F 30 |
| S 31 | 16 22 57 | 5♊48'13 | 9♋54 | 14♉53 | 24♈ 0 | 3♋14 | 26♉16 | 14♈ 5 | 23♊20 | 28♊58 | 6♊39 | 28♉47 | 28♉29 | 3♏37 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| T 1 | 14n 4 | 21n14 | 0n20 | 18n23 | 0n23 | 8n53 | 1n46 | 23n57 | 1n10 | 17n14 | 0s33 | 2n11 | 2s20 | 23n42 | 0n15 | 23n 3 | 0s39 | 16n49 | 4s48 | 20n 7 | 20n23 | 9s18 | | | n.a. |
| F 2 | 14 23 | 24 44 | 1 40 | 18 4 | 0 7 | 8 33 | 1 32 | 24 2 | 1 10 | 17 18 | 0 33 | 2 13 | 2 20 | 23 42 | 0 15 | 23 3 | 0 39 | 16 49 | 4 48 | 20 8 | 20 23 | 9 21 | | | n.a. |
| S 3 | 14 41 | 26 32 | 2 51 | 17 44 | 0s10 | 8 14 | 1 19 | 24 6 | 1 11 | 17 22 | 0 33 | 2 16 | 2 20 | 23 42 | 0 15 | 23 3 | 0 39 | 16 49 | 4 48 | 20 8 | 20 22 | 9 24 | | | n.a. |
| S 4 | 15 0 | 26 36 | 3 49 | 17 22 | 0 26 | 7 55 | 1 5 | 24 10 | 1 11 | 17 26 | 0 33 | 2 19 | 2 20 | 23 43 | 0 15 | 23 3 | 0 39 | 16 50 | 4 48 | 20 8 | 20 21 | 9 27 | | | n.a. |
| M 5 | 15 18 | 25 5 | 4 34 | 16 59 | 0 43 | 7 38 | 0 52 | 24 14 | 1 11 | 17 30 | 0 33 | 2 22 | 2 20 | 23 43 | 0 15 | 23 3 | 0 38 | 16 50 | 4 47 | 20 8 | 20 21 | 9 30 | | | n.a. |
| T 6 | 15 36 | 22 15 | 5 2 | 16 35 | 1 1 | 7 22 | 0 39 | 24 18 | 1 11 | 17 34 | 0 33 | 2 24 | 2 20 | 23 43 | 0 15 | 23 3 | 0 38 | 16 50 | 4 47 | 20 8 | 20 20 | 9 33 | | | n.a. |
| W 7 | 15 54 | 18 26 | 5 15 | 16 11 | 1 18 | 7 8 | 0 27 | 24 21 | 1 11 | 17 37 | 0 33 | 2 27 | 2 20 | 23 43 | 0 15 | 23 3 | 0 38 | 16 51 | 4 47 | 20 8 | 20 19 | 9 36 | | | n.a. |
| T 8 | 16 11 | 13 54 | 5 13 | 15 45 | 1 35 | 6 54 | 0 15 | 24 25 | 1 11 | 17 41 | 0 32 | 2 30 | 2 20 | 23 43 | 0 15 | 23 3 | 0 38 | 16 51 | 4 47 | 20 8 | 20 19 | 9 39 | | | n.a. |
| F 9 | 16 28 | 8 54 | 4 57 | 15 20 | 1 51 | 6 42 | 0 3 | 24 28 | 1 11 | 17 45 | 0 32 | 2 32 | 2 21 | 23 43 | 0 15 | 23 3 | 0 38 | 16 51 | 4 47 | 20 8 | 20 18 | 9 42 | | | n.a. |
| S 10 | 16 45 | 3 39 | 4 28 | 14 55 | 2 8 | 6 31 | 0s 9 | 24 31 | 1 11 | 17 49 | 0 32 | 2 35 | 2 21 | 23 44 | 0 15 | 23 3 | 0 38 | 16 52 | 4 47 | 20 7 | 20 17 | 9 46 | | | n.a. |
| S 11 | 17 2 | 1s42 | 3 47 | 14 31 | 2 23 | 6 21 | 0 20 | 24 34 | 1 11 | 17 52 | 0 32 | 2 37 | 2 21 | 23 44 | 0 15 | 23 3 | 0 38 | 16 52 | 4 47 | 20 7 | 20 17 | 9 49 | | | n.a. |
| M12 | 17 18 | 6 58 | 2 57 | 14 7 | 2 38 | 6 13 | 0 31 | 24 36 | 1 11 | 17 56 | 0 32 | 2 40 | 2 21 | 23 44 | 0 15 | 23 3 | 0 38 | 16 52 | 4 47 | 20 7 | 20 16 | 9 52 | | | n.a. |
| T 13 | 17 34 | 11 59 | 2 0 | 13 44 | 2 52 | 6 5 | 0 41 | 24 39 | 1 11 | 18 0 | 0 32 | 2 43 | 2 21 | 23 44 | 0 15 | 23 3 | 0 38 | 16 53 | 4 47 | 20 6 | 20 15 | 9 55 | | | n.a. |
| W14 | 17 50 | 16 36 | 0 57 | 13 23 | 3 5 | 5 59 | 0 51 | 24 41 | 1 12 | 18 3 | 0 32 | 2 45 | 2 21 | 23 44 | 0 15 | 23 3 | 0 38 | 16 53 | 4 47 | 20 6 | 20 14 | 9 58 | | | n.a. |
| T 15 | 18 5 | 20 35 | 0s 9 | 13 3 | 3 16 | 5 54 | 1 1 | 24 43 | 1 12 | 18 7 | 0 32 | 2 48 | 2 21 | 23 45 | 0 15 | 23 3 | 0 38 | 16 53 | 4 47 | 20 6 | 20 14 | 10 1 | | | n.a. |
| F 16 | 18 21 | 23 45 | 1 15 | 12 45 | 3 27 | 5 50 | 1 10 | 24 45 | 1 12 | 18 10 | 0 32 | 2 50 | 2 21 | 23 45 | 0 15 | 23 4 | 0 38 | 16 54 | 4 46 | 20 6 | 20 13 | 10 4 | | | n.a. |
| S 17 | 18 35 | 25 53 | 2 18 | 12 29 | 3 36 | 5 48 | 1 19 | 24 47 | 1 12 | 18 14 | 0 32 | 2 53 | 2 22 | 23 45 | 0 15 | 23 4 | 0 38 | 16 54 | 4 46 | 20 6 | 20 12 | 10 7 | | | n.a. |
| S 18 | 18 50 | 26 47 | 3 16 | 12 15 | 3 45 | 5 46 | 1 28 | 24 49 | 1 12 | 18 18 | 0 31 | 2 55 | 2 22 | 23 45 | 0 15 | 23 4 | 0 38 | 16 54 | 4 46 | 20 6 | 20 12 | 10 10 | | | n.a. |
| M19 | 19 4 | 26 21 | 4 5 | 12 4 | 3 51 | 5 45 | 1 36 | 24 50 | 1 12 | 18 21 | 0 31 | 2 57 | 2 22 | 23 45 | 0 15 | 23 4 | 0 38 | 16 54 | 4 46 | 20 7 | 20 11 | 10 13 | | | n.a. |
| T 20 | 19 18 | 24 31 | 4 44 | 11 54 | 3 57 | 5 46 | 1 44 | 24 51 | 1 12 | 18 25 | 0 31 | 3 0 | 2 22 | 23 45 | 0 15 | 23 4 | 0 38 | 16 55 | 4 46 | 20 7 | 20 10 | 10 16 | | | n.a. |
| W21 | 19 32 | 21 22 | 5 9 | 11 48 | 4 1 | 5 47 | 1 52 | 24 52 | 1 12 | 18 28 | 0 31 | 3 2 | 2 22 | 23 46 | 0 15 | 23 4 | 0 38 | 16 55 | 4 46 | 20 7 | 20 10 | 10 19 | | | n.a. |
| T 22 | 19 45 | 17 2 | 5 18 | 11 44 | 4 4 | 5 49 | 1 59 | 24 53 | 1 12 | 18 32 | 0 31 | 3 5 | 2 22 | 23 46 | 0 15 | 23 4 | 0 38 | 16 55 | 4 46 | 20 7 | 20 9 | 10 22 | | | n.a. |
| F 23 | 19 58 | 11 43 | 5 9 | 11 42 | 4 6 | 5 53 | 2 6 | 24 54 | 1 12 | 18 35 | 0 31 | 3 7 | 2 23 | 23 46 | 0 15 | 23 4 | 0 38 | 16 56 | 4 46 | 20 7 | 20 8 | 10 25 | | | n.a. |
| S 24 | 20 11 | 5 40 | 4 41 | 11 44 | 4 6 | 5 57 | 2 12 | 24 54 | 1 12 | 18 39 | 0 31 | 3 9 | 2 23 | 23 46 | 0 15 | 23 4 | 0 38 | 16 56 | 4 46 | 20 7 | 20 7 | 10 28 | | | n.a. |
| S 25 | 20 24 | 0n50 | 3 55 | 11 47 | 4 6 | 6 2 | 2 18 | 24 54 | 1 12 | 18 42 | 0 31 | 3 11 | 2 23 | 23 46 | 0 15 | 23 4 | 0 38 | 16 56 | 4 46 | 20 7 | 20 7 | 10 31 | | | n.a. |
| M26 | 20 36 | 7 26 | 2 53 | 11 53 | 4 4 | 6 8 | 2 24 | 24 54 | 1 12 | 18 46 | 0 31 | 3 14 | 2 23 | 23 47 | 0 15 | 23 4 | 0 38 | 16 57 | 4 46 | 20 7 | 20 6 | 10 34 | | | n.a. |
| T 27 | 20 47 | 13 42 | 1 38 | 12 2 | 4 1 | 6 14 | 2 30 | 24 54 | 1 12 | 18 49 | 0 31 | 3 16 | 2 23 | 23 47 | 0 15 | 23 4 | 0 38 | 16 57 | 4 46 | 20 7 | 20 5 | 10 37 | | | n.a. |
| W28 | 20 59 | 19 11 | 0 16 | 12 13 | 3 57 | 6 22 | 2 35 | 24 54 | 1 12 | 18 52 | 0 31 | 3 18 | 2 23 | 23 47 | 0 16 | 23 4 | 0 38 | 16 57 | 4 46 | 20 7 | 20 5 | 10 40 | | | n.a. |
| T 29 | 21 10 | 23 24 | 1n 6 | 12 26 | 3 52 | 6 30 | 2 40 | 24 54 | 1 12 | 18 56 | 0 30 | 3 20 | 2 24 | 23 47 | 0 16 | 23 4 | 0 38 | 16 58 | 4 46 | 20 7 | 20 4 | 10 43 | | | n.a. |
| F 30 | 21 20 | 26 1 | 2 23 | 12 41 | 3 47 | 6 38 | 2 45 | 24 53 | 1 12 | 18 59 | 0 30 | 3 22 | 2 24 | 23 47 | 0 16 | 23 4 | 0 38 | 16 58 | 4 45 | 20 7 | 20 3 | 10 46 | | | n.a. |
| S 31 | 21n31 | 26n48 | 3n29 | 12n58 | 3s40 | 6n48 | 2s49 | 24n52 | 1n12 | 19n 2 | 0s30 | 3n24 | 2s24 | 23n48 | 0n16 | 23n 4 | 0s38 | 16n58 | 4s45 | 20n 7 | 20n 2 | 10s49 | | | n.a. |

Julian Day Number = 1698167.5, Delta T = 03h06m57s
Ecliptic obliquity = 23°42'15, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°56'35, Lahiri = - 4°49'34 Julian Calendar 1 May 64 BCE == Greg. Calendar 29 Apr. 064 BCE

The year -63 astronomical counting style corresponds to year 064 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 64 BCE
# geocentric

## JUNE 64 BCE (-63) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 26 54 | 6♊45'21 | 23♋53 | 15♉35 | 24♈38 | 3♋51 | 26♉30 | 14♈11 | 23♊24 | 29♊ 1 | 6♊40 | 28°R46 | 28♉26 | 3♏44 | n.a. | S 1 |
| M 2 | 16 30 50 | 7°42'29 | 7♌25 | 16°22 | 25°16 | 4°29 | 26°43 | 14°16 | 23°27 | 29° 3 | 6°42 | 28♉45 | 28°23 | 3°50 | n.a. | M 2 |
| T 3 | 16 34 47 | 8°39'36 | 20°32 | 17°14 | 25°56 | 5° 7 | 26°57 | 14°22 | 23°31 | 29° 5 | 6°43 | 28°45 | 28°19 | 3°57 | n.a. | T 3 |
| W 4 | 16 38 43 | 9°36'44 | 3♍16 | 18°10 | 26°37 | 5°44 | 27°11 | 14°28 | 23°34 | 29° 7 | 6°45 | 28°44 | 28°16 | 4° 4 | n.a. | W 4 |
| T 5 | 16 42 40 | 10°33'51 | 15°40 | 19°10 | 27°19 | 6°22 | 27°24 | 14°33 | 23°38 | 29° 9 | 6°46 | 28°D44 | 28°13 | 4°10 | n.a. | T 5 |
| F 6 | 16 46 37 | 11°30'57 | 27°48 | 20°14 | 28° 1 | 6°59 | 27°38 | 14°39 | 23°42 | 29°11 | 6°48 | 28°44 | 28°10 | 4°17 | n.a. | F 6 |
| S 7 | 16 50 33 | 12°28'04 | 9♎46 | 21°23 | 28°45 | 7°37 | 27°51 | 14°44 | 23°45 | 29°13 | 6°49 | 28°45 | 28° 7 | 4°24 | n.a. | S 7 |
| S 8 | 16 54 30 | 13°25'11 | 21°36 | 22°36 | 29°30 | 8°14 | 28° 5 | 14°49 | 23°49 | 29°15 | 6°50 | 28°47 | 28° 3 | 4°30 | n.a. | S 8 |
| M 9 | 16 58 26 | 14°22'17 | 3♏25 | 23°52 | 0♉15 | 8°52 | 28°18 | 14°54 | 23°52 | 29°18 | 6°52 | 28°48 | 28° 0 | 4°37 | n.a. | M 9 |
| T 10 | 17 2 23 | 15°19'24 | 15°15 | 25°13 | 1° 1 | 9°30 | 28°32 | 14°59 | 23°56 | 29°20 | 6°53 | 28°49 | 27°57 | 4°44 | n.a. | T 10 |
| W11 | 17 6 19 | 16°16'31 | 27° 9 | 26°38 | 1°49 | 10° 7 | 28°45 | 15° 5 | 24° 0 | 29°22 | 6°55 | 28°R50 | 27°54 | 4°50 | n.a. | W11 |
| T 12 | 17 10 16 | 17°13'38 | 9♐11 | 28° 7 | 2°36 | 10°45 | 28°58 | 15°10 | 24° 3 | 29°24 | 6°56 | 28°49 | 27°51 | 4°57 | n.a. | T 12 |
| F 13 | 17 14 12 | 18°10'46 | 21°22 | 29°40 | 3°25 | 11°23 | 29°12 | 15°14 | 24° 7 | 29°26 | 6°58 | 28°48 | 27°48 | 5° 3 | n.a. | F 13 |
| S 14 | 17 18 9 | 19° 7'54 | 3♑45 | 1♊16 | 4°14 | 12° 0 | 29°25 | 15°19 | 24°11 | 29°29 | 6°59 | 28°46 | 27°44 | 5°10 | n.a. | S 14 |
| S 15 | 17 22 6 | 20° 5'02 | 16°19 | 2°56 | 5° 4 | 12°38 | 29°38 | 15°24 | 24°14 | 29°31 | 7° 1 | 28°43 | 27°41 | 5°17 | n.a. | S 15 |
| M16 | 17 26 2 | 21° 2'11 | 29° 7 | 4°40 | 5°55 | 13°16 | 29°52 | 15°29 | 24°18 | 29°33 | 7° 2 | 28°40 | 27°38 | 5°23 | n.a. | M16 |
| T 17 | 17 29 59 | 21°59'21 | 12♒ 9 | 6°26 | 6°46 | 13°53 | 0♊ 5 | 15°33 | 24°21 | 29°35 | 7° 4 | 28°36 | 27°35 | 5°30 | n.a. | T 17 |
| W18 | 17 33 55 | 22°56'31 | 25°25 | 8°16 | 7°38 | 14°31 | 0°18 | 15°38 | 24°25 | 29°37 | 7° 5 | 28°34 | 27°32 | 5°37 | n.a. | W18 |
| T 19 | 17 37 52 | 23°53'42 | 8♓57 | 10° 9 | 8°31 | 15° 9 | 0°31 | 15°42 | 24°29 | 29°40 | 7° 6 | 28°32 | 27°29 | 5°43 | n.a. | T 19 |
| F 20 | 17 41 48 | 24°50'53 | 22°43 | 12° 5 | 9°24 | 15°47 | 0°44 | 15°47 | 24°32 | 29°42 | 7° 8 | 28°D31 | 27°25 | 5°50 | n.a. | F 20 |
| S 21 | 17 45 45 | 25°48'06 | 6♈44 | 14° 3 | 10°18 | 16°24 | 0°57 | 15°51 | 24°36 | 29°44 | 7° 9 | 28°31 | 27°22 | 5°57 | n.a. | S 21 |
| S 22 | 17 49 42 | 26°45'20 | 21° 0 | 16° 3 | 11°12 | 17° 2 | 1°10 | 15°55 | 24°40 | 29°46 | 7°11 | 28°33 | 27°19 | 6° 3 | n.a. | S 22 |
| M23 | 17 53 38 | 27°42'34 | 5♉27 | 18° 5 | 12° 7 | 17°40 | 1°23 | 15°59 | 24°43 | 29°48 | 7°12 | 28°34 | 27°16 | 6°10 | n.a. | M23 |
| T 24 | 17 57 35 | 28°39'50 | 20° 3 | 20° 9 | 13° 2 | 18°18 | 1°36 | 16° 3 | 24°47 | 29°51 | 7°13 | 28°35 | 27°13 | 6°17 | n.a. | T 24 |
| W25 | 18 1 31 | 29°37'07 | 4♊43 | 22°14 | 13°58 | 18°55 | 1°49 | 16° 7 | 24°51 | 29°53 | 7°15 | 28°R35 | 27° 9 | 6°23 | n.a. | W25 |
| T 26 | 18 5 28 | 0♋34'24 | 19°21 | 24°20 | 14°55 | 19°33 | 2° 2 | 16°11 | 24°54 | 29°55 | 7°16 | 28°34 | 27° 6 | 6°30 | n.a. | T 26 |
| F 27 | 18 9 24 | 1°31'43 | 3♋51 | 26°26 | 15°51 | 20°11 | 2°15 | 16°15 | 24°58 | 29°57 | 7°18 | 28°31 | 27° 3 | 6°37 | n.a. | F 27 |
| S 28 | 18 13 21 | 2°29'02 | 18° 6 | 28°33 | 16°48 | 20°49 | 2°28 | 16°18 | 25° 2 | 29°59 | 7°19 | 28°27 | 27° 0 | 6°43 | n.a. | S 28 |
| S 29 | 18 17 17 | 3°26'22 | 2♌ 2 | 0♋39 | 17°46 | 21°27 | 2°40 | 16°22 | 25° 5 | 0♋ 2 | 7°20 | 28°21 | 26°57 | 6°50 | n.a. | S 29 |
| M30 | 18 21 14 | 4♋23'43 | 15♌34 | 2♋46 | 18♉44 | 22♋ 5 | 2♊53 | 16♈25 | 25♊ 9 | 0♋ 4 | 7♊22 | 28♉16 | 26♉54 | 6♏57 | n.a. | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21n41 | 25n50 | 4n20 | 13n18 | 3s33 | 6n58 | 2s53 | 24n51 | 1n12 | 19n 6 | 0s30 | 3n27 | 2s24 | 23n48 | 0n16 | 23n 4 | 0s38 | 16n58 | 4s45 | 20n 6 | 20n 2 | 10s52 | | n.a. |
| M 2 | 21 50 | 23 22 | 4 55 | 13 39 | 3 25 | 7 8 | 2 57 | 24 50 | 1 12 | 19 9 | 0 30 | 3 29 | 2 24 | 23 48 | 0 16 | 23 4 | 0 38 | 16 59 | 4 45 | 20 6 | 20 1 | 10 55 | | n.a. |
| T 3 | 21 59 | 19 45 | 5 14 | 14 2 | 3 16 | 7 20 | 3 0 | 24 49 | 1 12 | 19 12 | 0 30 | 3 31 | 2 24 | 23 48 | 0 16 | 23 4 | 0 38 | 16 59 | 4 45 | 20 6 | 20 0 | 10 58 | | n.a. |
| W 4 | 22 8 | 15 19 | 5 16 | 14 26 | 3 7 | 7 31 | 3 4 | 24 47 | 1 12 | 19 16 | 0 30 | 3 33 | 2 25 | 23 48 | 0 16 | 23 4 | 0 38 | 16 59 | 4 45 | 20 6 | 20 0 | 11 1 | | n.a. |
| T 5 | 22 17 | 10 22 | 5 3 | 14 52 | 2 57 | 7 43 | 3 7 | 24 45 | 1 12 | 19 19 | 0 30 | 3 35 | 2 25 | 23 48 | 0 16 | 23 4 | 0 38 | 17 0 | 4 45 | 20 6 | 19 59 | 11 4 | | n.a. |
| F 6 | 22 25 | 5 7 | 4 37 | 15 20 | 2 46 | 7 56 | 3 10 | 24 43 | 1 12 | 19 22 | 0 30 | 3 36 | 2 25 | 23 49 | 0 16 | 23 4 | 0 38 | 17 0 | 4 45 | 20 6 | 19 58 | 11 7 | | n.a. |
| S 7 | 22 32 | 0s15 | 3 59 | 15 48 | 2 35 | 8 9 | 3 12 | 24 41 | 1 12 | 19 25 | 0 30 | 3 38 | 2 25 | 23 49 | 0 16 | 23 4 | 0 38 | 17 0 | 4 45 | 20 6 | 19 57 | 11 10 | | n.a. |
| S 8 | 22 40 | 5 33 | 3 12 | 16 18 | 2 24 | 8 23 | 3 15 | 24 39 | 1 12 | 19 28 | 0 30 | 3 40 | 2 25 | 23 49 | 0 16 | 23 4 | 0 38 | 17 0 | 4 45 | 20 6 | 19 57 | 11 13 | | n.a. |
| M 9 | 22 47 | 10 40 | 2 16 | 16 49 | 2 12 | 8 37 | 3 17 | 24 36 | 1 12 | 19 31 | 0 30 | 3 42 | 2 26 | 23 49 | 0 16 | 23 4 | 0 38 | 17 1 | 4 45 | 20 7 | 19 56 | 11 16 | | n.a. |
| T 10 | 22 53 | 15 24 | 1 14 | 17 20 | 2 0 | 8 51 | 3 19 | 24 34 | 1 12 | 19 34 | 0 29 | 3 44 | 2 26 | 23 49 | 0 16 | 23 4 | 0 38 | 17 1 | 4 45 | 20 7 | 19 55 | 11 19 | | n.a. |
| W11 | 22 59 | 19 35 | 0 9 | 17 52 | 1 48 | 9 6 | 3 21 | 24 31 | 1 12 | 19 37 | 0 29 | 3 46 | 2 26 | 23 50 | 0 16 | 23 4 | 0 38 | 17 1 | 4 45 | 20 7 | 19 55 | 11 22 | | n.a. |
| T 12 | 23 5 | 23 1 | 0s57 | 18 24 | 1 36 | 9 21 | 3 22 | 24 28 | 1 12 | 19 40 | 0 29 | 3 47 | 2 26 | 23 50 | 0 16 | 23 5 | 0 38 | 17 2 | 4 45 | 20 7 | 19 54 | 11 25 | | n.a. |
| F 13 | 23 10 | 25 26 | 2 1 | 18 57 | 1 23 | 9 36 | 3 24 | 24 25 | 1 12 | 19 43 | 0 29 | 3 49 | 2 26 | 23 50 | 0 16 | 23 5 | 0 38 | 17 2 | 4 45 | 20 7 | 19 53 | 11 28 | | n.a. |
| S 14 | 23 15 | 26 40 | 3 1 | 19 30 | 1 10 | 9 52 | 3 25 | 24 21 | 1 12 | 19 46 | 0 29 | 3 51 | 2 27 | 23 50 | 0 16 | 23 5 | 0 38 | 17 2 | 4 45 | 20 6 | 19 52 | 11 31 | | n.a. |
| S 15 | 23 20 | 26 32 | 3 53 | 20 2 | 0 58 | 10 8 | 3 26 | 24 18 | 1 12 | 19 49 | 0 29 | 3 52 | 2 27 | 23 50 | 0 16 | 23 5 | 0 38 | 17 2 | 4 45 | 20 6 | 19 52 | 11 34 | | n.a. |
| M16 | 23 24 | 25 1 | 4 34 | 20 34 | 0 45 | 10 24 | 3 26 | 24 14 | 1 12 | 19 52 | 0 29 | 3 54 | 2 27 | 23 50 | 0 16 | 23 5 | 0 38 | 17 3 | 4 45 | 20 5 | 19 51 | 11 37 | | n.a. |
| T 17 | 23 28 | 22 9 | 5 1 | 21 5 | 0 33 | 10 40 | 3 27 | 24 10 | 1 12 | 19 55 | 0 29 | 3 56 | 2 27 | 23 51 | 0 16 | 23 5 | 0 38 | 17 3 | 4 45 | 20 4 | 19 50 | 11 40 | | n.a. |
| W18 | 23 31 | 18 6 | 5 14 | 21 36 | 0 20 | 10 57 | 3 27 | 24 6 | 1 12 | 19 58 | 0 29 | 3 57 | 2 28 | 23 51 | 0 16 | 23 5 | 0 38 | 17 3 | 4 45 | 20 4 | 19 50 | 11 43 | | n.a. |
| T 19 | 23 34 | 13 4 | 5 9 | 22 5 | 0 8 | 11 13 | 3 28 | 24 2 | 1 12 | 20 1 | 0 29 | 3 59 | 2 28 | 23 51 | 0 16 | 23 5 | 0 38 | 17 3 | 4 45 | 20 3 | 19 49 | 11 46 | | n.a. |
| F 20 | 23 36 | 7 18 | 4 47 | 22 33 | 0n 3 | 11 30 | 3 28 | 23 57 | 1 12 | 20 4 | 0 29 | 4 0 | 2 28 | 23 51 | 0 16 | 23 5 | 0 38 | 17 4 | 4 45 | 20 3 | 19 48 | 11 49 | | n.a. |
| S 21 | 23 38 | 1 4 | 4 7 | 22 59 | 0 15 | 11 47 | 3 28 | 23 53 | 1 12 | 20 7 | 0 29 | 4 2 | 2 28 | 23 51 | 0 16 | 23 5 | 0 38 | 17 4 | 4 45 | 20 3 | 19 47 | 11 52 | | n.a. |
| S 22 | 23 40 | 5n19 | 3 12 | 23 23 | 0 26 | 12 4 | 3 28 | 23 48 | 1 12 | 20 9 | 0 29 | 4 3 | 2 29 | 23 51 | 0 16 | 23 5 | 0 38 | 17 4 | 4 45 | 20 3 | 19 47 | 11 55 | | n.a. |
| M23 | 23 41 | 11 33 | 2 3 | 23 46 | 0 36 | 12 21 | 3 27 | 23 43 | 1 12 | 20 12 | 0 29 | 4 4 | 2 29 | 23 52 | 0 16 | 23 5 | 0 38 | 17 4 | 4 45 | 20 4 | 19 46 | 11 58 | | n.a. |
| T 24 | 23 42 | 17 12 | 0 47 | 24 6 | 0 46 | 12 39 | 3 27 | 23 38 | 1 12 | 20 15 | 0 28 | 4 6 | 2 29 | 23 52 | 0 16 | 23 5 | 0 37 | 17 5 | 4 45 | 20 4 | 19 45 | 12 1 | | n.a. |
| W25 | 23 42 | 21 52 | 0n34 | 24 23 | 0 55 | 12 56 | 3 26 | 23 32 | 1 12 | 20 17 | 0 28 | 4 7 | 2 29 | 23 52 | 0 16 | 23 5 | 0 37 | 17 5 | 4 45 | 20 4 | 19 44 | 12 4 | | n.a. |
| T 26 | 23 42 | 25 7 | 1 51 | 24 38 | 1 4 | 13 13 | 3 25 | 23 27 | 1 12 | 20 20 | 0 28 | 4 8 | 2 29 | 23 52 | 0 16 | 23 5 | 0 37 | 17 5 | 4 45 | 20 4 | 19 44 | 12 7 | | n.a. |
| F 27 | 23 42 | 26 40 | 3 1 | 24 51 | 1 11 | 13 31 | 3 24 | 23 21 | 1 12 | 20 23 | 0 28 | 4 9 | 2 30 | 23 52 | 0 16 | 23 5 | 0 37 | 17 5 | 4 45 | 20 3 | 19 43 | 12 10 | | n.a. |
| S 28 | 23 41 | 26 23 | 3 58 | 25 0 | 1 18 | 13 48 | 3 23 | 23 15 | 1 12 | 20 25 | 0 28 | 4 11 | 2 30 | 23 52 | 0 16 | 23 5 | 0 37 | 17 6 | 4 45 | 20 2 | 19 42 | 12 13 | | n.a. |
| S 29 | 23 40 | 24 27 | 4 39 | 25 7 | 1 25 | 14 5 | 3 22 | 23 9 | 1 12 | 20 28 | 0 28 | 4 12 | 2 30 | 23 52 | 0 16 | 23 5 | 0 37 | 17 6 | 4 45 | 20 1 | 19 41 | 12 16 | | n.a. |
| M30 | 23n38 | 21n10 | 5n 4 | 25n11 | 1n30 | 14n23 | 3s21 | 23n 3 | 1n12 | 20n30 | 0s28 | 4n13 | 2s30 | 23n53 | 0n16 | 23n 5 | 0s37 | 17n 6 | 4s45 | 20n 0 | 19n41 | 12s19 | | n.a. |

Julian Day Number = 1698198.5, Delta T = 03h06m57s
Ecliptic obliquity = 23°42'14, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°56'30, Lahiri = - 4°49'30 Julian Calendar 1 June 64 BCE == Greg. Calendar 30 May 064 BCE

The year -63 astronomical counting style corresponds to year 064 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 64 BCE
# geocentric

## JULY 64 BCE (-63) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 25 11 | 5♋21'04 | 28♌43 | 4♋52 | 19♉43 | 22♋43 | 3♊ 6 | 16♈29 | 25♊12 | 0♋ 6 | 7♊23 | 28°R11 | 26♉50 | 7♏ 3 | n.a. | T 1 |
| W 2 | 18 29 7 | 6°18'26 | 11♍29 | 6°57 | 20°41 | 23°21 | 3°18 | 16°32 | 25°16 | 0° 9 | 7°24 | 28♉ 7 | 26°47 | 7°10 | n.a. | W 2 |
| T 3 | 18 33 4 | 7°15'49 | 23°54 | 9° 1 | 21°40 | 23°58 | 3°31 | 16°35 | 25°20 | 0°11 | 7°26 | 28° 4 | 26°44 | 7°17 | n.a. | T 3 |
| F 4 | 18 37 0 | 8°13'12 | 6♎ 3 | 11° 5 | 22°40 | 24°36 | 3°43 | 16°38 | 25°23 | 0°13 | 7°27 | 28°D 3 | 26°41 | 7°23 | n.a. | F 4 |
| S 5 | 18 40 57 | 9°10'36 | 18° 0 | 13° 7 | 23°40 | 25°14 | 3°56 | 16°41 | 25°27 | 0°15 | 7°28 | 28° 3 | 26°38 | 7°30 | n.a. | S 5 |
| S 6 | 18 44 53 | 10° 8'01 | 29°51 | 15° 8 | 24°40 | 25°52 | 4° 8 | 16°44 | 25°30 | 0°17 | 7°29 | 28° 5 | 26°35 | 7°37 | n.a. | S 6 |
| M 7 | 18 48 50 | 11° 5'27 | 11♏40 | 17° 7 | 25°41 | 26°30 | 4°20 | 16°47 | 25°34 | 0°20 | 7°31 | 28° 6 | 26°31 | 7°43 | n.a. | M 7 |
| T 8 | 18 52 46 | 12° 2'54 | 23°32 | 19° 5 | 26°42 | 27° 8 | 4°32 | 16°50 | 25°37 | 0°22 | 7°32 | 28°R 7 | 26°28 | 7°50 | n.a. | T 8 |
| W 9 | 18 56 43 | 13° 0'22 | 5♐31 | 21° 2 | 27°43 | 27°46 | 4°44 | 16°52 | 25°41 | 0°24 | 7°33 | 28° 7 | 26°25 | 7°57 | n.a. | W 9 |
| T 10 | 19 0 40 | 13°57'51 | 17°42 | 22°57 | 28°44 | 28°24 | 4°57 | 16°55 | 25°45 | 0°26 | 7°34 | 28° 5 | 26°22 | 8° 3 | n.a. | T 10 |
| F 11 | 19 4 36 | 14°55'21 | 0♑ 6 | 24°51 | 29°46 | 29° 2 | 5° 9 | 16°57 | 25°48 | 0°28 | 7°36 | 28° 1 | 26°19 | 8°10 | n.a. | F 11 |
| S 12 | 19 8 33 | 15°52'52 | 12°45 | 26°44 | 0♊48 | 29°40 | 5°20 | 17° 0 | 25°52 | 0°31 | 7°37 | 27°55 | 26°15 | 8°17 | n.a. | S 12 |
| S 13 | 19 12 29 | 16°50'25 | 25°40 | 28°34 | 1°51 | 0♌19 | 5°32 | 17° 2 | 25°55 | 0°33 | 7°38 | 27°48 | 26°12 | 8°23 | n.a. | S 13 |
| M14 | 19 16 26 | 17°47'59 | 8♒50 | 0♌24 | 2°53 | 0°57 | 5°44 | 17° 4 | 25°58 | 0°35 | 7°39 | 27°39 | 26° 9 | 8°30 | n.a. | M14 |
| T 15 | 19 20 22 | 18°45'34 | 22°14 | 2°12 | 3°56 | 1°35 | 5°56 | 17° 6 | 26° 2 | 0°37 | 7°40 | 27°31 | 26° 6 | 8°36 | n.a. | T 15 |
| W16 | 19 24 19 | 19°43'10 | 5♓50 | 3°58 | 5° 0 | 2°13 | 6° 8 | 17° 8 | 26° 5 | 0°39 | 7°42 | 27°23 | 26° 3 | 8°43 | n.a. | W16 |
| T 17 | 19 28 16 | 20°40'49 | 19°36 | 5°43 | 6° 3 | 2°51 | 6°19 | 17°10 | 26° 9 | 0°41 | 7°43 | 27°18 | 26° 0 | 8°50 | n.a. | T 17 |
| F 18 | 19 32 12 | 21°38'28 | 3♈31 | 7°26 | 7° 7 | 3°29 | 6°31 | 17°11 | 26°12 | 0°43 | 7°44 | 27°14 | 25°56 | 8°56 | n.a. | F 18 |
| S 19 | 19 36 9 | 22°36'10 | 17°32 | 9° 8 | 8°11 | 4° 7 | 6°42 | 17°13 | 26°16 | 0°45 | 7°45 | 27°D13 | 25°53 | 9° 3 | n.a. | S 19 |
| S 20 | 19 40 5 | 23°33'53 | 1♉39 | 10°49 | 9°15 | 4°46 | 6°53 | 17°15 | 26°19 | 0°48 | 7°46 | 27°13 | 25°50 | 9°10 | n.a. | S 20 |
| M21 | 19 44 2 | 24°31'38 | 15°51 | 12°28 | 10°20 | 5°24 | 7° 5 | 17°16 | 26°22 | 0°50 | 7°47 | 27°14 | 25°47 | 9°16 | n.a. | M21 |
| T 22 | 19 47 58 | 25°29'25 | 0♊ 6 | 14° 5 | 11°25 | 6° 2 | 7°16 | 17°17 | 26°26 | 0°52 | 7°48 | 27°R14 | 25°44 | 9°23 | n.a. | T 22 |
| W23 | 19 51 55 | 26°27'14 | 14°21 | 15°42 | 12°30 | 6°40 | 7°27 | 17°18 | 26°29 | 0°54 | 7°49 | 27°13 | 25°40 | 9°30 | n.a. | W23 |
| T 24 | 19 55 51 | 27°25'05 | 28°34 | 17°17 | 13°35 | 7°19 | 7°38 | 17°20 | 26°32 | 0°56 | 7°50 | 27° 9 | 25°37 | 9°36 | n.a. | T 24 |
| F 25 | 19 59 48 | 28°22'57 | 12♋41 | 18°50 | 14°40 | 7°57 | 7°49 | 17°20 | 26°35 | 0°58 | 7°51 | 27° 3 | 25°34 | 9°43 | n.a. | F 25 |
| S 26 | 20 3 45 | 29°20'51 | 26°37 | 20°22 | 15°46 | 8°35 | 8° 0 | 17°21 | 26°39 | 1° 0 | 7°52 | 26°55 | 25°31 | 9°50 | n.a. | S 26 |
| S 27 | 20 7 41 | 0♌18'47 | 10♌19 | 21°53 | 16°52 | 9°14 | 8°11 | 17°22 | 26°42 | 1° 2 | 7°53 | 26°45 | 25°28 | 9°56 | n.a. | S 27 |
| M28 | 20 11 38 | 1°16'44 | 23°42 | 23°22 | 17°58 | 9°52 | 8°21 | 17°23 | 26°45 | 1° 4 | 7°54 | 26°34 | 25°25 | 10° 3 | n.a. | M28 |
| T 29 | 20 15 34 | 2°14'43 | 6♍45 | 24°50 | 19° 4 | 10°30 | 8°32 | 17°23 | 26°48 | 1° 6 | 7°55 | 26°23 | 25°21 | 10°10 | n.a. | T 29 |
| W30 | 20 19 31 | 3°12'43 | 19°28 | 26°16 | 20°10 | 11° 9 | 8°42 | 17°24 | 26°51 | 1° 8 | 7°56 | 26°15 | 25°18 | 10°16 | n.a. | W30 |
| T 31 | 20 23 27 | 4♌10'45 | 1♎52 | 27♌41 | 21♊17 | 11♌47 | 8♊53 | 17♈24 | 26♊54 | 1♋10 | 7♊57 | 26♉ 8 | 25♉15 | 10♏23 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat | |
| T 1 | 23n36 | 16n54 | 5n11 | 25n12 | 1n35 | 14n40 | 3s19 | 22n57 | 1n12 | 20n33 | 0s28 | 4n14 | 2s31 | 23n53 | 0n16 | 23n 5 | 0s37 | 17n 6 | 4s45 | 19n58 | 19n40 | 12s22 | | | n.a. | T 1 |
| W 2 | 23 33 | 11 59 | 5 3 | 25 10 | 1 39 | 14 57 | 3 18 | 22 50 | 1 11 | 20 35 | 0 28 | 4 15 | 2 31 | 23 53 | 0 16 | 23 5 | 0 37 | 17 6 | 4 45 | 19 57 | 19 39 | 12 25 | | | n.a. | W 2 |
| T 3 | 23 30 | 6 44 | 4 40 | 25 6 | 1 42 | 15 14 | 3 16 | 22 43 | 1 11 | 20 38 | 0 28 | 4 16 | 2 31 | 23 53 | 0 16 | 23 5 | 0 37 | 17 7 | 4 45 | 19 57 | 19 38 | 12 28 | | | n.a. | T 3 |
| F 4 | 23 27 | 1 19 | 4 6 | 24 59 | 1 45 | 15 31 | 3 14 | 22 36 | 1 11 | 20 40 | 0 28 | 4 17 | 2 31 | 23 53 | 0 16 | 23 5 | 0 37 | 17 7 | 4 45 | 19 57 | 19 38 | 12 31 | | | n.a. | F 4 |
| S 5 | 23 23 | 4s 3 | 3 21 | 24 49 | 1 47 | 15 48 | 3 12 | 22 29 | 1 11 | 20 43 | 0 28 | 4 18 | 2 32 | 23 53 | 0 16 | 23 5 | 0 37 | 17 7 | 4 45 | 19 57 | 19 37 | 12 34 | | | n.a. | S 5 |
| S 6 | 23 19 | 9 15 | 2 27 | 24 37 | 1 48 | 16 4 | 3 10 | 22 22 | 1 11 | 20 45 | 0 28 | 4 19 | 2 32 | 23 53 | 0 16 | 23 5 | 0 37 | 17 7 | 4 45 | 19 57 | 19 36 | 12 37 | | | n.a. | S 6 |
| M 7 | 23 14 | 14 6 | 1 28 | 24 23 | 1 48 | 16 21 | 3 8 | 22 15 | 1 11 | 20 47 | 0 28 | 4 20 | 2 32 | 23 54 | 0 16 | 23 5 | 0 37 | 17 7 | 4 45 | 19 57 | 19 36 | 12 40 | | | n.a. | M 7 |
| T 8 | 23 9 | 18 28 | 0 25 | 24 7 | 1 48 | 16 37 | 3 6 | 22 7 | 1 11 | 20 50 | 0 28 | 4 20 | 2 33 | 23 54 | 0 16 | 23 5 | 0 37 | 17 8 | 4 45 | 19 58 | 19 35 | 12 43 | | | n.a. | T 8 |
| W 9 | 23 4 | 22 7 | 0s40 | 23 49 | 1 48 | 16 53 | 3 3 | 22 0 | 1 11 | 20 52 | 0 28 | 4 21 | 2 33 | 23 54 | 0 16 | 23 5 | 0 37 | 17 8 | 4 45 | 19 58 | 19 34 | 12 46 | | | n.a. | W 9 |
| T 10 | 22 58 | 24 51 | 1 44 | 23 28 | 1 46 | 17 9 | 3 1 | 21 52 | 1 11 | 20 54 | 0 28 | 4 22 | 2 33 | 23 54 | 0 16 | 23 5 | 0 37 | 17 8 | 4 45 | 19 57 | 19 33 | 12 49 | | | n.a. | T 10 |
| F 11 | 22 51 | 26 26 | 2 44 | 23 6 | 1 44 | 17 25 | 2 59 | 21 44 | 1 11 | 20 57 | 0 27 | 4 23 | 2 33 | 23 54 | 0 16 | 23 5 | 0 37 | 17 8 | 4 45 | 19 56 | 19 33 | 12 52 | | | n.a. | F 11 |
| S 12 | 22 45 | 26 41 | 3 37 | 22 43 | 1 42 | 17 41 | 2 56 | 21 36 | 1 11 | 20 59 | 0 27 | 4 23 | 2 34 | 23 54 | 0 16 | 23 5 | 0 37 | 17 8 | 4 45 | 19 55 | 19 32 | 12 55 | | | n.a. | S 12 |
| S 13 | 22 38 | 25 30 | 4 20 | 22 17 | 1 39 | 17 56 | 2 53 | 21 27 | 1 11 | 21 1 | 0 27 | 4 24 | 2 34 | 23 54 | 0 16 | 23 5 | 0 37 | 17 9 | 4 45 | 19 53 | 19 31 | 12 58 | | | n.a. | S 13 |
| M14 | 22 30 | 22 55 | 4 50 | 21 51 | 1 36 | 18 11 | 2 51 | 21 19 | 1 10 | 21 3 | 0 27 | 4 24 | 2 34 | 23 54 | 0 16 | 23 5 | 0 37 | 17 9 | 4 45 | 19 51 | 19 30 | 13 1 | | | n.a. | M14 |
| T 15 | 22 22 | 19 3 | 5 5 | 21 23 | 1 32 | 18 25 | 2 48 | 21 10 | 1 10 | 21 5 | 0 27 | 4 25 | 2 34 | 23 55 | 0 16 | 23 5 | 0 37 | 17 9 | 4 45 | 19 49 | 19 29 | 13 4 | | | n.a. | T 15 |
| W16 | 22 14 | 14 9 | 5 3 | 20 54 | 1 28 | 18 40 | 2 45 | 21 1 | 1 10 | 21 7 | 0 27 | 4 25 | 2 35 | 23 55 | 0 16 | 23 5 | 0 37 | 17 9 | 4 45 | 19 48 | 19 29 | 13 7 | | | n.a. | W16 |
| T 17 | 22 6 | 8 30 | 4 44 | 20 24 | 1 23 | 18 54 | 2 42 | 20 52 | 1 10 | 21 9 | 0 27 | 4 26 | 2 35 | 23 55 | 0 16 | 23 5 | 0 37 | 17 9 | 4 45 | 19 46 | 19 28 | 13 10 | | | n.a. | T 17 |
| F 18 | 21 57 | 2 22 | 4 8 | 19 52 | 1 18 | 19 8 | 2 39 | 20 43 | 1 10 | 21 11 | 0 27 | 4 26 | 2 35 | 23 55 | 0 16 | 23 5 | 0 37 | 17 9 | 4 45 | 19 46 | 19 27 | 13 12 | | | n.a. | F 18 |
| S 19 | 21 47 | 3n56 | 3 16 | 19 20 | 1 13 | 19 21 | 2 36 | 20 34 | 1 10 | 21 13 | 0 27 | 4 27 | 2 35 | 23 55 | 0 16 | 23 5 | 0 37 | 17 10 | 4 45 | 19 45 | 19 26 | 13 15 | | | n.a. | S 19 |
| S 20 | 21 37 | 10 6 | 2 13 | 18 47 | 1 7 | 19 34 | 2 33 | 20 25 | 1 10 | 21 15 | 0 27 | 4 27 | 2 36 | 23 55 | 0 16 | 23 5 | 0 37 | 17 10 | 4 45 | 19 45 | 19 26 | 13 18 | | | n.a. | S 20 |
| M21 | 21 27 | 15 48 | 1 1 | 18 13 | 1 1 | 19 47 | 2 29 | 20 15 | 1 10 | 21 17 | 0 27 | 4 27 | 2 36 | 23 55 | 0 16 | 23 5 | 0 37 | 17 10 | 4 45 | 19 45 | 19 25 | 13 21 | | | n.a. | M21 |
| T 22 | 21 17 | 20 39 | 0n15 | 17 39 | 0 55 | 19 59 | 2 26 | 20 6 | 1 9 | 21 19 | 0 27 | 4 27 | 2 36 | 23 55 | 0 16 | 23 5 | 0 37 | 17 10 | 4 45 | 19 45 | 19 24 | 13 24 | | | n.a. | T 22 |
| W23 | 21 6 | 24 16 | 1 30 | 17 4 | 0 48 | 20 11 | 2 23 | 19 56 | 1 9 | 21 21 | 0 27 | 4 28 | 2 37 | 23 55 | 0 16 | 23 5 | 0 37 | 17 10 | 4 45 | 19 45 | 19 23 | 13 27 | | | n.a. | W23 |
| T 24 | 20 54 | 26 21 | 2 39 | 16 29 | 0 41 | 20 23 | 2 19 | 19 46 | 1 9 | 21 23 | 0 27 | 4 28 | 2 37 | 23 56 | 0 16 | 23 5 | 0 37 | 17 10 | 4 45 | 19 44 | 19 23 | 13 30 | | | n.a. | T 24 |
| F 25 | 20 43 | 26 42 | 3 38 | 15 53 | 0 34 | 20 34 | 2 16 | 19 36 | 1 9 | 21 25 | 0 27 | 4 28 | 2 37 | 23 56 | 0 16 | 23 5 | 0 37 | 17 10 | 4 45 | 19 43 | 19 22 | 13 33 | | | n.a. | F 25 |
| S 26 | 20 31 | 25 21 | 4 22 | 15 17 | 0 27 | 20 44 | 2 12 | 19 25 | 1 9 | 21 27 | 0 27 | 4 28 | 2 37 | 23 56 | 0 16 | 23 5 | 0 37 | 17 11 | 4 45 | 19 41 | 19 21 | 13 36 | | | n.a. | S 26 |
| S 27 | 20 18 | 22 31 | 4 51 | 14 40 | 0 19 | 20 55 | 2 9 | 19 15 | 1 9 | 21 29 | 0 27 | 4 28 | 2 38 | 23 56 | 0 16 | 23 5 | 0 37 | 17 11 | 4 45 | 19 39 | 19 20 | 13 39 | | | n.a. | S 27 |
| M28 | 20 6 | 18 31 | 5 3 | 14 3 | 0 11 | 21 4 | 2 5 | 19 4 | 1 9 | 21 30 | 0 27 | 4 28 | 2 38 | 23 56 | 0 16 | 23 5 | 0 37 | 17 11 | 4 45 | 19 36 | 19 20 | 13 42 | | | n.a. | M28 |
| T 29 | 19 53 | 13 44 | 4 58 | 13 26 | 0 3 | 21 14 | 2 2 | 18 54 | 1 9 | 21 32 | 0 27 | 4 28 | 2 38 | 23 56 | 0 16 | 23 5 | 0 37 | 17 11 | 4 45 | 19 34 | 19 19 | 13 45 | | | n.a. | T 29 |
| W30 | 19 39 | 8 29 | 4 39 | 12 49 | 0s 5 | 21 22 | 1 58 | 18 43 | 1 8 | 21 34 | 0 26 | 4 28 | 2 38 | 23 56 | 0 16 | 23 5 | 0 37 | 17 11 | 4 45 | 19 32 | 19 18 | 13 48 | | | n.a. | W30 |
| T 31 | 19n26 | 3n 1 | 4n 7 | 12n12 | 0s13 | 21n31 | 1s54 | 18n32 | 1n 8 | 21n35 | 0s26 | 4n28 | 2s39 | 23n56 | 0n16 | 23n 5 | 0s37 | 17n11 | 4s45 | 19n30 | 19n17 | 13s50 | | | n.a. | T 31 |

Julian Day Number = 1698228.5, Delta T = 03h06m56s
Ecliptic obliquity = 23°42'14, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°56'26, Lahiri = - 4°49'26 Julian Calendar 1 July 64 BCE == Greg. Calendar 29 June 064 BCE

The year -63 astronomical counting style corresponds to year 064 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 64 BCE
# geocentric

## AUGUST 64 BCE (-63) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 20 27 24 | 5♌ 8'48 | 14♎ 0 | 29♌ 5 | 22♊24 | 12♌26 | 9♊ 3 | 17♈24 | 26♊57 | 1♋12 | 7♊58 | 26°R 3 | 25♉12 | 10♏30 | n.a. | F 1 |
| S 2 | 20 31 20 | 6° 6'52 | 25°57 | 0♍27 | 23°31 | 13° 4 | 9°13 | 17°R24 | 27° 0 | 1°14 | 7°59 | 26♉ 1 | 25° 9 | 10°36 | n.a. | S 2 |
| S 3 | 20 35 17 | 7° 4'59 | 7♏47 | 1°47 | 24°38 | 13°43 | 9°23 | 17°24 | 27° 3 | 1°15 | 8° 0 | 26°D 1 | 25° 6 | 10°43 | n.a. | S 3 |
| M 4 | 20 39 13 | 8° 3'06 | 19°36 | 3° 6 | 25°45 | 14°21 | 9°33 | 17°24 | 27° 6 | 1°17 | 8° 1 | 26°R 1 | 25° 2 | 10°49 | n.a. | M 4 |
| T 5 | 20 43 10 | 9° 1'16 | 1♐29 | 4°23 | 26°53 | 15° 0 | 9°43 | 17°24 | 27° 9 | 1°19 | 8° 1 | 26° 1 | 24°59 | 10°56 | n.a. | T 5 |
| W 6 | 20 47 7 | 9°59'27 | 13°31 | 5°38 | 28° 0 | 15°38 | 9°53 | 17°24 | 27°12 | 1°21 | 8° 2 | 26° 0 | 24°56 | 11° 3 | n.a. | W 6 |
| T 7 | 20 51 3 | 10°57'39 | 25°47 | 6°52 | 29° 8 | 16°17 | 10° 2 | 17°23 | 27°15 | 1°23 | 8° 3 | 25°56 | 24°53 | 11° 9 | n.a. | T 7 |
| F 8 | 20 55 0 | 11°55'54 | 8♑21 | 8° 4 | 0♋16 | 16°56 | 10°12 | 17°23 | 27°18 | 1°25 | 8° 4 | 25°50 | 24°50 | 11°16 | n.a. | F 8 |
| S 9 | 20 58 56 | 12°54'10 | 21°15 | 9°14 | 1°24 | 17°34 | 10°21 | 17°22 | 27°21 | 1°26 | 8° 4 | 25°42 | 24°46 | 11°23 | n.a. | S 9 |
| S 10 | 21 2 53 | 13°52'28 | 4♒29 | 10°22 | 2°33 | 18°13 | 10°31 | 17°21 | 27°24 | 1°28 | 8° 5 | 25°31 | 24°43 | 11°29 | n.a. | S 10 |
| M11 | 21 6 49 | 14°50'47 | 18° 2 | 11°28 | 3°41 | 18°52 | 10°40 | 17°20 | 27°26 | 1°30 | 8° 6 | 25°19 | 24°40 | 11°36 | n.a. | M11 |
| T 12 | 21 10 46 | 15°49'09 | 1♓52 | 12°31 | 4°50 | 19°30 | 10°49 | 17°20 | 27°29 | 1°32 | 8° 7 | 25° 7 | 24°37 | 11°43 | n.a. | T 12 |
| W13 | 21 14 43 | 16°47'32 | 15°54 | 13°32 | 5°58 | 20° 9 | 10°58 | 17°18 | 27°32 | 1°33 | 8° 7 | 24°57 | 24°34 | 11°49 | n.a. | W13 |
| T 14 | 21 18 39 | 17°45'58 | 0♈ 3 | 14°31 | 7° 7 | 20°48 | 11° 7 | 17°17 | 27°34 | 1°35 | 8° 8 | 24°48 | 24°31 | 11°56 | n.a. | T 14 |
| F 15 | 21 22 36 | 18°44'26 | 14°17 | 15°27 | 8°16 | 21°26 | 11°15 | 17°16 | 27°37 | 1°37 | 8° 9 | 24°42 | 24°27 | 12° 3 | n.a. | F 15 |
| S 16 | 21 26 32 | 19°42'56 | 28°29 | 16°20 | 9°26 | 22° 5 | 11°24 | 17°15 | 27°40 | 1°38 | 8° 9 | 24°39 | 24°24 | 12° 9 | n.a. | S 16 |
| S 17 | 21 30 29 | 20°41'28 | 12♉39 | 17°10 | 10°35 | 22°44 | 11°33 | 17°13 | 27°42 | 1°40 | 8°10 | 24°38 | 24°21 | 12°16 | n.a. | S 17 |
| M18 | 21 34 25 | 21°40'03 | 26°46 | 17°57 | 11°45 | 23°23 | 11°41 | 17°11 | 27°45 | 1°42 | 8°10 | 24°38 | 24°18 | 12°23 | n.a. | M18 |
| T 19 | 21 38 22 | 22°38'40 | 10♊47 | 18°40 | 12°54 | 24° 2 | 11°49 | 17°10 | 27°47 | 1°43 | 8°11 | 24°37 | 24°15 | 12°29 | n.a. | T 19 |
| W20 | 21 42 18 | 23°37'19 | 24°42 | 19°19 | 14° 4 | 24°41 | 11°57 | 17° 8 | 27°49 | 1°45 | 8°11 | 24°35 | 24°12 | 12°36 | n.a. | W20 |
| T 21 | 21 46 15 | 24°36'01 | 8♋32 | 19°55 | 15°14 | 25°20 | 12° 5 | 17° 6 | 27°52 | 1°46 | 8°12 | 24°31 | 24° 8 | 12°43 | n.a. | T 21 |
| F 22 | 21 50 11 | 25°34'45 | 22°13 | 20°25 | 16°24 | 25°59 | 12°13 | 17° 4 | 27°54 | 1°48 | 8°12 | 24°23 | 24° 5 | 12°49 | n.a. | F 22 |
| S 23 | 21 54 8 | 26°33'32 | 5♌45 | 20°51 | 17°34 | 26°38 | 12°21 | 17° 2 | 27°57 | 1°49 | 8°13 | 24°13 | 24° 2 | 12°56 | n.a. | S 23 |
| S 24 | 21 58 5 | 27°32'20 | 19° 5 | 21°12 | 18°45 | 27°17 | 12°28 | 17° 0 | 27°59 | 1°51 | 8°13 | 24° 1 | 23°59 | 13° 2 | n.a. | S 24 |
| M25 | 22 2 1 | 28°31'11 | 2♍11 | 21°27 | 19°55 | 27°56 | 12°36 | 16°57 | 28° 1 | 1°52 | 8°14 | 23°47 | 23°56 | 13° 9 | n.a. | M25 |
| T 26 | 22 5 58 | 29°30'03 | 15° 0 | 21°36 | 21° 6 | 28°35 | 12°43 | 16°55 | 28° 3 | 1°53 | 8°14 | 23°34 | 23°52 | 13°16 | n.a. | T 26 |
| W27 | 22 9 54 | 0♍28'58 | 27°34 | 21°R39 | 22°16 | 29°14 | 12°50 | 16°53 | 28° 5 | 1°55 | 8°14 | 23°23 | 23°49 | 13°22 | n.a. | W27 |
| T 28 | 22 13 51 | 1°27'54 | 9♎52 | 21°36 | 23°27 | 29°53 | 12°57 | 16°50 | 28° 7 | 1°56 | 8°15 | 23°14 | 23°46 | 13°29 | n.a. | T 28 |
| F 29 | 22 17 47 | 2°26'53 | 21°57 | 21°25 | 24°38 | 0♍32 | 13° 4 | 16°47 | 28° 9 | 1°57 | 8°15 | 23° 8 | 23°43 | 13°36 | n.a. | F 29 |
| S 30 | 22 21 44 | 3°25'53 | 3♏51 | 21° 7 | 25°49 | 1°11 | 13°10 | 16°44 | 28°11 | 1°59 | 8°15 | 23° 4 | 23°40 | 13°42 | n.a. | S 30 |
| S 31 | 22 25 40 | 4♍24'55 | 15♏40 | 20♍41 | 27♋ 0 | 1♍51 | 13♊17 | 16♈42 | 28♊13 | 2♋ 0 | 8♊15 | 23♉ 3 | 23♉37 | 13♏49 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 19n11 | 2s27 | 3n24 | 11n35 | 0s22 | 21n38 | 1s51 | 18n21 | 1n 8 | 21n37 | 0s26 | 4n28 | 2s39 | 23n56 | 0n16 | 23n 5 | 0s37 | 17n11 | 4s45 | 19n29 | 19n17 | 13s53 | | n.a. |
| S 2 | 18 57 | 7 46 | 2 33 | 10 58 | 0 30 | 21 46 | 1 47 | 18 10 | 1 8 | 21 39 | 0 26 | 4 27 | 2 39 | 23 56 | 0 16 | 23 5 | 0 37 | 17 11 | 4 45 | 19 28 | 19 16 | 13 56 | | n.a. |
| S 3 | 18 42 | 12 45 | 1 35 | 10 21 | 0 39 | 21 52 | 1 43 | 17 58 | 1 8 | 21 40 | 0 26 | 4 27 | 2 40 | 23 57 | 0 16 | 23 5 | 0 37 | 17 11 | 4 45 | 19 28 | 19 15 | 13 59 | | n.a. |
| M 4 | 18 27 | 17 17 | 0 34 | 9 44 | 0 48 | 21 59 | 1 39 | 17 47 | 1 8 | 21 42 | 0 26 | 4 27 | 2 40 | 23 57 | 0 16 | 23 5 | 0 37 | 17 12 | 4 45 | 19 28 | 19 14 | 14 2 | | n.a. |
| T 5 | 18 12 | 21 10 | 0s29 | 9 8 | 0 57 | 22 4 | 1 36 | 17 35 | 1 7 | 21 43 | 0 26 | 4 27 | 2 40 | 23 57 | 0 16 | 23 5 | 0 37 | 17 12 | 4 45 | 19 28 | 19 13 | 14 5 | | n.a. |
| W 6 | 17 56 | 24 11 | 1 32 | 8 32 | 1 6 | 22 9 | 1 32 | 17 24 | 1 7 | 21 45 | 0 26 | 4 26 | 2 40 | 23 57 | 0 16 | 23 5 | 0 37 | 17 12 | 4 45 | 19 28 | 19 13 | 14 8 | | n.a. |
| T 7 | 17 40 | 26 9 | 2 31 | 7 56 | 1 15 | 22 14 | 1 28 | 17 12 | 1 7 | 21 46 | 0 26 | 4 26 | 2 41 | 23 57 | 0 16 | 23 5 | 0 37 | 17 12 | 4 45 | 19 27 | 19 12 | 14 11 | | n.a. |
| F 8 | 17 24 | 26 50 | 3 24 | 7 21 | 1 24 | 22 18 | 1 24 | 17 0 | 1 7 | 21 48 | 0 26 | 4 25 | 2 41 | 23 57 | 0 16 | 23 5 | 0 37 | 17 12 | 4 46 | 19 26 | 19 11 | 14 14 | | n.a. |
| S 9 | 17 8 | 26 6 | 4 9 | 6 46 | 1 33 | 22 21 | 1 20 | 16 48 | 1 7 | 21 49 | 0 26 | 4 25 | 2 41 | 23 57 | 0 16 | 23 4 | 0 37 | 17 12 | 4 46 | 19 24 | 19 10 | 14 17 | | n.a. |
| S 10 | 16 51 | 23 54 | 4 41 | 6 12 | 1 42 | 22 24 | 1 17 | 16 36 | 1 7 | 21 51 | 0 26 | 4 24 | 2 41 | 23 57 | 0 16 | 23 4 | 0 37 | 17 12 | 4 46 | 19 21 | 19 10 | 14 19 | | n.a. |
| M11 | 16 34 | 20 19 | 4 58 | 5 38 | 1 51 | 22 27 | 1 13 | 16 23 | 1 6 | 21 52 | 0 26 | 4 24 | 2 42 | 23 57 | 0 16 | 23 4 | 0 37 | 17 12 | 4 46 | 19 18 | 19 9 | 14 22 | | n.a. |
| T 12 | 16 16 | 15 34 | 4 59 | 5 6 | 2 0 | 22 28 | 1 9 | 16 11 | 1 6 | 21 53 | 0 26 | 4 23 | 2 42 | 23 57 | 0 16 | 23 4 | 0 37 | 17 12 | 4 46 | 19 15 | 19 8 | 14 25 | | n.a. |
| W13 | 15 59 | 9 56 | 4 41 | 4 34 | 2 9 | 22 29 | 1 5 | 15 58 | 1 6 | 21 55 | 0 26 | 4 22 | 2 42 | 23 57 | 0 16 | 23 4 | 0 37 | 17 12 | 4 46 | 19 13 | 19 7 | 14 28 | | n.a. |
| T 14 | 15 41 | 3 44 | 4 6 | 4 3 | 2 18 | 22 30 | 1 1 | 15 46 | 1 6 | 21 56 | 0 26 | 4 22 | 2 42 | 23 57 | 0 16 | 23 4 | 0 37 | 17 12 | 4 46 | 19 11 | 19 6 | 14 31 | | n.a. |
| F 15 | 15 22 | 2n41 | 3 16 | 3 33 | 2 26 | 22 29 | 0 57 | 15 33 | 1 6 | 21 57 | 0 26 | 4 21 | 2 43 | 23 57 | 0 16 | 23 4 | 0 37 | 17 12 | 4 46 | 19 9 | 19 6 | 14 34 | | n.a. |
| S 16 | 15 4 | 8 59 | 2 14 | 3 4 | 2 35 | 22 29 | 0 53 | 15 20 | 1 5 | 21 58 | 0 26 | 4 20 | 2 43 | 23 58 | 0 17 | 23 4 | 0 37 | 17 12 | 4 46 | 19 8 | 19 5 | 14 37 | | n.a. |
| S 17 | 14 45 | 14 49 | 1 3 | 2 37 | 2 43 | 22 27 | 0 49 | 15 7 | 1 5 | 22 0 | 0 26 | 4 19 | 2 43 | 23 58 | 0 17 | 23 4 | 0 37 | 17 12 | 4 46 | 19 8 | 19 4 | 14 40 | | n.a. |
| M18 | 14 26 | 19 50 | 0n11 | 2 11 | 2 51 | 22 25 | 0 46 | 14 54 | 1 5 | 22 1 | 0 26 | 4 19 | 2 43 | 23 58 | 0 17 | 23 4 | 0 37 | 17 12 | 4 46 | 19 8 | 19 3 | 14 42 | | n.a. |
| T 19 | 14 7 | 23 42 | 1 24 | 1 47 | 2 59 | 22 23 | 0 42 | 14 41 | 1 5 | 22 2 | 0 26 | 4 18 | 2 44 | 23 58 | 0 17 | 23 4 | 0 37 | 17 12 | 4 46 | 19 8 | 19 2 | 14 45 | | n.a. |
| W20 | 13 48 | 26 7 | 2 32 | 1 25 | 3 7 | 22 19 | 0 38 | 14 27 | 1 5 | 22 3 | 0 26 | 4 17 | 2 44 | 23 58 | 0 17 | 23 4 | 0 37 | 17 12 | 4 46 | 19 8 | 19 2 | 14 48 | | n.a. |
| T 21 | 13 28 | 26 55 | 3 30 | 1 4 | 3 14 | 22 15 | 0 34 | 14 14 | 1 4 | 22 4 | 0 25 | 4 16 | 2 44 | 23 58 | 0 17 | 23 4 | 0 37 | 17 12 | 4 46 | 19 6 | 19 1 | 14 51 | | n.a. |
| F 22 | 13 8 | 26 2 | 4 15 | 0 46 | 3 21 | 22 11 | 0 30 | 14 0 | 1 4 | 22 5 | 0 25 | 4 15 | 2 44 | 23 58 | 0 17 | 23 4 | 0 37 | 17 12 | 4 46 | 19 5 | 19 0 | 14 54 | | n.a. |
| S 23 | 12 48 | 23 38 | 4 45 | 0 30 | 3 27 | 22 6 | 0 27 | 13 47 | 1 4 | 22 6 | 0 25 | 4 14 | 2 45 | 23 58 | 0 17 | 23 4 | 0 37 | 17 12 | 4 46 | 19 2 | 18 59 | 14 57 | | n.a. |
| S 24 | 12 28 | 19 59 | 4 59 | 0 16 | 3 33 | 22 0 | 0 23 | 13 33 | 1 4 | 22 7 | 0 25 | 4 13 | 2 45 | 23 58 | 0 17 | 23 4 | 0 37 | 17 12 | 4 46 | 18 59 | 18 59 | 15 0 | | n.a. |
| M25 | 12 7 | 15 25 | 4 57 | 0 6 | 3 38 | 21 53 | 0 19 | 13 19 | 1 4 | 22 8 | 0 25 | 4 12 | 2 45 | 23 58 | 0 17 | 23 4 | 0 37 | 17 12 | 4 46 | 18 56 | 18 58 | 15 2 | | n.a. |
| T 26 | 11 46 | 10 16 | 4 40 | 0s 2 | 3 42 | 21 46 | 0 16 | 13 5 | 1 3 | 22 9 | 0 25 | 4 11 | 2 45 | 23 58 | 0 17 | 23 4 | 0 37 | 17 13 | 4 46 | 18 52 | 18 57 | 15 5 | | n.a. |
| W27 | 11 25 | 4 47 | 4 9 | 0 6 | 3 45 | 21 39 | 0 12 | 12 51 | 1 3 | 22 10 | 0 25 | 4 9 | 2 46 | 23 58 | 0 17 | 23 4 | 0 37 | 17 13 | 4 47 | 18 50 | 18 56 | 15 8 | | n.a. |
| T 28 | 11 4 | 0s47 | 3 27 | 0 7 | 3 48 | 21 30 | 0 8 | 12 37 | 1 3 | 22 11 | 0 25 | 4 8 | 2 46 | 23 58 | 0 17 | 23 4 | 0 37 | 17 12 | 4 47 | 18 47 | 18 55 | 15 11 | | n.a. |
| F 29 | 10 43 | 6 13 | 2 37 | 0 4 | 3 49 | 21 21 | 0 5 | 12 23 | 1 3 | 22 12 | 0 25 | 4 7 | 2 46 | 23 58 | 0 17 | 23 4 | 0 37 | 17 12 | 4 47 | 18 46 | 18 55 | 15 14 | | n.a. |
| S 30 | 10 22 | 11 23 | 1 40 | 0n 4 | 3 49 | 21 12 | 0 1 | 12 8 | 1 2 | 22 13 | 0 25 | 4 6 | 2 46 | 23 58 | 0 17 | 23 4 | 0 37 | 17 12 | 4 47 | 18 45 | 18 54 | 15 17 | | n.a. |
| S 31 | 10n 0 | 16s 5 | 0n39 | 0n15 | 3s47 | 21n 2 | 0n 2 | 11n54 | 1n 2 | 22n14 | 0s25 | 4n 4 | 2s46 | 23n58 | 0n17 | 23n 4 | 0s37 | 17n12 | 4s47 | 18n44 | 18n53 | 15s19 | | n.a. |

Julian Day Number = 1698259.5, Delta T = 03h06m55s
Ecliptic obliquity = 23°42'15, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°56'22, Lahiri = - 4°49'22 Julian Calendar 1 Aug. 64 BCE == Greg. Calendar 30 July 064 BCE

The year -63 astronomical counting style corresponds to year 064 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 64 BCE
# geocentric

## SEPTEMBER 64 BCE (-63) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 22 29 37 | 5♍24'00 | 27♏27 | 20°R 8 | 28♋11 | 2♍30 | 13♊23 | 16°R39 | 28♊15 | 2♋ 1 | 8♊16 | 23°D 3 | 23♉33 | 13♏56 | n.a. | M 1 |
| T 2 | 22 33 34 | 6°23'06 | 9♐19 | 19♍27 | 29°22 | 3° 9 | 13°30 | 16♈36 | 28°17 | 2° 2 | 8°16 | 23°R 3 | 23°30 | 14° 2 | n.a. | T 2 |
| W 3 | 22 37 30 | 7°22'14 | 21°21 | 18°39 | 0♌34 | 3°48 | 13°36 | 16°32 | 28°19 | 2° 3 | 8°16 | 23♉ 2 | 23°27 | 14° 9 | n.a. | W 3 |
| T 4 | 22 41 27 | 8°21'24 | 3♑38 | 17°44 | 1°45 | 4°28 | 13°41 | 16°29 | 28°21 | 2° 5 | 8°16 | 22°59 | 23°24 | 14°16 | n.a. | T 4 |
| F 5 | 22 45 23 | 9°20'36 | 16°15 | 16°44 | 2°57 | 5° 7 | 13°47 | 16°26 | 28°22 | 2° 6 | 8°16 | 22°54 | 23°21 | 14°22 | n.a. | F 5 |
| S 6 | 22 49 20 | 10°19'49 | 29°16 | 15°38 | 4° 9 | 5°47 | 13°53 | 16°23 | 28°24 | 2° 7 | 8°17 | 22°47 | 23°18 | 14°29 | n.a. | S 6 |
| S 7 | 22 53 16 | 11°19'05 | 12♒41 | 14°30 | 5°21 | 6°26 | 13°58 | 16°19 | 28°26 | 2° 8 | 8°17 | 22°37 | 23°14 | 14°36 | n.a. | S 7 |
| M 8 | 22 57 13 | 12°18'23 | 26°31 | 13°19 | 6°33 | 7° 5 | 14° 3 | 16°16 | 28°27 | 2° 9 | 8°17 | 22°26 | 23°11 | 14°42 | n.a. | M 8 |
| T 9 | 23 1 9 | 13°17'42 | 10♓42 | 12° 9 | 7°45 | 7°45 | 14° 8 | 16°12 | 28°29 | 2°10 | 8°17 | 22°15 | 23° 8 | 14°49 | n.a. | T 9 |
| W10 | 23 5 6 | 14°17'04 | 25° 9 | 11° 0 | 8°57 | 8°24 | 14°13 | 16° 8 | 28°30 | 2°11 | 8°17 | 22° 5 | 23° 5 | 14°55 | n.a. | W10 |
| T 11 | 23 9 2 | 15°16'28 | 9♈45 | 9°56 | 10° 9 | 9° 4 | 14°18 | 16° 4 | 28°32 | 2°12 | 8°R17 | 21°57 | 23° 2 | 15° 2 | n.a. | T 11 |
| F 12 | 23 12 59 | 16°15'54 | 24°24 | 8°57 | 11°21 | 9°43 | 14°23 | 16° 1 | 28°33 | 2°12 | 8°17 | 21°52 | 22°58 | 15° 9 | n.a. | F 12 |
| S 13 | 23 16 56 | 17°15'22 | 8♉58 | 8° 7 | 12°34 | 10°23 | 14°27 | 15°57 | 28°35 | 2°13 | 8°17 | 21°49 | 22°55 | 15°15 | n.a. | S 13 |
| S 14 | 23 20 52 | 18°14'53 | 23°23 | 7°24 | 13°46 | 11° 3 | 14°31 | 15°53 | 28°36 | 2°14 | 8°17 | 21°D48 | 22°52 | 15°22 | n.a. | S 14 |
| M15 | 23 24 49 | 19°14'27 | 7♊36 | 6°52 | 14°59 | 11°42 | 14°35 | 15°49 | 28°37 | 2°15 | 8°17 | 21°49 | 22°49 | 15°29 | n.a. | M15 |
| T 16 | 23 28 45 | 20°14'03 | 21°37 | 6°31 | 16°12 | 12°22 | 14°39 | 15°45 | 28°38 | 2°16 | 8°17 | 21°R49 | 22°46 | 15°35 | n.a. | T 16 |
| W17 | 23 32 42 | 21°13'41 | 5♋23 | 6°D21 | 17°24 | 13° 2 | 14°43 | 15°40 | 28°39 | 2°16 | 8°16 | 21°48 | 22°43 | 15°42 | n.a. | W17 |
| T 18 | 23 36 38 | 22°13'22 | 18°57 | 6°21 | 18°37 | 13°41 | 14°46 | 15°36 | 28°40 | 2°17 | 8°16 | 21°45 | 22°39 | 15°49 | n.a. | T 18 |
| F 19 | 23 40 35 | 23°13'05 | 2♌19 | 6°33 | 19°50 | 14°21 | 14°50 | 15°32 | 28°41 | 2°18 | 8°16 | 21°40 | 22°36 | 15°55 | n.a. | F 19 |
| S 20 | 23 44 31 | 24°12'50 | 15°28 | 6°55 | 21° 3 | 15° 1 | 14°53 | 15°27 | 28°42 | 2°18 | 8°16 | 21°32 | 22°33 | 16° 2 | n.a. | S 20 |
| S 21 | 23 48 28 | 25°12'38 | 28°25 | 7°27 | 22°16 | 15°41 | 14°56 | 15°23 | 28°43 | 2°19 | 8°16 | 21°22 | 22°30 | 16° 9 | n.a. | S 21 |
| M22 | 23 52 25 | 26°12'27 | 11♍ 9 | 8° 8 | 23°29 | 16°21 | 14°58 | 15°19 | 28°44 | 2°20 | 8°16 | 21°12 | 22°27 | 16°15 | n.a. | M22 |
| T 23 | 23 56 21 | 27°12'19 | 23°42 | 8°57 | 24°43 | 17° 1 | 15° 1 | 15°14 | 28°45 | 2°20 | 8°15 | 21° 1 | 22°23 | 16°22 | n.a. | T 23 |
| W24 | 0 0 18 | 28°12'13 | 6♎ 2 | 9°54 | 25°56 | 17°41 | 15° 3 | 15°10 | 28°46 | 2°21 | 8°15 | 20°52 | 22°20 | 16°29 | n.a. | W24 |
| T 25 | 0 4 14 | 29°12'09 | 18°10 | 10°58 | 27° 9 | 18°21 | 15° 5 | 15° 5 | 28°46 | 2°21 | 8°15 | 20°45 | 22°17 | 16°35 | n.a. | T 25 |
| F 26 | 0 8 11 | 0♎12'07 | 0♏ 9 | 12° 7 | 28°23 | 19° 0 | 15° 7 | 15° 0 | 28°47 | 2°22 | 8°14 | 20°41 | 22°14 | 16°42 | n.a. | F 26 |
| S 27 | 0 12 7 | 1°12'06 | 12° 0 | 13°21 | 29°36 | 19°41 | 15° 9 | 14°56 | 28°48 | 2°22 | 8°14 | 20°38 | 22°11 | 16°48 | n.a. | S 27 |
| S 28 | 0 16 4 | 2°12'08 | 23°46 | 14°40 | 0♍50 | 20°21 | 15°11 | 14°51 | 28°48 | 2°22 | 8°14 | 20°D38 | 22° 8 | 16°55 | n.a. | S 28 |
| M29 | 0 20 0 | 3°12'12 | 5♐32 | 16° 3 | 2° 4 | 21° 1 | 15°12 | 14°46 | 28°49 | 2°23 | 8°13 | 20°39 | 22° 4 | 17° 2 | n.a. | M29 |
| T 30 | 0 23 57 | 4♎12'17 | 17♐23 | 17♍28 | 3♍17 | 21♍41 | 15♊13 | 14♈42 | 28♊49 | 2♋23 | 8♊13 | 20♉40 | 22♉ 1 | 17♏ 8 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 9n38 | 20s11 | 0s23 | 0n31 | 3s44 | 20n51 | 0n 6 | 11n40 | 1n 2 | 22n15 | 0s25 | 4n 3 | 2s47 | 23n58 | 0n17 | 23n 4 | 0s37 | 17n12 | 4s47 | 18n44 | 18n52 | 15s22 | | n.a. |
| T 2 | 9 16 | 23 30 | 1 25 | 0 52 | 3 39 | 20 39 | 0 9 | 11 25 | 1 2 | 22 16 | 0 25 | 4 2 | 2 47 | 23 58 | 0 17 | 23 4 | 0 37 | 17 12 | 4 47 | 18 44 | 18 51 | 15 25 | | n.a. |
| W 3 | 8 54 | 25 49 | 2 24 | 1 17 | 3 32 | 20 27 | 0 12 | 11 10 | 1 1 | 22 16 | 0 25 | 4 0 | 2 47 | 23 59 | 0 17 | 23 4 | 0 37 | 17 12 | 4 47 | 18 44 | 18 51 | 15 28 | | n.a. |
| T 4 | 8 32 | 26 57 | 3 18 | 1 47 | 3 24 | 20 15 | 0 16 | 10 56 | 1 1 | 22 17 | 0 25 | 3 59 | 2 47 | 23 59 | 0 17 | 23 4 | 0 37 | 17 12 | 4 47 | 18 44 | 18 50 | 15 31 | | n.a. |
| F 5 | 8 9 | 26 44 | 4 3 | 2 20 | 3 13 | 20 1 | 0 19 | 10 41 | 1 1 | 22 18 | 0 25 | 3 57 | 2 47 | 23 59 | 0 17 | 23 4 | 0 37 | 17 12 | 4 47 | 18 42 | 18 49 | 15 34 | | n.a. |
| S 6 | 7 47 | 25 3 | 4 38 | 2 57 | 3 0 | 19 48 | 0 22 | 10 26 | 1 1 | 22 19 | 0 25 | 3 56 | 2 48 | 23 59 | 0 17 | 23 4 | 0 37 | 17 12 | 4 47 | 18 40 | 18 48 | 15 36 | | n.a. |
| S 7 | 7 24 | 21 56 | 4 58 | 3 38 | 2 46 | 19 33 | 0 25 | 10 11 | 1 0 | 22 19 | 0 25 | 3 54 | 2 48 | 23 59 | 0 17 | 23 4 | 0 37 | 17 12 | 4 47 | 18 38 | 18 47 | 15 39 | | n.a. |
| M 8 | 7 1 | 17 32 | 5 2 | 4 20 | 2 30 | 19 18 | 0 29 | 9 56 | 1 0 | 22 20 | 0 25 | 3 53 | 2 48 | 23 59 | 0 17 | 23 4 | 0 37 | 17 12 | 4 47 | 18 35 | 18 46 | 15 42 | | n.a. |
| T 9 | 6 38 | 12 3 | 4 47 | 5 3 | 2 12 | 19 3 | 0 32 | 9 41 | 1 0 | 22 21 | 0 25 | 3 51 | 2 48 | 23 59 | 0 17 | 23 4 | 0 37 | 17 12 | 4 47 | 18 32 | 18 46 | 15 45 | | n.a. |
| W10 | 6 15 | 5 50 | 4 14 | 5 47 | 1 53 | 18 47 | 0 35 | 9 26 | 1 0 | 22 21 | 0 25 | 3 50 | 2 48 | 23 59 | 0 17 | 23 4 | 0 37 | 17 12 | 4 47 | 18 29 | 18 45 | 15 48 | | n.a. |
| T 11 | 5 52 | 0n47 | 3 24 | 6 30 | 1 33 | 18 30 | 0 38 | 9 10 | 0 59 | 22 22 | 0 25 | 3 48 | 2 48 | 23 59 | 0 17 | 23 4 | 0 37 | 17 12 | 4 47 | 18 27 | 18 44 | 15 50 | | n.a. |
| F 12 | 5 29 | 7 23 | 2 21 | 7 11 | 1 13 | 18 13 | 0 41 | 8 55 | 0 59 | 22 22 | 0 25 | 3 47 | 2 49 | 23 59 | 0 17 | 23 4 | 0 37 | 17 12 | 4 47 | 18 26 | 18 43 | 15 53 | | n.a. |
| S 13 | 5 5 | 13 34 | 1 8 | 7 49 | 0 52 | 17 55 | 0 43 | 8 40 | 0 59 | 22 23 | 0 24 | 3 45 | 2 49 | 23 59 | 0 17 | 23 4 | 0 38 | 17 12 | 4 48 | 18 25 | 18 42 | 15 56 | | n.a. |
| S 14 | 4 42 | 18 58 | 0n 8 | 8 23 | 0 32 | 17 37 | 0 46 | 8 24 | 0 59 | 22 23 | 0 24 | 3 43 | 2 49 | 23 59 | 0 17 | 23 4 | 0 38 | 17 12 | 4 48 | 18 25 | 18 42 | 15 59 | | n.a. |
| M15 | 4 18 | 23 11 | 1 23 | 8 54 | 0 13 | 17 18 | 0 49 | 8 9 | 0 58 | 22 24 | 0 24 | 3 42 | 2 49 | 23 59 | 0 17 | 23 4 | 0 38 | 17 12 | 4 48 | 18 25 | 18 41 | 16 2 | | n.a. |
| T 16 | 3 55 | 25 58 | 2 32 | 9 19 | 0n 6 | 16 59 | 0 52 | 7 53 | 0 58 | 22 24 | 0 24 | 3 40 | 2 49 | 23 59 | 0 17 | 23 4 | 0 38 | 17 12 | 4 48 | 18 25 | 18 40 | 16 4 | | n.a. |
| W17 | 3 31 | 27 6 | 3 31 | 9 39 | 0 24 | 16 39 | 0 54 | 7 38 | 0 58 | 22 25 | 0 24 | 3 38 | 2 49 | 23 59 | 0 17 | 23 4 | 0 38 | 17 12 | 4 48 | 18 25 | 18 39 | 16 7 | | n.a. |
| T 18 | 3 7 | 26 35 | 4 17 | 9 54 | 0 40 | 16 19 | 0 57 | 7 22 | 0 57 | 22 25 | 0 24 | 3 36 | 2 49 | 23 59 | 0 17 | 23 4 | 0 38 | 17 12 | 4 48 | 18 24 | 18 38 | 16 10 | | n.a. |
| F 19 | 2 43 | 24 32 | 4 48 | 10 3 | 0 55 | 15 58 | 0 59 | 7 6 | 0 57 | 22 26 | 0 24 | 3 35 | 2 50 | 23 59 | 0 17 | 23 3 | 0 38 | 17 11 | 4 48 | 18 23 | 18 38 | 16 13 | | n.a. |
| S 20 | 2 19 | 21 12 | 5 3 | 10 7 | 1 8 | 15 37 | 1 2 | 6 50 | 0 57 | 22 26 | 0 24 | 3 33 | 2 50 | 23 59 | 0 17 | 23 3 | 0 38 | 17 11 | 4 48 | 18 21 | 18 37 | 16 16 | | n.a. |
| S 21 | 1 55 | 16 53 | 5 3 | 10 6 | 1 20 | 15 15 | 1 4 | 6 34 | 0 57 | 22 27 | 0 24 | 3 31 | 2 50 | 23 59 | 0 17 | 23 3 | 0 38 | 17 11 | 4 48 | 18 18 | 18 36 | 16 18 | | n.a. |
| M22 | 1 31 | 11 52 | 4 47 | 10 0 | 1 30 | 14 53 | 1 6 | 6 18 | 0 56 | 22 27 | 0 24 | 3 29 | 2 50 | 23 59 | 0 17 | 23 3 | 0 38 | 17 11 | 4 48 | 18 15 | 18 35 | 16 21 | | n.a. |
| T 23 | 1 7 | 6 28 | 4 18 | 9 49 | 1 39 | 14 30 | 1 8 | 6 2 | 0 56 | 22 27 | 0 24 | 3 27 | 2 50 | 23 59 | 0 17 | 23 3 | 0 38 | 17 11 | 4 48 | 18 13 | 18 34 | 16 24 | | n.a. |
| W24 | 0 43 | 0 53 | 3 36 | 9 35 | 1 46 | 14 7 | 1 11 | 5 46 | 0 56 | 22 28 | 0 24 | 3 26 | 2 50 | 23 59 | 0 17 | 23 3 | 0 38 | 17 11 | 4 48 | 18 10 | 18 33 | 16 27 | | n.a. |
| T 25 | 0 19 | 4s39 | 2 46 | 9 16 | 1 52 | 13 44 | 1 13 | 5 30 | 0 55 | 22 28 | 0 24 | 3 24 | 2 50 | 23 59 | 0 17 | 23 3 | 0 38 | 17 11 | 4 48 | 18 8 | 18 33 | 16 29 | | n.a. |
| F 26 | 0s 5 | 9 58 | 1 48 | 8 53 | 1 57 | 13 20 | 1 15 | 5 14 | 0 55 | 22 28 | 0 24 | 3 22 | 2 50 | 23 59 | 0 17 | 23 3 | 0 38 | 17 11 | 4 48 | 18 7 | 18 32 | 16 32 | | n.a. |
| S 27 | 0 29 | 14 52 | 0 47 | 8 28 | 2 1 | 12 56 | 1 17 | 4 58 | 0 55 | 22 28 | 0 24 | 3 20 | 2 50 | 23 59 | 0 17 | 23 3 | 0 38 | 17 11 | 4 48 | 18 6 | 18 31 | 16 35 | | n.a. |
| S 28 | 0 53 | 19 12 | 0s17 | 7 59 | 2 3 | 12 31 | 1 18 | 4 42 | 0 54 | 22 29 | 0 24 | 3 18 | 2 50 | 23 59 | 0 18 | 23 3 | 0 38 | 17 11 | 4 48 | 18 6 | 18 30 | 16 38 | | n.a. |
| M29 | 1 17 | 22 47 | 1 20 | 7 28 | 2 5 | 12 6 | 1 20 | 4 26 | 0 54 | 22 29 | 0 24 | 3 16 | 2 50 | 23 59 | 0 18 | 23 3 | 0 38 | 17 10 | 4 48 | 18 7 | 18 29 | 16 40 | | n.a. |
| T 30 | 1s41 | 25s25 | 2s20 | 6n55 | 2n 5 | 11n41 | 1n22 | 4n 9 | 0n54 | 22n29 | 0s24 | 3n14 | 2s50 | 24n 0 | 0n18 | 23n 3 | 0s38 | 17n10 | 4s48 | 18n 7 | 18n28 | 16s43 | | n.a. |

Julian Day Number = 1698290.5, Delta T = 03h06m54s
Ecliptic obliquity = 23°42'16, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°56'18, Lahiri = - 4°49'17 Julian Calendar 1 Sept. 64 BCE == Greg. Calendar 30 Aug. 064 BCE

The year -63 astronomical counting style corresponds to year 064 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 64 BCE
# geocentric

## OCTOBER 64 BCE (-63) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 0 27 54 | 5♎12'24 | 29♐23 | 18♍57 | 4♍31 | 22♍21 | 15♊14 | 14°R37 | 28♊50 | 2♋23 | 8°R12 | 20♉41 | 21♉58 | 17♏15 | n.a. | W 1 |
| T 2 | 0 31 50 | 6°12'32 | 11♑37 | 20°27 | 5°45 | 23° 1 | 15°15 | 14♈32 | 28°50 | 2°23 | 8♊12 | 20°R41 | 21°55 | 17°22 | n.a. | T 2 |
| F 3 | 0 35 47 | 7°12'43 | 24°11 | 21°59 | 6°59 | 23°41 | 15°16 | 14°27 | 28°50 | 2°24 | 8°11 | 20°40 | 21°52 | 17°28 | n.a. | F 3 |
| S 4 | 0 39 43 | 8°12'54 | 7♒ 9 | 23°33 | 8°13 | 24°22 | 15°16 | 14°22 | 28°50 | 2°24 | 8°11 | 20°36 | 21°49 | 17°35 | n.a. | S 4 |
| S 5 | 0 43 40 | 9°13'08 | 20°34 | 25° 8 | 9°27 | 25° 2 | 15°R16 | 14°17 | 28°50 | 2°24 | 8°10 | 20°31 | 21°45 | 17°42 | n.a. | S 5 |
| M 6 | 0 47 36 | 10°13'23 | 4♓27 | 26°43 | 10°41 | 25°42 | 15°16 | 14°13 | 28°51 | 2°24 | 8°10 | 20°25 | 21°42 | 17°48 | n.a. | M 6 |
| T 7 | 0 51 33 | 11°13'40 | 18°47 | 28°20 | 11°55 | 26°23 | 15°16 | 14° 8 | 28°R51 | 2°24 | 8° 9 | 20°18 | 21°39 | 17°55 | n.a. | T 7 |
| W 8 | 0 55 29 | 12°13'58 | 3♈28 | 29°57 | 13° 9 | 27° 3 | 15°16 | 14° 3 | 28°51 | 2°R24 | 8° 9 | 20°13 | 21°36 | 18° 2 | n.a. | W 8 |
| T 9 | 0 59 26 | 13°14'18 | 18°24 | 1♎34 | 14°24 | 27°43 | 15°15 | 13°58 | 28°51 | 2°24 | 8° 8 | 20° 8 | 21°33 | 18° 8 | n.a. | T 9 |
| F 10 | 1 3 22 | 14°14'40 | 3♉25 | 3°11 | 15°38 | 28°24 | 15°14 | 13°53 | 28°50 | 2°24 | 8° 7 | 20° 5 | 21°29 | 18°15 | n.a. | F 10 |
| S 11 | 1 7 19 | 15°15'04 | 18°24 | 4°49 | 16°52 | 29° 4 | 15°13 | 13°48 | 28°50 | 2°24 | 8° 7 | 20°D 4 | 21°26 | 18°21 | n.a. | S 11 |
| S 12 | 1 11 16 | 16°15'30 | 3♊12 | 6°26 | 18° 7 | 29°45 | 15°12 | 13°43 | 28°50 | 2°24 | 8° 6 | 20° 5 | 21°23 | 18°28 | n.a. | S 12 |
| M13 | 1 15 12 | 17°15'58 | 17°44 | 8° 4 | 19°21 | 0♎25 | 15°11 | 13°38 | 28°50 | 2°24 | 8° 5 | 20° 6 | 21°20 | 18°35 | n.a. | M13 |
| T 14 | 1 19 9 | 18°16'28 | 1♋56 | 9°41 | 20°35 | 1° 6 | 15° 9 | 13°33 | 28°49 | 2°23 | 8° 5 | 20° 7 | 21°17 | 18°41 | n.a. | T 14 |
| W15 | 1 23 5 | 19°17'00 | 15°47 | 11°19 | 21°50 | 1°47 | 15° 7 | 13°29 | 28°49 | 2°23 | 8° 4 | 20°R 8 | 21°14 | 18°48 | n.a. | W15 |
| T 16 | 1 27 2 | 20°17'34 | 29°18 | 12°56 | 23° 5 | 2°27 | 15° 5 | 13°24 | 28°49 | 2°23 | 8° 3 | 20° 8 | 21°10 | 18°55 | n.a. | T 16 |
| F 17 | 1 30 58 | 21°18'10 | 12♌29 | 14°33 | 24°19 | 3° 8 | 15° 3 | 13°19 | 28°48 | 2°23 | 8° 2 | 20° 6 | 21° 7 | 19° 1 | n.a. | F 17 |
| S 18 | 1 34 55 | 22°18'47 | 25°23 | 16° 9 | 25°34 | 3°49 | 15° 1 | 13°14 | 28°48 | 2°22 | 8° 2 | 20° 3 | 21° 4 | 19° 8 | n.a. | S 18 |
| S 19 | 1 38 52 | 23°19'27 | 8♍ 3 | 17°46 | 26°49 | 4°29 | 14°58 | 13° 9 | 28°47 | 2°22 | 8° 1 | 19°59 | 21° 1 | 19°15 | n.a. | S 19 |
| M20 | 1 42 48 | 24°20'08 | 20°30 | 19°22 | 28° 3 | 5°10 | 14°55 | 13° 5 | 28°46 | 2°22 | 8° 0 | 19°55 | 20°58 | 19°21 | n.a. | M20 |
| T 21 | 1 46 45 | 25°20'50 | 2♎45 | 20°58 | 29°18 | 5°51 | 14°52 | 13° 0 | 28°46 | 2°21 | 7°59 | 19°50 | 20°55 | 19°28 | n.a. | T 21 |
| W22 | 1 50 41 | 26°21'35 | 14°51 | 22°34 | 0♎33 | 6°32 | 14°49 | 12°55 | 28°45 | 2°21 | 7°58 | 19°47 | 20°51 | 19°35 | n.a. | W22 |
| T 23 | 1 54 38 | 27°22'21 | 26°49 | 24°10 | 1°48 | 7°13 | 14°46 | 12°50 | 28°44 | 2°20 | 7°57 | 19°44 | 20°48 | 19°41 | n.a. | T 23 |
| F 24 | 1 58 34 | 28°23'08 | 8♏41 | 25°45 | 3° 3 | 7°54 | 14°42 | 12°46 | 28°43 | 2°20 | 7°57 | 19°42 | 20°45 | 19°48 | n.a. | F 24 |
| S 25 | 2 2 31 | 29°23'57 | 20°29 | 27°21 | 4°17 | 8°35 | 14°39 | 12°41 | 28°42 | 2°19 | 7°56 | 19°D42 | 20°42 | 19°55 | n.a. | S 25 |
| S 26 | 2 6 27 | 0♏24'47 | 2♐16 | 28°56 | 5°32 | 9°16 | 14°35 | 12°37 | 28°41 | 2°19 | 7°55 | 19°42 | 20°39 | 20° 1 | n.a. | S 26 |
| M27 | 2 10 24 | 1°25'38 | 14° 3 | 0♏31 | 6°47 | 9°57 | 14°31 | 12°32 | 28°40 | 2°18 | 7°54 | 19°43 | 20°35 | 20° 8 | n.a. | M27 |
| T 28 | 2 14 20 | 2°26'31 | 25°55 | 2° 5 | 8° 2 | 10°38 | 14°26 | 12°28 | 28°39 | 2°17 | 7°53 | 19°45 | 20°32 | 20°14 | n.a. | T 28 |
| W29 | 2 18 17 | 3°27'24 | 7♑55 | 3°40 | 9°17 | 11°19 | 14°22 | 12°23 | 28°38 | 2°17 | 7°52 | 19°46 | 20°29 | 20°21 | n.a. | W29 |
| T 30 | 2 22 14 | 4°28'19 | 20° 8 | 5°15 | 10°32 | 12° 0 | 14°17 | 12°19 | 28°37 | 2°16 | 7°51 | 19°48 | 20°26 | 20°28 | n.a. | T 30 |
| F 31 | 2 26 10 | 5♏29'15 | 2♒38 | 6♏49 | 11♎47 | 12♎41 | 14♊12 | 12♈15 | 28♊36 | 2♋15 | 7♊50 | 19°R48 | 20♉23 | 20♏34 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 2s 5 | 26s57 | 3s14 | 6n20 | 2n 5 | 11n15 | 1n23 | 3n53 | 0n53 | 22n29 | 0s24 | 3n12 | 2s50 | 24n 0 | 0n18 | 23n 3 | 0s38 | 17n10 | 4s48 | 18n 7 | 18n28 | 16s46 | | n.a. |
| T 2 | 2 30 | 27 12 | 4 1 | 5 43 | 2 4 | 10 49 | 1 25 | 3 37 | 0 53 | 22 29 | 0 23 | 3 10 | 2 50 | 24 0 | 0 18 | 23 3 | 0 38 | 17 10 | 4 49 | 18 7 | 18 27 | 16 49 | | n.a. |
| F 3 | 2 54 | 26 4 | 4 38 | 5 5 | 2 2 | 10 23 | 1 26 | 3 20 | 0 53 | 22 29 | 0 23 | 3 9 | 2 50 | 24 0 | 0 18 | 23 3 | 0 38 | 17 10 | 4 49 | 18 7 | 18 26 | 16 51 | | n.a. |
| S 4 | 3 18 | 23 33 | 5 2 | 4 25 | 2 0 | 9 56 | 1 28 | 3 4 | 0 52 | 22 30 | 0 23 | 3 7 | 2 51 | 24 0 | 0 18 | 23 3 | 0 38 | 17 10 | 4 49 | 18 6 | 18 25 | 16 54 | | n.a. |
| S 5 | 3 42 | 19 41 | 5 10 | 3 44 | 1 57 | 9 29 | 1 29 | 2 47 | 0 52 | 22 30 | 0 23 | 3 5 | 2 51 | 24 0 | 0 18 | 23 3 | 0 38 | 17 10 | 4 49 | 18 5 | 18 24 | 16 57 | | n.a. |
| M 6 | 4 6 | 14 39 | 5 1 | 3 3 | 1 53 | 9 2 | 1 30 | 2 31 | 0 52 | 22 30 | 0 23 | 3 3 | 2 51 | 24 0 | 0 18 | 23 3 | 0 38 | 17 10 | 4 49 | 18 3 | 18 23 | 16 59 | | n.a. |
| T 7 | 4 29 | 8 40 | 4 33 | 2 20 | 1 49 | 8 34 | 1 31 | 2 14 | 0 51 | 22 30 | 0 23 | 3 1 | 2 51 | 24 0 | 0 18 | 23 3 | 0 38 | 17 10 | 4 49 | 18 1 | 18 23 | 17 2 | | n.a. |
| W 8 | 4 53 | 2 4 | 3 47 | 1 38 | 1 45 | 8 7 | 1 32 | 1 58 | 0 51 | 22 30 | 0 23 | 2 59 | 2 51 | 24 0 | 0 18 | 23 3 | 0 38 | 17 9 | 4 49 | 18 0 | 18 22 | 17 5 | | n.a. |
| T 9 | 5 17 | 4n46 | 2 44 | 0 54 | 1 41 | 7 39 | 1 33 | 1 41 | 0 50 | 22 30 | 0 23 | 2 57 | 2 51 | 24 0 | 0 18 | 23 3 | 0 38 | 17 9 | 4 49 | 17 58 | 18 21 | 17 8 | | n.a. |
| F 10 | 5 41 | 11 23 | 1 30 | 0 11 | 1 36 | 7 10 | 1 34 | 1 25 | 0 50 | 22 30 | 0 23 | 2 55 | 2 50 | 24 0 | 0 18 | 23 3 | 0 38 | 17 9 | 4 49 | 17 58 | 18 20 | 17 10 | | n.a. |
| S 11 | 6 4 | 17 21 | 0 9 | 0s33 | 1 30 | 6 42 | 1 35 | 1 8 | 0 50 | 22 30 | 0 23 | 2 53 | 2 50 | 24 0 | 0 18 | 23 3 | 0 38 | 17 9 | 4 49 | 17 57 | 18 19 | 17 13 | | n.a. |
| S 12 | 6 28 | 22 12 | 1n11 | 1 17 | 1 25 | 6 13 | 1 36 | 0 51 | 0 49 | 22 30 | 0 23 | 2 51 | 2 50 | 24 0 | 0 18 | 23 3 | 0 38 | 17 9 | 4 49 | 17 57 | 18 18 | 17 16 | | n.a. |
| M13 | 6 51 | 25 33 | 2 26 | 2 1 | 1 19 | 5 44 | 1 37 | 0 35 | 0 49 | 22 30 | 0 23 | 2 50 | 2 50 | 24 0 | 0 18 | 23 3 | 0 38 | 17 9 | 4 49 | 17 58 | 18 18 | 17 18 | | n.a. |
| T 14 | 7 15 | 27 11 | 3 29 | 2 45 | 1 13 | 5 15 | 1 37 | 0 18 | 0 49 | 22 29 | 0 23 | 2 48 | 2 50 | 24 0 | 0 18 | 23 3 | 0 38 | 17 9 | 4 49 | 17 58 | 18 17 | 17 21 | | n.a. |
| W15 | 7 38 | 27 3 | 4 19 | 3 29 | 1 7 | 4 46 | 1 38 | 0 1 | 0 48 | 22 29 | 0 23 | 2 46 | 2 50 | 24 0 | 0 18 | 23 3 | 0 38 | 17 8 | 4 49 | 17 58 | 18 16 | 17 24 | | n.a. |
| T 16 | 8 1 | 25 18 | 4 53 | 4 13 | 1 1 | 4 17 | 1 38 | 0s15 | 0 48 | 22 29 | 0 23 | 2 44 | 2 50 | 24 0 | 0 18 | 23 3 | 0 38 | 17 8 | 4 49 | 17 58 | 18 15 | 17 27 | | n.a. |
| F 17 | 8 24 | 22 12 | 5 11 | 4 57 | 0 55 | 3 47 | 1 38 | 0 32 | 0 47 | 22 29 | 0 22 | 2 42 | 2 50 | 24 0 | 0 18 | 23 3 | 0 38 | 17 8 | 4 49 | 17 58 | 18 14 | 17 29 | | n.a. |
| S 18 | 8 47 | 18 5 | 5 12 | 5 41 | 0 48 | 3 17 | 1 39 | 0 49 | 0 47 | 22 29 | 0 22 | 2 40 | 2 50 | 24 0 | 0 18 | 23 3 | 0 38 | 17 8 | 4 49 | 17 57 | 18 13 | 17 32 | | n.a. |
| S 19 | 9 10 | 13 15 | 4 58 | 6 24 | 0 42 | 2 48 | 1 39 | 1 5 | 0 47 | 22 29 | 0 22 | 2 39 | 2 50 | 24 0 | 0 18 | 23 3 | 0 38 | 17 8 | 4 49 | 17 56 | 18 13 | 17 35 | | n.a. |
| M20 | 9 32 | 7 56 | 4 30 | 7 7 | 0 35 | 2 18 | 1 39 | 1 22 | 0 46 | 22 28 | 0 22 | 2 37 | 2 50 | 24 0 | 0 18 | 23 3 | 0 38 | 17 8 | 4 49 | 17 55 | 18 12 | 17 37 | | n.a. |
| T 21 | 9 55 | 2 25 | 3 50 | 7 50 | 0 29 | 1 48 | 1 39 | 1 39 | 0 46 | 22 28 | 0 22 | 2 35 | 2 50 | 24 0 | 0 18 | 23 3 | 0 38 | 17 7 | 4 49 | 17 54 | 18 11 | 17 40 | | n.a. |
| W22 | 10 17 | 3s 9 | 3 0 | 8 32 | 0 22 | 1 18 | 1 39 | 1 56 | 0 45 | 22 28 | 0 22 | 2 33 | 2 50 | 24 0 | 0 18 | 23 3 | 0 38 | 17 7 | 4 49 | 17 53 | 18 10 | 17 43 | | n.a. |
| T 23 | 10 39 | 8 33 | 2 3 | 9 14 | 0 16 | 0 47 | 1 39 | 2 12 | 0 45 | 22 28 | 0 22 | 2 32 | 2 50 | 24 0 | 0 18 | 23 3 | 0 38 | 17 7 | 4 49 | 17 52 | 18 9 | 17 45 | | n.a. |
| F 24 | 11 1 | 13 36 | 1 0 | 9 55 | 0 9 | 0 17 | 1 39 | 2 29 | 0 45 | 22 27 | 0 22 | 2 30 | 2 50 | 24 0 | 0 18 | 23 3 | 0 38 | 17 7 | 4 49 | 17 51 | 18 8 | 17 48 | | n.a. |
| S 25 | 11 23 | 18 8 | 0s 4 | 10 36 | 0 2 | 0s13 | 1 39 | 2 46 | 0 44 | 22 27 | 0 22 | 2 28 | 2 49 | 24 0 | 0 18 | 23 3 | 0 38 | 17 7 | 4 49 | 17 51 | 18 7 | 17 51 | | n.a. |
| S 26 | 11 45 | 21 58 | 1 9 | 11 17 | 0s 4 | 0 43 | 1 38 | 3 2 | 0 44 | 22 27 | 0 22 | 2 26 | 2 49 | 24 0 | 0 18 | 23 3 | 0 38 | 17 7 | 4 49 | 17 51 | 18 7 | 17 53 | | n.a. |
| M27 | 12 6 | 24 54 | 2 11 | 11 57 | 0 11 | 1 14 | 1 38 | 3 19 | 0 43 | 22 26 | 0 22 | 2 25 | 2 49 | 24 0 | 0 18 | 23 3 | 0 38 | 17 7 | 4 49 | 17 52 | 18 6 | 17 56 | | n.a. |
| T 28 | 12 27 | 26 46 | 3 7 | 12 36 | 0 17 | 1 44 | 1 37 | 3 36 | 0 43 | 22 26 | 0 22 | 2 23 | 2 49 | 24 0 | 0 18 | 23 3 | 0 38 | 17 6 | 4 49 | 17 52 | 18 5 | 17 59 | | n.a. |
| W29 | 12 48 | 27 24 | 3 57 | 13 15 | 0 24 | 2 14 | 1 37 | 3 52 | 0 42 | 22 25 | 0 21 | 2 22 | 2 49 | 24 0 | 0 18 | 23 3 | 0 38 | 17 6 | 4 49 | 17 52 | 18 4 | 18 1 | | n.a. |
| T 30 | 13 9 | 26 43 | 4 36 | 13 53 | 0 30 | 2 45 | 1 36 | 4 9 | 0 42 | 22 25 | 0 21 | 2 20 | 2 49 | 24 0 | 0 18 | 23 3 | 0 38 | 17 6 | 4 49 | 17 53 | 18 3 | 18 4 | | n.a. |
| F 31 | 13s30 | 24s42 | 5s 3 | 14s31 | 0s36 | 3s15 | 1n35 | 4s26 | 0n42 | 22n24 | 0s21 | 2n18 | 2s49 | 24n 0 | 0n18 | 23n 3 | 0s38 | 17n 6 | 4s49 | 17n53 | 18n 2 | 18s 6 | | n.a. |

Julian Day Number = 1698320.5, Delta T = 03h06m53s
Ecliptic obliquity = 23°42'16, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°56'14, Lahiri = - 4°49'13 Julian Calendar 1 Oct. 64 BCE == Greg. Calendar 29 Sept. 064 BCE

The year -63 astronomical counting style corresponds to year 064 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 64 BCE
# geocentric

## NOVEMBER 64 BCE (-63) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 30 7 | 6♏30'11 | 15♒29 | 8♏23 | 13♎ 2 | 13♎22 | 14°R 7 | 12°R10 | 28°R34 | 2°R14 | 7°R49 | 19°R48 | 20♉20 | 20♏41 | n.a. | S 1 |
| S 2 | 2 34 3 | 7°31'08 | 28°46 | 9°57 | 14°18 | 14° 4 | 14♊ 2 | 12♈ 6 | 28♊33 | 2♋14 | 7♊48 | 19♉47 | 20°16 | 20°48 | n.a. | S 2 |
| M 3 | 2 38 0 | 8°32'06 | 12♓30 | 11°32 | 15°33 | 14°45 | 13°57 | 12° 2 | 28°32 | 2°13 | 7°47 | 19°46 | 20°13 | 20°54 | n.a. | M 3 |
| T 4 | 2 41 56 | 9°33'05 | 26°42 | 13° 6 | 16°48 | 15°26 | 13°51 | 11°58 | 28°30 | 2°12 | 7°46 | 19°45 | 20°10 | 21° 1 | n.a. | T 4 |
| W 5 | 2 45 53 | 10°34'05 | 11♈20 | 14°40 | 18° 3 | 16° 7 | 13°46 | 11°54 | 28°29 | 2°11 | 7°45 | 19°43 | 20° 7 | 21° 8 | n.a. | W 5 |
| T 6 | 2 49 49 | 11°35'05 | 26°18 | 16°14 | 19°18 | 16°49 | 13°40 | 11°50 | 28°27 | 2°10 | 7°44 | 19°42 | 20° 4 | 21°14 | n.a. | T 6 |
| F 7 | 2 53 46 | 12°36'07 | 11♉29 | 17°48 | 20°33 | 17°30 | 13°34 | 11°46 | 28°26 | 2° 9 | 7°43 | 19°42 | 20° 0 | 21°21 | n.a. | F 7 |
| S 8 | 2 57 43 | 13°37'09 | 26°43 | 19°22 | 21°49 | 18°12 | 13°28 | 11°42 | 28°24 | 2° 8 | 7°41 | 19°D42 | 19°57 | 21°28 | n.a. | S 8 |
| S 9 | 3 1 39 | 14°38'13 | 11♊51 | 20°56 | 23° 4 | 18°53 | 13°22 | 11°39 | 28°23 | 2° 7 | 7°40 | 19°42 | 19°54 | 21°34 | n.a. | S 9 |
| M10 | 3 5 36 | 15°39'17 | 26°43 | 22°30 | 24°19 | 19°35 | 13°15 | 11°35 | 28°21 | 2° 6 | 7°39 | 19°43 | 19°51 | 21°41 | n.a. | M10 |
| T 11 | 3 9 32 | 16°40'23 | 11♋14 | 24° 4 | 25°34 | 20°16 | 13° 9 | 11°32 | 28°19 | 2° 5 | 7°38 | 19°43 | 19°48 | 21°47 | n.a. | T 11 |
| W12 | 3 13 29 | 17°41'30 | 25°19 | 25°38 | 26°50 | 20°58 | 13° 2 | 11°28 | 28°17 | 2° 4 | 7°37 | 19°43 | 19°45 | 21°54 | n.a. | W12 |
| T 13 | 3 17 25 | 18°42'38 | 8♌58 | 27°12 | 28° 5 | 21°39 | 12°55 | 11°25 | 28°16 | 2° 3 | 7°36 | 19°43 | 19°41 | 22° 1 | n.a. | T 13 |
| F 14 | 3 21 22 | 19°43'46 | 22°11 | 28°46 | 29°20 | 22°21 | 12°48 | 11°21 | 28°14 | 2° 2 | 7°35 | 19°43 | 19°38 | 22° 7 | n.a. | F 14 |
| S 15 | 3 25 19 | 20°44'56 | 5♍ 2 | 0♐21 | 0♏35 | 23° 3 | 12°41 | 11°18 | 28°12 | 2° 1 | 7°34 | 19°43 | 19°35 | 22°14 | n.a. | S 15 |
| S 16 | 3 29 15 | 21°46'07 | 17°33 | 1°55 | 1°51 | 23°45 | 12°34 | 11°15 | 28°10 | 1°59 | 7°32 | 19°44 | 19°32 | 22°21 | n.a. | S 16 |
| M17 | 3 33 12 | 22°47'18 | 29°49 | 3°29 | 3° 6 | 24°26 | 12°27 | 11°12 | 28° 8 | 1°58 | 7°31 | 19°44 | 19°29 | 22°27 | n.a. | M17 |
| T 18 | 3 37 8 | 23°48'30 | 11♎53 | 5° 3 | 4°21 | 25° 8 | 12°20 | 11° 9 | 28° 6 | 1°57 | 7°30 | 19°44 | 19°26 | 22°34 | n.a. | T 18 |
| W19 | 3 41 5 | 24°49'43 | 23°49 | 6°37 | 5°37 | 25°50 | 12°12 | 11° 6 | 28° 4 | 1°56 | 7°29 | 19°45 | 19°22 | 22°41 | n.a. | W19 |
| T 20 | 3 45 1 | 25°50'57 | 5♏39 | 8°11 | 6°52 | 26°32 | 12° 5 | 11° 4 | 28° 2 | 1°54 | 7°28 | 19°45 | 19°19 | 22°47 | n.a. | T 20 |
| F 21 | 3 48 58 | 26°52'11 | 17°27 | 9°45 | 8° 7 | 27°14 | 11°57 | 11° 1 | 28° 0 | 1°53 | 7°26 | 19°R46 | 19°16 | 22°54 | n.a. | F 21 |
| S 22 | 3 52 54 | 27°53'26 | 29°14 | 11°19 | 9°23 | 27°56 | 11°50 | 10°58 | 27°58 | 1°52 | 7°25 | 19°45 | 19°13 | 23° 1 | n.a. | S 22 |
| S 23 | 3 56 51 | 28°54'41 | 11♐ 3 | 12°52 | 10°38 | 28°38 | 11°42 | 10°56 | 27°56 | 1°50 | 7°24 | 19°45 | 19°10 | 23° 7 | n.a. | S 23 |
| M24 | 4 0 48 | 29°55'56 | 22°55 | 14°25 | 11°54 | 29°20 | 11°34 | 10°54 | 27°53 | 1°49 | 7°23 | 19°44 | 19° 6 | 23°14 | n.a. | M24 |
| T 25 | 4 4 44 | 0♑57'12 | 4♑54 | 15°58 | 13° 9 | 0♏ 2 | 11°26 | 10°51 | 27°51 | 1°48 | 7°22 | 19°42 | 19° 3 | 23°21 | n.a. | T 25 |
| W26 | 4 8 41 | 1°58'27 | 17° 1 | 17°30 | 14°24 | 0°44 | 11°18 | 10°49 | 27°49 | 1°46 | 7°20 | 19°40 | 19° 0 | 23°27 | n.a. | W26 |
| T 27 | 4 12 37 | 2°59'43 | 29°19 | 19° 1 | 15°40 | 1°26 | 11°10 | 10°47 | 27°47 | 1°45 | 7°19 | 19°38 | 18°57 | 23°34 | n.a. | T 27 |
| F 28 | 4 16 34 | 4° 0'59 | 11♒50 | 20°31 | 16°55 | 2° 8 | 11° 2 | 10°45 | 27°44 | 1°43 | 7°18 | 19°37 | 18°54 | 23°40 | n.a. | F 28 |
| S 29 | 4 20 30 | 5° 2'14 | 24°39 | 22° 0 | 18°11 | 2°50 | 10°54 | 10°43 | 27°42 | 1°42 | 7°17 | 19°36 | 18°51 | 23°47 | n.a. | S 29 |
| S 30 | 4 24 27 | 6♐ 3'30 | 7♓48 | 23♐28 | 19♏26 | 3♏32 | 10♊46 | 10♈42 | 27♊40 | 1♋40 | 7♊16 | 19°D35 | 18♉47 | 23♏54 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 13s50 | 21s24 | 5s16 | 15s 8 | 0s43 | 3s45 | 1n35 | 4s42 | 0n41 | 22n24 | 0s21 | 2n17 | 2s48 | 24n 0 | 0n18 | 23n 3 | 0s38 | 17n 6 | 4s49 | 17n53 | 18n 1 | 18s 9 | | n.a. |
| S 2 | 14 10 | 16 55 | 5 13 | 15 44 | 0 49 | 4 15 | 1 34 | 4 59 | 0 41 | 22 23 | 0 21 | 2 15 | 2 48 | 24 0 | 0 18 | 23 3 | 0 38 | 17 6 | 4 49 | 17 53 | 18 1 | 18 12 | | n.a. |
| M 3 | 14 30 | 11 26 | 4 53 | 16 20 | 0 55 | 4 45 | 1 33 | 5 15 | 0 40 | 22 23 | 0 21 | 2 14 | 2 48 | 24 0 | 0 18 | 23 3 | 0 38 | 17 5 | 4 49 | 17 52 | 18 0 | 18 14 | | n.a. |
| T 4 | 14 50 | 5 12 | 4 14 | 16 54 | 1 1 | 5 15 | 1 32 | 5 32 | 0 40 | 22 22 | 0 21 | 2 13 | 2 48 | 24 0 | 0 18 | 23 3 | 0 38 | 17 5 | 4 49 | 17 52 | 17 59 | 18 17 | | n.a. |
| W 5 | 15 9 | 1n30 | 3 18 | 17 28 | 1 6 | 5 45 | 1 31 | 5 49 | 0 39 | 22 22 | 0 21 | 2 11 | 2 48 | 24 0 | 0 18 | 23 3 | 0 38 | 17 5 | 4 49 | 17 52 | 17 58 | 18 20 | | n.a. |
| T 6 | 15 29 | 8 18 | 2 6 | 18 2 | 1 12 | 6 15 | 1 30 | 6 5 | 0 39 | 22 21 | 0 21 | 2 10 | 2 48 | 24 0 | 0 18 | 23 3 | 0 38 | 17 5 | 4 49 | 17 51 | 17 57 | 18 22 | | n.a. |
| F 7 | 15 47 | 14 43 | 0 46 | 18 34 | 1 18 | 6 45 | 1 29 | 6 21 | 0 38 | 22 20 | 0 21 | 2 8 | 2 47 | 24 0 | 0 19 | 23 3 | 0 38 | 17 5 | 4 49 | 17 51 | 17 56 | 18 25 | | n.a. |
| S 8 | 16 6 | 20 16 | 0n39 | 19 5 | 1 23 | 7 14 | 1 28 | 6 38 | 0 38 | 22 20 | 0 20 | 2 7 | 2 47 | 24 0 | 0 19 | 23 3 | 0 38 | 17 5 | 4 49 | 17 51 | 17 55 | 18 27 | | n.a. |
| S 9 | 16 24 | 24 26 | 2 0 | 19 36 | 1 28 | 7 44 | 1 26 | 6 54 | 0 37 | 22 19 | 0 20 | 2 6 | 2 47 | 24 0 | 0 19 | 23 3 | 0 38 | 17 4 | 4 49 | 17 51 | 17 55 | 18 30 | | n.a. |
| M10 | 16 42 | 26 52 | 3 12 | 20 6 | 1 33 | 8 13 | 1 25 | 7 11 | 0 37 | 22 18 | 0 20 | 2 5 | 2 47 | 24 0 | 0 19 | 23 3 | 0 38 | 17 4 | 4 49 | 17 51 | 17 54 | 18 33 | | n.a. |
| T 11 | 17 0 | 27 22 | 4 9 | 20 34 | 1 38 | 8 42 | 1 24 | 7 27 | 0 36 | 22 18 | 0 20 | 2 3 | 2 47 | 24 0 | 0 19 | 23 3 | 0 38 | 17 4 | 4 49 | 17 52 | 17 53 | 18 35 | | n.a. |
| W12 | 17 18 | 26 3 | 4 50 | 21 2 | 1 42 | 9 11 | 1 22 | 7 43 | 0 36 | 22 17 | 0 20 | 2 2 | 2 46 | 24 0 | 0 19 | 23 3 | 0 38 | 17 4 | 4 49 | 17 52 | 17 52 | 18 38 | | n.a. |
| T 13 | 17 35 | 23 14 | 5 13 | 21 28 | 1 46 | 9 39 | 1 21 | 7 59 | 0 35 | 22 16 | 0 20 | 2 1 | 2 46 | 24 0 | 0 19 | 23 3 | 0 38 | 17 4 | 4 49 | 17 52 | 17 51 | 18 40 | | n.a. |
| F 14 | 17 52 | 19 16 | 5 18 | 21 54 | 1 50 | 10 8 | 1 19 | 8 15 | 0 35 | 22 16 | 0 20 | 2 0 | 2 46 | 24 0 | 0 19 | 23 3 | 0 38 | 17 4 | 4 49 | 17 52 | 17 50 | 18 43 | | n.a. |
| S 15 | 18 8 | 14 31 | 5 7 | 22 18 | 1 54 | 10 36 | 1 17 | 8 31 | 0 34 | 22 15 | 0 20 | 1 59 | 2 46 | 24 0 | 0 19 | 23 3 | 0 38 | 17 3 | 4 49 | 17 52 | 17 49 | 18 46 | | n.a. |
| S 16 | 18 24 | 9 17 | 4 41 | 22 41 | 1 58 | 11 4 | 1 16 | 8 48 | 0 34 | 22 14 | 0 20 | 1 58 | 2 45 | 24 0 | 0 19 | 23 3 | 0 38 | 17 3 | 4 49 | 17 52 | 17 49 | 18 48 | | n.a. |
| M17 | 18 40 | 3 47 | 4 4 | 23 3 | 2 1 | 11 31 | 1 14 | 9 4 | 0 33 | 22 13 | 0 19 | 1 57 | 2 45 | 24 0 | 0 19 | 23 3 | 0 38 | 17 3 | 4 49 | 17 52 | 17 48 | 18 51 | | n.a. |
| T 18 | 18 56 | 1s45 | 3 15 | 23 24 | 2 4 | 11 59 | 1 12 | 9 19 | 0 33 | 22 12 | 0 19 | 1 56 | 2 45 | 24 0 | 0 19 | 23 3 | 0 38 | 17 3 | 4 49 | 17 52 | 17 47 | 18 53 | | n.a. |
| W19 | 19 11 | 7 11 | 2 19 | 23 43 | 2 6 | 12 26 | 1 10 | 9 35 | 0 32 | 22 11 | 0 19 | 1 55 | 2 45 | 24 0 | 0 19 | 23 3 | 0 38 | 17 3 | 4 49 | 17 52 | 17 46 | 18 56 | | n.a. |
| T 20 | 19 26 | 12 20 | 1 18 | 24 1 | 2 8 | 12 53 | 1 9 | 9 51 | 0 32 | 22 11 | 0 19 | 1 54 | 2 44 | 24 0 | 0 19 | 23 3 | 0 38 | 17 3 | 4 49 | 17 52 | 17 45 | 18 58 | | n.a. |
| F 21 | 19 40 | 17 1 | 0 13 | 24 18 | 2 10 | 13 19 | 1 7 | 10 7 | 0 31 | 22 10 | 0 19 | 1 54 | 2 44 | 24 0 | 0 19 | 23 3 | 0 38 | 17 2 | 4 49 | 17 52 | 17 44 | 19 1 | | n.a. |
| S 22 | 19 55 | 21 4 | 0s52 | 24 33 | 2 11 | 13 45 | 1 5 | 10 23 | 0 31 | 22 9 | 0 19 | 1 53 | 2 44 | 24 0 | 0 19 | 23 3 | 0 38 | 17 2 | 4 49 | 17 52 | 17 43 | 19 4 | | n.a. |
| S 23 | 20 8 | 24 15 | 1 56 | 24 47 | 2 12 | 14 11 | 1 3 | 10 38 | 0 30 | 22 8 | 0 19 | 1 52 | 2 44 | 24 0 | 0 19 | 23 3 | 0 38 | 17 2 | 4 49 | 17 52 | 17 42 | 19 6 | | n.a. |
| M24 | 20 22 | 26 24 | 2 54 | 24 59 | 2 12 | 14 37 | 1 1 | 10 54 | 0 29 | 22 7 | 0 18 | 1 51 | 2 43 | 24 0 | 0 19 | 23 3 | 0 38 | 17 2 | 4 49 | 17 52 | 17 42 | 19 9 | | n.a. |
| T 25 | 20 35 | 27 22 | 3 45 | 25 9 | 2 12 | 15 2 | 0 59 | 11 9 | 0 29 | 22 6 | 0 18 | 1 51 | 2 43 | 24 0 | 0 19 | 23 3 | 0 38 | 17 2 | 4 49 | 17 51 | 17 41 | 19 11 | | n.a. |
| W26 | 20 47 | 27 1 | 4 27 | 25 18 | 2 12 | 15 26 | 0 57 | 11 25 | 0 28 | 22 5 | 0 18 | 1 50 | 2 43 | 24 0 | 0 19 | 23 4 | 0 38 | 17 2 | 4 49 | 17 51 | 17 40 | 19 14 | | n.a. |
| T 27 | 20 59 | 25 21 | 4 57 | 25 25 | 2 10 | 15 51 | 0 54 | 11 40 | 0 28 | 22 4 | 0 18 | 1 50 | 2 43 | 24 0 | 0 19 | 23 4 | 0 38 | 17 1 | 4 49 | 17 50 | 17 39 | 19 16 | | n.a. |
| F 28 | 21 11 | 22 26 | 5 14 | 25 30 | 2 9 | 16 14 | 0 52 | 11 55 | 0 27 | 22 3 | 0 18 | 1 49 | 2 42 | 24 0 | 0 19 | 23 4 | 0 38 | 17 1 | 4 49 | 17 50 | 17 38 | 19 19 | | n.a. |
| S 29 | 21 22 | 18 23 | 5 15 | 25 33 | 2 6 | 16 38 | 0 50 | 12 10 | 0 27 | 22 2 | 0 18 | 1 49 | 2 42 | 24 0 | 0 19 | 23 4 | 0 38 | 17 1 | 4 49 | 17 50 | 17 37 | 19 21 | | n.a. |
| S 30 | 21s33 | 13s22 | 5s 1 | 25s35 | 2s 3 | 17s 1 | 0n48 | 12s26 | 0n26 | 22n 1 | 0s18 | 1n48 | 2s42 | 24n 0 | 0n19 | 23n 4 | 0s38 | 17n 1 | 4s49 | 17n49 | 17n36 | 19s24 | | n.a. |

Julian Day Number = 1698351.5, Delta T = 03h06m52s
Ecliptic obliquity = 23°42'16, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°56'10, Lahiri = - 4°49'09 Julian Calendar 1 Nov. 64 BCE == Greg. Calendar 30 Oct. 064 BCE

The year -63 astronomical counting style corresponds to year 064 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 64 BCE
# geocentric

## DECEMBER 64 BCE (-63) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 4 28 23 | 7♐ 4'45 | 21♓20 | 24♐53 | 20♏41 | 4♏15 | 10°R38 | 10°R40 | 27°R37 | 1°R39 | 7°R14 | 19♉36 | 18♉44 | 24♏ 0 | n.a. | M 1 |
| T 2 | 4 32 20 | 8° 5'59 | 5♈17 | 26°17 | 21°57 | 4°57 | 10♊30 | 10♈38 | 27♊35 | 1♋37 | 7♊13 | 19°37 | 18°41 | 24° 7 | n.a. | T 2 |
| W 3 | 4 36 17 | 9° 7'14 | 19°37 | 27°38 | 23°12 | 5°39 | 10°22 | 10°37 | 27°33 | 1°36 | 7°12 | 19°38 | 18°38 | 24°14 | n.a. | W 3 |
| T 4 | 4 40 13 | 10° 8'28 | 4♉21 | 28°57 | 24°27 | 6°21 | 10°14 | 10°36 | 27°30 | 1°34 | 7°11 | 19°40 | 18°35 | 24°20 | n.a. | T 4 |
| F 5 | 4 44 10 | 11° 9'42 | 19°21 | 0♑11 | 25°43 | 7° 4 | 10° 6 | 10°35 | 27°28 | 1°33 | 7° 9 | 19°R40 | 18°32 | 24°27 | n.a. | F 5 |
| S 6 | 4 48 6 | 12°10'56 | 4♊32 | 1°22 | 26°58 | 7°46 | 9°58 | 10°34 | 27°25 | 1°31 | 7° 8 | 19°40 | 18°28 | 24°34 | n.a. | S 6 |
| S 7 | 4 52 3 | 13°12'09 | 19°43 | 2°28 | 28°14 | 8°29 | 9°49 | 10°33 | 27°23 | 1°30 | 7° 7 | 19°38 | 18°25 | 24°40 | n.a. | S 7 |
| M 8 | 4 55 59 | 14°13'23 | 4♋45 | 3°29 | 29°29 | 9°11 | 9°41 | 10°32 | 27°20 | 1°28 | 7° 6 | 19°35 | 18°22 | 24°47 | n.a. | M 8 |
| T 9 | 4 59 56 | 15°14'36 | 19°29 | 4°23 | 0♐44 | 9°54 | 9°33 | 10°31 | 27°18 | 1°26 | 7° 5 | 19°31 | 18°19 | 24°54 | n.a. | T 9 |
| W10 | 5 3 53 | 16°15'49 | 3♌48 | 5°10 | 2° 0 | 10°36 | 9°25 | 10°30 | 27°15 | 1°25 | 7° 3 | 19°27 | 18°16 | 25° 0 | n.a. | W10 |
| T 11 | 5 7 49 | 17°17'02 | 17°39 | 5°49 | 3°15 | 11°19 | 9°17 | 10°30 | 27°13 | 1°23 | 7° 2 | 19°24 | 18°12 | 25° 7 | n.a. | T 11 |
| F 12 | 5 11 46 | 18°18'15 | 1♍ 2 | 6°19 | 4°30 | 12° 1 | 9° 9 | 10°29 | 27°10 | 1°22 | 7° 1 | 19°21 | 18° 9 | 25°14 | n.a. | F 12 |
| S 13 | 5 15 42 | 19°19'27 | 13°57 | 6°39 | 5°46 | 12°44 | 9° 1 | 10°29 | 27° 7 | 1°20 | 7° 0 | 19°D20 | 18° 6 | 25°20 | n.a. | S 13 |
| S 14 | 5 19 39 | 20°20'40 | 26°30 | 6°R49 | 7° 1 | 13°27 | 8°54 | 10°29 | 27° 5 | 1°18 | 6°59 | 19°20 | 18° 3 | 25°27 | n.a. | S 14 |
| M15 | 5 23 35 | 21°21'52 | 8♎44 | 6°47 | 8°16 | 14° 9 | 8°46 | 10°D29 | 27° 2 | 1°17 | 6°57 | 19°21 | 18° 0 | 25°33 | n.a. | M15 |
| T 16 | 5 27 32 | 22°23'04 | 20°44 | 6°34 | 9°32 | 14°52 | 8°38 | 10°29 | 27° 0 | 1°15 | 6°56 | 19°23 | 17°57 | 25°40 | n.a. | T 16 |
| W17 | 5 31 28 | 23°24'15 | 2♏34 | 6° 9 | 10°47 | 15°35 | 8°30 | 10°29 | 26°57 | 1°13 | 6°55 | 19°25 | 17°53 | 25°47 | n.a. | W17 |
| T 18 | 5 35 25 | 24°25'26 | 14°21 | 5°33 | 12° 2 | 16°18 | 8°23 | 10°29 | 26°55 | 1°12 | 6°54 | 19°R26 | 17°50 | 25°53 | n.a. | T 18 |
| F 19 | 5 39 22 | 25°26'37 | 26° 7 | 4°45 | 13°18 | 17° 1 | 8°15 | 10°30 | 26°52 | 1°10 | 6°53 | 19°26 | 17°47 | 26° 0 | n.a. | F 19 |
| S 20 | 5 43 18 | 26°27'47 | 7♐56 | 3°48 | 14°33 | 17°44 | 8° 8 | 10°30 | 26°49 | 1° 8 | 6°52 | 19°24 | 17°44 | 26° 7 | n.a. | S 20 |
| S 21 | 5 47 15 | 27°28'57 | 19°50 | 2°43 | 15°48 | 18°26 | 8° 1 | 10°31 | 26°47 | 1° 6 | 6°51 | 19°20 | 17°41 | 26°13 | n.a. | S 21 |
| M22 | 5 51 11 | 28°30'06 | 1♑52 | 1°32 | 17° 4 | 19° 9 | 7°54 | 10°32 | 26°44 | 1° 5 | 6°49 | 19°14 | 17°38 | 26°20 | n.a. | M22 |
| T 23 | 5 55 8 | 29°31'14 | 14° 2 | 0°16 | 18°19 | 19°52 | 7°46 | 10°33 | 26°41 | 1° 3 | 6°48 | 19° 7 | 17°34 | 26°27 | n.a. | T 23 |
| W24 | 5 59 4 | 0♑32'21 | 26°23 | 28♐59 | 19°34 | 20°35 | 7°39 | 10°34 | 26°39 | 1° 1 | 6°47 | 18°59 | 17°31 | 26°33 | n.a. | W24 |
| T 25 | 6 3 1 | 1°33'27 | 8♒54 | 27°43 | 20°50 | 21°18 | 7°33 | 10°35 | 26°36 | 1° 0 | 6°46 | 18°51 | 17°28 | 26°40 | n.a. | T 25 |
| F 26 | 6 6 58 | 2°34'32 | 21°38 | 26°29 | 22° 5 | 22° 1 | 7°26 | 10°36 | 26°34 | 0°58 | 6°45 | 18°44 | 17°25 | 26°47 | n.a. | F 26 |
| S 27 | 6 10 54 | 3°35'36 | 4♓35 | 25°20 | 23°20 | 22°45 | 7°19 | 10°37 | 26°31 | 0°56 | 6°44 | 18°38 | 17°22 | 26°53 | n.a. | S 27 |
| S 28 | 6 14 51 | 4°36'39 | 17°46 | 24°18 | 24°36 | 23°28 | 7°13 | 10°39 | 26°29 | 0°55 | 6°43 | 18°35 | 17°18 | 27° 0 | n.a. | S 28 |
| M29 | 6 18 47 | 5°37'40 | 1♈13 | 23°23 | 25°51 | 24°11 | 7° 6 | 10°40 | 26°26 | 0°53 | 6°42 | 18°D33 | 17°15 | 27° 7 | n.a. | M29 |
| T 30 | 6 22 44 | 6°38'40 | 14°58 | 22°36 | 27° 6 | 24°54 | 7° 0 | 10°42 | 26°23 | 0°51 | 6°41 | 18°33 | 17°12 | 27°13 | n.a. | T 30 |
| W31 | 6 26 40 | 7♑39'38 | 29♈ 1 | 21♐58 | 28♐21 | 25♏37 | 6♊54 | 10♈43 | 26♊21 | 0♋50 | 6♊40 | 18♉34 | 17♉ 9 | 27♏20 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| M 1 | 21s44 | 7s35 | 4s29 | 25s35 | 1s59 | 17s23 | 0n46 | 12s41 | 0n25 | 22n 0 | 0s17 | 1n48 | 2s41 | 24n 0 | 0n19 | 23n 4 | 0s38 | 17n 1 | 4s49 | 17n50 | 17n35 | 19s26 | | | n.a. |
| T 2 | 21 54 | 1 16 | 3 42 | 25 33 | 1 54 | 17 45 | 0 43 | 12 55 | 0 25 | 21 59 | 0 17 | 1 47 | 2 41 | 24 0 | 0 19 | 23 4 | 0 38 | 17 1 | 4 49 | 17 50 | 17 34 | 19 29 | | | n.a. |
| W 3 | 22 4 | 5n19 | 2 39 | 25 29 | 1 48 | 18 7 | 0 41 | 13 10 | 0 24 | 21 58 | 0 17 | 1 47 | 2 41 | 24 0 | 0 19 | 23 4 | 0 38 | 17 1 | 4 49 | 17 50 | 17 34 | 19 31 | | | n.a. |
| T 4 | 22 13 | 11 48 | 1 24 | 25 24 | 1 42 | 18 28 | 0 39 | 13 25 | 0 24 | 21 57 | 0 17 | 1 47 | 2 41 | 24 0 | 0 19 | 23 4 | 0 38 | 17 0 | 4 49 | 17 51 | 17 33 | 19 34 | | | n.a. |
| F 5 | 22 22 | 17 44 | 0 2 | 25 16 | 1 34 | 18 49 | 0 36 | 13 40 | 0 23 | 21 56 | 0 17 | 1 47 | 2 40 | 24 0 | 0 19 | 23 4 | 0 38 | 17 0 | 4 48 | 17 51 | 17 32 | 19 36 | | | n.a. |
| S 6 | 22 30 | 22 37 | 1n21 | 25 7 | 1 25 | 19 9 | 0 34 | 13 54 | 0 22 | 21 55 | 0 17 | 1 47 | 2 40 | 24 0 | 0 19 | 23 4 | 0 38 | 17 0 | 4 48 | 17 51 | 17 31 | 19 39 | | | n.a. |
| S 7 | 22 38 | 25 56 | 2 38 | 24 57 | 1 16 | 19 28 | 0 32 | 14 8 | 0 22 | 21 54 | 0 17 | 1 46 | 2 40 | 24 0 | 0 19 | 23 4 | 0 38 | 17 0 | 4 48 | 17 50 | 17 30 | 19 41 | | | n.a. |
| M 8 | 22 46 | 27 20 | 3 43 | 24 44 | 1 5 | 19 47 | 0 29 | 14 23 | 0 21 | 21 53 | 0 16 | 1 46 | 2 39 | 24 0 | 0 19 | 23 4 | 0 38 | 17 0 | 4 48 | 17 49 | 17 29 | 19 44 | | | n.a. |
| T 9 | 22 53 | 26 46 | 4 32 | 24 31 | 0 53 | 20 6 | 0 27 | 14 37 | 0 21 | 21 52 | 0 16 | 1 46 | 2 39 | 24 0 | 0 19 | 23 4 | 0 38 | 17 0 | 4 48 | 17 48 | 17 28 | 19 46 | | | n.a. |
| W10 | 22 59 | 24 25 | 5 3 | 24 16 | 0 40 | 20 23 | 0 24 | 14 51 | 0 20 | 21 51 | 0 16 | 1 46 | 2 39 | 24 0 | 0 19 | 23 4 | 0 38 | 17 0 | 4 48 | 17 47 | 17 27 | 19 49 | | | n.a. |
| T 11 | 23 5 | 20 41 | 5 14 | 24 0 | 0 26 | 20 41 | 0 22 | 15 5 | 0 19 | 21 50 | 0 16 | 1 46 | 2 38 | 24 0 | 0 19 | 23 4 | 0 38 | 17 0 | 4 48 | 17 46 | 17 26 | 19 51 | | | n.a. |
| F 12 | 23 11 | 16 1 | 5 8 | 23 43 | 0 10 | 20 57 | 0 20 | 15 19 | 0 19 | 21 48 | 0 16 | 1 47 | 2 38 | 24 0 | 0 19 | 23 4 | 0 38 | 16 59 | 4 48 | 17 46 | 17 26 | 19 54 | | | n.a. |
| S 13 | 23 16 | 10 46 | 4 46 | 23 26 | 0n 6 | 21 13 | 0 17 | 15 33 | 0 18 | 21 47 | 0 16 | 1 47 | 2 38 | 23 59 | 0 19 | 23 4 | 0 38 | 16 59 | 4 48 | 17 45 | 17 25 | 19 56 | | | n.a. |
| S 14 | 23 21 | 5 14 | 4 11 | 23 8 | 0 24 | 21 29 | 0 15 | 15 46 | 0 17 | 21 46 | 0 15 | 1 47 | 2 38 | 23 59 | 0 19 | 23 4 | 0 38 | 16 59 | 4 48 | 17 45 | 17 24 | 19 59 | | | n.a. |
| M15 | 23 25 | 0s22 | 3 25 | 22 50 | 0 42 | 21 44 | 0 12 | 16 0 | 0 17 | 21 45 | 0 15 | 1 47 | 2 37 | 23 59 | 0 19 | 23 4 | 0 38 | 16 59 | 4 48 | 17 46 | 17 23 | 20 1 | | | n.a. |
| T 16 | 23 29 | 5 51 | 2 31 | 22 32 | 1 1 | 21 58 | 0 10 | 16 13 | 0 16 | 21 44 | 0 15 | 1 48 | 2 37 | 23 59 | 0 19 | 23 4 | 0 38 | 16 59 | 4 48 | 17 46 | 17 22 | 20 4 | | | n.a. |
| W17 | 23 32 | 11 5 | 1 31 | 22 14 | 1 20 | 22 11 | 0 7 | 16 26 | 0 15 | 21 43 | 0 15 | 1 48 | 2 37 | 23 59 | 0 19 | 23 4 | 0 38 | 16 59 | 4 48 | 17 46 | 17 21 | 20 6 | | | n.a. |
| T 18 | 23 35 | 15 53 | 0 28 | 21 56 | 1 39 | 22 24 | 0 5 | 16 40 | 0 15 | 21 42 | 0 15 | 1 48 | 2 36 | 23 59 | 0 19 | 23 4 | 0 38 | 16 59 | 4 47 | 17 47 | 17 20 | 20 9 | | | n.a. |
| F 19 | 23 37 | 20 5 | 0s36 | 21 39 | 1 58 | 22 37 | 0 2 | 16 53 | 0 14 | 21 41 | 0 15 | 1 49 | 2 36 | 23 59 | 0 19 | 23 4 | 0 38 | 16 59 | 4 47 | 17 47 | 17 19 | 20 11 | | | n.a. |
| S 20 | 23 39 | 23 30 | 1 39 | 21 23 | 2 16 | 22 48 | 0s 0 | 17 5 | 0 13 | 21 40 | 0 14 | 1 49 | 2 36 | 23 59 | 0 19 | 23 4 | 0 38 | 16 59 | 4 47 | 17 46 | 17 18 | 20 14 | | | n.a. |
| S 21 | 23 41 | 25 56 | 2 38 | 21 7 | 2 33 | 22 59 | 0 3 | 17 18 | 0 13 | 21 39 | 0 14 | 1 50 | 2 35 | 23 59 | 0 19 | 23 4 | 0 38 | 16 58 | 4 47 | 17 45 | 17 18 | 20 16 | | | n.a. |
| M22 | 23 42 | 27 12 | 3 30 | 20 53 | 2 48 | 23 9 | 0 5 | 17 31 | 0 12 | 21 38 | 0 14 | 1 50 | 2 35 | 23 59 | 0 19 | 23 4 | 0 38 | 16 58 | 4 47 | 17 44 | 17 17 | 20 18 | | | n.a. |
| T 23 | 23 42 | 27 9 | 4 13 | 20 40 | 3 2 | 23 18 | 0 7 | 17 43 | 0 11 | 21 37 | 0 14 | 1 51 | 2 35 | 23 59 | 0 19 | 23 4 | 0 38 | 16 58 | 4 47 | 17 42 | 17 16 | 20 21 | | | n.a. |
| W24 | 23 42 | 25 47 | 4 45 | 20 29 | 3 13 | 23 27 | 0 10 | 17 56 | 0 11 | 21 36 | 0 14 | 1 52 | 2 34 | 23 59 | 0 19 | 23 4 | 0 38 | 16 58 | 4 47 | 17 39 | 17 15 | 20 23 | | | n.a. |
| T 25 | 23 42 | 23 7 | 5 4 | 20 19 | 3 22 | 23 35 | 0 12 | 18 8 | 0 10 | 21 35 | 0 14 | 1 52 | 2 34 | 23 59 | 0 19 | 23 4 | 0 38 | 16 58 | 4 47 | 17 37 | 17 14 | 20 26 | | | n.a. |
| F 26 | 23 41 | 19 18 | 5 8 | 20 11 | 3 28 | 23 43 | 0 15 | 18 20 | 0 9 | 21 34 | 0 13 | 1 53 | 2 34 | 23 59 | 0 19 | 23 4 | 0 38 | 16 58 | 4 47 | 17 35 | 17 13 | 20 28 | | | n.a. |
| S 27 | 23 39 | 14 32 | 4 57 | 20 5 | 3 32 | 23 49 | 0 17 | 18 31 | 0 8 | 21 33 | 0 13 | 1 54 | 2 34 | 23 59 | 0 19 | 23 4 | 0 38 | 16 58 | 4 47 | 17 34 | 17 12 | 20 30 | | | n.a. |
| S 28 | 23 37 | 9 1 | 4 30 | 20 1 | 3 34 | 23 55 | 0 19 | 18 43 | 0 8 | 21 32 | 0 13 | 1 55 | 2 33 | 23 59 | 0 19 | 23 4 | 0 38 | 16 58 | 4 46 | 17 33 | 17 11 | 20 33 | | | n.a. |
| M29 | 23 35 | 2 59 | 3 48 | 19 59 | 3 33 | 24 0 | 0 22 | 18 55 | 0 7 | 21 31 | 0 13 | 1 56 | 2 33 | 23 59 | 0 19 | 23 4 | 0 38 | 16 58 | 4 46 | 17 32 | 17 10 | 20 35 | | | n.a. |
| T 30 | 23 32 | 3n20 | 2 51 | 19 59 | 3 31 | 24 4 | 0 24 | 19 6 | 0 6 | 21 31 | 0 13 | 1 57 | 2 33 | 23 59 | 0 19 | 23 4 | 0 38 | 16 58 | 4 46 | 17 32 | 17 9 | 20 38 | | | n.a. |
| W31 | 23s29 | 9n38 | 1s44 | 20s 1 | 3n26 | 24s 8 | 0s26 | 19s17 | 0n 6 | 21n30 | 0s13 | 1n57 | 2s32 | 23n58 | 0n19 | 23n 4 | 0s38 | 16n58 | 4s46 | 17n33 | 17n 8 | 20s40 | | | n.a. |

Julian Day Number = 1698381.5, Delta T = 03h06m51s
Ecliptic obliquity = 23°42'15, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°56'05, Lahiri = - 4°49'05 Julian Calendar 1 Dec. 64 BCE == Greg. Calendar 29 Nov. 064 BCE

The year -63 astronomical counting style corresponds to year 064 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 63 BCE
# geocentric

## JANUARY 63 BCE (-62) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 30 37 | 8♑40'35 | 13♉23 | 21°R29 | 29♐36 | 26♏21 | 6°R48 | 10♈45 | 26°R18 | 0°R48 | 6°R39 | 18°R35 | 17♉ 6 | 27♏26 | n.a. | T 1 |
| F 2 | 6 34 33 | 9°41'31 | 28° 1 | 21♐ 9 | 0♑52 | 27° 4 | 6♊42 | 10°47 | 26♊16 | 0♋46 | 6♊38 | 18♉35 | 17° 3 | 27°33 | n.a. | F 2 |
| S 3 | 6 38 30 | 10°42'25 | 12♊51 | 20°56 | 2° 7 | 27°47 | 6°37 | 10°49 | 26°13 | 0°45 | 6°37 | 18°33 | 16°59 | 27°40 | n.a. | S 3 |
| S 4 | 6 42 27 | 11°43'18 | 27°46 | 20°D53 | 3°22 | 28°30 | 6°31 | 10°52 | 26°11 | 0°43 | 6°36 | 18°28 | 16°56 | 27°46 | n.a. | S 4 |
| M 5 | 6 46 23 | 12°44'10 | 12♋38 | 20°56 | 4°37 | 29°14 | 6°26 | 10°54 | 26° 8 | 0°41 | 6°35 | 18°21 | 16°53 | 27°53 | n.a. | M 5 |
| T 6 | 6 50 20 | 13°45'00 | 27°18 | 21° 7 | 5°52 | 29°57 | 6°21 | 10°56 | 26° 6 | 0°40 | 6°34 | 18°12 | 16°50 | 28° 0 | n.a. | T 6 |
| W 7 | 6 54 16 | 14°45'50 | 11♌40 | 21°24 | 7° 8 | 0♐41 | 6°16 | 10°59 | 26° 3 | 0°38 | 6°33 | 18° 2 | 16°47 | 28° 6 | n.a. | W 7 |
| T 8 | 6 58 13 | 15°46'37 | 25°36 | 21°48 | 8°23 | 1°24 | 6°11 | 11° 1 | 26° 1 | 0°36 | 6°32 | 17°53 | 16°44 | 28°13 | n.a. | T 8 |
| F 9 | 7 2 9 | 16°47'24 | 9♍ 6 | 22°17 | 9°38 | 2° 8 | 6° 7 | 11° 4 | 25°59 | 0°35 | 6°31 | 17°46 | 16°40 | 28°20 | n.a. | F 9 |
| S 10 | 7 6 6 | 17°48'09 | 22° 8 | 22°51 | 10°53 | 2°51 | 6° 2 | 11° 7 | 25°56 | 0°33 | 6°30 | 17°40 | 16°37 | 28°26 | n.a. | S 10 |
| S 11 | 7 10 2 | 18°48'54 | 4♎45 | 23°30 | 12° 8 | 3°35 | 5°58 | 11°10 | 25°54 | 0°31 | 6°29 | 17°37 | 16°34 | 28°33 | n.a. | S 11 |
| M12 | 7 13 59 | 19°49'37 | 17° 2 | 24°14 | 13°23 | 4°18 | 5°54 | 11°13 | 25°52 | 0°30 | 6°28 | 17°D36 | 16°31 | 28°40 | n.a. | M12 |
| T 13 | 7 17 56 | 20°50'18 | 29° 3 | 25° 1 | 14°38 | 5° 2 | 5°50 | 11°16 | 25°49 | 0°28 | 6°28 | 17°36 | 16°28 | 28°46 | n.a. | T 13 |
| W14 | 7 21 52 | 21°50'59 | 10♏54 | 25°52 | 15°53 | 5°46 | 5°46 | 11°19 | 25°47 | 0°27 | 6°27 | 17°37 | 16°24 | 28°53 | n.a. | W14 |
| T 15 | 7 25 49 | 22°51'38 | 22°40 | 26°46 | 17° 9 | 6°29 | 5°43 | 11°23 | 25°45 | 0°25 | 6°26 | 17°R37 | 16°21 | 29° 0 | n.a. | T 15 |
| F 16 | 7 29 45 | 23°52'16 | 4♐27 | 27°43 | 18°24 | 7°13 | 5°39 | 11°26 | 25°43 | 0°24 | 6°25 | 17°35 | 16°18 | 29° 6 | n.a. | F 16 |
| S 17 | 7 33 42 | 24°52'53 | 16°19 | 28°43 | 19°39 | 7°57 | 5°36 | 11°30 | 25°40 | 0°22 | 6°24 | 17°31 | 16°15 | 29°13 | n.a. | S 17 |
| S 18 | 7 37 38 | 25°53'28 | 28°20 | 29°46 | 20°54 | 8°40 | 5°33 | 11°33 | 25°38 | 0°21 | 6°24 | 17°24 | 16°12 | 29°20 | n.a. | S 18 |
| M19 | 7 41 35 | 26°54'02 | 10♑32 | 0♑51 | 22° 9 | 9°24 | 5°30 | 11°37 | 25°36 | 0°19 | 6°23 | 17°15 | 16° 9 | 29°26 | n.a. | M19 |
| T 20 | 7 45 31 | 27°54'34 | 22°56 | 1°58 | 23°24 | 10° 8 | 5°28 | 11°41 | 25°34 | 0°18 | 6°22 | 17° 3 | 16° 5 | 29°33 | n.a. | T 20 |
| W21 | 7 49 28 | 28°55'04 | 5♒35 | 3° 8 | 24°39 | 10°52 | 5°25 | 11°45 | 25°32 | 0°16 | 6°22 | 16°50 | 16° 2 | 29°39 | n.a. | W21 |
| T 22 | 7 53 25 | 29°55'33 | 18°26 | 4°19 | 25°54 | 11°36 | 5°23 | 11°49 | 25°30 | 0°15 | 6°21 | 16°37 | 15°59 | 29°46 | n.a. | T 22 |
| F 23 | 7 57 21 | 0♒55'59 | 1♓30 | 5°32 | 27° 9 | 12°20 | 5°21 | 11°53 | 25°28 | 0°13 | 6°20 | 16°25 | 15°56 | 29°53 | n.a. | F 23 |
| S 24 | 8 1 18 | 1°56'24 | 14°45 | 6°47 | 28°24 | 13° 3 | 5°19 | 11°57 | 25°26 | 0°12 | 6°20 | 16°16 | 15°53 | 29°59 | n.a. | S 24 |
| S 25 | 8 5 14 | 2°56'47 | 28°11 | 8° 3 | 29°39 | 13°47 | 5°18 | 12° 1 | 25°24 | 0°11 | 6°19 | 16° 9 | 15°50 | 0♐ 6 | n.a. | S 25 |
| M26 | 8 9 11 | 3°57'07 | 11♈47 | 9°21 | 0♒54 | 14°31 | 5°16 | 12° 6 | 25°22 | 0° 9 | 6°18 | 16° 4 | 15°46 | 0°13 | n.a. | M26 |
| T 27 | 8 13 7 | 4°57'26 | 25°33 | 10°41 | 2° 9 | 15°15 | 5°15 | 12°10 | 25°20 | 0° 8 | 6°18 | 16° 3 | 15°43 | 0°19 | n.a. | T 27 |
| W28 | 8 17 4 | 5°57'42 | 9♉29 | 12° 2 | 3°24 | 15°59 | 5°14 | 12°15 | 25°18 | 0° 7 | 6°17 | 16° 3 | 15°40 | 0°26 | n.a. | W28 |
| T 29 | 8 21 0 | 6°57'56 | 23°36 | 13°24 | 4°38 | 16°43 | 5°13 | 12°19 | 25°17 | 0° 5 | 6°17 | 16° 3 | 15°37 | 0°33 | n.a. | T 29 |
| F 30 | 8 24 57 | 7°58'08 | 7♊53 | 14°48 | 5°53 | 17°27 | 5°13 | 12°24 | 25°15 | 0° 4 | 6°16 | 16° 1 | 15°34 | 0°39 | n.a. | F 30 |
| S 31 | 8 28 54 | 8♒58'18 | 22♊18 | 16♑13 | 7♒ 8 | 18♐11 | 5♊12 | 12♈29 | 25♊13 | 0♋ 3 | 6♊16 | 15♉58 | 15♉30 | 0♐46 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 23 s25 | 15n35 | 0 s28 | 20 s 5 | 3n21 | 24 s11 | 0 s29 | 19 s28 | 0n 5 | 21n29 | 0 s12 | 1n59 | 2 s32 | 23n58 | 0n19 | 23n 4 | 0 s38 | 16n58 | 4 s46 | 17n33 | 17n 8 | 20 s42 | | | n.a. |
| F 2 | 23 21 | 20 45 | 0n51 | 20 11 | 3 14 | 24 13 | 0 31 | 19 39 | 0 4 | 21 28 | 0 12 | 2 0 | 2 32 | 23 58 | 0 19 | 23 4 | 0 38 | 16 58 | 4 46 | 17 33 | 17 7 | 20 45 | | | n.a. |
| S 3 | 23 16 | 24 41 | 2 7 | 20 18 | 3 6 | 24 14 | 0 33 | 19 50 | 0 3 | 21 27 | 0 12 | 2 1 | 2 31 | 23 58 | 0 19 | 23 4 | 0 38 | 16 57 | 4 46 | 17 32 | 17 6 | 20 47 | | | n.a. |
| S 4 | 23 11 | 26 56 | 3 14 | 20 27 | 2 57 | 24 15 | 0 35 | 20 0 | 0 3 | 21 27 | 0 12 | 2 2 | 2 31 | 23 58 | 0 19 | 23 4 | 0 38 | 16 57 | 4 46 | 17 31 | 17 5 | 20 50 | | | n.a. |
| M 5 | 23 5 | 27 13 | 4 9 | 20 36 | 2 48 | 24 15 | 0 37 | 20 11 | 0 2 | 21 26 | 0 12 | 2 3 | 2 31 | 23 58 | 0 19 | 23 4 | 0 38 | 16 57 | 4 46 | 17 29 | 17 4 | 20 52 | | | n.a. |
| T 6 | 22 59 | 25 36 | 4 46 | 20 47 | 2 38 | 24 14 | 0 39 | 20 21 | 0 1 | 21 25 | 0 12 | 2 4 | 2 31 | 23 58 | 0 19 | 23 4 | 0 38 | 16 57 | 4 45 | 17 26 | 17 3 | 20 54 | | | n.a. |
| W 7 | 22 53 | 22 20 | 5 3 | 20 58 | 2 27 | 24 12 | 0 42 | 20 31 | 0 0 | 21 24 | 0 11 | 2 5 | 2 30 | 23 58 | 0 19 | 23 5 | 0 38 | 16 57 | 4 45 | 17 24 | 17 2 | 20 57 | | | n.a. |
| T 8 | 22 46 | 17 52 | 5 3 | 21 10 | 2 17 | 24 10 | 0 44 | 20 41 | 0 s 0 | 21 24 | 0 11 | 2 7 | 2 30 | 23 58 | 0 19 | 23 5 | 0 38 | 16 57 | 4 45 | 17 21 | 17 1 | 20 59 | | | n.a. |
| F 9 | 22 38 | 12 38 | 4 45 | 21 23 | 2 6 | 24 7 | 0 46 | 20 50 | 0 1 | 21 23 | 0 11 | 2 8 | 2 30 | 23 58 | 0 19 | 23 5 | 0 38 | 16 57 | 4 45 | 17 19 | 17 0 | 21 1 | | | n.a. |
| S 10 | 22 30 | 7 1 | 4 12 | 21 35 | 1 55 | 24 3 | 0 48 | 21 0 | 0 2 | 21 22 | 0 11 | 2 10 | 2 29 | 23 58 | 0 19 | 23 5 | 0 38 | 16 57 | 4 45 | 17 17 | 16 59 | 21 4 | | | n.a. |
| S 11 | 22 22 | 1 17 | 3 28 | 21 48 | 1 45 | 23 58 | 0 50 | 21 9 | 0 3 | 21 22 | 0 11 | 2 11 | 2 29 | 23 58 | 0 19 | 23 5 | 0 38 | 16 57 | 4 45 | 17 16 | 16 58 | 21 6 | | | n.a. |
| M12 | 22 13 | 4 s22 | 2 36 | 22 1 | 1 34 | 23 53 | 0 51 | 21 18 | 0 4 | 21 21 | 0 11 | 2 12 | 2 29 | 23 58 | 0 19 | 23 5 | 0 38 | 16 57 | 4 45 | 17 16 | 16 58 | 21 8 | | | n.a. |
| T 13 | 22 4 | 9 44 | 1 38 | 22 14 | 1 23 | 23 46 | 0 53 | 21 27 | 0 4 | 21 21 | 0 10 | 2 14 | 2 28 | 23 58 | 0 19 | 23 5 | 0 38 | 16 57 | 4 45 | 17 16 | 16 57 | 21 11 | | | n.a. |
| W14 | 21 55 | 14 42 | 0 36 | 22 26 | 1 12 | 23 40 | 0 55 | 21 35 | 0 5 | 21 20 | 0 10 | 2 15 | 2 28 | 23 58 | 0 19 | 23 5 | 0 38 | 16 57 | 4 44 | 17 16 | 16 56 | 21 13 | | | n.a. |
| T 15 | 21 45 | 19 5 | 0 s27 | 22 38 | 1 2 | 23 32 | 0 57 | 21 44 | 0 6 | 21 20 | 0 10 | 2 17 | 2 28 | 23 57 | 0 19 | 23 5 | 0 37 | 16 57 | 4 44 | 17 16 | 16 55 | 21 15 | | | n.a. |
| F 16 | 21 34 | 22 43 | 1 29 | 22 50 | 0 52 | 23 24 | 0 59 | 21 52 | 0 7 | 21 19 | 0 10 | 2 19 | 2 28 | 23 57 | 0 19 | 23 5 | 0 37 | 16 57 | 4 44 | 17 16 | 16 54 | 21 18 | | | n.a. |
| S 17 | 21 23 | 25 25 | 2 27 | 23 0 | 0 41 | 23 15 | 1 0 | 22 0 | 0 8 | 21 19 | 0 10 | 2 20 | 2 27 | 23 57 | 0 19 | 23 5 | 0 37 | 16 57 | 4 44 | 17 15 | 16 53 | 21 20 | | | n.a. |
| S 18 | 21 12 | 27 0 | 3 19 | 23 11 | 0 31 | 23 5 | 1 2 | 22 8 | 0 9 | 21 19 | 0 10 | 2 22 | 2 27 | 23 57 | 0 19 | 23 5 | 0 37 | 16 57 | 4 44 | 17 13 | 16 52 | 21 22 | | | n.a. |
| M19 | 21 1 | 27 19 | 4 2 | 23 20 | 0 22 | 22 54 | 1 4 | 22 16 | 0 9 | 21 18 | 0 9 | 2 24 | 2 27 | 23 57 | 0 19 | 23 5 | 0 37 | 16 57 | 4 44 | 17 10 | 16 51 | 21 25 | | | n.a. |
| T 20 | 20 49 | 26 15 | 4 35 | 23 29 | 0 12 | 22 43 | 1 5 | 22 23 | 0 10 | 21 18 | 0 9 | 2 25 | 2 27 | 23 57 | 0 19 | 23 5 | 0 37 | 16 57 | 4 44 | 17 7 | 16 50 | 21 27 | | | n.a. |
| W21 | 20 36 | 23 51 | 4 55 | 23 37 | 0 3 | 22 31 | 1 7 | 22 30 | 0 11 | 21 18 | 0 9 | 2 27 | 2 26 | 23 57 | 0 19 | 23 5 | 0 37 | 16 57 | 4 43 | 17 3 | 16 49 | 21 29 | | | n.a. |
| T 22 | 20 23 | 20 14 | 5 1 | 23 44 | 0 s 6 | 22 19 | 1 8 | 22 37 | 0 12 | 21 18 | 0 9 | 2 29 | 2 26 | 23 57 | 0 19 | 23 5 | 0 37 | 16 57 | 4 43 | 16 59 | 16 48 | 21 31 | | | n.a. |
| F 23 | 20 10 | 15 35 | 4 51 | 23 50 | 0 15 | 22 6 | 1 9 | 22 44 | 0 13 | 21 17 | 0 9 | 2 31 | 2 26 | 23 57 | 0 19 | 23 5 | 0 37 | 16 57 | 4 43 | 16 56 | 16 47 | 21 34 | | | n.a. |
| S 24 | 19 57 | 10 8 | 4 25 | 23 55 | 0 23 | 21 52 | 1 11 | 22 51 | 0 14 | 21 17 | 0 9 | 2 33 | 2 25 | 23 57 | 0 19 | 23 5 | 0 37 | 16 57 | 4 43 | 16 53 | 16 46 | 21 36 | | | n.a. |
| S 25 | 19 43 | 4 10 | 3 45 | 23 59 | 0 32 | 21 37 | 1 12 | 22 57 | 0 14 | 21 17 | 0 8 | 2 35 | 2 25 | 23 57 | 0 19 | 23 5 | 0 37 | 16 57 | 4 43 | 16 51 | 16 46 | 21 38 | | | n.a. |
| M26 | 19 29 | 2n 5 | 2 51 | 24 2 | 0 39 | 21 22 | 1 13 | 23 3 | 0 15 | 21 17 | 0 8 | 2 37 | 2 25 | 23 57 | 0 19 | 23 5 | 0 37 | 16 58 | 4 43 | 16 50 | 16 45 | 21 41 | | | n.a. |
| T 27 | 19 14 | 8 20 | 1 46 | 24 3 | 0 47 | 21 7 | 1 14 | 23 9 | 0 16 | 21 17 | 0 8 | 2 39 | 2 25 | 23 57 | 0 19 | 23 5 | 0 37 | 16 58 | 4 43 | 16 49 | 16 44 | 21 43 | | | n.a. |
| W28 | 18 59 | 14 16 | 0 35 | 24 3 | 0 54 | 20 50 | 1 16 | 23 14 | 0 17 | 21 17 | 0 8 | 2 41 | 2 24 | 23 57 | 0 19 | 23 5 | 0 37 | 16 58 | 4 42 | 16 49 | 16 43 | 21 45 | | | n.a. |
| T 29 | 18 44 | 19 32 | 0n40 | 24 2 | 1 1 | 20 33 | 1 17 | 23 20 | 0 18 | 21 17 | 0 8 | 2 43 | 2 24 | 23 56 | 0 19 | 23 5 | 0 37 | 16 58 | 4 42 | 16 49 | 16 42 | 21 47 | | | n.a. |
| F 30 | 18 29 | 23 43 | 1 53 | 24 0 | 1 8 | 20 16 | 1 18 | 23 25 | 0 19 | 21 17 | 0 8 | 2 45 | 2 24 | 23 56 | 0 19 | 23 5 | 0 37 | 16 58 | 4 42 | 16 49 | 16 41 | 21 50 | | | n.a. |
| S 31 | 18 s13 | 26n27 | 2n59 | 23 s57 | 1 s15 | 19 s58 | 1 s19 | 23 s30 | 0 s20 | 21n17 | 0 s 7 | 2n47 | 2 s24 | 23n56 | 0n19 | 23n 5 | 0 s37 | 16n58 | 4 s42 | 16n48 | 16n40 | 21 s52 | | | n.a. |

Julian Day Number = 1698412.5, Delta T = 03h06m50s
Ecliptic obliquity = 23°42'15, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°56'01, Lahiri = - 4°49'01 Julian Calendar 1 Jan. 63 BCE == Greg. Calendar 30 Dec. 064 BCE

The year -62 astronomical counting style corresponds to year 063 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 63 BCE
# geocentric

## FEBRUARY 63 BCE (-62) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 32 50 | 9♒58'26 | 6♋47 | 17♑39 | 8♒23 | 18♐55 | 5°R12 | 12♈34 | 25°R12 | 0°R 2 | 6°R15 | 15°R51 | 15♉27 | 0♐53 | n.a. | S 1 |
| M 2 | 8 36 47 | 10°58'32 | 21°14 | 19° 6 | 9°38 | 19°40 | 5°D12 | 12°39 | 25♊10 | 0♋ 0 | 6♊15 | 15♉42 | 15°24 | 0°59 | n.a. | M 2 |
| T 3 | 8 40 43 | 11°58'35 | 5♌34 | 20°35 | 10°53 | 20°24 | 5♊12 | 12°44 | 25° 9 | 29♊59 | 6°14 | 15°30 | 15°21 | 1° 6 | n.a. | T 3 |
| W 4 | 8 44 40 | 12°58'37 | 19°41 | 22° 5 | 12° 8 | 21° 8 | 5°13 | 12°49 | 25° 7 | 29°58 | 6°14 | 15°18 | 15°18 | 1°13 | n.a. | W 4 |
| T 5 | 8 48 36 | 13°58'36 | 3♍29 | 23°36 | 13°22 | 21°52 | 5°13 | 12°54 | 25° 6 | 29°57 | 6°14 | 15° 6 | 15°15 | 1°19 | n.a. | T 5 |
| F 6 | 8 52 33 | 14°58'34 | 16°54 | 25° 8 | 14°37 | 22°36 | 5°14 | 12°59 | 25° 4 | 29°56 | 6°13 | 14°55 | 15°11 | 1°26 | n.a. | F 6 |
| S 7 | 8 56 29 | 15°58'30 | 29°55 | 26°41 | 15°52 | 23°20 | 5°15 | 13° 5 | 25° 3 | 29°55 | 6°13 | 14°46 | 15° 8 | 1°33 | n.a. | S 7 |
| S 8 | 9 0 26 | 16°58'23 | 12♎34 | 28°16 | 17° 7 | 24° 5 | 5°16 | 13°10 | 25° 1 | 29°54 | 6°13 | 14°41 | 15° 5 | 1°39 | n.a. | S 8 |
| M 9 | 9 4 23 | 17°58'15 | 24°53 | 29°51 | 18°21 | 24°49 | 5°17 | 13°15 | 25° 0 | 29°53 | 6°12 | 14°38 | 15° 2 | 1°46 | n.a. | M 9 |
| T 10 | 9 8 19 | 18°58'06 | 6♏56 | 1♒28 | 19°36 | 25°33 | 5°19 | 13°21 | 24°59 | 29°52 | 6°12 | 14°37 | 14°59 | 1°52 | n.a. | T 10 |
| W11 | 9 12 16 | 19°57'54 | 18°49 | 3° 6 | 20°51 | 26°18 | 5°21 | 13°27 | 24°58 | 29°51 | 6°12 | 14°36 | 14°56 | 1°59 | n.a. | W11 |
| T 12 | 9 16 12 | 20°57'41 | 0♐38 | 4°45 | 22° 6 | 27° 2 | 5°23 | 13°32 | 24°57 | 29°50 | 6°12 | 14°36 | 14°52 | 2° 6 | n.a. | T 12 |
| F 13 | 9 20 9 | 21°57'26 | 12°26 | 6°25 | 23°20 | 27°46 | 5°25 | 13°38 | 24°55 | 29°49 | 6°12 | 14°35 | 14°49 | 2°12 | n.a. | F 13 |
| S 14 | 9 24 5 | 22°57'09 | 24°21 | 8° 7 | 24°35 | 28°31 | 5°27 | 13°44 | 24°54 | 29°48 | 6°11 | 14°31 | 14°46 | 2°19 | n.a. | S 14 |
| S 15 | 9 28 2 | 23°56'50 | 6♑27 | 9°49 | 25°50 | 29°15 | 5°30 | 13°50 | 24°53 | 29°47 | 6°11 | 14°25 | 14°43 | 2°26 | n.a. | S 15 |
| M16 | 9 31 58 | 24°56'30 | 18°46 | 11°33 | 27° 4 | 29°59 | 5°32 | 13°56 | 24°52 | 29°46 | 6°11 | 14°16 | 14°40 | 2°32 | n.a. | M16 |
| T 17 | 9 35 55 | 25°56'07 | 1♒22 | 13°18 | 28°19 | 0♑44 | 5°35 | 14° 2 | 24°52 | 29°45 | 6°11 | 14° 5 | 14°36 | 2°39 | n.a. | T 17 |
| W18 | 9 39 52 | 26°55'42 | 14°16 | 15° 5 | 29°33 | 1°28 | 5°38 | 14° 8 | 24°51 | 29°45 | 6°11 | 13°52 | 14°33 | 2°46 | n.a. | W18 |
| T 19 | 9 43 48 | 27°55'16 | 27°27 | 16°52 | 0♓48 | 2°13 | 5°41 | 14°14 | 24°50 | 29°44 | 6°11 | 13°39 | 14°30 | 2°52 | n.a. | T 19 |
| F 20 | 9 47 45 | 28°54'47 | 10♓54 | 18°41 | 2° 3 | 2°57 | 5°45 | 14°21 | 24°49 | 29°43 | 6°11 | 13°27 | 14°27 | 2°59 | n.a. | F 20 |
| S 21 | 9 51 41 | 29°54'16 | 24°34 | 20°31 | 3°17 | 3°42 | 5°48 | 14°27 | 24°49 | 29°43 | 6°D11 | 13°18 | 14°24 | 3° 6 | n.a. | S 21 |
| S 22 | 9 55 38 | 0♓53'42 | 8♈24 | 22°23 | 4°32 | 4°26 | 5°52 | 14°33 | 24°48 | 29°42 | 6°11 | 13°11 | 14°21 | 3°12 | n.a. | S 22 |
| M23 | 9 59 34 | 1°53'06 | 22°20 | 24°15 | 5°46 | 5°11 | 5°56 | 14°40 | 24°47 | 29°41 | 6°11 | 13° 7 | 14°17 | 3°19 | n.a. | M23 |
| T 24 | 10 3 31 | 2°52'28 | 6♉22 | 26° 9 | 7° 1 | 5°55 | 6° 0 | 14°46 | 24°47 | 29°41 | 6°11 | 13° 5 | 14°14 | 3°26 | n.a. | T 24 |
| W25 | 10 7 27 | 3°51'48 | 20°26 | 28° 5 | 8°15 | 6°40 | 6° 5 | 14°53 | 24°46 | 29°40 | 6°11 | 13°D 5 | 14°11 | 3°32 | n.a. | W25 |
| T 26 | 10 11 24 | 4°51'05 | 4♊32 | 0♓ 1 | 9°30 | 7°24 | 6° 9 | 14°59 | 24°46 | 29°40 | 6°11 | 13°R 5 | 14° 8 | 3°39 | n.a. | T 26 |
| F 27 | 10 15 21 | 5°50'20 | 18°39 | 1°59 | 10°44 | 8° 9 | 6°14 | 15° 6 | 24°45 | 29°39 | 6°11 | 13° 5 | 14° 5 | 3°46 | n.a. | F 27 |
| S 28 | 10 19 17 | 6♓49'32 | 2♋46 | 3♓57 | 11♓58 | 8♑53 | 6♊18 | 15♈12 | 24♊45 | 29♊39 | 6♊11 | 13♉ 2 | 14♉ 2 | 3♐52 | n.a. | S 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| S 1 | 17s57 | 27n25 | 3n54 | 23s52 | 1s21 | 19s39 | 1s20 | 23s35 | 0s21 | 21n17 | 0s 7 | 2n49 | 2s23 | 23n56 | 0n19 | 23n 5 | 0s37 | 16n58 | 4s42 | 16n46 | 16n39 | 21s54 | | | n.a. |
| M 2 | 17 40 | 26 31 | 4 34 | 23 45 | 1 27 | 19 19 | 1 20 | 23 39 | 0 22 | 21 17 | 0 7 | 2 51 | 2 23 | 23 56 | 0 19 | 23 5 | 0 37 | 16 58 | 4 42 | 16 43 | 16 38 | 21 56 | | | n.a. |
| T 3 | 17 23 | 23 51 | 4 56 | 23 37 | 1 32 | 19 0 | 1 21 | 23 44 | 0 22 | 21 17 | 0 7 | 2 53 | 2 23 | 23 56 | 0 19 | 23 5 | 0 37 | 16 58 | 4 41 | 16 40 | 16 37 | 21 59 | | | n.a. |
| W 4 | 17 6 | 19 48 | 4 59 | 23 28 | 1 37 | 18 39 | 1 22 | 23 48 | 0 23 | 21 18 | 0 7 | 2 56 | 2 23 | 23 56 | 0 19 | 23 5 | 0 37 | 16 58 | 4 41 | 16 36 | 16 36 | 22 1 | | | n.a. |
| T 5 | 16 49 | 14 46 | 4 45 | 23 17 | 1 42 | 18 18 | 1 22 | 23 51 | 0 24 | 21 18 | 0 7 | 2 58 | 2 22 | 23 56 | 0 19 | 23 5 | 0 37 | 16 58 | 4 41 | 16 33 | 16 35 | 22 3 | | | n.a. |
| F 6 | 16 31 | 9 8 | 4 15 | 23 5 | 1 46 | 17 57 | 1 23 | 23 55 | 0 25 | 21 18 | 0 6 | 3 0 | 2 22 | 23 56 | 0 19 | 23 5 | 0 37 | 16 58 | 4 41 | 16 29 | 16 34 | 22 5 | | | n.a. |
| S 7 | 16 13 | 3 17 | 3 33 | 22 51 | 1 50 | 17 35 | 1 24 | 23 58 | 0 26 | 21 19 | 0 6 | 3 3 | 2 22 | 23 56 | 0 19 | 23 5 | 0 37 | 16 58 | 4 41 | 16 27 | 16 33 | 22 7 | | | n.a. |
| S 8 | 15 55 | 2s33 | 2 41 | 22 36 | 1 54 | 17 13 | 1 24 | 24 1 | 0 27 | 21 19 | 0 6 | 3 5 | 2 22 | 23 56 | 0 19 | 23 5 | 0 37 | 16 59 | 4 41 | 16 25 | 16 32 | 22 10 | | | n.a. |
| M 9 | 15 37 | 8 9 | 1 42 | 22 19 | 1 57 | 16 50 | 1 24 | 24 4 | 0 28 | 21 19 | 0 6 | 3 7 | 2 21 | 23 56 | 0 19 | 23 5 | 0 37 | 16 59 | 4 41 | 16 24 | 16 31 | 22 12 | | | n.a. |
| T 10 | 15 18 | 13 21 | 0 41 | 22 0 | 2 0 | 16 27 | 1 25 | 24 7 | 0 29 | 21 20 | 0 6 | 3 10 | 2 21 | 23 56 | 0 19 | 23 5 | 0 37 | 16 59 | 4 40 | 16 24 | 16 31 | 22 14 | | | n.a. |
| W11 | 14 59 | 17 58 | 0s22 | 21 40 | 2 2 | 16 3 | 1 25 | 24 9 | 0 30 | 21 20 | 0 6 | 3 12 | 2 21 | 23 56 | 0 19 | 23 5 | 0 37 | 16 59 | 4 40 | 16 24 | 16 30 | 22 16 | | | n.a. |
| T 12 | 14 40 | 21 52 | 1 24 | 21 18 | 2 5 | 15 39 | 1 25 | 24 11 | 0 31 | 21 21 | 0 6 | 3 15 | 2 21 | 23 56 | 0 19 | 23 5 | 0 37 | 16 59 | 4 40 | 16 24 | 16 29 | 22 18 | | | n.a. |
| F 13 | 14 21 | 24 53 | 2 22 | 20 55 | 2 6 | 15 14 | 1 25 | 24 13 | 0 32 | 21 21 | 0 5 | 3 17 | 2 21 | 23 56 | 0 19 | 23 5 | 0 37 | 16 59 | 4 40 | 16 23 | 16 28 | 22 21 | | | n.a. |
| S 14 | 14 1 | 26 49 | 3 14 | 20 29 | 2 7 | 14 49 | 1 25 | 24 14 | 0 33 | 21 22 | 0 5 | 3 19 | 2 20 | 23 56 | 0 19 | 23 6 | 0 37 | 16 59 | 4 40 | 16 22 | 16 27 | 22 23 | | | n.a. |
| S 15 | 13 41 | 27 31 | 3 58 | 20 2 | 2 8 | 14 23 | 1 26 | 24 16 | 0 34 | 21 22 | 0 5 | 3 22 | 2 20 | 23 56 | 0 19 | 23 6 | 0 37 | 16 59 | 4 40 | 16 20 | 16 26 | 22 25 | | | n.a. |
| M16 | 13 21 | 26 52 | 4 32 | 19 34 | 2 9 | 13 58 | 1 25 | 24 17 | 0 35 | 21 23 | 0 5 | 3 24 | 2 20 | 23 55 | 0 19 | 23 6 | 0 37 | 17 0 | 4 39 | 16 18 | 16 25 | 22 27 | | | n.a. |
| T 17 | 13 1 | 24 50 | 4 54 | 19 4 | 2 8 | 13 31 | 1 25 | 24 18 | 0 36 | 21 24 | 0 5 | 3 27 | 2 20 | 23 55 | 0 19 | 23 6 | 0 37 | 17 0 | 4 39 | 16 14 | 16 24 | 22 29 | | | n.a. |
| W18 | 12 40 | 21 31 | 5 1 | 18 32 | 2 8 | 13 5 | 1 25 | 24 18 | 0 36 | 21 24 | 0 5 | 3 30 | 2 20 | 23 55 | 0 19 | 23 6 | 0 37 | 17 0 | 4 39 | 16 11 | 16 23 | 22 31 | | | n.a. |
| T 19 | 12 20 | 17 3 | 4 52 | 17 58 | 2 7 | 12 38 | 1 25 | 24 19 | 0 37 | 21 25 | 0 5 | 3 32 | 2 19 | 23 55 | 0 19 | 23 6 | 0 37 | 17 0 | 4 39 | 16 7 | 16 22 | 22 34 | | | n.a. |
| F 20 | 11 59 | 11 40 | 4 28 | 17 22 | 2 5 | 12 11 | 1 25 | 24 19 | 0 38 | 21 26 | 0 4 | 3 35 | 2 19 | 23 55 | 0 19 | 23 6 | 0 37 | 17 0 | 4 39 | 16 3 | 16 21 | 22 36 | | | n.a. |
| S 21 | 11 38 | 5 39 | 3 47 | 16 45 | 2 3 | 11 43 | 1 24 | 24 19 | 0 39 | 21 27 | 0 4 | 3 37 | 2 19 | 23 55 | 0 19 | 23 6 | 0 37 | 17 0 | 4 39 | 16 0 | 16 20 | 22 38 | | | n.a. |
| S 22 | 11 17 | 0n43 | 2 53 | 16 6 | 2 1 | 11 15 | 1 24 | 24 18 | 0 40 | 21 27 | 0 4 | 3 40 | 2 19 | 23 55 | 0 19 | 23 6 | 0 37 | 17 0 | 4 38 | 15 58 | 16 19 | 22 40 | | | n.a. |
| M23 | 10 55 | 7 8 | 1 48 | 15 26 | 1 57 | 10 47 | 1 23 | 24 17 | 0 41 | 21 28 | 0 4 | 3 43 | 2 19 | 23 55 | 0 19 | 23 6 | 0 36 | 17 1 | 4 38 | 15 57 | 16 18 | 22 42 | | | n.a. |
| T 24 | 10 34 | 13 14 | 0 36 | 14 43 | 1 54 | 10 19 | 1 23 | 24 17 | 0 42 | 21 29 | 0 4 | 3 45 | 2 18 | 23 55 | 0 19 | 23 6 | 0 36 | 17 1 | 4 38 | 15 56 | 16 17 | 22 44 | | | n.a. |
| W25 | 10 12 | 18 41 | 0n39 | 13 59 | 1 50 | 9 50 | 1 22 | 24 15 | 0 43 | 21 30 | 0 4 | 3 48 | 2 18 | 23 55 | 0 19 | 23 6 | 0 36 | 17 1 | 4 38 | 15 56 | 16 16 | 22 46 | | | n.a. |
| T 26 | 9 50 | 23 6 | 1 51 | 13 13 | 1 45 | 9 21 | 1 22 | 24 14 | 0 44 | 21 31 | 0 4 | 3 51 | 2 18 | 23 55 | 0 19 | 23 6 | 0 36 | 17 1 | 4 38 | 15 56 | 16 15 | 22 48 | | | n.a. |
| F 27 | 9 28 | 26 9 | 2 57 | 12 26 | 1 40 | 8 52 | 1 21 | 24 12 | 0 45 | 21 32 | 0 3 | 3 54 | 2 18 | 23 55 | 0 19 | 23 6 | 0 36 | 17 1 | 4 38 | 15 56 | 16 14 | 22 50 | | | n.a. |
| S 28 | 9s 6 | 27n33 | 3n52 | 11s37 | 1s34 | 8s23 | 1s20 | 24s10 | 0s46 | 21n33 | 0s 3 | 3n56 | 2s18 | 23n55 | 0n19 | 23n 6 | 0s36 | 17n 1 | 4s37 | 15n55 | 16n13 | 22s53 | | | n.a. |

Julian Day Number = 1698443.5, Delta T = 03h06m49s
Ecliptic obliquity = 23°42'16, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°55'57, Lahiri = - 4°48'57 Julian Calendar 1 Feb. 63 BCE == Greg. Calendar 30 Jan. 063 BCE

The year -62 astronomical counting style corresponds to year 063 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 63 BCE
# geocentric

## MARCH 63 BCE (-62) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 23 14 | 7♓48'42 | 16♋51 | 5♓57 | 13♓13 | 9♉38 | 6♊23 | 15♈19 | 24°R45 | 29°R38 | 6♊12 | 12°R57 | 13♉58 | 3♐59 | n.a. | S 1 |
| M 2 | 10 27 10 | 8°47'49 | 0♌52 | 7°58 | 14°27 | 10°22 | 6°29 | 15°26 | 24♊45 | 29♊38 | 6°12 | 12♉49 | 13°55 | 4° 6 | n.a. | M 2 |
| T 3 | 10 31 7 | 9°46'55 | 14°44 | 10° 0 | 15°42 | 11° 7 | 6°34 | 15°33 | 24°45 | 29°37 | 6°12 | 12°40 | 13°52 | 4°12 | n.a. | T 3 |
| W 4 | 10 35 3 | 10°45'57 | 28°26 | 12° 3 | 16°56 | 11°51 | 6°39 | 15°40 | 24°44 | 29°37 | 6°12 | 12°30 | 13°49 | 4°19 | n.a. | W 4 |
| T 5 | 10 39 0 | 11°44'58 | 11♍52 | 14° 6 | 18°10 | 12°36 | 6°45 | 15°47 | 24°44 | 29°37 | 6°13 | 12°19 | 13°46 | 4°26 | n.a. | T 5 |
| F 6 | 10 42 56 | 12°43'56 | 25° 1 | 16°10 | 19°24 | 13°21 | 6°51 | 15°54 | 24°D44 | 29°37 | 6°13 | 12°10 | 13°42 | 4°32 | n.a. | F 6 |
| S 7 | 10 46 53 | 13°42'53 | 7♎52 | 18°15 | 20°39 | 14° 5 | 6°57 | 16° 1 | 24°44 | 29°36 | 6°13 | 12° 3 | 13°39 | 4°39 | n.a. | S 7 |
| S 8 | 10 50 49 | 14°41'47 | 20°25 | 20°19 | 21°53 | 14°50 | 7° 3 | 16° 8 | 24°45 | 29°36 | 6°14 | 11°58 | 13°36 | 4°45 | n.a. | S 8 |
| M 9 | 10 54 46 | 15°40'39 | 2♏41 | 22°23 | 23° 7 | 15°34 | 7° 9 | 16°15 | 24°45 | 29°36 | 6°14 | 11°56 | 13°33 | 4°52 | n.a. | M 9 |
| T 10 | 10 58 43 | 16°39'30 | 14°44 | 24°27 | 24°21 | 16°19 | 7°15 | 16°22 | 24°45 | 29°36 | 6°14 | 11°D55 | 13°30 | 4°59 | n.a. | T 10 |
| W11 | 11 2 39 | 17°38'19 | 26°38 | 26°31 | 25°36 | 17° 4 | 7°22 | 16°29 | 24°45 | 29°36 | 6°15 | 11°56 | 13°27 | 5° 5 | n.a. | W11 |
| T 12 | 11 6 36 | 18°37'05 | 8♐27 | 28°33 | 26°50 | 17°48 | 7°29 | 16°36 | 24°45 | 29°36 | 6°15 | 11°57 | 13°23 | 5°12 | n.a. | T 12 |
| F 13 | 11 10 32 | 19°35'51 | 20°17 | 0♈33 | 28° 4 | 18°33 | 7°35 | 16°43 | 24°46 | 29°D36 | 6°16 | 11°R58 | 13°20 | 5°19 | n.a. | F 13 |
| S 14 | 11 14 29 | 20°34'34 | 2♑13 | 2°32 | 29°18 | 19°18 | 7°42 | 16°51 | 24°46 | 29°36 | 6°16 | 11°57 | 13°17 | 5°25 | n.a. | S 14 |
| S 15 | 11 18 25 | 21°33'15 | 14°20 | 4°29 | 0♈32 | 20° 2 | 7°50 | 16°58 | 24°47 | 29°36 | 6°17 | 11°54 | 13°14 | 5°32 | n.a. | S 15 |
| M16 | 11 22 22 | 22°31'55 | 26°43 | 6°24 | 1°46 | 20°47 | 7°57 | 17° 5 | 24°47 | 29°36 | 6°17 | 11°49 | 13°11 | 5°39 | n.a. | M16 |
| T 17 | 11 26 18 | 23°30'33 | 9♒25 | 8°16 | 3° 0 | 21°31 | 8° 4 | 17°13 | 24°48 | 29°36 | 6°18 | 11°43 | 13° 8 | 5°45 | n.a. | T 17 |
| W18 | 11 30 15 | 24°29'09 | 22°28 | 10° 4 | 4°14 | 22°16 | 8°12 | 17°20 | 24°49 | 29°36 | 6°18 | 11°35 | 13° 4 | 5°52 | n.a. | W18 |
| T 19 | 11 34 12 | 25°27'43 | 5♓53 | 11°50 | 5°28 | 23° 1 | 8°19 | 17°28 | 24°49 | 29°36 | 6°19 | 11°27 | 13° 1 | 5°59 | n.a. | T 19 |
| F 20 | 11 38 8 | 26°26'15 | 19°38 | 13°31 | 6°42 | 23°45 | 8°27 | 17°35 | 24°50 | 29°36 | 6°19 | 11°20 | 12°58 | 6° 5 | n.a. | F 20 |
| S 21 | 11 42 5 | 27°24'46 | 3♈41 | 15° 9 | 7°56 | 24°30 | 8°35 | 17°43 | 24°51 | 29°37 | 6°20 | 11°14 | 12°55 | 6°12 | n.a. | S 21 |
| S 22 | 11 46 1 | 28°23'14 | 17°56 | 16°42 | 9°10 | 25°14 | 8°43 | 17°50 | 24°52 | 29°37 | 6°21 | 11°10 | 12°52 | 6°19 | n.a. | S 22 |
| M23 | 11 49 58 | 29°21'40 | 2♉19 | 18°12 | 10°24 | 25°59 | 8°51 | 17°58 | 24°53 | 29°37 | 6°21 | 11° 8 | 12°48 | 6°25 | n.a. | M23 |
| T 24 | 11 53 54 | 0♈20'04 | 16°44 | 19°37 | 11°38 | 26°44 | 9° 0 | 18° 5 | 24°53 | 29°37 | 6°22 | 11°D 8 | 12°45 | 6°32 | n.a. | T 24 |
| W25 | 11 57 51 | 1°18'26 | 1♊ 8 | 20°57 | 12°52 | 27°28 | 9° 8 | 18°13 | 24°54 | 29°38 | 6°23 | 11° 9 | 12°42 | 6°39 | n.a. | W25 |
| T 26 | 12 1 47 | 2°16'46 | 15°26 | 22°12 | 14° 6 | 28°13 | 9°17 | 18°20 | 24°56 | 29°38 | 6°23 | 11°10 | 12°39 | 6°45 | n.a. | T 26 |
| F 27 | 12 5 44 | 3°15'04 | 29°37 | 23°23 | 15°20 | 28°57 | 9°25 | 18°28 | 24°57 | 29°39 | 6°24 | 11°R11 | 12°36 | 6°52 | n.a. | F 27 |
| S 28 | 12 9 41 | 4°13'19 | 13♋39 | 24°29 | 16°34 | 29°42 | 9°34 | 18°36 | 24°58 | 29°39 | 6°25 | 11°10 | 12°33 | 6°59 | n.a. | S 28 |
| S 29 | 12 13 37 | 5°11'32 | 27°30 | 25°29 | 17°48 | 0♒26 | 9°43 | 18°43 | 24°59 | 29°40 | 6°26 | 11° 9 | 12°29 | 7° 5 | n.a. | S 29 |
| M30 | 12 17 34 | 6° 9'43 | 11♌10 | 26°25 | 19° 1 | 1°11 | 9°52 | 18°51 | 25° 0 | 29°40 | 6°27 | 11° 5 | 12°26 | 7°12 | n.a. | M30 |
| T 31 | 12 21 30 | 7♈ 7'52 | 24♌39 | 27♈15 | 20♈15 | 1♒55 | 10♊ 1 | 18♈59 | 25♊ 2 | 29♊41 | 6♊27 | 11♉ 1 | 12♉23 | 7♐19 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| S 1 | 8s44 | 27n 8 | 4n33 | 10s47 | 1s27 | 7s53 | 1s19 | 24s 8 | 0s47 | 21n34 | 0s 3 | 3n59 | 2s18 | 23n55 | 0n19 | 23n 6 | 0s36 | 17n 2 | 4s37 | 15n54 | 16n12 | 22s55 | | | n.a. |
| M 2 | 8 22 | 25 1 | 4 57 | 9 55 | 1 20 | 7 23 | 1 18 | 24 6 | 0 48 | 21 35 | 0 3 | 4 2 | 2 17 | 23 55 | 0 19 | 23 6 | 0 36 | 17 2 | 4 37 | 15 52 | 16 12 | 22 57 | | | n.a. |
| T 3 | 7 59 | 21 25 | 5 3 | 9 2 | 1 13 | 6 53 | 1 17 | 24 3 | 0 49 | 21 36 | 0 3 | 4 5 | 2 17 | 23 55 | 0 19 | 23 6 | 0 36 | 17 2 | 4 37 | 15 49 | 16 11 | 22 59 | | | n.a. |
| W 4 | 7 37 | 16 42 | 4 52 | 8 7 | 1 5 | 6 23 | 1 16 | 24 0 | 0 50 | 21 37 | 0 3 | 4 8 | 2 17 | 23 55 | 0 19 | 23 6 | 0 36 | 17 2 | 4 37 | 15 45 | 16 10 | 23 1 | | | n.a. |
| T 5 | 7 14 | 11 15 | 4 25 | 7 11 | 0 56 | 5 53 | 1 15 | 23 57 | 0 51 | 21 38 | 0 3 | 4 10 | 2 17 | 23 55 | 0 19 | 23 6 | 0 36 | 17 2 | 4 37 | 15 42 | 16 9 | 23 3 | | | n.a. |
| F 6 | 6 51 | 5 25 | 3 43 | 6 14 | 0 47 | 5 22 | 1 14 | 23 54 | 0 52 | 21 39 | 0 3 | 4 13 | 2 17 | 23 55 | 0 19 | 23 6 | 0 36 | 17 3 | 4 36 | 15 39 | 16 8 | 23 5 | | | n.a. |
| S 7 | 6 28 | 0s32 | 2 52 | 5 17 | 0 38 | 4 52 | 1 13 | 23 50 | 0 53 | 21 40 | 0 2 | 4 16 | 2 17 | 23 55 | 0 19 | 23 6 | 0 36 | 17 3 | 4 36 | 15 37 | 16 7 | 23 7 | | | n.a. |
| S 8 | 6 5 | 6 19 | 1 53 | 4 18 | 0 28 | 4 21 | 1 12 | 23 46 | 0 54 | 21 41 | 0 2 | 4 19 | 2 16 | 23 55 | 0 19 | 23 6 | 0 36 | 17 3 | 4 36 | 15 36 | 16 6 | 23 9 | | | n.a. |
| M 9 | 5 42 | 11 46 | 0 49 | 3 19 | 0 17 | 3 50 | 1 10 | 23 42 | 0 55 | 21 43 | 0 2 | 4 22 | 2 16 | 23 55 | 0 19 | 23 6 | 0 36 | 17 3 | 4 36 | 15 35 | 16 5 | 23 11 | | | n.a. |
| T 10 | 5 19 | 16 41 | 0s15 | 2 20 | 0 7 | 3 19 | 1 9 | 23 38 | 0 56 | 21 44 | 0 2 | 4 25 | 2 16 | 23 55 | 0 19 | 23 6 | 0 36 | 17 4 | 4 36 | 15 35 | 16 4 | 23 13 | | | n.a. |
| W11 | 4 56 | 20 53 | 1 18 | 1 20 | 0n 4 | 2 48 | 1 7 | 23 33 | 0 57 | 21 45 | 0 2 | 4 28 | 2 16 | 23 55 | 0 19 | 23 6 | 0 36 | 17 4 | 4 36 | 15 35 | 16 3 | 23 15 | | | n.a. |
| T 12 | 4 33 | 24 13 | 2 18 | 0 21 | 0 16 | 2 17 | 1 6 | 23 28 | 0 59 | 21 46 | 0 2 | 4 30 | 2 16 | 23 55 | 0 19 | 23 6 | 0 36 | 17 4 | 4 36 | 15 35 | 16 2 | 23 17 | | | n.a. |
| F 13 | 4 10 | 26 32 | 3 11 | 0n38 | 0 27 | 1 46 | 1 4 | 23 23 | 1 0 | 21 47 | 0 2 | 4 33 | 2 16 | 23 55 | 0 19 | 23 6 | 0 36 | 17 4 | 4 35 | 15 36 | 16 1 | 23 19 | | | n.a. |
| S 14 | 3 46 | 27 38 | 3 57 | 1 37 | 0 39 | 1 14 | 1 3 | 23 18 | 1 1 | 21 49 | 0 2 | 4 36 | 2 16 | 23 55 | 0 19 | 23 6 | 0 36 | 17 4 | 4 35 | 15 35 | 16 0 | 23 21 | | | n.a. |
| S 15 | 3 23 | 27 27 | 4 33 | 2 34 | 0 50 | 0 43 | 1 1 | 23 12 | 1 2 | 21 50 | 0 1 | 4 39 | 2 16 | 23 55 | 0 19 | 23 6 | 0 36 | 17 5 | 4 35 | 15 35 | 15 59 | 23 23 | | | n.a. |
| M16 | 3 0 | 25 54 | 4 57 | 3 31 | 1 2 | 0 12 | 1 0 | 23 7 | 1 3 | 21 51 | 0 1 | 4 42 | 2 15 | 23 55 | 0 19 | 23 6 | 0 36 | 17 5 | 4 35 | 15 33 | 15 58 | 23 25 | | | n.a. |
| T 17 | 2 36 | 23 1 | 5 7 | 4 26 | 1 13 | 0n20 | 0 58 | 23 1 | 1 4 | 21 53 | 0 1 | 4 45 | 2 15 | 23 55 | 0 19 | 23 6 | 0 36 | 17 5 | 4 35 | 15 31 | 15 57 | 23 27 | | | n.a. |
| W18 | 2 13 | 18 56 | 5 2 | 5 19 | 1 24 | 0 51 | 0 56 | 22 54 | 1 5 | 21 54 | 0 1 | 4 48 | 2 15 | 23 55 | 0 19 | 23 6 | 0 36 | 17 5 | 4 35 | 15 29 | 15 56 | 23 29 | | | n.a. |
| T 19 | 1 49 | 13 47 | 4 41 | 6 11 | 1 35 | 1 22 | 0 54 | 22 48 | 1 6 | 21 55 | 0 1 | 4 51 | 2 15 | 23 55 | 0 19 | 23 7 | 0 36 | 17 6 | 4 34 | 15 26 | 15 55 | 23 31 | | | n.a. |
| F 20 | 1 26 | 7 51 | 4 2 | 7 0 | 1 45 | 1 53 | 0 52 | 22 41 | 1 7 | 21 57 | 0 1 | 4 54 | 2 15 | 23 55 | 0 19 | 23 7 | 0 36 | 17 6 | 4 34 | 15 24 | 15 54 | 23 33 | | | n.a. |
| S 21 | 1 2 | 1 24 | 3 9 | 7 48 | 1 55 | 2 25 | 0 50 | 22 34 | 1 8 | 21 58 | 0 1 | 4 57 | 2 15 | 23 55 | 0 19 | 23 7 | 0 36 | 17 6 | 4 34 | 15 22 | 15 53 | 23 35 | | | n.a. |
| S 22 | 0 39 | 5n14 | 2 2 | 8 33 | 2 4 | 2 56 | 0 49 | 22 27 | 1 9 | 21 59 | 0 1 | 5 0 | 2 15 | 23 55 | 0 19 | 23 7 | 0 36 | 17 6 | 4 34 | 15 21 | 15 52 | 23 37 | | | n.a. |
| M23 | 0 15 | 11 40 | 0 48 | 9 16 | 2 13 | 3 27 | 0 47 | 22 20 | 1 10 | 22 1 | 0 0 | 5 3 | 2 15 | 23 55 | 0 19 | 23 7 | 0 36 | 17 7 | 4 34 | 15 20 | 15 51 | 23 39 | | | n.a. |
| T 24 | 0n 8 | 17 31 | 0n30 | 9 56 | 2 21 | 3 58 | 0 44 | 22 12 | 1 11 | 22 2 | 0 0 | 5 6 | 2 15 | 23 55 | 0 19 | 23 7 | 0 36 | 17 7 | 4 34 | 15 20 | 15 50 | 23 41 | | | n.a. |
| W25 | 0 32 | 22 21 | 1 47 | 10 33 | 2 29 | 4 29 | 0 42 | 22 4 | 1 12 | 22 4 | 0 0 | 5 9 | 2 14 | 23 55 | 0 19 | 23 7 | 0 36 | 17 7 | 4 34 | 15 20 | 15 49 | 23 43 | | | n.a. |
| T 26 | 0 55 | 25 49 | 2 56 | 11 8 | 2 35 | 5 0 | 0 40 | 21 56 | 1 13 | 22 5 | 0 0 | 5 12 | 2 14 | 23 55 | 0 19 | 23 7 | 0 35 | 17 8 | 4 33 | 15 21 | 15 48 | 23 45 | | | n.a. |
| F 27 | 1 18 | 27 36 | 3 53 | 11 40 | 2 41 | 5 31 | 0 38 | 21 48 | 1 14 | 22 7 | 0n 0 | 5 15 | 2 14 | 23 55 | 0 19 | 23 7 | 0 35 | 17 8 | 4 33 | 15 21 | 15 47 | 23 47 | | | n.a. |
| S 28 | 1 42 | 27 35 | 4 36 | 12 9 | 2 46 | 6 2 | 0 36 | 21 40 | 1 15 | 22 8 | 0 0 | 5 18 | 2 14 | 23 55 | 0 19 | 23 7 | 0 35 | 17 8 | 4 33 | 15 21 | 15 46 | 23 49 | | | n.a. |
| S 29 | 2 5 | 25 50 | 5 3 | 12 36 | 2 50 | 6 32 | 0 34 | 21 31 | 1 16 | 22 9 | 0 0 | 5 21 | 2 14 | 23 55 | 0 19 | 23 7 | 0 35 | 17 8 | 4 33 | 15 20 | 15 45 | 23 51 | | | n.a. |
| M30 | 2 28 | 22 36 | 5 11 | 12 59 | 2 53 | 7 3 | 0 32 | 21 22 | 1 17 | 22 11 | 0 0 | 5 24 | 2 14 | 23 55 | 0 19 | 23 7 | 0 35 | 17 9 | 4 33 | 15 19 | 15 44 | 23 53 | | | n.a. |
| T 31 | 2n52 | 18n12 | 5n 3 | 13n19 | 2n55 | 7n33 | 0s29 | 21s13 | 1s18 | 22n12 | 0n 0 | 5n27 | 2s14 | 23n56 | 0n19 | 23n 7 | 0s35 | 17n 9 | 4s33 | 15n18 | 15n43 | 23s55 | | | n.a. |

Julian Day Number = 1698471.5, Delta T = 03h06m49s
Ecliptic obliquity = 23°42'16, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°55'53, Lahiri = - 4°48'53 Julian Calendar 1 March 63 BCE == Greg. Calendar 27 Feb. 063 BCE

The year -62 astronomical counting style corresponds to year 063 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 63 BCE
# geocentric

## APRIL 63 BCE (-62) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 12 25 27 | 8♈ 5'59 | 7♍54 | 28♈ 0 | 21♈29 | 2♒40 | 10♊10 | 19♈ 6 | 25♊ 3 | 29♊41 | 6♊28 | 10°R55 | 12♉20 | 7♐25 | n.a. | W 1 |
| T 2 | 12 29 23 | 9° 4'04 | 20°56 | 28°40 | 22°43 | 3°24 | 10°20 | 19°14 | 25° 4 | 29°42 | 6°29 | 10♉50 | 12°17 | 7°32 | n.a. | T 2 |
| F 3 | 12 33 20 | 10° 2'07 | 3♎44 | 29°15 | 23°56 | 4° 9 | 10°29 | 19°22 | 25° 6 | 29°43 | 6°30 | 10°45 | 12°13 | 7°39 | n.a. | F 3 |
| S 4 | 12 37 16 | 11° 0'09 | 16°18 | 29°44 | 25°10 | 4°53 | 10°39 | 19°30 | 25° 7 | 29°43 | 6°31 | 10°42 | 12°10 | 7°45 | n.a. | S 4 |
| S 5 | 12 41 13 | 11°58'08 | 28°39 | 0♉ 7 | 26°24 | 5°37 | 10°48 | 19°37 | 25° 9 | 29°44 | 6°32 | 10°40 | 12° 7 | 7°52 | n.a. | S 5 |
| M 6 | 12 45 9 | 12°56'06 | 10♏48 | 0°26 | 27°37 | 6°22 | 10°58 | 19°45 | 25°10 | 29°45 | 6°33 | 10°D39 | 12° 4 | 7°59 | n.a. | M 6 |
| T 7 | 12 49 6 | 13°54'03 | 22°47 | 0°39 | 28°51 | 7° 6 | 11° 8 | 19°53 | 25°12 | 29°46 | 6°34 | 10°40 | 12° 1 | 8° 5 | n.a. | T 7 |
| W 8 | 12 53 3 | 14°51'58 | 4♐39 | 0°46 | 0♉ 4 | 7°50 | 11°18 | 20° 1 | 25°14 | 29°46 | 6°35 | 10°41 | 11°58 | 8°12 | n.a. | W 8 |
| T 9 | 12 56 59 | 15°49'51 | 16°28 | 0°R49 | 1°18 | 8°35 | 11°28 | 20° 9 | 25°16 | 29°47 | 6°36 | 10°43 | 11°54 | 8°19 | n.a. | T 9 |
| F 10 | 13 0 56 | 16°47'44 | 28°18 | 0°46 | 2°31 | 9°19 | 11°38 | 20°16 | 25°17 | 29°48 | 6°37 | 10°44 | 11°51 | 8°25 | n.a. | F 10 |
| S 11 | 13 4 52 | 17°45'34 | 10♑14 | 0°39 | 3°45 | 10° 3 | 11°48 | 20°24 | 25°19 | 29°49 | 6°38 | 10°45 | 11°48 | 8°32 | n.a. | S 11 |
| S 12 | 13 8 49 | 18°43'24 | 22°21 | 0°27 | 4°59 | 10°48 | 11°59 | 20°32 | 25°21 | 29°50 | 6°39 | 10°R46 | 11°45 | 8°39 | n.a. | S 12 |
| M13 | 13 12 45 | 19°41'12 | 4♒43 | 0°10 | 6°12 | 11°32 | 12° 9 | 20°40 | 25°23 | 29°51 | 6°40 | 10°45 | 11°42 | 8°45 | n.a. | M13 |
| T 14 | 13 16 42 | 20°38'59 | 17°25 | 29♈50 | 7°25 | 12°16 | 12°20 | 20°48 | 25°25 | 29°52 | 6°41 | 10°43 | 11°39 | 8°52 | n.a. | T 14 |
| W15 | 13 20 38 | 21°36'45 | 0♓29 | 29°26 | 8°39 | 13° 0 | 12°30 | 20°56 | 25°27 | 29°53 | 6°42 | 10°41 | 11°35 | 8°58 | n.a. | W15 |
| T 16 | 13 24 35 | 22°34'29 | 13°59 | 28°59 | 9°52 | 13°44 | 12°41 | 21° 3 | 25°29 | 29°54 | 6°43 | 10°38 | 11°32 | 9° 5 | n.a. | T 16 |
| F 17 | 13 28 32 | 23°32'12 | 27°52 | 28°29 | 11° 6 | 14°28 | 12°52 | 21°11 | 25°31 | 29°55 | 6°44 | 10°36 | 11°29 | 9°12 | n.a. | F 17 |
| S 18 | 13 32 28 | 24°29'54 | 12♈ 8 | 27°57 | 12°19 | 15°12 | 13° 3 | 21°19 | 25°33 | 29°56 | 6°45 | 10°34 | 11°26 | 9°18 | n.a. | S 18 |
| S 19 | 13 36 25 | 25°27'35 | 26°42 | 27°24 | 13°32 | 15°56 | 13°14 | 21°27 | 25°35 | 29°57 | 6°46 | 10°33 | 11°23 | 9°25 | n.a. | S 19 |
| M20 | 13 40 21 | 26°25'14 | 11♉28 | 26°49 | 14°46 | 16°40 | 13°25 | 21°35 | 25°38 | 29°59 | 6°48 | 10°D33 | 11°19 | 9°32 | n.a. | M20 |
| T 21 | 13 44 18 | 27°22'51 | 26°18 | 26°14 | 15°59 | 17°24 | 13°36 | 21°42 | 25°40 | 29°59 | 6°49 | 10°33 | 11°16 | 9°38 | n.a. | T 21 |
| W22 | 13 48 14 | 28°20'28 | 11♊ 6 | 25°40 | 17°12 | 18° 8 | 13°47 | 21°50 | 25°42 | 0♋ 1 | 6°50 | 10°34 | 11°13 | 9°45 | n.a. | W22 |
| T 23 | 13 52 11 | 29°18'03 | 25°44 | 25° 6 | 18°26 | 18°52 | 13°58 | 21°58 | 25°45 | 0° 2 | 6°51 | 10°35 | 11°10 | 9°52 | n.a. | T 23 |
| F 24 | 13 56 7 | 0♉15'36 | 10♋ 9 | 24°33 | 19°39 | 19°36 | 14°10 | 22° 6 | 25°47 | 0° 4 | 6°52 | 10°36 | 11° 7 | 9°58 | n.a. | F 24 |
| S 25 | 14 0 4 | 1°13'08 | 24°17 | 24° 3 | 20°52 | 20°20 | 14°21 | 22°14 | 25°49 | 0° 5 | 6°54 | 10°36 | 11° 4 | 10° 5 | n.a. | S 25 |
| S 26 | 14 4 1 | 2°10'38 | 8♌ 6 | 23°35 | 22° 5 | 21° 3 | 14°32 | 22°21 | 25°52 | 0° 6 | 6°55 | 10°R36 | 11° 0 | 10°12 | n.a. | S 26 |
| M27 | 14 7 57 | 3° 8'07 | 21°36 | 23°10 | 23°18 | 21°47 | 14°44 | 22°29 | 25°54 | 0° 8 | 6°56 | 10°36 | 10°57 | 10°18 | n.a. | M27 |
| T 28 | 14 11 54 | 4° 5'34 | 4♍49 | 22°48 | 24°31 | 22°31 | 14°56 | 22°37 | 25°57 | 0° 9 | 6°57 | 10°35 | 10°54 | 10°25 | n.a. | T 28 |
| W29 | 14 15 50 | 5° 3'00 | 17°46 | 22°29 | 25°44 | 23°14 | 15° 7 | 22°44 | 26° 0 | 0°10 | 6°59 | 10°34 | 10°51 | 10°32 | n.a. | W29 |
| T 30 | 14 19 47 | 6♉ 0'24 | 0♎27 | 22♈15 | 26♉58 | 23♒58 | 15♊19 | 22♈52 | 26♊ 2 | 0♋12 | 7♊ 0 | 10♉34 | 10♉48 | 10♐38 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| W 1 | 3n15 | 12n59 | 4n38 | 13n37 | 2n56 | 8n 3 | 0s27 | 21s 4 | 1s19 | 22n14 | 0n 1 | 5n30 | 2s14 | 23n56 | 0n19 | 23n 7 | 0s35 | 17n 9 | 4s32 | 15n16 | 15n42 | 23s57 | | | n.a. |
| T 2 | 3 38 | 7 17 | 3 59 | 13 51 | 2 56 | 8 33 | 0 25 | 20 55 | 1 20 | 22 15 | 0 1 | 5 33 | 2 14 | 23 56 | 0 19 | 23 7 | 0 35 | 17 10 | 4 32 | 15 14 | 15 41 | 23 59 | | | n.a. |
| F 3 | 4 1 | 1 22 | 3 8 | 14 3 | 2 55 | 9 3 | 0 22 | 20 45 | 1 21 | 22 17 | 0 1 | 5 36 | 2 14 | 23 56 | 0 19 | 23 7 | 0 35 | 17 10 | 4 32 | 15 13 | 15 40 | 24 1 | | | n.a. |
| S 4 | 4 24 | 4s30 | 2 9 | 14 11 | 2 52 | 9 32 | 0 20 | 20 35 | 1 22 | 22 18 | 0 1 | 5 39 | 2 14 | 23 56 | 0 19 | 23 7 | 0 35 | 17 10 | 4 32 | 15 12 | 15 39 | 24 2 | | | n.a. |
| S 5 | 4 47 | 10 6 | 1 5 | 14 16 | 2 49 | 10 1 | 0 17 | 20 25 | 1 23 | 22 20 | 0 1 | 5 42 | 2 14 | 23 56 | 0 19 | 23 7 | 0 35 | 17 10 | 4 32 | 15 11 | 15 39 | 24 4 | | | n.a. |
| M 6 | 5 10 | 15 14 | 0s 1 | 14 18 | 2 44 | 10 30 | 0 15 | 20 15 | 1 24 | 22 21 | 0 1 | 5 45 | 2 14 | 23 56 | 0 19 | 23 7 | 0 35 | 17 11 | 4 32 | 15 11 | 15 38 | 24 6 | | | n.a. |
| T 7 | 5 33 | 19 44 | 1 6 | 14 17 | 2 38 | 10 59 | 0 13 | 20 5 | 1 25 | 22 23 | 0 1 | 5 48 | 2 14 | 23 56 | 0 19 | 23 7 | 0 35 | 17 11 | 4 32 | 15 11 | 15 37 | 24 8 | | | n.a. |
| W 8 | 5 55 | 23 24 | 2 8 | 14 14 | 2 31 | 11 28 | 0 10 | 19 54 | 1 27 | 22 24 | 0 1 | 5 51 | 2 14 | 23 56 | 0 19 | 23 7 | 0 35 | 17 11 | 4 32 | 15 12 | 15 36 | 24 10 | | | n.a. |
| T 9 | 6 18 | 26 4 | 3 4 | 14 7 | 2 23 | 11 56 | 0 8 | 19 43 | 1 28 | 22 26 | 0 1 | 5 54 | 2 13 | 23 56 | 0 19 | 23 7 | 0 35 | 17 12 | 4 31 | 15 12 | 15 35 | 24 12 | | | n.a. |
| F 10 | 6 40 | 27 35 | 3 53 | 13 57 | 2 13 | 12 24 | 0 5 | 19 33 | 1 29 | 22 27 | 0 2 | 5 57 | 2 13 | 23 56 | 0 19 | 23 7 | 0 35 | 17 12 | 4 31 | 15 13 | 15 34 | 24 14 | | | n.a. |
| S 11 | 7 3 | 27 49 | 4 32 | 13 44 | 2 3 | 12 52 | 0 3 | 19 21 | 1 30 | 22 29 | 0 2 | 6 0 | 2 13 | 23 56 | 0 19 | 23 7 | 0 35 | 17 12 | 4 31 | 15 13 | 15 33 | 24 16 | | | n.a. |
| S 12 | 7 25 | 26 45 | 4 59 | 13 29 | 1 51 | 13 19 | 0 0 | 19 10 | 1 31 | 22 30 | 0 2 | 6 3 | 2 13 | 23 56 | 0 19 | 23 7 | 0 35 | 17 12 | 4 31 | 15 13 | 15 32 | 24 17 | | | n.a. |
| M13 | 7 47 | 24 22 | 5 14 | 13 11 | 1 38 | 13 46 | 0n 2 | 18 59 | 1 32 | 22 32 | 0 2 | 6 6 | 2 13 | 23 56 | 0 19 | 23 7 | 0 35 | 17 13 | 4 31 | 15 13 | 15 31 | 24 19 | | | n.a. |
| T 14 | 8 9 | 20 45 | 5 13 | 12 51 | 1 25 | 14 13 | 0 5 | 18 47 | 1 33 | 22 33 | 0 2 | 6 9 | 2 13 | 23 56 | 0 19 | 23 7 | 0 35 | 17 13 | 4 31 | 15 12 | 15 30 | 24 21 | | | n.a. |
| W15 | 8 31 | 16 2 | 4 57 | 12 29 | 1 10 | 14 39 | 0 7 | 18 36 | 1 34 | 22 35 | 0 2 | 6 12 | 2 13 | 23 56 | 0 19 | 23 7 | 0 35 | 17 13 | 4 31 | 15 12 | 15 29 | 24 23 | | | n.a. |
| T 16 | 8 53 | 10 25 | 4 24 | 12 5 | 0 55 | 15 6 | 0 10 | 18 24 | 1 35 | 22 36 | 0 2 | 6 15 | 2 13 | 23 56 | 0 19 | 23 7 | 0 35 | 17 14 | 4 30 | 15 11 | 15 28 | 24 25 | | | n.a. |
| F 17 | 9 14 | 4 8 | 3 35 | 11 39 | 0 39 | 15 31 | 0 13 | 18 12 | 1 36 | 22 38 | 0 2 | 6 18 | 2 13 | 23 56 | 0 19 | 23 7 | 0 35 | 17 14 | 4 30 | 15 10 | 15 27 | 24 27 | | | n.a. |
| S 18 | 9 36 | 2n32 | 2 31 | 11 12 | 0 22 | 15 57 | 0 15 | 18 0 | 1 37 | 22 39 | 0 2 | 6 21 | 2 13 | 23 57 | 0 19 | 23 7 | 0 35 | 17 14 | 4 30 | 15 9 | 15 26 | 24 28 | | | n.a. |
| S 19 | 9 57 | 9 14 | 1 16 | 10 44 | 0 5 | 16 21 | 0 18 | 17 47 | 1 38 | 22 41 | 0 3 | 6 24 | 2 13 | 23 57 | 0 19 | 23 8 | 0 35 | 17 15 | 4 30 | 15 9 | 15 25 | 24 30 | | | n.a. |
| M20 | 10 18 | 15 31 | 0n 5 | 10 16 | 0s12 | 16 46 | 0 20 | 17 35 | 1 39 | 22 42 | 0 3 | 6 27 | 2 13 | 23 57 | 0 19 | 23 8 | 0 35 | 17 15 | 4 30 | 15 9 | 15 24 | 24 32 | | | n.a. |
| T 21 | 10 39 | 20 56 | 1 26 | 9 47 | 0 29 | 17 10 | 0 23 | 17 22 | 1 40 | 22 44 | 0 3 | 6 30 | 2 13 | 23 57 | 0 19 | 23 8 | 0 35 | 17 15 | 4 30 | 15 9 | 15 23 | 24 34 | | | n.a. |
| W22 | 11 0 | 25 1 | 2 41 | 9 18 | 0 47 | 17 34 | 0 25 | 17 9 | 1 41 | 22 45 | 0 3 | 6 33 | 2 13 | 23 57 | 0 19 | 23 8 | 0 35 | 17 16 | 4 30 | 15 9 | 15 22 | 24 36 | | | n.a. |
| T 23 | 11 21 | 27 23 | 3 45 | 8 50 | 1 3 | 17 57 | 0 28 | 16 57 | 1 42 | 22 47 | 0 3 | 6 36 | 2 13 | 23 57 | 0 19 | 23 8 | 0 35 | 17 16 | 4 30 | 15 10 | 15 21 | 24 37 | | | n.a. |
| F 24 | 11 41 | 27 51 | 4 33 | 8 23 | 1 20 | 18 20 | 0 30 | 16 44 | 1 43 | 22 48 | 0 3 | 6 38 | 2 13 | 23 57 | 0 19 | 23 8 | 0 35 | 17 16 | 4 30 | 15 10 | 15 20 | 24 39 | | | n.a. |
| S 25 | 12 2 | 26 29 | 5 4 | 7 57 | 1 36 | 18 42 | 0 33 | 16 31 | 1 44 | 22 50 | 0 3 | 6 41 | 2 13 | 23 57 | 0 19 | 23 8 | 0 35 | 17 16 | 4 29 | 15 10 | 15 19 | 24 41 | | | n.a. |
| S 26 | 12 22 | 23 32 | 5 17 | 7 32 | 1 51 | 19 4 | 0 35 | 16 17 | 1 45 | 22 51 | 0 3 | 6 44 | 2 13 | 23 57 | 0 19 | 23 8 | 0 35 | 17 17 | 4 29 | 15 10 | 15 18 | 24 43 | | | n.a. |
| M27 | 12 42 | 19 21 | 5 11 | 7 9 | 2 6 | 19 25 | 0 38 | 16 4 | 1 46 | 22 53 | 0 3 | 6 47 | 2 13 | 23 57 | 0 19 | 23 8 | 0 35 | 17 17 | 4 29 | 15 10 | 15 17 | 24 44 | | | n.a. |
| T 28 | 13 1 | 14 19 | 4 49 | 6 49 | 2 19 | 19 46 | 0 40 | 15 50 | 1 47 | 22 54 | 0 3 | 6 50 | 2 13 | 23 57 | 0 19 | 23 8 | 0 34 | 17 17 | 4 29 | 15 10 | 15 16 | 24 46 | | | n.a. |
| W29 | 13 21 | 8 46 | 4 13 | 6 30 | 2 32 | 20 6 | 0 43 | 15 37 | 1 48 | 22 55 | 0 4 | 6 53 | 2 13 | 23 57 | 0 19 | 23 8 | 0 34 | 17 18 | 4 29 | 15 9 | 15 15 | 24 48 | | | n.a. |
| T 30 | 13n40 | 2n56 | 3n25 | 6n14 | 2s43 | 20n26 | 0n45 | 15s23 | 1s49 | 22n57 | 0n 4 | 6n56 | 2s13 | 23n57 | 0n19 | 23n 8 | 0s34 | 17n18 | 4s29 | 15n 9 | 15n14 | 24s50 | | | n.a. |

Julian Day Number = 1698502.5, Delta T = 03h06m48s
Ecliptic obliquity = 23°42'17, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°55'49, Lahiri = - 4°48'48 Julian Calendar 1 Apr. 63 BCE == Greg. Calendar 30 March 063 BCE

The year -62 astronomical counting style corresponds to year 063 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 63 BCE
# geocentric

## MAY 63 BCE (-62) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 14 23 43 | 6♉57'47 | 12♎56 | 22°R 5 | 28♉11 | 24♒41 | 15♊31 | 23♈ 0 | 26♊ 5 | 0♋13 | 7♊ 1 | 10°R33 | 10♉44 | 10♐45 | n.a. | F 1 |
| S 2 | 14 27 40 | 7°55'09 | 25°13 | 21♈59 | 29°24 | 25°24 | 15°43 | 23° 8 | 26° 7 | 0°15 | 7° 2 | 10♉33 | 10°41 | 10°52 | n.a. | S 2 |
| S 3 | 14 31 36 | 8°52'30 | 7♏20 | 21°D57 | 0♊37 | 26° 8 | 15°55 | 23°15 | 26°10 | 0°16 | 7° 4 | 10°D33 | 10°38 | 10°58 | n.a. | S 3 |
| M 4 | 14 35 33 | 9°49'50 | 19°19 | 22° 0 | 1°50 | 26°51 | 16° 7 | 23°23 | 26°13 | 0°18 | 7° 5 | 10°33 | 10°35 | 11° 5 | n.a. | M 4 |
| T 5 | 14 39 30 | 10°47'10 | 1♐13 | 22° 7 | 3° 2 | 27°34 | 16°19 | 23°30 | 26°16 | 0°19 | 7° 6 | 10°R33 | 10°32 | 11°12 | n.a. | T 5 |
| W 6 | 14 43 26 | 11°44'28 | 13° 3 | 22°19 | 4°15 | 28°18 | 16°31 | 23°38 | 26°19 | 0°21 | 7° 8 | 10°33 | 10°29 | 11°18 | n.a. | W 6 |
| T 7 | 14 47 23 | 12°41'46 | 24°52 | 22°35 | 5°28 | 29° 1 | 16°43 | 23°46 | 26°21 | 0°23 | 7° 9 | 10°33 | 10°25 | 11°25 | n.a. | T 7 |
| F 8 | 14 51 19 | 13°39'03 | 6♑43 | 22°56 | 6°41 | 29°44 | 16°55 | 23°53 | 26°24 | 0°24 | 7°11 | 10°32 | 10°22 | 11°32 | n.a. | F 8 |
| S 9 | 14 55 16 | 14°36'19 | 18°40 | 23°21 | 7°54 | 0♓27 | 17° 7 | 24° 1 | 26°27 | 0°26 | 7°12 | 10°32 | 10°19 | 11°38 | n.a. | S 9 |
| S 10 | 14 59 12 | 15°33'35 | 0♒47 | 23°50 | 9° 7 | 1°10 | 17°20 | 24° 8 | 26°30 | 0°28 | 7°13 | 10°32 | 10°16 | 11°45 | n.a. | S 10 |
| M11 | 15 3 9 | 16°30'51 | 13° 8 | 24°24 | 10°19 | 1°52 | 17°32 | 24°16 | 26°33 | 0°29 | 7°15 | 10°D31 | 10°13 | 11°52 | n.a. | M11 |
| T 12 | 15 7 5 | 17°28'05 | 25°47 | 25° 2 | 11°32 | 2°35 | 17°44 | 24°23 | 26°36 | 0°31 | 7°16 | 10°32 | 10°10 | 11°58 | n.a. | T 12 |
| W13 | 15 11 2 | 18°25'20 | 8♓47 | 25°44 | 12°45 | 3°18 | 17°57 | 24°30 | 26°39 | 0°33 | 7°18 | 10°32 | 10° 6 | 12° 5 | n.a. | W13 |
| T 14 | 15 14 59 | 19°22'34 | 22°12 | 26°29 | 13°58 | 4° 1 | 18° 9 | 24°38 | 26°42 | 0°34 | 7°19 | 10°33 | 10° 3 | 12°12 | n.a. | T 14 |
| F 15 | 15 18 55 | 20°19'47 | 6♈ 3 | 27°19 | 15°10 | 4°43 | 18°22 | 24°45 | 26°45 | 0°36 | 7°20 | 10°33 | 10° 0 | 12°18 | n.a. | F 15 |
| S 16 | 15 22 52 | 21°17'00 | 20°21 | 28°13 | 16°23 | 5°26 | 18°35 | 24°52 | 26°48 | 0°38 | 7°22 | 10°34 | 9°57 | 12°25 | n.a. | S 16 |
| S 17 | 15 26 48 | 22°14'13 | 5♉ 1 | 29°10 | 17°36 | 6° 8 | 18°47 | 25° 0 | 26°52 | 0°40 | 7°23 | 10°R35 | 9°54 | 12°32 | n.a. | S 17 |
| M18 | 15 30 45 | 23°11'25 | 19°58 | 0♉11 | 18°48 | 6°50 | 19° 0 | 25° 7 | 26°55 | 0°42 | 7°25 | 10°34 | 9°50 | 12°38 | n.a. | M18 |
| T 19 | 15 34 41 | 24° 8'38 | 5♊ 5 | 1°16 | 20° 1 | 7°33 | 19°13 | 25°14 | 26°58 | 0°43 | 7°26 | 10°34 | 9°47 | 12°45 | n.a. | T 19 |
| W20 | 15 38 38 | 25° 5'49 | 20°12 | 2°24 | 21°13 | 8°15 | 19°25 | 25°21 | 27° 1 | 0°45 | 7°28 | 10°32 | 9°44 | 12°52 | n.a. | W20 |
| T 21 | 15 42 35 | 26° 3'00 | 5♋11 | 3°36 | 22°26 | 8°57 | 19°38 | 25°28 | 27° 4 | 0°47 | 7°29 | 10°31 | 9°41 | 12°58 | n.a. | T 21 |
| F 22 | 15 46 31 | 27° 0'10 | 19°53 | 4°51 | 23°38 | 9°39 | 19°51 | 25°36 | 27° 8 | 0°49 | 7°30 | 10°29 | 9°38 | 13° 5 | n.a. | F 22 |
| S 23 | 15 50 28 | 27°57'20 | 4♌13 | 6° 9 | 24°51 | 10°21 | 20° 4 | 25°43 | 27°11 | 0°51 | 7°32 | 10°27 | 9°35 | 13°12 | n.a. | S 23 |
| S 24 | 15 54 24 | 28°54'29 | 18° 8 | 7°31 | 26° 3 | 11° 2 | 20°17 | 25°50 | 27°14 | 0°53 | 7°33 | 10°26 | 9°31 | 13°18 | n.a. | S 24 |
| M25 | 15 58 21 | 29°51'37 | 1♍38 | 8°56 | 27°16 | 11°44 | 20°30 | 25°57 | 27°18 | 0°55 | 7°35 | 10°D26 | 9°28 | 13°25 | n.a. | M25 |
| T 26 | 16 2 17 | 0♊48'45 | 14°45 | 10°25 | 28°28 | 12°26 | 20°43 | 26° 4 | 27°21 | 0°57 | 7°36 | 10°26 | 9°25 | 13°32 | n.a. | T 26 |
| W27 | 16 6 14 | 1°45'52 | 27°31 | 11°57 | 29°40 | 13° 7 | 20°56 | 26°10 | 27°24 | 0°59 | 7°38 | 10°27 | 9°22 | 13°38 | n.a. | W27 |
| T 28 | 16 10 10 | 2°42'59 | 10♎ 0 | 13°31 | 0♋53 | 13°48 | 21° 9 | 26°17 | 27°28 | 1° 1 | 7°39 | 10°29 | 9°19 | 13°45 | n.a. | T 28 |
| F 29 | 16 14 7 | 3°40'05 | 22°15 | 15°10 | 2° 5 | 14°30 | 21°22 | 26°24 | 27°31 | 1° 3 | 7°41 | 10°30 | 9°16 | 13°52 | n.a. | F 29 |
| S 30 | 16 18 4 | 4°37'11 | 4♏19 | 16°51 | 3°17 | 15°11 | 21°35 | 26°31 | 27°35 | 1° 5 | 7°42 | 10°31 | 9°12 | 13°58 | n.a. | S 30 |
| S 31 | 16 22 0 | 5♊34'17 | 16♏16 | 18♉35 | 4♋29 | 15♓52 | 21♊48 | 26♈37 | 27♊38 | 1♋ 7 | 7♊44 | 10°R31 | 9♉ 9 | 14♐ 5 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 13n59 | 2s54 | 2n27 | 6n 0 | 2s54 | 20n45 | 0n48 | 15s 9 | 1s50 | 22n58 | 0n 4 | 6n59 | 2s13 | 23n58 | 0n19 | 23n 8 | 0s34 | 17n18 | 4s29 | 15n 9 | 15n13 | 24s51 | | n.a. |
| S 2 | 14 18 | 8 33 | 1 24 | 5 49 | 3 4 | 21 3 | 0 50 | 14 56 | 1 51 | 23 0 | 0 4 | 7 1 | 2 13 | 23 58 | 0 19 | 23 8 | 0 34 | 17 19 | 4 29 | 15 9 | 15 12 | 24 53 | | n.a. |
| S 3 | 14 37 | 13 50 | 0 18 | 5 41 | 3 12 | 21 21 | 0 52 | 14 42 | 1 52 | 23 1 | 0 4 | 7 4 | 2 13 | 23 58 | 0 19 | 23 8 | 0 34 | 17 19 | 4 29 | 15 9 | 15 11 | 24 55 | | n.a. |
| M 4 | 14 55 | 18 32 | 0s49 | 5 35 | 3 19 | 21 39 | 0 55 | 14 27 | 1 53 | 23 2 | 0 4 | 7 7 | 2 13 | 23 58 | 0 19 | 23 8 | 0 34 | 17 19 | 4 28 | 15 9 | 15 10 | 24 57 | | n.a. |
| T 5 | 15 14 | 22 28 | 1 52 | 5 32 | 3 25 | 21 56 | 0 57 | 14 13 | 1 53 | 23 4 | 0 4 | 7 10 | 2 13 | 23 58 | 0 19 | 23 8 | 0 34 | 17 20 | 4 28 | 15 9 | 15 9 | 24 58 | | n.a. |
| W 6 | 15 31 | 25 26 | 2 51 | 5 32 | 3 31 | 22 12 | 0 59 | 13 59 | 1 54 | 23 5 | 0 4 | 7 13 | 2 13 | 23 58 | 0 19 | 23 8 | 0 34 | 17 20 | 4 28 | 15 9 | 15 8 | 25 0 | | n.a. |
| T 7 | 15 49 | 27 18 | 3 42 | 5 34 | 3 35 | 22 28 | 1 1 | 13 45 | 1 55 | 23 6 | 0 4 | 7 15 | 2 13 | 23 58 | 0 19 | 23 8 | 0 34 | 17 20 | 4 28 | 15 9 | 15 7 | 25 2 | | n.a. |
| F 8 | 16 7 | 27 55 | 4 24 | 5 39 | 3 38 | 22 43 | 1 4 | 13 30 | 1 56 | 23 8 | 0 4 | 7 18 | 2 14 | 23 58 | 0 19 | 23 8 | 0 34 | 17 21 | 4 28 | 15 9 | 15 6 | 25 3 | | n.a. |
| S 9 | 16 24 | 27 15 | 4 55 | 5 46 | 3 40 | 22 57 | 1 6 | 13 16 | 1 57 | 23 9 | 0 5 | 7 21 | 2 14 | 23 58 | 0 19 | 23 8 | 0 34 | 17 21 | 4 28 | 15 9 | 15 5 | 25 5 | | n.a. |
| S 10 | 16 41 | 25 17 | 5 13 | 5 56 | 3 41 | 23 11 | 1 8 | 13 1 | 1 58 | 23 10 | 0 5 | 7 24 | 2 14 | 23 58 | 0 19 | 23 8 | 0 34 | 17 21 | 4 28 | 15 9 | 15 4 | 25 7 | | n.a. |
| M11 | 16 58 | 22 7 | 5 17 | 6 8 | 3 41 | 23 24 | 1 10 | 12 46 | 1 59 | 23 11 | 0 5 | 7 26 | 2 14 | 23 58 | 0 19 | 23 8 | 0 34 | 17 22 | 4 28 | 15 9 | 15 3 | 25 8 | | n.a. |
| T 12 | 17 14 | 17 51 | 5 6 | 6 23 | 3 40 | 23 36 | 1 12 | 12 32 | 2 0 | 23 13 | 0 5 | 7 29 | 2 14 | 23 58 | 0 19 | 23 8 | 0 34 | 17 22 | 4 28 | 15 9 | 15 2 | 25 10 | | n.a. |
| W13 | 17 30 | 12 40 | 4 40 | 6 40 | 3 38 | 23 48 | 1 14 | 12 17 | 2 1 | 23 14 | 0 5 | 7 32 | 2 14 | 23 58 | 0 19 | 23 8 | 0 34 | 17 22 | 4 28 | 15 9 | 15 1 | 25 12 | | n.a. |
| T 14 | 17 46 | 6 45 | 3 57 | 6 59 | 3 36 | 23 59 | 1 16 | 12 2 | 2 2 | 23 15 | 0 5 | 7 34 | 2 14 | 23 59 | 0 19 | 23 8 | 0 34 | 17 22 | 4 27 | 15 9 | 15 0 | 25 13 | | n.a. |
| F 15 | 18 2 | 0 19 | 3 0 | 7 20 | 3 32 | 24 10 | 1 18 | 11 47 | 2 3 | 23 16 | 0 5 | 7 37 | 2 14 | 23 59 | 0 19 | 23 8 | 0 34 | 17 23 | 4 27 | 15 9 | 14 59 | 25 15 | | n.a. |
| S 16 | 18 17 | 6n20 | 1 50 | 7 43 | 3 28 | 24 19 | 1 20 | 11 32 | 2 4 | 23 18 | 0 5 | 7 40 | 2 14 | 23 59 | 0 19 | 23 8 | 0 34 | 17 23 | 4 27 | 15 9 | 14 58 | 25 17 | | n.a. |
| S 17 | 18 32 | 12 51 | 0 31 | 8 8 | 3 23 | 24 28 | 1 22 | 11 17 | 2 4 | 23 19 | 0 5 | 7 42 | 2 14 | 23 59 | 0 19 | 23 8 | 0 34 | 17 23 | 4 27 | 15 10 | 14 57 | 25 18 | | n.a. |
| M18 | 18 47 | 18 45 | 0n52 | 8 35 | 3 18 | 24 37 | 1 23 | 11 2 | 2 5 | 23 20 | 0 5 | 7 45 | 2 14 | 23 59 | 0 19 | 23 8 | 0 34 | 17 24 | 4 27 | 15 10 | 14 56 | 25 20 | | n.a. |
| T 19 | 19 1 | 23 32 | 2 12 | 9 3 | 3 11 | 24 44 | 1 25 | 10 47 | 2 6 | 23 21 | 0 6 | 7 47 | 2 14 | 23 59 | 0 19 | 23 8 | 0 34 | 17 24 | 4 27 | 15 9 | 14 55 | 25 22 | | n.a. |
| W20 | 19 15 | 26 42 | 3 22 | 9 33 | 3 4 | 24 51 | 1 27 | 10 32 | 2 7 | 23 22 | 0 6 | 7 50 | 2 14 | 23 59 | 0 19 | 23 8 | 0 34 | 17 24 | 4 27 | 15 9 | 14 53 | 25 23 | | n.a. |
| T 21 | 19 29 | 27 54 | 4 18 | 10 5 | 2 57 | 24 57 | 1 28 | 10 17 | 2 8 | 23 23 | 0 6 | 7 52 | 2 14 | 23 59 | 0 19 | 23 8 | 0 34 | 17 25 | 4 27 | 15 8 | 14 52 | 25 25 | | n.a. |
| F 22 | 19 42 | 27 5 | 4 56 | 10 38 | 2 49 | 25 3 | 1 30 | 10 1 | 2 9 | 23 24 | 0 6 | 7 55 | 2 14 | 23 59 | 0 19 | 23 8 | 0 34 | 17 25 | 4 27 | 15 8 | 14 51 | 25 26 | | n.a. |
| S 23 | 19 55 | 24 30 | 5 14 | 11 12 | 2 40 | 25 8 | 1 31 | 9 46 | 2 10 | 23 26 | 0 6 | 7 57 | 2 15 | 23 59 | 0 19 | 23 8 | 0 34 | 17 25 | 4 27 | 15 7 | 14 50 | 25 28 | | n.a. |
| S 24 | 20 8 | 20 31 | 5 13 | 11 48 | 2 31 | 25 12 | 1 33 | 9 31 | 2 10 | 23 27 | 0 6 | 8 0 | 2 15 | 23 59 | 0 19 | 23 8 | 0 34 | 17 26 | 4 27 | 15 7 | 14 49 | 25 30 | | n.a. |
| M25 | 20 21 | 15 35 | 4 55 | 12 24 | 2 21 | 25 15 | 1 34 | 9 15 | 2 11 | 23 28 | 0 6 | 8 2 | 2 15 | 23 59 | 0 19 | 23 8 | 0 34 | 17 26 | 4 27 | 15 7 | 14 48 | 25 31 | | n.a. |
| T 26 | 20 33 | 10 4 | 4 21 | 13 2 | 2 11 | 25 17 | 1 36 | 9 0 | 2 12 | 23 29 | 0 6 | 8 5 | 2 15 | 23 59 | 0 19 | 23 8 | 0 34 | 17 26 | 4 27 | 15 7 | 14 47 | 25 33 | | n.a. |
| W27 | 20 45 | 4 17 | 3 35 | 13 40 | 2 1 | 25 19 | 1 37 | 8 45 | 2 13 | 23 30 | 0 6 | 8 7 | 2 15 | 23 59 | 0 19 | 23 8 | 0 34 | 17 26 | 4 27 | 15 7 | 14 46 | 25 34 | | n.a. |
| T 28 | 20 56 | 1s33 | 2 40 | 14 19 | 1 50 | 25 20 | 1 38 | 8 29 | 2 14 | 23 31 | 0 6 | 8 10 | 2 15 | 24 0 | 0 19 | 23 8 | 0 34 | 17 27 | 4 26 | 15 8 | 14 45 | 25 36 | | n.a. |
| F 29 | 21 7 | 7 14 | 1 39 | 14 59 | 1 39 | 25 20 | 1 39 | 8 14 | 2 14 | 23 32 | 0 7 | 8 12 | 2 15 | 24 0 | 0 19 | 23 8 | 0 34 | 17 27 | 4 26 | 15 8 | 14 44 | 25 37 | | n.a. |
| S 30 | 21 18 | 12 34 | 0 34 | 15 39 | 1 28 | 25 20 | 1 40 | 7 59 | 2 15 | 23 33 | 0 7 | 8 14 | 2 15 | 24 0 | 0 19 | 23 8 | 0 34 | 17 27 | 4 26 | 15 8 | 14 43 | 25 39 | | n.a. |
| S 31 | 21n28 | 17s24 | 0s32 | 16n19 | 1s17 | 25n19 | 1n41 | 7s43 | 2s16 | 23n34 | 0n 7 | 8n17 | 2s15 | 24n 0 | 0n19 | 23n 8 | 0s34 | 17n28 | 4s26 | 15n 9 | 14n42 | 25s40 | | n.a. |

Julian Day Number = 1698532.5, Delta T = 03h06m47s
Ecliptic obliquity = 23°42'17, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°55'45, Lahiri = - 4°48'44 Julian Calendar 1 May 63 BCE == Greg. Calendar 29 Apr. 063 BCE

The year -62 astronomical counting style corresponds to year 063 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 63 BCE
# geocentric

## JUNE 63 BCE (-62) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 16 25 57 | 6♊31'23 | 28♏ 9 | 20♉22 | 5♋41 | 16♓33 | 22♊ 1 | 26♈44 | 27♊41 | 1♋ 9 | 7♊45 | 10°R30 | 9♉ 6 | 14♐12 | n.a. | M 1 |
| T 2 | 16 29 53 | 7°28'29 | 9♐58 | 22°13 | 6°54 | 17°13 | 22°14 | 26°51 | 27°45 | 1°11 | 7°47 | 10♉28 | 9° 3 | 14°18 | n.a. | T 2 |
| W 3 | 16 33 50 | 8°25'34 | 21°48 | 24° 6 | 8° 6 | 17°54 | 22°27 | 26°57 | 27°48 | 1°13 | 7°48 | 10°24 | 9° 0 | 14°25 | n.a. | W 3 |
| T 4 | 16 37 46 | 9°22'40 | 3♑39 | 26° 1 | 9°18 | 18°35 | 22°40 | 27° 4 | 27°52 | 1°15 | 7°50 | 10°19 | 8°56 | 14°32 | n.a. | T 4 |
| F 5 | 16 41 43 | 10°19'46 | 15°34 | 27°59 | 10°30 | 19°15 | 22°54 | 27°10 | 27°55 | 1°17 | 7°51 | 10°14 | 8°53 | 14°39 | n.a. | F 5 |
| S 6 | 16 45 39 | 11°16'53 | 27°35 | 29°59 | 11°42 | 19°56 | 23° 7 | 27°17 | 27°59 | 1°20 | 7°53 | 10° 9 | 8°50 | 14°45 | n.a. | S 6 |
| S 7 | 16 49 36 | 12°13'59 | 9♒46 | 2♊ 2 | 12°54 | 20°36 | 23°20 | 27°23 | 28° 3 | 1°22 | 7°54 | 10° 5 | 8°47 | 14°52 | n.a. | S 7 |
| M 8 | 16 53 33 | 13°11'06 | 22° 8 | 4° 6 | 14° 6 | 21°16 | 23°33 | 27°29 | 28° 6 | 1°24 | 7°56 | 10° 2 | 8°44 | 14°59 | n.a. | M 8 |
| T 9 | 16 57 29 | 14° 8'13 | 4♓45 | 6°12 | 15°17 | 21°56 | 23°47 | 27°35 | 28°10 | 1°26 | 7°57 | 10° 0 | 8°41 | 15° 5 | n.a. | T 9 |
| W10 | 17 1 26 | 15° 5'21 | 17°41 | 8°19 | 16°29 | 22°36 | 24° 0 | 27°42 | 28°13 | 1°28 | 7°59 | 9°D59 | 8°37 | 15°12 | n.a. | W10 |
| T 11 | 17 5 22 | 16° 2'29 | 1♈ 0 | 10°27 | 17°41 | 23°15 | 24°13 | 27°48 | 28°17 | 1°30 | 8° 0 | 10° 0 | 8°34 | 15°19 | n.a. | T 11 |
| F 12 | 17 9 19 | 16°59'38 | 14°42 | 12°36 | 18°53 | 23°55 | 24°27 | 27°54 | 28°20 | 1°32 | 8° 1 | 10° 2 | 8°31 | 15°25 | n.a. | F 12 |
| S 13 | 17 13 15 | 17°56'48 | 28°51 | 14°45 | 20° 4 | 24°34 | 24°40 | 28° 0 | 28°24 | 1°35 | 8° 3 | 10° 3 | 8°28 | 15°32 | n.a. | S 13 |
| S 14 | 17 17 12 | 18°53'58 | 13♉25 | 16°54 | 21°16 | 25°14 | 24°53 | 28° 6 | 28°28 | 1°37 | 8° 4 | 10°R 3 | 8°25 | 15°39 | n.a. | S 14 |
| M15 | 17 21 8 | 19°51'09 | 28°19 | 19° 3 | 22°28 | 25°53 | 25° 7 | 28°12 | 28°31 | 1°39 | 8° 6 | 10° 2 | 8°22 | 15°45 | n.a. | M15 |
| T 16 | 17 25 5 | 20°48'20 | 13♊29 | 21°12 | 23°39 | 26°32 | 25°20 | 28°17 | 28°35 | 1°41 | 8° 7 | 9°59 | 8°18 | 15°52 | n.a. | T 16 |
| W17 | 17 29 2 | 21°45'32 | 28°43 | 23°20 | 24°51 | 27°10 | 25°33 | 28°23 | 28°39 | 1°43 | 8° 9 | 9°54 | 8°15 | 15°59 | n.a. | W17 |
| T 18 | 17 32 58 | 22°42'45 | 13♋52 | 25°27 | 26° 2 | 27°49 | 25°47 | 28°29 | 28°42 | 1°46 | 8°10 | 9°48 | 8°12 | 16° 5 | n.a. | T 18 |
| F 19 | 17 36 55 | 23°39'58 | 28°47 | 27°33 | 27°14 | 28°28 | 26° 0 | 28°34 | 28°46 | 1°48 | 8°12 | 9°42 | 8° 9 | 16°12 | n.a. | F 19 |
| S 20 | 17 40 51 | 24°37'11 | 13♌19 | 29°38 | 28°25 | 29° 6 | 26°13 | 28°40 | 28°50 | 1°50 | 8°13 | 9°36 | 8° 6 | 16°19 | n.a. | S 20 |
| S 21 | 17 44 48 | 25°34'24 | 27°23 | 1♋41 | 29°37 | 29°44 | 26°27 | 28°45 | 28°53 | 1°52 | 8°15 | 9°31 | 8° 2 | 16°25 | n.a. | S 21 |
| M22 | 17 48 44 | 26°31'38 | 10♍59 | 3°43 | 0♌48 | 0♈22 | 26°40 | 28°51 | 28°57 | 1°54 | 8°16 | 9°28 | 7°59 | 16°32 | n.a. | M22 |
| T 23 | 17 52 41 | 27°28'52 | 24° 7 | 5°44 | 1°59 | 1° 0 | 26°53 | 28°56 | 29° 1 | 1°57 | 8°17 | 9°D27 | 7°56 | 16°39 | n.a. | T 23 |
| W24 | 17 56 38 | 28°26'07 | 6♎50 | 7°43 | 3°10 | 1°37 | 27° 7 | 29° 1 | 29° 4 | 1°59 | 8°19 | 9°27 | 7°53 | 16°45 | n.a. | W24 |
| T 25 | 18 0 34 | 29°23'21 | 19°14 | 9°41 | 4°22 | 2°15 | 27°20 | 29° 7 | 29° 8 | 2° 1 | 8°20 | 9°28 | 7°50 | 16°52 | n.a. | T 25 |
| F 26 | 18 4 31 | 0♋20'37 | 1♏22 | 11°36 | 5°33 | 2°52 | 27°34 | 29°12 | 29°12 | 2° 3 | 8°22 | 9°29 | 7°47 | 16°59 | n.a. | F 26 |
| S 27 | 18 8 27 | 1°17'53 | 13°20 | 13°31 | 6°44 | 3°29 | 27°47 | 29°17 | 29°15 | 2° 6 | 8°23 | 9°R30 | 7°43 | 17° 5 | n.a. | S 27 |
| S 28 | 18 12 24 | 2°15'10 | 25°12 | 15°23 | 7°55 | 4° 6 | 28° 0 | 29°22 | 29°19 | 2° 8 | 8°24 | 9°28 | 7°40 | 17°12 | n.a. | S 28 |
| M29 | 18 16 20 | 3°12'27 | 7♐ 0 | 17°14 | 9° 6 | 4°42 | 28°14 | 29°26 | 29°22 | 2°10 | 8°26 | 9°25 | 7°37 | 17°19 | n.a. | M29 |
| T 30 | 18 20 17 | 4♋ 9'45 | 18♐49 | 19♋ 3 | 10♌17 | 5♈19 | 28♊27 | 29♈31 | 29♊26 | 2♋12 | 8♊27 | 9♉19 | 7♉34 | 17♐25 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 21n38 | 21s31 | 1s35 | 17n 0 | 1s 5 | 25n17 | 1n42 | 7s28 | 2s17 | 23n34 | 0n 7 | 8n19 | 2s15 | 24n 0 | 0n19 | 23n 8 | 0s34 | 17n28 | 4s26 | 15n 8 | 14n41 | 25s42 | | n.a. |
| T 2 | 21 48 | 24 44 | 2 35 | 17 40 | 0 53 | 25 14 | 1 43 | 7 12 | 2 18 | 23 35 | 0 7 | 8 21 | 2 16 | 24 0 | 0 19 | 23 8 | 0 34 | 17 28 | 4 26 | 15 7 | 14 40 | 25 43 | | n.a. |
| W 3 | 21 57 | 26 54 | 3 27 | 18 20 | 0 41 | 25 11 | 1 44 | 6 57 | 2 18 | 23 36 | 0 7 | 8 24 | 2 16 | 24 0 | 0 19 | 23 8 | 0 34 | 17 29 | 4 26 | 15 6 | 14 39 | 25 45 | | n.a. |
| T 4 | 22 6 | 27 50 | 4 11 | 19 0 | 0 30 | 25 7 | 1 44 | 6 42 | 2 19 | 23 37 | 0 7 | 8 26 | 2 16 | 24 0 | 0 19 | 23 8 | 0 34 | 17 29 | 4 26 | 15 5 | 14 38 | 25 47 | | n.a. |
| F 5 | 22 15 | 27 29 | 4 44 | 19 38 | 0 18 | 25 2 | 1 45 | 6 26 | 2 20 | 23 38 | 0 7 | 8 28 | 2 16 | 24 0 | 0 19 | 23 8 | 0 34 | 17 29 | 4 26 | 15 3 | 14 37 | 25 48 | | n.a. |
| S 6 | 22 23 | 25 51 | 5 5 | 20 16 | 0 7 | 24 56 | 1 46 | 6 11 | 2 21 | 23 39 | 0 7 | 8 30 | 2 16 | 24 0 | 0 19 | 23 8 | 0 34 | 17 29 | 4 26 | 15 1 | 14 36 | 25 50 | | n.a. |
| S 7 | 22 31 | 23 0 | 5 12 | 20 52 | 0n 5 | 24 50 | 1 46 | 5 56 | 2 21 | 23 39 | 0 7 | 8 32 | 2 16 | 24 0 | 0 19 | 23 8 | 0 34 | 17 30 | 4 26 | 15 0 | 14 35 | 25 51 | | n.a. |
| M 8 | 22 38 | 19 5 | 5 5 | 21 27 | 0 16 | 24 43 | 1 46 | 5 40 | 2 22 | 23 40 | 0 7 | 8 34 | 2 16 | 24 0 | 0 19 | 23 8 | 0 34 | 17 30 | 4 26 | 14 59 | 14 34 | 25 52 | | n.a. |
| T 9 | 22 45 | 14 16 | 4 44 | 22 1 | 0 26 | 24 35 | 1 47 | 5 25 | 2 23 | 23 41 | 0 8 | 8 37 | 2 17 | 24 0 | 0 19 | 23 8 | 0 34 | 17 30 | 4 26 | 14 58 | 14 33 | 25 54 | | n.a. |
| W10 | 22 52 | 8 42 | 4 7 | 22 32 | 0 36 | 24 27 | 1 47 | 5 10 | 2 23 | 23 42 | 0 8 | 8 39 | 2 17 | 24 0 | 0 19 | 23 8 | 0 34 | 17 30 | 4 26 | 14 58 | 14 32 | 25 55 | | n.a. |
| T 11 | 22 58 | 2 36 | 3 17 | 23 1 | 0 46 | 24 17 | 1 47 | 4 54 | 2 24 | 23 42 | 0 8 | 8 41 | 2 17 | 24 0 | 0 19 | 23 8 | 0 34 | 17 31 | 4 26 | 14 59 | 14 31 | 25 57 | | n.a. |
| F 12 | 23 4 | 3n48 | 2 14 | 23 28 | 0 55 | 24 8 | 1 47 | 4 39 | 2 25 | 23 43 | 0 8 | 8 43 | 2 17 | 24 0 | 0 19 | 23 8 | 0 34 | 17 31 | 4 26 | 14 59 | 14 30 | 25 58 | | n.a. |
| S 13 | 23 9 | 10 15 | 1 1 | 23 52 | 1 4 | 23 57 | 1 47 | 4 24 | 2 25 | 23 44 | 0 8 | 8 45 | 2 17 | 24 0 | 0 19 | 23 8 | 0 33 | 17 31 | 4 26 | 14 59 | 14 29 | 26 0 | | n.a. |
| S 14 | 23 14 | 16 20 | 0n18 | 24 14 | 1 11 | 23 46 | 1 47 | 4 9 | 2 26 | 23 44 | 0 8 | 8 47 | 2 17 | 24 1 | 0 19 | 23 8 | 0 33 | 17 32 | 4 26 | 15 0 | 14 28 | 26 1 | | n.a. |
| M15 | 23 19 | 21 36 | 1 38 | 24 33 | 1 19 | 23 34 | 1 47 | 3 54 | 2 27 | 23 45 | 0 8 | 8 49 | 2 17 | 24 1 | 0 19 | 23 8 | 0 33 | 17 32 | 4 26 | 14 59 | 14 27 | 26 3 | | n.a. |
| T 16 | 23 23 | 25 30 | 2 51 | 24 49 | 1 25 | 23 22 | 1 47 | 3 39 | 2 27 | 23 46 | 0 8 | 8 51 | 2 18 | 24 1 | 0 19 | 23 8 | 0 33 | 17 32 | 4 26 | 14 58 | 14 26 | 26 4 | | n.a. |
| W17 | 23 27 | 27 35 | 3 53 | 25 3 | 1 31 | 23 8 | 1 46 | 3 24 | 2 28 | 23 46 | 0 8 | 8 53 | 2 18 | 24 1 | 0 19 | 23 8 | 0 33 | 17 32 | 4 26 | 14 57 | 14 25 | 26 6 | | n.a. |
| T 18 | 23 30 | 27 35 | 4 38 | 25 13 | 1 36 | 22 55 | 1 46 | 3 9 | 2 29 | 23 47 | 0 8 | 8 54 | 2 18 | 24 1 | 0 19 | 23 8 | 0 33 | 17 33 | 4 26 | 14 55 | 14 24 | 26 7 | | n.a. |
| F 19 | 23 33 | 25 34 | 5 3 | 25 21 | 1 40 | 22 40 | 1 45 | 2 54 | 2 29 | 23 47 | 0 9 | 8 56 | 2 18 | 24 1 | 0 19 | 23 8 | 0 33 | 17 33 | 4 26 | 14 53 | 14 23 | 26 8 | | n.a. |
| S 20 | 23 36 | 21 55 | 5 8 | 25 26 | 1 44 | 22 25 | 1 45 | 2 39 | 2 30 | 23 48 | 0 9 | 8 58 | 2 18 | 24 1 | 0 19 | 23 8 | 0 33 | 17 33 | 4 25 | 14 51 | 14 22 | 26 10 | | n.a. |
| S 21 | 23 38 | 17 6 | 4 54 | 25 28 | 1 46 | 22 9 | 1 44 | 2 24 | 2 30 | 23 48 | 0 9 | 9 0 | 2 18 | 24 1 | 0 19 | 23 8 | 0 33 | 17 33 | 4 25 | 14 49 | 14 21 | 26 11 | | n.a. |
| M22 | 23 39 | 11 35 | 4 24 | 25 28 | 1 49 | 21 53 | 1 43 | 2 9 | 2 31 | 23 49 | 0 9 | 9 2 | 2 19 | 24 1 | 0 19 | 23 8 | 0 33 | 17 34 | 4 25 | 14 48 | 14 20 | 26 13 | | n.a. |
| T 23 | 23 41 | 5 44 | 3 40 | 25 25 | 1 50 | 21 36 | 1 43 | 1 55 | 2 31 | 23 49 | 0 9 | 9 3 | 2 19 | 24 1 | 0 19 | 23 8 | 0 33 | 17 34 | 4 25 | 14 48 | 14 19 | 26 14 | | n.a. |
| W24 | 23 42 | 0s12 | 2 47 | 25 19 | 1 51 | 21 19 | 1 42 | 1 40 | 2 32 | 23 49 | 0 9 | 9 5 | 2 19 | 24 1 | 0 19 | 23 8 | 0 33 | 17 34 | 4 25 | 14 48 | 14 17 | 26 15 | | n.a. |
| T 25 | 23 42 | 5 58 | 1 47 | 25 11 | 1 51 | 21 1 | 1 41 | 1 26 | 2 33 | 23 50 | 0 9 | 9 7 | 2 19 | 24 1 | 0 19 | 23 8 | 0 33 | 17 34 | 4 25 | 14 48 | 14 16 | 26 17 | | n.a. |
| F 26 | 23 42 | 11 24 | 0 44 | 25 2 | 1 50 | 20 42 | 1 39 | 1 11 | 2 33 | 23 50 | 0 9 | 9 8 | 2 19 | 24 1 | 0 19 | 23 8 | 0 33 | 17 35 | 4 25 | 14 49 | 14 15 | 26 18 | | n.a. |
| S 27 | 23 42 | 16 21 | 0s21 | 24 49 | 1 49 | 20 23 | 1 38 | 0 57 | 2 34 | 23 51 | 0 9 | 9 10 | 2 19 | 24 1 | 0 19 | 23 8 | 0 33 | 17 35 | 4 25 | 14 49 | 14 14 | 26 19 | | n.a. |
| S 28 | 23 41 | 20 37 | 1 23 | 24 35 | 1 48 | 20 3 | 1 37 | 0 43 | 2 34 | 23 51 | 0 9 | 9 12 | 2 20 | 24 1 | 0 19 | 23 8 | 0 33 | 17 35 | 4 25 | 14 48 | 14 13 | 26 21 | | n.a. |
| M29 | 23 40 | 24 3 | 2 22 | 24 19 | 1 45 | 19 43 | 1 36 | 0 28 | 2 35 | 23 51 | 0 10 | 9 13 | 2 20 | 24 1 | 0 19 | 23 8 | 0 33 | 17 35 | 4 25 | 14 47 | 14 12 | 26 22 | | n.a. |
| T 30 | 23n38 | 26s28 | 3s15 | 24n 2 | 1n43 | 19n22 | 1n34 | 0s14 | 2s35 | 23n51 | 0n10 | 9n15 | 2s20 | 24n 1 | 0n19 | 23n 8 | 0s33 | 17n35 | 4s25 | 14n45 | 14n11 | 26s23 | | n.a. |

Julian Day Number = 1698563.5, Delta T = 03h06m46s
Ecliptic obliquity = 23°42'16, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°55'41, Lahiri = - 4°48'40 Julian Calendar 1 June 63 BCE == Greg. Calendar 30 May 063 BCE

The year -62 astronomical counting style corresponds to year 063 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 63 BCE
# geocentric

## JULY 63 BCE (-62) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 18 24 13 | 5♋ 7'04 | 0♑41 | 20♋50 | 11♌27 | 5♈55 | 28♊40 | 29♈36 | 29♊30 | 2♋14 | 8♊28 | 9°R11 | 7♉31 | 17♐32 | n.a. | W 1 |
| T 2 | 18 28 10 | 6° 4'24 | 12°38 | 22°36 | 12°38 | 6°31 | 28°54 | 29°41 | 29°33 | 2°17 | 8°30 | 9♉ 1 | 7°28 | 17°39 | n.a. | T 2 |
| F 3 | 18 32 7 | 7° 1'45 | 24°40 | 24°20 | 13°49 | 7° 7 | 29° 7 | 29°45 | 29°37 | 2°19 | 8°31 | 8°50 | 7°24 | 17°45 | n.a. | F 3 |
| S 4 | 18 36 3 | 7°59'08 | 6♒51 | 26° 3 | 15° 0 | 7°43 | 29°20 | 29°50 | 29°41 | 2°21 | 8°32 | 8°40 | 7°21 | 17°52 | n.a. | S 4 |
| S 5 | 18 40 0 | 8°56'31 | 19°10 | 27°44 | 16°10 | 8°18 | 29°33 | 29°54 | 29°44 | 2°23 | 8°34 | 8°30 | 7°18 | 17°59 | n.a. | S 5 |
| M 6 | 18 43 56 | 9°53'55 | 1♓39 | 29°23 | 17°21 | 8°53 | 29°47 | 29°58 | 29°48 | 2°26 | 8°35 | 8°22 | 7°15 | 18° 5 | n.a. | M 6 |
| T 7 | 18 47 53 | 10°51'21 | 14°21 | 1♌ 0 | 18°31 | 9°28 | 29°59 | 0♉ 3 | 29°52 | 2°28 | 8°36 | 8°17 | 7°12 | 18°12 | n.a. | T 7 |
| W 8 | 18 51 49 | 11°48'48 | 27°19 | 2°36 | 19°41 | 10° 3 | 0♋13 | 0° 7 | 29°55 | 2°30 | 8°38 | 8°14 | 7° 8 | 18°19 | n.a. | W 8 |
| T 9 | 18 55 46 | 12°46'16 | 10♈34 | 4°11 | 20°52 | 10°37 | 0°26 | 0°11 | 29°59 | 2°32 | 8°39 | 8°D13 | 7° 5 | 18°26 | n.a. | T 9 |
| F 10 | 18 59 42 | 13°43'46 | 24° 9 | 5°43 | 22° 2 | 11°11 | 0°40 | 0°15 | 0♋ 2 | 2°34 | 8°40 | 8°13 | 7° 2 | 18°32 | n.a. | F 10 |
| S 11 | 19 3 39 | 14°41'17 | 8♉ 6 | 7°14 | 23°12 | 11°45 | 0°53 | 0°19 | 0° 6 | 2°37 | 8°41 | 8°R14 | 6°59 | 18°39 | n.a. | S 11 |
| S 12 | 19 7 36 | 15°38'50 | 22°26 | 8°44 | 24°22 | 12°19 | 1° 6 | 0°22 | 0°10 | 2°39 | 8°43 | 8°13 | 6°56 | 18°46 | n.a. | S 12 |
| M13 | 19 11 32 | 16°36'25 | 7♊ 7 | 10°11 | 25°32 | 12°52 | 1°19 | 0°26 | 0°13 | 2°41 | 8°44 | 8°10 | 6°53 | 18°52 | n.a. | M13 |
| T 14 | 19 15 29 | 17°34'01 | 22° 4 | 11°37 | 26°42 | 13°26 | 1°32 | 0°30 | 0°17 | 2°43 | 8°45 | 8° 5 | 6°49 | 18°59 | n.a. | T 14 |
| W15 | 19 19 25 | 18°31'39 | 7♋10 | 13° 2 | 27°52 | 13°58 | 1°45 | 0°33 | 0°20 | 2°45 | 8°46 | 7°57 | 6°46 | 19° 6 | n.a. | W15 |
| T 16 | 19 23 22 | 19°29'18 | 22°15 | 14°24 | 29° 2 | 14°31 | 1°58 | 0°37 | 0°24 | 2°47 | 8°47 | 7°47 | 6°43 | 19°12 | n.a. | T 16 |
| F 17 | 19 27 18 | 20°26'58 | 7♌10 | 15°45 | 0♍12 | 15° 3 | 2°11 | 0°40 | 0°27 | 2°50 | 8°49 | 7°37 | 6°40 | 19°19 | n.a. | F 17 |
| S 18 | 19 31 15 | 21°24'40 | 21°45 | 17° 4 | 1°22 | 15°35 | 2°24 | 0°43 | 0°31 | 2°52 | 8°50 | 7°27 | 6°37 | 19°26 | n.a. | S 18 |
| S 19 | 19 35 12 | 22°22'23 | 5♍54 | 18°21 | 2°31 | 16° 7 | 2°37 | 0°46 | 0°34 | 2°54 | 8°51 | 7°18 | 6°34 | 19°32 | n.a. | S 19 |
| M20 | 19 39 8 | 23°20'07 | 19°34 | 19°36 | 3°41 | 16°38 | 2°50 | 0°49 | 0°38 | 2°56 | 8°52 | 7°12 | 6°30 | 19°39 | n.a. | M20 |
| T 21 | 19 43 5 | 24°17'52 | 2♎46 | 20°50 | 4°50 | 17° 9 | 3° 3 | 0°52 | 0°41 | 2°58 | 8°53 | 7° 8 | 6°27 | 19°46 | n.a. | T 21 |
| W22 | 19 47 1 | 25°15'38 | 15°32 | 22° 1 | 6° 0 | 17°40 | 3°16 | 0°55 | 0°45 | 3° 0 | 8°54 | 7° 7 | 6°24 | 19°52 | n.a. | W22 |
| T 23 | 19 50 58 | 26°13'26 | 27°56 | 23°10 | 7° 9 | 18°11 | 3°29 | 0°58 | 0°48 | 3° 2 | 8°55 | 7°D 6 | 6°21 | 19°59 | n.a. | T 23 |
| F 24 | 19 54 54 | 27°11'15 | 10♏ 3 | 24°17 | 8°18 | 18°41 | 3°41 | 1° 0 | 0°51 | 3° 4 | 8°56 | 7°R 6 | 6°18 | 20° 6 | n.a. | F 24 |
| S 25 | 19 58 51 | 28° 9'05 | 21°59 | 25°21 | 9°27 | 19°10 | 3°54 | 1° 3 | 0°55 | 3° 6 | 8°57 | 7° 6 | 6°14 | 20°12 | n.a. | S 25 |
| S 26 | 20 2 47 | 29° 6'57 | 3♐50 | 26°23 | 10°36 | 19°40 | 4° 7 | 1° 5 | 0°58 | 3° 9 | 8°58 | 7° 3 | 6°11 | 20°19 | n.a. | S 26 |
| M27 | 20 6 44 | 0♌ 4'50 | 15°38 | 27°23 | 11°45 | 20° 9 | 4°19 | 1° 8 | 1° 1 | 3°11 | 8°59 | 6°58 | 6° 8 | 20°26 | n.a. | M27 |
| T 28 | 20 10 41 | 1° 2'45 | 27°29 | 28°20 | 12°54 | 20°37 | 4°32 | 1°10 | 1° 5 | 3°13 | 9° 0 | 6°50 | 6° 5 | 20°32 | n.a. | T 28 |
| W29 | 20 14 37 | 2° 0'41 | 9♑26 | 29°14 | 14° 3 | 21° 6 | 4°45 | 1°12 | 1° 8 | 3°15 | 9° 1 | 6°40 | 6° 2 | 20°39 | n.a. | W29 |
| T 30 | 20 18 34 | 2°58'39 | 21°30 | 0♍ 5 | 15°11 | 21°34 | 4°57 | 1°14 | 1°11 | 3°17 | 9° 2 | 6°28 | 5°59 | 20°46 | n.a. | T 30 |
| F 31 | 20 22 30 | 3♌56'38 | 3♒44 | 0♍52 | 16♍20 | 22♈ 1 | 5♋10 | 1♉16 | 1♋14 | 3♋19 | 9♊ 3 | 6♉14 | 5♉55 | 20♐53 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| W 1 | 23n36 | 27s41 | 3s59 | 23n42 | 1n39 | 19n 1 | 1n33 | 0s 0 | 2s36 | 23n52 | 0n10 | 9n16 | 2s20 | 24n 1 | 0n19 | 23n 8 | 0s33 | 17n36 | 4s25 | 14n43 | 14n10 | 26s25 | | | n.a. |
| T 2 | 23 34 | 27 37 | 4 33 | 23 21 | 1 36 | 18 39 | 1 31 | 0n14 | 2 36 | 23 52 | 0 10 | 9 18 | 2 20 | 24 1 | 0 19 | 23 8 | 0 33 | 17 36 | 4 25 | 14 40 | 14 9 | 26 26 | | | n.a. |
| F 3 | 23 31 | 26 15 | 4 55 | 22 59 | 1 31 | 18 17 | 1 29 | 0 28 | 2 37 | 23 52 | 0 10 | 9 19 | 2 21 | 24 1 | 0 19 | 23 8 | 0 33 | 17 36 | 4 25 | 14 36 | 14 8 | 26 27 | | | n.a. |
| S 4 | 23 28 | 23 39 | 5 4 | 22 36 | 1 27 | 17 54 | 1 27 | 0 41 | 2 37 | 23 52 | 0 10 | 9 20 | 2 21 | 24 1 | 0 19 | 23 8 | 0 33 | 17 36 | 4 25 | 14 33 | 14 7 | 26 29 | | | n.a. |
| S 5 | 23 24 | 19 58 | 4 59 | 22 11 | 1 22 | 17 31 | 1 25 | 0 55 | 2 37 | 23 52 | 0 10 | 9 22 | 2 21 | 24 1 | 0 19 | 23 8 | 0 33 | 17 36 | 4 25 | 14 30 | 14 6 | 26 30 | | | n.a. |
| M 6 | 23 20 | 15 21 | 4 40 | 21 45 | 1 16 | 17 8 | 1 23 | 1 9 | 2 38 | 23 53 | 0 10 | 9 23 | 2 21 | 24 1 | 0 19 | 23 8 | 0 33 | 17 37 | 4 25 | 14 27 | 14 5 | 26 31 | | | n.a. |
| T 7 | 23 15 | 10 0 | 4 6 | 21 18 | 1 10 | 16 44 | 1 21 | 1 22 | 2 38 | 23 53 | 0 10 | 9 24 | 2 21 | 24 1 | 0 19 | 23 8 | 0 33 | 17 37 | 4 25 | 14 25 | 14 4 | 26 33 | | | n.a. |
| W 8 | 23 10 | 4 8 | 3 20 | 20 50 | 1 4 | 16 20 | 1 19 | 1 36 | 2 39 | 23 53 | 0 11 | 9 26 | 2 22 | 24 1 | 0 19 | 23 8 | 0 33 | 17 37 | 4 25 | 14 24 | 14 3 | 26 34 | | | n.a. |
| T 9 | 23 5 | 2n 3 | 2 22 | 20 21 | 0 57 | 15 55 | 1 17 | 1 49 | 2 39 | 23 53 | 0 11 | 9 27 | 2 22 | 24 1 | 0 19 | 23 8 | 0 33 | 17 37 | 4 25 | 14 24 | 14 2 | 26 35 | | | n.a. |
| F 10 | 22 59 | 8 19 | 1 14 | 19 52 | 0 50 | 15 30 | 1 15 | 2 2 | 2 39 | 23 53 | 0 11 | 9 28 | 2 22 | 24 1 | 0 19 | 23 8 | 0 33 | 17 37 | 4 25 | 14 24 | 14 1 | 26 36 | | | n.a. |
| S 11 | 22 53 | 14 21 | 0 1 | 19 22 | 0 43 | 15 4 | 1 12 | 2 15 | 2 40 | 23 53 | 0 11 | 9 29 | 2 22 | 24 1 | 0 19 | 23 8 | 0 33 | 17 38 | 4 25 | 14 24 | 14 0 | 26 38 | | | n.a. |
| S 12 | 22 47 | 19 47 | 1n15 | 18 51 | 0 35 | 14 38 | 1 10 | 2 28 | 2 40 | 23 53 | 0 11 | 9 30 | 2 22 | 24 1 | 0 19 | 23 8 | 0 33 | 17 38 | 4 25 | 14 24 | 13 59 | 26 39 | | | n.a. |
| M13 | 22 40 | 24 9 | 2 27 | 18 20 | 0 28 | 14 12 | 1 7 | 2 41 | 2 40 | 23 53 | 0 11 | 9 32 | 2 23 | 24 1 | 0 19 | 23 7 | 0 33 | 17 38 | 4 25 | 14 23 | 13 58 | 26 40 | | | n.a. |
| T 14 | 22 32 | 26 58 | 3 31 | 17 48 | 0 19 | 13 45 | 1 4 | 2 53 | 2 41 | 23 53 | 0 11 | 9 33 | 2 23 | 24 1 | 0 19 | 23 7 | 0 33 | 17 38 | 4 25 | 14 21 | 13 57 | 26 41 | | | n.a. |
| W15 | 22 24 | 27 50 | 4 20 | 17 16 | 0 11 | 13 18 | 1 2 | 3 6 | 2 41 | 23 53 | 0 11 | 9 34 | 2 23 | 24 1 | 0 19 | 23 7 | 0 33 | 17 38 | 4 25 | 14 19 | 13 56 | 26 42 | | | n.a. |
| T 16 | 22 16 | 26 37 | 4 51 | 16 44 | 0 2 | 12 51 | 0 59 | 3 18 | 2 41 | 23 53 | 0 11 | 9 35 | 2 23 | 24 1 | 0 19 | 23 7 | 0 33 | 17 39 | 4 25 | 14 16 | 13 54 | 26 44 | | | n.a. |
| F 17 | 22 8 | 23 32 | 5 2 | 16 11 | 0s 7 | 12 24 | 0 56 | 3 31 | 2 42 | 23 53 | 0 11 | 9 36 | 2 23 | 24 1 | 0 19 | 23 7 | 0 33 | 17 39 | 4 25 | 14 12 | 13 53 | 26 45 | | | n.a. |
| S 18 | 21 59 | 19 1 | 4 53 | 15 39 | 0 16 | 11 56 | 0 53 | 3 43 | 2 42 | 23 53 | 0 12 | 9 37 | 2 24 | 24 1 | 0 19 | 23 7 | 0 33 | 17 39 | 4 25 | 14 9 | 13 52 | 26 46 | | | n.a. |
| S 19 | 21 49 | 13 33 | 4 25 | 15 6 | 0 25 | 11 28 | 0 50 | 3 55 | 2 42 | 23 52 | 0 12 | 9 37 | 2 24 | 24 1 | 0 19 | 23 7 | 0 33 | 17 39 | 4 25 | 14 6 | 13 51 | 26 47 | | | n.a. |
| M20 | 21 40 | 7 36 | 3 44 | 14 34 | 0 34 | 10 59 | 0 47 | 4 7 | 2 42 | 23 52 | 0 12 | 9 38 | 2 24 | 24 1 | 0 19 | 23 7 | 0 33 | 17 39 | 4 25 | 14 4 | 13 50 | 26 49 | | | n.a. |
| T 21 | 21 30 | 1 30 | 2 51 | 14 1 | 0 44 | 10 31 | 0 43 | 4 19 | 2 43 | 23 52 | 0 12 | 9 39 | 2 24 | 24 1 | 0 19 | 23 7 | 0 33 | 17 39 | 4 25 | 14 3 | 13 49 | 26 50 | | | n.a. |
| W22 | 21 19 | 4s28 | 1 52 | 13 29 | 0 54 | 10 2 | 0 40 | 4 30 | 2 43 | 23 52 | 0 12 | 9 40 | 2 25 | 24 1 | 0 19 | 23 7 | 0 33 | 17 39 | 4 25 | 14 2 | 13 48 | 26 51 | | | n.a. |
| T 23 | 21 8 | 10 6 | 0 48 | 12 57 | 1 4 | 9 33 | 0 37 | 4 42 | 2 43 | 23 52 | 0 12 | 9 41 | 2 25 | 24 1 | 0 19 | 23 7 | 0 33 | 17 40 | 4 25 | 14 2 | 13 47 | 26 52 | | | n.a. |
| F 24 | 20 57 | 15 14 | 0s16 | 12 25 | 1 14 | 9 3 | 0 33 | 4 53 | 2 43 | 23 51 | 0 12 | 9 41 | 2 25 | 24 1 | 0 19 | 23 7 | 0 33 | 17 40 | 4 25 | 14 2 | 13 46 | 26 53 | | | n.a. |
| S 25 | 20 46 | 19 43 | 1 18 | 11 54 | 1 24 | 8 34 | 0 29 | 5 4 | 2 43 | 23 51 | 0 12 | 9 42 | 2 25 | 24 1 | 0 19 | 23 7 | 0 33 | 17 40 | 4 26 | 14 2 | 13 45 | 26 54 | | | n.a. |
| S 26 | 20 34 | 23 23 | 2 16 | 11 23 | 1 34 | 8 4 | 0 26 | 5 15 | 2 44 | 23 51 | 0 13 | 9 43 | 2 25 | 24 1 | 0 19 | 23 7 | 0 33 | 17 40 | 4 26 | 14 1 | 13 44 | 26 55 | | | n.a. |
| M27 | 20 21 | 26 3 | 3 9 | 10 53 | 1 44 | 7 34 | 0 22 | 5 26 | 2 44 | 23 51 | 0 13 | 9 43 | 2 26 | 24 1 | 0 19 | 23 7 | 0 33 | 17 40 | 4 26 | 13 59 | 13 43 | 26 57 | | | n.a. |
| T 28 | 20 9 | 27 34 | 3 53 | 10 24 | 1 54 | 7 4 | 0 18 | 5 37 | 2 44 | 23 50 | 0 13 | 9 44 | 2 26 | 24 1 | 0 19 | 23 7 | 0 33 | 17 40 | 4 26 | 13 57 | 13 42 | 26 58 | | | n.a. |
| W29 | 19 56 | 27 48 | 4 27 | 9 56 | 2 4 | 6 34 | 0 15 | 5 47 | 2 44 | 23 50 | 0 13 | 9 44 | 2 26 | 24 1 | 0 19 | 23 7 | 0 33 | 17 40 | 4 26 | 13 53 | 13 41 | 26 59 | | | n.a. |
| T 30 | 19 43 | 26 44 | 4 50 | 9 28 | 2 15 | 6 4 | 0 11 | 5 58 | 2 44 | 23 50 | 0 13 | 9 45 | 2 26 | 24 1 | 0 19 | 23 7 | 0 33 | 17 40 | 4 26 | 13 49 | 13 40 | 27 0 | | | n.a. |
| F 31 | 19n29 | 24s23 | 4s59 | 9n 2 | 2s25 | 5n33 | 0n 7 | 6n 8 | 2s44 | 23n49 | 0n13 | 9n45 | 2s27 | 24n 1 | 0n19 | 23n 7 | 0s33 | 17n41 | 4s26 | 13n45 | 13n39 | 27s 1 | | | n.a. |

Julian Day Number = 1698593.5, Delta T = 03h06m45s
Ecliptic obliquity = 23°42'16, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°55'37, Lahiri = - 4°48'36 Julian Calendar 1 July 63 BCE == Greg. Calendar 29 June 063 BCE

The year -62 astronomical counting style corresponds to year 063 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 63 BCE
# geocentric

## AUGUST 63 BCE (-62) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 26 27 | 4♌54'39 | 16♒ 7 | 1♍37 | 17♍28 | 22♈28 | 5♋22 | 1♉18 | 1♋18 | 3♋21 | 9♊ 4 | 6°R 1 | 5♉52 | 20♐59 | n.a. | S 1 |
| S 2 | 20 30 23 | 5°52'42 | 28°41 | 2°17 | 18°36 | 22°55 | 5°34 | 1°19 | 1°21 | 3°23 | 9° 5 | 5♉48 | 5°49 | 21° 6 | n.a. | S 2 |
| M 3 | 20 34 20 | 6°50'46 | 11♓25 | 2°54 | 19°44 | 23°22 | 5°47 | 1°21 | 1°24 | 3°24 | 9° 6 | 5°38 | 5°46 | 21°13 | n.a. | M 3 |
| T 4 | 20 38 16 | 7°48'53 | 24°21 | 3°27 | 20°52 | 23°48 | 5°59 | 1°23 | 1°27 | 3°26 | 9° 7 | 5°31 | 5°43 | 21°19 | n.a. | T 4 |
| W 5 | 20 42 13 | 8°47'01 | 7♈28 | 3°55 | 22° 0 | 24°13 | 6°11 | 1°24 | 1°30 | 3°28 | 9° 8 | 5°26 | 5°40 | 21°26 | n.a. | W 5 |
| T 6 | 20 46 10 | 9°45'12 | 20°48 | 4°19 | 23° 8 | 24°38 | 6°23 | 1°25 | 1°33 | 3°30 | 9° 9 | 5°24 | 5°36 | 21°33 | n.a. | T 6 |
| F 7 | 20 50 6 | 10°43'25 | 4♉23 | 4°38 | 24°16 | 25° 3 | 6°35 | 1°26 | 1°36 | 3°32 | 9° 9 | 5°24 | 5°33 | 21°39 | n.a. | F 7 |
| S 8 | 20 54 3 | 11°41'40 | 18°14 | 4°51 | 25°23 | 25°27 | 6°48 | 1°27 | 1°39 | 3°34 | 9°10 | 5°24 | 5°30 | 21°46 | n.a. | S 8 |
| S 9 | 20 57 59 | 12°39'57 | 2♊22 | 4°59 | 26°31 | 25°51 | 7° 0 | 1°28 | 1°42 | 3°36 | 9°11 | 5°23 | 5°27 | 21°53 | n.a. | S 9 |
| M10 | 21 1 56 | 13°38'16 | 16°46 | 5°R 2 | 27°38 | 26°14 | 7°11 | 1°29 | 1°45 | 3°38 | 9°12 | 5°20 | 5°24 | 21°59 | n.a. | M10 |
| T 11 | 21 5 52 | 14°36'38 | 1♋23 | 4°58 | 28°45 | 26°37 | 7°23 | 1°30 | 1°48 | 3°39 | 9°12 | 5°14 | 5°20 | 22° 6 | n.a. | T 11 |
| W12 | 21 9 49 | 15°35'02 | 16° 8 | 4°47 | 29°52 | 26°59 | 7°35 | 1°31 | 1°51 | 3°41 | 9°13 | 5° 6 | 5°17 | 22°13 | n.a. | W12 |
| T 13 | 21 13 45 | 16°33'28 | 0♌54 | 4°30 | 0♎59 | 27°21 | 7°47 | 1°31 | 1°54 | 3°43 | 9°14 | 4°56 | 5°14 | 22°19 | n.a. | T 13 |
| F 14 | 21 17 42 | 17°31'56 | 15°33 | 4° 7 | 2° 6 | 27°42 | 7°59 | 1°32 | 1°57 | 3°45 | 9°15 | 4°44 | 5°11 | 22°26 | n.a. | F 14 |
| S 15 | 21 21 39 | 18°30'26 | 29°58 | 3°36 | 3°12 | 28° 2 | 8°10 | 1°32 | 2° 0 | 3°46 | 9°15 | 4°33 | 5° 8 | 22°33 | n.a. | S 15 |
| S 16 | 21 25 35 | 19°28'57 | 14♍ 1 | 3° 0 | 4°19 | 28°22 | 8°22 | 1°32 | 2° 2 | 3°48 | 9°16 | 4°24 | 5° 5 | 22°40 | n.a. | S 16 |
| M17 | 21 29 32 | 20°27'31 | 27°40 | 2°16 | 5°25 | 28°42 | 8°33 | 1°R32 | 2° 5 | 3°50 | 9°16 | 4°17 | 5° 1 | 22°46 | n.a. | M17 |
| T 18 | 21 33 28 | 21°26'06 | 10♎52 | 1°27 | 6°31 | 29° 1 | 8°45 | 1°32 | 2° 8 | 3°51 | 9°17 | 4°12 | 4°58 | 22°53 | n.a. | T 18 |
| W19 | 21 37 25 | 22°24'43 | 23°39 | 0°33 | 7°37 | 29°19 | 8°56 | 1°32 | 2°11 | 3°53 | 9°18 | 4°10 | 4°55 | 23° 0 | n.a. | W19 |
| T 20 | 21 41 21 | 23°23'22 | 6♏ 5 | 29♌34 | 8°43 | 29°37 | 9° 7 | 1°32 | 2°13 | 3°55 | 9°18 | 4°D10 | 4°52 | 23° 6 | n.a. | T 20 |
| F 21 | 21 45 18 | 24°22'03 | 18°14 | 28°32 | 9°48 | 29°54 | 9°18 | 1°31 | 2°16 | 3°56 | 9°19 | 4°10 | 4°49 | 23°13 | n.a. | F 21 |
| S 22 | 21 49 14 | 25°20'46 | 0♐12 | 27°29 | 10°54 | 0♉10 | 9°29 | 1°31 | 2°18 | 3°58 | 9°19 | 4°R10 | 4°46 | 23°20 | n.a. | S 22 |
| S 23 | 21 53 11 | 26°19'30 | 12° 3 | 26°24 | 11°59 | 0°26 | 9°40 | 1°30 | 2°21 | 3°59 | 9°20 | 4° 9 | 4°42 | 23°26 | n.a. | S 23 |
| M24 | 21 57 7 | 27°18'16 | 23°53 | 25°20 | 13° 4 | 0°42 | 9°51 | 1°30 | 2°23 | 4° 1 | 9°20 | 4° 5 | 4°39 | 23°33 | n.a. | M24 |
| T 25 | 22 1 4 | 28°17'04 | 5♑46 | 24°19 | 14° 9 | 0°56 | 10° 2 | 1°29 | 2°26 | 4° 2 | 9°21 | 3°59 | 4°36 | 23°40 | n.a. | T 25 |
| W26 | 22 5 1 | 29°15'54 | 17°48 | 23°23 | 15°14 | 1°10 | 10°13 | 1°28 | 2°28 | 4° 4 | 9°21 | 3°51 | 4°33 | 23°46 | n.a. | W26 |
| T 27 | 22 8 57 | 0♍14'46 | 29°59 | 22°31 | 16°18 | 1°23 | 10°24 | 1°27 | 2°30 | 4° 5 | 9°21 | 3°41 | 4°30 | 23°53 | n.a. | T 27 |
| F 28 | 22 12 54 | 1°13'40 | 12♒24 | 21°47 | 17°22 | 1°36 | 10°34 | 1°26 | 2°33 | 4° 6 | 9°22 | 3°30 | 4°26 | 24° 0 | n.a. | F 28 |
| S 29 | 22 16 50 | 2°12'36 | 25° 2 | 21°11 | 18°26 | 1°48 | 10°45 | 1°25 | 2°35 | 4° 8 | 9°22 | 3°18 | 4°23 | 24° 7 | n.a. | S 29 |
| S 30 | 22 20 47 | 3°11'34 | 7♓54 | 20°45 | 19°30 | 1°59 | 10°55 | 1°23 | 2°37 | 4° 9 | 9°22 | 3° 8 | 4°20 | 24°13 | n.a. | S 30 |
| M31 | 22 24 43 | 4♍10'34 | 20♓59 | 20♌28 | 20♎33 | 2♉ 9 | 11♋ 6 | 1♉22 | 2♋39 | 4♋10 | 9♊23 | 3♉ 0 | 4♉17 | 24♐20 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 19n15 | 20s52 | 4s55 | 8n37 | 2s35 | 5n 3 | 0n 3 | 6n18 | 2s44 | 23n49 | 0n13 | 9n46 | 2s27 | 24n 1 | 0n19 | 23n 7 | 0s33 | 17n41 | 4s26 | 13n40 | 13n38 | 27s 2 | | n.a. |
| S 2 | 19 1 | 16 22 | 4 37 | 8 13 | 2 45 | 4 32 | 0s 1 | 6 28 | 2 44 | 23 48 | 0 13 | 9 46 | 2 27 | 24 1 | 0 19 | 23 7 | 0 33 | 17 41 | 4 26 | 13 36 | 13 36 | 27 3 | | n.a. |
| M 3 | 18 46 | 11 7 | 4 4 | 7 50 | 2 55 | 4 1 | 0 6 | 6 38 | 2 44 | 23 48 | 0 13 | 9 46 | 2 27 | 24 1 | 0 19 | 23 7 | 0 33 | 17 41 | 4 26 | 13 33 | 13 35 | 27 4 | | n.a. |
| T 4 | 18 31 | 5 18 | 3 18 | 7 30 | 3 4 | 3 30 | 0 10 | 6 48 | 2 44 | 23 48 | 0 14 | 9 47 | 2 28 | 24 1 | 0 19 | 23 7 | 0 33 | 17 41 | 4 26 | 13 30 | 13 34 | 27 5 | | n.a. |
| W 5 | 18 16 | 0n50 | 2 22 | 7 11 | 3 13 | 2 59 | 0 14 | 6 57 | 2 44 | 23 47 | 0 14 | 9 47 | 2 28 | 24 1 | 0 19 | 23 6 | 0 33 | 17 41 | 4 26 | 13 29 | 13 33 | 27 6 | | n.a. |
| T 6 | 18 0 | 7 2 | 1 16 | 6 54 | 3 22 | 2 28 | 0 18 | 7 6 | 2 44 | 23 47 | 0 14 | 9 47 | 2 28 | 24 1 | 0 19 | 23 6 | 0 33 | 17 41 | 4 26 | 13 28 | 13 32 | 27 8 | | n.a. |
| F 7 | 17 44 | 13 2 | 0 5 | 6 39 | 3 31 | 1 57 | 0 23 | 7 15 | 2 44 | 23 46 | 0 14 | 9 47 | 2 28 | 24 1 | 0 20 | 23 6 | 0 33 | 17 41 | 4 26 | 13 28 | 13 31 | 27 9 | | n.a. |
| S 8 | 17 28 | 18 32 | 1n 7 | 6 27 | 3 39 | 1 26 | 0 27 | 7 24 | 2 44 | 23 46 | 0 14 | 9 47 | 2 29 | 24 1 | 0 20 | 23 6 | 0 33 | 17 41 | 4 26 | 13 28 | 13 30 | 27 10 | | n.a. |
| S 9 | 17 12 | 23 6 | 2 17 | 6 17 | 3 46 | 0 55 | 0 32 | 7 33 | 2 44 | 23 45 | 0 14 | 9 48 | 2 29 | 24 1 | 0 20 | 23 6 | 0 33 | 17 41 | 4 26 | 13 28 | 13 29 | 27 11 | | n.a. |
| M10 | 16 55 | 26 21 | 3 20 | 6 10 | 3 53 | 0 24 | 0 36 | 7 42 | 2 44 | 23 45 | 0 14 | 9 48 | 2 29 | 24 1 | 0 20 | 23 6 | 0 33 | 17 42 | 4 26 | 13 27 | 13 28 | 27 12 | | n.a. |
| T 11 | 16 38 | 27 52 | 4 10 | 6 6 | 3 58 | 0s 7 | 0 41 | 7 50 | 2 44 | 23 44 | 0 14 | 9 48 | 2 29 | 24 1 | 0 20 | 23 6 | 0 33 | 17 42 | 4 26 | 13 25 | 13 27 | 27 13 | | n.a. |
| W12 | 16 20 | 27 26 | 4 45 | 6 6 | 4 3 | 0 39 | 0 46 | 7 58 | 2 43 | 23 44 | 0 15 | 9 48 | 2 30 | 24 1 | 0 20 | 23 6 | 0 33 | 17 42 | 4 26 | 13 22 | 13 26 | 27 14 | | n.a. |
| T 13 | 16 3 | 25 3 | 5 0 | 6 8 | 4 7 | 1 10 | 0 50 | 8 6 | 2 43 | 23 43 | 0 15 | 9 48 | 2 30 | 24 1 | 0 20 | 23 6 | 0 33 | 17 42 | 4 26 | 13 18 | 13 25 | 27 15 | | n.a. |
| F 14 | 15 45 | 21 3 | 4 56 | 6 14 | 4 9 | 1 41 | 0 55 | 8 14 | 2 43 | 23 42 | 0 15 | 9 48 | 2 30 | 24 1 | 0 20 | 23 6 | 0 33 | 17 42 | 4 26 | 13 15 | 13 24 | 27 16 | | n.a. |
| S 15 | 15 27 | 15 51 | 4 32 | 6 24 | 4 10 | 2 12 | 1 0 | 8 22 | 2 43 | 23 42 | 0 15 | 9 47 | 2 30 | 24 1 | 0 20 | 23 6 | 0 33 | 17 42 | 4 26 | 13 11 | 13 23 | 27 17 | | n.a. |
| S 16 | 15 8 | 9 55 | 3 53 | 6 38 | 4 10 | 2 43 | 1 5 | 8 29 | 2 43 | 23 41 | 0 15 | 9 47 | 2 30 | 24 1 | 0 20 | 23 6 | 0 33 | 17 42 | 4 26 | 13 8 | 13 21 | 27 18 | | n.a. |
| M17 | 14 50 | 3 42 | 3 1 | 6 56 | 4 8 | 3 14 | 1 9 | 8 36 | 2 42 | 23 41 | 0 15 | 9 47 | 2 31 | 24 1 | 0 20 | 23 6 | 0 33 | 17 42 | 4 26 | 13 5 | 13 20 | 27 19 | | n.a. |
| T 18 | 14 31 | 2s30 | 2 0 | 7 17 | 4 4 | 3 45 | 1 14 | 8 43 | 2 42 | 23 40 | 0 15 | 9 47 | 2 31 | 24 1 | 0 20 | 23 6 | 0 33 | 17 42 | 4 26 | 13 4 | 13 19 | 27 20 | | n.a. |
| W19 | 14 12 | 8 25 | 0 56 | 7 42 | 3 58 | 4 16 | 1 19 | 8 50 | 2 42 | 23 39 | 0 15 | 9 47 | 2 31 | 24 1 | 0 20 | 23 6 | 0 33 | 17 42 | 4 26 | 13 3 | 13 18 | 27 21 | | n.a. |
| T 20 | 13 52 | 13 51 | 0s10 | 8 9 | 3 50 | 4 47 | 1 24 | 8 57 | 2 41 | 23 39 | 0 16 | 9 46 | 2 31 | 24 1 | 0 20 | 23 6 | 0 33 | 17 42 | 4 26 | 13 3 | 13 17 | 27 22 | | n.a. |
| F 21 | 13 33 | 18 38 | 1 14 | 8 40 | 3 40 | 5 17 | 1 29 | 9 3 | 2 41 | 23 38 | 0 16 | 9 46 | 2 32 | 24 1 | 0 20 | 23 6 | 0 33 | 17 42 | 4 27 | 13 3 | 13 16 | 27 23 | | n.a. |
| S 22 | 13 13 | 22 36 | 2 14 | 9 13 | 3 28 | 5 48 | 1 34 | 9 9 | 2 40 | 23 37 | 0 16 | 9 46 | 2 32 | 24 1 | 0 20 | 23 6 | 0 33 | 17 42 | 4 27 | 13 3 | 13 15 | 27 23 | | n.a. |
| S 23 | 12 53 | 25 35 | 3 7 | 9 48 | 3 15 | 6 18 | 1 39 | 9 15 | 2 40 | 23 37 | 0 16 | 9 45 | 2 32 | 24 1 | 0 20 | 23 6 | 0 33 | 17 42 | 4 27 | 13 2 | 13 14 | 27 24 | | n.a. |
| M24 | 12 33 | 27 26 | 3 52 | 10 24 | 2 59 | 6 49 | 1 44 | 9 21 | 2 40 | 23 36 | 0 16 | 9 45 | 2 32 | 24 1 | 0 20 | 23 6 | 0 33 | 17 42 | 4 27 | 13 1 | 13 13 | 27 25 | | n.a. |
| T 25 | 12 12 | 28 2 | 4 28 | 11 1 | 2 42 | 7 19 | 1 49 | 9 27 | 2 39 | 23 35 | 0 16 | 9 44 | 2 33 | 24 1 | 0 20 | 23 5 | 0 33 | 17 42 | 4 27 | 12 59 | 13 12 | 27 26 | | n.a. |
| W26 | 11 51 | 27 19 | 4 51 | 11 36 | 2 24 | 7 49 | 1 54 | 9 32 | 2 38 | 23 35 | 0 16 | 9 44 | 2 33 | 24 1 | 0 20 | 23 5 | 0 33 | 17 42 | 4 27 | 12 56 | 13 11 | 27 27 | | n.a. |
| T 27 | 11 30 | 25 18 | 5 2 | 12 11 | 2 5 | 8 18 | 1 59 | 9 37 | 2 38 | 23 34 | 0 17 | 9 43 | 2 33 | 24 1 | 0 20 | 23 5 | 0 33 | 17 42 | 4 27 | 12 53 | 13 10 | 27 28 | | n.a. |
| F 28 | 11 9 | 22 3 | 4 59 | 12 44 | 1 46 | 8 48 | 2 4 | 9 42 | 2 37 | 23 33 | 0 17 | 9 43 | 2 33 | 24 1 | 0 20 | 23 5 | 0 33 | 17 42 | 4 27 | 12 49 | 13 9 | 27 29 | | n.a. |
| S 29 | 10 48 | 17 44 | 4 42 | 13 14 | 1 26 | 9 17 | 2 9 | 9 47 | 2 37 | 23 33 | 0 17 | 9 42 | 2 33 | 24 1 | 0 20 | 23 5 | 0 33 | 17 42 | 4 27 | 12 45 | 13 7 | 27 30 | | n.a. |
| S 30 | 10 27 | 12 33 | 4 10 | 13 42 | 1 6 | 9 47 | 2 14 | 9 51 | 2 36 | 23 32 | 0 17 | 9 41 | 2 34 | 24 1 | 0 20 | 23 5 | 0 33 | 17 42 | 4 27 | 12 42 | 13 6 | 27 31 | | n.a. |
| M31 | 10n 5 | 6s44 | 3s24 | 14n 6 | 0s46 | 10s16 | 2s19 | 9n56 | 2s35 | 23n31 | 0n17 | 9n41 | 2s34 | 24n 1 | 0n20 | 23n 5 | 0s33 | 17n42 | 4s27 | 12n39 | 13n 5 | 27s32 | | n.a. |

Julian Day Number = 1698624.5, Delta T = 03h06m44s
Ecliptic obliquity = 23°42'17, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°55'32, Lahiri = - 4°48'32 Julian Calendar 1 Aug. 63 BCE == Greg. Calendar 30 July 063 BCE

The year -62 astronomical counting style corresponds to year 063 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 63 BCE
# geocentric

## SEPTEMBER 63 BCE (-62) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 22 28 40 | 5♍ 9'36 | 4♈15 | 20°D21 | 21♎36 | 2♉19 | 11♋16 | 1°R20 | 2♋42 | 4♋12 | 9♊23 | 2°R54 | 4♉14 | 24♐27 | n.a. | T 1 |
| W 2 | 22 32 36 | 6° 8'40 | 17°42 | 20♌24 | 22°39 | 2°28 | 11°26 | 1♉19 | 2°44 | 4°13 | 9°23 | 2♉51 | 4°11 | 24°33 | n.a. | W 2 |
| T 3 | 22 36 33 | 7° 7'47 | 1♉19 | 20°38 | 23°42 | 2°36 | 11°36 | 1°17 | 2°46 | 4°14 | 9°23 | 2°D49 | 4° 7 | 24°40 | n.a. | T 3 |
| F 4 | 22 40 30 | 8° 6'56 | 15° 6 | 21° 2 | 24°44 | 2°43 | 11°46 | 1°15 | 2°48 | 4°15 | 9°24 | 2°50 | 4° 4 | 24°47 | n.a. | F 4 |
| S 5 | 22 44 26 | 9° 6'08 | 29° 1 | 21°35 | 25°46 | 2°50 | 11°56 | 1°13 | 2°50 | 4°17 | 9°24 | 2°51 | 4° 1 | 24°53 | n.a. | S 5 |
| S 6 | 22 48 23 | 10° 5'22 | 13♊ 5 | 22°18 | 26°48 | 2°56 | 12° 5 | 1°11 | 2°52 | 4°18 | 9°24 | 2°R51 | 3°58 | 25° 0 | n.a. | S 6 |
| M 7 | 22 52 19 | 11° 4'38 | 27°17 | 23° 9 | 27°50 | 3° 0 | 12°15 | 1° 9 | 2°53 | 4°19 | 9°24 | 2°50 | 3°55 | 25° 7 | n.a. | M 7 |
| T 8 | 22 56 16 | 12° 3'58 | 11♋35 | 24° 8 | 28°51 | 3° 5 | 12°25 | 1° 7 | 2°55 | 4°20 | 9°24 | 2°47 | 3°52 | 25°13 | n.a. | T 8 |
| W 9 | 23 0 12 | 13° 3'19 | 25°55 | 25°13 | 29°52 | 3° 8 | 12°34 | 1° 4 | 2°57 | 4°21 | 9°24 | 2°41 | 3°48 | 25°20 | n.a. | W 9 |
| T 10 | 23 4 9 | 14° 2'43 | 10♌15 | 26°25 | 0♏52 | 3°10 | 12°43 | 1° 2 | 2°59 | 4°22 | 9°24 | 2°34 | 3°45 | 25°27 | n.a. | T 10 |
| F 11 | 23 8 5 | 15° 2'09 | 24°28 | 27°43 | 1°53 | 3°12 | 12°52 | 0°59 | 3° 0 | 4°23 | 9°25 | 2°26 | 3°42 | 25°34 | n.a. | F 11 |
| S 12 | 23 12 2 | 16° 1'37 | 8♍30 | 29° 5 | 2°53 | 3°R12 | 13° 2 | 0°56 | 3° 2 | 4°24 | 9°R25 | 2°19 | 3°39 | 25°40 | n.a. | S 12 |
| S 13 | 23 15 59 | 17° 1'08 | 22°15 | 0♍31 | 3°52 | 3°12 | 13°11 | 0°54 | 3° 4 | 4°25 | 9°25 | 2°12 | 3°36 | 25°47 | n.a. | S 13 |
| M14 | 23 19 55 | 18° 0'40 | 5♎41 | 2° 1 | 4°51 | 3°11 | 13°19 | 0°51 | 3° 5 | 4°26 | 9°24 | 2° 7 | 3°32 | 25°54 | n.a. | M14 |
| T 15 | 23 23 52 | 19° 0'15 | 18°46 | 3°34 | 5°50 | 3° 9 | 13°28 | 0°48 | 3° 7 | 4°27 | 9°24 | 2° 4 | 3°29 | 26° 0 | n.a. | T 15 |
| W16 | 23 27 48 | 19°59'51 | 1♏30 | 5° 9 | 6°48 | 3° 6 | 13°37 | 0°45 | 3° 8 | 4°28 | 9°24 | 2°D 3 | 3°26 | 26° 7 | n.a. | W16 |
| T 17 | 23 31 45 | 20°59'30 | 13°55 | 6°46 | 7°46 | 3° 2 | 13°45 | 0°42 | 3° 9 | 4°28 | 9°24 | 2° 4 | 3°23 | 26°14 | n.a. | T 17 |
| F 18 | 23 35 41 | 21°59'10 | 26° 5 | 8°24 | 8°44 | 2°57 | 13°54 | 0°38 | 3°11 | 4°29 | 9°24 | 2° 5 | 3°20 | 26°20 | n.a. | F 18 |
| S 19 | 23 39 38 | 22°58'52 | 8♐ 4 | 10° 4 | 9°41 | 2°51 | 14° 2 | 0°35 | 3°12 | 4°30 | 9°24 | 2° 7 | 3°17 | 26°27 | n.a. | S 19 |
| S 20 | 23 43 34 | 23°58'36 | 19°56 | 11°45 | 10°37 | 2°45 | 14°10 | 0°32 | 3°13 | 4°31 | 9°24 | 2°R 8 | 3°13 | 26°34 | n.a. | S 20 |
| M21 | 23 47 31 | 24°58'22 | 1♑47 | 13°26 | 11°33 | 2°38 | 14°18 | 0°28 | 3°15 | 4°31 | 9°24 | 2° 8 | 3°10 | 26°40 | n.a. | M21 |
| T 22 | 23 51 27 | 25°58'10 | 13°42 | 15° 8 | 12°29 | 2°29 | 14°26 | 0°25 | 3°16 | 4°32 | 9°23 | 2° 6 | 3° 7 | 26°47 | n.a. | T 22 |
| W23 | 23 55 24 | 26°58'00 | 25°45 | 16°50 | 13°24 | 2°20 | 14°33 | 0°21 | 3°17 | 4°33 | 9°23 | 2° 3 | 3° 4 | 26°54 | n.a. | W23 |
| T 24 | 23 59 21 | 27°57'51 | 8♒ 0 | 18°32 | 14°18 | 2°10 | 14°41 | 0°17 | 3°18 | 4°33 | 9°23 | 1°58 | 3° 1 | 27° 1 | n.a. | T 24 |
| F 25 | 0 3 17 | 28°57'44 | 20°32 | 20°14 | 15°12 | 1°59 | 14°48 | 0°14 | 3°19 | 4°34 | 9°23 | 1°52 | 2°57 | 27° 7 | n.a. | F 25 |
| S 26 | 0 7 14 | 29°57'39 | 3♓21 | 21°56 | 16° 6 | 1°48 | 14°56 | 0°10 | 3°20 | 4°34 | 9°22 | 1°47 | 2°54 | 27°14 | n.a. | S 26 |
| S 27 | 0 11 10 | 0♎57'36 | 16°28 | 23°38 | 16°58 | 1°35 | 15° 3 | 0° 6 | 3°20 | 4°35 | 9°22 | 1°42 | 2°51 | 27°21 | n.a. | S 27 |
| M28 | 0 15 7 | 1°57'34 | 29°53 | 25°19 | 17°50 | 1°22 | 15°10 | 0° 2 | 3°21 | 4°35 | 9°22 | 1°38 | 2°48 | 27°27 | n.a. | M28 |
| T 29 | 0 19 3 | 2°57'35 | 13♈33 | 27° 1 | 18°41 | 1° 8 | 15°17 | 29♈58 | 3°22 | 4°35 | 9°21 | 1°35 | 2°45 | 27°34 | n.a. | T 29 |
| W30 | 0 23 0 | 3♎57'38 | 27♈27 | 28♍41 | 19♏32 | 0♉53 | 15♋23 | 29♈54 | 3♋23 | 4♋36 | 9♊21 | 1°D34 | 2♉42 | 27♐41 | n.a. | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 9n43 | 0s32 | 2s27 | 14n26 | 0s28 | 10s44 | 2s24 | 10n 0 | 2s34 | 23n30 | 0n17 | 9n40 | 2s34 | 24n 1 | 0n20 | 23n 5 | 0s33 | 17n42 | 4s27 | 12n37 | 13n 4 | 27s32 | | n.a. |
| W 2 | 9 21 | 5n47 | 1 20 | 14 42 | 0 9 | 11 13 | 2 29 | 10 4 | 2 34 | 23 30 | 0 17 | 9 39 | 2 34 | 24 1 | 0 20 | 23 5 | 0 33 | 17 42 | 4 27 | 12 36 | 13 3 | 27 33 | | n.a. |
| T 3 | 8 59 | 11 56 | 0 8 | 14 54 | 0n 8 | 11 41 | 2 34 | 10 7 | 2 33 | 23 29 | 0 18 | 9 38 | 2 34 | 24 1 | 0 20 | 23 5 | 0 33 | 17 42 | 4 27 | 12 35 | 13 2 | 27 34 | | n.a. |
| F 4 | 8 37 | 17 35 | 1n 5 | 15 1 | 0 24 | 12 9 | 2 39 | 10 10 | 2 32 | 23 28 | 0 18 | 9 37 | 2 35 | 24 1 | 0 20 | 23 5 | 0 33 | 17 42 | 4 27 | 12 35 | 13 1 | 27 35 | | n.a. |
| S 5 | 8 15 | 22 22 | 2 16 | 15 4 | 0 38 | 12 37 | 2 44 | 10 14 | 2 31 | 23 28 | 0 18 | 9 37 | 2 35 | 24 1 | 0 20 | 23 5 | 0 33 | 17 42 | 4 27 | 12 36 | 13 0 | 27 36 | | n.a. |
| S 6 | 7 52 | 25 54 | 3 19 | 15 3 | 0 52 | 13 4 | 2 49 | 10 16 | 2 30 | 23 27 | 0 18 | 9 36 | 2 35 | 24 1 | 0 20 | 23 5 | 0 33 | 17 42 | 4 27 | 12 36 | 12 59 | 27 37 | | n.a. |
| M 7 | 7 29 | 27 51 | 4 10 | 14 58 | 1 4 | 13 31 | 2 54 | 10 19 | 2 29 | 23 26 | 0 18 | 9 35 | 2 35 | 24 1 | 0 20 | 23 5 | 0 33 | 17 42 | 4 27 | 12 35 | 12 58 | 27 37 | | n.a. |
| T 8 | 7 7 | 27 57 | 4 46 | 14 48 | 1 15 | 13 58 | 2 59 | 10 21 | 2 28 | 23 25 | 0 18 | 9 34 | 2 35 | 24 1 | 0 20 | 23 5 | 0 33 | 17 42 | 4 27 | 12 34 | 12 57 | 27 38 | | n.a. |
| W 9 | 6 44 | 26 11 | 5 5 | 14 35 | 1 24 | 14 25 | 3 4 | 10 24 | 2 27 | 23 25 | 0 18 | 9 33 | 2 36 | 24 1 | 0 20 | 23 5 | 0 33 | 17 42 | 4 27 | 12 32 | 12 56 | 27 39 | | n.a. |
| T 10 | 6 21 | 22 45 | 5 4 | 14 18 | 1 32 | 14 51 | 3 9 | 10 26 | 2 26 | 23 24 | 0 19 | 9 32 | 2 36 | 24 1 | 0 20 | 23 5 | 0 33 | 17 42 | 4 27 | 12 30 | 12 54 | 27 40 | | n.a. |
| F 11 | 5 58 | 17 59 | 4 45 | 13 57 | 1 39 | 15 17 | 3 14 | 10 27 | 2 25 | 23 23 | 0 19 | 9 31 | 2 36 | 24 1 | 0 20 | 23 5 | 0 33 | 17 42 | 4 28 | 12 27 | 12 53 | 27 41 | | n.a. |
| S 12 | 5 34 | 12 18 | 4 8 | 13 34 | 1 45 | 15 43 | 3 19 | 10 29 | 2 23 | 23 22 | 0 19 | 9 29 | 2 36 | 24 1 | 0 20 | 23 5 | 0 33 | 17 42 | 4 28 | 12 25 | 12 52 | 27 41 | | n.a. |
| S 13 | 5 11 | 6 8 | 3 18 | 13 7 | 1 50 | 16 8 | 3 23 | 10 30 | 2 22 | 23 22 | 0 19 | 9 28 | 2 36 | 24 1 | 0 20 | 23 5 | 0 33 | 17 42 | 4 28 | 12 22 | 12 51 | 27 42 | | n.a. |
| M14 | 4 47 | 0s11 | 2 18 | 12 38 | 1 53 | 16 33 | 3 28 | 10 31 | 2 21 | 23 21 | 0 19 | 9 27 | 2 37 | 24 0 | 0 20 | 23 5 | 0 33 | 17 42 | 4 28 | 12 20 | 12 50 | 27 43 | | n.a. |
| T 15 | 4 24 | 6 20 | 1 11 | 12 6 | 1 56 | 16 57 | 3 33 | 10 31 | 2 19 | 23 20 | 0 19 | 9 26 | 2 37 | 24 0 | 0 20 | 23 5 | 0 33 | 17 42 | 4 28 | 12 19 | 12 49 | 27 44 | | n.a. |
| W16 | 4 0 | 12 5 | 0 3 | 11 33 | 1 57 | 17 21 | 3 37 | 10 32 | 2 18 | 23 19 | 0 20 | 9 25 | 2 37 | 24 0 | 0 20 | 23 5 | 0 33 | 17 42 | 4 28 | 12 19 | 12 48 | 27 44 | | n.a. |
| T 17 | 3 37 | 17 13 | 1s 4 | 10 57 | 1 58 | 17 45 | 3 42 | 10 32 | 2 16 | 23 19 | 0 20 | 9 24 | 2 37 | 24 0 | 0 20 | 23 5 | 0 33 | 17 42 | 4 28 | 12 19 | 12 47 | 27 45 | | n.a. |
| F 18 | 3 13 | 21 32 | 2 7 | 10 20 | 1 58 | 18 8 | 3 46 | 10 31 | 2 15 | 23 18 | 0 20 | 9 22 | 2 37 | 24 0 | 0 21 | 23 4 | 0 33 | 17 42 | 4 28 | 12 20 | 12 46 | 27 46 | | n.a. |
| S 19 | 2 49 | 24 54 | 3 3 | 9 41 | 1 57 | 18 31 | 3 51 | 10 31 | 2 13 | 23 17 | 0 20 | 9 21 | 2 37 | 24 0 | 0 21 | 23 4 | 0 33 | 17 41 | 4 28 | 12 20 | 12 45 | 27 47 | | n.a. |
| S 20 | 2 25 | 27 9 | 3 51 | 9 1 | 1 56 | 18 53 | 3 55 | 10 30 | 2 11 | 23 17 | 0 20 | 9 20 | 2 38 | 24 0 | 0 21 | 23 4 | 0 33 | 17 41 | 4 28 | 12 21 | 12 43 | 27 47 | | n.a. |
| M21 | 2 1 | 28 11 | 4 29 | 8 20 | 1 54 | 19 15 | 3 59 | 10 30 | 2 10 | 23 16 | 0 20 | 9 18 | 2 38 | 24 0 | 0 21 | 23 4 | 0 33 | 17 41 | 4 28 | 12 21 | 12 42 | 27 48 | | n.a. |
| T 22 | 1 37 | 27 53 | 4 56 | 7 38 | 1 52 | 19 37 | 4 3 | 10 28 | 2 8 | 23 15 | 0 21 | 9 17 | 2 38 | 24 0 | 0 21 | 23 4 | 0 33 | 17 41 | 4 28 | 12 20 | 12 41 | 27 49 | | n.a. |
| W23 | 1 13 | 26 18 | 5 10 | 6 55 | 1 48 | 19 58 | 4 7 | 10 27 | 2 6 | 23 15 | 0 21 | 9 16 | 2 38 | 24 0 | 0 21 | 23 4 | 0 33 | 17 41 | 4 28 | 12 19 | 12 40 | 27 49 | | n.a. |
| T 24 | 0 49 | 23 27 | 5 10 | 6 11 | 1 45 | 20 18 | 4 11 | 10 25 | 2 4 | 23 14 | 0 21 | 9 14 | 2 38 | 24 0 | 0 21 | 23 4 | 0 33 | 17 41 | 4 28 | 12 17 | 12 39 | 27 50 | | n.a. |
| F 25 | 0 25 | 19 28 | 4 55 | 5 27 | 1 41 | 20 38 | 4 15 | 10 24 | 2 2 | 23 13 | 0 21 | 9 13 | 2 38 | 24 0 | 0 21 | 23 4 | 0 33 | 17 41 | 4 28 | 12 15 | 12 38 | 27 51 | | n.a. |
| S 26 | 0 1 | 14 31 | 4 26 | 4 43 | 1 37 | 20 58 | 4 19 | 10 21 | 2 0 | 23 13 | 0 21 | 9 11 | 2 38 | 24 0 | 0 21 | 23 4 | 0 33 | 17 41 | 4 28 | 12 13 | 12 37 | 27 51 | | n.a. |
| S 27 | 0s23 | 8 48 | 3 42 | 3 58 | 1 32 | 21 17 | 4 23 | 10 19 | 1 58 | 23 12 | 0 21 | 9 10 | 2 38 | 24 0 | 0 21 | 23 4 | 0 33 | 17 41 | 4 28 | 12 12 | 12 36 | 27 52 | | n.a. |
| M28 | 0 47 | 2 34 | 2 45 | 3 13 | 1 27 | 21 35 | 4 26 | 10 16 | 1 55 | 23 11 | 0 22 | 9 8 | 2 39 | 24 0 | 0 21 | 23 4 | 0 33 | 17 41 | 4 28 | 12 10 | 12 35 | 27 53 | | n.a. |
| T 29 | 1 11 | 3n55 | 1 37 | 2 27 | 1 22 | 21 53 | 4 30 | 10 14 | 1 53 | 23 11 | 0 22 | 9 7 | 2 39 | 24 0 | 0 21 | 23 4 | 0 33 | 17 41 | 4 28 | 12 9 | 12 34 | 27 53 | | n.a. |
| W30 | 1s35 | 10n20 | 0s23 | 1n42 | 1n17 | 22s11 | 4s33 | 10n11 | 1s51 | 23n10 | 0n22 | 9n 5 | 2s39 | 24n 1 | 0n21 | 23n 4 | 0s33 | 17n41 | 4s28 | 12n 9 | 12n32 | 27s54 | | n.a. |

Julian Day Number = 1698655.5, Delta T = 03h06m43s
Ecliptic obliquity = 23°42'17, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°55'28, Lahiri = - 4°48'28 Julian Calendar 1 Sept. 63 BCE == Greg. Calendar 30 Aug. 063 BCE


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# ASTRODIENST EPHEMERIS for the year 63 BCE
# geocentric

## OCTOBER 63 BCE (-62) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 26 56 | 4♎57'43 | 11♉30 | 0♎22 | 20♏22 | 0°R37 | 15♋30 | 29°R50 | 3♋23 | 4♋36 | 9°R21 | 1♉34 | 2♉38 | 27♐47 | n.a. | T 1 |
| F 2 | 0 30 53 | 5°57'50 | 25°40 | 2° 2 | 21°11 | 0♉21 | 15°36 | 29♈45 | 3°24 | 4°37 | 9♊20 | 1°35 | 2°35 | 27°54 | n.a. | F 2 |
| S 3 | 0 34 50 | 6°57'59 | 9♊53 | 3°41 | 21°59 | 0° 4 | 15°43 | 29°41 | 3°24 | 4°37 | 9°20 | 1°37 | 2°32 | 28° 1 | n.a. | S 3 |
| S 4 | 0 38 46 | 7°58'10 | 24° 6 | 5°21 | 22°47 | 29♈46 | 15°49 | 29°37 | 3°25 | 4°37 | 9°19 | 1°38 | 2°29 | 28° 8 | n.a. | S 4 |
| M 5 | 0 42 43 | 8°58'24 | 8♋18 | 6°59 | 23°33 | 29°28 | 15°55 | 29°32 | 3°25 | 4°37 | 9°19 | 1°R39 | 2°26 | 28°14 | n.a. | M 5 |
| T 6 | 0 46 39 | 9°58'40 | 22°26 | 8°38 | 24°19 | 29° 9 | 16° 0 | 29°28 | 3°26 | 4°37 | 9°18 | 1°38 | 2°23 | 28°21 | n.a. | T 6 |
| W 7 | 0 50 36 | 10°58'58 | 6♌28 | 10°15 | 25° 4 | 28°49 | 16° 6 | 29°23 | 3°26 | 4°38 | 9°18 | 1°37 | 2°19 | 28°28 | n.a. | W 7 |
| T 8 | 0 54 32 | 11°59'18 | 20°23 | 11°53 | 25°48 | 28°29 | 16°11 | 29°19 | 3°26 | 4°38 | 9°17 | 1°34 | 2°16 | 28°34 | n.a. | T 8 |
| F 9 | 0 58 29 | 12°59'40 | 4♍ 7 | 13°30 | 26°30 | 28° 9 | 16°17 | 29°14 | 3°27 | 4°38 | 9°16 | 1°32 | 2°13 | 28°41 | n.a. | F 9 |
| S 10 | 1 2 25 | 14° 0'04 | 17°41 | 15° 7 | 27°12 | 27°48 | 16°22 | 29° 9 | 3°27 | 4°R38 | 9°16 | 1°29 | 2°10 | 28°48 | n.a. | S 10 |
| S 11 | 1 6 22 | 15° 0'30 | 1♎ 1 | 16°43 | 27°53 | 27°27 | 16°27 | 29° 5 | 3°27 | 4°38 | 9°15 | 1°27 | 2° 7 | 28°54 | n.a. | S 11 |
| M12 | 1 10 19 | 16° 0'58 | 14° 6 | 18°19 | 28°32 | 27° 5 | 16°32 | 29° 0 | 3°R27 | 4°38 | 9°15 | 1°25 | 2° 3 | 29° 1 | n.a. | M12 |
| T 13 | 1 14 15 | 17° 1'27 | 26°55 | 19°54 | 29°11 | 26°43 | 16°36 | 28°55 | 3°27 | 4°38 | 9°14 | 1°D24 | 2° 0 | 29° 8 | n.a. | T 13 |
| W14 | 1 18 12 | 18° 1'59 | 9♏29 | 21°29 | 29°48 | 26°21 | 16°41 | 28°50 | 3°27 | 4°38 | 9°13 | 1°25 | 1°57 | 29°15 | n.a. | W14 |
| T 15 | 1 22 8 | 19° 2'31 | 21°49 | 23° 4 | 0♐24 | 25°58 | 16°45 | 28°46 | 3°27 | 4°37 | 9°12 | 1°25 | 1°54 | 29°21 | n.a. | T 15 |
| F 16 | 1 26 5 | 20° 3'06 | 3♐56 | 24°39 | 0°59 | 25°36 | 16°49 | 28°41 | 3°26 | 4°37 | 9°12 | 1°26 | 1°51 | 29°28 | n.a. | F 16 |
| S 17 | 1 30 1 | 21° 3'42 | 15°54 | 26°13 | 1°32 | 25°13 | 16°53 | 28°36 | 3°26 | 4°37 | 9°11 | 1°27 | 1°48 | 29°35 | n.a. | S 17 |
| S 18 | 1 33 58 | 22° 4'19 | 27°46 | 27°47 | 2° 3 | 24°51 | 16°57 | 28°31 | 3°26 | 4°37 | 9°10 | 1°28 | 1°44 | 29°41 | n.a. | S 18 |
| M19 | 1 37 54 | 23° 4'57 | 9♑37 | 29°21 | 2°34 | 24°28 | 17° 1 | 28°26 | 3°26 | 4°37 | 9° 9 | 1°29 | 1°41 | 29°48 | n.a. | M19 |
| T 20 | 1 41 51 | 24° 5'37 | 21°31 | 0♏55 | 3° 2 | 24° 6 | 17° 4 | 28°21 | 3°25 | 4°36 | 9° 9 | 1°R29 | 1°38 | 29°55 | n.a. | T 20 |
| W21 | 1 45 48 | 25° 6'18 | 3♒32 | 2°28 | 3°29 | 23°44 | 17° 7 | 28°16 | 3°25 | 4°36 | 9° 8 | 1°29 | 1°35 | 0♑ 1 | n.a. | W21 |
| T 22 | 1 49 44 | 26° 7'01 | 15°47 | 4° 1 | 3°54 | 23°22 | 17°10 | 28°11 | 3°24 | 4°36 | 9° 7 | 1°29 | 1°32 | 0° 8 | n.a. | T 22 |
| F 23 | 1 53 41 | 27° 7'44 | 28°17 | 5°34 | 4°18 | 23° 0 | 17°13 | 28° 6 | 3°24 | 4°35 | 9° 6 | 1°28 | 1°29 | 0°15 | n.a. | F 23 |
| S 24 | 1 57 37 | 28° 8'29 | 11♓ 8 | 7° 6 | 4°40 | 22°38 | 17°16 | 28° 1 | 3°23 | 4°35 | 9° 5 | 1°28 | 1°25 | 0°22 | n.a. | S 24 |
| S 25 | 2 1 34 | 29° 9'15 | 24°22 | 8°39 | 4°59 | 22°17 | 17°18 | 27°56 | 3°22 | 4°34 | 9° 4 | 1°28 | 1°22 | 0°28 | n.a. | S 25 |
| M26 | 2 5 30 | 0♏10'02 | 7♈59 | 10°11 | 5°17 | 21°56 | 17°20 | 27°52 | 3°22 | 4°34 | 9° 4 | 1°27 | 1°19 | 0°35 | n.a. | M26 |
| T 27 | 2 9 27 | 1°10'50 | 21°57 | 11°43 | 5°33 | 21°35 | 17°23 | 27°47 | 3°21 | 4°33 | 9° 3 | 1°27 | 1°16 | 0°42 | n.a. | T 27 |
| W28 | 2 13 23 | 2°11'40 | 6♉15 | 13°15 | 5°46 | 21°15 | 17°24 | 27°42 | 3°20 | 4°33 | 9° 2 | 1°27 | 1°13 | 0°48 | n.a. | W28 |
| T 29 | 2 17 20 | 3°12'31 | 20°47 | 14°47 | 5°58 | 20°56 | 17°26 | 27°37 | 3°19 | 4°32 | 9° 1 | 1°27 | 1° 9 | 0°55 | n.a. | T 29 |
| F 30 | 2 21 16 | 4°13'23 | 5♊26 | 16°19 | 6° 7 | 20°37 | 17°28 | 27°32 | 3°18 | 4°31 | 9° 0 | 1°27 | 1° 6 | 1° 2 | n.a. | F 30 |
| S 31 | 2 25 13 | 5♏14'17 | 20♊ 7 | 17♏50 | 6♐14 | 20♈19 | 17♋29 | 27♈27 | 3♋17 | 4♋31 | 8♊59 | 1♉27 | 1♉ 3 | 1♑ 8 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 2s 0 | 16n19 | 0n54 | 0n56 | 1n11 | 22s28 | 4s36 | 10n 7 | 1s48 | 23n10 | 0n22 | 9n 4 | 2s39 | 24n 1 | 0n21 | 23n 4 | 0s33 | 17n40 | 4s28 | 12n 9 | 12n31 | 27s55 | | | n.a. |
| F 2 | 2 24 | 21 28 | 2 9 | 0 11 | 1 5 | 22 44 | 4 39 | 10 4 | 1 46 | 23 9 | 0 22 | 9 2 | 2 39 | 24 1 | 0 21 | 23 4 | 0 33 | 17 40 | 4 29 | 12 9 | 12 30 | 27 55 | | | n.a. |
| S 3 | 2 48 | 25 24 | 3 15 | 0s35 | 0 59 | 23 0 | 4 42 | 10 0 | 1 44 | 23 8 | 0 22 | 9 0 | 2 39 | 24 1 | 0 21 | 23 4 | 0 33 | 17 40 | 4 29 | 12 10 | 12 29 | 27 56 | | | n.a. |
| S 4 | 3 12 | 27 44 | 4 10 | 1 20 | 0 53 | 23 15 | 4 45 | 9 56 | 1 41 | 23 8 | 0 23 | 8 59 | 2 39 | 24 1 | 0 21 | 23 4 | 0 33 | 17 40 | 4 29 | 12 10 | 12 28 | 27 57 | | | n.a. |
| M 5 | 3 36 | 28 15 | 4 49 | 2 5 | 0 47 | 23 30 | 4 47 | 9 52 | 1 38 | 23 7 | 0 23 | 8 57 | 2 39 | 24 1 | 0 21 | 23 4 | 0 33 | 17 40 | 4 29 | 12 11 | 12 27 | 27 57 | | | n.a. |
| T 6 | 4 0 | 26 55 | 5 11 | 2 50 | 0 41 | 23 44 | 4 49 | 9 48 | 1 36 | 23 7 | 0 23 | 8 55 | 2 39 | 24 1 | 0 21 | 23 4 | 0 33 | 17 40 | 4 29 | 12 10 | 12 26 | 27 58 | | | n.a. |
| W 7 | 4 24 | 23 55 | 5 14 | 3 35 | 0 34 | 23 57 | 4 52 | 9 44 | 1 33 | 23 6 | 0 23 | 8 54 | 2 39 | 24 1 | 0 21 | 23 4 | 0 33 | 17 40 | 4 29 | 12 10 | 12 25 | 27 58 | | | n.a. |
| T 8 | 4 47 | 19 33 | 4 58 | 4 19 | 0 28 | 24 10 | 4 54 | 9 39 | 1 30 | 23 6 | 0 23 | 8 52 | 2 39 | 24 1 | 0 21 | 23 4 | 0 33 | 17 40 | 4 29 | 12 9 | 12 24 | 27 59 | | | n.a. |
| F 9 | 5 11 | 14 13 | 4 26 | 5 4 | 0 21 | 24 22 | 4 55 | 9 34 | 1 27 | 23 5 | 0 24 | 8 50 | 2 39 | 24 1 | 0 21 | 23 4 | 0 33 | 17 40 | 4 29 | 12 8 | 12 23 | 27 59 | | | n.a. |
| S 10 | 5 35 | 8 16 | 3 38 | 5 47 | 0 15 | 24 34 | 4 57 | 9 29 | 1 25 | 23 5 | 0 24 | 8 49 | 2 39 | 24 1 | 0 21 | 23 4 | 0 33 | 17 39 | 4 29 | 12 7 | 12 21 | 28 0 | | | n.a. |
| S 11 | 5 59 | 2 2 | 2 40 | 6 31 | 0 8 | 24 45 | 4 58 | 9 25 | 1 22 | 23 5 | 0 24 | 8 47 | 2 39 | 24 1 | 0 21 | 23 4 | 0 33 | 17 39 | 4 29 | 12 6 | 12 20 | 28 1 | | | n.a. |
| M12 | 6 22 | 4s10 | 1 34 | 7 14 | 0 2 | 24 55 | 5 0 | 9 19 | 1 19 | 23 4 | 0 24 | 8 45 | 2 39 | 24 1 | 0 21 | 23 4 | 0 33 | 17 39 | 4 29 | 12 6 | 12 19 | 28 1 | | | n.a. |
| T 13 | 6 46 | 10 6 | 0 25 | 7 57 | 0s 5 | 25 5 | 5 1 | 9 14 | 1 16 | 23 4 | 0 24 | 8 44 | 2 40 | 24 1 | 0 21 | 23 4 | 0 33 | 17 39 | 4 29 | 12 6 | 12 18 | 28 2 | | | n.a. |
| W14 | 7 9 | 15 31 | 0s45 | 8 39 | 0 12 | 25 14 | 5 1 | 9 9 | 1 13 | 23 3 | 0 25 | 8 42 | 2 40 | 24 1 | 0 21 | 23 4 | 0 33 | 17 39 | 4 29 | 12 6 | 12 17 | 28 2 | | | n.a. |
| T 15 | 7 32 | 20 12 | 1 51 | 9 21 | 0 18 | 25 22 | 5 2 | 9 4 | 1 10 | 23 3 | 0 25 | 8 40 | 2 40 | 24 1 | 0 21 | 23 4 | 0 33 | 17 39 | 4 29 | 12 6 | 12 16 | 28 3 | | | n.a. |
| F 16 | 7 55 | 23 58 | 2 51 | 10 2 | 0 25 | 25 30 | 5 2 | 8 58 | 1 7 | 23 3 | 0 25 | 8 38 | 2 40 | 24 1 | 0 21 | 23 4 | 0 33 | 17 39 | 4 29 | 12 6 | 12 15 | 28 3 | | | n.a. |
| S 17 | 8 18 | 26 38 | 3 42 | 10 43 | 0 31 | 25 37 | 5 2 | 8 53 | 1 4 | 23 2 | 0 25 | 8 37 | 2 40 | 24 1 | 0 21 | 23 4 | 0 33 | 17 38 | 4 29 | 12 7 | 12 14 | 28 4 | | | n.a. |
| S 18 | 8 41 | 28 5 | 4 24 | 11 23 | 0 38 | 25 43 | 5 2 | 8 47 | 1 0 | 23 2 | 0 25 | 8 35 | 2 40 | 24 1 | 0 21 | 23 4 | 0 33 | 17 38 | 4 29 | 12 7 | 12 13 | 28 4 | | | n.a. |
| M19 | 9 4 | 28 15 | 4 54 | 12 3 | 0 44 | 25 49 | 5 1 | 8 42 | 0 57 | 23 2 | 0 25 | 8 33 | 2 40 | 24 1 | 0 21 | 23 4 | 0 33 | 17 38 | 4 29 | 12 7 | 12 11 | 28 5 | | | n.a. |
| T 20 | 9 27 | 27 6 | 5 12 | 12 42 | 0 50 | 25 54 | 5 0 | 8 37 | 0 54 | 23 2 | 0 26 | 8 32 | 2 40 | 24 1 | 0 21 | 23 4 | 0 33 | 17 38 | 4 29 | 12 7 | 12 10 | 28 5 | | | n.a. |
| W21 | 9 49 | 24 42 | 5 17 | 13 21 | 0 56 | 25 58 | 4 59 | 8 31 | 0 51 | 23 1 | 0 26 | 8 30 | 2 40 | 24 1 | 0 21 | 23 4 | 0 33 | 17 38 | 4 29 | 12 7 | 12 9 | 28 6 | | | n.a. |
| T 22 | 10 12 | 21 10 | 5 7 | 13 58 | 1 2 | 26 1 | 4 57 | 8 26 | 0 48 | 23 1 | 0 26 | 8 28 | 2 39 | 24 1 | 0 21 | 23 4 | 0 33 | 17 38 | 4 29 | 12 7 | 12 8 | 28 6 | | | n.a. |
| F 23 | 10 34 | 16 37 | 4 43 | 14 36 | 1 8 | 26 4 | 4 55 | 8 21 | 0 45 | 23 1 | 0 26 | 8 26 | 2 39 | 24 1 | 0 21 | 23 4 | 0 33 | 17 38 | 4 29 | 12 7 | 12 7 | 28 6 | | | n.a. |
| S 24 | 10 56 | 11 14 | 4 4 | 15 12 | 1 14 | 26 6 | 4 52 | 8 15 | 0 42 | 23 1 | 0 26 | 8 25 | 2 39 | 24 1 | 0 22 | 23 4 | 0 33 | 17 37 | 4 29 | 12 7 | 12 6 | 28 7 | | | n.a. |
| S 25 | 11 18 | 5 11 | 3 12 | 15 48 | 1 20 | 26 7 | 4 50 | 8 10 | 0 39 | 23 1 | 0 27 | 8 23 | 2 39 | 24 1 | 0 22 | 23 4 | 0 33 | 17 37 | 4 29 | 12 7 | 12 5 | 28 7 | | | n.a. |
| M26 | 11 39 | 1n16 | 2 7 | 16 23 | 1 25 | 26 7 | 4 46 | 8 5 | 0 35 | 23 1 | 0 27 | 8 21 | 2 39 | 24 1 | 0 22 | 23 4 | 0 33 | 17 37 | 4 29 | 12 7 | 12 4 | 28 8 | | | n.a. |
| T 27 | 12 1 | 7 50 | 0 53 | 16 57 | 1 31 | 26 6 | 4 43 | 8 1 | 0 32 | 23 1 | 0 27 | 8 19 | 2 39 | 24 1 | 0 22 | 23 4 | 0 33 | 17 37 | 4 29 | 12 7 | 12 3 | 28 8 | | | n.a. |
| W28 | 12 22 | 14 10 | 0n27 | 17 31 | 1 36 | 26 5 | 4 39 | 7 56 | 0 29 | 23 1 | 0 27 | 8 18 | 2 39 | 24 1 | 0 22 | 23 4 | 0 33 | 17 37 | 4 29 | 12 7 | 12 1 | 28 9 | | | n.a. |
| T 29 | 12 43 | 19 50 | 1 45 | 18 3 | 1 41 | 26 2 | 4 34 | 7 51 | 0 26 | 23 1 | 0 28 | 8 16 | 2 39 | 24 1 | 0 22 | 23 4 | 0 33 | 17 37 | 4 29 | 12 7 | 12 0 | 28 9 | | | n.a. |
| F 30 | 13 4 | 24 21 | 2 58 | 18 35 | 1 46 | 25 59 | 4 29 | 7 47 | 0 23 | 23 1 | 0 28 | 8 14 | 2 39 | 24 1 | 0 22 | 23 4 | 0 33 | 17 37 | 4 29 | 12 7 | 11 59 | 28 9 | | | n.a. |
| S 31 | 13s25 | 27n18 | 3n58 | 19s 6 | 1s50 | 25s55 | 4s24 | 7n43 | 0s20 | 23n 1 | 0n28 | 8n13 | 2s39 | 24n 2 | 0n22 | 23n 4 | 0s34 | 17n36 | 4s29 | 12n 6 | 11n58 | 28s10 | | | n.a. |

Julian Day Number = 1698685.5, Delta T = 03h06m42s
Ecliptic obliquity = 23°42'18, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°55'24, Lahiri = - 4°48'23 Julian Calendar 1 Oct. 63 BCE == Greg. Calendar 29 Sept. 063 BCE

The year -62 astronomical counting style corresponds to year 063 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 63 BCE
# geocentric

## NOVEMBER 63 BCE (-62) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 29 10 | 6♏15'12 | 4♋42 | 19♏21 | 6♐19 | 20°R 1 | 17♋30 | 27°R22 | 3°R16 | 4°R30 | 8°R58 | 1°R26 | 1♉ 0 | 1♑15 | n.a. | S 1 |
| M 2 | 2 33 6 | 7°16'09 | 19° 8 | 20°52 | 6°R21 | 19♈44 | 17°31 | 27♈17 | 3♋15 | 4♋29 | 8♊57 | 1♉26 | 0°57 | 1°22 | n.a. | M 2 |
| T 3 | 2 37 3 | 8°17'07 | 3♌19 | 22°22 | 6°21 | 19°27 | 17°32 | 27°13 | 3°14 | 4°28 | 8°56 | 1°D26 | 0°54 | 1°29 | n.a. | T 3 |
| W 4 | 2 40 59 | 9°18'07 | 17°15 | 23°53 | 6°19 | 19°11 | 17°32 | 27° 8 | 3°13 | 4°28 | 8°55 | 1°26 | 0°50 | 1°35 | n.a. | W 4 |
| T 5 | 2 44 56 | 10°19'08 | 0♍55 | 25°23 | 6°14 | 18°56 | 17°33 | 27° 3 | 3°12 | 4°27 | 8°54 | 1°26 | 0°47 | 1°42 | n.a. | T 5 |
| F 6 | 2 48 52 | 11°20'10 | 14°19 | 26°52 | 6° 6 | 18°41 | 17°R33 | 26°58 | 3°10 | 4°26 | 8°53 | 1°27 | 0°44 | 1°49 | n.a. | F 6 |
| S 7 | 2 52 49 | 12°21'13 | 27°28 | 28°21 | 5°56 | 18°28 | 17°33 | 26°54 | 3° 9 | 4°25 | 8°52 | 1°28 | 0°41 | 1°55 | n.a. | S 7 |
| S 8 | 2 56 46 | 13°22'17 | 10♎23 | 29°50 | 5°44 | 18°15 | 17°33 | 26°49 | 3° 8 | 4°24 | 8°50 | 1°29 | 0°38 | 2° 2 | n.a. | S 8 |
| M 9 | 3 0 42 | 14°23'23 | 23° 5 | 1♐18 | 5°29 | 18° 3 | 17°32 | 26°44 | 3° 6 | 4°23 | 8°49 | 1°30 | 0°34 | 2° 9 | n.a. | M 9 |
| T 10 | 3 4 39 | 15°24'30 | 5♏36 | 2°45 | 5°12 | 17°51 | 17°32 | 26°40 | 3° 5 | 4°22 | 8°48 | 1°R30 | 0°31 | 2°16 | n.a. | T 10 |
| W11 | 3 8 35 | 16°25'37 | 17°55 | 4°11 | 4°53 | 17°41 | 17°31 | 26°35 | 3° 3 | 4°21 | 8°47 | 1°29 | 0°28 | 2°22 | n.a. | W11 |
| T 12 | 3 12 32 | 17°26'45 | 0♐ 5 | 5°36 | 4°31 | 17°31 | 17°30 | 26°31 | 3° 2 | 4°20 | 8°46 | 1°28 | 0°25 | 2°29 | n.a. | T 12 |
| F 13 | 3 16 28 | 18°27'55 | 12° 7 | 6°59 | 4° 7 | 17°22 | 17°28 | 26°26 | 3° 0 | 4°19 | 8°45 | 1°25 | 0°22 | 2°36 | n.a. | F 13 |
| S 14 | 3 20 25 | 19°29'04 | 24° 3 | 8°22 | 3°41 | 17°14 | 17°27 | 26°22 | 2°59 | 4°18 | 8°44 | 1°22 | 0°19 | 2°42 | n.a. | S 14 |
| S 15 | 3 24 21 | 20°30'15 | 5♑54 | 9°42 | 3°13 | 17° 7 | 17°25 | 26°18 | 2°57 | 4°17 | 8°43 | 1°19 | 0°15 | 2°49 | n.a. | S 15 |
| M16 | 3 28 18 | 21°31'26 | 17°44 | 11° 0 | 2°43 | 17° 0 | 17°24 | 26°14 | 2°55 | 4°16 | 8°41 | 1°16 | 0°12 | 2°56 | n.a. | M16 |
| T 17 | 3 32 15 | 22°32'37 | 29°37 | 12°16 | 2°12 | 16°55 | 17°22 | 26° 9 | 2°53 | 4°15 | 8°40 | 1°13 | 0° 9 | 3° 3 | n.a. | T 17 |
| W18 | 3 36 11 | 23°33'48 | 11♒36 | 13°30 | 1°39 | 16°50 | 17°19 | 26° 5 | 2°52 | 4°14 | 8°39 | 1°12 | 0° 6 | 3° 9 | n.a. | W18 |
| T 19 | 3 40 8 | 24°35'00 | 23°46 | 14°39 | 1° 5 | 16°46 | 17°17 | 26° 1 | 2°50 | 4°12 | 8°38 | 1°D11 | 0° 3 | 3°16 | n.a. | T 19 |
| F 20 | 3 44 4 | 25°36'12 | 6♓11 | 15°45 | 0°30 | 16°43 | 17°14 | 25°57 | 2°48 | 4°11 | 8°37 | 1°11 | 29♈59 | 3°23 | n.a. | F 20 |
| S 21 | 3 48 1 | 26°37'24 | 18°56 | 16°47 | 29♏54 | 16°41 | 17°11 | 25°53 | 2°46 | 4°10 | 8°36 | 1°13 | 29°56 | 3°29 | n.a. | S 21 |
| S 22 | 3 51 57 | 27°38'36 | 2♈ 5 | 17°43 | 29°18 | 16°39 | 17° 9 | 25°50 | 2°44 | 4° 9 | 8°34 | 1°14 | 29°53 | 3°36 | n.a. | S 22 |
| M23 | 3 55 54 | 28°39'49 | 15°41 | 18°34 | 28°41 | 16°D38 | 17° 5 | 25°46 | 2°42 | 4° 7 | 8°33 | 1°16 | 29°50 | 3°43 | n.a. | M23 |
| T 24 | 3 59 50 | 29°41'01 | 29°44 | 19°18 | 28° 4 | 16°38 | 17° 2 | 25°42 | 2°40 | 4° 6 | 8°32 | 1°R17 | 29°47 | 3°49 | n.a. | T 24 |
| W25 | 4 3 47 | 0♐42'14 | 14♉12 | 19°54 | 27°28 | 16°39 | 16°58 | 25°39 | 2°38 | 4° 5 | 8°31 | 1°16 | 29°44 | 3°56 | n.a. | W25 |
| T 26 | 4 7 44 | 1°43'27 | 29° 2 | 20°22 | 26°52 | 16°41 | 16°55 | 25°35 | 2°36 | 4° 3 | 8°30 | 1°14 | 29°40 | 4° 3 | n.a. | T 26 |
| F 27 | 4 11 40 | 2°44'41 | 14♊ 5 | 20°40 | 26°17 | 16°43 | 16°51 | 25°32 | 2°34 | 4° 2 | 8°28 | 1°10 | 29°37 | 4°10 | n.a. | F 27 |
| S 28 | 4 15 37 | 3°45'54 | 29°13 | 20°R49 | 25°43 | 16°47 | 16°47 | 25°28 | 2°31 | 4° 1 | 8°27 | 1° 6 | 29°34 | 4°16 | n.a. | S 28 |
| S 29 | 4 19 33 | 4°47'08 | 14♋16 | 20°46 | 25°10 | 16°51 | 16°43 | 25°25 | 2°29 | 3°59 | 8°26 | 1° 0 | 29°31 | 4°23 | n.a. | S 29 |
| M30 | 4 23 30 | 5♐48'23 | 29♋ 4 | 20♐32 | 24♏39 | 16♈55 | 16♋38 | 25♈22 | 2♋27 | 3♋58 | 8♊25 | 0♉56 | 29♈28 | 4♑30 | n.a. | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 13s45 | 28n20 | 4n43 | 19s35 | 1s54 | 25s50 | 4s18 | 7n39 | 0s17 | 23n 1 | 0n28 | 8n11 | 2s39 | 24n 2 | 0n22 | 23n 4 | 0s34 | 17n36 | 4s29 | 12n 6 | 11n57 | 28s10 | | n.a. |
| M 2 | 14 5 | 27 26 | 5 10 | 20 4 | 1 58 | 25 44 | 4 11 | 7 35 | 0 14 | 23 1 | 0 28 | 8 9 | 2 39 | 24 2 | 0 22 | 23 4 | 0 34 | 17 36 | 4 29 | 12 6 | 11 56 | 28 11 | | n.a. |
| T 3 | 14 25 | 24 45 | 5 17 | 20 32 | 2 2 | 25 37 | 4 4 | 7 31 | 0 11 | 23 1 | 0 29 | 8 8 | 2 39 | 24 2 | 0 22 | 23 4 | 0 34 | 17 36 | 4 29 | 12 6 | 11 55 | 28 11 | | n.a. |
| W 4 | 14 45 | 20 40 | 5 5 | 20 59 | 2 6 | 25 29 | 3 57 | 7 28 | 0 8 | 23 1 | 0 29 | 8 6 | 2 38 | 24 2 | 0 22 | 23 4 | 0 34 | 17 36 | 4 29 | 12 6 | 11 54 | 28 11 | | n.a. |
| T 5 | 15 5 | 15 34 | 4 36 | 21 24 | 2 9 | 25 20 | 3 48 | 7 25 | 0 6 | 23 1 | 0 29 | 8 4 | 2 38 | 24 2 | 0 22 | 23 4 | 0 34 | 17 36 | 4 29 | 12 6 | 11 52 | 28 12 | | n.a. |
| F 6 | 15 24 | 9 48 | 3 53 | 21 48 | 2 12 | 25 10 | 3 40 | 7 22 | 0 3 | 23 1 | 0 29 | 8 3 | 2 38 | 24 2 | 0 22 | 23 4 | 0 34 | 17 35 | 4 29 | 12 6 | 11 51 | 28 12 | | n.a. |
| S 7 | 15 43 | 3 43 | 2 58 | 22 11 | 2 14 | 24 59 | 3 30 | 7 19 | 0 0 | 23 2 | 0 29 | 8 1 | 2 38 | 24 2 | 0 22 | 23 4 | 0 34 | 17 35 | 4 29 | 12 7 | 11 50 | 28 12 | | n.a. |
| S 8 | 16 2 | 2s25 | 1 54 | 22 33 | 2 16 | 24 47 | 3 21 | 7 16 | 0n 3 | 23 2 | 0 30 | 8 0 | 2 38 | 24 2 | 0 22 | 23 4 | 0 34 | 17 35 | 4 29 | 12 7 | 11 49 | 28 13 | | n.a. |
| M 9 | 16 20 | 8 21 | 0 46 | 22 54 | 2 18 | 24 34 | 3 10 | 7 14 | 0 5 | 23 2 | 0 30 | 7 58 | 2 38 | 24 2 | 0 22 | 23 4 | 0 34 | 17 35 | 4 29 | 12 7 | 11 48 | 28 13 | | n.a. |
| T 10 | 16 38 | 13 53 | 0s23 | 23 12 | 2 19 | 24 20 | 2 59 | 7 12 | 0 8 | 23 2 | 0 30 | 7 57 | 2 38 | 24 2 | 0 22 | 23 4 | 0 34 | 17 35 | 4 29 | 12 7 | 11 47 | 28 13 | | n.a. |
| W11 | 16 56 | 18 48 | 1 30 | 23 30 | 2 20 | 24 6 | 2 48 | 7 10 | 0 10 | 23 3 | 0 30 | 7 55 | 2 38 | 24 2 | 0 22 | 23 4 | 0 34 | 17 35 | 4 29 | 12 7 | 11 46 | 28 13 | | n.a. |
| T 12 | 17 14 | 22 52 | 2 31 | 23 46 | 2 20 | 23 50 | 2 36 | 7 9 | 0 13 | 23 3 | 0 30 | 7 54 | 2 37 | 24 2 | 0 22 | 23 4 | 0 34 | 17 35 | 4 29 | 12 7 | 11 45 | 28 14 | | n.a. |
| F 13 | 17 31 | 25 54 | 3 26 | 24 0 | 2 19 | 23 33 | 2 23 | 7 8 | 0 15 | 23 3 | 0 31 | 7 52 | 2 37 | 24 2 | 0 22 | 23 4 | 0 34 | 17 34 | 4 29 | 12 6 | 11 43 | 28 14 | | n.a. |
| S 14 | 17 48 | 27 45 | 4 11 | 24 13 | 2 18 | 23 15 | 2 10 | 7 7 | 0 18 | 23 4 | 0 31 | 7 51 | 2 37 | 24 2 | 0 22 | 23 4 | 0 34 | 17 34 | 4 29 | 12 5 | 11 42 | 28 14 | | n.a. |
| S 15 | 18 4 | 28 18 | 4 44 | 24 24 | 2 16 | 22 56 | 1 56 | 7 6 | 0 20 | 23 4 | 0 31 | 7 49 | 2 37 | 24 2 | 0 22 | 23 5 | 0 34 | 17 34 | 4 29 | 12 4 | 11 41 | 28 15 | | n.a. |
| M16 | 18 21 | 27 34 | 5 6 | 24 33 | 2 14 | 22 36 | 1 42 | 7 6 | 0 22 | 23 5 | 0 31 | 7 48 | 2 37 | 24 2 | 0 22 | 23 5 | 0 34 | 17 34 | 4 29 | 12 3 | 11 40 | 28 15 | | n.a. |
| T 17 | 18 37 | 25 34 | 5 14 | 24 40 | 2 11 | 22 16 | 1 28 | 7 6 | 0 25 | 23 5 | 0 32 | 7 47 | 2 36 | 24 2 | 0 22 | 23 5 | 0 34 | 17 34 | 4 29 | 12 2 | 11 39 | 28 15 | | n.a. |
| W18 | 18 52 | 22 26 | 5 9 | 24 46 | 2 7 | 21 55 | 1 13 | 7 6 | 0 27 | 23 6 | 0 32 | 7 45 | 2 36 | 24 3 | 0 22 | 23 5 | 0 34 | 17 34 | 4 29 | 12 1 | 11 38 | 28 15 | | n.a. |
| T 19 | 19 8 | 18 18 | 4 51 | 24 49 | 2 2 | 21 33 | 0 58 | 7 6 | 0 29 | 23 6 | 0 32 | 7 44 | 2 36 | 24 3 | 0 22 | 23 5 | 0 34 | 17 33 | 4 29 | 12 1 | 11 37 | 28 16 | | n.a. |
| F 20 | 19 22 | 13 20 | 4 18 | 24 51 | 1 56 | 21 11 | 0 43 | 7 7 | 0 31 | 23 7 | 0 32 | 7 43 | 2 36 | 24 3 | 0 22 | 23 5 | 0 34 | 17 33 | 4 29 | 12 1 | 11 36 | 28 16 | | n.a. |
| S 21 | 19 37 | 7 40 | 3 32 | 24 51 | 1 49 | 20 48 | 0 27 | 7 8 | 0 33 | 23 7 | 0 32 | 7 42 | 2 36 | 24 3 | 0 22 | 23 5 | 0 34 | 17 33 | 4 29 | 12 1 | 11 34 | 28 16 | | n.a. |
| S 22 | 19 51 | 1 30 | 2 33 | 24 48 | 1 41 | 20 25 | 0 12 | 7 9 | 0 35 | 23 8 | 0 33 | 7 41 | 2 35 | 24 3 | 0 22 | 23 5 | 0 34 | 17 33 | 4 29 | 12 2 | 11 33 | 28 16 | | n.a. |
| M23 | 20 5 | 4n56 | 1 25 | 24 43 | 1 31 | 20 2 | 0n 4 | 7 11 | 0 37 | 23 8 | 0 33 | 7 39 | 2 35 | 24 3 | 0 22 | 23 5 | 0 34 | 17 33 | 4 29 | 12 3 | 11 32 | 28 16 | | n.a. |
| T 24 | 20 18 | 11 22 | 0 8 | 24 37 | 1 21 | 19 38 | 0 19 | 7 13 | 0 39 | 23 9 | 0 33 | 7 38 | 2 35 | 24 3 | 0 22 | 23 5 | 0 34 | 17 33 | 4 29 | 12 3 | 11 31 | 28 17 | | n.a. |
| W25 | 20 31 | 17 24 | 1n10 | 24 28 | 1 9 | 19 15 | 0 35 | 7 15 | 0 41 | 23 10 | 0 33 | 7 37 | 2 35 | 24 3 | 0 22 | 23 5 | 0 34 | 17 33 | 4 29 | 12 3 | 11 30 | 28 17 | | n.a. |
| T 26 | 20 44 | 22 32 | 2 26 | 24 17 | 0 56 | 18 52 | 0 50 | 7 17 | 0 43 | 23 10 | 0 33 | 7 36 | 2 35 | 24 3 | 0 22 | 23 5 | 0 34 | 17 32 | 4 29 | 12 2 | 11 29 | 28 17 | | n.a. |
| F 27 | 20 56 | 26 16 | 3 33 | 24 4 | 0 42 | 18 29 | 1 5 | 7 19 | 0 44 | 23 11 | 0 34 | 7 35 | 2 34 | 24 3 | 0 22 | 23 5 | 0 34 | 17 32 | 4 29 | 12 1 | 11 28 | 28 17 | | n.a. |
| S 28 | 21 8 | 28 7 | 4 25 | 23 49 | 0 26 | 18 6 | 1 20 | 7 22 | 0 46 | 23 12 | 0 34 | 7 34 | 2 34 | 24 3 | 0 22 | 23 5 | 0 34 | 17 32 | 4 29 | 11 59 | 11 27 | 28 17 | | n.a. |
| S 29 | 21 20 | 27 52 | 4 58 | 23 32 | 0 9 | 17 44 | 1 35 | 7 25 | 0 48 | 23 13 | 0 34 | 7 33 | 2 34 | 24 3 | 0 22 | 23 5 | 0 34 | 17 32 | 4 29 | 11 57 | 11 25 | 28 17 | | n.a. |
| M30 | 21s31 | 25n38 | 5n11 | 23s13 | 0n 9 | 17s23 | 1n49 | 7n29 | 0n49 | 23n13 | 0n34 | 7n32 | 2s34 | 24n 3 | 0n22 | 23n 5 | 0s34 | 17n32 | 4s29 | 11n55 | 11n24 | 28s17 | | n.a. |

Julian Day Number = 1698716.5, Delta T = 03h06m41s
Ecliptic obliquity = 23°42'17, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°55'20, Lahiri = - 4°48'19 Julian Calendar 1 Nov. 63 BCE == Greg. Calendar 30 Oct. 063 BCE

The year -62 astronomical counting style corresponds to year 063 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 63 BCE
# geocentric

## DECEMBER 63 BCE (-62) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 4 27 26 | 6♐49'37 | 13♌32 | 20°R 6 | 24°R 9 | 17♈ 0 | 16°R33 | 25°R19 | 2°R25 | 3°R56 | 8°R23 | 0°R52 | 29♈25 | 4♑36 | n.a. | T 1 |
| W 2 | 4 31 23 | 7°50'52 | 27°35 | 19♐28 | 23♏41 | 17° 7 | 16♋29 | 25♈16 | 2♋22 | 3♋55 | 8♊22 | 0♉50 | 29°21 | 4°43 | n.a. | W 2 |
| T 3 | 4 35 20 | 8°52'07 | 11♍14 | 18°39 | 23°16 | 17°13 | 16°24 | 25°13 | 2°20 | 3°53 | 8°21 | 0°D49 | 29°18 | 4°50 | n.a. | T 3 |
| F 4 | 4 39 16 | 9°53'22 | 24°30 | 17°40 | 22°52 | 17°21 | 16°19 | 25°10 | 2°18 | 3°52 | 8°20 | 0°50 | 29°15 | 4°57 | n.a. | F 4 |
| S 5 | 4 43 13 | 10°54'38 | 7♎26 | 16°32 | 22°30 | 17°29 | 16°13 | 25° 8 | 2°15 | 3°50 | 8°19 | 0°52 | 29°12 | 5° 3 | n.a. | S 5 |
| S 6 | 4 47 9 | 11°55'53 | 20° 4 | 15°17 | 22°11 | 17°37 | 16° 8 | 25° 5 | 2°13 | 3°49 | 8°17 | 0°53 | 29° 9 | 5°10 | n.a. | S 6 |
| M 7 | 4 51 6 | 12°57'09 | 2♏29 | 13°58 | 21°54 | 17°47 | 16° 2 | 25° 2 | 2°11 | 3°47 | 8°16 | 0°R54 | 29° 6 | 5°17 | n.a. | M 7 |
| T 8 | 4 55 2 | 13°58'25 | 14°43 | 12°38 | 21°40 | 17°57 | 15°57 | 25° 0 | 2° 8 | 3°46 | 8°15 | 0°53 | 29° 2 | 5°23 | n.a. | T 8 |
| W 9 | 4 58 59 | 14°59'40 | 26°49 | 11°18 | 21°28 | 18° 7 | 15°51 | 24°58 | 2° 6 | 3°44 | 8°14 | 0°49 | 28°59 | 5°30 | n.a. | W 9 |
| T 10 | 5 2 55 | 16° 0'56 | 8♐49 | 10° 1 | 21°19 | 18°18 | 15°45 | 24°56 | 2° 3 | 3°43 | 8°12 | 0°44 | 28°56 | 5°37 | n.a. | T 10 |
| F 11 | 5 6 52 | 17° 2'11 | 20°44 | 8°50 | 21°12 | 18°30 | 15°39 | 24°54 | 2° 1 | 3°41 | 8°11 | 0°36 | 28°53 | 5°44 | n.a. | F 11 |
| S 12 | 5 10 49 | 18° 3'26 | 2♑37 | 7°47 | 21° 8 | 18°43 | 15°32 | 24°52 | 1°58 | 3°39 | 8°10 | 0°27 | 28°50 | 5°50 | n.a. | S 12 |
| S 13 | 5 14 45 | 19° 4'40 | 14°28 | 6°51 | 21°D 6 | 18°56 | 15°26 | 24°50 | 1°56 | 3°38 | 8° 9 | 0°17 | 28°46 | 5°57 | n.a. | S 13 |
| M14 | 5 18 42 | 20° 5'54 | 26°19 | 6° 6 | 21° 6 | 19° 9 | 15°19 | 24°48 | 1°53 | 3°36 | 8° 8 | 0° 7 | 28°43 | 6° 4 | n.a. | M14 |
| T 15 | 5 22 38 | 21° 7'07 | 8♒13 | 5°29 | 21° 9 | 19°23 | 15°13 | 24°46 | 1°51 | 3°34 | 8° 6 | 29♈58 | 28°40 | 6°10 | n.a. | T 15 |
| W16 | 5 26 35 | 22° 8'20 | 20°13 | 5° 3 | 21°14 | 19°38 | 15° 6 | 24°45 | 1°48 | 3°33 | 8° 5 | 29°51 | 28°37 | 6°17 | n.a. | W16 |
| T 17 | 5 30 31 | 23° 9'31 | 2♓21 | 4°46 | 21°22 | 19°53 | 14°59 | 24°43 | 1°46 | 3°31 | 8° 4 | 29°46 | 28°34 | 6°24 | n.a. | T 17 |
| F 18 | 5 34 28 | 24°10'42 | 14°42 | 4°D39 | 21°32 | 20° 8 | 14°52 | 24°42 | 1°43 | 3°29 | 8° 3 | 29°43 | 28°31 | 6°31 | n.a. | F 18 |
| S 19 | 5 38 24 | 25°11'52 | 27°20 | 4°40 | 21°44 | 20°24 | 14°45 | 24°41 | 1°41 | 3°28 | 8° 2 | 29°D43 | 28°27 | 6°37 | n.a. | S 19 |
| S 20 | 5 42 21 | 26°13'01 | 10♈20 | 4°49 | 21°58 | 20°41 | 14°38 | 24°40 | 1°38 | 3°26 | 8° 1 | 29°44 | 28°24 | 6°44 | n.a. | S 20 |
| M21 | 5 46 18 | 27°14'08 | 23°45 | 5° 5 | 22°14 | 20°58 | 14°30 | 24°39 | 1°35 | 3°24 | 7°59 | 29°R44 | 28°21 | 6°51 | n.a. | M21 |
| T 22 | 5 50 14 | 28°15'15 | 7♉39 | 5°28 | 22°33 | 21°16 | 14°23 | 24°38 | 1°33 | 3°23 | 7°58 | 29°44 | 28°18 | 6°57 | n.a. | T 22 |
| W23 | 5 54 11 | 29°16'21 | 22° 2 | 5°58 | 22°53 | 21°34 | 14°16 | 24°37 | 1°30 | 3°21 | 7°57 | 29°42 | 28°15 | 7° 4 | n.a. | W23 |
| T 24 | 5 58 7 | 0♑17'26 | 6♊52 | 6°33 | 23°15 | 21°52 | 14° 8 | 24°36 | 1°28 | 3°19 | 7°56 | 29°38 | 28°12 | 7°11 | n.a. | T 24 |
| F 25 | 6 2 4 | 1°18'30 | 22° 2 | 7°13 | 23°39 | 22°11 | 14° 0 | 24°36 | 1°25 | 3°18 | 7°55 | 29°30 | 28° 8 | 7°18 | n.a. | F 25 |
| S 26 | 6 6 0 | 2°19'33 | 7♋22 | 7°58 | 24° 5 | 22°30 | 13°53 | 24°36 | 1°22 | 3°16 | 7°54 | 29°21 | 28° 5 | 7°24 | n.a. | S 26 |
| S 27 | 6 9 57 | 3°20'35 | 22°42 | 8°46 | 24°32 | 22°49 | 13°45 | 24°35 | 1°20 | 3°14 | 7°53 | 29°11 | 28° 2 | 7°31 | n.a. | S 27 |
| M28 | 6 13 54 | 4°21'36 | 7♌50 | 9°39 | 25° 1 | 23° 9 | 13°37 | 24°35 | 1°17 | 3°13 | 7°52 | 29° 2 | 27°59 | 7°38 | n.a. | M28 |
| T 29 | 6 17 50 | 5°22'37 | 22°37 | 10°35 | 25°32 | 23°30 | 13°29 | 24°D35 | 1°14 | 3°11 | 7°51 | 28°53 | 27°56 | 7°44 | n.a. | T 29 |
| W30 | 6 21 47 | 6°23'36 | 6♍55 | 11°34 | 26° 5 | 23°51 | 13°22 | 24°35 | 1°12 | 3° 9 | 7°49 | 28°47 | 27°52 | 7°51 | n.a. | W30 |
| T 31 | 6 25 43 | 7♑24'35 | 20♍44 | 12♐36 | 26♏38 | 24♈12 | 13♋14 | 24♈35 | 1♋ 9 | 3♋ 8 | 7♊48 | 28♈44 | 27♈49 | 7♑58 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 21 s41 | 21n47 | 5n 4 | 22 s52 | 0n28 | 17 s 2 | 2n 3 | 7n32 | 0n51 | 23n14 | 0n35 | 7n31 | 2 s33 | 24n 3 | 0n22 | 23n 5 | 0 s34 | 17n32 | 4 s29 | 11n54 | 11n23 | 28 s18 | | | n.a. |
| W 2 | 21 52 | 16 47 | 4 38 | 22 30 | 0 48 | 16 42 | 2 16 | 7 36 | 0 52 | 23 15 | 0 35 | 7 30 | 2 33 | 24 3 | 0 22 | 23 5 | 0 34 | 17 32 | 4 28 | 11 53 | 11 22 | 28 18 | | | n.a. |
| T 3 | 22 1 | 11 5 | 3 57 | 22 6 | 1 7 | 16 23 | 2 29 | 7 40 | 0 54 | 23 16 | 0 35 | 7 30 | 2 33 | 24 3 | 0 22 | 23 5 | 0 34 | 17 31 | 4 28 | 11 53 | 11 21 | 28 18 | | | n.a. |
| F 4 | 22 11 | 5 2 | 3 5 | 21 41 | 1 27 | 16 5 | 2 41 | 7 44 | 0 55 | 23 17 | 0 35 | 7 29 | 2 33 | 24 4 | 0 22 | 23 5 | 0 34 | 17 31 | 4 28 | 11 54 | 11 20 | 28 18 | | | n.a. |
| S 5 | 22 20 | 1 s 5 | 2 4 | 21 15 | 1 47 | 15 49 | 2 53 | 7 48 | 0 57 | 23 18 | 0 35 | 7 28 | 2 32 | 24 4 | 0 23 | 23 5 | 0 34 | 17 31 | 4 28 | 11 54 | 11 19 | 28 18 | | | n.a. |
| S 6 | 22 28 | 7 2 | 0 58 | 20 49 | 2 5 | 15 33 | 3 4 | 7 53 | 0 58 | 23 18 | 0 36 | 7 27 | 2 32 | 24 4 | 0 23 | 23 5 | 0 34 | 17 31 | 4 28 | 11 55 | 11 17 | 28 18 | | | n.a. |
| M 7 | 22 36 | 12 36 | 0 s 9 | 20 23 | 2 22 | 15 18 | 3 15 | 7 58 | 0 59 | 23 19 | 0 36 | 7 27 | 2 32 | 24 4 | 0 23 | 23 5 | 0 34 | 17 31 | 4 28 | 11 55 | 11 16 | 28 18 | | | n.a. |
| T 8 | 22 44 | 17 37 | 1 14 | 19 58 | 2 37 | 15 5 | 3 25 | 8 3 | 1 1 | 23 20 | 0 36 | 7 26 | 2 32 | 24 4 | 0 23 | 23 6 | 0 34 | 17 31 | 4 28 | 11 54 | 11 15 | 28 18 | | | n.a. |
| W 9 | 22 51 | 21 51 | 2 16 | 19 35 | 2 50 | 14 53 | 3 35 | 8 8 | 1 2 | 23 21 | 0 36 | 7 26 | 2 31 | 24 4 | 0 23 | 23 6 | 0 34 | 17 31 | 4 28 | 11 53 | 11 14 | 28 18 | | | n.a. |
| T 10 | 22 58 | 25 9 | 3 10 | 19 13 | 3 1 | 14 41 | 3 44 | 8 13 | 1 3 | 23 22 | 0 36 | 7 25 | 2 31 | 24 4 | 0 23 | 23 6 | 0 34 | 17 31 | 4 28 | 11 51 | 11 13 | 28 18 | | | n.a. |
| F 11 | 23 4 | 27 18 | 3 56 | 18 55 | 3 9 | 14 32 | 3 52 | 8 19 | 1 4 | 23 23 | 0 37 | 7 24 | 2 31 | 24 4 | 0 23 | 23 6 | 0 33 | 17 30 | 4 28 | 11 49 | 11 12 | 28 18 | | | n.a. |
| S 12 | 23 10 | 28 12 | 4 31 | 18 39 | 3 14 | 14 23 | 4 0 | 8 25 | 1 5 | 23 24 | 0 37 | 7 24 | 2 30 | 24 4 | 0 23 | 23 6 | 0 33 | 17 30 | 4 28 | 11 45 | 11 11 | 28 18 | | | n.a. |
| S 13 | 23 15 | 27 47 | 4 55 | 18 27 | 3 18 | 14 15 | 4 7 | 8 31 | 1 6 | 23 25 | 0 37 | 7 24 | 2 30 | 24 4 | 0 23 | 23 6 | 0 33 | 17 30 | 4 28 | 11 42 | 11 9 | 28 19 | | | n.a. |
| M14 | 23 20 | 26 7 | 5 5 | 18 18 | 3 19 | 14 9 | 4 14 | 8 37 | 1 7 | 23 26 | 0 37 | 7 23 | 2 30 | 24 4 | 0 23 | 23 6 | 0 33 | 17 30 | 4 28 | 11 38 | 11 8 | 28 19 | | | n.a. |
| T 15 | 23 24 | 23 17 | 5 3 | 18 12 | 3 18 | 14 4 | 4 20 | 8 43 | 1 8 | 23 27 | 0 37 | 7 23 | 2 30 | 24 4 | 0 23 | 23 6 | 0 33 | 17 30 | 4 28 | 11 35 | 11 7 | 28 19 | | | n.a. |
| W16 | 23 28 | 19 26 | 4 47 | 18 10 | 3 16 | 14 0 | 4 26 | 8 50 | 1 9 | 23 28 | 0 38 | 7 23 | 2 29 | 24 4 | 0 23 | 23 6 | 0 33 | 17 30 | 4 28 | 11 32 | 11 6 | 28 19 | | | n.a. |
| T 17 | 23 32 | 14 46 | 4 18 | 18 11 | 3 12 | 13 57 | 4 31 | 8 57 | 1 10 | 23 29 | 0 38 | 7 22 | 2 29 | 24 4 | 0 23 | 23 6 | 0 33 | 17 30 | 4 27 | 11 31 | 11 5 | 28 19 | | | n.a. |
| F 18 | 23 35 | 9 25 | 3 37 | 18 14 | 3 7 | 13 55 | 4 35 | 9 3 | 1 11 | 23 30 | 0 38 | 7 22 | 2 29 | 24 4 | 0 23 | 23 6 | 0 33 | 17 30 | 4 27 | 11 30 | 11 4 | 28 19 | | | n.a. |
| S 19 | 23 37 | 3 35 | 2 45 | 18 20 | 3 1 | 13 54 | 4 40 | 9 10 | 1 12 | 23 31 | 0 38 | 7 22 | 2 28 | 24 4 | 0 23 | 23 6 | 0 33 | 17 30 | 4 27 | 11 30 | 11 3 | 28 19 | | | n.a. |
| S 20 | 23 39 | 2n34 | 1 42 | 18 29 | 2 54 | 13 54 | 4 43 | 9 17 | 1 13 | 23 32 | 0 38 | 7 22 | 2 28 | 24 4 | 0 23 | 23 6 | 0 33 | 17 29 | 4 27 | 11 30 | 11 1 | 28 18 | | | n.a. |
| M21 | 23 41 | 8 49 | 0 32 | 18 39 | 2 46 | 13 55 | 4 47 | 9 25 | 1 14 | 23 33 | 0 38 | 7 22 | 2 28 | 24 4 | 0 23 | 23 6 | 0 33 | 17 29 | 4 27 | 11 30 | 11 0 | 28 18 | | | n.a. |
| T 22 | 23 42 | 14 53 | 0n42 | 18 52 | 2 38 | 13 57 | 4 49 | 9 32 | 1 15 | 23 34 | 0 39 | 7 22 | 2 27 | 24 4 | 0 23 | 23 6 | 0 33 | 17 29 | 4 27 | 11 30 | 10 59 | 28 18 | | | n.a. |
| W23 | 23 42 | 20 21 | 1 56 | 19 5 | 2 29 | 13 59 | 4 52 | 9 40 | 1 16 | 23 34 | 0 39 | 7 22 | 2 27 | 24 5 | 0 23 | 23 6 | 0 33 | 17 29 | 4 27 | 11 29 | 10 58 | 28 18 | | | n.a. |
| T 24 | 23 42 | 24 43 | 3 4 | 19 20 | 2 20 | 14 3 | 4 54 | 9 47 | 1 16 | 23 35 | 0 39 | 7 22 | 2 27 | 24 5 | 0 23 | 23 6 | 0 33 | 17 29 | 4 27 | 11 28 | 10 57 | 28 18 | | | n.a. |
| F 25 | 23 42 | 27 28 | 4 1 | 19 36 | 2 11 | 14 7 | 4 56 | 9 55 | 1 17 | 23 36 | 0 39 | 7 22 | 2 27 | 24 5 | 0 23 | 23 6 | 0 33 | 17 29 | 4 27 | 11 25 | 10 56 | 28 18 | | | n.a. |
| S 26 | 23 41 | 28 11 | 4 41 | 19 53 | 2 2 | 14 12 | 4 57 | 10 3 | 1 18 | 23 37 | 0 39 | 7 22 | 2 26 | 24 5 | 0 23 | 23 6 | 0 33 | 17 29 | 4 27 | 11 22 | 10 55 | 28 18 | | | n.a. |
| S 27 | 23 40 | 26 43 | 5 1 | 20 10 | 1 52 | 14 18 | 4 58 | 10 11 | 1 19 | 23 38 | 0 39 | 7 22 | 2 26 | 24 5 | 0 23 | 23 7 | 0 33 | 17 29 | 4 27 | 11 18 | 10 53 | 28 18 | | | n.a. |
| M28 | 23 38 | 23 19 | 4 59 | 20 27 | 1 43 | 14 24 | 4 59 | 10 19 | 1 19 | 23 39 | 0 40 | 7 22 | 2 26 | 24 5 | 0 23 | 23 7 | 0 33 | 17 29 | 4 26 | 11 15 | 10 52 | 28 18 | | | n.a. |
| T 29 | 23 36 | 18 30 | 4 38 | 20 45 | 1 33 | 14 31 | 4 59 | 10 28 | 1 20 | 23 40 | 0 40 | 7 23 | 2 25 | 24 5 | 0 23 | 23 7 | 0 33 | 17 29 | 4 26 | 11 12 | 10 51 | 28 18 | | | n.a. |
| W30 | 23 33 | 12 45 | 3 59 | 21 3 | 1 23 | 14 38 | 4 59 | 10 36 | 1 21 | 23 41 | 0 40 | 7 23 | 2 25 | 24 5 | 0 23 | 23 7 | 0 33 | 17 29 | 4 26 | 11 10 | 10 50 | 28 18 | | | n.a. |
| T 31 | 23 s30 | 6n34 | 3n 7 | 21 s20 | 1n14 | 14 s46 | 4n59 | 10n44 | 1n21 | 23n42 | 0n40 | 7n23 | 2 s25 | 24n 5 | 0n23 | 23n 7 | 0 s33 | 17n29 | 4 s26 | 11n 9 | 10n49 | 28 s18 | | | n.a. |

Julian Day Number = 1698746.5, Delta T = 03h06m40s
Ecliptic obliquity = 23°42'17, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°55'16, Lahiri = - 4°48'15 Julian Calendar 1 Dec. 63 BCE == Greg. Calendar 29 Nov. 063 BCE

The year -62 astronomical counting style corresponds to year 063 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 62 BCE
# geocentric

## JANUARY 62 BCE (-61) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 6 29 40 | 8♑25'33 | 4♎ 5 | 13♐41 | 27♏14 | 24♈33 | 13°R 6 | 24♈35 | 1°R 7 | 3°R 6 | 7°R47 | 28°D43 | 27♈46 | 8♑ 5 | n.a. | F 1 |
| S 2 | 6 33 36 | 9°26'30 | 16°59 | 14°48 | 27°50 | 24°55 | 12♋58 | 24°36 | 1♋ 4 | 3♋ 4 | 7♊46 | 28♈43 | 27°43 | 8°11 | n.a. | S 2 |
| S 3 | 6 37 33 | 10°27'26 | 29°33 | 15°57 | 28°28 | 25°17 | 12°50 | 24°36 | 1° 2 | 3° 2 | 7°45 | 28°R43 | 27°40 | 8°18 | n.a. | S 3 |
| M 4 | 6 41 29 | 11°28'21 | 11♏49 | 17° 8 | 29° 7 | 25°39 | 12°42 | 24°37 | 0°59 | 3° 1 | 7°44 | 28°42 | 27°37 | 8°25 | n.a. | M 4 |
| T 5 | 6 45 26 | 12°29'15 | 23°54 | 18°20 | 29°47 | 26° 2 | 12°34 | 24°38 | 0°56 | 2°59 | 7°43 | 28°40 | 27°33 | 8°31 | n.a. | T 5 |
| W 6 | 6 49 23 | 13°30'08 | 5♐52 | 19°35 | 0♐29 | 26°25 | 12°26 | 24°39 | 0°54 | 2°57 | 7°42 | 28°34 | 27°30 | 8°38 | n.a. | W 6 |
| T 7 | 6 53 19 | 14°31'00 | 17°44 | 20°51 | 1°11 | 26°49 | 12°18 | 24°40 | 0°51 | 2°56 | 7°41 | 28°25 | 27°27 | 8°45 | n.a. | T 7 |
| F 8 | 6 57 16 | 15°31'51 | 29°35 | 22° 8 | 1°55 | 27°12 | 12°10 | 24°41 | 0°49 | 2°54 | 7°40 | 28°14 | 27°24 | 8°52 | n.a. | F 8 |
| S 9 | 7 1 12 | 16°32'41 | 11♑27 | 23°27 | 2°40 | 27°36 | 12° 2 | 24°42 | 0°46 | 2°53 | 7°40 | 28° 0 | 27°21 | 8°58 | n.a. | S 9 |
| S 10 | 7 5 9 | 17°33'29 | 23°19 | 24°48 | 3°25 | 28° 1 | 11°54 | 24°43 | 0°44 | 2°51 | 7°39 | 27°45 | 27°18 | 9° 5 | n.a. | S 10 |
| M11 | 7 9 5 | 18°34'16 | 5♒15 | 26° 9 | 4°12 | 28°25 | 11°46 | 24°44 | 0°41 | 2°49 | 7°38 | 27°30 | 27°14 | 9°12 | n.a. | M11 |
| T 12 | 7 13 2 | 19°35'01 | 17°15 | 27°32 | 4°59 | 28°50 | 11°38 | 24°46 | 0°39 | 2°48 | 7°37 | 27°17 | 27°11 | 9°18 | n.a. | T 12 |
| W13 | 7 16 59 | 20°35'45 | 29°20 | 28°55 | 5°47 | 29°15 | 11°30 | 24°48 | 0°37 | 2°46 | 7°36 | 27° 6 | 27° 8 | 9°25 | n.a. | W13 |
| T 14 | 7 20 55 | 21°36'26 | 11♓34 | 0♑20 | 6°36 | 29°41 | 11°23 | 24°49 | 0°34 | 2°44 | 7°35 | 26°57 | 27° 5 | 9°32 | n.a. | T 14 |
| F 15 | 7 24 52 | 22°37'06 | 23°57 | 1°46 | 7°26 | 0♉ 6 | 11°15 | 24°51 | 0°32 | 2°43 | 7°34 | 26°52 | 27° 2 | 9°39 | n.a. | F 15 |
| S 16 | 7 28 48 | 23°37'45 | 6♈35 | 3°13 | 8°17 | 0°32 | 11° 7 | 24°53 | 0°29 | 2°41 | 7°34 | 26°50 | 26°58 | 9°45 | n.a. | S 16 |
| S 17 | 7 32 45 | 24°38'21 | 19°30 | 4°41 | 9° 8 | 0°58 | 11° 0 | 24°55 | 0°27 | 2°40 | 7°33 | 26°49 | 26°55 | 9°52 | n.a. | S 17 |
| M18 | 7 36 41 | 25°38'55 | 2♉47 | 6°10 | 10° 0 | 1°25 | 10°52 | 24°57 | 0°25 | 2°38 | 7°32 | 26°49 | 26°52 | 9°59 | n.a. | M18 |
| T 19 | 7 40 38 | 26°39'28 | 16°29 | 7°40 | 10°53 | 1°51 | 10°45 | 25° 0 | 0°23 | 2°37 | 7°31 | 26°48 | 26°49 | 10° 6 | n.a. | T 19 |
| W20 | 7 44 34 | 27°39'59 | 0♊38 | 9°11 | 11°46 | 2°18 | 10°37 | 25° 2 | 0°20 | 2°35 | 7°30 | 26°46 | 26°46 | 10°12 | n.a. | W20 |
| T 21 | 7 48 31 | 28°40'27 | 15°13 | 10°42 | 12°40 | 2°45 | 10°30 | 25° 5 | 0°18 | 2°34 | 7°30 | 26°40 | 26°43 | 10°19 | n.a. | T 21 |
| F 22 | 7 52 28 | 29°40'54 | 0♋10 | 12°15 | 13°35 | 3°12 | 10°23 | 25° 7 | 0°16 | 2°32 | 7°29 | 26°32 | 26°39 | 10°26 | n.a. | F 22 |
| S 23 | 7 56 24 | 0♒41'19 | 15°23 | 13°49 | 14°30 | 3°40 | 10°16 | 25°10 | 0°14 | 2°31 | 7°28 | 26°22 | 26°36 | 10°32 | n.a. | S 23 |
| S 24 | 8 0 21 | 1°41'42 | 0♌41 | 15°23 | 15°25 | 4° 7 | 10° 9 | 25°13 | 0°12 | 2°29 | 7°28 | 26°11 | 26°33 | 10°39 | n.a. | S 24 |
| M25 | 8 4 17 | 2°42'03 | 15°52 | 16°59 | 16°22 | 4°35 | 10° 2 | 25°16 | 0°10 | 2°28 | 7°27 | 25°59 | 26°30 | 10°46 | n.a. | M25 |
| T 26 | 8 8 14 | 3°42'23 | 0♍46 | 18°36 | 17°18 | 5° 3 | 9°55 | 25°19 | 0° 8 | 2°26 | 7°26 | 25°49 | 26°27 | 10°53 | n.a. | T 26 |
| W27 | 8 12 10 | 4°42'40 | 15°15 | 20°13 | 18°16 | 5°31 | 9°48 | 25°22 | 0° 6 | 2°25 | 7°26 | 25°42 | 26°24 | 10°59 | n.a. | W27 |
| T 28 | 8 16 7 | 5°42'56 | 29°15 | 21°52 | 19°13 | 6° 0 | 9°42 | 25°25 | 0° 4 | 2°24 | 7°25 | 25°37 | 26°20 | 11° 6 | n.a. | T 28 |
| F 29 | 8 20 3 | 6°43'11 | 12♎44 | 23°31 | 20°12 | 6°28 | 9°35 | 25°28 | 0° 2 | 2°22 | 7°25 | 25°35 | 26°17 | 11°13 | n.a. | F 29 |
| S 30 | 8 24 0 | 7°43'24 | 25°46 | 25°12 | 21°10 | 6°57 | 9°29 | 25°32 | 29♊59 | 2°21 | 7°24 | 25°D34 | 26°14 | 11°19 | n.a. | S 30 |
| S 31 | 8 27 57 | 8♒43'35 | 8♏23 | 26♑53 | 22♐ 9 | 7♉26 | 9♋23 | 25♈35 | 29♊58 | 2♋20 | 7♊24 | 25°R34 | 26♈11 | 11♑26 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 23s26 | 0n18 | 2n 7 | 21s38 | 1n 4 | 14s55 | 4n58 | 10n53 | 1n22 | 23n43 | 0n40 | 7n24 | 2s24 | 24n 5 | 0n23 | 23n 7 | 0s33 | 17n29 | 4s26 | 11n 8 | 10n48 | 28s18 | | n.a. |
| S 2 | 23 22 | 5s48 | 1 2 | 21 55 | 0 55 | 15 4 | 4 58 | 11 1 | 1 22 | 23 44 | 0 40 | 7 24 | 2 24 | 24 5 | 0 23 | 23 7 | 0 33 | 17 28 | 4 26 | 11 8 | 10 47 | 28 17 | | n.a. |
| S 3 | 23 17 | 11 30 | 0s 4 | 22 12 | 0 46 | 15 13 | 4 57 | 11 10 | 1 23 | 23 45 | 0 41 | 7 25 | 2 24 | 24 5 | 0 23 | 23 7 | 0 33 | 17 28 | 4 26 | 11 8 | 10 45 | 28 17 | | n.a. |
| M 4 | 23 12 | 16 39 | 1 9 | 22 28 | 0 37 | 15 23 | 4 55 | 11 19 | 1 23 | 23 46 | 0 41 | 7 25 | 2 23 | 24 5 | 0 23 | 23 7 | 0 33 | 17 28 | 4 26 | 11 8 | 10 44 | 28 17 | | n.a. |
| T 5 | 23 7 | 21 3 | 2 9 | 22 44 | 0 28 | 15 33 | 4 54 | 11 28 | 1 24 | 23 47 | 0 41 | 7 26 | 2 23 | 24 5 | 0 23 | 23 7 | 0 33 | 17 28 | 4 26 | 11 7 | 10 43 | 28 17 | | n.a. |
| W 6 | 23 1 | 24 31 | 3 3 | 22 59 | 0 19 | 15 43 | 4 52 | 11 37 | 1 24 | 23 48 | 0 41 | 7 26 | 2 23 | 24 5 | 0 23 | 23 7 | 0 33 | 17 28 | 4 25 | 11 5 | 10 42 | 28 17 | | n.a. |
| T 7 | 22 54 | 26 55 | 3 48 | 23 13 | 0 10 | 15 53 | 4 50 | 11 46 | 1 25 | 23 49 | 0 41 | 7 27 | 2 23 | 24 5 | 0 23 | 23 7 | 0 33 | 17 28 | 4 25 | 11 2 | 10 41 | 28 17 | | n.a. |
| F 8 | 22 47 | 28 6 | 4 24 | 23 26 | 0 2 | 16 4 | 4 48 | 11 55 | 1 25 | 23 49 | 0 41 | 7 28 | 2 22 | 24 5 | 0 23 | 23 7 | 0 33 | 17 28 | 4 25 | 10 58 | 10 40 | 28 16 | | n.a. |
| S 9 | 22 40 | 27 58 | 4 47 | 23 39 | 0s 7 | 16 15 | 4 46 | 12 4 | 1 26 | 23 50 | 0 41 | 7 28 | 2 22 | 24 5 | 0 23 | 23 7 | 0 33 | 17 28 | 4 25 | 10 53 | 10 39 | 28 16 | | n.a. |
| S 10 | 22 32 | 26 34 | 4 58 | 23 51 | 0 15 | 16 26 | 4 44 | 12 13 | 1 26 | 23 51 | 0 41 | 7 29 | 2 22 | 24 5 | 0 23 | 23 7 | 0 33 | 17 28 | 4 25 | 10 47 | 10 37 | 28 16 | | n.a. |
| M11 | 22 24 | 23 57 | 4 57 | 24 1 | 0 22 | 16 37 | 4 41 | 12 23 | 1 27 | 23 52 | 0 42 | 7 30 | 2 21 | 24 5 | 0 23 | 23 7 | 0 33 | 17 28 | 4 25 | 10 42 | 10 36 | 28 16 | | n.a. |
| T 12 | 22 15 | 20 18 | 4 42 | 24 11 | 0 30 | 16 48 | 4 38 | 12 32 | 1 27 | 23 53 | 0 42 | 7 31 | 2 21 | 24 5 | 0 23 | 23 7 | 0 33 | 17 28 | 4 25 | 10 37 | 10 35 | 28 16 | | n.a. |
| W13 | 22 6 | 15 47 | 4 14 | 24 19 | 0 37 | 16 59 | 4 35 | 12 41 | 1 27 | 23 54 | 0 42 | 7 32 | 2 21 | 24 5 | 0 23 | 23 7 | 0 33 | 17 28 | 4 25 | 10 33 | 10 34 | 28 15 | | n.a. |
| T 14 | 21 57 | 10 36 | 3 34 | 24 27 | 0 45 | 17 11 | 4 32 | 12 51 | 1 28 | 23 54 | 0 42 | 7 33 | 2 20 | 24 5 | 0 23 | 23 7 | 0 33 | 17 28 | 4 24 | 10 30 | 10 33 | 28 15 | | n.a. |
| F 15 | 21 47 | 4 56 | 2 44 | 24 33 | 0 51 | 17 22 | 4 29 | 13 0 | 1 28 | 23 55 | 0 42 | 7 34 | 2 20 | 24 5 | 0 23 | 23 8 | 0 33 | 17 28 | 4 24 | 10 28 | 10 32 | 28 15 | | n.a. |
| S 16 | 21 37 | 1n 3 | 1 45 | 24 38 | 0 58 | 17 33 | 4 26 | 13 10 | 1 29 | 23 56 | 0 42 | 7 35 | 2 20 | 24 5 | 0 23 | 23 8 | 0 33 | 17 28 | 4 24 | 10 27 | 10 30 | 28 15 | | n.a. |
| S 17 | 21 26 | 7 7 | 0 39 | 24 42 | 1 4 | 17 45 | 4 22 | 13 20 | 1 29 | 23 57 | 0 42 | 7 36 | 2 19 | 24 5 | 0 23 | 23 8 | 0 33 | 17 28 | 4 24 | 10 27 | 10 29 | 28 14 | | n.a. |
| M18 | 21 15 | 13 4 | 0n32 | 24 44 | 1 11 | 17 56 | 4 19 | 13 29 | 1 29 | 23 57 | 0 42 | 7 37 | 2 19 | 24 5 | 0 23 | 23 8 | 0 33 | 17 28 | 4 24 | 10 27 | 10 28 | 28 14 | | n.a. |
| T 19 | 21 3 | 18 34 | 1 42 | 24 45 | 1 16 | 18 7 | 4 15 | 13 39 | 1 30 | 23 58 | 0 42 | 7 38 | 2 19 | 24 5 | 0 23 | 23 8 | 0 33 | 17 28 | 4 24 | 10 27 | 10 27 | 28 14 | | n.a. |
| W20 | 20 51 | 23 15 | 2 48 | 24 45 | 1 22 | 18 18 | 4 11 | 13 49 | 1 30 | 23 59 | 0 42 | 7 39 | 2 19 | 24 5 | 0 23 | 23 8 | 0 33 | 17 28 | 4 24 | 10 26 | 10 26 | 28 14 | | n.a. |
| T 21 | 20 39 | 26 37 | 3 46 | 24 43 | 1 27 | 18 29 | 4 7 | 13 58 | 1 30 | 23 59 | 0 43 | 7 40 | 2 18 | 24 5 | 0 23 | 23 8 | 0 33 | 17 28 | 4 24 | 10 24 | 10 25 | 28 13 | | n.a. |
| F 22 | 20 27 | 28 11 | 4 29 | 24 40 | 1 32 | 18 40 | 4 3 | 14 8 | 1 30 | 24 0 | 0 43 | 7 41 | 2 18 | 24 5 | 0 23 | 23 8 | 0 33 | 17 28 | 4 23 | 10 21 | 10 23 | 28 13 | | n.a. |
| S 23 | 20 14 | 27 41 | 4 54 | 24 35 | 1 37 | 18 50 | 3 59 | 14 18 | 1 31 | 24 1 | 0 43 | 7 43 | 2 18 | 24 5 | 0 23 | 23 8 | 0 33 | 17 28 | 4 23 | 10 17 | 10 22 | 28 13 | | n.a. |
| S 24 | 20 0 | 25 5 | 4 59 | 24 29 | 1 41 | 19 0 | 3 55 | 14 27 | 1 31 | 24 1 | 0 43 | 7 44 | 2 17 | 24 5 | 0 23 | 23 8 | 0 33 | 17 28 | 4 23 | 10 13 | 10 21 | 28 12 | | n.a. |
| M25 | 19 46 | 20 44 | 4 42 | 24 21 | 1 45 | 19 11 | 3 51 | 14 37 | 1 31 | 24 2 | 0 43 | 7 45 | 2 17 | 24 5 | 0 23 | 23 8 | 0 33 | 17 28 | 4 23 | 10 9 | 10 20 | 28 12 | | n.a. |
| T 26 | 19 32 | 15 9 | 4 7 | 24 12 | 1 49 | 19 20 | 3 46 | 14 47 | 1 31 | 24 3 | 0 43 | 7 47 | 2 17 | 24 5 | 0 23 | 23 8 | 0 33 | 17 28 | 4 23 | 10 5 | 10 19 | 28 12 | | n.a. |
| W27 | 19 18 | 8 52 | 3 16 | 24 1 | 1 52 | 19 30 | 3 42 | 14 57 | 1 32 | 24 3 | 0 43 | 7 48 | 2 16 | 24 5 | 0 23 | 23 8 | 0 33 | 17 28 | 4 23 | 10 2 | 10 18 | 28 11 | | n.a. |
| T 28 | 19 3 | 2 21 | 2 14 | 23 48 | 1 55 | 19 39 | 3 37 | 15 6 | 1 32 | 24 4 | 0 43 | 7 50 | 2 16 | 24 5 | 0 23 | 23 8 | 0 33 | 17 28 | 4 23 | 10 1 | 10 16 | 28 11 | | n.a. |
| F 29 | 18 48 | 4s 3 | 1 7 | 23 34 | 1 58 | 19 48 | 3 33 | 15 16 | 1 32 | 24 4 | 0 43 | 7 51 | 2 16 | 24 5 | 0 23 | 23 8 | 0 33 | 17 28 | 4 22 | 10 0 | 10 15 | 28 11 | | n.a. |
| S 30 | 18 32 | 10 5 | 0s 1 | 23 18 | 2 0 | 19 57 | 3 28 | 15 26 | 1 32 | 24 5 | 0 43 | 7 53 | 2 16 | 24 5 | 0 23 | 23 8 | 0 33 | 17 29 | 4 22 | 10 0 | 10 14 | 28 10 | | n.a. |
| S 31 | 18s17 | 15s31 | 1s 7 | 23s 0 | 2s 2 | 20s 5 | 3n23 | 15n36 | 1n32 | 24n 5 | 0n43 | 7n54 | 2s15 | 24n 5 | 0n23 | 23n 8 | 0s33 | 17n29 | 4s22 | 10n 0 | 10n13 | 28s10 | | n.a. |

Julian Day Number = 1698777.5, Delta T = 03h06m40s
Ecliptic obliquity = 23°42'17, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°55'11, Lahiri = - 4°48'11 Julian Calendar 1 Jan. 62 BCE == Greg. Calendar 30 Dec. 063 BCE

The year -61 astronomical counting style corresponds to year 062 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 62 BCE
# geocentric

## FEBRUARY 62 BCE (-61) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 8 31 53 | 9♒43'44 | 20♏41 | 28♑36 | 23♐ 9 | 7♉55 | 9°R17 | 25♈39 | 29°R56 | 2°R18 | 7°R23 | 25°R34 | 26♈ 8 | 11♑33 | n.a. | M 1 |
| T 2 | 8 35 50 | 10°43'52 | 2♐45 | 0♒20 | 24° 9 | 8°24 | 9♋11 | 25°43 | 29♊54 | 2♋17 | 7♊23 | 25♈32 | 26° 4 | 11°40 | n.a. | T 2 |
| W 3 | 8 39 46 | 11°43'59 | 14°40 | 2° 4 | 25° 9 | 8°53 | 9° 5 | 25°47 | 29°52 | 2°16 | 7°22 | 25°27 | 26° 1 | 11°46 | n.a. | W 3 |
| T 4 | 8 43 43 | 12°44'03 | 26°31 | 3°50 | 26° 9 | 9°23 | 8°59 | 25°50 | 29°51 | 2°15 | 7°22 | 25°20 | 25°58 | 11°53 | n.a. | T 4 |
| F 5 | 8 47 39 | 13°44'06 | 8♑21 | 5°37 | 27°10 | 9°53 | 8°54 | 25°54 | 29°49 | 2°14 | 7°21 | 25°10 | 25°55 | 12° 0 | n.a. | F 5 |
| S 6 | 8 51 36 | 14°44'07 | 20°13 | 7°25 | 28°12 | 10°22 | 8°49 | 25°59 | 29°47 | 2°12 | 7°21 | 24°58 | 25°52 | 12° 6 | n.a. | S 6 |
| S 7 | 8 55 32 | 15°44'06 | 2♒ 9 | 9°14 | 29°13 | 10°52 | 8°43 | 26° 3 | 29°46 | 2°11 | 7°21 | 24°44 | 25°49 | 12°13 | n.a. | S 7 |
| M 8 | 8 59 29 | 16°44'03 | 14°11 | 11° 5 | 0♑15 | 11°23 | 8°38 | 26° 7 | 29°44 | 2°10 | 7°20 | 24°31 | 25°45 | 12°20 | n.a. | M 8 |
| T 9 | 9 3 26 | 17°43'58 | 26°21 | 12°56 | 1°18 | 11°53 | 8°34 | 26°11 | 29°43 | 2° 9 | 7°20 | 24°19 | 25°42 | 12°27 | n.a. | T 9 |
| W10 | 9 7 22 | 18°43'51 | 8♓38 | 14°48 | 2°20 | 12°23 | 8°29 | 26°16 | 29°41 | 2° 8 | 7°20 | 24° 9 | 25°39 | 12°33 | n.a. | W10 |
| T 11 | 9 11 19 | 19°43'41 | 21° 3 | 16°42 | 3°23 | 12°54 | 8°24 | 26°20 | 29°40 | 2° 7 | 7°19 | 24° 1 | 25°36 | 12°40 | n.a. | T 11 |
| F 12 | 9 15 15 | 20°43'30 | 3♈39 | 18°36 | 4°26 | 13°24 | 8°20 | 26°25 | 29°38 | 2° 6 | 7°19 | 23°57 | 25°33 | 12°47 | n.a. | F 12 |
| S 13 | 9 19 12 | 21°43'16 | 16°27 | 20°32 | 5°29 | 13°55 | 8°16 | 26°30 | 29°37 | 2° 5 | 7°19 | 23°55 | 25°30 | 12°54 | n.a. | S 13 |
| S 14 | 9 23 8 | 22°43'00 | 29°29 | 22°29 | 6°33 | 14°26 | 8°12 | 26°35 | 29°36 | 2° 4 | 7°19 | 23°D55 | 25°26 | 13° 0 | n.a. | S 14 |
| M15 | 9 27 5 | 23°42'41 | 12♉47 | 24°26 | 7°37 | 14°57 | 8° 8 | 26°39 | 29°35 | 2° 3 | 7°19 | 23°55 | 25°23 | 13° 7 | n.a. | M15 |
| T 16 | 9 31 1 | 24°42'20 | 26°25 | 26°25 | 8°41 | 15°28 | 8° 4 | 26°44 | 29°33 | 2° 2 | 7°18 | 23°R56 | 25°20 | 13°14 | n.a. | T 16 |
| W17 | 9 34 58 | 25°41'57 | 10♊23 | 28°24 | 9°45 | 15°59 | 8° 1 | 26°49 | 29°32 | 2° 1 | 7°18 | 23°55 | 25°17 | 13°20 | n.a. | W17 |
| T 18 | 9 38 54 | 26°41'31 | 24°41 | 0♓23 | 10°50 | 16°31 | 7°58 | 26°55 | 29°31 | 2° 0 | 7°18 | 23°52 | 25°14 | 13°27 | n.a. | T 18 |
| F 19 | 9 42 51 | 27°41'03 | 9♋18 | 2°24 | 11°54 | 17° 2 | 7°55 | 27° 0 | 29°30 | 2° 0 | 7°18 | 23°46 | 25°10 | 13°34 | n.a. | F 19 |
| S 20 | 9 46 48 | 28°40'33 | 24° 9 | 4°24 | 12°59 | 17°34 | 7°52 | 27° 5 | 29°29 | 1°59 | 7°18 | 23°39 | 25° 7 | 13°41 | n.a. | S 20 |
| S 21 | 9 50 44 | 29°40'00 | 9♌ 7 | 6°25 | 14° 4 | 18° 6 | 7°49 | 27°10 | 29°28 | 1°58 | 7°18 | 23°31 | 25° 4 | 13°47 | n.a. | S 21 |
| M22 | 9 54 41 | 0♓39'25 | 24° 2 | 8°25 | 15°10 | 18°37 | 7°46 | 27°16 | 29°27 | 1°57 | 7°D18 | 23°22 | 25° 1 | 13°54 | n.a. | M22 |
| T 23 | 9 58 37 | 1°38'48 | 8♍46 | 10°25 | 16°15 | 19° 9 | 7°44 | 27°21 | 29°27 | 1°57 | 7°18 | 23°15 | 24°58 | 14° 1 | n.a. | T 23 |
| W24 | 10 2 34 | 2°38'09 | 23°10 | 12°25 | 17°21 | 19°41 | 7°42 | 27°27 | 29°26 | 1°56 | 7°18 | 23°10 | 24°55 | 14° 7 | n.a. | W24 |
| T 25 | 10 6 30 | 3°37'27 | 7♎10 | 14°23 | 18°27 | 20°13 | 7°40 | 27°32 | 29°25 | 1°55 | 7°18 | 23° 6 | 24°51 | 14°14 | n.a. | T 25 |
| F 26 | 10 10 27 | 4°36'44 | 20°43 | 16°20 | 19°33 | 20°45 | 7°38 | 27°38 | 29°24 | 1°55 | 7°18 | 23°D 5 | 24°48 | 14°21 | n.a. | F 26 |
| S 27 | 10 14 23 | 5°35'58 | 3♏50 | 18°15 | 20°39 | 21°18 | 7°36 | 27°44 | 29°24 | 1°54 | 7°18 | 23° 5 | 24°45 | 14°28 | n.a. | S 27 |
| S 28 | 10 18 20 | 6♓35'11 | 16♏33 | 20♓ 8 | 21♑46 | 21♉50 | 7♋35 | 27♈50 | 29♊23 | 1♋54 | 7♊18 | 23♈ 7 | 24♈42 | 14♑34 | n.a. | S 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 18s 1 | 20s11 | 2s 9 | 22s40 | 2s 3 | 20s13 | 3n19 | 15n46 | 1n33 | 24n 6 | 0n43 | 7n56 | 2s15 | 24n 5 | 0n23 | 23n 8 | 0s33 | 17n29 | 4s22 | 9n59 | 10n12 | 28s 9 | | n.a. |
| T 2 | 17 44 | 23 56 | 3 3 | 22 19 | 2 4 | 20 21 | 3 14 | 15 55 | 1 33 | 24 6 | 0 43 | 7 57 | 2 15 | 24 5 | 0 23 | 23 8 | 0 33 | 17 29 | 4 22 | 9 59 | 10 11 | 28 9 | | n.a. |
| W 3 | 17 28 | 26 36 | 3 49 | 21 56 | 2 5 | 20 28 | 3 9 | 16 5 | 1 33 | 24 7 | 0 43 | 7 59 | 2 14 | 24 5 | 0 23 | 23 8 | 0 33 | 17 29 | 4 22 | 9 57 | 10 10 | 28 9 | | n.a. |
| T 4 | 17 11 | 28 4 | 4 24 | 21 32 | 2 5 | 20 35 | 3 4 | 16 15 | 1 33 | 24 7 | 0 43 | 8 1 | 2 14 | 24 5 | 0 23 | 23 9 | 0 33 | 17 29 | 4 22 | 9 54 | 10 8 | 28 8 | | n.a. |
| F 5 | 16 53 | 28 14 | 4 48 | 21 5 | 2 4 | 20 41 | 2 59 | 16 24 | 1 33 | 24 8 | 0 43 | 8 2 | 2 14 | 24 5 | 0 23 | 23 9 | 0 33 | 17 29 | 4 21 | 9 51 | 10 7 | 28 8 | | n.a. |
| S 6 | 16 36 | 27 6 | 5 0 | 20 37 | 2 4 | 20 47 | 2 54 | 16 34 | 1 33 | 24 8 | 0 44 | 8 4 | 2 14 | 24 5 | 0 23 | 23 9 | 0 33 | 17 29 | 4 21 | 9 46 | 10 6 | 28 7 | | n.a. |
| S 7 | 16 18 | 24 44 | 4 58 | 20 6 | 2 2 | 20 53 | 2 49 | 16 44 | 1 33 | 24 8 | 0 44 | 8 6 | 2 13 | 24 5 | 0 23 | 23 9 | 0 33 | 17 29 | 4 21 | 9 41 | 10 5 | 28 7 | | n.a. |
| M 8 | 16 0 | 21 16 | 4 44 | 19 34 | 2 1 | 20 58 | 2 44 | 16 53 | 1 34 | 24 9 | 0 44 | 8 8 | 2 13 | 24 5 | 0 23 | 23 9 | 0 33 | 17 29 | 4 21 | 9 36 | 10 4 | 28 7 | | n.a. |
| T 9 | 15 41 | 16 53 | 4 16 | 19 0 | 1 58 | 21 3 | 2 39 | 17 3 | 1 34 | 24 9 | 0 44 | 8 10 | 2 13 | 24 5 | 0 23 | 23 9 | 0 32 | 17 29 | 4 21 | 9 32 | 10 3 | 28 6 | | n.a. |
| W10 | 15 23 | 11 45 | 3 36 | 18 25 | 1 55 | 21 7 | 2 34 | 17 13 | 1 34 | 24 9 | 0 44 | 8 11 | 2 13 | 24 5 | 0 23 | 23 9 | 0 32 | 17 29 | 4 21 | 9 28 | 10 1 | 28 6 | | n.a. |
| T 11 | 15 4 | 6 7 | 2 45 | 17 47 | 1 52 | 21 10 | 2 29 | 17 22 | 1 34 | 24 10 | 0 44 | 8 13 | 2 12 | 24 5 | 0 23 | 23 9 | 0 32 | 17 30 | 4 20 | 9 25 | 10 0 | 28 5 | | n.a. |
| F 12 | 14 45 | 0 9 | 1 46 | 17 8 | 1 48 | 21 14 | 2 24 | 17 32 | 1 34 | 24 10 | 0 44 | 8 15 | 2 12 | 24 5 | 0 23 | 23 9 | 0 32 | 17 30 | 4 20 | 9 24 | 9 59 | 28 5 | | n.a. |
| S 13 | 14 25 | 5n56 | 0 40 | 16 26 | 1 44 | 21 16 | 2 19 | 17 41 | 1 34 | 24 10 | 0 44 | 8 17 | 2 12 | 24 5 | 0 23 | 23 9 | 0 32 | 17 30 | 4 20 | 9 23 | 9 58 | 28 4 | | n.a. |
| S 14 | 14 6 | 11 52 | 0n30 | 15 44 | 1 39 | 21 18 | 2 14 | 17 51 | 1 34 | 24 11 | 0 44 | 8 19 | 2 11 | 24 5 | 0 23 | 23 9 | 0 32 | 17 30 | 4 20 | 9 23 | 9 57 | 28 4 | | n.a. |
| M15 | 13 46 | 17 25 | 1 39 | 14 59 | 1 33 | 21 20 | 2 9 | 18 0 | 1 34 | 24 11 | 0 44 | 8 21 | 2 11 | 24 5 | 0 23 | 23 9 | 0 32 | 17 30 | 4 20 | 9 23 | 9 55 | 28 3 | | n.a. |
| T 16 | 13 26 | 22 14 | 2 44 | 14 13 | 1 27 | 21 21 | 2 4 | 18 9 | 1 34 | 24 11 | 0 44 | 8 23 | 2 11 | 24 5 | 0 23 | 23 9 | 0 32 | 17 30 | 4 20 | 9 23 | 9 54 | 28 3 | | n.a. |
| W17 | 13 6 | 25 54 | 3 42 | 13 25 | 1 20 | 21 22 | 1 59 | 18 19 | 1 34 | 24 11 | 0 44 | 8 25 | 2 11 | 24 5 | 0 23 | 23 9 | 0 32 | 17 30 | 4 20 | 9 23 | 9 53 | 28 2 | | n.a. |
| T 18 | 12 45 | 28 2 | 4 27 | 12 35 | 1 13 | 21 22 | 1 54 | 18 28 | 1 34 | 24 11 | 0 44 | 8 27 | 2 10 | 24 5 | 0 23 | 23 9 | 0 32 | 17 30 | 4 19 | 9 22 | 9 52 | 28 2 | | n.a. |
| F 19 | 12 25 | 28 17 | 4 56 | 11 45 | 1 5 | 21 21 | 1 49 | 18 37 | 1 34 | 24 12 | 0 44 | 8 30 | 2 10 | 24 5 | 0 23 | 23 9 | 0 32 | 17 31 | 4 19 | 9 20 | 9 51 | 28 1 | | n.a. |
| S 20 | 12 4 | 26 31 | 5 5 | 10 52 | 0 56 | 21 20 | 1 44 | 18 46 | 1 34 | 24 12 | 0 44 | 8 32 | 2 10 | 24 5 | 0 23 | 23 9 | 0 32 | 17 31 | 4 19 | 9 17 | 9 50 | 28 1 | | n.a. |
| S 21 | 11 43 | 22 53 | 4 54 | 9 59 | 0 47 | 21 19 | 1 39 | 18 55 | 1 34 | 24 12 | 0 44 | 8 34 | 2 10 | 24 5 | 0 23 | 23 9 | 0 32 | 17 31 | 4 19 | 9 14 | 9 48 | 28 0 | | n.a. |
| M22 | 11 22 | 17 47 | 4 23 | 9 5 | 0 37 | 21 17 | 1 34 | 19 4 | 1 34 | 24 12 | 0 44 | 8 36 | 2 10 | 24 5 | 0 23 | 23 9 | 0 32 | 17 31 | 4 19 | 9 11 | 9 47 | 27 59 | | n.a. |
| T 23 | 11 0 | 11 41 | 3 35 | 8 10 | 0 27 | 21 14 | 1 29 | 19 13 | 1 34 | 24 12 | 0 44 | 8 38 | 2 9 | 24 5 | 0 23 | 23 9 | 0 32 | 17 31 | 4 19 | 9 8 | 9 46 | 27 59 | | n.a. |
| W24 | 10 39 | 5 5 | 2 34 | 7 14 | 0 17 | 21 11 | 1 24 | 19 22 | 1 34 | 24 12 | 0 44 | 8 40 | 2 9 | 24 5 | 0 23 | 23 9 | 0 32 | 17 31 | 4 18 | 9 6 | 9 45 | 27 58 | | n.a. |
| T 25 | 10 17 | 1s35 | 1 25 | 6 18 | 0 5 | 21 7 | 1 19 | 19 31 | 1 34 | 24 13 | 0 44 | 8 43 | 2 9 | 24 5 | 0 23 | 23 9 | 0 32 | 17 31 | 4 18 | 9 5 | 9 44 | 27 58 | | n.a. |
| F 26 | 9 56 | 7 59 | 0 13 | 5 22 | 0n 6 | 21 2 | 1 14 | 19 39 | 1 34 | 24 13 | 0 44 | 8 45 | 2 9 | 24 5 | 0 23 | 23 9 | 0 32 | 17 32 | 4 18 | 9 4 | 9 43 | 27 57 | | n.a. |
| S 27 | 9 34 | 13 50 | 0s58 | 4 25 | 0 18 | 20 57 | 1 9 | 19 48 | 1 34 | 24 13 | 0 44 | 8 47 | 2 8 | 24 5 | 0 23 | 23 9 | 0 32 | 17 32 | 4 18 | 9 4 | 9 41 | 27 57 | | n.a. |
| S 28 | 9s12 | 18s56 | 2s 3 | 3s30 | 0n30 | 20s52 | 1n 4 | 19n57 | 1n34 | 24n13 | 0n44 | 8n50 | 2s 8 | 24n 5 | 0n23 | 23n10 | 0s32 | 17n32 | 4s18 | 9n 5 | 9n40 | 27s56 | | n.a. |

Julian Day Number = 1698808.5, Delta T = 03h06m39s
Ecliptic obliquity = 23°42'17, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°55'07, Lahiri = - 4°48'07 Julian Calendar 1 Feb. 62 BCE == Greg. Calendar 30 Jan. 062 BCE

The year -61 astronomical counting style corresponds to year 062 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 62 BCE
# geocentric

## MARCH 62 BCE (-61) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 10 22 17 | 7♓34'22 | 28♏56 | 21♓58 | 22♉52 | 22♉22 | 7°R34 | 27♈56 | 29°R23 | 1°R53 | 7♊19 | 23♈ 8 | 24♈39 | 14♉41 | n.a. | M 1 |
| T 2 | 10 26 13 | 8°33'31 | 11♐ 4 | 23°45 | 23°59 | 22°55 | 7♋33 | 28° 2 | 29♊22 | 1♋53 | 7°19 | 23°R 8 | 24°36 | 14°48 | n.a. | T 2 |
| W 3 | 10 30 10 | 9°32'38 | 23° 1 | 25°29 | 25° 6 | 23°27 | 7°32 | 28° 8 | 29°22 | 1°52 | 7°19 | 23° 7 | 24°32 | 14°55 | n.a. | W 3 |
| T 4 | 10 34 6 | 10°31'44 | 4♉53 | 27°10 | 26°13 | 24° 0 | 7°31 | 28°14 | 29°21 | 1°52 | 7°19 | 23° 4 | 24°29 | 15° 1 | n.a. | T 4 |
| F 5 | 10 38 3 | 11°30'47 | 16°45 | 28°46 | 27°20 | 24°33 | 7°31 | 28°20 | 29°21 | 1°51 | 7°19 | 22°59 | 24°26 | 15° 8 | n.a. | F 5 |
| S 6 | 10 41 59 | 12°29'49 | 28°39 | 0♈17 | 28°27 | 25° 6 | 7°31 | 28°26 | 29°21 | 1°51 | 7°20 | 22°53 | 24°23 | 15°15 | n.a. | S 6 |
| S 7 | 10 45 56 | 13°28'49 | 10♒40 | 1°44 | 29°35 | 25°39 | 7°D30 | 28°33 | 29°21 | 1°51 | 7°20 | 22°46 | 24°20 | 15°21 | n.a. | S 7 |
| M 8 | 10 49 52 | 14°27'46 | 22°49 | 3° 5 | 0♒42 | 26°12 | 7°31 | 28°39 | 29°20 | 1°51 | 7°20 | 22°39 | 24°16 | 15°28 | n.a. | M 8 |
| T 9 | 10 53 49 | 15°26'42 | 5♓ 9 | 4°22 | 1°50 | 26°45 | 7°31 | 28°45 | 29°20 | 1°50 | 7°21 | 22°32 | 24°13 | 15°35 | n.a. | T 9 |
| W10 | 10 57 46 | 16°25'35 | 17°40 | 5°32 | 2°58 | 27°18 | 7°31 | 28°52 | 29°D20 | 1°50 | 7°21 | 22°27 | 24°10 | 15°42 | n.a. | W10 |
| T 11 | 11 1 42 | 17°24'26 | 0♈23 | 6°37 | 4° 6 | 27°51 | 7°32 | 28°58 | 29°20 | 1°50 | 7°21 | 22°23 | 24° 7 | 15°48 | n.a. | T 11 |
| F 12 | 11 5 39 | 18°23'16 | 13°19 | 7°36 | 5°14 | 28°24 | 7°33 | 29° 5 | 29°20 | 1°50 | 7°22 | 22°21 | 24° 4 | 15°55 | n.a. | F 12 |
| S 13 | 11 9 35 | 19°22'03 | 26°26 | 8°29 | 6°22 | 28°58 | 7°34 | 29°12 | 29°20 | 1°50 | 7°22 | 22°D21 | 24° 1 | 16° 2 | n.a. | S 13 |
| S 14 | 11 13 32 | 20°20'47 | 9♉46 | 9°16 | 7°30 | 29°31 | 7°35 | 29°18 | 29°21 | 1°50 | 7°23 | 22°22 | 23°57 | 16° 8 | n.a. | S 14 |
| M15 | 11 17 28 | 21°19'30 | 23°18 | 9°56 | 8°38 | 0♊ 4 | 7°37 | 29°25 | 29°21 | 1°49 | 7°23 | 22°23 | 23°54 | 16°15 | n.a. | M15 |
| T 16 | 11 21 25 | 22°18'10 | 7♊ 4 | 10°30 | 9°47 | 0°38 | 7°38 | 29°32 | 29°21 | 1°D49 | 7°24 | 22°24 | 23°51 | 16°22 | n.a. | T 16 |
| W17 | 11 25 21 | 23°16'48 | 21° 2 | 10°58 | 10°55 | 1°12 | 7°40 | 29°39 | 29°21 | 1°49 | 7°24 | 22°R25 | 23°48 | 16°29 | n.a. | W17 |
| T 18 | 11 29 18 | 24°15'24 | 5♋12 | 11°19 | 12° 4 | 1°45 | 7°42 | 29°45 | 29°22 | 1°50 | 7°25 | 22°25 | 23°45 | 16°35 | n.a. | T 18 |
| F 19 | 11 33 14 | 25°13'57 | 19°33 | 11°34 | 13°13 | 2°19 | 7°44 | 29°52 | 29°22 | 1°50 | 7°25 | 22°23 | 23°41 | 16°42 | n.a. | F 19 |
| S 20 | 11 37 11 | 26°12'28 | 4♌ 1 | 11°43 | 14°21 | 2°53 | 7°46 | 29°59 | 29°23 | 1°50 | 7°26 | 22°20 | 23°38 | 16°49 | n.a. | S 20 |
| S 21 | 11 41 8 | 27°10'57 | 18°31 | 11°R46 | 15°30 | 3°27 | 7°49 | 0♉ 6 | 29°23 | 1°50 | 7°26 | 22°17 | 23°35 | 16°56 | n.a. | S 21 |
| M22 | 11 45 4 | 28° 9'23 | 2♍59 | 11°42 | 16°39 | 4° 1 | 7°52 | 0°13 | 29°24 | 1°50 | 7°27 | 22°14 | 23°32 | 17° 2 | n.a. | M22 |
| T 23 | 11 49 1 | 29° 7'48 | 17°18 | 11°33 | 17°48 | 4°35 | 7°55 | 0°21 | 29°25 | 1°50 | 7°28 | 22°11 | 23°29 | 17° 9 | n.a. | T 23 |
| W24 | 11 52 57 | 0♈ 6'10 | 1♎23 | 11°19 | 18°57 | 5° 9 | 7°58 | 0°28 | 29°25 | 1°51 | 7°28 | 22° 8 | 23°26 | 17°16 | n.a. | W24 |
| T 25 | 11 56 54 | 1° 4'30 | 15° 9 | 10°59 | 20° 6 | 5°43 | 8° 1 | 0°35 | 29°26 | 1°51 | 7°29 | 22° 7 | 23°22 | 17°22 | n.a. | T 25 |
| F 26 | 12 0 50 | 2° 2'48 | 28°35 | 10°35 | 21°16 | 6°17 | 8° 4 | 0°42 | 29°27 | 1°51 | 7°30 | 22°D 7 | 23°19 | 17°29 | n.a. | F 26 |
| S 27 | 12 4 47 | 3° 1'05 | 11♏40 | 10° 7 | 22°25 | 6°51 | 8° 8 | 0°49 | 29°28 | 1°51 | 7°30 | 22° 8 | 23°16 | 17°36 | n.a. | S 27 |
| S 28 | 12 8 43 | 3°59'20 | 24°23 | 9°35 | 23°35 | 7°25 | 8°11 | 0°57 | 29°29 | 1°52 | 7°31 | 22° 9 | 23°13 | 17°43 | n.a. | S 28 |
| M29 | 12 12 40 | 4°57'34 | 6♐49 | 9° 1 | 24°44 | 7°59 | 8°15 | 1° 4 | 29°30 | 1°52 | 7°32 | 22°11 | 23°10 | 17°49 | n.a. | M29 |
| T 30 | 12 16 37 | 5°55'46 | 19° 0 | 8°24 | 25°54 | 8°34 | 8°19 | 1°11 | 29°31 | 1°53 | 7°33 | 22°12 | 23° 7 | 17°56 | n.a. | T 30 |
| W31 | 12 20 33 | 6♈53'56 | 1♑ 0 | 7♈45 | 27♒ 3 | 9♊ 8 | 8♋24 | 1♉19 | 29♊32 | 1♋53 | 7♊33 | 22♈13 | 23♈ 3 | 18♑ 3 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| M 1 | 8s49 | 23s 5 | 3s 1 | 2s35 | 0n42 | 20s46 | 1n 0 | 20n 5 | 1n34 | 24n13 | 0n44 | 8n52 | 2s 8 | 24n 5 | 0n23 | 23n10 | 0s32 | 17n32 | 4s18 | 9n 5 | 9n39 | 27s55 | | | n.a. |
| T 2 | 8 27 | 26 8 | 3 50 | 1 41 | 0 54 | 20 39 | 0 55 | 20 14 | 1 34 | 24 13 | 0 44 | 8 54 | 2 8 | 24 5 | 0 23 | 23 10 | 0 32 | 17 32 | 4 18 | 9 5 | 9 38 | 27 55 | | | n.a. |
| W 3 | 8 5 | 27 58 | 4 28 | 0 48 | 1 7 | 20 32 | 0 50 | 20 22 | 1 34 | 24 13 | 0 44 | 8 57 | 2 8 | 24 5 | 0 23 | 23 10 | 0 32 | 17 33 | 4 17 | 9 5 | 9 37 | 27 54 | | | n.a. |
| T 4 | 7 42 | 28 30 | 4 54 | 0n 4 | 1 19 | 20 24 | 0 46 | 20 30 | 1 34 | 24 13 | 0 44 | 8 59 | 2 7 | 24 5 | 0 23 | 23 10 | 0 32 | 17 33 | 4 17 | 9 4 | 9 36 | 27 53 | | | n.a. |
| F 5 | 7 19 | 27 43 | 5 7 | 0 53 | 1 31 | 20 15 | 0 41 | 20 38 | 1 34 | 24 13 | 0 44 | 9 1 | 2 7 | 24 5 | 0 23 | 23 10 | 0 32 | 17 33 | 4 17 | 9 2 | 9 34 | 27 53 | | | n.a. |
| S 6 | 6 57 | 25 40 | 5 7 | 1 41 | 1 43 | 20 6 | 0 36 | 20 47 | 1 34 | 24 13 | 0 44 | 9 4 | 2 7 | 24 5 | 0 23 | 23 10 | 0 32 | 17 33 | 4 17 | 9 0 | 9 33 | 27 52 | | | n.a. |
| S 7 | 6 34 | 22 28 | 4 54 | 2 26 | 1 54 | 19 57 | 0 32 | 20 55 | 1 34 | 24 13 | 0 44 | 9 6 | 2 7 | 24 5 | 0 23 | 23 10 | 0 32 | 17 33 | 4 17 | 8 57 | 9 32 | 27 51 | | | n.a. |
| M 8 | 6 11 | 18 16 | 4 28 | 3 9 | 2 5 | 19 47 | 0 27 | 21 2 | 1 34 | 24 13 | 0 44 | 9 9 | 2 7 | 24 5 | 0 23 | 23 10 | 0 32 | 17 34 | 4 17 | 8 54 | 9 31 | 27 51 | | | n.a. |
| T 9 | 5 48 | 13 15 | 3 48 | 3 49 | 2 16 | 19 36 | 0 23 | 21 10 | 1 34 | 24 13 | 0 44 | 9 11 | 2 6 | 24 5 | 0 23 | 23 10 | 0 32 | 17 34 | 4 16 | 8 52 | 9 30 | 27 50 | | | n.a. |
| W10 | 5 25 | 7 38 | 2 57 | 4 27 | 2 26 | 19 25 | 0 18 | 21 18 | 1 34 | 24 13 | 0 44 | 9 14 | 2 6 | 24 5 | 0 23 | 23 10 | 0 32 | 17 34 | 4 16 | 8 50 | 9 28 | 27 49 | | | n.a. |
| T 11 | 5 2 | 1 37 | 1 57 | 5 1 | 2 35 | 19 13 | 0 14 | 21 26 | 1 34 | 24 13 | 0 44 | 9 16 | 2 6 | 24 5 | 0 23 | 23 10 | 0 32 | 17 34 | 4 16 | 8 48 | 9 27 | 27 49 | | | n.a. |
| F 12 | 4 38 | 4n34 | 0 49 | 5 33 | 2 43 | 19 1 | 0 10 | 21 33 | 1 34 | 24 13 | 0 44 | 9 19 | 2 6 | 24 5 | 0 23 | 23 10 | 0 32 | 17 34 | 4 16 | 8 48 | 9 26 | 27 48 | | | n.a. |
| S 13 | 4 15 | 10 39 | 0n22 | 6 1 | 2 51 | 18 48 | 0 6 | 21 41 | 1 34 | 24 13 | 0 44 | 9 21 | 2 6 | 24 5 | 0 23 | 23 10 | 0 32 | 17 35 | 4 16 | 8 47 | 9 25 | 27 47 | | | n.a. |
| S 14 | 3 52 | 16 23 | 1 34 | 6 25 | 2 58 | 18 35 | 0 1 | 21 48 | 1 34 | 24 13 | 0 44 | 9 24 | 2 5 | 24 5 | 0 23 | 23 10 | 0 32 | 17 35 | 4 16 | 8 48 | 9 24 | 27 47 | | | n.a. |
| M15 | 3 29 | 21 24 | 2 41 | 6 47 | 3 3 | 18 21 | 0s 3 | 21 55 | 1 34 | 24 13 | 0 44 | 9 26 | 2 5 | 24 5 | 0 22 | 23 10 | 0 32 | 17 35 | 4 16 | 8 48 | 9 23 | 27 46 | | | n.a. |
| T 16 | 3 5 | 25 21 | 3 40 | 7 4 | 3 8 | 18 6 | 0 7 | 22 2 | 1 34 | 24 12 | 0 44 | 9 29 | 2 5 | 24 5 | 0 22 | 23 10 | 0 32 | 17 35 | 4 15 | 8 49 | 9 21 | 27 45 | | | n.a. |
| W17 | 2 42 | 27 51 | 4 27 | 7 19 | 3 11 | 17 51 | 0 11 | 22 9 | 1 34 | 24 12 | 0 44 | 9 31 | 2 5 | 24 5 | 0 22 | 23 10 | 0 31 | 17 35 | 4 15 | 8 49 | 9 20 | 27 44 | | | n.a. |
| T 18 | 2 18 | 28 35 | 4 59 | 7 29 | 3 14 | 17 36 | 0 15 | 22 16 | 1 34 | 24 12 | 0 43 | 9 34 | 2 5 | 24 5 | 0 22 | 23 10 | 0 31 | 17 36 | 4 15 | 8 49 | 9 19 | 27 44 | | | n.a. |
| F 19 | 1 55 | 27 25 | 5 13 | 7 36 | 3 15 | 17 20 | 0 18 | 22 23 | 1 34 | 24 12 | 0 43 | 9 37 | 2 5 | 24 5 | 0 22 | 23 10 | 0 31 | 17 36 | 4 15 | 8 48 | 9 18 | 27 43 | | | n.a. |
| S 20 | 1 31 | 24 25 | 5 7 | 7 39 | 3 14 | 17 4 | 0 22 | 22 30 | 1 34 | 24 12 | 0 43 | 9 39 | 2 4 | 24 5 | 0 22 | 23 10 | 0 31 | 17 36 | 4 15 | 8 47 | 9 17 | 27 42 | | | n.a. |
| S 21 | 1 8 | 19 53 | 4 41 | 7 39 | 3 13 | 16 47 | 0 26 | 22 36 | 1 33 | 24 12 | 0 43 | 9 42 | 2 4 | 24 5 | 0 22 | 23 10 | 0 31 | 17 36 | 4 15 | 8 46 | 9 15 | 27 41 | | | n.a. |
| M22 | 0 44 | 14 13 | 3 58 | 7 35 | 3 10 | 16 29 | 0 30 | 22 43 | 1 33 | 24 11 | 0 43 | 9 45 | 2 4 | 24 5 | 0 22 | 23 10 | 0 31 | 17 37 | 4 14 | 8 45 | 9 14 | 27 40 | | | n.a. |
| T 23 | 0 21 | 7 49 | 3 0 | 7 27 | 3 5 | 16 11 | 0 33 | 22 49 | 1 33 | 24 11 | 0 43 | 9 47 | 2 4 | 24 5 | 0 22 | 23 10 | 0 31 | 17 37 | 4 14 | 8 44 | 9 13 | 27 40 | | | n.a. |
| W24 | 0n 2 | 1 9 | 1 52 | 7 16 | 2 59 | 15 53 | 0 37 | 22 55 | 1 33 | 24 11 | 0 43 | 9 50 | 2 4 | 24 5 | 0 22 | 23 10 | 0 31 | 17 37 | 4 14 | 8 43 | 9 12 | 27 39 | | | n.a. |
| T 25 | 0 26 | 5s27 | 0 38 | 7 1 | 2 52 | 15 34 | 0 40 | 23 1 | 1 33 | 24 11 | 0 43 | 9 52 | 2 4 | 24 5 | 0 22 | 23 10 | 0 31 | 17 37 | 4 14 | 8 42 | 9 11 | 27 38 | | | n.a. |
| F 26 | 0 49 | 11 39 | 0s36 | 6 44 | 2 43 | 15 15 | 0 43 | 23 7 | 1 33 | 24 11 | 0 43 | 9 55 | 2 3 | 24 5 | 0 22 | 23 10 | 0 31 | 17 38 | 4 14 | 8 42 | 9 9 | 27 37 | | | n.a. |
| S 27 | 1 13 | 17 10 | 1 46 | 6 23 | 2 33 | 14 56 | 0 47 | 23 13 | 1 33 | 24 10 | 0 43 | 9 58 | 2 3 | 24 5 | 0 22 | 23 10 | 0 31 | 17 38 | 4 14 | 8 43 | 9 8 | 27 36 | | | n.a. |
| S 28 | 1 36 | 21 48 | 2 49 | 6 0 | 2 22 | 14 36 | 0 50 | 23 19 | 1 33 | 24 10 | 0 43 | 10 0 | 2 3 | 24 5 | 0 22 | 23 10 | 0 31 | 17 38 | 4 14 | 8 43 | 9 7 | 27 36 | | | n.a. |
| M29 | 1 59 | 25 20 | 3 42 | 5 35 | 2 9 | 14 15 | 0 53 | 23 24 | 1 33 | 24 10 | 0 43 | 10 3 | 2 3 | 24 5 | 0 22 | 23 10 | 0 31 | 17 38 | 4 13 | 8 44 | 9 6 | 27 35 | | | n.a. |
| T 30 | 2 23 | 27 38 | 4 24 | 5 8 | 1 56 | 13 54 | 0 56 | 23 30 | 1 32 | 24 10 | 0 43 | 10 6 | 2 3 | 24 5 | 0 22 | 23 10 | 0 31 | 17 39 | 4 13 | 8 44 | 9 5 | 27 34 | | | n.a. |
| W31 | 2n46 | 28s36 | 4s54 | 4n39 | 1n41 | 13s33 | 0s59 | 23n35 | 1n32 | 24n 9 | 0n43 | 10n 9 | 2s 3 | 24n 5 | 0n22 | 23n10 | 0s31 | 17n39 | 4s13 | 8n45 | 9n 4 | 27s33 | | | n.a. |

Julian Day Number = 1698836.5, Delta T = 03h06m38s
Ecliptic obliquity = 23°42'18, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°55'03, Lahiri = - 4°48'03 Julian Calendar 1 March 62 BCE == Greg. Calendar 27 Feb. 062 BCE

The year -61 astronomical counting style corresponds to year 062 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 62 BCE
# geocentric

## APRIL 62 BCE (-61) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 24 30 | 7♈52'05 | 12♉54 | 7°R 6 | 28♒13 | 9♊42 | 8♋28 | 1♌26 | 29♊33 | 1♋54 | 7♊34 | 22°R13 | 23♈ 0 | 18♉ 9 | n.a. | T 1 |
| F 2 | 12 28 26 | 8°50'12 | 24°48 | 6♈27 | 29°23 | 10°17 | 8°33 | 1°34 | 29°34 | 1°54 | 7°35 | 22♈12 | 22°57 | 18°16 | n.a. | F 2 |
| S 3 | 12 32 23 | 9°48'17 | 6♒44 | 5°48 | 0♓33 | 10°51 | 8°37 | 1°41 | 29°35 | 1°55 | 7°36 | 22°11 | 22°54 | 18°23 | n.a. | S 3 |
| S 4 | 12 36 19 | 10°46'21 | 18°48 | 5°10 | 1°43 | 11°26 | 8°42 | 1°49 | 29°36 | 1°55 | 7°37 | 22°10 | 22°51 | 18°30 | n.a. | S 4 |
| M 5 | 12 40 16 | 11°44'24 | 1♓ 2 | 4°35 | 2°52 | 12° 1 | 8°47 | 1°56 | 29°38 | 1°56 | 7°38 | 22° 8 | 22°47 | 18°36 | n.a. | M 5 |
| T 6 | 12 44 12 | 12°42'25 | 13°30 | 4° 1 | 4° 3 | 12°35 | 8°52 | 2° 4 | 29°39 | 1°57 | 7°39 | 22° 7 | 22°44 | 18°43 | n.a. | T 6 |
| W 7 | 12 48 9 | 13°40'24 | 26°14 | 3°31 | 5°13 | 13°10 | 8°58 | 2°11 | 29°40 | 1°57 | 7°40 | 22° 6 | 22°41 | 18°50 | n.a. | W 7 |
| T 8 | 12 52 6 | 14°38'22 | 9♈15 | 3° 4 | 6°23 | 13°45 | 9° 3 | 2°19 | 29°42 | 1°58 | 7°41 | 22° 5 | 22°38 | 18°57 | n.a. | T 8 |
| F 9 | 12 56 2 | 15°36'18 | 22°31 | 2°41 | 7°33 | 14°20 | 9° 9 | 2°26 | 29°43 | 1°59 | 7°42 | 22°D 5 | 22°35 | 19° 3 | n.a. | F 9 |
| S 10 | 12 59 59 | 16°34'12 | 6♉ 3 | 2°22 | 8°43 | 14°54 | 9°15 | 2°34 | 29°45 | 2° 0 | 7°43 | 22° 5 | 22°32 | 19°10 | n.a. | S 10 |
| S 11 | 13 3 55 | 17°32'05 | 19°49 | 2° 7 | 9°53 | 15°29 | 9°21 | 2°42 | 29°47 | 2° 1 | 7°44 | 22° 5 | 22°28 | 19°17 | n.a. | S 11 |
| M12 | 13 7 52 | 18°29'56 | 3♊45 | 1°56 | 11° 4 | 16° 4 | 9°27 | 2°49 | 29°48 | 2° 1 | 7°45 | 22° 6 | 22°25 | 19°23 | n.a. | M12 |
| T 13 | 13 11 48 | 19°27'46 | 17°50 | 1°50 | 12°14 | 16°39 | 9°33 | 2°57 | 29°50 | 2° 2 | 7°46 | 22° 6 | 22°22 | 19°30 | n.a. | T 13 |
| W14 | 13 15 45 | 20°25'33 | 2♋ 1 | 1°D49 | 13°25 | 17°14 | 9°39 | 3° 5 | 29°52 | 2° 3 | 7°47 | 22° 6 | 22°19 | 19°37 | n.a. | W14 |
| T 15 | 13 19 41 | 21°23'19 | 16°15 | 1°53 | 14°35 | 17°49 | 9°46 | 3°13 | 29°54 | 2° 4 | 7°48 | 22° 6 | 22°16 | 19°44 | n.a. | T 15 |
| F 16 | 13 23 38 | 22°21'03 | 0♌29 | 2° 1 | 15°46 | 18°24 | 9°53 | 3°20 | 29°55 | 2° 5 | 7°49 | 22° 6 | 22°13 | 19°50 | n.a. | F 16 |
| S 17 | 13 27 35 | 23°18'45 | 14°41 | 2°13 | 16°56 | 19° 0 | 9°59 | 3°28 | 29°57 | 2° 6 | 7°50 | 22° 6 | 22° 9 | 19°57 | n.a. | S 17 |
| S 18 | 13 31 31 | 24°16'26 | 28°48 | 2°30 | 18° 7 | 19°35 | 10° 6 | 3°36 | 29°59 | 2° 7 | 7°51 | 22° 7 | 22° 6 | 20° 4 | n.a. | S 18 |
| M19 | 13 35 28 | 25°14'04 | 12♍48 | 2°52 | 19°18 | 20°10 | 10°13 | 3°44 | 0♋ 1 | 2° 8 | 7°52 | 22° 7 | 22° 3 | 20°11 | n.a. | M19 |
| T 20 | 13 39 24 | 26°11'41 | 26°39 | 3°17 | 20°28 | 20°45 | 10°21 | 3°52 | 0° 3 | 2° 9 | 7°53 | 22° 7 | 22° 0 | 20°17 | n.a. | T 20 |
| W21 | 13 43 21 | 27° 9'17 | 10♎17 | 3°47 | 21°39 | 21°20 | 10°28 | 3°59 | 0° 5 | 2°11 | 7°54 | 22° 7 | 21°57 | 20°24 | n.a. | W21 |
| T 22 | 13 47 17 | 28° 6'51 | 23°42 | 4°22 | 22°50 | 21°56 | 10°35 | 4° 7 | 0° 7 | 2°12 | 7°56 | 22°R 7 | 21°53 | 20°31 | n.a. | T 22 |
| F 23 | 13 51 14 | 29° 4'24 | 6♏51 | 5° 0 | 24° 1 | 22°31 | 10°43 | 4°15 | 0°10 | 2°13 | 7°57 | 22° 7 | 21°50 | 20°37 | n.a. | F 23 |
| S 24 | 13 55 10 | 0♉ 1'55 | 19°43 | 5°41 | 25°11 | 23° 7 | 10°51 | 4°23 | 0°12 | 2°14 | 7°58 | 22° 7 | 21°47 | 20°44 | n.a. | S 24 |
| S 25 | 13 59 7 | 0°59'26 | 2♐21 | 6°27 | 26°22 | 23°42 | 10°59 | 4°31 | 0°14 | 2°15 | 7°59 | 22° 6 | 21°44 | 20°51 | n.a. | S 25 |
| M26 | 14 3 3 | 1°56'55 | 14°43 | 7°16 | 27°33 | 24°17 | 11° 6 | 4°39 | 0°16 | 2°17 | 8° 0 | 22° 4 | 21°41 | 20°58 | n.a. | M26 |
| T 27 | 14 7 0 | 2°54'23 | 26°53 | 8° 9 | 28°44 | 24°53 | 11°15 | 4°46 | 0°19 | 2°18 | 8° 2 | 22° 3 | 21°38 | 21° 4 | n.a. | T 27 |
| W28 | 14 10 57 | 3°51'51 | 8♑54 | 9° 5 | 29°55 | 25°28 | 11°23 | 4°54 | 0°21 | 2°19 | 8° 3 | 22° 2 | 21°34 | 21°11 | n.a. | W28 |
| T 29 | 14 14 53 | 4°49'18 | 20°49 | 10° 4 | 1♈ 6 | 26° 4 | 11°31 | 5° 2 | 0°23 | 2°21 | 8° 4 | 22° 1 | 21°31 | 21°18 | n.a. | T 29 |
| F 30 | 14 18 50 | 5♉46'43 | 2♒43 | 11♈ 7 | 2♈18 | 26♊40 | 11♋40 | 5♌10 | 0♋26 | 2♋22 | 8♊ 6 | 22°D 0 | 21♈28 | 21♉24 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3n 9 | 28s14 | 5s12 | 4n10 | 1n26 | 13s11 | 1s 2 | 23n40 | 1n32 | 24n 9 | 0n43 | 10n11 | 2s 3 | 24n 5 | 0n22 | 23n10 | 0s31 | 17n39 | 4s13 | 8n45 | 9n 2 | 27s32 | | n.a. |
| F 2 | 3 32 | 26 34 | 5 15 | 3 39 | 1 10 | 12 49 | 1 5 | 23 45 | 1 32 | 24 9 | 0 43 | 10 14 | 2 3 | 24 5 | 0 22 | 23 10 | 0 31 | 17 40 | 4 13 | 8 44 | 9 1 | 27 31 | | n.a. |
| S 3 | 3 56 | 23 43 | 5 6 | 3 9 | 0 53 | 12 27 | 1 7 | 23 50 | 1 32 | 24 8 | 0 43 | 10 17 | 2 2 | 24 5 | 0 22 | 23 10 | 0 31 | 17 40 | 4 13 | 8 44 | 9 0 | 27 30 | | n.a. |
| S 4 | 4 19 | 19 49 | 4 42 | 2 38 | 0 37 | 12 4 | 1 10 | 23 55 | 1 32 | 24 8 | 0 43 | 10 19 | 2 2 | 24 5 | 0 22 | 23 11 | 0 31 | 17 40 | 4 13 | 8 43 | 8 59 | 27 30 | | n.a. |
| M 5 | 4 42 | 15 3 | 4 6 | 2 8 | 0 20 | 11 41 | 1 12 | 24 0 | 1 32 | 24 8 | 0 43 | 10 22 | 2 2 | 24 5 | 0 22 | 23 11 | 0 31 | 17 40 | 4 12 | 8 43 | 8 58 | 27 29 | | n.a. |
| T 6 | 5 4 | 9 35 | 3 17 | 1 40 | 0 3 | 11 18 | 1 15 | 24 4 | 1 32 | 24 7 | 0 43 | 10 25 | 2 2 | 24 5 | 0 22 | 23 11 | 0 31 | 17 41 | 4 12 | 8 42 | 8 56 | 27 28 | | n.a. |
| W 7 | 5 27 | 3 37 | 2 18 | 1 12 | 0s14 | 10 54 | 1 17 | 24 9 | 1 31 | 24 7 | 0 43 | 10 28 | 2 2 | 24 5 | 0 22 | 23 11 | 0 31 | 17 41 | 4 12 | 8 42 | 8 55 | 27 27 | | n.a. |
| T 8 | 5 50 | 2n37 | 1 10 | 0 46 | 0 30 | 10 30 | 1 19 | 24 13 | 1 31 | 24 6 | 0 43 | 10 30 | 2 2 | 24 5 | 0 22 | 23 11 | 0 31 | 17 41 | 4 12 | 8 42 | 8 54 | 27 26 | | n.a. |
| F 9 | 6 13 | 8 54 | 0n 2 | 0 22 | 0 46 | 10 6 | 1 22 | 24 17 | 1 31 | 24 6 | 0 43 | 10 33 | 2 2 | 24 4 | 0 22 | 23 11 | 0 31 | 17 42 | 4 12 | 8 42 | 8 53 | 27 25 | | n.a. |
| S 10 | 6 35 | 14 53 | 1 17 | 0 0 | 1 2 | 9 41 | 1 24 | 24 21 | 1 31 | 24 6 | 0 43 | 10 36 | 2 2 | 24 4 | 0 22 | 23 11 | 0 31 | 17 42 | 4 12 | 8 42 | 8 52 | 27 24 | | n.a. |
| S 11 | 6 57 | 20 15 | 2 28 | 0s19 | 1 16 | 9 16 | 1 26 | 24 25 | 1 31 | 24 5 | 0 43 | 10 39 | 2 1 | 24 4 | 0 22 | 23 11 | 0 31 | 17 42 | 4 12 | 8 42 | 8 50 | 27 23 | | n.a. |
| M12 | 7 20 | 24 35 | 3 31 | 0 36 | 1 30 | 8 51 | 1 28 | 24 28 | 1 31 | 24 5 | 0 43 | 10 41 | 2 1 | 24 4 | 0 22 | 23 11 | 0 31 | 17 42 | 4 12 | 8 42 | 8 49 | 27 22 | | n.a. |
| T 13 | 7 42 | 27 29 | 4 22 | 0 51 | 1 44 | 8 25 | 1 30 | 24 32 | 1 31 | 24 4 | 0 43 | 10 44 | 2 1 | 24 4 | 0 22 | 23 11 | 0 31 | 17 43 | 4 11 | 8 42 | 8 48 | 27 21 | | n.a. |
| W14 | 8 4 | 28 39 | 4 58 | 1 2 | 1 56 | 8 0 | 1 31 | 24 35 | 1 30 | 24 4 | 0 43 | 10 47 | 2 1 | 24 4 | 0 22 | 23 11 | 0 31 | 17 43 | 4 11 | 8 42 | 8 47 | 27 20 | | n.a. |
| T 15 | 8 26 | 27 55 | 5 15 | 1 12 | 2 8 | 7 34 | 1 33 | 24 38 | 1 30 | 24 3 | 0 43 | 10 50 | 2 1 | 24 4 | 0 22 | 23 11 | 0 31 | 17 43 | 4 11 | 8 42 | 8 46 | 27 19 | | n.a. |
| F 16 | 8 48 | 25 22 | 5 13 | 1 18 | 2 18 | 7 8 | 1 35 | 24 41 | 1 30 | 24 3 | 0 43 | 10 52 | 2 1 | 24 4 | 0 22 | 23 11 | 0 31 | 17 44 | 4 11 | 8 42 | 8 44 | 27 18 | | n.a. |
| S 17 | 9 9 | 21 16 | 4 53 | 1 22 | 2 28 | 6 41 | 1 36 | 24 44 | 1 30 | 24 2 | 0 43 | 10 55 | 2 1 | 24 4 | 0 22 | 23 11 | 0 31 | 17 44 | 4 11 | 8 42 | 8 43 | 27 17 | | n.a. |
| S 18 | 9 31 | 15 59 | 4 14 | 1 23 | 2 37 | 6 15 | 1 38 | 24 47 | 1 30 | 24 2 | 0 43 | 10 58 | 2 1 | 24 4 | 0 22 | 23 11 | 0 31 | 17 44 | 4 11 | 8 42 | 8 42 | 27 16 | | n.a. |
| M19 | 9 52 | 9 55 | 3 21 | 1 22 | 2 45 | 5 48 | 1 39 | 24 49 | 1 30 | 24 1 | 0 43 | 11 0 | 2 1 | 24 4 | 0 22 | 23 11 | 0 31 | 17 44 | 4 11 | 8 42 | 8 41 | 27 15 | | n.a. |
| T 20 | 10 13 | 3 26 | 2 16 | 1 18 | 2 52 | 5 21 | 1 40 | 24 52 | 1 29 | 24 0 | 0 43 | 11 3 | 2 1 | 24 4 | 0 22 | 23 11 | 0 30 | 17 45 | 4 11 | 8 42 | 8 40 | 27 14 | | n.a. |
| W21 | 10 34 | 3s 7 | 1 5 | 1 12 | 2 58 | 4 54 | 1 41 | 24 54 | 1 29 | 24 0 | 0 43 | 11 6 | 2 1 | 24 4 | 0 22 | 23 11 | 0 30 | 17 45 | 4 10 | 8 42 | 8 38 | 27 13 | | n.a. |
| T 22 | 10 55 | 9 26 | 0s 9 | 1 3 | 3 3 | 4 26 | 1 42 | 24 56 | 1 29 | 23 59 | 0 43 | 11 9 | 2 1 | 24 4 | 0 22 | 23 11 | 0 30 | 17 45 | 4 10 | 8 43 | 8 37 | 27 12 | | n.a. |
| F 23 | 11 16 | 15 13 | 1 21 | 0 51 | 3 7 | 3 59 | 1 43 | 24 58 | 1 29 | 23 59 | 0 43 | 11 11 | 2 1 | 24 4 | 0 22 | 23 11 | 0 30 | 17 46 | 4 10 | 8 42 | 8 36 | 27 11 | | n.a. |
| S 24 | 11 36 | 20 13 | 2 27 | 0 38 | 3 11 | 3 31 | 1 44 | 25 0 | 1 29 | 23 58 | 0 43 | 11 14 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 46 | 4 10 | 8 42 | 8 35 | 27 10 | | n.a. |
| S 25 | 11 57 | 24 12 | 3 25 | 0 22 | 3 14 | 3 4 | 1 45 | 25 2 | 1 28 | 23 57 | 0 43 | 11 17 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 46 | 4 10 | 8 42 | 8 34 | 27 9 | | n.a. |
| M26 | 12 17 | 26 59 | 4 11 | 0 4 | 3 15 | 2 36 | 1 46 | 25 3 | 1 28 | 23 57 | 0 43 | 11 19 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 47 | 4 10 | 8 41 | 8 32 | 27 8 | | n.a. |
| T 27 | 12 37 | 28 26 | 4 46 | 0n16 | 3 16 | 2 8 | 1 46 | 25 4 | 1 28 | 23 56 | 0 43 | 11 22 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 47 | 4 10 | 8 41 | 8 31 | 27 7 | | n.a. |
| W28 | 12 57 | 28 31 | 5 8 | 0 38 | 3 17 | 1 40 | 1 47 | 25 5 | 1 28 | 23 55 | 0 43 | 11 25 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 47 | 4 10 | 8 40 | 8 30 | 27 6 | | n.a. |
| T 29 | 13 16 | 27 16 | 5 16 | 1 2 | 3 16 | 1 12 | 1 47 | 25 6 | 1 28 | 23 54 | 0 43 | 11 28 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 47 | 4 10 | 8 40 | 8 29 | 27 5 | | n.a. |
| F 30 | 13n36 | 24s48 | 5s10 | 1n28 | 3s15 | 0s43 | 1s48 | 25n 7 | 1n28 | 23n54 | 0n43 | 11n30 | 2s 0 | 24n 4 | 0n22 | 23n11 | 0s30 | 17n48 | 4s 9 | 8n40 | 8n28 | 27s 3 | | n.a. |

Julian Day Number = 1698867.5, Delta T = 03h06m37s
Ecliptic obliquity = 23°42'18, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°54'59, Lahiri = - 4°47'59 Julian Calendar 1 Apr. 62 BCE == Greg. Calendar 30 March 062 BCE

The year -61 astronomical counting style corresponds to year 062 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 62 BCE
# geocentric

## MAY 62 BCE (-61) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 14 22 46 | 6♉44'08 | 14♒39 | 12♈13 | 3♈29 | 27♊15 | 11♋48 | 5♉18 | 0♋28 | 2♋23 | 8♊ 7 | 22♈ 0 | 21♈25 | 21♑31 | n.a. | S 1 |
| S 2 | 14 26 43 | 7°41'32 | 26°43 | 13°22 | 4°40 | 27°51 | 11°57 | 5°26 | 0°31 | 2°25 | 8° 8 | 22° 1 | 21°22 | 21°38 | n.a. | S 2 |
| M 3 | 14 30 39 | 8°38'55 | 8♓59 | 14°34 | 5°51 | 28°27 | 12° 5 | 5°34 | 0°33 | 2°26 | 8° 9 | 22° 2 | 21°18 | 21°45 | n.a. | M 3 |
| T 4 | 14 34 36 | 9°36'18 | 21°31 | 15°48 | 7° 3 | 29° 2 | 12°14 | 5°41 | 0°36 | 2°28 | 8°11 | 22° 4 | 21°15 | 21°51 | n.a. | T 4 |
| W 5 | 14 38 33 | 10°33'39 | 4♈22 | 17° 6 | 8°14 | 29°38 | 12°23 | 5°49 | 0°38 | 2°29 | 8°12 | 22° 5 | 21°12 | 21°58 | n.a. | W 5 |
| T 6 | 14 42 29 | 11°31'00 | 17°35 | 18°26 | 9°25 | 0♋14 | 12°32 | 5°57 | 0°41 | 2°31 | 8°13 | 22°R 6 | 21° 9 | 22° 5 | n.a. | T 6 |
| F 7 | 14 46 26 | 12°28'20 | 1♉ 9 | 19°50 | 10°37 | 0°50 | 12°42 | 6° 5 | 0°44 | 2°32 | 8°15 | 22° 5 | 21° 6 | 22°12 | n.a. | F 7 |
| S 8 | 14 50 22 | 13°25'40 | 15° 4 | 21°16 | 11°48 | 1°26 | 12°51 | 6°13 | 0°47 | 2°34 | 8°16 | 22° 4 | 21° 3 | 22°18 | n.a. | S 8 |
| S 9 | 14 54 19 | 14°22'58 | 29°15 | 22°45 | 13° 0 | 2° 2 | 13° 0 | 6°21 | 0°49 | 2°36 | 8°18 | 22° 2 | 20°59 | 22°25 | n.a. | S 9 |
| M10 | 14 58 15 | 15°20'16 | 13♊40 | 24°16 | 14°11 | 2°38 | 13°10 | 6°28 | 0°52 | 2°37 | 8°19 | 21°59 | 20°56 | 22°32 | n.a. | M10 |
| T 11 | 15 2 12 | 16°17'33 | 28°11 | 25°51 | 15°23 | 3°13 | 13°19 | 6°36 | 0°55 | 2°39 | 8°20 | 21°56 | 20°53 | 22°38 | n.a. | T 11 |
| W12 | 15 6 8 | 17°14'49 | 12♋43 | 27°28 | 16°34 | 3°50 | 13°29 | 6°44 | 0°58 | 2°40 | 8°22 | 21°53 | 20°50 | 22°45 | n.a. | W12 |
| T 13 | 15 10 5 | 18°12'04 | 27°11 | 29° 7 | 17°46 | 4°26 | 13°39 | 6°52 | 1° 1 | 2°42 | 8°23 | 21°51 | 20°47 | 22°52 | n.a. | T 13 |
| F 14 | 15 14 2 | 19° 9'18 | 11♌30 | 0♌50 | 18°57 | 5° 2 | 13°49 | 7° 0 | 1° 4 | 2°44 | 8°25 | 21°49 | 20°44 | 22°59 | n.a. | F 14 |
| S 15 | 15 17 58 | 20° 6'31 | 25°37 | 2°35 | 20° 9 | 5°38 | 13°59 | 7° 7 | 1° 7 | 2°46 | 8°26 | 21°D49 | 20°40 | 23° 5 | n.a. | S 15 |
| S 16 | 15 21 55 | 21° 3'43 | 9♍31 | 4°22 | 21°21 | 6°14 | 14° 9 | 7°15 | 1°10 | 2°47 | 8°27 | 21°50 | 20°37 | 23°12 | n.a. | S 16 |
| M17 | 15 25 51 | 22° 0'54 | 23°11 | 6°12 | 22°32 | 6°50 | 14°19 | 7°23 | 1°13 | 2°49 | 8°29 | 21°52 | 20°34 | 23°19 | n.a. | M17 |
| T 18 | 15 29 48 | 22°58'04 | 6♎38 | 8° 5 | 23°44 | 7°26 | 14°29 | 7°30 | 1°16 | 2°51 | 8°30 | 21°53 | 20°31 | 23°26 | n.a. | T 18 |
| W19 | 15 33 44 | 23°55'13 | 19°51 | 10° 0 | 24°56 | 8° 3 | 14°40 | 7°38 | 1°19 | 2°53 | 8°32 | 21°R54 | 20°28 | 23°32 | n.a. | W19 |
| T 20 | 15 37 41 | 24°52'22 | 2♏52 | 11°57 | 26° 8 | 8°39 | 14°50 | 7°46 | 1°22 | 2°54 | 8°33 | 21°53 | 20°24 | 23°39 | n.a. | T 20 |
| F 21 | 15 41 37 | 25°49'30 | 15°41 | 13°57 | 27°19 | 9°15 | 15° 1 | 7°53 | 1°25 | 2°56 | 8°35 | 21°51 | 20°21 | 23°46 | n.a. | F 21 |
| S 22 | 15 45 34 | 26°46'38 | 28°17 | 15°59 | 28°31 | 9°51 | 15°11 | 8° 1 | 1°28 | 2°58 | 8°36 | 21°47 | 20°18 | 23°52 | n.a. | S 22 |
| S 23 | 15 49 31 | 27°43'46 | 10♐43 | 18° 3 | 29°43 | 10°28 | 15°22 | 8° 9 | 1°31 | 3° 0 | 8°37 | 21°42 | 20°15 | 23°59 | n.a. | S 23 |
| M24 | 15 53 27 | 28°40'53 | 22°58 | 20° 8 | 0♑55 | 11° 4 | 15°33 | 8°16 | 1°34 | 3° 2 | 8°39 | 21°36 | 20°12 | 24° 6 | n.a. | M24 |
| T 25 | 15 57 24 | 29°38'00 | 5♑ 3 | 22°15 | 2° 7 | 11°41 | 15°43 | 8°24 | 1°38 | 3° 4 | 8°40 | 21°29 | 20° 9 | 24°13 | n.a. | T 25 |
| W26 | 16 1 20 | 0♒35'07 | 17° 2 | 24°23 | 3°19 | 12°17 | 15°54 | 8°31 | 1°41 | 3° 6 | 8°42 | 21°23 | 20° 5 | 24°19 | n.a. | W26 |
| T 27 | 16 5 17 | 1°32'14 | 28°55 | 26°33 | 4°31 | 12°53 | 16° 5 | 8°39 | 1°44 | 3° 8 | 8°43 | 21°18 | 20° 2 | 24°26 | n.a. | T 27 |
| F 28 | 16 9 13 | 2°29'21 | 10♓48 | 28°43 | 5°43 | 13°30 | 16°16 | 8°46 | 1°48 | 3°10 | 8°45 | 21°13 | 19°59 | 24°33 | n.a. | F 28 |
| S 29 | 16 13 10 | 3°26'28 | 22°43 | 0♒53 | 6°55 | 14° 7 | 16°27 | 8°53 | 1°51 | 3°12 | 8°46 | 21°11 | 19°56 | 24°40 | n.a. | S 29 |
| S 30 | 16 17 6 | 4°23'35 | 4♓45 | 3° 4 | 8° 8 | 14°43 | 16°39 | 9° 1 | 1°54 | 3°14 | 8°48 | 21°D10 | 19°53 | 24°46 | n.a. | S 30 |
| M31 | 16 21 3 | 5♒20'42 | 16♓59 | 5♒15 | 9♉20 | 15♋20 | 16♋50 | 9♉ 8 | 1♋58 | 3♋16 | 8♊49 | 21♈11 | 19♈50 | 24♑53 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 13n55 | 21s15 | 4s52 | 1n55 | 3s13 | 0s15 | 1s48 | 25n 8 | 1n27 | 23n53 | 0n43 | 11n33 | 2s 0 | 24n 4 | 0n22 | 23n11 | 0s30 | 17n48 | 4s 9 | 8n40 | 8n26 | 27s 2 | | n.a. |
| S 2 | 14 14 | 16 48 | 4 20 | 2 25 | 3 10 | 0n13 | 1 48 | 25 8 | 1 27 | 23 52 | 0 43 | 11 36 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 48 | 4 9 | 8 40 | 8 25 | 27 1 | | n.a. |
| M 3 | 14 32 | 11 37 | 3 36 | 2 56 | 3 7 | 0 42 | 1 49 | 25 9 | 1 27 | 23 51 | 0 42 | 11 38 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 49 | 4 9 | 8 41 | 8 24 | 27 0 | | n.a. |
| T 4 | 14 51 | 5 51 | 2 41 | 3 28 | 3 3 | 1 10 | 1 49 | 25 9 | 1 27 | 23 50 | 0 42 | 11 41 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 49 | 4 9 | 8 41 | 8 23 | 26 59 | | n.a. |
| W 5 | 15 9 | 0n17 | 1 36 | 4 3 | 2 58 | 1 38 | 1 49 | 25 9 | 1 26 | 23 50 | 0 42 | 11 43 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 49 | 4 9 | 8 42 | 8 22 | 26 58 | | n.a. |
| T 6 | 15 27 | 6 36 | 0 25 | 4 38 | 2 53 | 2 7 | 1 48 | 25 9 | 1 26 | 23 49 | 0 42 | 11 46 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 50 | 4 9 | 8 42 | 8 20 | 26 57 | | n.a. |
| F 7 | 15 45 | 12 47 | 0n50 | 5 15 | 2 47 | 2 35 | 1 48 | 25 8 | 1 26 | 23 48 | 0 42 | 11 49 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 50 | 4 9 | 8 42 | 8 19 | 26 56 | | n.a. |
| S 8 | 16 3 | 18 29 | 2 3 | 5 54 | 2 41 | 3 4 | 1 48 | 25 8 | 1 26 | 23 47 | 0 42 | 11 51 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 50 | 4 9 | 8 41 | 8 18 | 26 54 | | n.a. |
| S 9 | 16 20 | 23 18 | 3 10 | 6 34 | 2 34 | 3 32 | 1 48 | 25 7 | 1 26 | 23 46 | 0 42 | 11 54 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 51 | 4 9 | 8 40 | 8 17 | 26 53 | | n.a. |
| M10 | 16 37 | 26 46 | 4 6 | 7 15 | 2 27 | 4 0 | 1 47 | 25 6 | 1 25 | 23 45 | 0 42 | 11 57 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 51 | 4 8 | 8 39 | 8 16 | 26 52 | | n.a. |
| T 11 | 16 54 | 28 29 | 4 47 | 7 57 | 2 19 | 4 29 | 1 47 | 25 5 | 1 25 | 23 44 | 0 42 | 11 59 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 51 | 4 8 | 8 38 | 8 14 | 26 51 | | n.a. |
| W12 | 17 10 | 28 13 | 5 9 | 8 40 | 2 10 | 4 57 | 1 46 | 25 4 | 1 25 | 23 43 | 0 42 | 12 2 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 51 | 4 8 | 8 37 | 8 13 | 26 50 | | n.a. |
| T 13 | 17 26 | 26 3 | 5 12 | 9 24 | 2 1 | 5 25 | 1 46 | 25 3 | 1 25 | 23 42 | 0 42 | 12 4 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 52 | 4 8 | 8 36 | 8 12 | 26 48 | | n.a. |
| F 14 | 17 42 | 22 14 | 4 55 | 10 9 | 1 52 | 5 53 | 1 45 | 25 1 | 1 25 | 23 41 | 0 42 | 12 7 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 52 | 4 8 | 8 36 | 8 11 | 26 47 | | n.a. |
| S 15 | 17 58 | 17 12 | 4 21 | 10 54 | 1 42 | 6 21 | 1 44 | 24 59 | 1 24 | 23 40 | 0 42 | 12 9 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 52 | 4 8 | 8 36 | 8 10 | 26 46 | | n.a. |
| S 16 | 18 13 | 11 21 | 3 31 | 11 40 | 1 32 | 6 49 | 1 43 | 24 57 | 1 24 | 23 39 | 0 42 | 12 12 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 53 | 4 8 | 8 36 | 8 8 | 26 45 | | n.a. |
| M17 | 18 28 | 5 2 | 2 31 | 12 27 | 1 22 | 7 17 | 1 42 | 24 55 | 1 24 | 23 38 | 0 42 | 12 14 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 53 | 4 8 | 8 37 | 8 7 | 26 44 | | n.a. |
| T 18 | 18 43 | 1s24 | 1 23 | 13 14 | 1 11 | 7 45 | 1 41 | 24 53 | 1 24 | 23 37 | 0 42 | 12 17 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 53 | 4 8 | 8 37 | 8 6 | 26 42 | | n.a. |
| W19 | 18 58 | 7 41 | 0 11 | 14 1 | 1 0 | 8 12 | 1 40 | 24 51 | 1 23 | 23 35 | 0 42 | 12 19 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 54 | 4 8 | 8 37 | 8 5 | 26 41 | | n.a. |
| T 20 | 19 12 | 13 32 | 1s 0 | 14 49 | 0 49 | 8 39 | 1 39 | 24 48 | 1 23 | 23 34 | 0 42 | 12 22 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 54 | 4 8 | 8 37 | 8 4 | 26 40 | | n.a. |
| F 21 | 19 26 | 18 43 | 2 6 | 15 36 | 0 38 | 9 7 | 1 38 | 24 45 | 1 23 | 23 33 | 0 42 | 12 24 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 54 | 4 8 | 8 36 | 8 2 | 26 39 | | n.a. |
| S 22 | 19 39 | 23 0 | 3 5 | 16 22 | 0 27 | 9 34 | 1 37 | 24 42 | 1 23 | 23 32 | 0 42 | 12 27 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 54 | 4 7 | 8 35 | 8 1 | 26 37 | | n.a. |
| S 23 | 19 52 | 26 10 | 3 54 | 17 8 | 0 16 | 10 1 | 1 35 | 24 39 | 1 22 | 23 31 | 0 42 | 12 29 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 55 | 4 7 | 8 33 | 8 0 | 26 36 | | n.a. |
| M24 | 20 5 | 28 2 | 4 32 | 17 54 | 0 5 | 10 27 | 1 34 | 24 36 | 1 22 | 23 29 | 0 42 | 12 32 | 2 0 | 24 4 | 0 22 | 23 11 | 0 30 | 17 55 | 4 7 | 8 31 | 7 59 | 26 35 | | n.a. |
| T 25 | 20 18 | 28 33 | 4 57 | 18 38 | 0n 6 | 10 54 | 1 33 | 24 33 | 1 22 | 23 28 | 0 42 | 12 34 | 2 0 | 24 4 | 0 22 | 23 10 | 0 30 | 17 55 | 4 7 | 8 28 | 7 57 | 26 33 | | n.a. |
| W26 | 20 30 | 27 42 | 5 8 | 19 21 | 0 17 | 11 20 | 1 31 | 24 29 | 1 22 | 23 27 | 0 42 | 12 37 | 2 0 | 24 4 | 0 22 | 23 10 | 0 30 | 17 56 | 4 7 | 8 26 | 7 56 | 26 32 | | n.a. |
| T 27 | 20 42 | 25 36 | 5 7 | 20 2 | 0 27 | 11 46 | 1 30 | 24 25 | 1 21 | 23 26 | 0 42 | 12 39 | 2 0 | 24 3 | 0 22 | 23 10 | 0 30 | 17 56 | 4 7 | 8 24 | 7 55 | 26 31 | | n.a. |
| F 28 | 20 53 | 22 23 | 4 52 | 20 42 | 0 37 | 12 12 | 1 28 | 24 21 | 1 21 | 23 24 | 0 42 | 12 41 | 2 0 | 24 3 | 0 22 | 23 10 | 0 30 | 17 56 | 4 7 | 8 22 | 7 54 | 26 30 | | n.a. |
| S 29 | 21 5 | 18 15 | 4 24 | 21 19 | 0 47 | 12 37 | 1 26 | 24 17 | 1 21 | 23 23 | 0 42 | 12 44 | 2 0 | 24 3 | 0 22 | 23 10 | 0 30 | 17 56 | 4 7 | 8 21 | 7 53 | 26 28 | | n.a. |
| S 30 | 21 15 | 13 21 | 3 45 | 21 55 | 0 56 | 13 2 | 1 25 | 24 13 | 1 21 | 23 21 | 0 42 | 12 46 | 2 0 | 24 3 | 0 22 | 23 10 | 0 30 | 17 57 | 4 7 | 8 21 | 7 51 | 26 27 | | n.a. |
| M31 | 21n26 | 7s52 | 2s54 | 22n28 | 1n 4 | 13n27 | 1s23 | 24n 9 | 1n20 | 23n20 | 0n42 | 12n48 | 2s 0 | 24n 3 | 0n22 | 23n10 | 0s30 | 17n57 | 4s 7 | 8n21 | 7n50 | 26s26 | | n.a. |

Julian Day Number = 1698897.5, Delta T = 03h06m36s
Ecliptic obliquity = 23°42'18, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°54'55, Lahiri = - 4°47'55 Julian Calendar 1 May 62 BCE == Greg. Calendar 29 Apr. 062 BCE

The year -61 astronomical counting style corresponds to year 062 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 62 BCE
# geocentric

## JUNE 62 BCE (-61) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 25 0 | 6♊17'49 | 29♓30 | 7♊26 | 10♉32 | 15♋56 | 17♋ 1 | 9♉16 | 2♋ 1 | 3♋18 | 8♊51 | 21♈12 | 19♈46 | 25♑ 0 | n.a. | T 1 |
| W 2 | 16 28 56 | 7°14'57 | 12♈22 | 9°36 | 11°44 | 16°33 | 17°13 | 9°23 | 2° 4 | 3°20 | 8°52 | 21°13 | 19°43 | 25° 6 | n.a. | W 2 |
| T 3 | 16 32 53 | 8°12'05 | 25°39 | 11°45 | 12°57 | 17°10 | 17°24 | 9°30 | 2° 8 | 3°22 | 8°54 | 21°R14 | 19°40 | 25°13 | n.a. | T 3 |
| F 4 | 16 36 49 | 9° 9'12 | 9♉22 | 13°53 | 14° 9 | 17°46 | 17°36 | 9°37 | 2°11 | 3°24 | 8°55 | 21°12 | 19°37 | 25°20 | n.a. | F 4 |
| S 5 | 16 40 46 | 10° 6'21 | 23°30 | 16° 0 | 15°21 | 18°23 | 17°47 | 9°44 | 2°15 | 3°26 | 8°57 | 21° 9 | 19°34 | 25°27 | n.a. | S 5 |
| S 6 | 16 44 42 | 11° 3'29 | 8♊ 2 | 18° 5 | 16°34 | 19° 0 | 17°59 | 9°52 | 2°18 | 3°28 | 8°58 | 21° 3 | 19°30 | 25°33 | n.a. | S 6 |
| M 7 | 16 48 39 | 12° 0'38 | 22°50 | 20° 9 | 17°46 | 19°37 | 18°10 | 9°59 | 2°22 | 3°30 | 9° 0 | 20°56 | 19°27 | 25°40 | n.a. | M 7 |
| T 8 | 16 52 36 | 12°57'47 | 7♋47 | 22°12 | 18°58 | 20°14 | 18°22 | 10° 6 | 2°25 | 3°32 | 9° 1 | 20°49 | 19°24 | 25°47 | n.a. | T 8 |
| W 9 | 16 56 32 | 13°54'56 | 22°44 | 24°13 | 20°11 | 20°51 | 18°34 | 10°13 | 2°29 | 3°34 | 9° 3 | 20°41 | 19°21 | 25°53 | n.a. | W 9 |
| T 10 | 17 0 29 | 14°52'04 | 7♌31 | 26°12 | 21°23 | 21°28 | 18°46 | 10°20 | 2°32 | 3°36 | 9° 4 | 20°35 | 19°18 | 26° 0 | n.a. | T 10 |
| F 11 | 17 4 25 | 15°49'13 | 22° 3 | 28° 9 | 22°36 | 22° 5 | 18°58 | 10°27 | 2°36 | 3°39 | 9° 6 | 20°31 | 19°15 | 26° 7 | n.a. | F 11 |
| S 12 | 17 8 22 | 16°46'22 | 6♍15 | 0♋ 5 | 23°49 | 22°42 | 19°10 | 10°34 | 2°39 | 3°41 | 9° 7 | 20°28 | 19°11 | 26°14 | n.a. | S 12 |
| S 13 | 17 12 18 | 17°43'30 | 20° 6 | 1°58 | 25° 1 | 23°19 | 19°22 | 10°40 | 2°43 | 3°43 | 9° 9 | 20°D28 | 19° 8 | 26°20 | n.a. | S 13 |
| M14 | 17 16 15 | 18°40'39 | 3♎37 | 3°50 | 26°14 | 23°56 | 19°34 | 10°47 | 2°46 | 3°45 | 9°10 | 20°28 | 19° 5 | 26°27 | n.a. | M14 |
| T 15 | 17 20 11 | 19°37'48 | 16°49 | 5°40 | 27°26 | 24°33 | 19°46 | 10°54 | 2°50 | 3°47 | 9°12 | 20°R29 | 19° 2 | 26°34 | n.a. | T 15 |
| W16 | 17 24 8 | 20°34'57 | 29°45 | 7°28 | 28°39 | 25°10 | 19°58 | 11° 1 | 2°54 | 3°49 | 9°13 | 20°29 | 18°59 | 26°41 | n.a. | W16 |
| T 17 | 17 28 5 | 21°32'06 | 12♏27 | 9°14 | 29°52 | 25°47 | 20°10 | 11° 7 | 2°57 | 3°52 | 9°14 | 20°27 | 18°56 | 26°47 | n.a. | T 17 |
| F 18 | 17 32 1 | 22°29'15 | 24°58 | 10°58 | 1♊ 5 | 26°24 | 20°23 | 11°14 | 3° 1 | 3°54 | 9°16 | 20°22 | 18°52 | 26°54 | n.a. | F 18 |
| S 19 | 17 35 58 | 23°26'25 | 7♐19 | 12°41 | 2°17 | 27° 1 | 20°35 | 11°20 | 3° 5 | 3°56 | 9°17 | 20°15 | 18°49 | 27° 1 | n.a. | S 19 |
| S 20 | 17 39 54 | 24°23'36 | 19°32 | 14°21 | 3°30 | 27°39 | 20°47 | 11°27 | 3° 8 | 3°58 | 9°19 | 20° 5 | 18°46 | 27° 7 | n.a. | S 20 |
| M21 | 17 43 51 | 25°20'47 | 1♑37 | 16° 0 | 4°43 | 28°16 | 21° 0 | 11°33 | 3°12 | 4° 0 | 9°20 | 19°54 | 18°43 | 27°14 | n.a. | M21 |
| T 22 | 17 47 47 | 26°17'59 | 13°37 | 17°36 | 5°56 | 28°53 | 21°12 | 11°40 | 3°15 | 4° 3 | 9°22 | 19°42 | 18°40 | 27°21 | n.a. | T 22 |
| W23 | 17 51 44 | 27°15'11 | 25°32 | 19°11 | 7° 9 | 29°31 | 21°25 | 11°46 | 3°19 | 4° 5 | 9°23 | 19°30 | 18°36 | 27°28 | n.a. | W23 |
| T 24 | 17 55 41 | 28°12'24 | 7♒24 | 20°44 | 8°22 | 0♌ 8 | 21°37 | 11°52 | 3°23 | 4° 7 | 9°25 | 19°20 | 18°33 | 27°34 | n.a. | T 24 |
| F 25 | 17 59 37 | 29° 9'38 | 19°15 | 22°15 | 9°35 | 0°45 | 21°50 | 11°59 | 3°26 | 4° 9 | 9°26 | 19°11 | 18°30 | 27°41 | n.a. | F 25 |
| S 26 | 18 3 34 | 0♋ 6'53 | 1♓ 9 | 23°44 | 10°48 | 1°23 | 22° 2 | 12° 5 | 3°30 | 4°11 | 9°27 | 19° 5 | 18°27 | 27°48 | n.a. | S 26 |
| S 27 | 18 7 30 | 1° 4'09 | 13°10 | 25°11 | 12° 1 | 2° 0 | 22°15 | 12°11 | 3°34 | 4°14 | 9°29 | 19° 2 | 18°24 | 27°55 | n.a. | S 27 |
| M28 | 18 11 27 | 2° 1'26 | 25°22 | 26°37 | 13°14 | 2°38 | 22°27 | 12°17 | 3°37 | 4°16 | 9°30 | 19° 0 | 18°21 | 28° 1 | n.a. | M28 |
| T 29 | 18 15 23 | 2°58'44 | 7♈49 | 28° 0 | 14°27 | 3°15 | 22°40 | 12°23 | 3°41 | 4°18 | 9°32 | 19°D 0 | 18°17 | 28° 8 | n.a. | T 29 |
| W30 | 18 19 20 | 3♋56'03 | 20♈38 | 29♋21 | 15♊41 | 3♌53 | 22♋53 | 12♉29 | 3♋45 | 4♋20 | 9♊33 | 19°R 0 | 18♈14 | 28♑15 | n.a. | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21n36 | 1s57 | 1s55 | 22n59 | 1n12 | 13n52 | 1s21 | 24n 4 | 1n20 | 23n19 | 0n43 | 12n51 | 2s 0 | 24n 3 | 0n22 | 23n10 | 0s30 | 17n57 | 4s 7 | 8n22 | 7n49 | 26s24 | | n.a. |
| W 2 | 21 46 | 4n12 | 0 48 | 23 27 | 1 20 | 14 16 | 1 19 | 23 59 | 1 20 | 23 17 | 0 43 | 12 53 | 2 0 | 24 3 | 0 22 | 23 10 | 0 29 | 17 58 | 4 7 | 8 22 | 7 48 | 26 23 | | n.a. |
| T 3 | 21 55 | 10 23 | 0n24 | 23 52 | 1 26 | 14 40 | 1 17 | 23 54 | 1 20 | 23 16 | 0 43 | 12 55 | 2 0 | 24 3 | 0 22 | 23 10 | 0 29 | 17 58 | 4 7 | 8 22 | 7 47 | 26 22 | | n.a. |
| F 4 | 22 4 | 16 17 | 1 36 | 24 15 | 1 32 | 15 4 | 1 15 | 23 49 | 1 19 | 23 14 | 0 43 | 12 57 | 2 0 | 24 3 | 0 22 | 23 10 | 0 29 | 17 58 | 4 7 | 8 22 | 7 45 | 26 20 | | n.a. |
| S 5 | 22 13 | 21 31 | 2 45 | 24 35 | 1 38 | 15 27 | 1 13 | 23 44 | 1 19 | 23 13 | 0 43 | 13 0 | 2 0 | 24 3 | 0 22 | 23 10 | 0 29 | 17 58 | 4 7 | 8 20 | 7 44 | 26 19 | | n.a. |
| S 6 | 22 21 | 25 35 | 3 44 | 24 52 | 1 42 | 15 50 | 1 11 | 23 38 | 1 19 | 23 11 | 0 43 | 13 2 | 2 0 | 24 3 | 0 22 | 23 10 | 0 29 | 17 59 | 4 7 | 8 18 | 7 43 | 26 17 | | n.a. |
| M 7 | 22 29 | 28 0 | 4 30 | 25 6 | 1 46 | 16 13 | 1 9 | 23 33 | 1 19 | 23 10 | 0 43 | 13 4 | 2 0 | 24 3 | 0 22 | 23 10 | 0 29 | 17 59 | 4 7 | 8 16 | 7 42 | 26 16 | | n.a. |
| T 8 | 22 36 | 28 26 | 4 58 | 25 17 | 1 49 | 16 35 | 1 7 | 23 27 | 1 18 | 23 8 | 0 43 | 13 6 | 2 0 | 24 3 | 0 22 | 23 10 | 0 29 | 17 59 | 4 6 | 8 13 | 7 40 | 26 15 | | n.a. |
| W 9 | 22 43 | 26 47 | 5 6 | 25 26 | 1 52 | 16 57 | 1 5 | 23 21 | 1 18 | 23 6 | 0 43 | 13 8 | 2 1 | 24 3 | 0 22 | 23 10 | 0 29 | 18 0 | 4 6 | 8 10 | 7 39 | 26 13 | | n.a. |
| T 10 | 22 50 | 23 18 | 4 53 | 25 32 | 1 53 | 17 18 | 1 3 | 23 15 | 1 18 | 23 5 | 0 43 | 13 10 | 2 1 | 24 3 | 0 22 | 23 10 | 0 29 | 18 0 | 4 6 | 8 7 | 7 38 | 26 12 | | n.a. |
| F 11 | 22 56 | 18 25 | 4 21 | 25 36 | 1 55 | 17 39 | 1 1 | 23 9 | 1 17 | 23 3 | 0 43 | 13 13 | 2 1 | 24 3 | 0 22 | 23 10 | 0 29 | 18 0 | 4 6 | 8 6 | 7 37 | 26 10 | | n.a. |
| S 12 | 23 2 | 12 37 | 3 34 | 25 37 | 1 55 | 18 0 | 0 58 | 23 2 | 1 17 | 23 1 | 0 43 | 13 15 | 2 1 | 24 3 | 0 22 | 23 10 | 0 29 | 18 0 | 4 6 | 8 5 | 7 36 | 26 9 | | n.a. |
| S 13 | 23 8 | 6 20 | 2 35 | 25 36 | 1 55 | 18 20 | 0 56 | 22 56 | 1 17 | 23 0 | 0 43 | 13 17 | 2 1 | 24 3 | 0 22 | 23 10 | 0 29 | 18 1 | 4 6 | 8 5 | 7 34 | 26 7 | | n.a. |
| M14 | 23 13 | 0s 6 | 1 29 | 25 33 | 1 54 | 18 39 | 0 54 | 22 49 | 1 17 | 22 58 | 0 43 | 13 19 | 2 1 | 24 2 | 0 22 | 23 10 | 0 29 | 18 1 | 4 6 | 8 5 | 7 33 | 26 6 | | n.a. |
| T 15 | 23 18 | 6 23 | 0 20 | 25 27 | 1 52 | 18 58 | 0 51 | 22 42 | 1 16 | 22 56 | 0 43 | 13 21 | 2 1 | 24 2 | 0 22 | 23 10 | 0 29 | 18 1 | 4 6 | 8 5 | 7 32 | 26 5 | | n.a. |
| W16 | 23 22 | 12 16 | 0s49 | 25 20 | 1 50 | 19 17 | 0 49 | 22 35 | 1 16 | 22 54 | 0 43 | 13 23 | 2 1 | 24 2 | 0 22 | 23 10 | 0 29 | 18 1 | 4 6 | 8 5 | 7 31 | 26 3 | | n.a. |
| T 17 | 23 26 | 17 33 | 1 54 | 25 10 | 1 48 | 19 35 | 0 47 | 22 28 | 1 16 | 22 53 | 0 43 | 13 25 | 2 1 | 24 2 | 0 22 | 23 10 | 0 29 | 18 2 | 4 6 | 8 4 | 7 30 | 26 2 | | n.a. |
| F 18 | 23 29 | 22 1 | 2 53 | 24 59 | 1 44 | 19 53 | 0 44 | 22 20 | 1 15 | 22 51 | 0 43 | 13 27 | 2 1 | 24 2 | 0 22 | 23 10 | 0 29 | 18 2 | 4 6 | 8 3 | 7 28 | 26 0 | | n.a. |
| S 19 | 23 32 | 25 25 | 3 42 | 24 46 | 1 41 | 20 10 | 0 42 | 22 13 | 1 15 | 22 49 | 0 43 | 13 29 | 2 1 | 24 2 | 0 22 | 23 10 | 0 29 | 18 2 | 4 6 | 8 0 | 7 27 | 25 59 | | n.a. |
| S 20 | 23 35 | 27 37 | 4 21 | 24 31 | 1 36 | 20 27 | 0 39 | 22 5 | 1 15 | 22 47 | 0 43 | 13 31 | 2 1 | 24 2 | 0 22 | 23 9 | 0 29 | 18 2 | 4 6 | 7 56 | 7 26 | 25 57 | | n.a. |
| M21 | 23 37 | 28 28 | 4 47 | 24 15 | 1 32 | 20 43 | 0 37 | 21 57 | 1 14 | 22 45 | 0 43 | 13 33 | 2 1 | 24 2 | 0 22 | 23 9 | 0 29 | 18 3 | 4 6 | 7 52 | 7 25 | 25 56 | | n.a. |
| T 22 | 23 39 | 27 58 | 5 0 | 23 57 | 1 26 | 20 58 | 0 34 | 21 49 | 1 14 | 22 43 | 0 43 | 13 34 | 2 2 | 24 2 | 0 22 | 23 9 | 0 29 | 18 3 | 4 6 | 7 47 | 7 23 | 25 54 | | n.a. |
| W23 | 23 41 | 26 11 | 5 0 | 23 39 | 1 21 | 21 13 | 0 32 | 21 41 | 1 14 | 22 41 | 0 43 | 13 36 | 2 2 | 24 2 | 0 22 | 23 9 | 0 29 | 18 3 | 4 6 | 7 43 | 7 22 | 25 53 | | n.a. |
| T 24 | 23 42 | 23 15 | 4 47 | 23 19 | 1 14 | 21 28 | 0 29 | 21 33 | 1 14 | 22 39 | 0 43 | 13 38 | 2 2 | 24 2 | 0 22 | 23 9 | 0 29 | 18 3 | 4 6 | 7 39 | 7 21 | 25 51 | | n.a. |
| F 25 | 23 42 | 19 21 | 4 22 | 22 58 | 1 8 | 21 42 | 0 27 | 21 24 | 1 13 | 22 37 | 0 43 | 13 40 | 2 2 | 24 2 | 0 22 | 23 9 | 0 29 | 18 4 | 4 6 | 7 36 | 7 20 | 25 50 | | n.a. |
| S 26 | 23 42 | 14 41 | 3 45 | 22 35 | 1 1 | 21 55 | 0 24 | 21 15 | 1 13 | 22 35 | 0 43 | 13 42 | 2 2 | 24 1 | 0 22 | 23 9 | 0 29 | 18 4 | 4 6 | 7 33 | 7 19 | 25 48 | | n.a. |
| S 27 | 23 42 | 9 25 | 2 58 | 22 12 | 0 53 | 22 8 | 0 22 | 21 7 | 1 13 | 22 33 | 0 43 | 13 44 | 2 2 | 24 1 | 0 22 | 23 9 | 0 29 | 18 4 | 4 6 | 7 32 | 7 17 | 25 47 | | n.a. |
| M28 | 23 41 | 3 43 | 2 2 | 21 49 | 0 46 | 22 20 | 0 19 | 20 58 | 1 12 | 22 31 | 0 43 | 13 45 | 2 2 | 24 1 | 0 22 | 23 9 | 0 29 | 18 4 | 4 6 | 7 31 | 7 16 | 25 45 | | n.a. |
| T 29 | 23 40 | 2n14 | 0 59 | 21 24 | 0 37 | 22 31 | 0 16 | 20 49 | 1 12 | 22 29 | 0 43 | 13 47 | 2 2 | 24 1 | 0 22 | 23 9 | 0 29 | 18 4 | 4 6 | 7 31 | 7 15 | 25 44 | | n.a. |
| W30 | 23n39 | 8n17 | 0n 9 | 20n59 | 0n29 | 22n42 | 0s14 | 20n39 | 1n12 | 22n27 | 0n43 | 13n49 | 2s 2 | 24n 1 | 0n22 | 23n 9 | 0s29 | 18n 5 | 4s 6 | 7n31 | 7n14 | 25s42 | | n.a. |

Julian Day Number = 1698928.5, Delta T = 03h06m35s
Ecliptic obliquity = 23°42'17, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°54'51, Lahiri = - 4°47'50 Julian Calendar 1 June 62 BCE == Greg. Calendar 30 May 062 BCE

The year -61 astronomical counting style corresponds to year 062 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 62 BCE
# geocentric

## JULY 62 BCE (-61) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 23 16 | 4♋53'24 | 3♉52 | 0♌40 | 16♊54 | 4♌31 | 23♋ 6 | 12♉35 | 3♋48 | 4♋23 | 9♊34 | 18°R59 | 18♈11 | 28♏21 | n.a. | T 1 |
| F 2 | 18 27 13 | 5°50'46 | 17°34 | 1°57 | 18° 7 | 5° 8 | 23°18 | 12°40 | 3°52 | 4°25 | 9°36 | 18♈57 | 18° 8 | 28°28 | n.a. | F 2 |
| S 3 | 18 31 10 | 6°48'08 | 1♊45 | 3°12 | 19°20 | 5°46 | 23°31 | 12°46 | 3°56 | 4°27 | 9°37 | 18°52 | 18° 5 | 28°35 | n.a. | S 3 |
| S 4 | 18 35 6 | 7°45'33 | 16°24 | 4°25 | 20°34 | 6°24 | 23°44 | 12°52 | 4° 0 | 4°29 | 9°38 | 18°44 | 18° 2 | 28°42 | n.a. | S 4 |
| M 5 | 18 39 3 | 8°42'58 | 1♋24 | 5°36 | 21°47 | 7° 1 | 23°57 | 12°57 | 4° 3 | 4°32 | 9°40 | 18°35 | 17°58 | 28°48 | n.a. | M 5 |
| T 6 | 18 42 59 | 9°40'24 | 16°37 | 6°44 | 23° 1 | 7°39 | 24°10 | 13° 3 | 4° 7 | 4°34 | 9°41 | 18°24 | 17°55 | 28°55 | n.a. | T 6 |
| W 7 | 18 46 56 | 10°37'52 | 1♌52 | 7°49 | 24°14 | 8°17 | 24°23 | 13° 8 | 4°11 | 4°36 | 9°42 | 18°14 | 17°52 | 29° 2 | n.a. | W 7 |
| T 8 | 18 50 52 | 11°35'20 | 16°57 | 8°53 | 25°27 | 8°55 | 24°35 | 13°14 | 4°14 | 4°38 | 9°44 | 18° 4 | 17°49 | 29° 8 | n.a. | T 8 |
| F 9 | 18 54 49 | 12°32'50 | 1♍45 | 9°53 | 26°41 | 9°33 | 24°48 | 13°19 | 4°18 | 4°40 | 9°45 | 17°58 | 17°46 | 29°15 | n.a. | F 9 |
| S 10 | 18 58 45 | 13°30'20 | 16° 8 | 10°51 | 27°55 | 10°11 | 25° 1 | 13°24 | 4°21 | 4°43 | 9°46 | 17°54 | 17°42 | 29°22 | n.a. | S 10 |
| S 11 | 19 2 42 | 14°27'51 | 0♎ 5 | 11°45 | 29° 8 | 10°49 | 25°14 | 13°29 | 4°25 | 4°45 | 9°48 | 17°52 | 17°39 | 29°29 | n.a. | S 11 |
| M12 | 19 6 39 | 15°25'23 | 13°36 | 12°37 | 0♋22 | 11°27 | 25°27 | 13°34 | 4°29 | 4°47 | 9°49 | 17°51 | 17°36 | 29°35 | n.a. | M12 |
| T 13 | 19 10 35 | 16°22'56 | 26°44 | 13°26 | 1°35 | 12° 5 | 25°40 | 13°39 | 4°32 | 4°49 | 9°50 | 17°51 | 17°33 | 29°42 | n.a. | T 13 |
| W14 | 19 14 32 | 17°20'30 | 9♏32 | 14°11 | 2°49 | 12°43 | 25°53 | 13°44 | 4°36 | 4°51 | 9°51 | 17°50 | 17°30 | 29°49 | n.a. | W14 |
| T 15 | 19 18 28 | 18°18'05 | 22° 4 | 14°52 | 4° 3 | 13°21 | 26° 6 | 13°49 | 4°40 | 4°54 | 9°53 | 17°47 | 17°27 | 29°56 | n.a. | T 15 |
| F 16 | 19 22 25 | 19°15'41 | 4♐23 | 15°30 | 5°16 | 13°59 | 26°19 | 13°54 | 4°43 | 4°56 | 9°54 | 17°42 | 17°23 | 0♒ 2 | n.a. | F 16 |
| S 17 | 19 26 21 | 20°13'18 | 16°33 | 16° 4 | 6°30 | 14°37 | 26°32 | 13°58 | 4°47 | 4°58 | 9°55 | 17°33 | 17°20 | 0° 9 | n.a. | S 17 |
| S 18 | 19 30 18 | 21°10'57 | 28°36 | 16°34 | 7°44 | 15°16 | 26°46 | 14° 3 | 4°50 | 5° 0 | 9°56 | 17°22 | 17°17 | 0°16 | n.a. | S 18 |
| M19 | 19 34 14 | 22° 8'37 | 10♑34 | 16°59 | 8°58 | 15°54 | 26°59 | 14° 8 | 4°54 | 5° 2 | 9°57 | 17° 9 | 17°14 | 0°22 | n.a. | M19 |
| T 20 | 19 38 11 | 23° 6'18 | 22°28 | 17°20 | 10°12 | 16°32 | 27°12 | 14°12 | 4°57 | 5° 4 | 9°58 | 16°55 | 17°11 | 0°29 | n.a. | T 20 |
| W21 | 19 42 8 | 24° 4'01 | 4♒21 | 17°36 | 11°26 | 17°10 | 27°25 | 14°16 | 5° 1 | 5° 7 | 10° 0 | 16°42 | 17° 8 | 0°36 | n.a. | W21 |
| T 22 | 19 46 4 | 25° 1'45 | 16°13 | 17°46 | 12°40 | 17°49 | 27°38 | 14°21 | 5° 5 | 5° 9 | 10° 1 | 16°29 | 17° 4 | 0°43 | n.a. | T 22 |
| F 23 | 19 50 1 | 25°59'31 | 28° 6 | 17°R52 | 13°54 | 18°27 | 27°51 | 14°25 | 5° 8 | 5°11 | 10° 2 | 16°19 | 17° 1 | 0°49 | n.a. | F 23 |
| S 24 | 19 53 57 | 26°57'19 | 10♓ 2 | 17°52 | 15° 8 | 19° 6 | 28° 4 | 14°29 | 5°12 | 5°13 | 10° 3 | 16°12 | 16°58 | 0°56 | n.a. | S 24 |
| S 25 | 19 57 54 | 27°55'08 | 22° 5 | 17°46 | 16°22 | 19°44 | 28°17 | 14°33 | 5°15 | 5°15 | 10° 4 | 16° 7 | 16°55 | 1° 3 | n.a. | S 25 |
| M26 | 20 1 50 | 28°52'59 | 4♈18 | 17°35 | 17°36 | 20°23 | 28°30 | 14°37 | 5°18 | 5°17 | 10° 5 | 16° 5 | 16°52 | 1° 9 | n.a. | M26 |
| T 27 | 20 5 47 | 29°50'52 | 16°45 | 17°17 | 18°50 | 21° 1 | 28°43 | 14°40 | 5°22 | 5°19 | 10° 6 | 16°D 5 | 16°48 | 1°16 | n.a. | T 27 |
| W28 | 20 9 43 | 0♌48'46 | 29°31 | 16°54 | 20° 4 | 21°40 | 28°56 | 14°44 | 5°25 | 5°21 | 10° 7 | 16°R 5 | 16°45 | 1°23 | n.a. | W28 |
| T 29 | 20 13 40 | 1°46'43 | 12♉39 | 16°25 | 21°18 | 22°18 | 29°10 | 14°48 | 5°29 | 5°23 | 10° 8 | 16° 4 | 16°42 | 1°30 | n.a. | T 29 |
| F 30 | 20 17 37 | 2°44'42 | 26°15 | 15°50 | 22°32 | 22°57 | 29°23 | 14°51 | 5°32 | 5°25 | 10° 9 | 16° 2 | 16°39 | 1°36 | n.a. | F 30 |
| S 31 | 20 21 33 | 3♌42'43 | 10♊19 | 15♌10 | 23♋47 | 23♌36 | 29♋36 | 14♉55 | 5♋35 | 5♋27 | 10♊10 | 15♈58 | 16♈36 | 1♒43 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| T 1 | 23n37 | 14n10 | 1n18 | 20n33 | 0n20 | 22n52 | 0s11 | 20n30 | 1n11 | 22n25 | 0n43 | 13n50 | 2s 3 | 24n 1 | 0n22 | 23n 9 | 0s29 | 18n 5 | 4s 6 | 7n31 | 7n12 | 25s40 | | | n.a. |
| F 2 | 23 34 | 19 34 | 2 25 | 20 7 | 0 11 | 23 1 | 0 9 | 20 20 | 1 11 | 22 23 | 0 43 | 13 52 | 2 3 | 24 1 | 0 22 | 23 9 | 0 29 | 18 5 | 4 6 | 7 30 | 7 11 | 25 39 | | | n.a. |
| S 3 | 23 32 | 24 6 | 3 25 | 19 41 | 0 1 | 23 10 | 0 6 | 20 11 | 1 11 | 22 21 | 0 43 | 13 54 | 2 3 | 24 1 | 0 22 | 23 9 | 0 29 | 18 5 | 4 6 | 7 28 | 7 10 | 25 37 | | | n.a. |
| S 4 | 23 28 | 27 13 | 4 14 | 19 14 | 0s 8 | 23 18 | 0 4 | 20 1 | 1 10 | 22 19 | 0 44 | 13 55 | 2 3 | 24 1 | 0 22 | 23 9 | 0 29 | 18 6 | 4 6 | 7 25 | 7 9 | 25 36 | | | n.a. |
| M 5 | 23 25 | 28 29 | 4 47 | 18 47 | 0 18 | 23 26 | 0 1 | 19 51 | 1 10 | 22 16 | 0 44 | 13 57 | 2 3 | 24 1 | 0 22 | 23 9 | 0 29 | 18 6 | 4 6 | 7 22 | 7 8 | 25 34 | | | n.a. |
| T 6 | 23 21 | 27 37 | 5 0 | 18 20 | 0 29 | 23 32 | 0n 1 | 19 41 | 1 10 | 22 14 | 0 44 | 13 58 | 2 3 | 24 0 | 0 22 | 23 9 | 0 29 | 18 6 | 4 6 | 7 17 | 7 6 | 25 32 | | | n.a. |
| W 7 | 23 16 | 24 42 | 4 52 | 17 53 | 0 39 | 23 39 | 0 4 | 19 31 | 1 9 | 22 12 | 0 44 | 14 0 | 2 3 | 24 0 | 0 22 | 23 8 | 0 29 | 18 6 | 4 6 | 7 13 | 7 5 | 25 31 | | | n.a. |
| T 8 | 23 12 | 20 6 | 4 24 | 17 26 | 0 50 | 23 44 | 0 6 | 19 20 | 1 9 | 22 10 | 0 44 | 14 1 | 2 3 | 24 0 | 0 22 | 23 8 | 0 29 | 18 6 | 4 6 | 7 10 | 7 4 | 25 29 | | | n.a. |
| F 9 | 23 6 | 14 21 | 3 38 | 16 59 | 1 1 | 23 49 | 0 9 | 19 10 | 1 9 | 22 7 | 0 44 | 14 3 | 2 4 | 24 0 | 0 22 | 23 8 | 0 29 | 18 7 | 4 6 | 7 7 | 7 3 | 25 28 | | | n.a. |
| S 10 | 23 1 | 7 58 | 2 39 | 16 33 | 1 12 | 23 53 | 0 11 | 18 59 | 1 8 | 22 5 | 0 44 | 14 4 | 2 4 | 24 0 | 0 22 | 23 8 | 0 29 | 18 7 | 4 6 | 7 6 | 7 1 | 25 26 | | | n.a. |
| S 11 | 22 55 | 1 23 | 1 32 | 16 7 | 1 24 | 23 56 | 0 14 | 18 48 | 1 8 | 22 3 | 0 44 | 14 6 | 2 4 | 24 0 | 0 22 | 23 8 | 0 29 | 18 7 | 4 6 | 7 5 | 7 0 | 25 24 | | | n.a. |
| M12 | 22 48 | 5s 5 | 0 22 | 15 41 | 1 35 | 23 58 | 0 16 | 18 37 | 1 8 | 22 0 | 0 44 | 14 7 | 2 4 | 24 0 | 0 22 | 23 8 | 0 29 | 18 7 | 4 6 | 7 5 | 6 59 | 25 23 | | | n.a. |
| T 13 | 22 41 | 11 9 | 0s47 | 15 17 | 1 47 | 24 0 | 0 19 | 18 26 | 1 7 | 21 58 | 0 44 | 14 8 | 2 4 | 24 0 | 0 22 | 23 8 | 0 29 | 18 7 | 4 6 | 7 5 | 6 58 | 25 21 | | | n.a. |
| W14 | 22 34 | 16 35 | 1 52 | 14 52 | 1 58 | 24 1 | 0 21 | 18 15 | 1 7 | 21 56 | 0 44 | 14 10 | 2 4 | 24 0 | 0 22 | 23 8 | 0 29 | 18 7 | 4 6 | 7 4 | 6 57 | 25 19 | | | n.a. |
| T 15 | 22 26 | 21 13 | 2 50 | 14 29 | 2 10 | 24 2 | 0 23 | 18 4 | 1 7 | 21 53 | 0 44 | 14 11 | 2 4 | 23 59 | 0 22 | 23 8 | 0 29 | 18 8 | 4 6 | 7 3 | 6 55 | 25 18 | | | n.a. |
| F 16 | 22 18 | 24 50 | 3 39 | 14 7 | 2 22 | 24 2 | 0 26 | 17 52 | 1 6 | 21 51 | 0 44 | 14 12 | 2 4 | 23 59 | 0 22 | 23 8 | 0 29 | 18 8 | 4 6 | 7 1 | 6 54 | 25 16 | | | n.a. |
| S 17 | 22 10 | 27 17 | 4 17 | 13 46 | 2 33 | 24 1 | 0 28 | 17 41 | 1 6 | 21 48 | 0 44 | 14 14 | 2 5 | 23 59 | 0 22 | 23 8 | 0 29 | 18 8 | 4 6 | 6 58 | 6 53 | 25 14 | | | n.a. |
| S 18 | 22 1 | 28 26 | 4 44 | 13 26 | 2 45 | 23 59 | 0 30 | 17 29 | 1 6 | 21 46 | 0 44 | 14 15 | 2 5 | 23 59 | 0 22 | 23 8 | 0 29 | 18 8 | 4 6 | 6 54 | 6 52 | 25 13 | | | n.a. |
| M19 | 21 52 | 28 13 | 4 57 | 13 7 | 2 56 | 23 56 | 0 33 | 17 17 | 1 5 | 21 43 | 0 44 | 14 16 | 2 5 | 23 59 | 0 22 | 23 8 | 0 29 | 18 8 | 4 6 | 6 49 | 6 50 | 25 11 | | | n.a. |
| T 20 | 21 42 | 26 42 | 4 58 | 12 50 | 3 7 | 23 53 | 0 35 | 17 5 | 1 5 | 21 41 | 0 45 | 14 17 | 2 5 | 23 59 | 0 22 | 23 8 | 0 29 | 18 8 | 4 6 | 6 43 | 6 49 | 25 9 | | | n.a. |
| W21 | 21 32 | 24 0 | 4 46 | 12 35 | 3 18 | 23 49 | 0 37 | 16 53 | 1 5 | 21 38 | 0 45 | 14 18 | 2 5 | 23 59 | 0 22 | 23 7 | 0 29 | 18 9 | 4 6 | 6 38 | 6 48 | 25 8 | | | n.a. |
| T 22 | 21 22 | 20 17 | 4 21 | 12 22 | 3 29 | 23 45 | 0 39 | 16 41 | 1 4 | 21 36 | 0 45 | 14 19 | 2 5 | 23 59 | 0 22 | 23 7 | 0 29 | 18 9 | 4 6 | 6 33 | 6 47 | 25 6 | | | n.a. |
| F 23 | 21 11 | 15 46 | 3 45 | 12 11 | 3 39 | 23 39 | 0 41 | 16 28 | 1 4 | 21 33 | 0 45 | 14 21 | 2 6 | 23 59 | 0 22 | 23 7 | 0 29 | 18 9 | 4 6 | 6 29 | 6 45 | 25 4 | | | n.a. |
| S 24 | 21 0 | 10 38 | 2 58 | 12 2 | 3 48 | 23 33 | 0 43 | 16 16 | 1 3 | 21 31 | 0 45 | 14 22 | 2 6 | 23 58 | 0 22 | 23 7 | 0 29 | 18 9 | 4 6 | 6 26 | 6 44 | 25 2 | | | n.a. |
| S 25 | 20 48 | 5 3 | 2 3 | 11 55 | 3 57 | 23 27 | 0 45 | 16 3 | 1 3 | 21 28 | 0 45 | 14 23 | 2 6 | 23 58 | 0 22 | 23 7 | 0 29 | 18 9 | 4 6 | 6 25 | 6 43 | 25 1 | | | n.a. |
| M26 | 20 37 | 0n47 | 1 2 | 11 51 | 4 5 | 23 19 | 0 47 | 15 51 | 1 3 | 21 25 | 0 45 | 14 24 | 2 6 | 23 58 | 0 22 | 23 7 | 0 29 | 18 9 | 4 6 | 6 24 | 6 42 | 24 59 | | | n.a. |
| T 27 | 20 24 | 6 42 | 0n 4 | 11 49 | 4 12 | 23 11 | 0 49 | 15 38 | 1 2 | 21 23 | 0 45 | 14 25 | 2 6 | 23 58 | 0 22 | 23 7 | 0 29 | 18 9 | 4 6 | 6 24 | 6 41 | 24 57 | | | n.a. |
| W28 | 20 12 | 12 31 | 1 11 | 11 50 | 4 18 | 23 2 | 0 51 | 15 25 | 1 2 | 21 20 | 0 45 | 14 26 | 2 6 | 23 58 | 0 22 | 23 7 | 0 29 | 18 10 | 4 6 | 6 24 | 6 39 | 24 55 | | | n.a. |
| T 29 | 19 59 | 17 58 | 2 16 | 11 54 | 4 23 | 22 52 | 0 53 | 15 12 | 1 2 | 21 17 | 0 45 | 14 26 | 2 7 | 23 58 | 0 22 | 23 7 | 0 29 | 18 10 | 4 6 | 6 23 | 6 38 | 24 54 | | | n.a. |
| F 30 | 19 46 | 22 42 | 3 16 | 12 1 | 4 27 | 22 42 | 0 55 | 14 59 | 1 1 | 21 15 | 0 45 | 14 27 | 2 7 | 23 58 | 0 22 | 23 7 | 0 29 | 18 10 | 4 6 | 6 23 | 6 37 | 24 52 | | | n.a. |
| S 31 | 19n32 | 26n18 | 4n 6 | 12n11 | 4s29 | 22n31 | 0n57 | 14n46 | 1n 1 | 21n12 | 0n45 | 14n28 | 2s 7 | 23n58 | 0n22 | 23n 7 | 0s29 | 18n10 | 4s 6 | 6n21 | 6n36 | 24s50 | | | n.a. |

Julian Day Number = 1698958.5, Delta T = 03h06m34s
Ecliptic obliquity = 23°42'17, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°54'47, Lahiri = - 4°47'46 Julian Calendar 1 July 62 BCE == Greg. Calendar 29 June 062 BCE

The year -61 astronomical counting style corresponds to year 062 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 62 BCE
# geocentric

## AUGUST 62 BCE (-61) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 25 30 | 4♌40'46 | 24♊51 | 14°R24 | 25♋ 1 | 24♌15 | 29♋49 | 14♉58 | 5♋39 | 5♋29 | 10♊11 | 15°R52 | 16♈33 | 1♒50 | n.a. | S 1 |
| M 2 | 20 29 26 | 5°38'50 | 9♋48 | 13♌35 | 26°15 | 24°53 | 0♌ 2 | 15° 1 | 5°42 | 5°31 | 10°12 | 15♈43 | 16°29 | 1°56 | n.a. | M 2 |
| T 3 | 20 33 23 | 6°36'57 | 25° 1 | 12°42 | 27°29 | 25°32 | 0°15 | 15° 5 | 5°45 | 5°33 | 10°13 | 15°33 | 16°26 | 2° 3 | n.a. | T 3 |
| W 4 | 20 37 19 | 7°35'06 | 10♌20 | 11°46 | 28°44 | 26°11 | 0°28 | 15° 8 | 5°49 | 5°35 | 10°14 | 15°23 | 16°23 | 2°10 | n.a. | W 4 |
| T 5 | 20 41 16 | 8°33'16 | 25°34 | 10°49 | 29°58 | 26°50 | 0°41 | 15°11 | 5°52 | 5°37 | 10°15 | 15°14 | 16°20 | 2°17 | n.a. | T 5 |
| F 6 | 20 45 12 | 9°31'28 | 10♍31 | 9°51 | 1♌13 | 27°29 | 0°54 | 15°13 | 5°55 | 5°39 | 10°16 | 15° 8 | 16°17 | 2°23 | n.a. | F 6 |
| S 7 | 20 49 9 | 10°29'41 | 25° 6 | 8°54 | 2°27 | 28° 8 | 1° 7 | 15°16 | 5°58 | 5°41 | 10°16 | 15° 4 | 16°14 | 2°30 | n.a. | S 7 |
| S 8 | 20 53 6 | 11°27'56 | 9♎12 | 7°59 | 3°42 | 28°47 | 1°20 | 15°19 | 6° 2 | 5°43 | 10°17 | 15°D 3 | 16°10 | 2°37 | n.a. | S 8 |
| M 9 | 20 57 2 | 12°26'13 | 22°50 | 7° 7 | 4°56 | 29°26 | 1°33 | 15°21 | 6° 5 | 5°45 | 10°18 | 15° 3 | 16° 7 | 2°44 | n.a. | M 9 |
| T 10 | 21 0 59 | 13°24'32 | 6♏ 2 | 6°20 | 6°11 | 0♍ 5 | 1°46 | 15°24 | 6° 8 | 5°47 | 10°19 | 15° 3 | 16° 4 | 2°50 | n.a. | T 10 |
| W11 | 21 4 55 | 14°22'52 | 18°50 | 5°39 | 7°25 | 0°44 | 1°59 | 15°26 | 6°11 | 5°49 | 10°20 | 15°R 3 | 16° 1 | 2°57 | n.a. | W11 |
| T 12 | 21 8 52 | 15°21'13 | 1♐19 | 5° 4 | 8°40 | 1°23 | 2°12 | 15°28 | 6°14 | 5°50 | 10°20 | 15° 2 | 15°58 | 3° 4 | n.a. | T 12 |
| F 13 | 21 12 48 | 16°19'37 | 13°34 | 4°37 | 9°54 | 2° 3 | 2°25 | 15°30 | 6°17 | 5°52 | 10°21 | 14°59 | 15°54 | 3°10 | n.a. | F 13 |
| S 14 | 21 16 45 | 17°18'02 | 25°38 | 4°18 | 11° 9 | 2°42 | 2°38 | 15°32 | 6°20 | 5°54 | 10°22 | 14°53 | 15°51 | 3°17 | n.a. | S 14 |
| S 15 | 21 20 41 | 18°16'29 | 7♑35 | 4° 8 | 12°24 | 3°21 | 2°51 | 15°34 | 6°23 | 5°56 | 10°22 | 14°45 | 15°48 | 3°24 | n.a. | S 15 |
| M16 | 21 24 38 | 19°14'58 | 19°29 | 4°D 7 | 13°38 | 4° 1 | 3° 3 | 15°36 | 6°26 | 5°57 | 10°23 | 14°35 | 15°45 | 3°31 | n.a. | M16 |
| T 17 | 21 28 35 | 20°13'28 | 1♒21 | 4°16 | 14°53 | 4°40 | 3°16 | 15°38 | 6°29 | 5°59 | 10°24 | 14°24 | 15°42 | 3°37 | n.a. | T 17 |
| W18 | 21 32 31 | 21°12'01 | 13°14 | 4°33 | 16° 8 | 5°19 | 3°29 | 15°39 | 6°32 | 6° 1 | 10°24 | 14°14 | 15°39 | 3°44 | n.a. | W18 |
| T 19 | 21 36 28 | 22°10'35 | 25° 9 | 5° 0 | 17°22 | 5°59 | 3°42 | 15°41 | 6°34 | 6° 3 | 10°25 | 14° 5 | 15°35 | 3°51 | n.a. | T 19 |
| F 20 | 21 40 24 | 23° 9'11 | 7♓ 8 | 5°36 | 18°37 | 6°38 | 3°55 | 15°42 | 6°37 | 6° 4 | 10°26 | 13°57 | 15°32 | 3°57 | n.a. | F 20 |
| S 21 | 21 44 21 | 24° 7'50 | 19°12 | 6°21 | 19°52 | 7°18 | 4° 7 | 15°44 | 6°40 | 6° 6 | 10°26 | 13°52 | 15°29 | 4° 4 | n.a. | S 21 |
| S 22 | 21 48 17 | 25° 6'30 | 1♈23 | 7°14 | 21° 7 | 7°57 | 4°20 | 15°45 | 6°43 | 6° 7 | 10°27 | 13°49 | 15°26 | 4°11 | n.a. | S 22 |
| M23 | 21 52 14 | 26° 5'13 | 13°44 | 8°14 | 22°21 | 8°37 | 4°33 | 15°46 | 6°46 | 6° 9 | 10°27 | 13°D48 | 15°23 | 4°18 | n.a. | M23 |
| T 24 | 21 56 10 | 27° 3'58 | 26°17 | 9°21 | 23°36 | 9°17 | 4°45 | 15°47 | 6°48 | 6°11 | 10°28 | 13°49 | 15°20 | 4°24 | n.a. | T 24 |
| W25 | 22 0 7 | 28° 2'46 | 9♉ 6 | 10°35 | 24°51 | 9°57 | 4°58 | 15°48 | 6°51 | 6°12 | 10°28 | 13°50 | 15°16 | 4°31 | n.a. | W25 |
| T 26 | 22 4 4 | 29° 1'36 | 22°14 | 11°55 | 26° 6 | 10°36 | 5°10 | 15°48 | 6°53 | 6°14 | 10°29 | 13°51 | 15°13 | 4°38 | n.a. | T 26 |
| F 27 | 22 8 0 | 0♍ 0'28 | 5♊44 | 13°20 | 27°21 | 11°16 | 5°23 | 15°49 | 6°56 | 6°15 | 10°29 | 13°R51 | 15°10 | 4°44 | n.a. | F 27 |
| S 28 | 22 11 57 | 0°59'23 | 19°39 | 14°49 | 28°36 | 11°56 | 5°35 | 15°49 | 6°58 | 6°17 | 10°29 | 13°50 | 15° 7 | 4°51 | n.a. | S 28 |
| S 29 | 22 15 53 | 1°58'20 | 3♋58 | 16°22 | 29°51 | 12°36 | 5°48 | 15°50 | 7° 1 | 6°18 | 10°30 | 13°46 | 15° 4 | 4°58 | n.a. | S 29 |
| M30 | 22 19 50 | 2°57'20 | 18°38 | 17°58 | 1♍ 6 | 13°16 | 6° 0 | 15°50 | 7° 3 | 6°19 | 10°30 | 13°41 | 15° 0 | 5° 5 | n.a. | M30 |
| T 31 | 22 23 46 | 3♍56'22 | 3♌36 | 19♌38 | 2♍21 | 13♍56 | 6♌12 | 15♉50 | 7♋ 6 | 6♋21 | 10♊30 | 13♈35 | 14♈57 | 5♒11 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| S 1 | 19n18 | 28n18 | 4n42 | 12n24 | 4s29 | 22n20 | 0n59 | 14n32 | 1n 0 | 21n 9 | 0n45 | 14n29 | 2s 7 | 23n57 | 0n22 | 23n 7 | 0s29 | 18n10 | 4s 6 | 6n18 | 6n34 | 24s48 | | | n.a. |
| M 2 | 19 4 | 28 20 | 5 0 | 12 40 | 4 27 | 22 7 | 1 0 | 14 19 | 1 0 | 21 7 | 0 46 | 14 30 | 2 7 | 23 57 | 0 22 | 23 6 | 0 29 | 18 10 | 4 6 | 6 15 | 6 33 | 24 46 | | | n.a. |
| T 3 | 18 50 | 26 15 | 4 58 | 12 58 | 4 24 | 21 54 | 1 2 | 14 5 | 1 0 | 21 4 | 0 46 | 14 31 | 2 7 | 23 57 | 0 22 | 23 6 | 0 29 | 18 10 | 4 6 | 6 11 | 6 32 | 24 45 | | | n.a. |
| W 4 | 18 35 | 22 14 | 4 34 | 13 19 | 4 19 | 21 41 | 1 4 | 13 51 | 0 59 | 21 1 | 0 46 | 14 31 | 2 8 | 23 57 | 0 23 | 23 6 | 0 29 | 18 10 | 4 6 | 6 7 | 6 31 | 24 43 | | | n.a. |
| T 5 | 18 19 | 16 46 | 3 51 | 13 41 | 4 11 | 21 26 | 1 5 | 13 38 | 0 59 | 20 58 | 0 46 | 14 32 | 2 8 | 23 57 | 0 23 | 23 6 | 0 29 | 18 10 | 4 6 | 6 4 | 6 29 | 24 41 | | | n.a. |
| F 6 | 18 4 | 10 22 | 2 53 | 14 6 | 4 2 | 21 12 | 1 7 | 13 24 | 0 58 | 20 56 | 0 46 | 14 33 | 2 8 | 23 57 | 0 23 | 23 6 | 0 29 | 18 11 | 4 6 | 6 2 | 6 28 | 24 39 | | | n.a. |
| S 7 | 17 48 | 3 34 | 1 44 | 14 31 | 3 51 | 20 56 | 1 8 | 13 10 | 0 58 | 20 53 | 0 46 | 14 33 | 2 8 | 23 57 | 0 23 | 23 6 | 0 29 | 18 11 | 4 6 | 6 0 | 6 27 | 24 37 | | | n.a. |
| S 8 | 17 32 | 3s13 | 0 31 | 14 58 | 3 38 | 20 40 | 1 9 | 12 56 | 0 58 | 20 50 | 0 46 | 14 34 | 2 8 | 23 57 | 0 23 | 23 6 | 0 29 | 18 11 | 4 6 | 5 59 | 6 26 | 24 36 | | | n.a. |
| M 9 | 17 16 | 9 37 | 0s41 | 15 25 | 3 23 | 20 23 | 1 11 | 12 41 | 0 57 | 20 47 | 0 46 | 14 34 | 2 8 | 23 56 | 0 23 | 23 6 | 0 29 | 18 11 | 4 6 | 5 59 | 6 25 | 24 34 | | | n.a. |
| T 10 | 16 59 | 15 24 | 1 50 | 15 52 | 3 7 | 20 6 | 1 12 | 12 27 | 0 57 | 20 44 | 0 46 | 14 35 | 2 9 | 23 56 | 0 23 | 23 6 | 0 29 | 18 11 | 4 6 | 6 0 | 6 23 | 24 32 | | | n.a. |
| W11 | 16 42 | 20 20 | 2 50 | 16 19 | 2 50 | 19 48 | 1 13 | 12 13 | 0 56 | 20 41 | 0 46 | 14 35 | 2 9 | 23 56 | 0 23 | 23 6 | 0 29 | 18 11 | 4 6 | 6 0 | 6 22 | 24 30 | | | n.a. |
| T 12 | 16 25 | 24 15 | 3 41 | 16 45 | 2 33 | 19 29 | 1 14 | 11 58 | 0 56 | 20 39 | 0 46 | 14 36 | 2 9 | 23 56 | 0 23 | 23 6 | 0 29 | 18 11 | 4 6 | 5 59 | 6 21 | 24 28 | | | n.a. |
| F 13 | 16 7 | 26 59 | 4 20 | 17 9 | 2 14 | 19 10 | 1 16 | 11 44 | 0 56 | 20 36 | 0 47 | 14 36 | 2 9 | 23 56 | 0 23 | 23 6 | 0 29 | 18 11 | 4 6 | 5 58 | 6 20 | 24 26 | | | n.a. |
| S 14 | 15 49 | 28 26 | 4 48 | 17 32 | 1 55 | 18 51 | 1 17 | 11 29 | 0 55 | 20 33 | 0 47 | 14 37 | 2 9 | 23 56 | 0 23 | 23 6 | 0 29 | 18 11 | 4 6 | 5 55 | 6 18 | 24 24 | | | n.a. |
| S 15 | 15 31 | 28 31 | 5 2 | 17 53 | 1 36 | 18 31 | 1 18 | 11 14 | 0 55 | 20 30 | 0 47 | 14 37 | 2 10 | 23 56 | 0 23 | 23 5 | 0 29 | 18 11 | 4 6 | 5 52 | 6 17 | 24 23 | | | n.a. |
| M16 | 15 13 | 27 16 | 5 3 | 18 11 | 1 17 | 18 10 | 1 18 | 10 59 | 0 54 | 20 27 | 0 47 | 14 38 | 2 10 | 23 56 | 0 23 | 23 5 | 0 29 | 18 11 | 4 6 | 5 49 | 6 16 | 24 21 | | | n.a. |
| T 17 | 14 54 | 24 49 | 4 52 | 18 27 | 0 59 | 17 49 | 1 19 | 10 45 | 0 54 | 20 24 | 0 47 | 14 38 | 2 10 | 23 55 | 0 23 | 23 5 | 0 29 | 18 11 | 4 6 | 5 44 | 6 15 | 24 19 | | | n.a. |
| W18 | 14 35 | 21 17 | 4 27 | 18 41 | 0 41 | 17 27 | 1 20 | 10 30 | 0 54 | 20 21 | 0 47 | 14 38 | 2 10 | 23 55 | 0 23 | 23 5 | 0 29 | 18 11 | 4 6 | 5 40 | 6 13 | 24 17 | | | n.a. |
| T 19 | 14 16 | 16 54 | 3 51 | 18 51 | 0 23 | 17 5 | 1 21 | 10 14 | 0 53 | 20 18 | 0 47 | 14 38 | 2 10 | 23 55 | 0 23 | 23 5 | 0 29 | 18 11 | 4 7 | 5 37 | 6 12 | 24 15 | | | n.a. |
| F 20 | 13 57 | 11 50 | 3 4 | 18 58 | 0 7 | 16 42 | 1 22 | 9 59 | 0 53 | 20 15 | 0 47 | 14 39 | 2 10 | 23 55 | 0 23 | 23 5 | 0 29 | 18 12 | 4 7 | 5 34 | 6 11 | 24 13 | | | n.a. |
| S 21 | 13 37 | 6 17 | 2 8 | 19 2 | 0n 9 | 16 19 | 1 22 | 9 44 | 0 52 | 20 13 | 0 47 | 14 39 | 2 11 | 23 55 | 0 23 | 23 5 | 0 29 | 18 12 | 4 7 | 5 32 | 6 10 | 24 11 | | | n.a. |
| S 22 | 13 18 | 0 27 | 1 6 | 19 3 | 0 24 | 15 55 | 1 23 | 9 29 | 0 52 | 20 10 | 0 48 | 14 39 | 2 11 | 23 55 | 0 23 | 23 5 | 0 29 | 18 12 | 4 7 | 5 31 | 6 8 | 24 9 | | | n.a. |
| M23 | 12 58 | 5n28 | 0 0 | 19 0 | 0 37 | 15 31 | 1 23 | 9 13 | 0 51 | 20 7 | 0 48 | 14 39 | 2 11 | 23 55 | 0 23 | 23 5 | 0 29 | 18 12 | 4 7 | 5 30 | 6 7 | 24 7 | | | n.a. |
| T 24 | 12 38 | 11 18 | 1n 7 | 18 54 | 0 49 | 15 7 | 1 24 | 8 58 | 0 51 | 20 4 | 0 48 | 14 39 | 2 11 | 23 55 | 0 23 | 23 5 | 0 29 | 18 12 | 4 7 | 5 30 | 6 6 | 24 5 | | | n.a. |
| W25 | 12 17 | 16 47 | 2 12 | 18 45 | 1 1 | 14 42 | 1 24 | 8 42 | 0 51 | 20 1 | 0 48 | 14 39 | 2 11 | 23 54 | 0 23 | 23 5 | 0 29 | 18 12 | 4 7 | 5 31 | 6 5 | 24 3 | | | n.a. |
| T 26 | 11 56 | 21 38 | 3 13 | 18 32 | 1 11 | 14 16 | 1 24 | 8 27 | 0 50 | 19 58 | 0 48 | 14 39 | 2 12 | 23 54 | 0 23 | 23 5 | 0 29 | 18 12 | 4 7 | 5 31 | 6 3 | 24 1 | | | n.a. |
| F 27 | 11 36 | 25 30 | 4 4 | 18 16 | 1 20 | 13 51 | 1 24 | 8 11 | 0 50 | 19 55 | 0 48 | 14 39 | 2 12 | 23 54 | 0 23 | 23 5 | 0 29 | 18 12 | 4 7 | 5 31 | 6 2 | 23 59 | | | n.a. |
| S 28 | 11 15 | 27 59 | 4 43 | 17 58 | 1 27 | 13 25 | 1 25 | 7 55 | 0 49 | 19 52 | 0 48 | 14 39 | 2 12 | 23 54 | 0 23 | 23 4 | 0 29 | 18 12 | 4 7 | 5 31 | 6 1 | 23 57 | | | n.a. |
| S 29 | 10 53 | 28 44 | 5 5 | 17 36 | 1 34 | 12 58 | 1 25 | 7 39 | 0 49 | 19 49 | 0 48 | 14 39 | 2 12 | 23 54 | 0 23 | 23 4 | 0 29 | 18 12 | 4 7 | 5 29 | 6 0 | 23 55 | | | n.a. |
| M30 | 10 32 | 27 29 | 5 8 | 17 11 | 1 40 | 12 31 | 1 25 | 7 23 | 0 48 | 19 46 | 0 49 | 14 39 | 2 12 | 23 54 | 0 23 | 23 4 | 0 29 | 18 12 | 4 7 | 5 28 | 5 59 | 23 54 | | | n.a. |
| T 31 | 10n10 | 24n17 | 4n51 | 16n44 | 1n44 | 12n 4 | 1n25 | 7n 7 | 0n48 | 19n43 | 0n49 | 14n39 | 2s12 | 23n54 | 0n23 | 23n 4 | 0s29 | 18n12 | 4s 7 | 5n25 | 5n57 | 23s52 | | | n.a. |

Julian Day Number = 1698989.5, Delta T = 03h06m33s
Ecliptic obliquity = 23°42'17, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°54'42, Lahiri = - 4°47'42 Julian Calendar 1 Aug. 62 BCE == Greg. Calendar 30 July 062 BCE

The year -61 astronomical counting style corresponds to year 062 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 62 BCE
# geocentric

## SEPTEMBER 62 BCE (-61) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 22 27 43 | 4♍55'26 | 18♌42 | 21♌19 | 3♍36 | 14♍36 | 6♌24 | 15°R50 | 7♋ 8 | 6♋22 | 10♊31 | 13°R30 | 14♈54 | 5♒18 | n.a. | W 1 |
| T 2 | 22 31 39 | 5°54'32 | 3♍47 | 23° 2 | 4°51 | 15°16 | 6°37 | 15♉50 | 7°10 | 6°24 | 10°31 | 13♈24 | 14°51 | 5°25 | n.a. | T 2 |
| F 3 | 22 35 36 | 6°53'41 | 18°42 | 24°47 | 6° 6 | 15°56 | 6°49 | 15°50 | 7°13 | 6°25 | 10°31 | 13°21 | 14°48 | 5°31 | n.a. | F 3 |
| S 4 | 22 39 33 | 7°52'51 | 3♎18 | 26°32 | 7°21 | 16°36 | 7° 1 | 15°50 | 7°15 | 6°26 | 10°32 | 13°19 | 14°45 | 5°38 | n.a. | S 4 |
| S 5 | 22 43 29 | 8°52'03 | 17°30 | 28°19 | 8°36 | 17°16 | 7°13 | 15°50 | 7°17 | 6°27 | 10°32 | 13°D18 | 14°41 | 5°45 | n.a. | S 5 |
| M 6 | 22 47 26 | 9°51'18 | 1♏15 | 0♍ 6 | 9°51 | 17°57 | 7°25 | 15°49 | 7°19 | 6°29 | 10°32 | 13°19 | 14°38 | 5°52 | n.a. | M 6 |
| T 7 | 22 51 22 | 10°50'34 | 14°33 | 1°53 | 11° 6 | 18°37 | 7°37 | 15°48 | 7°21 | 6°30 | 10°32 | 13°21 | 14°35 | 5°58 | n.a. | T 7 |
| W 8 | 22 55 19 | 11°49'53 | 27°26 | 3°40 | 12°21 | 19°17 | 7°49 | 15°48 | 7°23 | 6°31 | 10°32 | 13°22 | 14°32 | 6° 5 | n.a. | W 8 |
| T 9 | 22 59 15 | 12°49'13 | 9♐59 | 5°27 | 13°37 | 19°58 | 8° 1 | 15°47 | 7°25 | 6°32 | 10°32 | 13°R23 | 14°29 | 6°12 | n.a. | T 9 |
| F 10 | 23 3 12 | 13°48'35 | 22°15 | 7°14 | 14°52 | 20°38 | 8°13 | 15°46 | 7°27 | 6°33 | 10°33 | 13°23 | 14°25 | 6°18 | n.a. | F 10 |
| S 11 | 23 7 8 | 14°47'59 | 4♑18 | 9° 0 | 16° 7 | 21°19 | 8°24 | 15°45 | 7°29 | 6°34 | 10°33 | 13°21 | 14°22 | 6°25 | n.a. | S 11 |
| S 12 | 23 11 5 | 15°47'25 | 16°14 | 10°46 | 17°22 | 21°59 | 8°36 | 15°44 | 7°31 | 6°35 | 10°33 | 13°18 | 14°19 | 6°32 | n.a. | S 12 |
| M13 | 23 15 1 | 16°46'52 | 28° 6 | 12°32 | 18°37 | 22°40 | 8°48 | 15°42 | 7°33 | 6°36 | 10°33 | 13°14 | 14°16 | 6°39 | n.a. | M13 |
| T 14 | 23 18 58 | 17°46'22 | 9♒58 | 14°17 | 19°52 | 23°20 | 8°59 | 15°41 | 7°35 | 6°37 | 10°R33 | 13°10 | 14°13 | 6°45 | n.a. | T 14 |
| W15 | 23 22 55 | 18°45'53 | 21°53 | 16° 1 | 21° 7 | 24° 1 | 9°11 | 15°40 | 7°37 | 6°38 | 10°33 | 13° 6 | 14°10 | 6°52 | n.a. | W15 |
| T 16 | 23 26 51 | 19°45'27 | 3♓53 | 17°45 | 22°23 | 24°42 | 9°22 | 15°38 | 7°38 | 6°39 | 10°33 | 13° 2 | 14° 6 | 6°59 | n.a. | T 16 |
| F 17 | 23 30 48 | 20°45'02 | 16° 1 | 19°28 | 23°38 | 25°22 | 9°33 | 15°36 | 7°40 | 6°40 | 10°33 | 12°59 | 14° 3 | 7° 5 | n.a. | F 17 |
| S 18 | 23 34 44 | 21°44'40 | 28°17 | 21°10 | 24°53 | 26° 3 | 9°45 | 15°34 | 7°41 | 6°41 | 10°32 | 12°57 | 14° 0 | 7°12 | n.a. | S 18 |
| S 19 | 23 38 41 | 22°44'20 | 10♈43 | 22°52 | 26° 8 | 26°44 | 9°56 | 15°32 | 7°43 | 6°42 | 10°32 | 12°D56 | 13°57 | 7°19 | n.a. | S 19 |
| M20 | 23 42 37 | 23°44'01 | 23°20 | 24°34 | 27°23 | 27°25 | 10° 7 | 15°30 | 7°45 | 6°42 | 10°32 | 12°56 | 13°54 | 7°26 | n.a. | M20 |
| T 21 | 23 46 34 | 24°43'46 | 6♉ 9 | 26°14 | 28°39 | 28° 6 | 10°18 | 15°28 | 7°46 | 6°43 | 10°32 | 12°57 | 13°51 | 7°32 | n.a. | T 21 |
| W22 | 23 50 30 | 25°43'32 | 19°12 | 27°54 | 29°54 | 28°47 | 10°29 | 15°26 | 7°47 | 6°44 | 10°32 | 12°59 | 13°47 | 7°39 | n.a. | W22 |
| T 23 | 23 54 27 | 26°43'21 | 2♊29 | 29°33 | 1♎ 9 | 29°28 | 10°40 | 15°24 | 7°49 | 6°45 | 10°32 | 13° 0 | 13°44 | 7°46 | n.a. | T 23 |
| F 24 | 23 58 24 | 27°43'12 | 16° 3 | 1♎12 | 2°24 | 0♎ 9 | 10°51 | 15°21 | 7°50 | 6°45 | 10°31 | 13° 1 | 13°41 | 7°52 | n.a. | F 24 |
| S 25 | 0 2 20 | 28°43'05 | 29°53 | 2°50 | 3°40 | 0°50 | 11° 1 | 15°19 | 7°51 | 6°46 | 10°31 | 13°R 1 | 13°38 | 7°59 | n.a. | S 25 |
| S 26 | 0 6 17 | 29°43'01 | 14♋ 0 | 4°28 | 4°55 | 1°31 | 11°12 | 15°16 | 7°52 | 6°47 | 10°31 | 13° 1 | 13°35 | 8° 6 | n.a. | S 26 |
| M27 | 0 10 13 | 0♎43'00 | 28°22 | 6° 5 | 6°10 | 2°12 | 11°22 | 15°14 | 7°54 | 6°47 | 10°31 | 13° 0 | 13°31 | 8°13 | n.a. | M27 |
| T 28 | 0 14 10 | 1°43'00 | 12♌56 | 7°41 | 7°25 | 2°54 | 11°33 | 15°11 | 7°55 | 6°48 | 10°30 | 12°59 | 13°28 | 8°19 | n.a. | T 28 |
| W29 | 0 18 6 | 2°43'03 | 27°37 | 9°17 | 8°41 | 3°35 | 11°43 | 15° 8 | 7°56 | 6°48 | 10°30 | 12°57 | 13°25 | 8°26 | n.a. | W29 |
| T 30 | 0 22 3 | 3♎43'07 | 12♍19 | 10♎53 | 9♎56 | 4♎16 | 11♌54 | 15♉ 5 | 7♋57 | 6♋49 | 10♊30 | 12♈56 | 13♈22 | 8♒33 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 9n49 | 19n24 | 4n13 | 16n15 | 1n48 | 11n37 | 1n25 | 6n51 | 0n47 | 19n40 | 0n49 | 14n39 | 2s13 | 23n54 | 0n23 | 23n 4 | 0s29 | 18n12 | 4s 7 | 5n23 | 5n56 | 23s50 | | n.a. |
| T 2 | 9 27 | 13 18 | 3 18 | 15 43 | 1 50 | 11 9 | 1 24 | 6 35 | 0 47 | 19 37 | 0 49 | 14 39 | 2 13 | 23 54 | 0 23 | 23 4 | 0 29 | 18 12 | 4 7 | 5 21 | 5 55 | 23 48 | | n.a. |
| F 3 | 9 5 | 6 30 | 2 10 | 15 10 | 1 52 | 10 41 | 1 24 | 6 19 | 0 47 | 19 34 | 0 49 | 14 38 | 2 13 | 23 54 | 0 23 | 23 4 | 0 29 | 18 12 | 4 7 | 5 19 | 5 54 | 23 46 | | n.a. |
| S 4 | 8 42 | 0s30 | 0 54 | 14 35 | 1 53 | 10 12 | 1 24 | 6 3 | 0 46 | 19 31 | 0 49 | 14 38 | 2 13 | 23 53 | 0 23 | 23 4 | 0 29 | 18 12 | 4 7 | 5 19 | 5 52 | 23 44 | | n.a. |
| S 5 | 8 20 | 7 18 | 0s23 | 13 58 | 1 53 | 9 43 | 1 24 | 5 47 | 0 46 | 19 28 | 0 49 | 14 38 | 2 13 | 23 53 | 0 23 | 23 4 | 0 29 | 18 12 | 4 7 | 5 19 | 5 51 | 23 41 | | n.a. |
| M 6 | 7 58 | 13 32 | 1 36 | 13 19 | 1 53 | 9 14 | 1 23 | 5 30 | 0 45 | 19 25 | 0 50 | 14 38 | 2 14 | 23 53 | 0 23 | 23 4 | 0 29 | 18 12 | 4 7 | 5 19 | 5 50 | 23 39 | | n.a. |
| T 7 | 7 35 | 18 58 | 2 42 | 12 40 | 1 52 | 8 45 | 1 23 | 5 14 | 0 45 | 19 22 | 0 50 | 14 37 | 2 14 | 23 53 | 0 23 | 23 4 | 0 29 | 18 12 | 4 7 | 5 20 | 5 49 | 23 37 | | n.a. |
| W 8 | 7 12 | 23 20 | 3 38 | 11 59 | 1 50 | 8 16 | 1 22 | 4 58 | 0 44 | 19 19 | 0 50 | 14 37 | 2 14 | 23 53 | 0 23 | 23 4 | 0 29 | 18 12 | 4 7 | 5 20 | 5 47 | 23 35 | | n.a. |
| T 9 | 6 49 | 26 30 | 4 22 | 11 17 | 1 48 | 7 46 | 1 21 | 4 41 | 0 44 | 19 16 | 0 50 | 14 36 | 2 14 | 23 53 | 0 23 | 23 4 | 0 29 | 18 12 | 4 7 | 5 20 | 5 46 | 23 33 | | n.a. |
| F 10 | 6 26 | 28 20 | 4 52 | 10 35 | 1 45 | 7 16 | 1 21 | 4 25 | 0 43 | 19 13 | 0 50 | 14 36 | 2 14 | 23 53 | 0 23 | 23 4 | 0 29 | 18 12 | 4 7 | 5 20 | 5 45 | 23 31 | | n.a. |
| S 11 | 6 3 | 28 47 | 5 9 | 9 51 | 1 42 | 6 46 | 1 20 | 4 8 | 0 43 | 19 10 | 0 50 | 14 36 | 2 14 | 23 53 | 0 23 | 23 4 | 0 29 | 18 12 | 4 7 | 5 20 | 5 44 | 23 29 | | n.a. |
| S 12 | 5 40 | 27 52 | 5 13 | 9 7 | 1 38 | 6 15 | 1 19 | 3 52 | 0 42 | 19 7 | 0 50 | 14 35 | 2 15 | 23 53 | 0 23 | 23 4 | 0 29 | 18 12 | 4 7 | 5 19 | 5 42 | 23 27 | | n.a. |
| M13 | 5 16 | 25 42 | 5 3 | 8 23 | 1 34 | 5 45 | 1 18 | 3 35 | 0 42 | 19 4 | 0 51 | 14 35 | 2 15 | 23 53 | 0 23 | 23 3 | 0 29 | 18 12 | 4 8 | 5 17 | 5 41 | 23 25 | | n.a. |
| T 14 | 4 53 | 22 26 | 4 40 | 7 38 | 1 30 | 5 14 | 1 17 | 3 18 | 0 41 | 19 2 | 0 51 | 14 34 | 2 15 | 23 53 | 0 23 | 23 3 | 0 29 | 18 12 | 4 8 | 5 15 | 5 40 | 23 23 | | n.a. |
| W15 | 4 30 | 18 13 | 4 5 | 6 53 | 1 25 | 4 44 | 1 16 | 3 2 | 0 41 | 18 59 | 0 51 | 14 33 | 2 15 | 23 53 | 0 24 | 23 3 | 0 29 | 18 11 | 4 8 | 5 14 | 5 39 | 23 21 | | n.a. |
| T 16 | 4 6 | 13 16 | 3 18 | 6 7 | 1 20 | 4 13 | 1 15 | 2 45 | 0 40 | 18 56 | 0 51 | 14 33 | 2 15 | 23 52 | 0 24 | 23 3 | 0 29 | 18 11 | 4 8 | 5 12 | 5 37 | 23 19 | | n.a. |
| F 17 | 3 42 | 7 46 | 2 23 | 5 22 | 1 15 | 3 42 | 1 14 | 2 28 | 0 40 | 18 53 | 0 51 | 14 32 | 2 15 | 23 52 | 0 24 | 23 3 | 0 29 | 18 11 | 4 8 | 5 11 | 5 36 | 23 17 | | n.a. |
| S 18 | 3 19 | 1 55 | 1 20 | 4 36 | 1 10 | 3 10 | 1 13 | 2 11 | 0 39 | 18 50 | 0 51 | 14 32 | 2 16 | 23 52 | 0 24 | 23 3 | 0 29 | 18 11 | 4 8 | 5 10 | 5 35 | 23 15 | | n.a. |
| S 19 | 2 55 | 4n 6 | 0 12 | 3 50 | 1 4 | 2 39 | 1 12 | 1 54 | 0 39 | 18 47 | 0 52 | 14 31 | 2 16 | 23 52 | 0 24 | 23 3 | 0 29 | 18 11 | 4 8 | 5 10 | 5 34 | 23 13 | | n.a. |
| M20 | 2 31 | 10 3 | 0n57 | 3 4 | 0 58 | 2 8 | 1 11 | 1 38 | 0 38 | 18 44 | 0 52 | 14 30 | 2 16 | 23 52 | 0 24 | 23 3 | 0 29 | 18 11 | 4 8 | 5 10 | 5 32 | 23 10 | | n.a. |
| T 21 | 2 7 | 15 41 | 2 5 | 2 19 | 0 52 | 1 36 | 1 9 | 1 21 | 0 38 | 18 41 | 0 52 | 14 29 | 2 16 | 23 52 | 0 24 | 23 3 | 0 29 | 18 11 | 4 8 | 5 10 | 5 31 | 23 8 | | n.a. |
| W22 | 1 43 | 20 43 | 3 7 | 1 33 | 0 46 | 1 5 | 1 8 | 1 4 | 0 37 | 18 38 | 0 52 | 14 29 | 2 16 | 23 52 | 0 24 | 23 3 | 0 29 | 18 11 | 4 8 | 5 11 | 5 30 | 23 6 | | n.a. |
| T 23 | 1 19 | 24 49 | 4 1 | 0 47 | 0 40 | 0 33 | 1 7 | 0 47 | 0 37 | 18 36 | 0 52 | 14 28 | 2 16 | 23 52 | 0 24 | 23 3 | 0 29 | 18 11 | 4 8 | 5 11 | 5 29 | 23 4 | | n.a. |
| F 24 | 0 55 | 27 38 | 4 42 | 0 2 | 0 34 | 0 2 | 1 5 | 0 30 | 0 36 | 18 33 | 0 52 | 14 27 | 2 16 | 23 52 | 0 24 | 23 3 | 0 29 | 18 11 | 4 8 | 5 12 | 5 27 | 23 2 | | n.a. |
| S 25 | 0 31 | 28 50 | 5 8 | 0s44 | 0 27 | 0s30 | 1 4 | 0 13 | 0 36 | 18 30 | 0 53 | 14 26 | 2 17 | 23 52 | 0 24 | 23 3 | 0 29 | 18 11 | 4 8 | 5 12 | 5 26 | 23 0 | | n.a. |
| S 26 | 0 7 | 28 12 | 5 16 | 1 29 | 0 21 | 1 2 | 1 2 | 0s 4 | 0 35 | 18 27 | 0 53 | 14 25 | 2 17 | 23 52 | 0 24 | 23 3 | 0 29 | 18 11 | 4 8 | 5 12 | 5 25 | 22 58 | | n.a. |
| M27 | 0s17 | 25 41 | 5 5 | 2 14 | 0 14 | 1 33 | 1 0 | 0 21 | 0 35 | 18 24 | 0 53 | 14 24 | 2 17 | 23 52 | 0 24 | 23 3 | 0 29 | 18 11 | 4 8 | 5 11 | 5 24 | 22 55 | | n.a. |
| T 28 | 0 41 | 21 29 | 4 34 | 2 58 | 0 7 | 2 5 | 0 59 | 0 38 | 0 34 | 18 22 | 0 53 | 14 23 | 2 17 | 23 52 | 0 24 | 23 3 | 0 29 | 18 11 | 4 8 | 5 11 | 5 22 | 22 53 | | n.a. |
| W29 | 1 6 | 15 57 | 3 45 | 3 43 | 0 1 | 2 36 | 0 57 | 0 55 | 0 34 | 18 19 | 0 53 | 14 22 | 2 17 | 23 52 | 0 24 | 23 3 | 0 29 | 18 11 | 4 8 | 5 10 | 5 21 | 22 51 | | n.a. |
| T 30 | 1s30 | 9n30 | 2n42 | 4s26 | 0s 6 | 3s 8 | 0n55 | 1s12 | 0n33 | 18n16 | 0n54 | 14n21 | 2s17 | 23n52 | 0n24 | 23n 3 | 0s29 | 18n10 | 4s 8 | 5n10 | 5n20 | 22s49 | | n.a. |

Julian Day Number = 1699020.5, Delta T = 03h06m32s
Ecliptic obliquity = 23°42'18, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°54'38, Lahiri = - 4°47'38 Julian Calendar 1 Sept. 62 BCE == Greg. Calendar 30 Aug. 062 BCE


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# ASTRODIENST EPHEMERIS for the year 62 BCE
# geocentric

## OCTOBER 62 BCE (-61) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 0 25 59 | 4♎43'14 | 26♍55 | 12♎28 | 11♎11 | 4♎58 | 12♌ 4 | 15°R 2 | 7♋57 | 6♋49 | 10°R29 | 12°R56 | 13♈19 | 8♒39 | n.a. | F 1 |
| S 2 | 0 29 56 | 5°43'23 | 11♎18 | 14° 2 | 12°26 | 5°39 | 12°14 | 14♉59 | 7°58 | 6°49 | 10♊29 | 12°D55 | 13°16 | 8°46 | n.a. | S 2 |
| S 3 | 0 33 52 | 6°43'34 | 25°24 | 15°36 | 13°42 | 6°21 | 12°24 | 14°55 | 7°59 | 6°50 | 10°28 | 12♈55 | 13°12 | 8°53 | n.a. | S 3 |
| M 4 | 0 37 49 | 7°43'46 | 9♏ 8 | 17°10 | 14°57 | 7° 2 | 12°34 | 14°52 | 8° 0 | 6°50 | 10°28 | 12°56 | 13° 9 | 8°59 | n.a. | M 4 |
| T 5 | 0 41 46 | 8°44'01 | 22°28 | 18°43 | 16°12 | 7°44 | 12°44 | 14°48 | 8° 1 | 6°50 | 10°27 | 12°56 | 13° 6 | 9° 6 | n.a. | T 5 |
| W 6 | 0 45 42 | 9°44'17 | 5♐26 | 20°15 | 17°28 | 8°25 | 12°53 | 14°45 | 8° 1 | 6°51 | 10°27 | 12°57 | 13° 3 | 9°13 | n.a. | W 6 |
| T 7 | 0 49 39 | 10°44'34 | 18° 3 | 21°47 | 18°43 | 9° 7 | 13° 3 | 14°41 | 8° 2 | 6°51 | 10°26 | 12°57 | 13° 0 | 9°20 | n.a. | T 7 |
| F 8 | 0 53 35 | 11°44'54 | 0♑22 | 23°19 | 19°58 | 9°49 | 13°12 | 14°38 | 8° 2 | 6°51 | 10°26 | 12°57 | 12°57 | 9°26 | n.a. | F 8 |
| S 9 | 0 57 32 | 12°45'15 | 12°27 | 24°51 | 21°13 | 10°30 | 13°22 | 14°34 | 8° 3 | 6°51 | 10°25 | 12°57 | 12°53 | 9°33 | n.a. | S 9 |
| S 10 | 1 1 28 | 13°45'37 | 24°24 | 26°22 | 22°29 | 11°12 | 13°31 | 14°30 | 8° 3 | 6°51 | 10°25 | 12°57 | 12°50 | 9°40 | n.a. | S 10 |
| M11 | 1 5 25 | 14°46'01 | 6♒16 | 27°52 | 23°44 | 11°54 | 13°40 | 14°26 | 8° 4 | 6°51 | 10°24 | 12°57 | 12°47 | 9°46 | n.a. | M11 |
| T 12 | 1 9 21 | 15°46'26 | 18° 8 | 29°23 | 24°59 | 12°36 | 13°49 | 14°22 | 8° 4 | 6°51 | 10°24 | 12°57 | 12°44 | 9°53 | n.a. | T 12 |
| W13 | 1 13 18 | 16°46'53 | 0♓ 5 | 0♏52 | 26°15 | 13°18 | 13°58 | 14°18 | 8° 4 | 6°R51 | 10°23 | 12°58 | 12°41 | 10° 0 | n.a. | W13 |
| T 14 | 1 17 15 | 17°47'21 | 12°10 | 2°22 | 27°30 | 14° 0 | 14° 7 | 14°14 | 8° 4 | 6°51 | 10°22 | 12°58 | 12°37 | 10° 7 | n.a. | T 14 |
| F 15 | 1 21 11 | 18°47'51 | 24°26 | 3°51 | 28°45 | 14°42 | 14°16 | 14°10 | 8° 5 | 6°51 | 10°22 | 12°59 | 12°34 | 10°13 | n.a. | F 15 |
| S 16 | 1 25 8 | 19°48'23 | 6♈55 | 5°19 | 0♏ 0 | 15°24 | 14°24 | 14° 5 | 8° 5 | 6°51 | 10°21 | 12°R59 | 12°31 | 10°20 | n.a. | S 16 |
| S 17 | 1 29 4 | 20°48'56 | 19°38 | 6°47 | 1°16 | 16° 6 | 14°33 | 14° 1 | 8°R 5 | 6°51 | 10°20 | 12°59 | 12°28 | 10°27 | n.a. | S 17 |
| M18 | 1 33 1 | 21°49'30 | 2♉37 | 8°15 | 2°31 | 16°48 | 14°41 | 13°57 | 8° 5 | 6°51 | 10°19 | 12°59 | 12°25 | 10°33 | n.a. | M18 |
| T 19 | 1 36 57 | 22°50'07 | 15°50 | 9°42 | 3°46 | 17°31 | 14°49 | 13°52 | 8° 5 | 6°51 | 10°19 | 12°58 | 12°22 | 10°40 | n.a. | T 19 |
| W20 | 1 40 54 | 23°50'45 | 29°17 | 11° 8 | 5° 1 | 18°13 | 14°57 | 13°48 | 8° 4 | 6°51 | 10°18 | 12°56 | 12°18 | 10°47 | n.a. | W20 |
| T 21 | 1 44 50 | 24°51'24 | 12♊56 | 12°34 | 6°17 | 18°55 | 15° 5 | 13°43 | 8° 4 | 6°50 | 10°17 | 12°55 | 12°15 | 10°54 | n.a. | T 21 |
| F 22 | 1 48 47 | 25°52'06 | 26°46 | 13°59 | 7°32 | 19°38 | 15°13 | 13°39 | 8° 4 | 6°50 | 10°16 | 12°53 | 12°12 | 11° 0 | n.a. | F 22 |
| S 23 | 1 52 44 | 26°52'49 | 10♋44 | 15°24 | 8°47 | 20°20 | 15°21 | 13°34 | 8° 4 | 6°50 | 10°15 | 12°52 | 12° 9 | 11° 7 | n.a. | S 23 |
| S 24 | 1 56 40 | 27°53'34 | 24°50 | 16°47 | 10° 2 | 21° 3 | 15°28 | 13°30 | 8° 3 | 6°49 | 10°15 | 12°D52 | 12° 6 | 11°14 | n.a. | S 24 |
| M25 | 2 0 37 | 28°54'21 | 9♌ 1 | 18°10 | 11°18 | 21°45 | 15°36 | 13°25 | 8° 3 | 6°49 | 10°14 | 12°52 | 12° 2 | 11°20 | n.a. | M25 |
| T 26 | 2 4 33 | 29°55'10 | 23°15 | 19°31 | 12°33 | 22°28 | 15°43 | 13°20 | 8° 3 | 6°49 | 10°13 | 12°53 | 11°59 | 11°27 | n.a. | T 26 |
| W27 | 2 8 30 | 0♏56'00 | 7♍29 | 20°51 | 13°48 | 23°10 | 15°50 | 13°15 | 8° 2 | 6°48 | 10°12 | 12°54 | 11°56 | 11°34 | n.a. | W27 |
| T 28 | 2 12 26 | 1°56'51 | 21°42 | 22°10 | 15° 3 | 23°53 | 15°57 | 13°10 | 8° 1 | 6°48 | 10°11 | 12°55 | 11°53 | 11°40 | n.a. | T 28 |
| F 29 | 2 16 23 | 2°57'44 | 5♎49 | 23°27 | 16°19 | 24°36 | 16° 4 | 13° 6 | 8° 1 | 6°47 | 10°10 | 12°R56 | 11°50 | 11°47 | n.a. | F 29 |
| S 30 | 2 20 19 | 3°58'39 | 19°47 | 24°42 | 17°34 | 25°18 | 16°11 | 13° 1 | 8° 0 | 6°47 | 10° 9 | 12°56 | 11°47 | 11°54 | n.a. | S 30 |
| S 31 | 2 24 16 | 4♏59'35 | 3♏34 | 25♏55 | 18♏49 | 26♎ 1 | 16♌17 | 12♉56 | 7♋59 | 6♋46 | 10♊ 8 | 12♈55 | 11♈43 | 12♒ 1 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 1s54 | 2n35 | 1n28 | 5s10 | 0s13 | 3s39 | 0n53 | 1s29 | 0n33 | 18n14 | 0n54 | 14n20 | 2s17 | 23n52 | 0n24 | 23n 3 | 0s29 | 18n10 | 4s 8 | 5n10 | 5n19 | 22s47 | | n.a. |
| S 2 | 2 18 | 4s23 | 0 9 | 5 53 | 0 19 | 4 11 | 0 51 | 1 47 | 0 32 | 18 11 | 0 54 | 14 19 | 2 17 | 23 52 | 0 24 | 23 3 | 0 29 | 18 10 | 4 8 | 5 9 | 5 17 | 22 45 | | n.a. |
| S 3 | 2 42 | 11 0 | 1s 9 | 6 36 | 0 26 | 4 42 | 0 50 | 2 4 | 0 32 | 18 8 | 0 54 | 14 18 | 2 17 | 23 52 | 0 24 | 23 3 | 0 29 | 18 10 | 4 8 | 5 10 | 5 16 | 22 42 | | n.a. |
| M 4 | 3 6 | 16 55 | 2 20 | 7 19 | 0 33 | 5 13 | 0 48 | 2 21 | 0 31 | 18 6 | 0 54 | 14 17 | 2 18 | 23 52 | 0 24 | 23 3 | 0 29 | 18 10 | 4 8 | 5 10 | 5 15 | 22 40 | | n.a. |
| T 5 | 3 30 | 21 51 | 3 22 | 8 1 | 0 39 | 5 44 | 0 46 | 2 38 | 0 31 | 18 3 | 0 55 | 14 16 | 2 18 | 23 52 | 0 24 | 23 3 | 0 29 | 18 10 | 4 8 | 5 10 | 5 14 | 22 38 | | n.a. |
| W 6 | 3 54 | 25 34 | 4 12 | 8 42 | 0 46 | 6 15 | 0 44 | 2 55 | 0 30 | 18 0 | 0 55 | 14 15 | 2 18 | 23 52 | 0 24 | 23 3 | 0 29 | 18 10 | 4 8 | 5 10 | 5 12 | 22 36 | | n.a. |
| T 7 | 4 18 | 27 56 | 4 48 | 9 23 | 0 52 | 6 46 | 0 42 | 3 12 | 0 30 | 17 58 | 0 55 | 14 14 | 2 18 | 23 52 | 0 24 | 23 3 | 0 29 | 18 10 | 4 8 | 5 10 | 5 11 | 22 34 | | n.a. |
| F 8 | 4 42 | 28 52 | 5 10 | 10 4 | 0 58 | 7 17 | 0 40 | 3 29 | 0 29 | 17 55 | 0 55 | 14 13 | 2 18 | 23 52 | 0 24 | 23 3 | 0 29 | 18 10 | 4 8 | 5 10 | 5 10 | 22 31 | | n.a. |
| S 9 | 5 6 | 28 23 | 5 17 | 10 44 | 1 5 | 7 48 | 0 37 | 3 46 | 0 28 | 17 53 | 0 55 | 14 11 | 2 18 | 23 52 | 0 24 | 23 3 | 0 29 | 18 10 | 4 9 | 5 10 | 5 9 | 22 29 | | n.a. |
| S 10 | 5 29 | 26 34 | 5 11 | 11 23 | 1 11 | 8 18 | 0 35 | 4 3 | 0 28 | 17 50 | 0 56 | 14 10 | 2 18 | 23 52 | 0 24 | 23 3 | 0 29 | 18 9 | 4 9 | 5 10 | 5 7 | 22 27 | | n.a. |
| M11 | 5 53 | 23 37 | 4 51 | 12 2 | 1 17 | 8 48 | 0 33 | 4 20 | 0 27 | 17 48 | 0 56 | 14 9 | 2 18 | 23 52 | 0 24 | 23 3 | 0 29 | 18 9 | 4 9 | 5 10 | 5 6 | 22 25 | | n.a. |
| T 12 | 6 16 | 19 40 | 4 19 | 12 40 | 1 23 | 9 18 | 0 31 | 4 37 | 0 27 | 17 45 | 0 56 | 14 8 | 2 18 | 23 52 | 0 24 | 23 3 | 0 29 | 18 9 | 4 9 | 5 10 | 5 5 | 22 22 | | n.a. |
| W13 | 6 40 | 14 56 | 3 36 | 13 17 | 1 29 | 9 48 | 0 29 | 4 54 | 0 26 | 17 43 | 0 56 | 14 6 | 2 18 | 23 52 | 0 24 | 23 3 | 0 29 | 18 9 | 4 9 | 5 10 | 5 4 | 22 20 | | n.a. |
| T 14 | 7 3 | 9 34 | 2 43 | 13 54 | 1 35 | 10 17 | 0 26 | 5 11 | 0 26 | 17 41 | 0 56 | 14 5 | 2 18 | 23 52 | 0 24 | 23 3 | 0 29 | 18 9 | 4 9 | 5 11 | 5 2 | 22 18 | | n.a. |
| F 15 | 7 27 | 3 47 | 1 41 | 14 30 | 1 40 | 10 47 | 0 24 | 5 28 | 0 25 | 17 38 | 0 57 | 14 4 | 2 18 | 23 52 | 0 24 | 23 3 | 0 29 | 18 9 | 4 9 | 5 11 | 5 1 | 22 16 | | n.a. |
| S 16 | 7 50 | 2n16 | 0 34 | 15 6 | 1 45 | 11 16 | 0 22 | 5 45 | 0 25 | 17 36 | 0 57 | 14 2 | 2 18 | 23 52 | 0 24 | 23 3 | 0 29 | 18 9 | 4 9 | 5 11 | 5 0 | 22 13 | | n.a. |
| S 17 | 8 13 | 8 20 | 0n37 | 15 40 | 1 51 | 11 44 | 0 19 | 6 2 | 0 24 | 17 34 | 0 57 | 14 1 | 2 19 | 23 52 | 0 25 | 23 3 | 0 29 | 18 9 | 4 9 | 5 11 | 4 59 | 22 11 | | n.a. |
| M18 | 8 36 | 14 11 | 1 47 | 16 14 | 1 55 | 12 13 | 0 17 | 6 19 | 0 23 | 17 31 | 0 57 | 14 0 | 2 19 | 23 52 | 0 25 | 23 3 | 0 29 | 18 9 | 4 9 | 5 11 | 4 57 | 22 9 | | n.a. |
| T 19 | 8 59 | 19 30 | 2 52 | 16 47 | 2 0 | 12 41 | 0 15 | 6 36 | 0 23 | 17 29 | 0 58 | 13 58 | 2 19 | 23 52 | 0 25 | 23 3 | 0 29 | 18 8 | 4 9 | 5 10 | 4 56 | 22 6 | | n.a. |
| W20 | 9 21 | 23 56 | 3 49 | 17 18 | 2 5 | 13 9 | 0 12 | 6 53 | 0 22 | 17 27 | 0 58 | 13 57 | 2 19 | 23 52 | 0 25 | 23 3 | 0 29 | 18 8 | 4 9 | 5 10 | 4 55 | 22 4 | | n.a. |
| T 21 | 9 44 | 27 8 | 4 34 | 17 49 | 2 9 | 13 36 | 0 10 | 7 9 | 0 22 | 17 25 | 0 58 | 13 56 | 2 19 | 23 52 | 0 25 | 23 3 | 0 29 | 18 8 | 4 9 | 5 9 | 4 54 | 22 2 | | n.a. |
| F 22 | 10 6 | 28 43 | 5 4 | 18 19 | 2 13 | 14 4 | 0 7 | 7 26 | 0 21 | 17 23 | 0 58 | 13 54 | 2 19 | 23 52 | 0 25 | 23 3 | 0 29 | 18 8 | 4 9 | 5 9 | 4 52 | 22 0 | | n.a. |
| S 23 | 10 28 | 28 31 | 5 16 | 18 48 | 2 16 | 14 30 | 0 5 | 7 43 | 0 21 | 17 21 | 0 58 | 13 53 | 2 19 | 23 52 | 0 25 | 23 3 | 0 29 | 18 8 | 4 9 | 5 8 | 4 51 | 21 57 | | n.a. |
| S 24 | 10 50 | 26 28 | 5 9 | 19 16 | 2 19 | 14 57 | 0 3 | 7 59 | 0 20 | 17 19 | 0 59 | 13 52 | 2 19 | 23 52 | 0 25 | 23 3 | 0 29 | 18 8 | 4 9 | 5 8 | 4 50 | 21 55 | | n.a. |
| M25 | 11 12 | 22 45 | 4 44 | 19 42 | 2 22 | 15 23 | 0 0 | 8 16 | 0 19 | 17 17 | 0 59 | 13 50 | 2 19 | 23 52 | 0 25 | 23 3 | 0 29 | 18 8 | 4 9 | 5 8 | 4 49 | 21 53 | | n.a. |
| T 26 | 11 34 | 17 42 | 4 1 | 20 7 | 2 24 | 15 49 | 0s 2 | 8 33 | 0 19 | 17 15 | 0 59 | 13 49 | 2 19 | 23 52 | 0 25 | 23 3 | 0 29 | 18 7 | 4 9 | 5 8 | 4 47 | 21 50 | | n.a. |
| W27 | 11 56 | 11 41 | 3 3 | 20 31 | 2 26 | 16 14 | 0 5 | 8 49 | 0 18 | 17 13 | 0 59 | 13 47 | 2 19 | 23 52 | 0 25 | 23 3 | 0 29 | 18 7 | 4 9 | 5 9 | 4 46 | 21 48 | | n.a. |
| T 28 | 12 17 | 5 5 | 1 55 | 20 54 | 2 28 | 16 39 | 0 7 | 9 6 | 0 18 | 17 11 | 1 0 | 13 46 | 2 19 | 23 52 | 0 25 | 23 3 | 0 29 | 18 7 | 4 9 | 5 9 | 4 45 | 21 46 | | n.a. |
| F 29 | 12 38 | 1s44 | 0 39 | 21 15 | 2 29 | 17 3 | 0 10 | 9 22 | 0 17 | 17 9 | 1 0 | 13 44 | 2 19 | 23 52 | 0 25 | 23 3 | 0 29 | 18 7 | 4 9 | 5 10 | 4 44 | 21 43 | | n.a. |
| S 30 | 12 59 | 8 24 | 0s38 | 21 34 | 2 29 | 17 27 | 0 12 | 9 38 | 0 16 | 17 7 | 1 0 | 13 43 | 2 19 | 23 52 | 0 25 | 23 3 | 0 29 | 18 7 | 4 9 | 5 10 | 4 42 | 21 41 | | n.a. |
| S 31 | 13s20 | 14s35 | 1s51 | 21s52 | 2s29 | 17s51 | 0s15 | 9s55 | 0n16 | 17n 5 | 1n 0 | 13n41 | 2s19 | 23n53 | 0n25 | 23n 3 | 0s29 | 18n 7 | 4s 9 | 5n 9 | 4n41 | 21s39 | | n.a. |

Julian Day Number = 1699050.5, Delta T = 03h06m32s
Ecliptic obliquity = 23°42'18, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°54'34, Lahiri = - 4°47'34 Julian Calendar 1 Oct. 62 BCE == Greg. Calendar 29 Sept. 062 BCE

The year -61 astronomical counting style corresponds to year 062 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 62 BCE
# geocentric

## NOVEMBER 62 BCE (-61) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 2 28 13 | 6♏ 0'32 | 17♏ 5 | 27♏ 6 | 20♏ 4 | 26♎44 | 16♌24 | 12°R51 | 7°R59 | 6°R45 | 10°R 7 | 12°R53 | 11♈40 | 12♒ 7 | n.a. | M 1 |
| T 2 | 2 32 9 | 7° 1'30 | 0♐18 | 28°14 | 21°20 | 27°27 | 16°30 | 12♉46 | 7♋58 | 6♋45 | 10♊ 6 | 12♈49 | 11°37 | 12°14 | n.a. | T 2 |
| W 3 | 2 36 6 | 8° 2'30 | 13°13 | 29°18 | 22°35 | 28°10 | 16°36 | 12°41 | 7°57 | 6°44 | 10° 5 | 12°45 | 11°34 | 12°21 | n.a. | W 3 |
| T 4 | 2 40 2 | 9° 3'30 | 25°50 | 0♐19 | 23°50 | 28°53 | 16°42 | 12°36 | 7°56 | 6°43 | 10° 4 | 12°41 | 11°31 | 12°27 | n.a. | T 4 |
| F 5 | 2 43 59 | 10° 4'31 | 8♑10 | 1°16 | 25° 5 | 29°36 | 16°48 | 12°31 | 7°55 | 6°43 | 10° 3 | 12°37 | 11°28 | 12°34 | n.a. | F 5 |
| S 6 | 2 47 55 | 11° 5'33 | 20°17 | 2° 7 | 26°20 | 0♏19 | 16°54 | 12°26 | 7°54 | 6°42 | 10° 2 | 12°33 | 11°24 | 12°41 | n.a. | S 6 |
| S 7 | 2 51 52 | 12° 6'36 | 2♒14 | 2°54 | 27°36 | 1° 2 | 16°59 | 12°21 | 7°53 | 6°41 | 10° 1 | 12°31 | 11°21 | 12°48 | n.a. | S 7 |
| M 8 | 2 55 49 | 13° 7'39 | 14° 5 | 3°34 | 28°51 | 1°45 | 17° 4 | 12°16 | 7°52 | 6°40 | 10° 0 | 12°D31 | 11°18 | 12°54 | n.a. | M 8 |
| T 9 | 2 59 45 | 14° 8'44 | 25°57 | 4° 7 | 0♐ 6 | 2°28 | 17°10 | 12°11 | 7°51 | 6°39 | 9°59 | 12°32 | 11°15 | 13° 1 | n.a. | T 9 |
| W10 | 3 3 42 | 15° 9'48 | 7♓53 | 4°32 | 1°21 | 3°12 | 17°15 | 12° 6 | 7°49 | 6°38 | 9°58 | 12°33 | 11°12 | 13° 8 | n.a. | W10 |
| T 11 | 3 7 38 | 16°10'53 | 19°59 | 4°48 | 2°36 | 3°55 | 17°19 | 12° 1 | 7°48 | 6°37 | 9°57 | 12°35 | 11° 8 | 13°14 | n.a. | T 11 |
| F 12 | 3 11 35 | 17°11'59 | 2♈19 | 4°R55 | 3°51 | 4°38 | 17°24 | 11°56 | 7°47 | 6°36 | 9°56 | 12°37 | 11° 5 | 13°21 | n.a. | F 12 |
| S 13 | 3 15 31 | 18°13'06 | 14°56 | 4°51 | 5° 6 | 5°22 | 17°29 | 11°51 | 7°45 | 6°36 | 9°55 | 12°R37 | 11° 2 | 13°28 | n.a. | S 13 |
| S 14 | 3 19 28 | 19°14'13 | 27°53 | 4°36 | 6°22 | 6° 5 | 17°33 | 11°47 | 7°44 | 6°34 | 9°53 | 12°36 | 10°59 | 13°34 | n.a. | S 14 |
| M15 | 3 23 24 | 20°15'20 | 11♉12 | 4°10 | 7°37 | 6°49 | 17°37 | 11°42 | 7°42 | 6°33 | 9°52 | 12°33 | 10°56 | 13°41 | n.a. | M15 |
| T 16 | 3 27 21 | 21°16'29 | 24°50 | 3°32 | 8°52 | 7°32 | 17°41 | 11°37 | 7°41 | 6°32 | 9°51 | 12°28 | 10°53 | 13°48 | n.a. | T 16 |
| W17 | 3 31 18 | 22°17'38 | 8♊45 | 2°43 | 10° 7 | 8°16 | 17°45 | 11°32 | 7°39 | 6°31 | 9°50 | 12°22 | 10°49 | 13°55 | n.a. | W17 |
| T 18 | 3 35 14 | 23°18'48 | 22°54 | 1°43 | 11°22 | 8°59 | 17°48 | 11°27 | 7°38 | 6°30 | 9°49 | 12°15 | 10°46 | 14° 1 | n.a. | T 18 |
| F 19 | 3 39 11 | 24°19'58 | 7♋11 | 0°35 | 12°37 | 9°43 | 17°52 | 11°22 | 7°36 | 6°29 | 9°48 | 12° 8 | 10°43 | 14° 8 | n.a. | F 19 |
| S 20 | 3 43 7 | 25°21'09 | 21°31 | 29♏19 | 13°52 | 10°27 | 17°55 | 11°18 | 7°34 | 6°28 | 9°46 | 12° 3 | 10°40 | 14°15 | n.a. | S 20 |
| S 21 | 3 47 4 | 26°22'21 | 5♌50 | 27°59 | 15° 7 | 11°11 | 17°58 | 11°13 | 7°33 | 6°27 | 9°45 | 11°59 | 10°37 | 14°21 | n.a. | S 21 |
| M22 | 3 51 0 | 27°23'34 | 20° 3 | 26°36 | 16°22 | 11°54 | 18° 1 | 11° 8 | 7°31 | 6°26 | 9°44 | 11°57 | 10°34 | 14°28 | n.a. | M22 |
| T 23 | 3 54 57 | 28°24'48 | 4♍10 | 25°14 | 17°37 | 12°38 | 18° 4 | 11° 4 | 7°29 | 6°24 | 9°43 | 11°D57 | 10°30 | 14°35 | n.a. | T 23 |
| W24 | 3 58 53 | 29°26'02 | 18° 8 | 23°56 | 18°52 | 13°22 | 18° 7 | 10°59 | 7°27 | 6°23 | 9°42 | 11°58 | 10°27 | 14°41 | n.a. | W24 |
| T 25 | 4 2 50 | 0♐27'16 | 1♎57 | 22°43 | 20° 7 | 14° 6 | 18° 9 | 10°54 | 7°25 | 6°22 | 9°40 | 11°59 | 10°24 | 14°48 | n.a. | T 25 |
| F 26 | 4 6 47 | 1°28'31 | 15°37 | 21°38 | 21°22 | 14°50 | 18°11 | 10°50 | 7°23 | 6°20 | 9°39 | 11°R59 | 10°21 | 14°55 | n.a. | F 26 |
| S 27 | 4 10 43 | 2°29'47 | 29° 8 | 20°42 | 22°37 | 15°34 | 18°13 | 10°45 | 7°21 | 6°19 | 9°38 | 11°58 | 10°18 | 15° 2 | n.a. | S 27 |
| S 28 | 4 14 40 | 3°31'03 | 12♏29 | 19°57 | 23°52 | 16°18 | 18°15 | 10°41 | 7°19 | 6°18 | 9°37 | 11°54 | 10°14 | 15° 8 | n.a. | S 28 |
| M29 | 4 18 36 | 4°32'19 | 25°38 | 19°21 | 25° 7 | 17° 2 | 18°16 | 10°37 | 7°17 | 6°16 | 9°36 | 11°47 | 10°11 | 15°15 | n.a. | M29 |
| T 30 | 4 22 33 | 5♐33'36 | 8♐35 | 18♏57 | 26♐22 | 17♏46 | 18♌18 | 10♉32 | 7♋15 | 6♋15 | 9♊34 | 11♈39 | 10♈ 8 | 15♒22 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 13s40 | 19s57 | 2s57 | 22s 8 | 2s28 | 18s14 | 0s17 | 10s11 | 0n15 | 17n 4 | 1n 1 | 13n40 | 2s19 | 23n53 | 0n25 | 23n 3 | 0s29 | 18n 7 | 4s 9 | 5n 8 | 4n40 | 21s36 | | n.a. |
| T 2 | 14 1 | 24 12 | 3 51 | 22 22 | 2 27 | 18 36 | 0 20 | 10 27 | 0 15 | 17 2 | 1 1 | 13 39 | 2 19 | 23 53 | 0 25 | 23 3 | 0 29 | 18 7 | 4 9 | 5 7 | 4 39 | 21 34 | | n.a. |
| W 3 | 14 21 | 27 9 | 4 33 | 22 34 | 2 24 | 18 58 | 0 22 | 10 43 | 0 14 | 17 0 | 1 1 | 13 37 | 2 19 | 23 53 | 0 25 | 23 3 | 0 29 | 18 6 | 4 9 | 5 5 | 4 37 | 21 31 | | n.a. |
| T 4 | 14 40 | 28 38 | 5 0 | 22 44 | 2 21 | 19 20 | 0 24 | 10 59 | 0 13 | 16 59 | 1 1 | 13 36 | 2 18 | 23 53 | 0 25 | 23 3 | 0 29 | 18 6 | 4 9 | 5 4 | 4 36 | 21 29 | | n.a. |
| F 5 | 15 0 | 28 39 | 5 12 | 22 52 | 2 17 | 19 41 | 0 27 | 11 15 | 0 13 | 16 57 | 1 2 | 13 34 | 2 18 | 23 53 | 0 25 | 23 3 | 0 29 | 18 6 | 4 9 | 5 2 | 4 35 | 21 27 | | n.a. |
| S 6 | 15 19 | 27 16 | 5 10 | 22 58 | 2 11 | 20 1 | 0 29 | 11 31 | 0 12 | 16 56 | 1 2 | 13 33 | 2 18 | 23 53 | 0 25 | 23 3 | 0 29 | 18 6 | 4 9 | 5 1 | 4 34 | 21 24 | | n.a. |
| S 7 | 15 38 | 24 40 | 4 55 | 23 1 | 2 5 | 20 21 | 0 32 | 11 47 | 0 12 | 16 54 | 1 2 | 13 31 | 2 18 | 23 53 | 0 25 | 23 3 | 0 29 | 18 6 | 4 9 | 5 0 | 4 32 | 21 22 | | n.a. |
| M 8 | 15 57 | 21 2 | 4 27 | 23 1 | 1 57 | 20 41 | 0 34 | 12 3 | 0 11 | 16 53 | 1 3 | 13 30 | 2 18 | 23 53 | 0 25 | 23 3 | 0 29 | 18 6 | 4 9 | 5 0 | 4 31 | 21 19 | | n.a. |
| T 9 | 16 16 | 16 34 | 3 48 | 22 59 | 1 49 | 20 59 | 0 36 | 12 18 | 0 10 | 16 52 | 1 3 | 13 28 | 2 18 | 23 53 | 0 25 | 23 3 | 0 29 | 18 5 | 4 9 | 5 0 | 4 30 | 21 17 | | n.a. |
| W10 | 16 34 | 11 27 | 2 58 | 22 54 | 1 38 | 21 17 | 0 39 | 12 34 | 0 10 | 16 50 | 1 3 | 13 27 | 2 18 | 23 53 | 0 25 | 23 3 | 0 29 | 18 5 | 4 9 | 5 1 | 4 29 | 21 15 | | n.a. |
| T 11 | 16 52 | 5 51 | 2 0 | 22 45 | 1 27 | 21 35 | 0 41 | 12 49 | 0 9 | 16 49 | 1 3 | 13 25 | 2 18 | 23 54 | 0 25 | 23 3 | 0 29 | 18 5 | 4 9 | 5 2 | 4 27 | 21 12 | | n.a. |
| F 12 | 17 9 | 0n 4 | 0 56 | 22 34 | 1 14 | 21 52 | 0 43 | 13 5 | 0 9 | 16 48 | 1 4 | 13 24 | 2 18 | 23 54 | 0 25 | 23 3 | 0 29 | 18 5 | 4 9 | 5 2 | 4 26 | 21 10 | | n.a. |
| S 13 | 17 27 | 6 8 | 0n13 | 22 19 | 0 59 | 22 8 | 0 46 | 13 20 | 0 8 | 16 47 | 1 4 | 13 23 | 2 18 | 23 54 | 0 25 | 23 3 | 0 29 | 18 5 | 4 9 | 5 2 | 4 25 | 21 7 | | n.a. |
| S 14 | 17 44 | 12 7 | 1 22 | 22 0 | 0 43 | 22 24 | 0 48 | 13 35 | 0 7 | 16 46 | 1 4 | 13 21 | 2 18 | 23 54 | 0 25 | 23 3 | 0 29 | 18 5 | 4 9 | 5 2 | 4 24 | 21 5 | | n.a. |
| M15 | 18 0 | 17 43 | 2 29 | 21 38 | 0 26 | 22 39 | 0 50 | 13 50 | 0 7 | 16 45 | 1 4 | 13 20 | 2 18 | 23 54 | 0 25 | 23 3 | 0 29 | 18 5 | 4 9 | 5 1 | 4 22 | 21 2 | | n.a. |
| T 16 | 18 17 | 22 34 | 3 29 | 21 13 | 0 7 | 22 53 | 0 52 | 14 5 | 0 6 | 16 44 | 1 5 | 13 18 | 2 17 | 23 54 | 0 25 | 23 3 | 0 29 | 18 4 | 4 9 | 4 59 | 4 21 | 21 0 | | n.a. |
| W17 | 18 33 | 26 15 | 4 18 | 20 44 | 0n12 | 23 7 | 0 55 | 14 20 | 0 5 | 16 43 | 1 5 | 13 17 | 2 17 | 23 54 | 0 25 | 23 4 | 0 29 | 18 4 | 4 9 | 4 56 | 4 20 | 20 58 | | n.a. |
| T 18 | 18 48 | 28 22 | 4 52 | 20 13 | 0 32 | 23 20 | 0 57 | 14 35 | 0 5 | 16 42 | 1 5 | 13 16 | 2 17 | 23 54 | 0 25 | 23 4 | 0 29 | 18 4 | 4 9 | 4 54 | 4 19 | 20 55 | | n.a. |
| F 19 | 19 4 | 28 38 | 5 8 | 19 39 | 0 53 | 23 32 | 0 59 | 14 49 | 0 4 | 16 41 | 1 6 | 13 14 | 2 17 | 23 54 | 0 25 | 23 4 | 0 29 | 18 4 | 4 9 | 4 51 | 4 17 | 20 53 | | n.a. |
| S 20 | 19 19 | 26 58 | 5 5 | 19 3 | 1 13 | 23 43 | 1 1 | 15 4 | 0 3 | 16 40 | 1 6 | 13 13 | 2 17 | 23 55 | 0 25 | 23 4 | 0 29 | 18 4 | 4 9 | 4 49 | 4 16 | 20 50 | | n.a. |
| S 21 | 19 33 | 23 35 | 4 43 | 18 26 | 1 32 | 23 54 | 1 3 | 15 18 | 0 3 | 16 40 | 1 6 | 13 12 | 2 17 | 23 55 | 0 26 | 23 4 | 0 29 | 18 4 | 4 9 | 4 47 | 4 15 | 20 48 | | n.a. |
| M22 | 19 48 | 18 48 | 4 3 | 17 49 | 1 50 | 24 4 | 1 5 | 15 33 | 0 2 | 16 39 | 1 6 | 13 10 | 2 17 | 23 55 | 0 26 | 23 4 | 0 29 | 18 4 | 4 9 | 4 46 | 4 13 | 20 45 | | n.a. |
| T 23 | 20 2 | 13 2 | 3 10 | 17 14 | 2 7 | 24 14 | 1 7 | 15 47 | 0 2 | 16 38 | 1 7 | 13 9 | 2 17 | 23 55 | 0 26 | 23 4 | 0 29 | 18 3 | 4 8 | 4 46 | 4 12 | 20 43 | | n.a. |
| W24 | 20 15 | 6 39 | 2 5 | 16 40 | 2 22 | 24 22 | 1 9 | 16 1 | 0 1 | 16 38 | 1 7 | 13 8 | 2 16 | 23 55 | 0 26 | 23 4 | 0 29 | 18 3 | 4 8 | 4 47 | 4 11 | 20 40 | | n.a. |
| T 25 | 20 28 | 0 2 | 0 54 | 16 10 | 2 34 | 24 30 | 1 11 | 16 15 | 0 0 | 16 37 | 1 7 | 13 6 | 2 16 | 23 55 | 0 26 | 23 4 | 0 29 | 18 3 | 4 8 | 4 47 | 4 10 | 20 38 | | n.a. |
| F 26 | 20 41 | 6s31 | 0s20 | 15 44 | 2 44 | 24 37 | 1 12 | 16 28 | 0s 0 | 16 37 | 1 8 | 13 5 | 2 16 | 23 55 | 0 26 | 23 4 | 0 29 | 18 3 | 4 8 | 4 47 | 4 8 | 20 35 | | n.a. |
| S 27 | 20 53 | 12 42 | 1 31 | 15 22 | 2 52 | 24 44 | 1 14 | 16 42 | 0 1 | 16 37 | 1 8 | 13 4 | 2 16 | 23 55 | 0 26 | 23 4 | 0 29 | 18 3 | 4 8 | 4 47 | 4 7 | 20 33 | | n.a. |
| S 28 | 21 5 | 18 14 | 2 36 | 15 4 | 2 58 | 24 49 | 1 16 | 16 56 | 0 2 | 16 36 | 1 8 | 13 3 | 2 16 | 23 56 | 0 26 | 23 4 | 0 29 | 18 3 | 4 8 | 4 45 | 4 6 | 20 30 | | n.a. |
| M29 | 21 17 | 22 48 | 3 32 | 14 51 | 3 1 | 24 54 | 1 18 | 17 9 | 0 2 | 16 36 | 1 8 | 13 2 | 2 16 | 23 56 | 0 26 | 23 4 | 0 29 | 18 3 | 4 8 | 4 43 | 4 5 | 20 28 | | n.a. |
| T 30 | 21s28 | 26s11 | 4s16 | 14s43 | 3n 3 | 24s58 | 1s19 | 17s22 | 0s 3 | 16n36 | 1n 9 | 13n 0 | 2s15 | 23n56 | 0n26 | 23n 4 | 0s29 | 18n 3 | 4s 8 | 4n39 | 4n 3 | 20s25 | | n.a. |

Julian Day Number = 1699081.5, Delta T = 03h06m31s
Ecliptic obliquity = 23°42'18, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°54'30, Lahiri = - 4°47'29 Julian Calendar 1 Nov. 62 BCE == Greg. Calendar 30 Oct. 062 BCE

The year -61 astronomical counting style corresponds to year 062 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 62 BCE
# geocentric

## DECEMBER 62 BCE (-61) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 4 26 29 | 6♐34'53 | 21♐18 | 18°R43 | 27♐37 | 18♏31 | 18♌19 | 10°R28 | 7°R13 | 6°R14 | 9°R33 | 11°R28 | 10♈ 5 | 15♒28 | n.a. | W 1 |
| T 2 | 4 30 26 | 7°36'09 | 3♑48 | 18°D39 | 28°52 | 19°15 | 18°20 | 10♉24 | 7♋11 | 6♋12 | 9♊32 | 11♈17 | 10° 2 | 15°35 | n.a. | T 2 |
| F 3 | 4 34 23 | 8°37'26 | 16° 4 | 18♏43 | 0♑ 7 | 19°59 | 18°21 | 10°20 | 7° 9 | 6°11 | 9°31 | 11° 6 | 9°59 | 15°42 | n.a. | F 3 |
| S 4 | 4 38 19 | 9°38'42 | 28° 9 | 18°57 | 1°22 | 20°43 | 18°22 | 10°16 | 7° 7 | 6° 9 | 9°29 | 10°57 | 9°55 | 15°48 | n.a. | S 4 |
| S 5 | 4 42 16 | 10°39'58 | 10♒ 5 | 19°18 | 2°37 | 21°28 | 18°22 | 10°12 | 7° 4 | 6° 8 | 9°28 | 10°50 | 9°52 | 15°55 | n.a. | S 5 |
| M 6 | 4 46 12 | 11°41'14 | 21°55 | 19°47 | 3°51 | 22°12 | 18°22 | 10° 8 | 7° 2 | 6° 6 | 9°27 | 10°45 | 9°49 | 16° 2 | n.a. | M 6 |
| T 7 | 4 50 9 | 12°42'29 | 3♓44 | 20°21 | 5° 6 | 22°57 | 18°R22 | 10° 4 | 7° 0 | 6° 5 | 9°26 | 10°43 | 9°46 | 16° 9 | n.a. | T 7 |
| W 8 | 4 54 5 | 13°43'44 | 15°38 | 21° 2 | 6°21 | 23°41 | 18°22 | 10° 1 | 6°58 | 6° 3 | 9°24 | 10°D42 | 9°43 | 16°15 | n.a. | W 8 |
| T 9 | 4 58 2 | 14°44'58 | 27°41 | 21°47 | 7°36 | 24°26 | 18°22 | 9°57 | 6°55 | 6° 2 | 9°23 | 10°43 | 9°40 | 16°22 | n.a. | T 9 |
| F 10 | 5 1 58 | 15°46'12 | 9♈59 | 22°37 | 8°51 | 25°10 | 18°21 | 9°54 | 6°53 | 6° 0 | 9°22 | 10°R43 | 9°36 | 16°29 | n.a. | F 10 |
| S 11 | 5 5 55 | 16°47'25 | 22°37 | 23°31 | 10° 5 | 25°55 | 18°21 | 9°50 | 6°50 | 5°59 | 9°21 | 10°43 | 9°33 | 16°35 | n.a. | S 11 |
| S 12 | 5 9 52 | 17°48'37 | 5♉39 | 24°29 | 11°20 | 26°39 | 18°20 | 9°47 | 6°48 | 5°57 | 9°20 | 10°40 | 9°30 | 16°42 | n.a. | S 12 |
| M13 | 5 13 48 | 18°49'49 | 19° 7 | 25°30 | 12°35 | 27°24 | 18°19 | 9°43 | 6°46 | 5°55 | 9°18 | 10°35 | 9°27 | 16°49 | n.a. | M13 |
| T 14 | 5 17 45 | 19°51'01 | 3♊ 1 | 26°34 | 13°50 | 28° 9 | 18°17 | 9°40 | 6°43 | 5°54 | 9°17 | 10°27 | 9°24 | 16°55 | n.a. | T 14 |
| W15 | 5 21 41 | 20°52'12 | 17°19 | 27°41 | 15° 4 | 28°54 | 18°16 | 9°37 | 6°41 | 5°52 | 9°16 | 10°16 | 9°20 | 17° 2 | n.a. | W15 |
| T 16 | 5 25 38 | 21°53'22 | 1♋55 | 28°50 | 16°19 | 29°38 | 18°14 | 9°34 | 6°38 | 5°51 | 9°15 | 10° 5 | 9°17 | 17° 9 | n.a. | T 16 |
| F 17 | 5 29 34 | 22°54'33 | 16°42 | 0♐ 1 | 17°33 | 0♐23 | 18°12 | 9°31 | 6°36 | 5°49 | 9°14 | 9°54 | 9°14 | 17°16 | n.a. | F 17 |
| S 18 | 5 33 31 | 23°55'42 | 1♌30 | 1°14 | 18°48 | 1° 8 | 18°10 | 9°28 | 6°33 | 5°47 | 9°12 | 9°44 | 9°11 | 17°22 | n.a. | S 18 |
| S 19 | 5 37 27 | 24°56'51 | 16°12 | 2°28 | 20° 3 | 1°53 | 18° 8 | 9°26 | 6°31 | 5°46 | 9°11 | 9°36 | 9° 8 | 17°29 | n.a. | S 19 |
| M20 | 5 41 24 | 25°58'00 | 0♍42 | 3°45 | 21°17 | 2°38 | 18° 6 | 9°23 | 6°28 | 5°44 | 9°10 | 9°32 | 9° 5 | 17°36 | n.a. | M20 |
| T 21 | 5 45 21 | 26°59'08 | 14°57 | 5° 2 | 22°32 | 3°23 | 18° 3 | 9°20 | 6°26 | 5°42 | 9° 9 | 9°30 | 9° 1 | 17°42 | n.a. | T 21 |
| W22 | 5 49 17 | 28° 0'15 | 28°53 | 6°21 | 23°46 | 4° 8 | 18° 0 | 9°18 | 6°23 | 5°41 | 9° 8 | 9°D29 | 8°58 | 17°49 | n.a. | W22 |
| T 23 | 5 53 14 | 29° 1'23 | 12♎33 | 7°41 | 25° 1 | 4°53 | 17°57 | 9°16 | 6°20 | 5°39 | 9° 7 | 9°R29 | 8°55 | 17°56 | n.a. | T 23 |
| F 24 | 5 57 10 | 0♑ 2'29 | 25°58 | 9° 3 | 26°15 | 5°38 | 17°54 | 9°13 | 6°18 | 5°37 | 9° 5 | 9°28 | 8°52 | 18° 2 | n.a. | F 24 |
| S 25 | 6 1 7 | 1° 3'35 | 9♏ 8 | 10°25 | 27°29 | 6°23 | 17°51 | 9°11 | 6°15 | 5°36 | 9° 4 | 9°25 | 8°49 | 18° 9 | n.a. | S 25 |
| S 26 | 6 5 3 | 2° 4'41 | 22° 6 | 11°49 | 28°44 | 7° 8 | 17°47 | 9° 9 | 6°13 | 5°34 | 9° 3 | 9°20 | 8°46 | 18°16 | n.a. | S 26 |
| M27 | 6 9 0 | 3° 5'46 | 4♐54 | 13°13 | 29°58 | 7°54 | 17°43 | 9° 7 | 6°10 | 5°32 | 9° 2 | 9°11 | 8°42 | 18°22 | n.a. | M27 |
| T 28 | 6 12 57 | 4° 6'50 | 17°31 | 14°38 | 1♒12 | 8°39 | 17°39 | 9° 6 | 6° 7 | 5°30 | 9° 1 | 8°59 | 8°39 | 18°29 | n.a. | T 28 |
| W29 | 6 16 53 | 5° 7'53 | 29°58 | 16° 5 | 2°27 | 9°24 | 17°35 | 9° 4 | 6° 5 | 5°29 | 9° 0 | 8°45 | 8°36 | 18°36 | n.a. | W29 |
| T 30 | 6 20 50 | 6° 8'55 | 12♑15 | 17°32 | 3°41 | 10° 9 | 17°31 | 9° 2 | 6° 2 | 5°27 | 8°59 | 8°30 | 8°33 | 18°43 | n.a. | T 30 |
| F 31 | 6 24 46 | 7♑ 9'56 | 24♑23 | 18♐59 | 4♒55 | 10♐55 | 17♌27 | 9♉ 1 | 6♋ 0 | 5♋25 | 8♊58 | 8♈15 | 8♈30 | 18♒49 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | | ☊ | | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | | decl | | decl | | decl | lat |
| W 1 | 21s39 | 28s10 | 4s46 | 14s40 | 3n 3 | 25s 2 | 1s21 | 17s35 | 0s 4 | 16n36 | 1n 9 | 12n59 | 2s15 | 23n56 | 0n26 | 23n 4 | 0s29 | 18n 2 | 4s 8 | 4n35 | 4n 2 | 20s23 | | | | | n.a. |
| T 2 | 21 49 | 28 41 | 5 2 | 14 40 | 3 1 | 25 4 | 1 22 | 17 48 | 0 4 | 16 36 | 1 9 | 12 58 | 2 15 | 23 56 | 0 26 | 23 4 | 0 29 | 18 2 | 4 8 | 4 31 | 4 1 | 20 20 | | | | | n.a. |
| F 3 | 21 59 | 27 44 | 5 3 | 14 44 | 2 58 | 25 6 | 1 24 | 18 1 | 0 5 | 16 36 | 1 10 | 12 57 | 2 15 | 23 56 | 0 26 | 23 5 | 0 29 | 18 2 | 4 8 | 4 26 | 4 0 | 20 18 | | | | | n.a. |
| S 4 | 22 9 | 25 30 | 4 51 | 14 52 | 2 54 | 25 7 | 1 25 | 18 13 | 0 6 | 16 36 | 1 10 | 12 56 | 2 15 | 23 56 | 0 26 | 23 5 | 0 29 | 18 2 | 4 8 | 4 23 | 3 58 | 20 15 | | | | | n.a. |
| S 5 | 22 18 | 22 11 | 4 26 | 15 2 | 2 49 | 25 7 | 1 27 | 18 26 | 0 6 | 16 36 | 1 10 | 12 55 | 2 14 | 23 57 | 0 26 | 23 5 | 0 29 | 18 2 | 4 8 | 4 20 | 3 57 | 20 12 | | | | | n.a. |
| M 6 | 22 26 | 17 59 | 3 50 | 15 16 | 2 43 | 25 7 | 1 28 | 18 38 | 0 7 | 16 36 | 1 10 | 12 54 | 2 14 | 23 57 | 0 26 | 23 5 | 0 29 | 18 2 | 4 8 | 4 18 | 3 56 | 20 10 | | | | | n.a. |
| T 7 | 22 34 | 13 6 | 3 4 | 15 31 | 2 36 | 25 5 | 1 29 | 18 50 | 0 8 | 16 37 | 1 11 | 12 53 | 2 14 | 23 57 | 0 26 | 23 5 | 0 29 | 18 2 | 4 8 | 4 17 | 3 55 | 20 7 | | | | | n.a. |
| W 8 | 22 42 | 7 43 | 2 10 | 15 49 | 2 29 | 25 3 | 1 30 | 19 2 | 0 8 | 16 37 | 1 11 | 12 52 | 2 14 | 23 57 | 0 26 | 23 5 | 0 29 | 18 2 | 4 8 | 4 17 | 3 53 | 20 5 | | | | | n.a. |
| T 9 | 22 49 | 1 59 | 1 9 | 16 8 | 2 22 | 25 0 | 1 31 | 19 14 | 0 9 | 16 37 | 1 11 | 12 51 | 2 13 | 23 57 | 0 26 | 23 5 | 0 29 | 18 1 | 4 8 | 4 17 | 3 52 | 20 2 | | | | | n.a. |
| F 10 | 22 56 | 3n56 | 0 4 | 16 28 | 2 14 | 24 57 | 1 32 | 19 26 | 0 10 | 16 38 | 1 12 | 12 50 | 2 13 | 23 57 | 0 26 | 23 5 | 0 29 | 18 1 | 4 8 | 4 17 | 3 51 | 20 0 | | | | | n.a. |
| S 11 | 23 2 | 9 52 | 1n 3 | 16 49 | 2 6 | 24 52 | 1 33 | 19 37 | 0 10 | 16 38 | 1 12 | 12 49 | 2 13 | 23 57 | 0 26 | 23 5 | 0 29 | 18 1 | 4 8 | 4 17 | 3 50 | 19 57 | | | | | n.a. |
| S 12 | 23 8 | 15 34 | 2 8 | 17 12 | 1 58 | 24 47 | 1 34 | 19 48 | 0 11 | 16 39 | 1 12 | 12 48 | 2 13 | 23 58 | 0 26 | 23 5 | 0 29 | 18 1 | 4 7 | 4 16 | 3 48 | 19 54 | | | | | n.a. |
| M13 | 23 14 | 20 43 | 3 9 | 17 35 | 1 50 | 24 41 | 1 35 | 19 59 | 0 12 | 16 39 | 1 13 | 12 48 | 2 13 | 23 58 | 0 26 | 23 5 | 0 29 | 18 1 | 4 7 | 4 14 | 3 47 | 19 52 | | | | | n.a. |
| T 14 | 23 19 | 24 55 | 4 0 | 17 58 | 1 41 | 24 34 | 1 36 | 20 10 | 0 13 | 16 40 | 1 13 | 12 47 | 2 12 | 23 58 | 0 26 | 23 5 | 0 29 | 18 1 | 4 7 | 4 11 | 3 46 | 19 49 | | | | | n.a. |
| W15 | 23 23 | 27 42 | 4 38 | 18 22 | 1 32 | 24 27 | 1 37 | 20 21 | 0 13 | 16 41 | 1 13 | 12 46 | 2 12 | 23 58 | 0 26 | 23 5 | 0 29 | 18 1 | 4 7 | 4 7 | 3 44 | 19 47 | | | | | n.a. |
| T 16 | 23 27 | 28 40 | 4 58 | 18 45 | 1 24 | 24 18 | 1 37 | 20 31 | 0 14 | 16 42 | 1 13 | 12 45 | 2 12 | 23 58 | 0 26 | 23 6 | 0 29 | 18 1 | 4 7 | 4 2 | 3 43 | 19 44 | | | | | n.a. |
| F 17 | 23 31 | 27 36 | 4 59 | 19 9 | 1 15 | 24 9 | 1 38 | 20 42 | 0 15 | 16 42 | 1 14 | 12 45 | 2 12 | 23 58 | 0 26 | 23 6 | 0 29 | 18 1 | 4 7 | 3 58 | 3 42 | 19 41 | | | | | n.a. |
| S 18 | 23 34 | 24 36 | 4 40 | 19 33 | 1 7 | 24 0 | 1 38 | 20 52 | 0 15 | 16 43 | 1 14 | 12 44 | 2 11 | 23 58 | 0 26 | 23 6 | 0 29 | 18 0 | 4 7 | 3 54 | 3 41 | 19 39 | | | | | n.a. |
| S 19 | 23 36 | 20 0 | 4 3 | 19 56 | 0 58 | 23 49 | 1 39 | 21 2 | 0 16 | 16 44 | 1 14 | 12 43 | 2 11 | 23 59 | 0 26 | 23 6 | 0 29 | 18 0 | 4 7 | 3 51 | 3 39 | 19 36 | | | | | n.a. |
| M20 | 23 39 | 14 18 | 3 10 | 20 19 | 0 50 | 23 38 | 1 39 | 21 11 | 0 17 | 16 45 | 1 15 | 12 43 | 2 11 | 23 59 | 0 26 | 23 6 | 0 29 | 18 0 | 4 7 | 3 49 | 3 38 | 19 34 | | | | | n.a. |
| T 21 | 23 40 | 7 56 | 2 6 | 20 42 | 0 41 | 23 26 | 1 40 | 21 21 | 0 17 | 16 46 | 1 15 | 12 42 | 2 11 | 23 59 | 0 26 | 23 6 | 0 29 | 18 0 | 4 7 | 3 48 | 3 37 | 19 31 | | | | | n.a. |
| W22 | 23 41 | 1 18 | 0 56 | 21 4 | 0 33 | 23 14 | 1 40 | 21 30 | 0 18 | 16 48 | 1 15 | 12 42 | 2 10 | 23 59 | 0 26 | 23 6 | 0 29 | 18 0 | 4 7 | 3 48 | 3 36 | 19 28 | | | | | n.a. |
| T 23 | 23 42 | 5s16 | 0s16 | 21 26 | 0 25 | 23 0 | 1 40 | 21 39 | 0 19 | 16 49 | 1 15 | 12 41 | 2 10 | 23 59 | 0 26 | 23 6 | 0 29 | 18 0 | 4 7 | 3 48 | 3 34 | 19 26 | | | | | n.a. |
| F 24 | 23 42 | 11 28 | 1 26 | 21 47 | 0 16 | 22 46 | 1 40 | 21 48 | 0 19 | 16 50 | 1 16 | 12 41 | 2 10 | 23 59 | 0 26 | 23 6 | 0 29 | 18 0 | 4 6 | 3 48 | 3 33 | 19 23 | | | | | n.a. |
| S 25 | 23 42 | 17 4 | 2 30 | 22 7 | 0 8 | 22 32 | 1 40 | 21 57 | 0 20 | 16 51 | 1 16 | 12 40 | 2 9 | 23 59 | 0 26 | 23 6 | 0 29 | 18 0 | 4 6 | 3 46 | 3 32 | 19 20 | | | | | n.a. |
| S 26 | 23 41 | 21 47 | 3 25 | 22 27 | 0 1 | 22 16 | 1 40 | 22 5 | 0 21 | 16 53 | 1 16 | 12 40 | 2 9 | 24 0 | 0 26 | 23 6 | 0 29 | 18 0 | 4 6 | 3 44 | 3 31 | 19 18 | | | | | n.a. |
| M27 | 23 40 | 25 25 | 4 8 | 22 45 | 0s 7 | 22 0 | 1 40 | 22 13 | 0 22 | 16 54 | 1 16 | 12 40 | 2 9 | 24 0 | 0 26 | 23 6 | 0 29 | 18 0 | 4 6 | 3 41 | 3 29 | 19 15 | | | | | n.a. |
| T 28 | 23 38 | 27 44 | 4 39 | 23 3 | 0 15 | 21 44 | 1 40 | 22 21 | 0 22 | 16 56 | 1 17 | 12 39 | 2 9 | 24 0 | 0 26 | 23 7 | 0 29 | 18 0 | 4 6 | 3 36 | 3 28 | 19 12 | | | | | n.a. |
| W29 | 23 36 | 28 38 | 4 56 | 23 20 | 0 22 | 21 27 | 1 39 | 22 29 | 0 23 | 16 57 | 1 17 | 12 39 | 2 8 | 24 0 | 0 26 | 23 7 | 0 29 | 18 0 | 4 6 | 3 30 | 3 27 | 19 10 | | | | | n.a. |
| T 30 | 23 34 | 28 5 | 4 59 | 23 36 | 0 29 | 21 9 | 1 39 | 22 37 | 0 24 | 16 59 | 1 17 | 12 39 | 2 8 | 24 0 | 0 26 | 23 7 | 0 29 | 17 59 | 4 6 | 3 24 | 3 26 | 19 7 | | | | | n.a. |
| F 31 | 23s31 | 26s12 | 4s48 | 23s50 | 0s36 | 20s50 | 1s39 | 22s44 | 0s24 | 17n 0 | 1n18 | 12n39 | 2s 8 | 24n 0 | 0n26 | 23n 7 | 0s29 | 17n59 | 4s 6 | 3n19 | 3n24 | 19s 4 | | | | | n.a. |

Julian Day Number = 1699111.5, Delta T = 03h06m30s
Ecliptic obliquity = 23°42'17, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°54'26, Lahiri = - 4°47'25 Julian Calendar 1 Dec. 62 BCE == Greg. Calendar 29 Nov. 062 BCE

The year -61 astronomical counting style corresponds to year 062 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 61 BCE
# geocentric

## JANUARY 61 BCE (-60) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 28 43 | 8♑10'56 | 6♒23 | 20♐28 | 6♒ 9 | 11♐40 | 17°R22 | 9°R 0 | 5°R57 | 5°R24 | 8°R57 | 8°R 2 | 8♈26 | 18♒56 | n.a. | S 1 |
| S 2 | 6 32 39 | 9°11'55 | 18°16 | 21°57 | 7°24 | 12°25 | 17♌17 | 8♉58 | 5♋54 | 5♋22 | 8♊56 | 7♈52 | 8°23 | 19° 3 | n.a. | S 2 |
| M 3 | 6 36 36 | 10°12'52 | 0♓ 4 | 23°28 | 8°38 | 13°11 | 17°12 | 8°57 | 5°52 | 5°20 | 8°55 | 7°44 | 8°20 | 19° 9 | n.a. | M 3 |
| T 4 | 6 40 32 | 11°13'48 | 11°52 | 24°58 | 9°52 | 13°56 | 17° 7 | 8°56 | 5°49 | 5°19 | 8°54 | 7°39 | 8°17 | 19°16 | n.a. | T 4 |
| W 5 | 6 44 29 | 12°14'42 | 23°44 | 26°30 | 11° 6 | 14°42 | 17° 2 | 8°55 | 5°46 | 5°17 | 8°52 | 7°37 | 8°14 | 19°23 | n.a. | W 5 |
| T 6 | 6 48 26 | 13°15'35 | 5♈44 | 28° 2 | 12°20 | 15°27 | 16°57 | 8°54 | 5°44 | 5°15 | 8°52 | 7°37 | 8°11 | 19°29 | n.a. | T 6 |
| F 7 | 6 52 22 | 14°16'26 | 17°58 | 29°35 | 13°34 | 16°13 | 16°51 | 8°54 | 5°41 | 5°14 | 8°51 | 7°37 | 8° 7 | 19°36 | n.a. | F 7 |
| S 8 | 6 56 19 | 15°17'15 | 0♉31 | 1♑ 9 | 14°48 | 16°59 | 16°46 | 8°53 | 5°39 | 5°12 | 8°50 | 7°36 | 8° 4 | 19°43 | n.a. | S 8 |
| S 9 | 7 0 15 | 16°18'03 | 13°29 | 2°44 | 16° 2 | 17°44 | 16°40 | 8°53 | 5°36 | 5°10 | 8°49 | 7°34 | 8° 1 | 19°49 | n.a. | S 9 |
| M10 | 7 4 12 | 17°18'50 | 26°55 | 4°19 | 17°15 | 18°30 | 16°34 | 8°52 | 5°34 | 5° 9 | 8°48 | 7°29 | 7°58 | 19°56 | n.a. | M10 |
| T 11 | 7 8 8 | 18°19'34 | 10♊51 | 5°56 | 18°29 | 19°15 | 16°28 | 8°52 | 5°31 | 5° 7 | 8°47 | 7°21 | 7°55 | 20° 3 | n.a. | T 11 |
| W12 | 7 12 5 | 19°20'18 | 25°16 | 7°32 | 19°43 | 20° 1 | 16°22 | 8°D52 | 5°29 | 5° 5 | 8°46 | 7°11 | 7°52 | 20°10 | n.a. | W12 |
| T 13 | 7 16 1 | 20°20'59 | 10♋ 5 | 9°10 | 20°56 | 20°47 | 16°15 | 8°52 | 5°26 | 5° 4 | 8°45 | 7° 0 | 7°48 | 20°16 | n.a. | T 13 |
| F 14 | 7 19 58 | 21°21'39 | 25°10 | 10°49 | 22°10 | 21°33 | 16° 9 | 8°52 | 5°24 | 5° 2 | 8°44 | 6°48 | 7°45 | 20°23 | n.a. | F 14 |
| S 15 | 7 23 55 | 22°22'18 | 10♌21 | 12°28 | 23°24 | 22°18 | 16° 2 | 8°52 | 5°21 | 5° 1 | 8°43 | 6°38 | 7°42 | 20°30 | n.a. | S 15 |
| S 16 | 7 27 51 | 23°22'55 | 25°27 | 14° 8 | 24°37 | 23° 4 | 15°56 | 8°53 | 5°19 | 4°59 | 8°42 | 6°30 | 7°39 | 20°36 | n.a. | S 16 |
| M17 | 7 31 48 | 24°23'30 | 10♍20 | 15°50 | 25°51 | 23°50 | 15°49 | 8°53 | 5°16 | 4°57 | 8°42 | 6°25 | 7°36 | 20°43 | n.a. | M17 |
| T 18 | 7 35 44 | 25°24'04 | 24°52 | 17°32 | 27° 4 | 24°36 | 15°42 | 8°54 | 5°14 | 4°56 | 8°41 | 6°23 | 7°32 | 20°50 | n.a. | T 18 |
| W19 | 7 39 41 | 26°24'37 | 9♎ 1 | 19°14 | 28°17 | 25°22 | 15°35 | 8°54 | 5°11 | 4°54 | 8°40 | 6°D23 | 7°29 | 20°56 | n.a. | W19 |
| T 20 | 7 43 37 | 27°25'08 | 22°46 | 20°58 | 29°31 | 26° 8 | 15°28 | 8°55 | 5° 9 | 4°53 | 8°39 | 6°R23 | 7°26 | 21° 3 | n.a. | T 20 |
| F 21 | 7 47 34 | 28°25'38 | 6♏ 8 | 22°43 | 0♓44 | 26°54 | 15°21 | 8°56 | 5° 7 | 4°51 | 8°39 | 6°23 | 7°23 | 21°10 | n.a. | F 21 |
| S 22 | 7 51 30 | 29°26'07 | 19°11 | 24°29 | 1°57 | 27°40 | 15°13 | 8°57 | 5° 4 | 4°50 | 8°38 | 6°21 | 7°20 | 21°16 | n.a. | S 22 |
| S 23 | 7 55 27 | 0♒26'34 | 1♐58 | 26°15 | 3°10 | 28°25 | 15° 6 | 8°58 | 5° 2 | 4°48 | 8°37 | 6°17 | 7°17 | 21°23 | n.a. | S 23 |
| M24 | 7 59 24 | 1°27'00 | 14°31 | 28° 3 | 4°23 | 29°12 | 14°59 | 9° 0 | 5° 0 | 4°47 | 8°36 | 6°10 | 7°13 | 21°30 | n.a. | M24 |
| T 25 | 8 3 20 | 2°27'24 | 26°52 | 29°51 | 5°36 | 29°58 | 14°51 | 9° 1 | 4°58 | 4°45 | 8°36 | 6° 0 | 7°10 | 21°36 | n.a. | T 25 |
| W26 | 8 7 17 | 3°27'47 | 9♑ 5 | 1♒40 | 6°49 | 0♑44 | 14°44 | 9° 2 | 4°55 | 4°44 | 8°35 | 5°49 | 7° 7 | 21°43 | n.a. | W26 |
| T 27 | 8 11 13 | 4°28'07 | 21°10 | 3°31 | 8° 2 | 1°30 | 14°36 | 9° 4 | 4°53 | 4°42 | 8°34 | 5°37 | 7° 4 | 21°50 | n.a. | T 27 |
| F 28 | 8 15 10 | 5°28'26 | 3♒ 9 | 5°22 | 9°15 | 2°16 | 14°28 | 9° 6 | 4°51 | 4°41 | 8°34 | 5°24 | 7° 1 | 21°57 | n.a. | F 28 |
| S 29 | 8 19 6 | 6°28'44 | 15° 2 | 7°14 | 10°27 | 3° 2 | 14°21 | 9° 8 | 4°49 | 4°39 | 8°33 | 5°14 | 6°58 | 22° 3 | n.a. | S 29 |
| S 30 | 8 23 3 | 7°28'59 | 26°52 | 9° 7 | 11°40 | 3°48 | 14°13 | 9° 9 | 4°47 | 4°38 | 8°33 | 5° 5 | 6°54 | 22°10 | n.a. | S 30 |
| M31 | 8 26 59 | 8♒29'12 | 8♓40 | 11♒ 1 | 12♓53 | 4♑34 | 14♌ 5 | 9♉12 | 4♋45 | 4♋37 | 8♊32 | 4♈59 | 6♈51 | 22♒17 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23s27 | 23s 8 | 4s24 | 24s 4 | 0s43 | 20s31 | 1s38 | 22s51 | 0s25 | 17n 2 | 1n18 | 12n38 | 2s 7 | 24n 0 | 0n26 | 23n 7 | 0s29 | 17n59 | 4s 6 | 3n13 | 3n23 | 19s 2 | | n.a. |
| S 2 | 23 23 | 19 9 | 3 49 | 24 17 | 0 49 | 20 12 | 1 37 | 22 58 | 0 26 | 17 4 | 1 18 | 12 38 | 2 7 | 24 0 | 0 26 | 23 7 | 0 29 | 17 59 | 4 6 | 3 9 | 3 22 | 18 59 | | n.a. |
| M 3 | 23 18 | 14 26 | 3 4 | 24 28 | 0 56 | 19 52 | 1 37 | 23 4 | 0 26 | 17 6 | 1 18 | 12 38 | 2 7 | 24 1 | 0 26 | 23 7 | 0 29 | 17 59 | 4 5 | 3 6 | 3 20 | 18 56 | | n.a. |
| T 4 | 23 13 | 9 13 | 2 12 | 24 38 | 1 2 | 19 31 | 1 36 | 23 11 | 0 27 | 17 7 | 1 19 | 12 38 | 2 7 | 24 1 | 0 26 | 23 7 | 0 29 | 17 59 | 4 5 | 3 4 | 3 19 | 18 54 | | n.a. |
| W 5 | 23 8 | 3 38 | 1 13 | 24 47 | 1 8 | 19 10 | 1 35 | 23 17 | 0 28 | 17 9 | 1 19 | 12 38 | 2 6 | 24 1 | 0 26 | 23 7 | 0 29 | 17 59 | 4 5 | 3 3 | 3 18 | 18 51 | | n.a. |
| T 6 | 23 2 | 2n 9 | 0 10 | 24 55 | 1 13 | 18 48 | 1 34 | 23 22 | 0 29 | 17 11 | 1 19 | 12 38 | 2 6 | 24 1 | 0 26 | 23 7 | 0 29 | 17 59 | 4 5 | 3 3 | 3 17 | 18 48 | | n.a. |
| F 7 | 22 56 | 7 58 | 0n55 | 25 1 | 1 19 | 18 25 | 1 33 | 23 28 | 0 29 | 17 13 | 1 19 | 12 38 | 2 6 | 24 1 | 0 26 | 23 7 | 0 29 | 17 59 | 4 5 | 3 3 | 3 15 | 18 46 | | n.a. |
| S 8 | 22 49 | 13 37 | 1 58 | 25 6 | 1 24 | 18 3 | 1 32 | 23 33 | 0 30 | 17 15 | 1 20 | 12 38 | 2 5 | 24 1 | 0 26 | 23 7 | 0 29 | 17 59 | 4 5 | 3 3 | 3 14 | 18 43 | | n.a. |
| S 9 | 22 42 | 18 53 | 2 58 | 25 9 | 1 29 | 17 39 | 1 31 | 23 38 | 0 31 | 17 17 | 1 20 | 12 38 | 2 5 | 24 1 | 0 26 | 23 8 | 0 29 | 17 59 | 4 5 | 3 2 | 3 13 | 18 40 | | n.a. |
| M10 | 22 34 | 23 24 | 3 49 | 25 11 | 1 33 | 17 16 | 1 30 | 23 43 | 0 31 | 17 19 | 1 20 | 12 39 | 2 5 | 24 1 | 0 26 | 23 8 | 0 29 | 17 59 | 4 5 | 3 0 | 3 12 | 18 37 | | n.a. |
| T 11 | 22 26 | 26 46 | 4 30 | 25 12 | 1 38 | 16 51 | 1 29 | 23 48 | 0 32 | 17 21 | 1 20 | 12 39 | 2 5 | 24 2 | 0 26 | 23 8 | 0 29 | 17 59 | 4 5 | 2 57 | 3 10 | 18 35 | | n.a. |
| W12 | 22 18 | 28 31 | 4 54 | 25 11 | 1 42 | 16 27 | 1 27 | 23 52 | 0 33 | 17 23 | 1 20 | 12 39 | 2 4 | 24 2 | 0 26 | 23 8 | 0 29 | 17 59 | 4 4 | 2 53 | 3 9 | 18 32 | | n.a. |
| T 13 | 22 9 | 28 18 | 5 0 | 25 8 | 1 45 | 16 2 | 1 26 | 23 56 | 0 34 | 17 25 | 1 21 | 12 39 | 2 4 | 24 2 | 0 26 | 23 8 | 0 29 | 17 59 | 4 4 | 2 48 | 3 8 | 18 29 | | n.a. |
| F 14 | 21 59 | 26 1 | 4 46 | 25 4 | 1 49 | 15 36 | 1 24 | 24 0 | 0 34 | 17 27 | 1 21 | 12 40 | 2 4 | 24 2 | 0 26 | 23 8 | 0 29 | 17 59 | 4 4 | 2 44 | 3 7 | 18 26 | | n.a. |
| S 15 | 21 49 | 21 52 | 4 11 | 24 58 | 1 52 | 15 10 | 1 23 | 24 4 | 0 35 | 17 30 | 1 21 | 12 40 | 2 3 | 24 2 | 0 26 | 23 8 | 0 29 | 17 59 | 4 4 | 2 40 | 3 5 | 18 24 | | n.a. |
| S 16 | 21 39 | 16 17 | 3 19 | 24 50 | 1 54 | 14 44 | 1 21 | 24 7 | 0 36 | 17 32 | 1 21 | 12 40 | 2 3 | 24 2 | 0 26 | 23 8 | 0 29 | 17 59 | 4 4 | 2 37 | 3 4 | 18 21 | | n.a. |
| M17 | 21 29 | 9 50 | 2 13 | 24 41 | 1 57 | 14 17 | 1 19 | 24 10 | 0 36 | 17 34 | 1 21 | 12 41 | 2 3 | 24 2 | 0 26 | 23 8 | 0 29 | 17 59 | 4 4 | 2 35 | 3 3 | 18 18 | | n.a. |
| T 18 | 21 18 | 2 59 | 1 1 | 24 30 | 1 59 | 13 50 | 1 17 | 24 13 | 0 37 | 17 36 | 1 22 | 12 41 | 2 3 | 24 2 | 0 26 | 23 8 | 0 29 | 17 59 | 4 4 | 2 34 | 3 1 | 18 15 | | n.a. |
| W19 | 21 6 | 3s49 | 0s14 | 24 17 | 2 0 | 13 23 | 1 16 | 24 15 | 0 38 | 17 39 | 1 22 | 12 42 | 2 2 | 24 2 | 0 26 | 23 8 | 0 28 | 17 59 | 4 4 | 2 34 | 3 0 | 18 13 | | n.a. |
| T 20 | 20 54 | 10 16 | 1 26 | 24 3 | 2 1 | 12 55 | 1 14 | 24 17 | 0 38 | 17 41 | 1 22 | 12 42 | 2 2 | 24 2 | 0 26 | 23 8 | 0 28 | 17 59 | 4 3 | 2 34 | 2 59 | 18 10 | | n.a. |
| F 21 | 20 42 | 16 5 | 2 31 | 23 46 | 2 2 | 12 27 | 1 12 | 24 19 | 0 39 | 17 43 | 1 22 | 12 43 | 2 2 | 24 3 | 0 26 | 23 8 | 0 28 | 17 59 | 4 3 | 2 34 | 2 58 | 18 7 | | n.a. |
| S 22 | 20 30 | 21 1 | 3 27 | 23 28 | 2 3 | 11 59 | 1 10 | 24 21 | 0 40 | 17 46 | 1 22 | 12 44 | 2 1 | 24 3 | 0 26 | 23 9 | 0 28 | 17 59 | 4 3 | 2 33 | 2 56 | 18 4 | | n.a. |
| S 23 | 20 17 | 24 52 | 4 11 | 23 8 | 2 2 | 11 30 | 1 7 | 24 22 | 0 41 | 17 48 | 1 23 | 12 44 | 2 1 | 24 3 | 0 26 | 23 9 | 0 28 | 17 59 | 4 3 | 2 31 | 2 55 | 18 2 | | n.a. |
| M24 | 20 3 | 27 27 | 4 42 | 22 46 | 2 2 | 11 1 | 1 5 | 24 23 | 0 41 | 17 50 | 1 23 | 12 45 | 2 1 | 24 3 | 0 26 | 23 9 | 0 28 | 17 59 | 4 3 | 2 28 | 2 54 | 17 59 | | n.a. |
| T 25 | 19 50 | 28 39 | 4 59 | 22 22 | 2 1 | 10 32 | 1 3 | 24 24 | 0 42 | 17 53 | 1 23 | 12 46 | 2 0 | 24 3 | 0 26 | 23 9 | 0 28 | 17 59 | 4 3 | 2 25 | 2 53 | 17 56 | | n.a. |
| W26 | 19 36 | 28 25 | 5 2 | 21 57 | 1 59 | 10 2 | 1 0 | 24 25 | 0 43 | 17 55 | 1 23 | 12 46 | 2 0 | 24 3 | 0 26 | 23 9 | 0 28 | 17 59 | 4 3 | 2 20 | 2 51 | 17 53 | | n.a. |
| T 27 | 19 21 | 26 49 | 4 52 | 21 29 | 1 57 | 9 33 | 0 58 | 24 25 | 0 43 | 17 57 | 1 23 | 12 47 | 2 0 | 24 3 | 0 26 | 23 9 | 0 28 | 17 59 | 4 3 | 2 15 | 2 50 | 17 50 | | n.a. |
| F 28 | 19 7 | 24 1 | 4 29 | 20 59 | 1 55 | 9 3 | 0 55 | 24 25 | 0 44 | 18 0 | 1 23 | 12 48 | 2 0 | 24 3 | 0 26 | 23 9 | 0 28 | 17 59 | 4 2 | 2 10 | 2 49 | 17 48 | | n.a. |
| S 29 | 18 52 | 20 13 | 3 54 | 20 28 | 1 52 | 8 33 | 0 53 | 24 25 | 0 45 | 18 2 | 1 23 | 12 49 | 1 59 | 24 3 | 0 26 | 23 9 | 0 28 | 17 59 | 4 2 | 2 6 | 2 48 | 17 45 | | n.a. |
| S 30 | 18 36 | 15 39 | 3 9 | 19 54 | 1 48 | 8 2 | 0 50 | 24 24 | 0 45 | 18 5 | 1 24 | 12 50 | 1 59 | 24 3 | 0 26 | 23 9 | 0 28 | 17 59 | 4 2 | 2 2 | 2 46 | 17 42 | | n.a. |
| M31 | 18s21 | 10s30 | 2s16 | 19s19 | 1s44 | 7s32 | 0s48 | 24s24 | 0s46 | 18n 7 | 1n24 | 12n51 | 1s59 | 24n 3 | 0n26 | 23n 9 | 0s28 | 17n59 | 4s 2 | 2n 0 | 2n45 | 17s39 | | n.a. |

Julian Day Number = 1699142.5, Delta T = 03h06m29s
Ecliptic obliquity = 23°42'17, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°54'22, Lahiri = - 4°47'21 Julian Calendar 1 Jan. 61 BCE == Greg. Calendar 30 Dec. 062 BCE

The year -60 astronomical counting style corresponds to year 061 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 61 BCE
# geocentric

## FEBRUARY 61 BCE (-60) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 30 56 | 9♒29'23 | 20♓29 | 12♒55 | 14♓ 5 | 5♑20 | 13°R57 | 9♉14 | 4°R43 | 4°R35 | 8°R32 | 4°R55 | 6♈48 | 22♒23 | n.a. | T 1 |
| W 2 | 8 34 53 | 10°29'32 | 2♈22 | 14°50 | 15°18 | 6° 6 | 13♌50 | 9°16 | 4♋41 | 4♋34 | 8♊31 | 4°D54 | 6°45 | 22°30 | n.a. | W 2 |
| T 3 | 8 38 49 | 11°29'39 | 14°23 | 16°46 | 16°30 | 6°53 | 13°42 | 9°18 | 4°39 | 4°33 | 8°31 | 4♈54 | 6°42 | 22°37 | n.a. | T 3 |
| F 4 | 8 42 46 | 12°29'43 | 26°36 | 18°41 | 17°42 | 7°39 | 13°34 | 9°21 | 4°37 | 4°32 | 8°30 | 4°55 | 6°38 | 22°43 | n.a. | F 4 |
| S 5 | 8 46 42 | 13°29'46 | 9♉ 6 | 20°38 | 18°54 | 8°25 | 13°26 | 9°23 | 4°35 | 4°30 | 8°30 | 4°R56 | 6°35 | 22°50 | n.a. | S 5 |
| S 6 | 8 50 39 | 14°29'46 | 21°59 | 22°34 | 20° 6 | 9°11 | 13°18 | 9°26 | 4°33 | 4°29 | 8°29 | 4°56 | 6°32 | 22°57 | n.a. | S 6 |
| M 7 | 8 54 35 | 15°29'44 | 5♊18 | 24°30 | 21°18 | 9°58 | 13°10 | 9°29 | 4°31 | 4°28 | 8°29 | 4°54 | 6°29 | 23° 3 | n.a. | M 7 |
| T 8 | 8 58 32 | 16°29'39 | 19° 5 | 26°25 | 22°30 | 10°44 | 13° 3 | 9°32 | 4°30 | 4°27 | 8°29 | 4°50 | 6°26 | 23°10 | n.a. | T 8 |
| W 9 | 9 2 28 | 17°29'33 | 3♋23 | 28°20 | 23°42 | 11°30 | 12°55 | 9°35 | 4°28 | 4°26 | 8°28 | 4°44 | 6°23 | 23°17 | n.a. | W 9 |
| T 10 | 9 6 25 | 18°29'24 | 18° 7 | 0♓14 | 24°54 | 12°16 | 12°47 | 9°38 | 4°26 | 4°24 | 8°28 | 4°37 | 6°19 | 23°23 | n.a. | T 10 |
| F 11 | 9 10 22 | 19°29'13 | 3♌12 | 2° 6 | 26° 6 | 13° 3 | 12°39 | 9°41 | 4°25 | 4°23 | 8°28 | 4°30 | 6°16 | 23°30 | n.a. | F 11 |
| S 12 | 9 14 18 | 20°28'59 | 18°28 | 3°56 | 27°17 | 13°49 | 12°32 | 9°44 | 4°23 | 4°22 | 8°27 | 4°24 | 6°13 | 23°37 | n.a. | S 12 |
| S 13 | 9 18 15 | 21°28'44 | 3♍45 | 5°44 | 28°29 | 14°35 | 12°24 | 9°48 | 4°21 | 4°21 | 8°27 | 4°19 | 6°10 | 23°43 | n.a. | S 13 |
| M14 | 9 22 11 | 22°28'26 | 18°53 | 7°29 | 29°40 | 15°21 | 12°16 | 9°51 | 4°20 | 4°20 | 8°27 | 4°16 | 6° 7 | 23°50 | n.a. | M14 |
| T 15 | 9 26 8 | 23°28'07 | 3♎42 | 9°11 | 0♈51 | 16° 8 | 12° 9 | 9°55 | 4°19 | 4°19 | 8°27 | 4°D15 | 6° 4 | 23°57 | n.a. | T 15 |
| W16 | 9 30 4 | 24°27'45 | 18° 7 | 10°50 | 2° 3 | 16°54 | 12° 1 | 9°58 | 4°17 | 4°18 | 8°26 | 4°16 | 6° 0 | 24° 3 | n.a. | W16 |
| T 17 | 9 34 1 | 25°27'22 | 2♏ 5 | 12°24 | 3°14 | 17°41 | 11°54 | 10° 2 | 4°16 | 4°17 | 8°26 | 4°17 | 5°57 | 24°10 | n.a. | T 17 |
| F 18 | 9 37 57 | 26°26'57 | 15°36 | 13°53 | 4°25 | 18°27 | 11°46 | 10° 6 | 4°14 | 4°16 | 8°26 | 4°18 | 5°54 | 24°17 | n.a. | F 18 |
| S 19 | 9 41 54 | 27°26'30 | 28°43 | 15°17 | 5°35 | 19°13 | 11°39 | 10°10 | 4°13 | 4°15 | 8°26 | 4°R19 | 5°51 | 24°24 | n.a. | S 19 |
| S 20 | 9 45 51 | 28°26'01 | 11♐28 | 16°36 | 6°46 | 20° 0 | 11°32 | 10°14 | 4°12 | 4°15 | 8°26 | 4°18 | 5°48 | 24°30 | n.a. | S 20 |
| M21 | 9 49 47 | 29°25'31 | 23°56 | 17°49 | 7°57 | 20°46 | 11°24 | 10°18 | 4°11 | 4°14 | 8°26 | 4°16 | 5°44 | 24°37 | n.a. | M21 |
| T 22 | 9 53 44 | 0♓24'59 | 6♑11 | 18°55 | 9° 7 | 21°32 | 11°17 | 10°22 | 4°10 | 4°13 | 8°26 | 4°12 | 5°41 | 24°44 | n.a. | T 22 |
| W23 | 9 57 40 | 1°24'24 | 18°14 | 19°55 | 10°18 | 22°19 | 11°10 | 10°27 | 4° 9 | 4°12 | 8°D26 | 4° 6 | 5°38 | 24°50 | n.a. | W23 |
| T 24 | 10 1 37 | 2°23'48 | 0♒11 | 20°48 | 11°28 | 23° 5 | 11° 3 | 10°31 | 4° 8 | 4°11 | 8°26 | 4° 0 | 5°35 | 24°57 | n.a. | T 24 |
| F 25 | 10 5 33 | 3°23'10 | 12° 3 | 21°33 | 12°38 | 23°52 | 10°57 | 10°35 | 4° 7 | 4°11 | 8°26 | 3°55 | 5°32 | 25° 4 | n.a. | F 25 |
| S 26 | 10 9 30 | 4°22'29 | 23°52 | 22°11 | 13°48 | 24°38 | 10°50 | 10°40 | 4° 6 | 4°10 | 8°26 | 3°50 | 5°29 | 25°10 | n.a. | S 26 |
| S 27 | 10 13 26 | 5°21'47 | 5♓41 | 22°42 | 14°58 | 25°24 | 10°43 | 10°45 | 4° 5 | 4° 9 | 8°26 | 3°46 | 5°25 | 25°17 | n.a. | S 27 |
| M28 | 10 17 23 | 6°21'02 | 17°32 | 23° 5 | 16° 8 | 26°11 | 10°37 | 10°49 | 4° 4 | 4° 9 | 8°26 | 3°43 | 5°22 | 25°24 | n.a. | M28 |
| T 29 | 10 21 20 | 7♓20'15 | 29♓26 | 23♓21 | 17♈18 | 26♑57 | 10♌30 | 10♉54 | 4♋ 3 | 4♋ 8 | 8♊26 | 3°D42 | 5♈19 | 25♒30 | n.a. | T 29 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 18s 4 | 4s59 | 1s17 | 18s42 | 1s39 | 7s 1 | 0s45 | 24s22 | 0s47 | 18n 9 | 1n24 | 12n52 | 1s58 | 24n 3 | 0n26 | 23n 9 | 0s28 | 17n59 | 4s 2 | 1n59 | 2n44 | 17s36 | | n.a. |
| W 2 | 17 48 | 0n45 | 0 14 | 18 3 | 1 33 | 6 30 | 0 42 | 24 21 | 0 47 | 18 12 | 1 24 | 12 53 | 1 58 | 24 4 | 0 26 | 23 9 | 0 28 | 17 59 | 4 2 | 1 58 | 2 42 | 17 34 | | n.a. |
| T 3 | 17 32 | 6 31 | 0n51 | 17 22 | 1 27 | 5 59 | 0 39 | 24 19 | 0 48 | 18 14 | 1 24 | 12 54 | 1 58 | 24 4 | 0 26 | 23 9 | 0 28 | 17 59 | 4 2 | 1 58 | 2 41 | 17 31 | | n.a. |
| F 4 | 17 15 | 12 8 | 1 54 | 16 40 | 1 21 | 5 28 | 0 36 | 24 18 | 0 49 | 18 17 | 1 24 | 12 55 | 1 58 | 24 4 | 0 26 | 23 9 | 0 28 | 18 0 | 4 1 | 1 59 | 2 40 | 17 28 | | n.a. |
| S 5 | 16 57 | 17 25 | 2 54 | 15 56 | 1 13 | 4 57 | 0 33 | 24 15 | 0 49 | 18 19 | 1 24 | 12 56 | 1 57 | 24 4 | 0 26 | 23 10 | 0 28 | 18 0 | 4 1 | 1 59 | 2 39 | 17 25 | | n.a. |
| S 6 | 16 40 | 22 6 | 3 46 | 15 10 | 1 5 | 4 25 | 0 30 | 24 13 | 0 50 | 18 21 | 1 24 | 12 57 | 1 57 | 24 4 | 0 26 | 23 10 | 0 28 | 18 0 | 4 1 | 1 59 | 2 37 | 17 22 | | n.a. |
| M 7 | 16 22 | 25 49 | 4 28 | 14 23 | 0 57 | 3 54 | 0 27 | 24 10 | 0 51 | 18 24 | 1 24 | 12 58 | 1 57 | 24 4 | 0 26 | 23 10 | 0 28 | 18 0 | 4 1 | 1 58 | 2 36 | 17 19 | | n.a. |
| T 8 | 16 4 | 28 11 | 4 57 | 13 35 | 0 47 | 3 22 | 0 24 | 24 7 | 0 51 | 18 26 | 1 24 | 12 59 | 1 56 | 24 4 | 0 26 | 23 10 | 0 28 | 18 0 | 4 1 | 1 56 | 2 35 | 17 16 | | n.a. |
| W 9 | 15 46 | 28 47 | 5 8 | 12 46 | 0 37 | 2 51 | 0 21 | 24 4 | 0 52 | 18 28 | 1 24 | 13 0 | 1 56 | 24 4 | 0 26 | 23 10 | 0 28 | 18 0 | 4 1 | 1 54 | 2 34 | 17 14 | | n.a. |
| T 10 | 15 27 | 27 25 | 5 0 | 11 56 | 0 27 | 2 19 | 0 17 | 24 0 | 0 53 | 18 31 | 1 25 | 13 2 | 1 56 | 24 4 | 0 26 | 23 10 | 0 28 | 18 0 | 4 1 | 1 51 | 2 32 | 17 11 | | n.a. |
| F 11 | 15 8 | 24 2 | 4 31 | 11 5 | 0 16 | 1 47 | 0 14 | 23 57 | 0 53 | 18 33 | 1 25 | 13 3 | 1 56 | 24 4 | 0 26 | 23 10 | 0 28 | 18 0 | 4 0 | 1 49 | 2 31 | 17 8 | | n.a. |
| S 12 | 14 49 | 18 58 | 3 42 | 10 14 | 0 4 | 1 15 | 0 11 | 23 53 | 0 54 | 18 35 | 1 25 | 13 4 | 1 55 | 24 4 | 0 26 | 23 10 | 0 28 | 18 0 | 4 0 | 1 46 | 2 30 | 17 5 | | n.a. |
| S 13 | 14 30 | 12 41 | 2 38 | 9 23 | 0n 8 | 0 44 | 0 7 | 23 48 | 0 55 | 18 37 | 1 25 | 13 6 | 1 55 | 24 4 | 0 26 | 23 10 | 0 28 | 18 0 | 4 0 | 1 44 | 2 28 | 17 2 | | n.a. |
| M14 | 14 10 | 5 42 | 1 22 | 8 32 | 0 20 | 0 12 | 0 4 | 23 44 | 0 55 | 18 40 | 1 25 | 13 7 | 1 55 | 24 4 | 0 26 | 23 10 | 0 28 | 18 0 | 4 0 | 1 43 | 2 27 | 16 59 | | n.a. |
| T 15 | 13 51 | 1s26 | 0 3 | 7 42 | 0 33 | 0n20 | 0 1 | 23 39 | 0 56 | 18 42 | 1 25 | 13 8 | 1 55 | 24 4 | 0 26 | 23 10 | 0 28 | 18 1 | 4 0 | 1 43 | 2 26 | 16 56 | | n.a. |
| W16 | 13 31 | 8 20 | 1s15 | 6 53 | 0 46 | 0 52 | 0n 3 | 23 34 | 0 57 | 18 44 | 1 25 | 13 10 | 1 54 | 24 4 | 0 26 | 23 10 | 0 28 | 18 1 | 4 0 | 1 43 | 2 25 | 16 53 | | n.a. |
| T 17 | 13 11 | 14 36 | 2 25 | 6 4 | 0 59 | 1 24 | 0 6 | 23 28 | 0 57 | 18 46 | 1 25 | 13 11 | 1 54 | 24 4 | 0 26 | 23 10 | 0 28 | 18 1 | 4 0 | 1 43 | 2 23 | 16 51 | | n.a. |
| F 18 | 12 50 | 19 58 | 3 26 | 5 17 | 1 13 | 1 55 | 0 10 | 23 23 | 0 58 | 18 48 | 1 25 | 13 13 | 1 54 | 24 4 | 0 26 | 23 10 | 0 28 | 18 1 | 3 59 | 1 44 | 2 22 | 16 48 | | n.a. |
| S 19 | 12 30 | 24 13 | 4 14 | 4 32 | 1 26 | 2 27 | 0 14 | 23 17 | 0 59 | 18 50 | 1 25 | 13 14 | 1 53 | 24 4 | 0 26 | 23 10 | 0 28 | 18 1 | 3 59 | 1 44 | 2 21 | 16 45 | | n.a. |
| S 20 | 12 9 | 27 9 | 4 47 | 3 49 | 1 39 | 2 59 | 0 17 | 23 10 | 0 59 | 18 52 | 1 25 | 13 16 | 1 53 | 24 4 | 0 26 | 23 10 | 0 28 | 18 1 | 3 59 | 1 44 | 2 20 | 16 42 | | n.a. |
| M21 | 11 48 | 28 40 | 5 6 | 3 9 | 1 53 | 3 30 | 0 21 | 23 4 | 1 0 | 18 54 | 1 25 | 13 17 | 1 53 | 24 4 | 0 26 | 23 10 | 0 28 | 18 1 | 3 59 | 1 43 | 2 18 | 16 39 | | n.a. |
| T 22 | 11 27 | 28 44 | 5 11 | 2 31 | 2 5 | 4 2 | 0 25 | 22 57 | 1 0 | 18 56 | 1 25 | 13 19 | 1 53 | 24 4 | 0 26 | 23 11 | 0 28 | 18 1 | 3 59 | 1 41 | 2 17 | 16 36 | | n.a. |
| W23 | 11 6 | 27 26 | 5 2 | 1 56 | 2 18 | 4 33 | 0 28 | 22 50 | 1 1 | 18 58 | 1 25 | 13 20 | 1 52 | 24 4 | 0 26 | 23 11 | 0 28 | 18 2 | 3 59 | 1 39 | 2 16 | 16 33 | | n.a. |
| T 24 | 10 44 | 24 53 | 4 40 | 1 24 | 2 29 | 5 5 | 0 32 | 22 43 | 1 2 | 19 0 | 1 25 | 13 22 | 1 52 | 24 4 | 0 26 | 23 11 | 0 28 | 18 2 | 3 59 | 1 37 | 2 14 | 16 30 | | n.a. |
| F 25 | 10 23 | 21 18 | 4 6 | 0 56 | 2 40 | 5 36 | 0 36 | 22 36 | 1 2 | 19 2 | 1 25 | 13 24 | 1 52 | 24 4 | 0 26 | 23 11 | 0 28 | 18 2 | 3 58 | 1 34 | 2 13 | 16 27 | | n.a. |
| S 26 | 10 1 | 16 52 | 3 21 | 0 31 | 2 51 | 6 7 | 0 40 | 22 28 | 1 3 | 19 4 | 1 25 | 13 25 | 1 52 | 24 4 | 0 26 | 23 11 | 0 28 | 18 2 | 3 58 | 1 32 | 2 12 | 16 24 | | n.a. |
| S 27 | 9 39 | 11 49 | 2 28 | 0 10 | 3 0 | 6 38 | 0 43 | 22 20 | 1 4 | 19 6 | 1 25 | 13 27 | 1 51 | 24 4 | 0 26 | 23 11 | 0 28 | 18 2 | 3 58 | 1 31 | 2 11 | 16 21 | | n.a. |
| M28 | 9 17 | 6 19 | 1 28 | 0n 6 | 3 8 | 7 8 | 0 47 | 22 12 | 1 4 | 19 7 | 1 25 | 13 29 | 1 51 | 24 5 | 0 26 | 23 11 | 0 28 | 18 2 | 3 58 | 1 30 | 2 9 | 16 19 | | n.a. |
| T 29 | 8s55 | 0s35 | 0s23 | 0n19 | 3n16 | 7n39 | 0n51 | 22s 3 | 1s 5 | 19n 9 | 1n25 | 13n30 | 1s51 | 24n 5 | 0n26 | 23n11 | 0s28 | 18n 3 | 3s58 | 1n29 | 2n 8 | 16s16 | | n.a. |

Julian Day Number = 1699173.5, Delta T = 03h06m28s
Ecliptic obliquity = 23°42'18, Nutation = - 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°54'17, Lahiri = - 4°47'17 Julian Calendar 1 Feb. 61 BCE == Greg. Calendar 30 Jan. 061 BCE


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# ASTRODIENST EPHEMERIS for the year 61 BCE
# geocentric

## MARCH 61 BCE (-60) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 10 25 16 | 8♓19'26 | 11♈25 | 23♓29 | 18♈28 | 27♉43 | 10°R24 | 10♉59 | 4°R 2 | 4°R 8 | 8♊26 | 3♈42 | 5♈16 | 25♒37 | n.a. | W 1 |
| T 2 | 10 29 13 | 9°18'35 | 23°33 | 23°R30 | 19°37 | 28°30 | 10♌18 | 11° 4 | 4♋ 2 | 4♋ 7 | 8°26 | 3°43 | 5°13 | 25°44 | n.a. | T 2 |
| F 3 | 10 33 9 | 10°17'41 | 5♉53 | 23°24 | 20°46 | 29°16 | 10°12 | 11° 9 | 4° 1 | 4° 7 | 8°27 | 3°45 | 5°10 | 25°50 | n.a. | F 3 |
| S 4 | 10 37 6 | 11°16'45 | 18°28 | 23°11 | 21°55 | 0♒ 3 | 10° 6 | 11°14 | 4° 0 | 4° 6 | 8°27 | 3°46 | 5° 6 | 25°57 | n.a. | S 4 |
| S 5 | 10 41 2 | 12°15'46 | 1♊21 | 22°51 | 23° 5 | 0°49 | 10° 0 | 11°20 | 4° 0 | 4° 6 | 8°27 | 3°47 | 5° 3 | 26° 4 | n.a. | S 5 |
| M 6 | 10 44 59 | 13°14'46 | 14°36 | 22°26 | 24°13 | 1°35 | 9°55 | 11°25 | 4° 0 | 4° 5 | 8°27 | 3°R48 | 5° 0 | 26°10 | n.a. | M 6 |
| T 7 | 10 48 55 | 14°13'42 | 28°15 | 21°55 | 25°22 | 2°22 | 9°49 | 11°30 | 3°59 | 4° 5 | 8°28 | 3°47 | 4°57 | 26°17 | n.a. | T 7 |
| W 8 | 10 52 52 | 15°12'37 | 12♋19 | 21°20 | 26°31 | 3° 8 | 9°44 | 11°36 | 3°59 | 4° 5 | 8°28 | 3°46 | 4°54 | 26°24 | n.a. | W 8 |
| T 9 | 10 56 48 | 16°11'29 | 26°48 | 20°41 | 27°39 | 3°54 | 9°39 | 11°41 | 3°58 | 4° 4 | 8°28 | 3°44 | 4°50 | 26°30 | n.a. | T 9 |
| F 10 | 11 0 45 | 17°10'19 | 11♌38 | 19°59 | 28°47 | 4°41 | 9°34 | 11°47 | 3°58 | 4° 4 | 8°29 | 3°42 | 4°47 | 26°37 | n.a. | F 10 |
| S 11 | 11 4 42 | 18° 9'06 | 26°41 | 19°14 | 29°56 | 5°27 | 9°29 | 11°53 | 3°58 | 4° 4 | 8°29 | 3°40 | 4°44 | 26°44 | n.a. | S 11 |
| S 12 | 11 8 38 | 19° 7'51 | 11♍51 | 18°28 | 1♉ 3 | 6°13 | 9°24 | 11°58 | 3°58 | 4° 4 | 8°29 | 3°38 | 4°41 | 26°50 | n.a. | S 12 |
| M13 | 11 12 35 | 20° 6'34 | 26°56 | 17°42 | 2°11 | 6°59 | 9°20 | 12° 4 | 3°58 | 4° 4 | 8°30 | 3°D38 | 4°38 | 26°57 | n.a. | M13 |
| T 14 | 11 16 31 | 21° 5'15 | 11♎49 | 16°57 | 3°19 | 7°46 | 9°16 | 12°10 | 3°D58 | 4° 3 | 8°30 | 3°38 | 4°35 | 27° 4 | n.a. | T 14 |
| W15 | 11 20 28 | 22° 3'53 | 26°23 | 16°12 | 4°26 | 8°32 | 9°11 | 12°16 | 3°58 | 4° 3 | 8°31 | 3°38 | 4°31 | 27°10 | n.a. | W15 |
| T 16 | 11 24 24 | 23° 2'31 | 10♏31 | 15°30 | 5°33 | 9°18 | 9° 7 | 12°22 | 3°58 | 4° 3 | 8°31 | 3°39 | 4°28 | 27°17 | n.a. | T 16 |
| F 17 | 11 28 21 | 24° 1'06 | 24°12 | 14°50 | 6°40 | 10° 5 | 9° 3 | 12°28 | 3°58 | 4° 3 | 8°32 | 3°40 | 4°25 | 27°24 | n.a. | F 17 |
| S 18 | 11 32 17 | 24°59'39 | 7♐28 | 14°14 | 7°47 | 10°51 | 9° 0 | 12°34 | 3°58 | 4°D 3 | 8°32 | 3°41 | 4°22 | 27°30 | n.a. | S 18 |
| S 19 | 11 36 14 | 25°58'11 | 20°19 | 13°42 | 8°54 | 11°37 | 8°56 | 12°40 | 3°58 | 4° 3 | 8°33 | 3°41 | 4°19 | 27°37 | n.a. | S 19 |
| M20 | 11 40 11 | 26°56'42 | 2♑49 | 13°14 | 10° 0 | 12°23 | 8°53 | 12°47 | 3°59 | 4° 3 | 8°33 | 3°R41 | 4°15 | 27°44 | n.a. | M20 |
| T 21 | 11 44 7 | 27°55'10 | 15° 3 | 12°50 | 11° 7 | 13° 9 | 8°50 | 12°53 | 3°59 | 4° 3 | 8°34 | 3°41 | 4°12 | 27°50 | n.a. | T 21 |
| W22 | 11 48 4 | 28°53'37 | 27° 4 | 12°31 | 12°13 | 13°56 | 8°47 | 12°59 | 3°59 | 4° 4 | 8°35 | 3°40 | 4° 9 | 27°57 | n.a. | W22 |
| T 23 | 11 52 0 | 29°52'02 | 8♒57 | 12°18 | 13°19 | 14°42 | 8°44 | 13° 6 | 4° 0 | 4° 4 | 8°35 | 3°40 | 4° 6 | 28° 4 | n.a. | T 23 |
| F 24 | 11 55 57 | 0♈50'25 | 20°46 | 12° 9 | 14°24 | 15°28 | 8°41 | 13°12 | 4° 0 | 4° 4 | 8°36 | 3°39 | 4° 3 | 28°11 | n.a. | F 24 |
| S 25 | 11 59 53 | 1°48'46 | 2♓35 | 12°D 5 | 15°30 | 16°14 | 8°39 | 13°19 | 4° 1 | 4° 4 | 8°36 | 3°39 | 4° 0 | 28°17 | n.a. | S 25 |
| S 26 | 12 3 50 | 2°47'06 | 14°26 | 12° 7 | 16°35 | 17° 0 | 8°36 | 13°25 | 4° 1 | 4° 4 | 8°37 | 3°39 | 3°56 | 28°24 | n.a. | S 26 |
| M27 | 12 7 46 | 3°45'23 | 26°21 | 12°13 | 17°40 | 17°46 | 8°34 | 13°32 | 4° 2 | 4° 5 | 8°38 | 3°39 | 3°53 | 28°31 | n.a. | M27 |
| T 28 | 12 11 43 | 4°43'39 | 8♈24 | 12°24 | 18°44 | 18°32 | 8°32 | 13°39 | 4° 3 | 4° 5 | 8°39 | 3°39 | 3°50 | 28°37 | n.a. | T 28 |
| W29 | 12 15 40 | 5°41'53 | 20°35 | 12°40 | 19°49 | 19°18 | 8°31 | 13°45 | 4° 3 | 4° 5 | 8°39 | 3°39 | 3°47 | 28°44 | n.a. | W29 |
| T 30 | 12 19 36 | 6°40'05 | 2♉57 | 13° 0 | 20°53 | 20° 4 | 8°29 | 13°52 | 4° 4 | 4° 6 | 8°40 | 3°39 | 3°44 | 28°51 | n.a. | T 30 |
| F 31 | 12 23 33 | 7♈38'16 | 15♉32 | 13♓25 | 21♉57 | 20♒50 | 8♌28 | 13♉59 | 4♋ 5 | 4♋ 6 | 8♊41 | 3♈38 | 3♈41 | 28♒57 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| W 1 | 8s32 | 5n13 | 0n42 | 0n28 | 3n22 | 8n 9 | 0n55 | 21s55 | 1s 5 | 19n11 | 1n24 | 13n32 | 1s51 | 24n 5 | 0n26 | 23n11 | 0s28 | 18n 3 | 3s58 | 1n29 | 2n 7 | 16s13 | | | n.a. |
| T 2 | 8 10 | 10 54 | 1 47 | 0 33 | 3 27 | 8 40 | 0 59 | 21 46 | 1 6 | 19 12 | 1 24 | 13 34 | 1 50 | 24 5 | 0 26 | 23 11 | 0 27 | 18 3 | 3 57 | 1 30 | 2 6 | 16 10 | | | n.a. |
| F 3 | 7 47 | 16 16 | 2 48 | 0 33 | 3 30 | 9 10 | 1 3 | 21 37 | 1 6 | 19 14 | 1 24 | 13 36 | 1 50 | 24 5 | 0 26 | 23 11 | 0 27 | 18 3 | 3 57 | 1 30 | 2 4 | 16 7 | | | n.a. |
| S 4 | 7 25 | 21 4 | 3 42 | 0 30 | 3 32 | 9 39 | 1 6 | 21 27 | 1 7 | 19 16 | 1 24 | 13 38 | 1 50 | 24 5 | 0 26 | 23 11 | 0 27 | 18 3 | 3 57 | 1 31 | 2 3 | 16 4 | | | n.a. |
| S 5 | 7 2 | 25 0 | 4 27 | 0 22 | 3 32 | 10 9 | 1 10 | 21 18 | 1 8 | 19 17 | 1 24 | 13 39 | 1 50 | 24 5 | 0 26 | 23 11 | 0 27 | 18 3 | 3 57 | 1 31 | 2 2 | 16 1 | | | n.a. |
| M 6 | 6 39 | 27 44 | 4 58 | 0 11 | 3 30 | 10 38 | 1 14 | 21 8 | 1 8 | 19 19 | 1 24 | 13 41 | 1 50 | 24 5 | 0 26 | 23 11 | 0 27 | 18 4 | 3 57 | 1 32 | 2 0 | 15 58 | | | n.a. |
| T 7 | 6 16 | 28 56 | 5 14 | 0s 4 | 3 27 | 11 8 | 1 18 | 20 58 | 1 9 | 19 20 | 1 24 | 13 43 | 1 49 | 24 5 | 0 26 | 23 11 | 0 27 | 18 4 | 3 57 | 1 31 | 1 59 | 15 55 | | | n.a. |
| W 8 | 5 53 | 28 18 | 5 12 | 0 23 | 3 22 | 11 36 | 1 22 | 20 48 | 1 9 | 19 21 | 1 24 | 13 45 | 1 49 | 24 5 | 0 26 | 23 11 | 0 27 | 18 4 | 3 57 | 1 31 | 1 58 | 15 52 | | | n.a. |
| T 9 | 5 30 | 25 47 | 4 51 | 0 44 | 3 16 | 12 5 | 1 26 | 20 37 | 1 10 | 19 23 | 1 24 | 13 47 | 1 49 | 24 5 | 0 26 | 23 11 | 0 27 | 18 4 | 3 56 | 1 30 | 1 57 | 15 49 | | | n.a. |
| F 10 | 5 7 | 21 28 | 4 9 | 1 8 | 3 8 | 12 33 | 1 29 | 20 27 | 1 10 | 19 24 | 1 24 | 13 49 | 1 49 | 24 5 | 0 26 | 23 11 | 0 27 | 18 4 | 3 56 | 1 29 | 1 55 | 15 46 | | | n.a. |
| S 11 | 4 44 | 15 44 | 3 10 | 1 35 | 2 58 | 13 1 | 1 33 | 20 16 | 1 11 | 19 25 | 1 24 | 13 51 | 1 48 | 24 5 | 0 26 | 23 11 | 0 27 | 18 5 | 3 56 | 1 28 | 1 54 | 15 43 | | | n.a. |
| S 12 | 4 21 | 9 0 | 1 58 | 2 3 | 2 47 | 13 29 | 1 37 | 20 5 | 1 11 | 19 26 | 1 24 | 13 53 | 1 48 | 24 5 | 0 26 | 23 11 | 0 27 | 18 5 | 3 56 | 1 28 | 1 53 | 15 40 | | | n.a. |
| M13 | 3 58 | 1 48 | 0 37 | 2 32 | 2 35 | 13 56 | 1 41 | 19 53 | 1 12 | 19 27 | 1 23 | 13 55 | 1 48 | 24 5 | 0 26 | 23 11 | 0 27 | 18 5 | 3 56 | 1 27 | 1 52 | 15 37 | | | n.a. |
| T 14 | 3 34 | 5s25 | 0s45 | 3 2 | 2 22 | 14 23 | 1 44 | 19 42 | 1 13 | 19 28 | 1 23 | 13 57 | 1 48 | 24 4 | 0 26 | 23 11 | 0 27 | 18 5 | 3 56 | 1 27 | 1 50 | 15 34 | | | n.a. |
| W15 | 3 11 | 12 12 | 2 3 | 3 33 | 2 8 | 14 50 | 1 48 | 19 30 | 1 13 | 19 30 | 1 23 | 13 59 | 1 48 | 24 4 | 0 26 | 23 11 | 0 27 | 18 5 | 3 56 | 1 28 | 1 49 | 15 31 | | | n.a. |
| T 16 | 2 48 | 18 9 | 3 11 | 4 3 | 1 53 | 15 16 | 1 52 | 19 18 | 1 14 | 19 30 | 1 23 | 14 1 | 1 47 | 24 4 | 0 26 | 23 11 | 0 27 | 18 6 | 3 55 | 1 28 | 1 48 | 15 28 | | | n.a. |
| F 17 | 2 24 | 22 59 | 4 5 | 4 33 | 1 37 | 15 42 | 1 56 | 19 6 | 1 14 | 19 31 | 1 23 | 14 3 | 1 47 | 24 4 | 0 26 | 23 11 | 0 27 | 18 6 | 3 55 | 1 28 | 1 46 | 15 25 | | | n.a. |
| S 18 | 2 1 | 26 28 | 4 45 | 5 2 | 1 21 | 16 8 | 1 59 | 18 54 | 1 15 | 19 32 | 1 23 | 14 5 | 1 47 | 24 4 | 0 26 | 23 11 | 0 27 | 18 6 | 3 55 | 1 29 | 1 45 | 15 22 | | | n.a. |
| S 19 | 1 37 | 28 29 | 5 9 | 5 29 | 1 5 | 16 33 | 2 3 | 18 42 | 1 15 | 19 33 | 1 23 | 14 7 | 1 47 | 24 4 | 0 26 | 23 12 | 0 27 | 18 6 | 3 55 | 1 29 | 1 44 | 15 19 | | | n.a. |
| M20 | 1 14 | 28 58 | 5 17 | 5 55 | 0 48 | 16 58 | 2 6 | 18 29 | 1 16 | 19 34 | 1 23 | 14 9 | 1 47 | 24 4 | 0 26 | 23 12 | 0 27 | 18 7 | 3 55 | 1 29 | 1 43 | 15 16 | | | n.a. |
| T 21 | 0 50 | 28 0 | 5 11 | 6 19 | 0 32 | 17 23 | 2 10 | 18 16 | 1 16 | 19 35 | 1 22 | 14 11 | 1 46 | 24 4 | 0 26 | 23 12 | 0 27 | 18 7 | 3 55 | 1 29 | 1 41 | 15 13 | | | n.a. |
| W22 | 0 27 | 25 44 | 4 51 | 6 41 | 0 16 | 17 47 | 2 13 | 18 3 | 1 17 | 19 35 | 1 22 | 14 13 | 1 46 | 24 4 | 0 26 | 23 12 | 0 27 | 18 7 | 3 55 | 1 29 | 1 40 | 15 10 | | | n.a. |
| T 23 | 0 3 | 22 23 | 4 19 | 7 1 | 0 1 | 18 11 | 2 17 | 17 50 | 1 17 | 19 36 | 1 22 | 14 16 | 1 46 | 24 4 | 0 26 | 23 12 | 0 27 | 18 7 | 3 54 | 1 28 | 1 39 | 15 7 | | | n.a. |
| F 24 | 0n20 | 18 8 | 3 36 | 7 18 | 0s15 | 18 34 | 2 20 | 17 37 | 1 17 | 19 36 | 1 22 | 14 18 | 1 46 | 24 4 | 0 26 | 23 12 | 0 27 | 18 7 | 3 54 | 1 28 | 1 38 | 15 4 | | | n.a. |
| S 25 | 0 44 | 13 13 | 2 44 | 7 33 | 0 29 | 18 57 | 2 23 | 17 23 | 1 18 | 19 37 | 1 22 | 14 20 | 1 46 | 24 4 | 0 26 | 23 12 | 0 27 | 18 8 | 3 54 | 1 28 | 1 36 | 15 1 | | | n.a. |
| S 26 | 1 7 | 7 48 | 1 45 | 7 46 | 0 43 | 19 19 | 2 27 | 17 9 | 1 18 | 19 37 | 1 22 | 14 22 | 1 45 | 24 4 | 0 26 | 23 12 | 0 27 | 18 8 | 3 54 | 1 28 | 1 35 | 14 58 | | | n.a. |
| M27 | 1 31 | 2 5 | 0 40 | 7 56 | 0 57 | 19 41 | 2 30 | 16 56 | 1 19 | 19 38 | 1 22 | 14 24 | 1 45 | 24 4 | 0 26 | 23 12 | 0 27 | 18 8 | 3 54 | 1 28 | 1 34 | 14 55 | | | n.a. |
| T 28 | 1 54 | 3n46 | 0n26 | 8 3 | 1 10 | 20 2 | 2 33 | 16 42 | 1 19 | 19 38 | 1 21 | 14 26 | 1 45 | 24 4 | 0 26 | 23 12 | 0 27 | 18 8 | 3 54 | 1 28 | 1 32 | 14 52 | | | n.a. |
| W29 | 2 17 | 9 33 | 1 33 | 8 8 | 1 22 | 20 23 | 2 36 | 16 27 | 1 20 | 19 39 | 1 21 | 14 29 | 1 45 | 24 4 | 0 26 | 23 12 | 0 27 | 18 9 | 3 54 | 1 28 | 1 31 | 14 49 | | | n.a. |
| T 30 | 2 41 | 15 4 | 2 36 | 8 11 | 1 33 | 20 44 | 2 39 | 16 13 | 1 20 | 19 39 | 1 21 | 14 31 | 1 45 | 24 4 | 0 26 | 23 12 | 0 27 | 18 9 | 3 53 | 1 28 | 1 30 | 14 46 | | | n.a. |
| F 31 | 3n 4 | 20n 3 | 3n32 | 8s11 | 1s44 | 21n 4 | 2n42 | 15s59 | 1s20 | 19n39 | 1n21 | 14n33 | 1s45 | 24n 4 | 0n26 | 23n12 | 0s27 | 18n 9 | 3s53 | 1n28 | 1n29 | 14s43 | | | n.a. |

Julian Day Number = 1699202.5, Delta T = 03h06m27s
Ecliptic obliquity = 23°42'18, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°54'13, Lahiri = - 4°47'13 Julian Calendar 1 March 61 BCE == Greg. Calendar 28 Feb. 061 BCE

The year -60 astronomical counting style corresponds to year 061 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 61 BCE
# geocentric

## APRIL 61 BCE (-60) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 27 29 | 8♈36'24 | 28♉20 | 13♓54 | 23♉ 1 | 21♒36 | 8°R27 | 14♉ 6 | 4♋ 6 | 4♋ 7 | 8♊42 | 3°R38 | 3♈37 | 29♒ 4 | n.a. | S 1 |
| S 2 | 12 31 26 | 9°34'30 | 11♊23 | 14°28 | 24° 4 | 22°22 | 8♌26 | 14°13 | 4° 7 | 4° 7 | 8°43 | 3♈37 | 3°34 | 29°11 | n.a. | S 2 |
| M 3 | 12 35 22 | 10°32'34 | 24°43 | 15° 5 | 25° 8 | 23° 8 | 8°25 | 14°20 | 4° 8 | 4° 8 | 8°43 | 3°36 | 3°31 | 29°17 | n.a. | M 3 |
| T 4 | 12 39 19 | 11°30'37 | 8♋21 | 15°46 | 26°10 | 23°54 | 8°24 | 14°27 | 4° 9 | 4° 8 | 8°44 | 3°D36 | 3°28 | 29°24 | n.a. | T 4 |
| W 5 | 12 43 15 | 12°28'37 | 22°17 | 16°31 | 27°13 | 24°39 | 8°24 | 14°34 | 4°10 | 4° 9 | 8°45 | 3°36 | 3°25 | 29°31 | n.a. | W 5 |
| T 6 | 12 47 12 | 13°26'35 | 6♌31 | 17°19 | 28°15 | 25°25 | 8°23 | 14°41 | 4°11 | 4° 9 | 8°46 | 3°37 | 3°21 | 29°37 | n.a. | T 6 |
| F 7 | 12 51 9 | 14°24'31 | 21° 0 | 18°11 | 29°17 | 26°11 | 8°D23 | 14°48 | 4°13 | 4°10 | 8°47 | 3°38 | 3°18 | 29°44 | n.a. | F 7 |
| S 8 | 12 55 5 | 15°22'25 | 5♍41 | 19° 5 | 0♊19 | 26°57 | 8°23 | 14°55 | 4°14 | 4°11 | 8°48 | 3°38 | 3°15 | 29°51 | n.a. | S 8 |
| S 9 | 12 59 2 | 16°20'18 | 20°29 | 20° 3 | 1°20 | 27°42 | 8°24 | 15° 3 | 4°15 | 4°12 | 8°49 | 3°39 | 3°12 | 29°57 | n.a. | S 9 |
| M10 | 13 2 58 | 17°18'08 | 5♎17 | 21° 4 | 2°21 | 28°28 | 8°24 | 15°10 | 4°17 | 4°12 | 8°50 | 3°R39 | 3° 9 | 0♓ 4 | n.a. | M10 |
| T 11 | 13 6 55 | 18°15'57 | 19°58 | 22° 8 | 3°22 | 29°14 | 8°25 | 15°17 | 4°18 | 4°13 | 8°51 | 3°39 | 3° 6 | 0°11 | n.a. | T 11 |
| W12 | 13 10 51 | 19°13'44 | 4♏25 | 23°15 | 4°22 | 29°59 | 8°26 | 15°25 | 4°20 | 4°14 | 8°52 | 3°38 | 3° 2 | 0°17 | n.a. | W12 |
| T 13 | 13 14 48 | 20°11'30 | 18°33 | 24°25 | 5°22 | 0♓45 | 8°27 | 15°32 | 4°21 | 4°15 | 8°53 | 3°36 | 2°59 | 0°24 | n.a. | T 13 |
| F 14 | 13 18 44 | 21° 9'15 | 2♐18 | 25°37 | 6°21 | 1°30 | 8°28 | 15°39 | 4°23 | 4°16 | 8°54 | 3°34 | 2°56 | 0°31 | n.a. | F 14 |
| S 15 | 13 22 41 | 22° 6'58 | 15°37 | 26°51 | 7°20 | 2°16 | 8°29 | 15°47 | 4°24 | 4°17 | 8°55 | 3°31 | 2°53 | 0°37 | n.a. | S 15 |
| S 16 | 13 26 37 | 23° 4'40 | 28°33 | 28° 9 | 8°19 | 3° 1 | 8°31 | 15°54 | 4°26 | 4°17 | 8°56 | 3°29 | 2°50 | 0°44 | n.a. | S 16 |
| M17 | 13 30 34 | 24° 2'21 | 11♑ 8 | 29°28 | 9°17 | 3°46 | 8°32 | 16° 2 | 4°28 | 4°18 | 8°57 | 3°28 | 2°47 | 0°51 | n.a. | M17 |
| T 18 | 13 34 31 | 25° 0'01 | 23°24 | 0♈51 | 10°15 | 4°32 | 8°34 | 16° 9 | 4°29 | 4°19 | 8°58 | 3°D27 | 2°43 | 0°57 | n.a. | T 18 |
| W19 | 13 38 27 | 25°57'39 | 5♒26 | 2°15 | 11°12 | 5°17 | 8°36 | 16°17 | 4°31 | 4°20 | 9° 0 | 3°27 | 2°40 | 1° 4 | n.a. | W19 |
| T 20 | 13 42 24 | 26°55'17 | 17°19 | 3°42 | 12° 9 | 6° 2 | 8°39 | 16°24 | 4°33 | 4°22 | 9° 1 | 3°28 | 2°37 | 1°11 | n.a. | T 20 |
| F 21 | 13 46 20 | 27°52'53 | 29° 8 | 5°11 | 13° 5 | 6°48 | 8°41 | 16°32 | 4°35 | 4°23 | 9° 2 | 3°30 | 2°34 | 1°17 | n.a. | F 21 |
| S 22 | 13 50 17 | 28°50'28 | 10♓58 | 6°43 | 14° 1 | 7°33 | 8°44 | 16°40 | 4°37 | 4°24 | 9° 3 | 3°32 | 2°31 | 1°24 | n.a. | S 22 |
| S 23 | 13 54 13 | 29°48'02 | 22°52 | 8°17 | 14°57 | 8°18 | 8°47 | 16°47 | 4°39 | 4°25 | 9° 4 | 3°33 | 2°27 | 1°31 | n.a. | S 23 |
| M24 | 13 58 10 | 0♉45'35 | 4♈54 | 9°53 | 15°52 | 9° 3 | 8°49 | 16°55 | 4°41 | 4°26 | 9° 5 | 3°R33 | 2°24 | 1°37 | n.a. | M24 |
| T 25 | 14 2 6 | 1°43'07 | 17° 7 | 11°32 | 16°46 | 9°48 | 8°53 | 17° 3 | 4°43 | 4°27 | 9° 7 | 3°33 | 2°21 | 1°44 | n.a. | T 25 |
| W26 | 14 6 3 | 2°40'37 | 29°33 | 13°12 | 17°40 | 10°33 | 8°56 | 17°10 | 4°45 | 4°28 | 9° 8 | 3°30 | 2°18 | 1°51 | n.a. | W26 |
| T 27 | 14 10 0 | 3°38'07 | 12♉13 | 14°55 | 18°33 | 11°18 | 8°59 | 17°18 | 4°47 | 4°30 | 9° 9 | 3°27 | 2°15 | 1°57 | n.a. | T 27 |
| F 28 | 14 13 56 | 4°35'35 | 25° 8 | 16°41 | 19°26 | 12° 3 | 9° 3 | 17°26 | 4°49 | 4°31 | 9°10 | 3°22 | 2°12 | 2° 4 | n.a. | F 28 |
| S 29 | 14 17 53 | 5°33'03 | 8♊17 | 18°28 | 20°17 | 12°48 | 9° 7 | 17°34 | 4°52 | 4°32 | 9°12 | 3°17 | 2° 8 | 2°11 | n.a. | S 29 |
| S 30 | 14 21 49 | 6♉30'29 | 21♊40 | 20♈18 | 21♊ 9 | 13♓33 | 9♌11 | 17♉41 | 4♋54 | 4♋34 | 9♊13 | 3♈12 | 2♈ 5 | 2♓17 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 3n27 | 24n13 | 4n19 | 8s 9 | 1s54 | 21n23 | 2n45 | 15s44 | 1s21 | 19n39 | 1n21 | 14n35 | 1s44 | 24n 4 | 0n26 | 23n12 | 0s27 | 18n 9 | 3s53 | 1n27 | 1n27 | 14s40 | | n.a. |
| S 2 | 3 50 | 27 14 | 4 54 | 8 4 | 2 3 | 21 42 | 2 48 | 15 29 | 1 21 | 19 39 | 1 21 | 14 37 | 1 44 | 24 4 | 0 26 | 23 12 | 0 27 | 18 10 | 3 53 | 1 27 | 1 26 | 14 37 | | n.a. |
| M 3 | 4 13 | 28 49 | 5 13 | 7 58 | 2 12 | 22 1 | 2 51 | 15 15 | 1 22 | 19 39 | 1 21 | 14 40 | 1 44 | 24 4 | 0 26 | 23 12 | 0 27 | 18 10 | 3 53 | 1 27 | 1 25 | 14 34 | | n.a. |
| T 4 | 4 36 | 28 42 | 5 16 | 7 48 | 2 19 | 22 19 | 2 53 | 15 0 | 1 22 | 19 39 | 1 20 | 14 42 | 1 44 | 24 4 | 0 26 | 23 12 | 0 27 | 18 10 | 3 53 | 1 27 | 1 24 | 14 31 | | n.a. |
| W 5 | 4 59 | 26 47 | 5 0 | 7 37 | 2 26 | 22 36 | 2 56 | 14 44 | 1 22 | 19 39 | 1 20 | 14 44 | 1 44 | 24 4 | 0 25 | 23 12 | 0 27 | 18 11 | 3 53 | 1 27 | 1 22 | 14 27 | | n.a. |
| T 6 | 5 22 | 23 9 | 4 26 | 7 24 | 2 32 | 22 53 | 2 58 | 14 29 | 1 23 | 19 39 | 1 20 | 14 46 | 1 44 | 24 4 | 0 25 | 23 12 | 0 27 | 18 11 | 3 52 | 1 27 | 1 21 | 14 24 | | n.a. |
| F 7 | 5 44 | 18 3 | 3 35 | 7 8 | 2 38 | 23 9 | 3 1 | 14 14 | 1 23 | 19 39 | 1 20 | 14 49 | 1 43 | 24 4 | 0 25 | 23 12 | 0 27 | 18 11 | 3 52 | 1 27 | 1 20 | 14 21 | | n.a. |
| S 8 | 6 7 | 11 50 | 2 29 | 6 51 | 2 43 | 23 25 | 3 3 | 13 58 | 1 24 | 19 39 | 1 20 | 14 51 | 1 43 | 24 4 | 0 25 | 23 12 | 0 26 | 18 11 | 3 52 | 1 28 | 1 18 | 14 18 | | n.a. |
| S 9 | 6 30 | 4 55 | 1 12 | 6 32 | 2 47 | 23 40 | 3 5 | 13 43 | 1 24 | 19 39 | 1 20 | 14 53 | 1 43 | 24 4 | 0 25 | 23 12 | 0 26 | 18 12 | 3 52 | 1 28 | 1 17 | 14 15 | | n.a. |
| M10 | 6 52 | 2s16 | 0s 9 | 6 10 | 2 50 | 23 55 | 3 7 | 13 27 | 1 24 | 19 38 | 1 19 | 14 55 | 1 43 | 24 4 | 0 25 | 23 12 | 0 26 | 18 12 | 3 52 | 1 28 | 1 16 | 14 12 | | n.a. |
| T 11 | 7 14 | 9 16 | 1 29 | 5 47 | 2 53 | 24 9 | 3 9 | 13 11 | 1 25 | 19 38 | 1 19 | 14 58 | 1 43 | 24 3 | 0 25 | 23 12 | 0 26 | 18 12 | 3 52 | 1 28 | 1 15 | 14 9 | | n.a. |
| W12 | 7 37 | 15 40 | 2 42 | 5 22 | 2 55 | 24 23 | 3 11 | 12 55 | 1 25 | 19 38 | 1 19 | 15 0 | 1 43 | 24 3 | 0 25 | 23 12 | 0 26 | 18 12 | 3 52 | 1 28 | 1 13 | 14 6 | | n.a. |
| T 13 | 7 59 | 21 7 | 3 43 | 4 56 | 2 56 | 24 36 | 3 13 | 12 39 | 1 25 | 19 37 | 1 19 | 15 2 | 1 43 | 24 3 | 0 25 | 23 12 | 0 26 | 18 13 | 3 52 | 1 27 | 1 12 | 14 3 | | n.a. |
| F 14 | 8 21 | 25 15 | 4 30 | 4 27 | 2 56 | 24 48 | 3 15 | 12 23 | 1 25 | 19 37 | 1 19 | 15 5 | 1 42 | 24 3 | 0 25 | 23 12 | 0 26 | 18 13 | 3 51 | 1 26 | 1 11 | 14 0 | | n.a. |
| S 15 | 8 42 | 27 54 | 5 0 | 3 57 | 2 56 | 25 0 | 3 16 | 12 7 | 1 26 | 19 36 | 1 19 | 15 7 | 1 42 | 24 3 | 0 25 | 23 12 | 0 26 | 18 13 | 3 51 | 1 25 | 1 9 | 13 57 | | n.a. |
| S 16 | 9 4 | 28 56 | 5 14 | 3 26 | 2 56 | 25 11 | 3 18 | 11 51 | 1 26 | 19 36 | 1 18 | 15 9 | 1 42 | 24 3 | 0 25 | 23 12 | 0 26 | 18 14 | 3 51 | 1 24 | 1 8 | 13 53 | | n.a. |
| M17 | 9 26 | 28 25 | 5 13 | 2 52 | 2 54 | 25 22 | 3 19 | 11 34 | 1 26 | 19 35 | 1 18 | 15 11 | 1 42 | 24 3 | 0 25 | 23 12 | 0 26 | 18 14 | 3 51 | 1 23 | 1 7 | 13 50 | | n.a. |
| T 18 | 9 47 | 26 31 | 4 57 | 2 18 | 2 52 | 25 32 | 3 20 | 11 18 | 1 27 | 19 34 | 1 18 | 15 14 | 1 42 | 24 3 | 0 25 | 23 12 | 0 26 | 18 14 | 3 51 | 1 23 | 1 6 | 13 47 | | n.a. |
| W19 | 10 8 | 23 27 | 4 28 | 1 41 | 2 50 | 25 41 | 3 21 | 11 1 | 1 27 | 19 34 | 1 18 | 15 16 | 1 42 | 24 3 | 0 25 | 23 12 | 0 26 | 18 14 | 3 51 | 1 23 | 1 4 | 13 44 | | n.a. |
| T 20 | 10 29 | 19 25 | 3 48 | 1 3 | 2 47 | 25 50 | 3 22 | 10 45 | 1 27 | 19 33 | 1 18 | 15 18 | 1 42 | 24 3 | 0 25 | 23 12 | 0 26 | 18 15 | 3 51 | 1 24 | 1 3 | 13 41 | | n.a. |
| F 21 | 10 50 | 14 41 | 2 58 | 0 24 | 2 43 | 25 58 | 3 23 | 10 28 | 1 27 | 19 32 | 1 18 | 15 21 | 1 42 | 24 3 | 0 25 | 23 12 | 0 26 | 18 15 | 3 51 | 1 24 | 1 2 | 13 38 | | n.a. |
| S 22 | 11 11 | 9 24 | 2 1 | 0n16 | 2 39 | 26 6 | 3 23 | 10 11 | 1 28 | 19 31 | 1 17 | 15 23 | 1 41 | 24 3 | 0 25 | 23 12 | 0 26 | 18 15 | 3 51 | 1 25 | 1 1 | 13 35 | | n.a. |
| S 23 | 11 32 | 3 45 | 0 59 | 0 58 | 2 34 | 26 13 | 3 24 | 9 54 | 1 28 | 19 30 | 1 17 | 15 25 | 1 41 | 24 3 | 0 25 | 23 12 | 0 26 | 18 16 | 3 50 | 1 26 | 0 59 | 13 32 | | n.a. |
| M24 | 11 52 | 2n 5 | 0n 7 | 1 41 | 2 28 | 26 20 | 3 24 | 9 37 | 1 28 | 19 29 | 1 17 | 15 27 | 1 41 | 24 2 | 0 25 | 23 12 | 0 26 | 18 16 | 3 50 | 1 26 | 0 58 | 13 29 | | n.a. |
| T 25 | 12 12 | 7 56 | 1 14 | 2 26 | 2 22 | 26 26 | 3 24 | 9 20 | 1 28 | 19 28 | 1 17 | 15 30 | 1 41 | 24 2 | 0 25 | 23 12 | 0 26 | 18 16 | 3 50 | 1 25 | 0 57 | 13 25 | | n.a. |
| W26 | 12 32 | 13 35 | 2 18 | 3 11 | 2 16 | 26 31 | 3 24 | 9 3 | 1 29 | 19 27 | 1 17 | 15 32 | 1 41 | 24 2 | 0 25 | 23 12 | 0 26 | 18 16 | 3 50 | 1 25 | 0 55 | 13 22 | | n.a. |
| T 27 | 12 52 | 18 46 | 3 16 | 3 58 | 2 9 | 26 36 | 3 24 | 8 46 | 1 29 | 19 26 | 1 16 | 15 34 | 1 41 | 24 2 | 0 25 | 23 12 | 0 26 | 18 17 | 3 50 | 1 23 | 0 54 | 13 19 | | n.a. |
| F 28 | 13 12 | 23 13 | 4 5 | 4 46 | 2 1 | 26 40 | 3 24 | 8 29 | 1 29 | 19 25 | 1 16 | 15 37 | 1 41 | 24 2 | 0 25 | 23 12 | 0 26 | 18 17 | 3 50 | 1 21 | 0 53 | 13 16 | | n.a. |
| S 29 | 13 31 | 26 35 | 4 43 | 5 35 | 1 53 | 26 44 | 3 23 | 8 12 | 1 29 | 19 24 | 1 16 | 15 39 | 1 41 | 24 2 | 0 25 | 23 12 | 0 26 | 18 17 | 3 50 | 1 19 | 0 52 | 13 13 | | n.a. |
| S 30 | 13n50 | 28n31 | 5n 5 | 6n24 | 1s45 | 26n47 | 3n23 | 7s55 | 1s29 | 19n23 | 1n16 | 15n41 | 1s41 | 24n 2 | 0n25 | 23n12 | 0s26 | 18n18 | 3s50 | 1n17 | 0n50 | 13s10 | | n.a. |

Julian Day Number = 1699233.5, Delta T = 03h06m26s
Ecliptic obliquity = 23°42'18, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°54'09, Lahiri = - 4°47'09 Julian Calendar 1 Apr. 61 BCE == Greg. Calendar 30 March 061 BCE


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# ASTRODIENST EPHEMERIS for the year 61 BCE
# geocentric

## MAY 61 BCE (-60) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 14 25 46 | 7♉27'53 | 5♋15 | 22♈10 | 21♊59 | 14♓17 | 9♌15 | 17♉49 | 4♋56 | 4♋35 | 9♊14 | 3°R 8 | 2♈ 2 | 2♓24 | n.a. | M 1 |
| T 2 | 14 29 42 | 8°25'17 | 19° 2 | 24° 4 | 22°49 | 15° 2 | 9°19 | 17°57 | 4°59 | 4°36 | 9°16 | 3♈ 5 | 1°59 | 2°31 | n.a. | T 2 |
| W 3 | 14 33 39 | 9°22'39 | 2♌59 | 26° 0 | 23°39 | 15°47 | 9°23 | 18° 5 | 5° 1 | 4°38 | 9°17 | 3°D 4 | 1°56 | 2°37 | n.a. | W 3 |
| T 4 | 14 37 36 | 10°20'00 | 17° 6 | 27°59 | 24°27 | 16°31 | 9°28 | 18°13 | 5° 3 | 4°39 | 9°18 | 3° 4 | 1°52 | 2°44 | n.a. | T 4 |
| F 5 | 14 41 32 | 11°17'19 | 1♍20 | 29°59 | 25°15 | 17°16 | 9°33 | 18°20 | 5° 6 | 4°41 | 9°20 | 3° 5 | 1°49 | 2°51 | n.a. | F 5 |
| S 6 | 14 45 29 | 12°14'38 | 15°40 | 2♉ 2 | 26° 2 | 18° 0 | 9°38 | 18°28 | 5° 8 | 4°42 | 9°21 | 3° 6 | 1°46 | 2°57 | n.a. | S 6 |
| S 7 | 14 49 25 | 13°11'55 | 0♎ 3 | 4° 6 | 26°48 | 18°44 | 9°43 | 18°36 | 5°11 | 4°44 | 9°22 | 3°R 7 | 1°43 | 3° 4 | n.a. | S 7 |
| M 8 | 14 53 22 | 14° 9'11 | 14°26 | 6°12 | 27°33 | 19°29 | 9°48 | 18°44 | 5°14 | 4°45 | 9°24 | 3° 6 | 1°40 | 3°11 | n.a. | M 8 |
| T 9 | 14 57 18 | 15° 6'26 | 28°44 | 8°19 | 28°17 | 20°13 | 9°53 | 18°52 | 5°16 | 4°47 | 9°25 | 3° 4 | 1°37 | 3°17 | n.a. | T 9 |
| W10 | 15 1 15 | 16° 3'40 | 12♏52 | 10°28 | 29° 0 | 20°57 | 9°59 | 19° 0 | 5°19 | 4°48 | 9°26 | 3° 0 | 1°33 | 3°24 | n.a. | W10 |
| T 11 | 15 5 11 | 17° 0'54 | 26°46 | 12°38 | 29°43 | 21°41 | 10° 4 | 19° 7 | 5°22 | 4°50 | 9°28 | 2°54 | 1°30 | 3°31 | n.a. | T 11 |
| F 12 | 15 9 8 | 17°58'07 | 10♐22 | 14°48 | 0♋24 | 22°26 | 10°10 | 19°15 | 5°24 | 4°52 | 9°29 | 2°47 | 1°27 | 3°37 | n.a. | F 12 |
| S 13 | 15 13 5 | 18°55'19 | 23°38 | 17° 0 | 1° 4 | 23°10 | 10°16 | 19°23 | 5°27 | 4°53 | 9°31 | 2°39 | 1°24 | 3°44 | n.a. | S 13 |
| S 14 | 15 17 1 | 19°52'31 | 6♑32 | 19°11 | 1°43 | 23°54 | 10°22 | 19°31 | 5°30 | 4°55 | 9°32 | 2°32 | 1°21 | 3°51 | n.a. | S 14 |
| M15 | 15 20 58 | 20°49'42 | 19° 7 | 21°23 | 2°22 | 24°37 | 10°28 | 19°39 | 5°33 | 4°57 | 9°33 | 2°26 | 1°18 | 3°57 | n.a. | M15 |
| T 16 | 15 24 54 | 21°46'53 | 1♒24 | 23°34 | 2°58 | 25°21 | 10°35 | 19°47 | 5°36 | 4°58 | 9°35 | 2°22 | 1°14 | 4° 4 | n.a. | T 16 |
| W17 | 15 28 51 | 22°44'04 | 13°27 | 25°46 | 3°34 | 26° 5 | 10°41 | 19°55 | 5°39 | 5° 0 | 9°36 | 2°20 | 1°11 | 4°11 | n.a. | W17 |
| T 18 | 15 32 47 | 23°41'15 | 25°20 | 27°56 | 4° 8 | 26°49 | 10°48 | 20° 3 | 5°41 | 5° 2 | 9°38 | 2°D20 | 1° 8 | 4°17 | n.a. | T 18 |
| F 19 | 15 36 44 | 24°38'25 | 7♓10 | 0♊ 5 | 4°41 | 27°33 | 10°55 | 20°10 | 5°44 | 5° 4 | 9°39 | 2°20 | 1° 5 | 4°24 | n.a. | F 19 |
| S 20 | 15 40 40 | 25°35'35 | 19° 0 | 2°13 | 5°13 | 28°16 | 11° 2 | 20°18 | 5°47 | 5° 5 | 9°41 | 2°21 | 1° 2 | 4°31 | n.a. | S 20 |
| S 21 | 15 44 37 | 26°32'44 | 0♈57 | 4°20 | 5°43 | 29° 0 | 11° 9 | 20°26 | 5°50 | 5° 7 | 9°42 | 2°R22 | 0°58 | 4°37 | n.a. | S 21 |
| M22 | 15 48 34 | 27°29'54 | 13° 5 | 6°26 | 6°12 | 29°43 | 11°16 | 20°34 | 5°54 | 5° 9 | 9°44 | 2°21 | 0°55 | 4°44 | n.a. | M22 |
| T 23 | 15 52 30 | 28°27'03 | 25°26 | 8°29 | 6°39 | 0♈26 | 11°23 | 20°42 | 5°57 | 5°11 | 9°45 | 2°19 | 0°52 | 4°50 | n.a. | T 23 |
| W24 | 15 56 27 | 29°24'12 | 8♉ 6 | 10°31 | 7° 5 | 1°10 | 11°30 | 20°50 | 6° 0 | 5°13 | 9°46 | 2°14 | 0°49 | 4°57 | n.a. | W24 |
| T 25 | 16 0 23 | 0♊21'22 | 21° 4 | 12°31 | 7°29 | 1°53 | 11°38 | 20°57 | 6° 3 | 5°15 | 9°48 | 2° 7 | 0°46 | 5° 4 | n.a. | T 25 |
| F 26 | 16 4 20 | 1°18'31 | 4♊21 | 14°29 | 7°52 | 2°36 | 11°46 | 21° 5 | 6° 6 | 5°17 | 9°49 | 1°58 | 0°43 | 5°10 | n.a. | F 26 |
| S 27 | 16 8 16 | 2°15'39 | 17°54 | 16°25 | 8°12 | 3°19 | 11°53 | 21°13 | 6° 9 | 5°18 | 9°51 | 1°48 | 0°39 | 5°17 | n.a. | S 27 |
| S 28 | 16 12 13 | 3°12'48 | 1♋42 | 18°19 | 8°31 | 4° 2 | 12° 1 | 21°21 | 6°12 | 5°20 | 9°52 | 1°39 | 0°36 | 5°24 | n.a. | S 28 |
| M29 | 16 16 9 | 4° 9'56 | 15°41 | 20°11 | 8°48 | 4°45 | 12° 9 | 21°29 | 6°16 | 5°22 | 9°54 | 1°30 | 0°33 | 5°30 | n.a. | M29 |
| T 30 | 16 20 6 | 5° 7'04 | 29°47 | 22° 1 | 9° 3 | 5°28 | 12°17 | 21°36 | 6°19 | 5°24 | 9°55 | 1°24 | 0°30 | 5°37 | n.a. | T 30 |
| W31 | 16 24 3 | 6♊ 4'11 | 13♌56 | 23♊49 | 9♋16 | 6♈11 | 12♌26 | 21♉44 | 6♋22 | 5♋26 | 9♊57 | 1♈19 | 0♈27 | 5♓44 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| M 1 | 14n 9 | 28n47 | 5n11 | 7n15 | 1s36 | 26n49 | 3n22 | 7s37 | 1s29 | 19n21 | 1n16 | 15n43 | 1s40 | 24n 2 | 0n25 | 23n12 | 0s26 | 18n18 | 3s50 | 1n16 | 0n49 | 13s 7 | | | n.a. |
| T 2 | 14 28 | 27 17 | 5 0 | 8 6 | 1 27 | 26 51 | 3 21 | 7 20 | 1 30 | 19 20 | 1 16 | 15 46 | 1 40 | 24 2 | 0 25 | 23 12 | 0 26 | 18 18 | 3 49 | 1 14 | 0 48 | 13 3 | | | n.a. |
| W 3 | 14 47 | 24 5 | 4 30 | 8 58 | 1 17 | 26 52 | 3 20 | 7 3 | 1 30 | 19 19 | 1 15 | 15 48 | 1 40 | 24 2 | 0 25 | 23 12 | 0 26 | 18 19 | 3 49 | 1 14 | 0 46 | 13 0 | | | n.a. |
| T 4 | 15 5 | 19 26 | 3 44 | 9 50 | 1 7 | 26 53 | 3 18 | 6 45 | 1 30 | 19 17 | 1 15 | 15 50 | 1 40 | 24 2 | 0 25 | 23 12 | 0 26 | 18 19 | 3 49 | 1 14 | 0 45 | 12 57 | | | n.a. |
| F 5 | 15 23 | 13 40 | 2 44 | 10 42 | 0 57 | 26 53 | 3 16 | 6 28 | 1 30 | 19 16 | 1 15 | 15 53 | 1 40 | 24 1 | 0 25 | 23 11 | 0 26 | 18 19 | 3 49 | 1 14 | 0 44 | 12 54 | | | n.a. |
| S 6 | 15 41 | 7 9 | 1 33 | 11 35 | 0 46 | 26 53 | 3 15 | 6 10 | 1 30 | 19 14 | 1 15 | 15 55 | 1 40 | 24 1 | 0 25 | 23 11 | 0 26 | 18 19 | 3 49 | 1 15 | 0 43 | 12 51 | | | n.a. |
| S 7 | 15 58 | 0 14 | 0 17 | 12 28 | 0 36 | 26 52 | 3 12 | 5 53 | 1 30 | 19 13 | 1 15 | 15 57 | 1 40 | 24 1 | 0 25 | 23 11 | 0 26 | 18 20 | 3 49 | 1 15 | 0 41 | 12 48 | | | n.a. |
| M 8 | 16 16 | 6s41 | 1s 1 | 13 20 | 0 25 | 26 51 | 3 10 | 5 35 | 1 30 | 19 11 | 1 15 | 15 59 | 1 40 | 24 1 | 0 25 | 23 11 | 0 26 | 18 20 | 3 49 | 1 15 | 0 40 | 12 44 | | | n.a. |
| T 9 | 16 33 | 13 14 | 2 14 | 14 13 | 0 14 | 26 49 | 3 8 | 5 18 | 1 30 | 19 10 | 1 15 | 16 2 | 1 40 | 24 1 | 0 25 | 23 11 | 0 26 | 18 20 | 3 49 | 1 14 | 0 39 | 12 41 | | | n.a. |
| W10 | 16 50 | 19 1 | 3 18 | 15 4 | 0 4 | 26 47 | 3 5 | 5 0 | 1 30 | 19 8 | 1 14 | 16 4 | 1 40 | 24 1 | 0 25 | 23 11 | 0 26 | 18 21 | 3 49 | 1 12 | 0 38 | 12 38 | | | n.a. |
| T 11 | 17 6 | 23 41 | 4 10 | 15 55 | 0n 7 | 26 44 | 3 2 | 4 43 | 1 31 | 19 6 | 1 14 | 16 6 | 1 40 | 24 1 | 0 25 | 23 11 | 0 26 | 18 21 | 3 49 | 1 10 | 0 36 | 12 35 | | | n.a. |
| F 12 | 17 22 | 26 57 | 4 45 | 16 44 | 0 18 | 26 41 | 2 59 | 4 25 | 1 31 | 19 5 | 1 14 | 16 8 | 1 40 | 24 1 | 0 25 | 23 11 | 0 26 | 18 21 | 3 49 | 1 7 | 0 35 | 12 32 | | | n.a. |
| S 13 | 17 38 | 28 37 | 5 4 | 17 33 | 0 28 | 26 37 | 2 55 | 4 8 | 1 31 | 19 3 | 1 14 | 16 10 | 1 40 | 24 0 | 0 25 | 23 11 | 0 26 | 18 21 | 3 48 | 1 4 | 0 34 | 12 29 | | | n.a. |
| S 14 | 17 54 | 28 39 | 5 7 | 18 19 | 0 38 | 26 33 | 2 51 | 3 50 | 1 31 | 19 1 | 1 14 | 16 13 | 1 39 | 24 0 | 0 25 | 23 11 | 0 26 | 18 22 | 3 48 | 1 1 | 0 32 | 12 25 | | | n.a. |
| M15 | 18 10 | 27 12 | 4 55 | 19 4 | 0 48 | 26 28 | 2 47 | 3 33 | 1 31 | 18 59 | 1 14 | 16 15 | 1 39 | 24 0 | 0 25 | 23 11 | 0 26 | 18 22 | 3 48 | 0 59 | 0 31 | 12 22 | | | n.a. |
| T 16 | 18 25 | 24 27 | 4 30 | 19 47 | 0 57 | 26 23 | 2 43 | 3 15 | 1 31 | 18 57 | 1 13 | 16 17 | 1 39 | 24 0 | 0 25 | 23 11 | 0 26 | 18 22 | 3 48 | 0 57 | 0 30 | 12 19 | | | n.a. |
| W17 | 18 40 | 20 41 | 3 53 | 20 28 | 1 6 | 26 18 | 2 38 | 2 57 | 1 31 | 18 55 | 1 13 | 16 19 | 1 39 | 24 0 | 0 25 | 23 11 | 0 26 | 18 23 | 3 48 | 0 56 | 0 29 | 12 16 | | | n.a. |
| T 18 | 18 54 | 16 8 | 3 6 | 21 7 | 1 14 | 26 12 | 2 33 | 2 40 | 1 31 | 18 53 | 1 13 | 16 21 | 1 39 | 24 0 | 0 25 | 23 11 | 0 26 | 18 23 | 3 48 | 0 56 | 0 27 | 12 13 | | | n.a. |
| F 19 | 19 8 | 11 0 | 2 11 | 21 43 | 1 21 | 26 5 | 2 28 | 2 22 | 1 31 | 18 51 | 1 13 | 16 24 | 1 39 | 24 0 | 0 25 | 23 11 | 0 26 | 18 23 | 3 48 | 0 56 | 0 26 | 12 9 | | | n.a. |
| S 20 | 19 22 | 5 29 | 1 11 | 22 17 | 1 28 | 25 59 | 2 23 | 2 5 | 1 31 | 18 49 | 1 13 | 16 26 | 1 39 | 24 0 | 0 25 | 23 11 | 0 25 | 18 24 | 3 48 | 0 57 | 0 25 | 12 6 | | | n.a. |
| S 21 | 19 36 | 0n16 | 0 8 | 22 48 | 1 35 | 25 52 | 2 17 | 1 47 | 1 31 | 18 47 | 1 13 | 16 28 | 1 39 | 23 59 | 0 25 | 23 11 | 0 25 | 18 24 | 3 48 | 0 57 | 0 24 | 12 3 | | | n.a. |
| M22 | 19 49 | 6 6 | 0n57 | 23 16 | 1 40 | 25 44 | 2 11 | 1 30 | 1 31 | 18 45 | 1 13 | 16 30 | 1 39 | 23 59 | 0 25 | 23 11 | 0 25 | 18 24 | 3 48 | 0 57 | 0 22 | 12 0 | | | n.a. |
| T 23 | 20 2 | 11 49 | 2 1 | 23 42 | 1 45 | 25 36 | 2 4 | 1 12 | 1 31 | 18 43 | 1 12 | 16 32 | 1 39 | 23 59 | 0 25 | 23 11 | 0 25 | 18 24 | 3 48 | 0 56 | 0 21 | 11 57 | | | n.a. |
| W24 | 20 15 | 17 11 | 2 59 | 24 5 | 1 50 | 25 28 | 1 58 | 0 55 | 1 31 | 18 41 | 1 12 | 16 34 | 1 39 | 23 59 | 0 25 | 23 11 | 0 25 | 18 25 | 3 48 | 0 54 | 0 20 | 11 53 | | | n.a. |
| T 25 | 20 27 | 21 55 | 3 50 | 24 25 | 1 53 | 25 20 | 1 51 | 0 37 | 1 31 | 18 38 | 1 12 | 16 36 | 1 39 | 23 59 | 0 25 | 23 11 | 0 25 | 18 25 | 3 48 | 0 51 | 0 18 | 11 50 | | | n.a. |
| F 26 | 20 39 | 25 40 | 4 30 | 24 43 | 1 56 | 25 11 | 1 43 | 0 20 | 1 30 | 18 36 | 1 12 | 16 38 | 1 39 | 23 59 | 0 25 | 23 11 | 0 25 | 18 25 | 3 47 | 0 47 | 0 17 | 11 47 | | | n.a. |
| S 27 | 20 51 | 28 3 | 4 55 | 24 58 | 1 58 | 25 2 | 1 35 | 0 3 | 1 30 | 18 34 | 1 12 | 16 40 | 1 39 | 23 59 | 0 25 | 23 10 | 0 25 | 18 26 | 3 47 | 0 44 | 0 16 | 11 44 | | | n.a. |
| S 28 | 21 2 | 28 45 | 5 4 | 25 10 | 2 0 | 24 53 | 1 27 | 0n15 | 1 30 | 18 31 | 1 12 | 16 43 | 1 39 | 23 58 | 0 25 | 23 10 | 0 25 | 18 26 | 3 47 | 0 40 | 0 15 | 11 40 | | | n.a. |
| M29 | 21 13 | 27 39 | 4 55 | 25 20 | 2 0 | 24 43 | 1 19 | 0 32 | 1 30 | 18 29 | 1 12 | 16 45 | 1 39 | 23 58 | 0 25 | 23 10 | 0 25 | 18 26 | 3 47 | 0 36 | 0 13 | 11 37 | | | n.a. |
| T 30 | 21 23 | 24 47 | 4 28 | 25 28 | 2 0 | 24 33 | 1 10 | 0 49 | 1 30 | 18 27 | 1 11 | 16 47 | 1 39 | 23 58 | 0 25 | 23 10 | 0 25 | 18 26 | 3 47 | 0 34 | 0 12 | 11 34 | | | n.a. |
| W31 | 21n34 | 20n24 | 3n44 | 25n33 | 2n 0 | 24n23 | 1n 0 | 1n 6 | 1s30 | 18n24 | 1n11 | 16n49 | 1s39 | 23n58 | 0n25 | 23n10 | 0s25 | 18n27 | 3s47 | 0n32 | 0n11 | 11s31 | | | n.a. |

Julian Day Number = 1699263.5, Delta T = 03h06m25s
Ecliptic obliquity = 23°42'18, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°54'05, Lahiri = - 4°47'05 Julian Calendar 1 May 61 BCE == Greg. Calendar 29 Apr. 061 BCE

The year -60 astronomical counting style corresponds to year 061 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 61 BCE
# geocentric

## JUNE 61 BCE (-60) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 27 59 | 7♊ 1'18 | 28♌ 6 | 25♊34 | 9♋27 | 6♈53 | 12♌34 | 21♉52 | 6♋26 | 5♋28 | 9♊58 | 1°R18 | 0♈24 | 5♓50 | n.a. | T 1 |
| F 2 | 16 31 56 | 7°58'25 | 12♍15 | 27°18 | 9°36 | 7°36 | 12°43 | 21°59 | 6°29 | 5°30 | 10° 0 | 1°D17 | 0°20 | 5°57 | n.a. | F 2 |
| S 3 | 16 35 52 | 8°55'31 | 26°22 | 28°59 | 9°43 | 8°18 | 12°51 | 22° 7 | 6°32 | 5°32 | 10° 1 | 1°R18 | 0°17 | 6° 4 | n.a. | S 3 |
| S 4 | 16 39 49 | 9°52'37 | 10♎25 | 0♋38 | 9°47 | 9° 1 | 13° 0 | 22°15 | 6°36 | 5°34 | 10° 3 | 1♈18 | 0°14 | 6°10 | n.a. | S 4 |
| M 5 | 16 43 45 | 10°49'43 | 24°24 | 2°15 | 9°R50 | 9°43 | 13° 9 | 22°22 | 6°39 | 5°36 | 10° 4 | 1°16 | 0°11 | 6°17 | n.a. | M 5 |
| T 6 | 16 47 42 | 11°46'49 | 8♏16 | 3°50 | 9°50 | 10°25 | 13°18 | 22°30 | 6°42 | 5°38 | 10° 6 | 1°11 | 0° 8 | 6°24 | n.a. | T 6 |
| W 7 | 16 51 38 | 12°43'55 | 22° 0 | 5°23 | 9°47 | 11° 8 | 13°27 | 22°38 | 6°46 | 5°41 | 10° 7 | 1° 4 | 0° 4 | 6°30 | n.a. | W 7 |
| T 8 | 16 55 35 | 13°41'01 | 5♐33 | 6°53 | 9°42 | 11°50 | 13°36 | 22°45 | 6°49 | 5°43 | 10° 9 | 0°55 | 0° 1 | 6°37 | n.a. | T 8 |
| F 9 | 16 59 32 | 14°38'07 | 18°51 | 8°21 | 9°35 | 12°32 | 13°45 | 22°53 | 6°53 | 5°45 | 10°10 | 0°44 | 29♓58 | 6°44 | n.a. | F 9 |
| S 10 | 17 3 28 | 15°35'14 | 1♑54 | 9°47 | 9°26 | 13°14 | 13°54 | 23° 0 | 6°56 | 5°47 | 10°12 | 0°32 | 29°55 | 6°50 | n.a. | S 10 |
| S 11 | 17 7 25 | 16°32'20 | 14°39 | 11°11 | 9°14 | 13°55 | 14° 4 | 23° 8 | 7° 0 | 5°49 | 10°13 | 0°20 | 29°52 | 6°57 | n.a. | S 11 |
| M12 | 17 11 21 | 17°29'28 | 27° 8 | 12°32 | 8°59 | 14°37 | 14°13 | 23°15 | 7° 3 | 5°51 | 10°15 | 0°10 | 29°49 | 7° 4 | n.a. | M12 |
| T 13 | 17 15 18 | 18°26'35 | 9♒22 | 13°52 | 8°43 | 15°19 | 14°23 | 23°22 | 7° 7 | 5°53 | 10°16 | 0° 2 | 29°45 | 7°10 | n.a. | T 13 |
| W14 | 17 19 14 | 19°23'44 | 21°23 | 15° 8 | 8°24 | 16° 0 | 14°33 | 23°30 | 7°10 | 5°55 | 10°18 | 29♓57 | 29°42 | 7°17 | n.a. | W14 |
| T 15 | 17 23 11 | 20°20'52 | 3♓15 | 16°23 | 8° 2 | 16°42 | 14°42 | 23°37 | 7°14 | 5°58 | 10°19 | 29°54 | 29°39 | 7°24 | n.a. | T 15 |
| F 16 | 17 27 8 | 21°18'02 | 15° 4 | 17°34 | 7°39 | 17°23 | 14°52 | 23°45 | 7°17 | 6° 0 | 10°21 | 29°53 | 29°36 | 7°30 | n.a. | F 16 |
| S 17 | 17 31 4 | 22°15'12 | 26°55 | 18°44 | 7°14 | 18° 4 | 15° 2 | 23°52 | 7°21 | 6° 2 | 10°22 | 29°53 | 29°33 | 7°37 | n.a. | S 17 |
| S 18 | 17 35 1 | 23°12'23 | 8♈52 | 19°50 | 6°46 | 18°45 | 15°12 | 23°59 | 7°25 | 6° 4 | 10°24 | 29°53 | 29°30 | 7°44 | n.a. | S 18 |
| M19 | 17 38 57 | 24° 9'35 | 21° 2 | 20°54 | 6°17 | 19°27 | 15°22 | 24° 6 | 7°28 | 6° 6 | 10°25 | 29°52 | 29°26 | 7°50 | n.a. | M19 |
| T 20 | 17 42 54 | 25° 6'48 | 3♉28 | 21°55 | 5°46 | 20° 7 | 15°33 | 24°13 | 7°32 | 6° 8 | 10°27 | 29°48 | 29°23 | 7°57 | n.a. | T 20 |
| W21 | 17 46 50 | 26° 4'01 | 16°16 | 22°54 | 5°14 | 20°48 | 15°43 | 24°21 | 7°35 | 6°11 | 10°28 | 29°43 | 29°20 | 8° 4 | n.a. | W21 |
| T 22 | 17 50 47 | 27° 1'16 | 29°26 | 23°49 | 4°40 | 21°29 | 15°53 | 24°28 | 7°39 | 6°13 | 10°29 | 29°34 | 29°17 | 8°10 | n.a. | T 22 |
| F 23 | 17 54 43 | 27°58'31 | 13♊ 0 | 24°41 | 4° 5 | 22°10 | 16° 4 | 24°35 | 7°43 | 6°15 | 10°31 | 29°24 | 29°14 | 8°17 | n.a. | F 23 |
| S 24 | 17 58 40 | 28°55'47 | 26°56 | 25°30 | 3°30 | 22°50 | 16°15 | 24°42 | 7°46 | 6°17 | 10°32 | 29°12 | 29°10 | 8°24 | n.a. | S 24 |
| S 25 | 18 2 37 | 29°53'04 | 11♋ 9 | 26°15 | 2°53 | 23°31 | 16°25 | 24°49 | 7°50 | 6°19 | 10°34 | 29° 0 | 29° 7 | 8°30 | n.a. | S 25 |
| M26 | 18 6 33 | 0♋50'22 | 25°34 | 26°57 | 2°16 | 24°11 | 16°36 | 24°56 | 7°54 | 6°22 | 10°35 | 28°50 | 29° 4 | 8°37 | n.a. | M26 |
| T 27 | 18 10 30 | 1°47'40 | 10♌ 4 | 27°35 | 1°39 | 24°51 | 16°47 | 25° 2 | 7°57 | 6°24 | 10°37 | 28°42 | 29° 1 | 8°44 | n.a. | T 27 |
| W28 | 18 14 26 | 2°44'59 | 24°33 | 28° 9 | 1° 2 | 25°31 | 16°58 | 25° 9 | 8° 1 | 6°26 | 10°38 | 28°36 | 28°58 | 8°50 | n.a. | W28 |
| T 29 | 18 18 23 | 3°42'18 | 8♍57 | 28°39 | 0°25 | 26°11 | 17° 9 | 25°16 | 8° 5 | 6°28 | 10°39 | 28°34 | 28°55 | 8°57 | n.a. | T 29 |
| F 30 | 18 22 19 | 4♋39'38 | 23♍12 | 29♋ 4 | 29♊49 | 26♈51 | 17♌20 | 25♉23 | 8♋ 8 | 6♋31 | 10♊41 | 28♓33 | 28♓51 | 9♓ 3 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21n43 | 14n52 | 2n47 | 25n36 | 1n59 | 24n12 | 0n51 | 1n23 | 1s30 | 18n22 | 1n11 | 16n51 | 1s39 | 23n58 | 0n25 | 23n10 | 0s25 | 18n27 | 3s47 | 0n31 | 0n 9 | 11s28 | | n.a. |
| F 2 | 21 53 | 8 34 | 1 40 | 25 37 | 1 57 | 24 2 | 0 41 | 1 41 | 1 30 | 18 19 | 1 11 | 16 53 | 1 39 | 23 58 | 0 25 | 23 10 | 0 25 | 18 27 | 3 47 | 0 31 | 0 8 | 11 24 | | n.a. |
| S 3 | 22 2 | 1 52 | 0 26 | 25 36 | 1 54 | 23 51 | 0 30 | 1 58 | 1 30 | 18 16 | 1 11 | 16 55 | 1 39 | 23 57 | 0 25 | 23 10 | 0 25 | 18 27 | 3 47 | 0 31 | 0 7 | 11 21 | | n.a. |
| S 4 | 22 11 | 4s55 | 0s48 | 25 33 | 1 51 | 23 40 | 0 20 | 2 15 | 1 29 | 18 14 | 1 11 | 16 57 | 1 39 | 23 57 | 0 25 | 23 10 | 0 25 | 18 28 | 3 47 | 0 31 | 0 6 | 11 18 | | n.a. |
| M 5 | 22 19 | 11 25 | 2 0 | 25 28 | 1 47 | 23 29 | 0 8 | 2 32 | 1 29 | 18 11 | 1 11 | 16 59 | 1 39 | 23 57 | 0 25 | 23 10 | 0 25 | 18 28 | 3 47 | 0 30 | 0 4 | 11 15 | | n.a. |
| T 6 | 22 27 | 17 18 | 3 3 | 25 22 | 1 43 | 23 17 | 0s 3 | 2 48 | 1 29 | 18 8 | 1 11 | 17 1 | 1 39 | 23 57 | 0 25 | 23 10 | 0 25 | 18 28 | 3 47 | 0 29 | 0 3 | 11 11 | | n.a. |
| W 7 | 22 35 | 22 15 | 3 55 | 25 14 | 1 38 | 23 5 | 0 15 | 3 5 | 1 29 | 18 6 | 1 10 | 17 3 | 1 39 | 23 57 | 0 25 | 23 10 | 0 25 | 18 29 | 3 47 | 0 26 | 0 2 | 11 8 | | n.a. |
| T 8 | 22 42 | 25 56 | 4 33 | 25 4 | 1 33 | 22 54 | 0 27 | 3 22 | 1 29 | 18 3 | 1 10 | 17 5 | 1 39 | 23 57 | 0 25 | 23 10 | 0 25 | 18 29 | 3 47 | 0 22 | 0 1 | 11 5 | | n.a. |
| F 9 | 22 49 | 28 8 | 4 55 | 24 53 | 1 27 | 22 42 | 0 40 | 3 39 | 1 28 | 18 0 | 1 10 | 17 6 | 1 39 | 23 56 | 0 25 | 23 10 | 0 25 | 18 29 | 3 47 | 0 18 | 0s 1 | 11 2 | | n.a. |
| S 10 | 22 55 | 28 43 | 5 1 | 24 40 | 1 20 | 22 30 | 0 52 | 3 55 | 1 28 | 17 57 | 1 10 | 17 8 | 1 39 | 23 56 | 0 25 | 23 10 | 0 25 | 18 29 | 3 47 | 0 13 | 0 2 | 10 58 | | n.a. |
| S 11 | 23 1 | 27 44 | 4 52 | 24 26 | 1 13 | 22 17 | 1 6 | 4 12 | 1 28 | 17 54 | 1 10 | 17 10 | 1 39 | 23 56 | 0 25 | 23 9 | 0 25 | 18 30 | 3 47 | 0 8 | 0 3 | 10 55 | | n.a. |
| M12 | 23 7 | 25 21 | 4 29 | 24 12 | 1 5 | 22 5 | 1 19 | 4 29 | 1 28 | 17 52 | 1 10 | 17 12 | 1 39 | 23 56 | 0 25 | 23 9 | 0 25 | 18 30 | 3 47 | 0 4 | 0 5 | 10 52 | | n.a. |
| T 13 | 23 12 | 21 52 | 3 54 | 23 56 | 0 57 | 21 53 | 1 33 | 4 45 | 1 28 | 17 49 | 1 10 | 17 14 | 1 39 | 23 56 | 0 25 | 23 9 | 0 25 | 18 30 | 3 46 | 0 1 | 0 6 | 10 48 | | n.a. |
| W14 | 23 17 | 17 31 | 3 9 | 23 39 | 0 49 | 21 40 | 1 46 | 5 1 | 1 27 | 17 46 | 1 10 | 17 16 | 1 39 | 23 55 | 0 25 | 23 9 | 0 25 | 18 30 | 3 46 | 0s 1 | 0 7 | 10 45 | | n.a. |
| T 15 | 23 21 | 12 32 | 2 16 | 23 21 | 0 40 | 21 27 | 2 0 | 5 18 | 1 27 | 17 43 | 1 10 | 17 18 | 1 39 | 23 55 | 0 25 | 23 9 | 0 25 | 18 31 | 3 46 | 0 2 | 0 8 | 10 42 | | n.a. |
| F 16 | 23 25 | 7 8 | 1 18 | 23 3 | 0 31 | 21 15 | 2 14 | 5 34 | 1 27 | 17 40 | 1 10 | 17 19 | 1 39 | 23 55 | 0 25 | 23 9 | 0 25 | 18 31 | 3 46 | 0 3 | 0 10 | 10 39 | | n.a. |
| S 17 | 23 29 | 1 29 | 0 16 | 22 43 | 0 21 | 21 2 | 2 29 | 5 50 | 1 26 | 17 37 | 1 9 | 17 21 | 1 39 | 23 55 | 0 25 | 23 9 | 0 25 | 18 31 | 3 46 | 0 3 | 0 11 | 10 35 | | n.a. |
| S 18 | 23 32 | 4n17 | 0n47 | 22 24 | 0 11 | 20 49 | 2 43 | 6 6 | 1 26 | 17 33 | 1 9 | 17 23 | 1 39 | 23 55 | 0 25 | 23 9 | 0 25 | 18 31 | 3 46 | 0 3 | 0 12 | 10 32 | | n.a. |
| M19 | 23 34 | 9 59 | 1 50 | 22 4 | 0 0 | 20 36 | 2 57 | 6 22 | 1 26 | 17 30 | 1 9 | 17 25 | 1 39 | 23 54 | 0 25 | 23 9 | 0 25 | 18 32 | 3 46 | 0 3 | 0 14 | 10 29 | | n.a. |
| T 20 | 23 37 | 15 26 | 2 48 | 21 43 | 0s11 | 20 24 | 3 11 | 6 38 | 1 26 | 17 27 | 1 9 | 17 27 | 1 39 | 23 54 | 0 25 | 23 9 | 0 25 | 18 32 | 3 46 | 0 5 | 0 15 | 10 26 | | n.a. |
| W21 | 23 39 | 20 23 | 3 39 | 21 22 | 0 22 | 20 11 | 3 25 | 6 54 | 1 25 | 17 24 | 1 9 | 17 28 | 1 39 | 23 54 | 0 25 | 23 9 | 0 25 | 18 32 | 3 46 | 0 7 | 0 16 | 10 22 | | n.a. |
| T 22 | 23 40 | 24 29 | 4 20 | 21 2 | 0 34 | 19 58 | 3 39 | 7 9 | 1 25 | 17 21 | 1 9 | 17 30 | 1 39 | 23 54 | 0 25 | 23 9 | 0 25 | 18 32 | 3 46 | 0 10 | 0 17 | 10 19 | | n.a. |
| F 23 | 23 41 | 27 23 | 4 48 | 20 41 | 0 46 | 19 46 | 3 52 | 7 25 | 1 25 | 17 17 | 1 9 | 17 32 | 1 39 | 23 54 | 0 25 | 23 8 | 0 25 | 18 33 | 3 46 | 0 15 | 0 19 | 10 16 | | n.a. |
| S 24 | 23 42 | 28 40 | 5 0 | 20 20 | 0 58 | 19 34 | 4 6 | 7 41 | 1 24 | 17 14 | 1 9 | 17 33 | 1 39 | 23 53 | 0 25 | 23 8 | 0 25 | 18 33 | 3 46 | 0 19 | 0 20 | 10 12 | | n.a. |
| S 25 | 23 42 | 28 7 | 4 54 | 19 59 | 1 10 | 19 22 | 4 19 | 7 56 | 1 24 | 17 11 | 1 9 | 17 35 | 1 39 | 23 53 | 0 25 | 23 8 | 0 25 | 18 33 | 3 46 | 0 24 | 0 21 | 10 9 | | n.a. |
| M26 | 23 42 | 25 40 | 4 29 | 19 39 | 1 23 | 19 10 | 4 31 | 8 11 | 1 23 | 17 7 | 1 9 | 17 37 | 1 39 | 23 53 | 0 25 | 23 8 | 0 25 | 18 33 | 3 46 | 0 28 | 0 22 | 10 6 | | n.a. |
| T 27 | 23 42 | 21 33 | 3 46 | 19 18 | 1 36 | 18 58 | 4 43 | 8 26 | 1 23 | 17 4 | 1 9 | 17 38 | 1 39 | 23 53 | 0 25 | 23 8 | 0 25 | 18 33 | 3 46 | 0 31 | 0 24 | 10 3 | | n.a. |
| W28 | 23 41 | 16 8 | 2 49 | 18 59 | 1 49 | 18 47 | 4 55 | 8 42 | 1 23 | 17 1 | 1 8 | 17 40 | 1 39 | 23 52 | 0 25 | 23 8 | 0 25 | 18 34 | 3 46 | 0 34 | 0 25 | 9 59 | | n.a. |
| T 29 | 23 39 | 9 52 | 1 42 | 18 40 | 2 2 | 18 37 | 5 6 | 8 57 | 1 22 | 16 57 | 1 8 | 17 42 | 1 39 | 23 52 | 0 25 | 23 8 | 0 25 | 18 34 | 3 46 | 0 35 | 0 26 | 9 56 | | n.a. |
| F 30 | 23n37 | 3n10 | 0n28 | 18n22 | 2s16 | 18n26 | 5s16 | 9n11 | 1s22 | 16n54 | 1n 8 | 17n43 | 1s39 | 23n52 | 0n25 | 23n 8 | 0s25 | 18n34 | 3s46 | 0s35 | 0s28 | 9s53 | | n.a. |

Julian Day Number = 1699294.5, Delta T = 03h06m24s
Ecliptic obliquity = 23°42'17, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°54'01, Lahiri = - 4°47'00 Julian Calendar 1 June 61 BCE == Greg. Calendar 30 May 061 BCE

The year -60 astronomical counting style corresponds to year 061 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 61 BCE
# geocentric

## JULY 61 BCE (-60) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 26 16 | 5♋36'58 | 7♎17 | 29♋26 | 29°R13 | 27♈31 | 17♌31 | 25♉29 | 8♋12 | 6♋33 | 10♊42 | 28°R33 | 28♓48 | 9♓10 | n.a. | S 1 |
| S 2 | 18 30 13 | 6°34'19 | 21°10 | 29°42 | 28♊38 | 28°11 | 17°42 | 25°36 | 8°16 | 6°35 | 10°44 | 28♓32 | 28°45 | 9°17 | n.a. | S 2 |
| M 3 | 18 34 9 | 7°31'41 | 4♏53 | 29°54 | 28° 4 | 28°50 | 17°53 | 25°43 | 8°19 | 6°37 | 10°45 | 28°30 | 28°42 | 9°23 | n.a. | M 3 |
| T 4 | 18 38 6 | 8°29'04 | 18°25 | 0♌ 1 | 27°31 | 29°29 | 18° 4 | 25°49 | 8°23 | 6°40 | 10°46 | 28°26 | 28°39 | 9°30 | n.a. | T 4 |
| W 5 | 18 42 2 | 9°26'27 | 1♐45 | 0°R 3 | 27° 0 | 0♉ 9 | 18°16 | 25°56 | 8°27 | 6°42 | 10°48 | 28°18 | 28°36 | 9°37 | n.a. | W 5 |
| T 6 | 18 45 59 | 10°23'52 | 14°55 | 29♋59 | 26°31 | 0°48 | 18°27 | 26° 2 | 8°31 | 6°44 | 10°49 | 28° 8 | 28°32 | 9°43 | n.a. | T 6 |
| F 7 | 18 49 55 | 11°21'17 | 27°52 | 29°50 | 26° 3 | 1°27 | 18°39 | 26° 8 | 8°34 | 6°46 | 10°50 | 27°57 | 28°29 | 9°50 | n.a. | F 7 |
| S 8 | 18 53 52 | 12°18'44 | 10♑37 | 29°36 | 25°38 | 2° 6 | 18°50 | 26°15 | 8°38 | 6°48 | 10°52 | 27°44 | 28°26 | 9°57 | n.a. | S 8 |
| S 9 | 18 57 48 | 13°16'12 | 23° 8 | 29°17 | 25°14 | 2°44 | 19° 2 | 26°21 | 8°42 | 6°51 | 10°53 | 27°32 | 28°23 | 10° 3 | n.a. | S 9 |
| M10 | 19 1 45 | 14°13'41 | 5♒27 | 28°52 | 24°53 | 3°23 | 19°13 | 26°27 | 8°45 | 6°53 | 10°54 | 27°21 | 28°20 | 10°10 | n.a. | M10 |
| T 11 | 19 5 42 | 15°11'11 | 17°33 | 28°23 | 24°34 | 4° 2 | 19°25 | 26°33 | 8°49 | 6°55 | 10°56 | 27°13 | 28°16 | 10°17 | n.a. | T 11 |
| W12 | 19 9 38 | 16° 8'42 | 29°30 | 27°49 | 24°17 | 4°40 | 19°37 | 26°39 | 8°53 | 6°57 | 10°57 | 27° 7 | 28°13 | 10°23 | n.a. | W12 |
| T 13 | 19 13 35 | 17° 6'15 | 11♓20 | 27°10 | 24° 3 | 5°18 | 19°49 | 26°45 | 8°56 | 7° 0 | 10°58 | 27° 4 | 28°10 | 10°30 | n.a. | T 13 |
| F 14 | 19 17 31 | 18° 3'50 | 23° 7 | 26°28 | 23°51 | 5°56 | 20° 1 | 26°51 | 9° 0 | 7° 2 | 10°59 | 27°D 3 | 28° 7 | 10°37 | n.a. | F 14 |
| S 15 | 19 21 28 | 19° 1'26 | 4♈56 | 25°42 | 23°41 | 6°34 | 20°13 | 26°57 | 9° 4 | 7° 4 | 11° 1 | 27° 3 | 28° 4 | 10°43 | n.a. | S 15 |
| S 16 | 19 25 24 | 19°59'04 | 16°53 | 24°54 | 23°34 | 7°12 | 20°25 | 27° 3 | 9° 7 | 7° 6 | 11° 2 | 27°R 3 | 28° 1 | 10°50 | n.a. | S 16 |
| M17 | 19 29 21 | 20°56'43 | 29° 2 | 24° 4 | 23°29 | 7°50 | 20°37 | 27° 9 | 9°11 | 7° 8 | 11° 3 | 27° 3 | 27°57 | 10°57 | n.a. | M17 |
| T 18 | 19 33 17 | 21°54'24 | 11♉28 | 23°13 | 23°27 | 8°27 | 20°49 | 27°14 | 9°15 | 7°10 | 11° 4 | 27° 1 | 27°54 | 11° 3 | n.a. | T 18 |
| W19 | 19 37 14 | 22°52'07 | 24°17 | 22°22 | 23°D26 | 9° 5 | 21° 1 | 27°20 | 9°18 | 7°13 | 11° 5 | 26°57 | 27°51 | 11°10 | n.a. | W19 |
| T 20 | 19 41 11 | 23°49'51 | 7♊32 | 21°33 | 23°29 | 9°42 | 21°13 | 27°25 | 9°22 | 7°15 | 11° 6 | 26°51 | 27°48 | 11°17 | n.a. | T 20 |
| F 21 | 19 45 7 | 24°47'38 | 21°14 | 20°45 | 23°33 | 10°19 | 21°25 | 27°31 | 9°25 | 7°17 | 11° 8 | 26°43 | 27°45 | 11°23 | n.a. | F 21 |
| S 22 | 19 49 4 | 25°45'26 | 5♋22 | 20° 1 | 23°40 | 10°56 | 21°38 | 27°36 | 9°29 | 7°19 | 11° 9 | 26°34 | 27°42 | 11°30 | n.a. | S 22 |
| S 23 | 19 53 0 | 26°43'15 | 19°52 | 19°21 | 23°49 | 11°33 | 21°50 | 27°42 | 9°33 | 7°21 | 11°10 | 26°24 | 27°38 | 11°37 | n.a. | S 23 |
| M24 | 19 56 57 | 27°41'07 | 4♌37 | 18°46 | 24° 0 | 12°10 | 22° 2 | 27°47 | 9°36 | 7°23 | 11°11 | 26°16 | 27°35 | 11°43 | n.a. | M24 |
| T 25 | 20 0 53 | 28°38'59 | 19°31 | 18°16 | 24°13 | 12°46 | 22°15 | 27°52 | 9°40 | 7°25 | 11°12 | 26° 9 | 27°32 | 11°50 | n.a. | T 25 |
| W26 | 20 4 50 | 29°36'54 | 4♍23 | 17°53 | 24°28 | 13°22 | 22°27 | 27°57 | 9°43 | 7°28 | 11°13 | 26° 5 | 27°29 | 11°56 | n.a. | W26 |
| T 27 | 20 8 46 | 0♌34'49 | 19° 7 | 17°38 | 24°45 | 13°59 | 22°40 | 28° 2 | 9°47 | 7°30 | 11°14 | 26° 3 | 27°26 | 12° 3 | n.a. | T 27 |
| F 28 | 20 12 43 | 1°32'46 | 3♎37 | 17°29 | 25° 4 | 14°35 | 22°52 | 28° 7 | 9°50 | 7°32 | 11°15 | 26°D 3 | 27°22 | 12°10 | n.a. | F 28 |
| S 29 | 20 16 40 | 2°30'44 | 17°50 | 17°D28 | 25°25 | 15°10 | 23° 5 | 28°12 | 9°54 | 7°34 | 11°16 | 26° 4 | 27°19 | 12°16 | n.a. | S 29 |
| S 30 | 20 20 36 | 3°28'44 | 1♏45 | 17°36 | 25°47 | 15°46 | 23°17 | 28°17 | 9°57 | 7°36 | 11°17 | 26°R 5 | 27°16 | 12°23 | n.a. | S 30 |
| M31 | 20 24 33 | 4♌26'45 | 15♏23 | 17♋52 | 26♊11 | 16♉21 | 23♌30 | 28♉21 | 10♋ 1 | 7♋38 | 11♊18 | 26♓ 4 | 27♓13 | 12♓30 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23n35 | 3s37 | 0s46 | 18n 4 | 2s29 | 18n16 | 5s26 | 9n26 | 1s21 | 16n50 | 1n 8 | 17n45 | 1s39 | 23n52 | 0n25 | 23n 8 | 0s25 | 18n34 | 3s46 | 0s35 | 0s29 | 9s49 | | n.a. |
| S 2 | 23 32 | 10 9 | 1 57 | 17 48 | 2 42 | 18 7 | 5 35 | 9 41 | 1 21 | 16 47 | 1 8 | 17 46 | 1 39 | 23 52 | 0 25 | 23 8 | 0 25 | 18 34 | 3 46 | 0 35 | 0 30 | 9 46 | | n.a. |
| M 3 | 23 29 | 16 6 | 3 0 | 17 33 | 2 55 | 17 58 | 5 43 | 9 56 | 1 21 | 16 43 | 1 8 | 17 48 | 1 39 | 23 51 | 0 25 | 23 7 | 0 25 | 18 35 | 3 46 | 0 36 | 0 31 | 9 43 | | n.a. |
| T 4 | 23 26 | 21 12 | 3 51 | 17 19 | 3 8 | 17 50 | 5 51 | 10 10 | 1 20 | 16 40 | 1 8 | 17 49 | 1 39 | 23 51 | 0 25 | 23 7 | 0 25 | 18 35 | 3 46 | 0 38 | 0 33 | 9 39 | | n.a. |
| W 5 | 23 22 | 25 8 | 4 30 | 17 6 | 3 20 | 17 42 | 5 58 | 10 24 | 1 20 | 16 36 | 1 8 | 17 51 | 1 39 | 23 51 | 0 25 | 23 7 | 0 25 | 18 35 | 3 46 | 0 41 | 0 34 | 9 36 | | n.a. |
| T 6 | 23 18 | 27 42 | 4 53 | 16 55 | 3 32 | 17 35 | 6 4 | 10 39 | 1 19 | 16 32 | 1 8 | 17 52 | 1 39 | 23 51 | 0 25 | 23 7 | 0 25 | 18 35 | 3 46 | 0 45 | 0 35 | 9 33 | | n.a. |
| F 7 | 23 13 | 28 42 | 5 1 | 16 46 | 3 44 | 17 29 | 6 10 | 10 53 | 1 19 | 16 29 | 1 8 | 17 54 | 1 39 | 23 50 | 0 25 | 23 7 | 0 25 | 18 35 | 3 46 | 0 50 | 0 37 | 9 29 | | n.a. |
| S 8 | 23 8 | 28 9 | 4 53 | 16 38 | 3 55 | 17 23 | 6 15 | 11 7 | 1 18 | 16 25 | 1 8 | 17 55 | 1 39 | 23 50 | 0 25 | 23 7 | 0 25 | 18 36 | 3 46 | 0 55 | 0 38 | 9 26 | | n.a. |
| S 9 | 23 2 | 26 10 | 4 32 | 16 32 | 4 5 | 17 18 | 6 19 | 11 21 | 1 18 | 16 21 | 1 8 | 17 56 | 1 39 | 23 50 | 0 25 | 23 7 | 0 25 | 18 36 | 3 46 | 0 59 | 0 39 | 9 23 | | n.a. |
| M10 | 22 56 | 22 57 | 3 58 | 16 28 | 4 14 | 17 14 | 6 23 | 11 34 | 1 17 | 16 18 | 1 8 | 17 58 | 1 39 | 23 50 | 0 25 | 23 7 | 0 25 | 18 36 | 3 46 | 1 4 | 0 40 | 9 19 | | n.a. |
| T 11 | 22 50 | 18 49 | 3 14 | 16 26 | 4 22 | 17 10 | 6 26 | 11 48 | 1 17 | 16 14 | 1 8 | 17 59 | 1 40 | 23 50 | 0 25 | 23 7 | 0 25 | 18 36 | 3 46 | 1 7 | 0 42 | 9 16 | | n.a. |
| W12 | 22 43 | 13 58 | 2 21 | 16 26 | 4 29 | 17 7 | 6 28 | 12 1 | 1 16 | 16 10 | 1 8 | 18 1 | 1 40 | 23 49 | 0 25 | 23 7 | 0 25 | 18 36 | 3 46 | 1 9 | 0 43 | 9 13 | | n.a. |
| T 13 | 22 36 | 8 40 | 1 23 | 16 28 | 4 35 | 17 5 | 6 30 | 12 15 | 1 16 | 16 6 | 1 8 | 18 2 | 1 40 | 23 49 | 0 25 | 23 6 | 0 25 | 18 37 | 3 46 | 1 11 | 0 44 | 9 10 | | n.a. |
| F 14 | 22 28 | 3 5 | 0 21 | 16 32 | 4 39 | 17 3 | 6 31 | 12 28 | 1 15 | 16 2 | 1 7 | 18 3 | 1 40 | 23 49 | 0 25 | 23 6 | 0 25 | 18 37 | 3 46 | 1 11 | 0 45 | 9 6 | | n.a. |
| S 15 | 22 20 | 2n38 | 0n42 | 16 38 | 4 41 | 17 2 | 6 31 | 12 41 | 1 14 | 15 58 | 1 7 | 18 5 | 1 40 | 23 49 | 0 25 | 23 6 | 0 25 | 18 37 | 3 46 | 1 11 | 0 47 | 9 3 | | n.a. |
| S 16 | 22 12 | 8 18 | 1 44 | 16 46 | 4 41 | 17 2 | 6 31 | 12 54 | 1 14 | 15 54 | 1 7 | 18 6 | 1 40 | 23 48 | 0 25 | 23 6 | 0 25 | 18 37 | 3 46 | 1 11 | 0 48 | 9 0 | | n.a. |
| M17 | 22 3 | 13 46 | 2 42 | 16 56 | 4 40 | 17 2 | 6 31 | 13 7 | 1 13 | 15 51 | 1 7 | 18 7 | 1 40 | 23 48 | 0 25 | 23 6 | 0 25 | 18 37 | 3 46 | 1 11 | 0 49 | 8 56 | | n.a. |
| T 18 | 21 54 | 18 49 | 3 34 | 17 8 | 4 37 | 17 3 | 6 30 | 13 20 | 1 13 | 15 47 | 1 7 | 18 8 | 1 40 | 23 48 | 0 25 | 23 6 | 0 25 | 18 37 | 3 46 | 1 12 | 0 51 | 8 53 | | n.a. |
| W19 | 21 45 | 23 12 | 4 17 | 17 21 | 4 32 | 17 4 | 6 29 | 13 33 | 1 12 | 15 43 | 1 7 | 18 9 | 1 40 | 23 48 | 0 25 | 23 6 | 0 25 | 18 38 | 3 46 | 1 13 | 0 52 | 8 49 | | n.a. |
| T 20 | 21 35 | 26 32 | 4 47 | 17 36 | 4 25 | 17 6 | 6 27 | 13 45 | 1 11 | 15 39 | 1 7 | 18 11 | 1 40 | 23 47 | 0 25 | 23 6 | 0 25 | 18 38 | 3 46 | 1 16 | 0 53 | 8 46 | | n.a. |
| F 21 | 21 24 | 28 27 | 5 3 | 17 52 | 4 16 | 17 9 | 6 25 | 13 57 | 1 11 | 15 35 | 1 7 | 18 12 | 1 40 | 23 47 | 0 25 | 23 6 | 0 25 | 18 38 | 3 46 | 1 19 | 0 54 | 8 43 | | n.a. |
| S 22 | 21 14 | 28 36 | 5 1 | 18 8 | 4 6 | 17 11 | 6 22 | 14 10 | 1 10 | 15 31 | 1 7 | 18 13 | 1 40 | 23 47 | 0 25 | 23 5 | 0 25 | 18 38 | 3 46 | 1 23 | 0 56 | 8 39 | | n.a. |
| S 23 | 21 3 | 26 49 | 4 40 | 18 26 | 3 54 | 17 15 | 6 19 | 14 22 | 1 10 | 15 27 | 1 7 | 18 14 | 1 40 | 23 47 | 0 25 | 23 5 | 0 25 | 18 38 | 3 46 | 1 27 | 0 57 | 8 36 | | n.a. |
| M24 | 20 51 | 23 11 | 3 59 | 18 44 | 3 41 | 17 18 | 6 16 | 14 34 | 1 9 | 15 22 | 1 7 | 18 15 | 1 40 | 23 46 | 0 25 | 23 5 | 0 25 | 18 38 | 3 46 | 1 30 | 0 58 | 8 33 | | n.a. |
| T 25 | 20 40 | 18 1 | 3 3 | 19 2 | 3 26 | 17 22 | 6 13 | 14 46 | 1 8 | 15 18 | 1 7 | 18 16 | 1 41 | 23 46 | 0 25 | 23 5 | 0 25 | 18 38 | 3 46 | 1 33 | 0 59 | 8 29 | | n.a. |
| W26 | 20 27 | 11 46 | 1 54 | 19 21 | 3 10 | 17 27 | 6 9 | 14 57 | 1 8 | 15 14 | 1 7 | 18 17 | 1 41 | 23 46 | 0 25 | 23 5 | 0 25 | 18 39 | 3 46 | 1 34 | 1 1 | 8 26 | | n.a. |
| T 27 | 20 15 | 4 55 | 0 37 | 19 39 | 2 54 | 17 32 | 6 5 | 15 9 | 1 7 | 15 10 | 1 7 | 18 18 | 1 41 | 23 46 | 0 25 | 23 5 | 0 25 | 18 39 | 3 46 | 1 35 | 1 2 | 8 23 | | n.a. |
| F 28 | 20 2 | 2s 4 | 0s41 | 19 57 | 2 37 | 17 37 | 6 0 | 15 20 | 1 6 | 15 6 | 1 7 | 18 19 | 1 41 | 23 45 | 0 25 | 23 5 | 0 25 | 18 39 | 3 46 | 1 35 | 1 3 | 8 19 | | n.a. |
| S 29 | 19 49 | 8 50 | 1 54 | 20 15 | 2 19 | 17 42 | 5 56 | 15 32 | 1 5 | 15 2 | 1 7 | 18 20 | 1 41 | 23 45 | 0 25 | 23 5 | 0 25 | 18 39 | 3 46 | 1 35 | 1 5 | 8 16 | | n.a. |
| S 30 | 19 36 | 15 1 | 3 0 | 20 31 | 2 2 | 17 47 | 5 51 | 15 43 | 1 5 | 14 58 | 1 7 | 18 21 | 1 41 | 23 45 | 0 25 | 23 5 | 0 25 | 18 39 | 3 46 | 1 35 | 1 6 | 8 13 | | n.a. |
| M31 | 19n22 | 20s21 | 3s54 | 20n47 | 1s44 | 17n53 | 5s46 | 15n54 | 1s 4 | 14n53 | 1n 7 | 18n22 | 1s41 | 23n45 | 0n25 | 23n 4 | 0s25 | 18n39 | 3s46 | 1s35 | 1s 7 | 8s 9 | | n.a. |

Julian Day Number = 1699324.5, Delta T = 03h06m24s
Ecliptic obliquity = 23°42'17, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°53'57, Lahiri = - 4°46'56 Julian Calendar 1 July 61 BCE == Greg. Calendar 29 June 061 BCE

The year -60 astronomical counting style corresponds to year 061 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 61 BCE
# geocentric

## AUGUST 61 BCE (-60) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 28 29 | 5♌24'48 | 28♏43 | 18♋15 | 26♊37 | 16♉57 | 23♌42 | 28♉26 | 10♋ 4 | 7♋40 | 11♊19 | 26°R 2 | 27♓10 | 12♓36 | n.a. | T 1 |
| W 2 | 20 32 26 | 6°22'52 | 11♐48 | 18°47 | 27° 5 | 17°32 | 23°55 | 28°30 | 10° 7 | 7°42 | 11°20 | 25♓57 | 27° 7 | 12°43 | n.a. | W 2 |
| T 3 | 20 36 22 | 7°20'58 | 24°39 | 19°28 | 27°33 | 18° 7 | 24° 8 | 28°35 | 10°11 | 7°44 | 11°21 | 25°51 | 27° 3 | 12°50 | n.a. | T 3 |
| F 4 | 20 40 19 | 8°19'06 | 7♑17 | 20°15 | 28° 4 | 18°41 | 24°20 | 28°39 | 10°14 | 7°46 | 11°22 | 25°43 | 27° 0 | 12°56 | n.a. | F 4 |
| S 5 | 20 44 15 | 9°17'15 | 19°44 | 21°11 | 28°36 | 19°16 | 24°33 | 28°43 | 10°18 | 7°48 | 11°23 | 25°34 | 26°57 | 13° 3 | n.a. | S 5 |
| S 6 | 20 48 12 | 10°15'26 | 2♒ 0 | 22°13 | 29° 9 | 19°50 | 24°46 | 28°48 | 10°21 | 7°50 | 11°24 | 25°26 | 26°54 | 13°10 | n.a. | S 6 |
| M 7 | 20 52 9 | 11°13'38 | 14° 7 | 23°23 | 29°44 | 20°24 | 24°59 | 28°52 | 10°24 | 7°52 | 11°25 | 25°19 | 26°51 | 13°16 | n.a. | M 7 |
| T 8 | 20 56 5 | 12°11'53 | 26° 5 | 24°38 | 0♋20 | 20°58 | 25°12 | 28°56 | 10°27 | 7°54 | 11°25 | 25°13 | 26°48 | 13°23 | n.a. | T 8 |
| W 9 | 21 0 2 | 13°10'09 | 7♓57 | 25°59 | 0°57 | 21°32 | 25°24 | 29° 0 | 10°31 | 7°56 | 11°26 | 25° 9 | 26°44 | 13°30 | n.a. | W 9 |
| T 10 | 21 3 58 | 14° 8'27 | 19°44 | 27°26 | 1°35 | 22° 6 | 25°37 | 29° 3 | 10°34 | 7°57 | 11°27 | 25°D 8 | 26°41 | 13°36 | n.a. | T 10 |
| F 11 | 21 7 55 | 15° 6'48 | 1♈31 | 28°58 | 2°15 | 22°39 | 25°50 | 29° 7 | 10°37 | 7°59 | 11°28 | 25° 8 | 26°38 | 13°43 | n.a. | F 11 |
| S 12 | 21 11 51 | 16° 5'10 | 13°20 | 0♌33 | 2°56 | 23°12 | 26° 3 | 29°11 | 10°40 | 8° 1 | 11°29 | 25° 9 | 26°35 | 13°50 | n.a. | S 12 |
| S 13 | 21 15 48 | 17° 3'35 | 25°16 | 2°12 | 3°37 | 23°45 | 26°16 | 29°14 | 10°44 | 8° 3 | 11°29 | 25°11 | 26°32 | 13°56 | n.a. | S 13 |
| M14 | 21 19 44 | 18° 2'02 | 7♉24 | 3°55 | 4°20 | 24°18 | 26°29 | 29°18 | 10°47 | 8° 5 | 11°30 | 25°12 | 26°28 | 14° 3 | n.a. | M14 |
| T 15 | 21 23 41 | 19° 0'31 | 19°49 | 5°40 | 5° 4 | 24°50 | 26°42 | 29°21 | 10°50 | 8° 7 | 11°31 | 25°R13 | 26°25 | 14° 9 | n.a. | T 15 |
| W16 | 21 27 38 | 19°59'03 | 2♊34 | 7°27 | 5°49 | 25°23 | 26°55 | 29°24 | 10°53 | 8° 8 | 11°31 | 25°12 | 26°22 | 14°16 | n.a. | W16 |
| T 17 | 21 31 34 | 20°57'37 | 15°45 | 9°16 | 6°34 | 25°55 | 27° 8 | 29°27 | 10°56 | 8°10 | 11°32 | 25°10 | 26°19 | 14°23 | n.a. | T 17 |
| F 18 | 21 35 31 | 21°56'13 | 29°24 | 11° 6 | 7°21 | 26°27 | 27°21 | 29°31 | 10°59 | 8°12 | 11°33 | 25° 6 | 26°16 | 14°29 | n.a. | F 18 |
| S 19 | 21 39 27 | 22°54'52 | 13♋31 | 12°57 | 8° 9 | 26°58 | 27°34 | 29°33 | 11° 2 | 8°14 | 11°33 | 25° 2 | 26°13 | 14°36 | n.a. | S 19 |
| S 20 | 21 43 24 | 23°53'32 | 28° 4 | 14°49 | 8°57 | 27°30 | 27°47 | 29°36 | 11° 5 | 8°15 | 11°34 | 24°57 | 26° 9 | 14°43 | n.a. | S 20 |
| M21 | 21 47 20 | 24°52'15 | 12♌58 | 16°41 | 9°46 | 28° 1 | 28° 0 | 29°39 | 11° 8 | 8°17 | 11°35 | 24°53 | 26° 6 | 14°49 | n.a. | M21 |
| T 22 | 21 51 17 | 25°51'00 | 28° 4 | 18°33 | 10°36 | 28°31 | 28°13 | 29°42 | 11°11 | 8°19 | 11°35 | 24°49 | 26° 3 | 14°56 | n.a. | T 22 |
| W23 | 21 55 13 | 26°49'47 | 13♍13 | 20°25 | 11°26 | 29° 2 | 28°26 | 29°44 | 11°13 | 8°20 | 11°36 | 24°48 | 26° 0 | 15° 3 | n.a. | W23 |
| T 24 | 21 59 10 | 27°48'36 | 28°17 | 22°17 | 12°18 | 29°32 | 28°39 | 29°47 | 11°16 | 8°22 | 11°36 | 24°D47 | 25°57 | 15° 9 | n.a. | T 24 |
| F 25 | 22 3 7 | 28°47'27 | 13♎ 6 | 24° 8 | 13°10 | 0♊ 2 | 28°52 | 29°49 | 11°19 | 8°23 | 11°37 | 24°48 | 25°54 | 15°16 | n.a. | F 25 |
| S 26 | 22 7 3 | 29°46'20 | 27°35 | 25°59 | 14° 2 | 0°32 | 29° 5 | 29°51 | 11°22 | 8°25 | 11°37 | 24°49 | 25°50 | 15°23 | n.a. | S 26 |
| S 27 | 22 11 0 | 0♍45'14 | 11♏41 | 27°49 | 14°56 | 1° 1 | 29°18 | 29°53 | 11°25 | 8°26 | 11°37 | 24°51 | 25°47 | 15°29 | n.a. | S 27 |
| M28 | 22 14 56 | 1°44'11 | 25°23 | 29°39 | 15°50 | 1°31 | 29°31 | 29°55 | 11°27 | 8°28 | 11°38 | 24°52 | 25°44 | 15°36 | n.a. | M28 |
| T 29 | 22 18 53 | 2°43'09 | 8♐42 | 1♍27 | 16°44 | 1°59 | 29°44 | 29°57 | 11°30 | 8°29 | 11°38 | 24°R52 | 25°41 | 15°43 | n.a. | T 29 |
| W30 | 22 22 49 | 3°42'10 | 21°40 | 3°15 | 17°39 | 2°28 | 29°57 | 29°59 | 11°32 | 8°31 | 11°39 | 24°51 | 25°38 | 15°49 | n.a. | W30 |
| T 31 | 22 26 46 | 4♍41'12 | 4♑21 | 5♍ 3 | 18♋35 | 2♊56 | 0♍10 | 0♊ 1 | 11♋35 | 8♋32 | 11♊39 | 24♓49 | 25♓34 | 15♓56 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 19n 8 | 24s32 | 4s33 | 21n 1 | 1s26 | 17n58 | 5s41 | 16n 4 | 1s 3 | 14n49 | 1n 7 | 18n23 | 1s41 | 23n44 | 0n25 | 23n 4 | 0s25 | 18n39 | 3s46 | 1s36 | 1s 8 | 8s 6 | | n.a. |
| W 2 | 18 53 | 27 22 | 4 58 | 21 14 | 1 9 | 18 4 | 5 36 | 16 15 | 1 2 | 14 45 | 1 7 | 18 24 | 1 41 | 23 44 | 0 25 | 23 4 | 0 25 | 18 39 | 3 46 | 1 38 | 1 10 | 8 3 | | n.a. |
| T 3 | 18 38 | 28 43 | 5 7 | 21 25 | 0 52 | 18 10 | 5 31 | 16 26 | 1 2 | 14 41 | 1 7 | 18 25 | 1 41 | 23 44 | 0 25 | 23 4 | 0 25 | 18 40 | 3 46 | 1 40 | 1 11 | 7 59 | | n.a. |
| F 4 | 18 23 | 28 31 | 5 1 | 21 35 | 0 35 | 18 16 | 5 25 | 16 36 | 1 1 | 14 36 | 1 7 | 18 26 | 1 41 | 23 44 | 0 25 | 23 4 | 0 25 | 18 40 | 3 46 | 1 43 | 1 12 | 7 56 | | n.a. |
| S 5 | 18 8 | 26 52 | 4 41 | 21 42 | 0 19 | 18 22 | 5 20 | 16 46 | 1 0 | 14 32 | 1 7 | 18 27 | 1 42 | 23 43 | 0 25 | 23 4 | 0 25 | 18 40 | 3 46 | 1 47 | 1 14 | 7 52 | | n.a. |
| S 6 | 17 52 | 23 57 | 4 8 | 21 47 | 0 4 | 18 28 | 5 14 | 16 57 | 0 59 | 14 28 | 1 7 | 18 28 | 1 42 | 23 43 | 0 25 | 23 4 | 0 25 | 18 40 | 3 46 | 1 50 | 1 15 | 7 49 | | n.a. |
| M 7 | 17 36 | 20 1 | 3 24 | 21 49 | 0n10 | 18 34 | 5 8 | 17 7 | 0 58 | 14 23 | 1 7 | 18 28 | 1 42 | 23 43 | 0 26 | 23 4 | 0 25 | 18 40 | 3 46 | 1 53 | 1 16 | 7 46 | | n.a. |
| T 8 | 17 20 | 15 20 | 2 31 | 21 49 | 0 23 | 18 40 | 5 2 | 17 17 | 0 58 | 14 19 | 1 7 | 18 29 | 1 42 | 23 43 | 0 26 | 23 4 | 0 24 | 18 40 | 3 46 | 1 55 | 1 17 | 7 42 | | n.a. |
| W 9 | 17 3 | 10 6 | 1 32 | 21 46 | 0 36 | 18 46 | 4 56 | 17 26 | 0 57 | 14 15 | 1 7 | 18 30 | 1 42 | 23 42 | 0 26 | 23 3 | 0 24 | 18 40 | 3 46 | 1 57 | 1 19 | 7 39 | | n.a. |
| T 10 | 16 46 | 4 33 | 0 29 | 21 41 | 0 47 | 18 52 | 4 50 | 17 36 | 0 56 | 14 10 | 1 7 | 18 31 | 1 42 | 23 42 | 0 26 | 23 3 | 0 24 | 18 40 | 3 46 | 1 57 | 1 20 | 7 36 | | n.a. |
| F 11 | 16 29 | 1n 8 | 0n35 | 21 32 | 0 58 | 18 58 | 4 44 | 17 45 | 0 55 | 14 6 | 1 7 | 18 31 | 1 42 | 23 42 | 0 26 | 23 3 | 0 24 | 18 40 | 3 46 | 1 57 | 1 21 | 7 32 | | n.a. |
| S 12 | 16 11 | 6 49 | 1 38 | 21 21 | 1 8 | 19 3 | 4 37 | 17 55 | 0 54 | 14 1 | 1 7 | 18 32 | 1 42 | 23 42 | 0 26 | 23 3 | 0 24 | 18 40 | 3 46 | 1 57 | 1 22 | 7 29 | | n.a. |
| S 13 | 15 54 | 12 19 | 2 37 | 21 7 | 1 16 | 19 8 | 4 31 | 18 4 | 0 53 | 13 57 | 1 7 | 18 33 | 1 42 | 23 42 | 0 26 | 23 3 | 0 24 | 18 40 | 3 46 | 1 56 | 1 24 | 7 25 | | n.a. |
| M14 | 15 36 | 17 26 | 3 30 | 20 50 | 1 23 | 19 13 | 4 25 | 18 13 | 0 52 | 13 52 | 1 7 | 18 33 | 1 42 | 23 41 | 0 26 | 23 3 | 0 24 | 18 41 | 3 46 | 1 56 | 1 25 | 7 22 | | n.a. |
| T 15 | 15 17 | 21 58 | 4 15 | 20 31 | 1 30 | 19 18 | 4 18 | 18 22 | 0 51 | 13 48 | 1 7 | 18 34 | 1 43 | 23 41 | 0 26 | 23 3 | 0 24 | 18 41 | 3 46 | 1 55 | 1 26 | 7 19 | | n.a. |
| W16 | 14 59 | 25 37 | 4 49 | 20 9 | 1 35 | 19 23 | 4 12 | 18 30 | 0 50 | 13 43 | 1 7 | 18 35 | 1 43 | 23 41 | 0 26 | 23 3 | 0 24 | 18 41 | 3 46 | 1 56 | 1 28 | 7 15 | | n.a. |
| T 17 | 14 40 | 28 3 | 5 8 | 19 44 | 1 40 | 19 27 | 4 5 | 18 39 | 0 49 | 13 39 | 1 7 | 18 35 | 1 43 | 23 41 | 0 26 | 23 3 | 0 24 | 18 41 | 3 46 | 1 57 | 1 29 | 7 12 | | n.a. |
| F 18 | 14 21 | 28 54 | 5 12 | 19 18 | 1 44 | 19 31 | 3 59 | 18 47 | 0 48 | 13 35 | 1 7 | 18 36 | 1 43 | 23 40 | 0 26 | 23 2 | 0 24 | 18 41 | 3 46 | 1 58 | 1 30 | 7 8 | | n.a. |
| S 19 | 14 2 | 27 56 | 4 57 | 18 49 | 1 46 | 19 35 | 3 53 | 18 56 | 0 47 | 13 30 | 1 7 | 18 36 | 1 43 | 23 40 | 0 26 | 23 2 | 0 24 | 18 41 | 3 46 | 2 0 | 1 31 | 7 5 | | n.a. |
| S 20 | 13 42 | 25 3 | 4 22 | 18 18 | 1 48 | 19 38 | 3 46 | 19 4 | 0 46 | 13 25 | 1 7 | 18 37 | 1 43 | 23 40 | 0 26 | 23 2 | 0 24 | 18 41 | 3 46 | 2 2 | 1 33 | 7 2 | | n.a. |
| M21 | 13 23 | 20 27 | 3 30 | 17 45 | 1 49 | 19 42 | 3 39 | 19 12 | 0 45 | 13 21 | 1 7 | 18 37 | 1 43 | 23 40 | 0 26 | 23 2 | 0 24 | 18 41 | 3 46 | 2 3 | 1 34 | 6 58 | | n.a. |
| T 22 | 13 3 | 14 29 | 2 21 | 17 11 | 1 50 | 19 44 | 3 33 | 19 20 | 0 44 | 13 16 | 1 7 | 18 38 | 1 43 | 23 39 | 0 26 | 23 2 | 0 24 | 18 41 | 3 46 | 2 5 | 1 35 | 6 55 | | n.a. |
| W23 | 12 42 | 7 38 | 1 3 | 16 35 | 1 50 | 19 47 | 3 26 | 19 28 | 0 43 | 13 12 | 1 7 | 18 38 | 1 43 | 23 39 | 0 26 | 23 2 | 0 24 | 18 41 | 3 46 | 2 5 | 1 36 | 6 51 | | n.a. |
| T 24 | 12 22 | 0 24 | 0s19 | 15 57 | 1 49 | 19 49 | 3 20 | 19 35 | 0 42 | 13 7 | 1 7 | 18 38 | 1 44 | 23 39 | 0 26 | 23 2 | 0 24 | 18 41 | 3 47 | 2 6 | 1 38 | 6 48 | | n.a. |
| F 25 | 12 1 | 6s45 | 1 39 | 15 19 | 1 47 | 19 50 | 3 13 | 19 43 | 0 41 | 13 3 | 1 7 | 18 39 | 1 44 | 23 39 | 0 26 | 23 2 | 0 24 | 18 41 | 3 47 | 2 5 | 1 39 | 6 45 | | n.a. |
| S 26 | 11 41 | 13 23 | 2 51 | 14 39 | 1 45 | 19 52 | 3 7 | 19 50 | 0 40 | 12 58 | 1 7 | 18 39 | 1 44 | 23 39 | 0 26 | 23 2 | 0 24 | 18 41 | 3 47 | 2 5 | 1 40 | 6 41 | | n.a. |
| S 27 | 11 20 | 19 9 | 3 50 | 13 58 | 1 43 | 19 52 | 3 0 | 19 57 | 0 39 | 12 54 | 1 7 | 18 40 | 1 44 | 23 38 | 0 26 | 23 2 | 0 24 | 18 41 | 3 47 | 2 4 | 1 42 | 6 38 | | n.a. |
| M28 | 10 58 | 23 45 | 4 35 | 13 17 | 1 40 | 19 53 | 2 54 | 20 5 | 0 38 | 12 49 | 1 7 | 18 40 | 1 44 | 23 38 | 0 26 | 23 1 | 0 24 | 18 41 | 3 47 | 2 4 | 1 43 | 6 34 | | n.a. |
| T 29 | 10 37 | 26 59 | 5 3 | 12 35 | 1 37 | 19 53 | 2 47 | 20 12 | 0 37 | 12 44 | 1 7 | 18 40 | 1 44 | 23 38 | 0 26 | 23 1 | 0 24 | 18 41 | 3 47 | 2 4 | 1 44 | 6 31 | | n.a. |
| W30 | 10 16 | 28 41 | 5 15 | 11 52 | 1 33 | 19 52 | 2 41 | 20 18 | 0 35 | 12 40 | 1 7 | 18 40 | 1 44 | 23 38 | 0 26 | 23 1 | 0 24 | 18 41 | 3 47 | 2 4 | 1 45 | 6 28 | | n.a. |
| T 31 | 9n54 | 28s49 | 5s11 | 11n 8 | 1n29 | 19n51 | 2s34 | 20n25 | 0s34 | 12n35 | 1n 7 | 18n41 | 1s44 | 23n38 | 0n26 | 23n 1 | 0s24 | 18n41 | 3s47 | 2s 5 | 1s47 | 6s24 | | n.a. |

Julian Day Number = 1699355.5, Delta T = 03h06m23s
Ecliptic obliquity = 23°42'17, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°53'53, Lahiri = - 4°46'52 Julian Calendar 1 Aug. 61 BCE == Greg. Calendar 30 July 061 BCE

The year -60 astronomical counting style corresponds to year 061 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 61 BCE
# geocentric

## SEPTEMBER 61 BCE (-60) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 22 30 42 | 5♍40'16 | 16♉46 | 6♍49 | 19♋31 | 3♊24 | 0♍23 | 0♊ 2 | 11♋38 | 8♋34 | 11♊39 | 24°R46 | 25♓31 | 16♓ 2 | n.a. | F 1 |
| S 2 | 22 34 39 | 6°39'22 | 29° 0 | 8°35 | 20°28 | 3°52 | 0°36 | 0° 4 | 11°40 | 8°35 | 11°40 | 24♓43 | 25°28 | 16° 9 | n.a. | S 2 |
| S 3 | 22 38 36 | 7°38'29 | 11♒ 3 | 10°19 | 21°25 | 4°19 | 0°49 | 0° 5 | 11°43 | 8°36 | 11°40 | 24°40 | 25°25 | 16°16 | n.a. | S 3 |
| M 4 | 22 42 32 | 8°37'39 | 23° 0 | 12° 3 | 22°23 | 4°46 | 1° 2 | 0° 6 | 11°45 | 8°38 | 11°40 | 24°38 | 25°22 | 16°22 | n.a. | M 4 |
| T 5 | 22 46 29 | 9°36'51 | 4♓51 | 13°46 | 23°21 | 5°13 | 1°15 | 0° 8 | 11°47 | 8°39 | 11°40 | 24°36 | 25°19 | 16°29 | n.a. | T 5 |
| W 6 | 22 50 25 | 10°36'05 | 16°40 | 15°28 | 24°20 | 5°39 | 1°28 | 0° 9 | 11°50 | 8°40 | 11°41 | 24°36 | 25°15 | 16°36 | n.a. | W 6 |
| T 7 | 22 54 22 | 11°35'21 | 28°27 | 17°10 | 25°19 | 6° 5 | 1°41 | 0°10 | 11°52 | 8°42 | 11°41 | 24°D35 | 25°12 | 16°42 | n.a. | T 7 |
| F 8 | 22 58 18 | 12°34'39 | 10♈16 | 18°50 | 26°19 | 6°31 | 1°54 | 0°10 | 11°54 | 8°43 | 11°41 | 24°36 | 25° 9 | 16°49 | n.a. | F 8 |
| S 9 | 23 2 15 | 13°34'00 | 22° 9 | 20°30 | 27°19 | 6°56 | 2° 7 | 0°11 | 11°56 | 8°44 | 11°41 | 24°37 | 25° 6 | 16°56 | n.a. | S 9 |
| S 10 | 23 6 11 | 14°33'23 | 4♉10 | 22° 9 | 28°20 | 7°21 | 2°20 | 0°12 | 11°58 | 8°45 | 11°41 | 24°38 | 25° 3 | 17° 2 | n.a. | S 10 |
| M11 | 23 10 8 | 15°32'48 | 16°21 | 23°47 | 29°21 | 7°46 | 2°32 | 0°12 | 12° 1 | 8°46 | 11°41 | 24°39 | 24°59 | 17° 9 | n.a. | M11 |
| T 12 | 23 14 4 | 16°32'16 | 28°46 | 25°25 | 0♌22 | 8°10 | 2°45 | 0°12 | 12° 3 | 8°47 | 11°41 | 24°40 | 24°56 | 17°16 | n.a. | T 12 |
| W13 | 23 18 1 | 17°31'46 | 11♊29 | 27° 1 | 1°24 | 8°34 | 2°58 | 0°13 | 12° 5 | 8°48 | 11°41 | 24°40 | 24°53 | 17°22 | n.a. | W13 |
| T 14 | 23 21 58 | 18°31'18 | 24°34 | 28°37 | 2°26 | 8°57 | 3°11 | 0°13 | 12° 7 | 8°49 | 11°R41 | 24°R40 | 24°50 | 17°29 | n.a. | T 14 |
| F 15 | 23 25 54 | 19°30'53 | 8♋ 4 | 0♎13 | 3°28 | 9°21 | 3°24 | 0°R13 | 12° 9 | 8°50 | 11°41 | 24°40 | 24°47 | 17°36 | n.a. | F 15 |
| S 16 | 23 29 51 | 20°30'31 | 22° 0 | 1°47 | 4°31 | 9°43 | 3°36 | 0°13 | 12°10 | 8°51 | 11°41 | 24°39 | 24°44 | 17°42 | n.a. | S 16 |
| S 17 | 23 33 47 | 21°30'11 | 6♌22 | 3°21 | 5°34 | 10° 5 | 3°49 | 0°13 | 12°12 | 8°52 | 11°41 | 24°39 | 24°40 | 17°49 | n.a. | S 17 |
| M18 | 23 37 44 | 22°29'53 | 21° 7 | 4°55 | 6°38 | 10°27 | 4° 2 | 0°12 | 12°14 | 8°53 | 11°41 | 24°39 | 24°37 | 17°55 | n.a. | M18 |
| T 19 | 23 41 40 | 23°29'37 | 6♍10 | 6°28 | 7°42 | 10°48 | 4°15 | 0°12 | 12°16 | 8°54 | 11°41 | 24°38 | 24°34 | 18° 2 | n.a. | T 19 |
| W20 | 23 45 37 | 24°29'23 | 21°21 | 8° 0 | 8°46 | 11° 9 | 4°27 | 0°11 | 12°18 | 8°55 | 11°41 | 24°38 | 24°31 | 18° 9 | n.a. | W20 |
| T 21 | 23 49 33 | 25°29'12 | 6♎33 | 9°31 | 9°50 | 11°29 | 4°40 | 0°11 | 12°19 | 8°56 | 11°41 | 24°38 | 24°28 | 18°15 | n.a. | T 21 |
| F 22 | 23 53 30 | 26°29'02 | 21°34 | 11° 2 | 10°55 | 11°49 | 4°52 | 0°10 | 12°21 | 8°56 | 11°41 | 24°38 | 24°25 | 18°22 | n.a. | F 22 |
| S 23 | 23 57 27 | 27°28'55 | 6♏18 | 12°32 | 12° 0 | 12° 9 | 5° 5 | 0° 9 | 12°22 | 8°57 | 11°40 | 24°38 | 24°21 | 18°29 | n.a. | S 23 |
| S 24 | 0 1 23 | 28°28'49 | 20°38 | 14° 2 | 13° 5 | 12°28 | 5°17 | 0° 8 | 12°24 | 8°58 | 11°40 | 24°38 | 24°18 | 18°35 | n.a. | S 24 |
| M25 | 0 5 20 | 29°28'45 | 4♐31 | 15°31 | 14°11 | 12°46 | 5°30 | 0° 7 | 12°25 | 8°59 | 11°40 | 24°37 | 24°15 | 18°42 | n.a. | M25 |
| T 26 | 0 9 16 | 0♎28'43 | 17°57 | 16°59 | 15°17 | 13° 4 | 5°42 | 0° 6 | 12°27 | 8°59 | 11°40 | 24°37 | 24°12 | 18°49 | n.a. | T 26 |
| W27 | 0 13 13 | 1°28'43 | 0♉58 | 18°27 | 16°23 | 13°21 | 5°55 | 0° 4 | 12°28 | 9° 0 | 11°39 | 24°D37 | 24° 9 | 18°55 | n.a. | W27 |
| T 28 | 0 17 9 | 2°28'44 | 13°36 | 19°54 | 17°29 | 13°38 | 6° 7 | 0° 3 | 12°29 | 9° 0 | 11°39 | 24°37 | 24° 5 | 19° 2 | n.a. | T 28 |
| F 29 | 0 21 6 | 3°28'48 | 25°57 | 21°21 | 18°36 | 13°54 | 6°19 | 0° 1 | 12°30 | 9° 1 | 11°39 | 24°37 | 24° 2 | 19° 9 | n.a. | F 29 |
| S 30 | 0 25 2 | 4♎28'52 | 8♒ 3 | 22♎46 | 19♌42 | 14♊10 | 6♍32 | 29♉59 | 12♋32 | 9♋ 1 | 11♊38 | 24♓38 | 23♓59 | 19♓15 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 9n32 | 27s28 | 4s53 | 10n24 | 1n24 | 19n49 | 2s28 | 20n32 | 0s33 | 12n31 | 1n 8 | 18n41 | 1s45 | 23n37 | 0n26 | 23n 1 | 0s24 | 18n41 | 3s47 | 2s 6 | 1s48 | 6s21 | | n.a. |
| S 2 | 9 10 | 24 50 | 4 21 | 9 40 | 1 19 | 19 47 | 2 22 | 20 38 | 0 32 | 12 26 | 1 8 | 18 41 | 1 45 | 23 37 | 0 26 | 23 1 | 0 24 | 18 41 | 3 47 | 2 7 | 1 49 | 6 17 | | n.a. |
| S 3 | 8 48 | 21 8 | 3 38 | 8 56 | 1 14 | 19 45 | 2 15 | 20 45 | 0 31 | 12 21 | 1 8 | 18 41 | 1 45 | 23 37 | 0 26 | 23 1 | 0 24 | 18 41 | 3 47 | 2 8 | 1 50 | 6 14 | | n.a. |
| M 4 | 8 25 | 16 37 | 2 46 | 8 11 | 1 9 | 19 42 | 2 9 | 20 51 | 0 29 | 12 17 | 1 8 | 18 41 | 1 45 | 23 37 | 0 26 | 23 1 | 0 24 | 18 41 | 3 47 | 2 9 | 1 52 | 6 11 | | n.a. |
| T 5 | 8 3 | 11 30 | 1 47 | 7 26 | 1 4 | 19 39 | 2 3 | 20 57 | 0 28 | 12 12 | 1 8 | 18 42 | 1 45 | 23 37 | 0 26 | 23 1 | 0 24 | 18 41 | 3 47 | 2 10 | 1 53 | 6 7 | | n.a. |
| W 6 | 7 40 | 6 0 | 0 44 | 6 40 | 0 58 | 19 35 | 1 57 | 21 3 | 0 27 | 12 8 | 1 8 | 18 42 | 1 45 | 23 36 | 0 26 | 23 1 | 0 24 | 18 41 | 3 47 | 2 10 | 1 54 | 6 4 | | n.a. |
| T 7 | 7 18 | 0 18 | 0n21 | 5 55 | 0 52 | 19 30 | 1 50 | 21 9 | 0 25 | 12 3 | 1 8 | 18 42 | 1 45 | 23 36 | 0 26 | 23 1 | 0 24 | 18 41 | 3 47 | 2 10 | 1 56 | 6 0 | | n.a. |
| F 8 | 6 55 | 5n25 | 1 26 | 5 10 | 0 46 | 19 25 | 1 44 | 21 14 | 0 24 | 11 58 | 1 8 | 18 42 | 1 45 | 23 36 | 0 26 | 23 1 | 0 24 | 18 41 | 3 47 | 2 10 | 1 57 | 5 57 | | n.a. |
| S 9 | 6 32 | 10 59 | 2 27 | 4 25 | 0 40 | 19 19 | 1 38 | 21 20 | 0 23 | 11 54 | 1 8 | 18 42 | 1 45 | 23 36 | 0 26 | 23 0 | 0 24 | 18 41 | 3 47 | 2 10 | 1 58 | 5 53 | | n.a. |
| S 10 | 6 9 | 16 13 | 3 22 | 3 39 | 0 33 | 19 13 | 1 32 | 21 26 | 0 21 | 11 49 | 1 8 | 18 42 | 1 46 | 23 36 | 0 26 | 23 0 | 0 24 | 18 41 | 3 47 | 2 9 | 1 59 | 5 50 | | n.a. |
| M11 | 5 46 | 20 53 | 4 10 | 2 54 | 0 27 | 19 7 | 1 26 | 21 31 | 0 20 | 11 44 | 1 8 | 18 42 | 1 46 | 23 36 | 0 26 | 23 0 | 0 24 | 18 41 | 3 47 | 2 9 | 2 1 | 5 47 | | n.a. |
| T 12 | 5 22 | 24 45 | 4 46 | 2 9 | 0 20 | 18 59 | 1 20 | 21 36 | 0 19 | 11 40 | 1 8 | 18 42 | 1 46 | 23 35 | 0 26 | 23 0 | 0 24 | 18 41 | 3 47 | 2 9 | 2 2 | 5 43 | | n.a. |
| W13 | 4 59 | 27 31 | 5 9 | 1 24 | 0 13 | 18 52 | 1 14 | 21 42 | 0 17 | 11 35 | 1 8 | 18 42 | 1 46 | 23 35 | 0 26 | 23 0 | 0 24 | 18 41 | 3 47 | 2 9 | 2 3 | 5 40 | | n.a. |
| T 14 | 4 35 | 28 53 | 5 18 | 0 39 | 0 7 | 18 43 | 1 9 | 21 47 | 0 16 | 11 31 | 1 8 | 18 42 | 1 46 | 23 35 | 0 26 | 23 0 | 0 24 | 18 41 | 3 47 | 2 9 | 2 5 | 5 36 | | n.a. |
| F 15 | 4 12 | 28 36 | 5 9 | 0s 5 | 0s 0 | 18 35 | 1 3 | 21 52 | 0 14 | 11 26 | 1 8 | 18 42 | 1 46 | 23 35 | 0 26 | 23 0 | 0 24 | 18 41 | 3 47 | 2 9 | 2 6 | 5 33 | | n.a. |
| S 16 | 3 48 | 26 32 | 4 42 | 0 49 | 0 7 | 18 25 | 0 57 | 21 57 | 0 13 | 11 21 | 1 9 | 18 41 | 1 46 | 23 35 | 0 27 | 23 0 | 0 24 | 18 41 | 3 47 | 2 9 | 2 7 | 5 29 | | n.a. |
| S 17 | 3 24 | 22 43 | 3 57 | 1 34 | 0 14 | 18 15 | 0 52 | 22 1 | 0 11 | 11 17 | 1 9 | 18 41 | 1 46 | 23 35 | 0 27 | 23 0 | 0 24 | 18 41 | 3 47 | 2 9 | 2 8 | 5 26 | | n.a. |
| M18 | 3 1 | 17 23 | 2 56 | 2 17 | 0 21 | 18 5 | 0 46 | 22 6 | 0 10 | 11 12 | 1 9 | 18 41 | 1 46 | 23 35 | 0 27 | 23 0 | 0 24 | 18 41 | 3 47 | 2 9 | 2 10 | 5 23 | | n.a. |
| T 19 | 2 37 | 10 55 | 1 41 | 3 1 | 0 28 | 17 54 | 0 40 | 22 11 | 0 8 | 11 8 | 1 9 | 18 41 | 1 47 | 23 34 | 0 27 | 23 0 | 0 24 | 18 41 | 3 47 | 2 9 | 2 11 | 5 19 | | n.a. |
| W20 | 2 13 | 3 45 | 0 18 | 3 44 | 0 34 | 17 42 | 0 35 | 22 15 | 0 7 | 11 3 | 1 9 | 18 41 | 1 47 | 23 34 | 0 27 | 23 0 | 0 24 | 18 41 | 3 47 | 2 9 | 2 12 | 5 16 | | n.a. |
| T 21 | 1 49 | 3s38 | 1s 6 | 4 27 | 0 41 | 17 30 | 0 30 | 22 20 | 0 5 | 10 58 | 1 9 | 18 40 | 1 47 | 23 34 | 0 27 | 23 0 | 0 24 | 18 41 | 3 47 | 2 9 | 2 13 | 5 12 | | n.a. |
| F 22 | 1 25 | 10 43 | 2 24 | 5 9 | 0 48 | 17 18 | 0 24 | 22 24 | 0 3 | 10 54 | 1 9 | 18 40 | 1 47 | 23 34 | 0 27 | 23 0 | 0 24 | 18 41 | 3 47 | 2 9 | 2 15 | 5 9 | | n.a. |
| S 23 | 1 1 | 17 5 | 3 32 | 5 51 | 0 55 | 17 5 | 0 19 | 22 28 | 0 2 | 10 49 | 1 9 | 18 40 | 1 47 | 23 34 | 0 27 | 23 0 | 0 24 | 18 41 | 3 48 | 2 9 | 2 16 | 5 5 | | n.a. |
| S 24 | 0 37 | 22 20 | 4 24 | 6 32 | 1 2 | 16 51 | 0 14 | 22 32 | 0n 0 | 10 45 | 1 9 | 18 40 | 1 47 | 23 34 | 0 27 | 22 59 | 0 24 | 18 41 | 3 48 | 2 9 | 2 17 | 5 2 | | n.a. |
| M25 | 0 13 | 26 10 | 4 58 | 7 13 | 1 8 | 16 37 | 0 9 | 22 37 | 0 2 | 10 40 | 1 9 | 18 39 | 1 47 | 23 34 | 0 27 | 22 59 | 0 24 | 18 41 | 3 48 | 2 10 | 2 19 | 4 59 | | n.a. |
| T 26 | 0s12 | 28 23 | 5 16 | 7 54 | 1 15 | 16 22 | 0 4 | 22 41 | 0 4 | 10 36 | 1 9 | 18 39 | 1 47 | 23 34 | 0 27 | 22 59 | 0 24 | 18 40 | 3 48 | 2 10 | 2 20 | 4 55 | | n.a. |
| W27 | 0 36 | 28 58 | 5 16 | 8 34 | 1 21 | 16 7 | 0n 1 | 22 45 | 0 5 | 10 31 | 1 10 | 18 38 | 1 47 | 23 34 | 0 27 | 22 59 | 0 24 | 18 40 | 3 48 | 2 10 | 2 21 | 4 52 | | n.a. |
| T 28 | 1 0 | 27 59 | 5 1 | 9 13 | 1 28 | 15 51 | 0 5 | 22 48 | 0 7 | 10 27 | 1 10 | 18 38 | 1 48 | 23 33 | 0 27 | 22 59 | 0 24 | 18 40 | 3 48 | 2 10 | 2 22 | 4 48 | | n.a. |
| F 29 | 1 24 | 25 38 | 4 32 | 9 52 | 1 34 | 15 35 | 0 10 | 22 52 | 0 9 | 10 22 | 1 10 | 18 38 | 1 48 | 23 33 | 0 27 | 22 59 | 0 24 | 18 40 | 3 48 | 2 10 | 2 24 | 4 45 | | n.a. |
| S 30 | 1s48 | 22s10 | 3s51 | 10s30 | 1s40 | 15n18 | 0n15 | 22n56 | 0n11 | 10n18 | 1n10 | 18n37 | 1s48 | 23n33 | 0n27 | 22n59 | 0s24 | 18n40 | 3s48 | 2s 9 | 2s25 | 4s41 | | n.a. |

Julian Day Number = 1699386.5, Delta T = 03h06m22s
Ecliptic obliquity = 23°42'18, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°53'48, Lahiri = - 4°46'48 Julian Calendar 1 Sept. 61 BCE == Greg. Calendar 30 Aug. 061 BCE

The year -60 astronomical counting style corresponds to year 061 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 61 BCE
# geocentric

## OCTOBER 61 BCE (-60) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 0 28 59 | 5♎28'59 | 19♒59 | 24♎11 | 20♌49 | 14♊25 | 6♍44 | 29°R58 | 12♋33 | 9♋ 2 | 11°R38 | 24♓39 | 23♓56 | 19♓22 | n.a. | S 1 |
| M 2 | 0 32 56 | 6°29'07 | 1♓49 | 25°36 | 21°57 | 14°40 | 6°56 | 29♉56 | 12°34 | 9° 2 | 11♊38 | 24°40 | 23°53 | 19°29 | n.a. | M 2 |
| T 3 | 0 36 52 | 7°29'17 | 13°37 | 26°59 | 23° 4 | 14°54 | 7° 8 | 29°54 | 12°35 | 9° 3 | 11°37 | 24°41 | 23°50 | 19°35 | n.a. | T 3 |
| W 4 | 0 40 49 | 8°29'29 | 25°25 | 28°22 | 24°12 | 15° 7 | 7°20 | 29°52 | 12°36 | 9° 3 | 11°37 | 24°R42 | 23°46 | 19°42 | n.a. | W 4 |
| T 5 | 0 44 45 | 9°29'42 | 7♈16 | 29°43 | 25°20 | 15°20 | 7°32 | 29°50 | 12°37 | 9° 4 | 11°36 | 24°41 | 23°43 | 19°48 | n.a. | T 5 |
| F 6 | 0 48 42 | 10°29'58 | 19°11 | 1♏ 4 | 26°28 | 15°32 | 7°44 | 29°48 | 12°38 | 9° 4 | 11°36 | 24°40 | 23°40 | 19°55 | n.a. | F 6 |
| S 7 | 0 52 38 | 11°30'15 | 1♉13 | 2°24 | 27°36 | 15°43 | 7°56 | 29°45 | 12°38 | 9° 4 | 11°35 | 24°38 | 23°37 | 20° 2 | n.a. | S 7 |
| S 8 | 0 56 35 | 12°30'34 | 13°24 | 3°42 | 28°45 | 15°54 | 8° 8 | 29°43 | 12°39 | 9° 4 | 11°35 | 24°35 | 23°34 | 20° 8 | n.a. | S 8 |
| M 9 | 1 0 31 | 13°30'55 | 25°46 | 4°59 | 29°54 | 16° 4 | 8°20 | 29°40 | 12°40 | 9° 5 | 11°34 | 24°32 | 23°31 | 20°15 | n.a. | M 9 |
| T 10 | 1 4 28 | 14°31'19 | 8♊20 | 6°15 | 1♍ 3 | 16°14 | 8°31 | 29°38 | 12°40 | 9° 5 | 11°34 | 24°29 | 23°27 | 20°22 | n.a. | T 10 |
| W11 | 1 8 24 | 15°31'44 | 21° 8 | 7°29 | 2°12 | 16°23 | 8°43 | 29°35 | 12°41 | 9° 5 | 11°33 | 24°27 | 23°24 | 20°28 | n.a. | W11 |
| T 12 | 1 12 21 | 16°32'11 | 4♋13 | 8°41 | 3°21 | 16°31 | 8°55 | 29°32 | 12°42 | 9° 5 | 11°32 | 24°25 | 23°21 | 20°35 | n.a. | T 12 |
| F 13 | 1 16 18 | 17°32'41 | 17°36 | 9°51 | 4°31 | 16°38 | 9° 6 | 29°29 | 12°42 | 9° 5 | 11°32 | 24°D25 | 23°18 | 20°42 | n.a. | F 13 |
| S 14 | 1 20 14 | 18°33'12 | 1♌21 | 10°59 | 5°40 | 16°45 | 9°18 | 29°26 | 12°43 | 9°R 5 | 11°31 | 24°25 | 23°15 | 20°48 | n.a. | S 14 |
| S 15 | 1 24 11 | 19°33'45 | 15°26 | 12° 4 | 6°50 | 16°51 | 9°29 | 29°23 | 12°43 | 9° 5 | 11°31 | 24°26 | 23°11 | 20°55 | n.a. | S 15 |
| M16 | 1 28 7 | 20°34'20 | 29°52 | 13° 6 | 8° 0 | 16°56 | 9°40 | 29°20 | 12°43 | 9° 5 | 11°30 | 24°28 | 23° 8 | 21° 2 | n.a. | M16 |
| T 17 | 1 32 4 | 21°34'57 | 14♍35 | 14° 6 | 9°10 | 17° 1 | 9°52 | 29°16 | 12°43 | 9° 5 | 11°29 | 24°29 | 23° 5 | 21° 8 | n.a. | T 17 |
| W18 | 1 36 0 | 22°35'36 | 29°32 | 15° 1 | 10°20 | 17° 4 | 10° 3 | 29°13 | 12°44 | 9° 5 | 11°28 | 24°R29 | 23° 2 | 21°15 | n.a. | W18 |
| T 19 | 1 39 57 | 23°36'17 | 14♎33 | 15°52 | 11°31 | 17° 7 | 10°14 | 29° 9 | 12°44 | 9° 5 | 11°28 | 24°28 | 22°59 | 21°21 | n.a. | T 19 |
| F 20 | 1 43 53 | 24°36'59 | 29°31 | 16°39 | 12°41 | 17° 9 | 10°25 | 29° 6 | 12°44 | 9° 5 | 11°27 | 24°25 | 22°56 | 21°28 | n.a. | F 20 |
| S 21 | 1 47 50 | 25°37'42 | 14♏18 | 17°20 | 13°52 | 17°10 | 10°36 | 29° 2 | 12°R44 | 9° 4 | 11°26 | 24°21 | 22°52 | 21°35 | n.a. | S 21 |
| S 22 | 1 51 47 | 26°38'27 | 28°45 | 17°56 | 15° 3 | 17°R11 | 10°47 | 28°58 | 12°44 | 9° 4 | 11°25 | 24°16 | 22°49 | 21°41 | n.a. | S 22 |
| M23 | 1 55 43 | 27°39'14 | 12♐47 | 18°24 | 16°14 | 17°10 | 10°58 | 28°55 | 12°44 | 9° 4 | 11°24 | 24°11 | 22°46 | 21°48 | n.a. | M23 |
| T 24 | 1 59 40 | 28°40'02 | 26°21 | 18°46 | 17°25 | 17° 9 | 11° 8 | 28°51 | 12°44 | 9° 3 | 11°24 | 24° 6 | 22°43 | 21°55 | n.a. | T 24 |
| W25 | 2 3 36 | 29°40'50 | 9♑28 | 18°59 | 18°36 | 17° 7 | 11°19 | 28°47 | 12°43 | 9° 3 | 11°23 | 24° 3 | 22°40 | 22° 1 | n.a. | W25 |
| T 26 | 2 7 33 | 0♏41'40 | 22°11 | 19°R 3 | 19°48 | 17° 4 | 11°29 | 28°43 | 12°43 | 9° 3 | 11°22 | 24° 1 | 22°36 | 22° 8 | n.a. | T 26 |
| F 27 | 2 11 29 | 1°42'31 | 4♒32 | 18°58 | 20°59 | 17° 0 | 11°40 | 28°39 | 12°43 | 9° 2 | 11°21 | 24°D 0 | 22°33 | 22°15 | n.a. | F 27 |
| S 28 | 2 15 26 | 2°43'23 | 16°37 | 18°42 | 22°11 | 16°56 | 11°50 | 28°34 | 12°43 | 9° 2 | 11°20 | 24° 1 | 22°30 | 22°21 | n.a. | S 28 |
| S 29 | 2 19 22 | 3°44'16 | 28°31 | 18°15 | 23°22 | 16°50 | 12° 0 | 28°30 | 12°42 | 9° 1 | 11°19 | 24° 3 | 22°27 | 22°28 | n.a. | S 29 |
| M30 | 2 23 19 | 4°45'10 | 10♓19 | 17°38 | 24°34 | 16°44 | 12°11 | 28°26 | 12°42 | 9° 1 | 11°18 | 24° 5 | 22°24 | 22°35 | n.a. | M30 |
| T 31 | 2 27 16 | 5♏46'04 | 22♓ 6 | 16♏50 | 25♍46 | 16♊37 | 12♍21 | 28♉21 | 12♋41 | 9♋ 0 | 11♊17 | 24°R 5 | 22♓21 | 22♓41 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| S 1 | 2s12 | 17s50 | 3s 1 | 11s 7 | 1s46 | 15n 1 | 0n19 | 23n 0 | 0n13 | 10n13 | 1n10 | 18n37 | 1s48 | 23n33 | 0n27 | 22n59 | 0s24 | 18n40 | 3s48 | 2s 9 | 2s26 | 4s38 | | | n.a. |
| M 2 | 2 36 | 12 52 | 2 4 | 11 44 | 1 52 | 14 43 | 0 24 | 23 3 | 0 15 | 10 9 | 1 10 | 18 36 | 1 48 | 23 33 | 0 27 | 22 59 | 0 24 | 18 40 | 3 48 | 2 8 | 2 27 | 4 34 | | | n.a. |
| T 3 | 3 0 | 7 27 | 1 1 | 12 20 | 1 57 | 14 25 | 0 28 | 23 7 | 0 16 | 10 4 | 1 10 | 18 36 | 1 48 | 23 33 | 0 27 | 22 59 | 0 24 | 18 40 | 3 48 | 2 8 | 2 29 | 4 31 | | | n.a. |
| W 4 | 3 24 | 1 47 | 0n 4 | 12 55 | 2 3 | 14 7 | 0 32 | 23 10 | 0 18 | 10 0 | 1 10 | 18 35 | 1 48 | 23 33 | 0 27 | 22 59 | 0 24 | 18 40 | 3 48 | 2 8 | 2 30 | 4 28 | | | n.a. |
| T 5 | 3 48 | 3n58 | 1 9 | 13 29 | 2 8 | 13 47 | 0 36 | 23 14 | 0 20 | 9 56 | 1 11 | 18 35 | 1 48 | 23 33 | 0 27 | 22 59 | 0 24 | 18 40 | 3 48 | 2 8 | 2 31 | 4 24 | | | n.a. |
| F 6 | 4 12 | 9 37 | 2 12 | 14 3 | 2 13 | 13 28 | 0 41 | 23 17 | 0 22 | 9 51 | 1 11 | 18 34 | 1 48 | 23 33 | 0 27 | 22 59 | 0 24 | 18 40 | 3 48 | 2 9 | 2 32 | 4 21 | | | n.a. |
| S 7 | 4 36 | 14 58 | 3 9 | 14 35 | 2 17 | 13 8 | 0 44 | 23 20 | 0 24 | 9 47 | 1 11 | 18 34 | 1 48 | 23 33 | 0 27 | 22 59 | 0 24 | 18 40 | 3 48 | 2 9 | 2 34 | 4 17 | | | n.a. |
| S 8 | 5 0 | 19 49 | 3 58 | 15 6 | 2 22 | 12 48 | 0 48 | 23 23 | 0 27 | 9 42 | 1 11 | 18 33 | 1 48 | 23 33 | 0 27 | 22 59 | 0 24 | 18 40 | 3 48 | 2 10 | 2 35 | 4 14 | | | n.a. |
| M 9 | 5 23 | 23 53 | 4 37 | 15 37 | 2 26 | 12 27 | 0 52 | 23 27 | 0 29 | 9 38 | 1 11 | 18 32 | 1 48 | 23 33 | 0 27 | 22 59 | 0 24 | 18 39 | 3 48 | 2 12 | 2 36 | 4 10 | | | n.a. |
| T 10 | 5 47 | 26 55 | 5 3 | 16 6 | 2 29 | 12 6 | 0 56 | 23 30 | 0 31 | 9 34 | 1 11 | 18 32 | 1 49 | 23 33 | 0 27 | 22 59 | 0 25 | 18 39 | 3 48 | 2 13 | 2 38 | 4 7 | | | n.a. |
| W11 | 6 11 | 28 38 | 5 15 | 16 33 | 2 33 | 11 44 | 0 59 | 23 33 | 0 33 | 9 29 | 1 11 | 18 31 | 1 49 | 23 33 | 0 27 | 22 59 | 0 25 | 18 39 | 3 48 | 2 14 | 2 39 | 4 3 | | | n.a. |
| T 12 | 6 34 | 28 49 | 5 11 | 17 0 | 2 35 | 11 22 | 1 3 | 23 36 | 0 35 | 9 25 | 1 11 | 18 30 | 1 49 | 23 33 | 0 27 | 22 59 | 0 25 | 18 39 | 3 48 | 2 14 | 2 40 | 4 0 | | | n.a. |
| F 13 | 6 58 | 27 19 | 4 50 | 17 25 | 2 38 | 10 59 | 1 6 | 23 39 | 0 37 | 9 21 | 1 12 | 18 30 | 1 49 | 23 33 | 0 27 | 22 59 | 0 25 | 18 39 | 3 48 | 2 15 | 2 41 | 3 57 | | | n.a. |
| S 14 | 7 21 | 24 11 | 4 12 | 17 49 | 2 40 | 10 37 | 1 10 | 23 42 | 0 40 | 9 17 | 1 12 | 18 29 | 1 49 | 23 33 | 0 27 | 22 59 | 0 25 | 18 39 | 3 48 | 2 14 | 2 43 | 3 53 | | | n.a. |
| S 15 | 7 44 | 19 33 | 3 19 | 18 10 | 2 41 | 10 13 | 1 13 | 23 45 | 0 42 | 9 13 | 1 12 | 18 28 | 1 49 | 23 33 | 0 27 | 22 59 | 0 25 | 18 39 | 3 48 | 2 14 | 2 44 | 3 50 | | | n.a. |
| M16 | 8 7 | 13 41 | 2 11 | 18 31 | 2 42 | 9 50 | 1 16 | 23 47 | 0 44 | 9 8 | 1 12 | 18 27 | 1 49 | 23 33 | 0 28 | 22 59 | 0 25 | 18 39 | 3 48 | 2 13 | 2 45 | 3 46 | | | n.a. |
| T 17 | 8 30 | 6 58 | 0 54 | 18 49 | 2 42 | 9 26 | 1 19 | 23 50 | 0 47 | 9 4 | 1 12 | 18 27 | 1 49 | 23 33 | 0 28 | 22 59 | 0 25 | 18 39 | 3 48 | 2 13 | 2 46 | 3 43 | | | n.a. |
| W18 | 8 53 | 0s14 | 0s28 | 19 5 | 2 41 | 9 2 | 1 22 | 23 53 | 0 49 | 9 0 | 1 12 | 18 26 | 1 49 | 23 33 | 0 28 | 22 59 | 0 25 | 18 38 | 3 48 | 2 13 | 2 48 | 3 39 | | | n.a. |
| T 19 | 9 16 | 7 27 | 1 48 | 19 18 | 2 39 | 8 37 | 1 24 | 23 56 | 0 51 | 8 56 | 1 13 | 18 25 | 1 49 | 23 33 | 0 28 | 22 59 | 0 25 | 18 38 | 3 48 | 2 13 | 2 49 | 3 36 | | | n.a. |
| F 20 | 9 38 | 14 14 | 3 0 | 19 30 | 2 37 | 8 13 | 1 27 | 23 58 | 0 54 | 8 52 | 1 13 | 18 24 | 1 49 | 23 33 | 0 28 | 22 59 | 0 25 | 18 38 | 3 48 | 2 14 | 2 50 | 3 32 | | | n.a. |
| S 21 | 10 1 | 20 7 | 4 0 | 19 38 | 2 33 | 7 47 | 1 30 | 24 1 | 0 56 | 8 48 | 1 13 | 18 23 | 1 49 | 23 33 | 0 28 | 22 59 | 0 25 | 18 38 | 3 48 | 2 16 | 2 52 | 3 29 | | | n.a. |
| S 22 | 10 23 | 24 41 | 4 42 | 19 44 | 2 29 | 7 22 | 1 32 | 24 3 | 0 59 | 8 44 | 1 13 | 18 23 | 1 49 | 23 33 | 0 28 | 22 59 | 0 25 | 18 38 | 3 48 | 2 18 | 2 53 | 3 25 | | | n.a. |
| M23 | 10 45 | 27 38 | 5 6 | 19 47 | 2 23 | 6 56 | 1 35 | 24 6 | 1 1 | 8 40 | 1 13 | 18 22 | 1 49 | 23 33 | 0 28 | 22 59 | 0 25 | 18 38 | 3 48 | 2 20 | 2 54 | 3 22 | | | n.a. |
| T 24 | 11 7 | 28 51 | 5 12 | 19 46 | 2 16 | 6 30 | 1 37 | 24 8 | 1 4 | 8 36 | 1 13 | 18 21 | 1 49 | 23 33 | 0 28 | 22 59 | 0 25 | 18 38 | 3 48 | 2 22 | 2 55 | 3 19 | | | n.a. |
| W25 | 11 29 | 28 22 | 5 1 | 19 42 | 2 7 | 6 4 | 1 39 | 24 11 | 1 6 | 8 32 | 1 14 | 18 20 | 1 49 | 23 33 | 0 28 | 22 59 | 0 25 | 18 38 | 3 48 | 2 23 | 2 57 | 3 15 | | | n.a. |
| T 26 | 11 51 | 26 23 | 4 35 | 19 33 | 1 57 | 5 38 | 1 41 | 24 13 | 1 9 | 8 28 | 1 14 | 18 19 | 1 49 | 23 33 | 0 28 | 22 59 | 0 25 | 18 38 | 3 48 | 2 24 | 2 58 | 3 12 | | | n.a. |
| F 27 | 12 12 | 23 11 | 3 58 | 19 21 | 1 46 | 5 11 | 1 43 | 24 15 | 1 12 | 8 24 | 1 14 | 18 18 | 1 49 | 23 33 | 0 28 | 22 59 | 0 25 | 18 37 | 3 48 | 2 24 | 2 59 | 3 8 | | | n.a. |
| S 28 | 12 33 | 19 3 | 3 10 | 19 4 | 1 33 | 4 44 | 1 45 | 24 17 | 1 14 | 8 20 | 1 14 | 18 17 | 1 49 | 23 33 | 0 28 | 22 59 | 0 25 | 18 37 | 3 48 | 2 24 | 3 0 | 3 5 | | | n.a. |
| S 29 | 12 54 | 14 13 | 2 15 | 18 42 | 1 18 | 4 17 | 1 46 | 24 19 | 1 17 | 8 17 | 1 14 | 18 16 | 1 49 | 23 33 | 0 28 | 22 59 | 0 25 | 18 37 | 3 48 | 2 23 | 3 2 | 3 1 | | | n.a. |
| M30 | 13 15 | 8 56 | 1 14 | 18 16 | 1 2 | 3 50 | 1 48 | 24 21 | 1 20 | 8 13 | 1 14 | 18 15 | 1 49 | 23 33 | 0 28 | 22 59 | 0 25 | 18 37 | 3 48 | 2 23 | 3 3 | 2 58 | | | n.a. |
| T 31 | 13s35 | 3s20 | 0s11 | 17s45 | 0s44 | 3n23 | 1n50 | 24n23 | 1n22 | 8n 9 | 1n15 | 18n14 | 1s49 | 23n33 | 0n28 | 22n59 | 0s25 | 18n37 | 3s48 | 2s22 | 3s 4 | 2s54 | | | n.a. |

Julian Day Number = 1699416.5, Delta T = 03h06m21s
Ecliptic obliquity = 23°42'18, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°53'44, Lahiri = - 4°46'44 Julian Calendar 1 Oct. 61 BCE == Greg. Calendar 29 Sept. 061 BCE

The year -60 astronomical counting style corresponds to year 061 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 61 BCE
# geocentric

## NOVEMBER 61 BCE (-60) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 2 31 12 | 6♏47'00 | 3♈55 | 15°R51 | 26♍58 | 16°R29 | 12♍31 | 28°R17 | 12°R41 | 9°R 0 | 11°R16 | 24°R 5 | 22♓17 | 22♓48 | n.a. | W 1 |
| T 2 | 2 35 9 | 7°47'57 | 15°51 | 14♏44 | 28°10 | 16♊20 | 12°41 | 28♉13 | 12♋40 | 8♋59 | 11♊15 | 24♓ 2 | 22°14 | 22°55 | n.a. | T 2 |
| F 3 | 2 39 5 | 8°48'55 | 27°56 | 13°29 | 29°22 | 16°10 | 12°50 | 28° 8 | 12°39 | 8°59 | 11°14 | 23°58 | 22°11 | 23° 1 | n.a. | F 3 |
| S 4 | 2 43 2 | 9°49'54 | 10♉11 | 12° 9 | 0♎34 | 16° 0 | 13° 0 | 28° 3 | 12°39 | 8°58 | 11°13 | 23°51 | 22° 8 | 23° 8 | n.a. | S 4 |
| S 5 | 2 46 58 | 10°50'54 | 22°38 | 10°46 | 1°47 | 15°48 | 13°10 | 27°59 | 12°38 | 8°57 | 11°12 | 23°42 | 22° 5 | 23°14 | n.a. | S 5 |
| M 6 | 2 50 55 | 11°51'55 | 5♊18 | 9°24 | 2°59 | 15°36 | 13°19 | 27°54 | 12°37 | 8°56 | 11°11 | 23°33 | 22° 2 | 23°21 | n.a. | M 6 |
| T 7 | 2 54 51 | 12°52'57 | 18° 9 | 8° 4 | 4°12 | 15°23 | 13°29 | 27°49 | 12°36 | 8°56 | 11°10 | 23°24 | 21°58 | 23°28 | n.a. | T 7 |
| W 8 | 2 58 48 | 13°54'00 | 1♋13 | 6°51 | 5°24 | 15° 9 | 13°38 | 27°45 | 12°35 | 8°55 | 11° 9 | 23°16 | 21°55 | 23°34 | n.a. | W 8 |
| T 9 | 3 2 45 | 14°55'05 | 14°29 | 5°44 | 6°37 | 14°55 | 13°47 | 27°40 | 12°34 | 8°54 | 11° 8 | 23°10 | 21°52 | 23°41 | n.a. | T 9 |
| F 10 | 3 6 41 | 15°56'11 | 27°57 | 4°48 | 7°50 | 14°40 | 13°56 | 27°35 | 12°33 | 8°53 | 11° 7 | 23° 6 | 21°49 | 23°48 | n.a. | F 10 |
| S 11 | 3 10 38 | 16°57'17 | 11♌38 | 4° 2 | 9° 3 | 14°23 | 14° 5 | 27°30 | 12°32 | 8°52 | 11° 6 | 23°D 4 | 21°46 | 23°54 | n.a. | S 11 |
| S 12 | 3 14 34 | 17°58'25 | 25°33 | 3°27 | 10°16 | 14° 7 | 14°14 | 27°25 | 12°31 | 8°51 | 11° 5 | 23° 4 | 21°42 | 24° 1 | n.a. | S 12 |
| M13 | 3 18 31 | 18°59'34 | 9♍41 | 3° 3 | 11°29 | 13°49 | 14°22 | 27°21 | 12°30 | 8°50 | 11° 4 | 23° 5 | 21°39 | 24° 8 | n.a. | M13 |
| T 14 | 3 22 27 | 20° 0'43 | 24° 1 | 2°51 | 12°42 | 13°31 | 14°31 | 27°16 | 12°28 | 8°50 | 11° 2 | 23°R 6 | 21°36 | 24°14 | n.a. | T 14 |
| W15 | 3 26 24 | 21° 1'54 | 8♎32 | 2°D49 | 13°55 | 13°12 | 14°39 | 27°11 | 12°27 | 8°49 | 11° 1 | 23° 5 | 21°33 | 24°21 | n.a. | W15 |
| T 16 | 3 30 21 | 22° 3'06 | 23°10 | 2°57 | 15° 8 | 12°52 | 14°48 | 27° 6 | 12°26 | 8°48 | 11° 0 | 23° 1 | 21°30 | 24°28 | n.a. | T 16 |
| F 17 | 3 34 17 | 23° 4'18 | 7♏48 | 3°14 | 16°21 | 12°32 | 14°56 | 27° 1 | 12°24 | 8°46 | 10°59 | 22°55 | 21°27 | 24°34 | n.a. | F 17 |
| S 18 | 3 38 14 | 24° 5'31 | 22°20 | 3°39 | 17°35 | 12°11 | 15° 4 | 26°56 | 12°23 | 8°45 | 10°58 | 22°47 | 21°23 | 24°41 | n.a. | S 18 |
| S 19 | 3 42 10 | 25° 6'45 | 6♐38 | 4°12 | 18°48 | 11°50 | 15°12 | 26°51 | 12°21 | 8°44 | 10°57 | 22°36 | 21°20 | 24°47 | n.a. | S 19 |
| M20 | 3 46 7 | 26° 7'59 | 20°37 | 4°51 | 20° 2 | 11°28 | 15°20 | 26°46 | 12°20 | 8°43 | 10°55 | 22°25 | 21°17 | 24°54 | n.a. | M20 |
| T 21 | 3 50 3 | 27° 9'13 | 4♑12 | 5°37 | 21°15 | 11° 6 | 15°28 | 26°41 | 12°18 | 8°42 | 10°54 | 22°15 | 21°14 | 25° 1 | n.a. | T 21 |
| W22 | 3 54 0 | 28°10'28 | 17°22 | 6°27 | 22°29 | 10°44 | 15°35 | 26°36 | 12°17 | 8°41 | 10°53 | 22° 6 | 21°11 | 25° 7 | n.a. | W22 |
| T 23 | 3 57 56 | 29°11'43 | 0♒ 8 | 7°22 | 23°42 | 10°21 | 15°43 | 26°31 | 12°15 | 8°40 | 10°52 | 21°59 | 21° 8 | 25°14 | n.a. | T 23 |
| F 24 | 4 1 53 | 0♐12'58 | 12°32 | 8°22 | 24°56 | 9°58 | 15°50 | 26°26 | 12°13 | 8°38 | 10°51 | 21°56 | 21° 4 | 25°21 | n.a. | F 24 |
| S 25 | 4 5 50 | 1°14'13 | 24°39 | 9°24 | 26°10 | 9°34 | 15°57 | 26°21 | 12°12 | 8°37 | 10°49 | 21°54 | 21° 1 | 25°27 | n.a. | S 25 |
| S 26 | 4 9 46 | 2°15'27 | 6♓34 | 10°30 | 27°23 | 9°10 | 16° 4 | 26°16 | 12°10 | 8°36 | 10°48 | 21°D54 | 20°58 | 25°34 | n.a. | S 26 |
| M27 | 4 13 43 | 3°16'42 | 18°22 | 11°39 | 28°37 | 8°47 | 16°11 | 26°11 | 12° 8 | 8°35 | 10°47 | 21°R54 | 20°55 | 25°41 | n.a. | M27 |
| T 28 | 4 17 39 | 4°17'57 | 0♈10 | 12°50 | 29°51 | 8°23 | 16°17 | 26° 6 | 12° 6 | 8°33 | 10°46 | 21°54 | 20°52 | 25°47 | n.a. | T 28 |
| W29 | 4 21 36 | 5°19'11 | 12° 1 | 14° 4 | 1♏ 5 | 7°59 | 16°24 | 26° 1 | 12° 4 | 8°32 | 10°44 | 21°52 | 20°48 | 25°54 | n.a. | W29 |
| T 30 | 4 25 32 | 6♐20'26 | 24♈ 1 | 15♏19 | 2♏19 | 7♊35 | 16♍30 | 25♉56 | 12♋ 2 | 8♋31 | 10♊43 | 21♓48 | 20♓45 | 26♓ 1 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 13s56 | 2n23 | 0n53 | 17s10 | 0s25 | 2n55 | 1n51 | 24n25 | 1n25 | 8n 5 | 1n15 | 18n13 | 1s49 | 23n33 | 0n28 | 22n59 | 0s25 | 18n37 | 3s48 | 2s23 | 3s 5 | 2s51 | | n.a. |
| T 2 | 14 16 | 8 4 | 1 55 | 16 31 | 0 5 | 2 27 | 1 52 | 24 27 | 1 28 | 8 2 | 1 15 | 18 12 | 1 49 | 23 34 | 0 28 | 22 59 | 0 25 | 18 37 | 3 48 | 2 24 | 3 7 | 2 47 | | n.a. |
| F 3 | 14 36 | 13 32 | 2 53 | 15 49 | 0n15 | 1 59 | 1 54 | 24 29 | 1 31 | 7 58 | 1 15 | 18 11 | 1 49 | 23 34 | 0 28 | 22 59 | 0 25 | 18 36 | 3 48 | 2 25 | 3 8 | 2 44 | | n.a. |
| S 4 | 14 55 | 18 33 | 3 43 | 15 5 | 0 36 | 1 31 | 1 55 | 24 30 | 1 33 | 7 55 | 1 15 | 18 10 | 1 49 | 23 34 | 0 28 | 22 59 | 0 25 | 18 36 | 3 48 | 2 28 | 3 9 | 2 40 | | n.a. |
| S 5 | 15 15 | 22 52 | 4 23 | 14 20 | 0 56 | 1 3 | 1 56 | 24 32 | 1 36 | 7 51 | 1 16 | 18 9 | 1 49 | 23 34 | 0 28 | 22 59 | 0 25 | 18 36 | 3 48 | 2 32 | 3 11 | 2 37 | | n.a. |
| M 6 | 15 34 | 26 12 | 4 52 | 13 36 | 1 15 | 0 35 | 1 57 | 24 33 | 1 39 | 7 48 | 1 16 | 18 8 | 1 49 | 23 34 | 0 28 | 22 59 | 0 25 | 18 36 | 3 48 | 2 35 | 3 12 | 2 34 | | n.a. |
| T 7 | 15 53 | 28 14 | 5 6 | 12 53 | 1 33 | 0 7 | 1 57 | 24 35 | 1 42 | 7 44 | 1 16 | 18 7 | 1 49 | 23 34 | 0 28 | 23 0 | 0 25 | 18 36 | 3 48 | 2 39 | 3 13 | 2 30 | | n.a. |
| W 8 | 16 11 | 28 46 | 5 4 | 12 13 | 1 50 | 0s22 | 1 58 | 24 36 | 1 44 | 7 41 | 1 16 | 18 6 | 1 49 | 23 34 | 0 28 | 23 0 | 0 25 | 18 36 | 3 48 | 2 42 | 3 14 | 2 27 | | n.a. |
| T 9 | 16 29 | 27 39 | 4 46 | 11 38 | 2 4 | 0 50 | 1 59 | 24 37 | 1 47 | 7 37 | 1 17 | 18 5 | 1 49 | 23 34 | 0 28 | 23 0 | 0 25 | 18 36 | 3 48 | 2 45 | 3 16 | 2 23 | | n.a. |
| F 10 | 16 47 | 24 55 | 4 12 | 11 8 | 2 16 | 1 19 | 1 59 | 24 38 | 1 50 | 7 34 | 1 17 | 18 4 | 1 49 | 23 35 | 0 28 | 23 0 | 0 25 | 18 36 | 3 48 | 2 46 | 3 17 | 2 20 | | n.a. |
| S 11 | 17 5 | 20 44 | 3 24 | 10 43 | 2 26 | 1 48 | 2 0 | 24 39 | 1 53 | 7 31 | 1 17 | 18 3 | 1 49 | 23 35 | 0 28 | 23 0 | 0 25 | 18 35 | 3 48 | 2 47 | 3 18 | 2 16 | | n.a. |
| S 12 | 17 23 | 15 23 | 2 22 | 10 23 | 2 34 | 2 16 | 2 0 | 24 39 | 1 55 | 7 27 | 1 17 | 18 2 | 1 49 | 23 35 | 0 28 | 23 0 | 0 25 | 18 35 | 3 48 | 2 47 | 3 19 | 2 13 | | n.a. |
| M13 | 17 40 | 9 8 | 1 11 | 10 10 | 2 40 | 2 45 | 2 0 | 24 40 | 1 58 | 7 24 | 1 17 | 18 1 | 1 49 | 23 35 | 0 28 | 23 0 | 0 25 | 18 35 | 3 48 | 2 46 | 3 21 | 2 9 | | n.a. |
| T 14 | 17 56 | 2 19 | 0s 5 | 10 2 | 2 44 | 3 13 | 2 0 | 24 40 | 2 1 | 7 21 | 1 18 | 18 0 | 1 49 | 23 35 | 0 28 | 23 0 | 0 25 | 18 35 | 3 48 | 2 46 | 3 22 | 2 6 | | n.a. |
| W15 | 18 13 | 4s40 | 1 22 | 9 59 | 2 46 | 3 42 | 2 0 | 24 41 | 2 3 | 7 18 | 1 18 | 17 59 | 1 49 | 23 35 | 0 28 | 23 0 | 0 25 | 18 35 | 3 48 | 2 47 | 3 23 | 2 2 | | n.a. |
| T 16 | 18 29 | 11 28 | 2 34 | 10 1 | 2 47 | 4 11 | 2 0 | 24 41 | 2 6 | 7 15 | 1 18 | 17 58 | 1 49 | 23 35 | 0 29 | 23 0 | 0 25 | 18 35 | 3 48 | 2 48 | 3 24 | 1 59 | | n.a. |
| F 17 | 18 45 | 17 39 | 3 35 | 10 8 | 2 46 | 4 39 | 2 0 | 24 41 | 2 9 | 7 12 | 1 18 | 17 57 | 1 49 | 23 36 | 0 29 | 23 0 | 0 25 | 18 35 | 3 48 | 2 50 | 3 26 | 1 55 | | n.a. |
| S 18 | 19 0 | 22 46 | 4 22 | 10 18 | 2 44 | 5 8 | 2 0 | 24 40 | 2 11 | 7 9 | 1 19 | 17 56 | 1 49 | 23 36 | 0 29 | 23 0 | 0 25 | 18 34 | 3 48 | 2 54 | 3 27 | 1 52 | | n.a. |
| S 19 | 19 15 | 26 27 | 4 52 | 10 32 | 2 41 | 5 36 | 2 0 | 24 40 | 2 14 | 7 6 | 1 19 | 17 55 | 1 49 | 23 36 | 0 29 | 23 0 | 0 25 | 18 34 | 3 48 | 2 58 | 3 28 | 1 48 | | n.a. |
| M20 | 19 30 | 28 25 | 5 3 | 10 49 | 2 37 | 6 5 | 1 59 | 24 39 | 2 16 | 7 3 | 1 19 | 17 53 | 1 48 | 23 36 | 0 29 | 23 0 | 0 25 | 18 34 | 3 48 | 3 2 | 3 30 | 1 45 | | n.a. |
| T 21 | 19 44 | 28 35 | 4 57 | 11 8 | 2 33 | 6 33 | 1 59 | 24 39 | 2 19 | 7 0 | 1 19 | 17 52 | 1 48 | 23 36 | 0 29 | 23 0 | 0 25 | 18 34 | 3 48 | 3 7 | 3 31 | 1 41 | | n.a. |
| W22 | 19 58 | 27 6 | 4 35 | 11 30 | 2 28 | 7 1 | 1 58 | 24 38 | 2 21 | 6 58 | 1 19 | 17 51 | 1 48 | 23 36 | 0 29 | 23 1 | 0 25 | 18 34 | 3 48 | 3 10 | 3 32 | 1 38 | | n.a. |
| T 23 | 20 12 | 24 14 | 3 59 | 11 54 | 2 22 | 7 29 | 1 58 | 24 37 | 2 24 | 6 55 | 1 20 | 17 50 | 1 48 | 23 37 | 0 29 | 23 1 | 0 25 | 18 34 | 3 48 | 3 13 | 3 33 | 1 35 | | n.a. |
| F 24 | 20 25 | 20 19 | 3 13 | 12 19 | 2 16 | 7 57 | 1 57 | 24 36 | 2 26 | 6 52 | 1 20 | 17 49 | 1 48 | 23 37 | 0 29 | 23 1 | 0 25 | 18 34 | 3 48 | 3 14 | 3 35 | 1 31 | | n.a. |
| S 25 | 20 38 | 15 38 | 2 20 | 12 45 | 2 9 | 8 25 | 1 56 | 24 34 | 2 28 | 6 50 | 1 20 | 17 48 | 1 48 | 23 37 | 0 29 | 23 1 | 0 24 | 18 34 | 3 48 | 3 15 | 3 36 | 1 28 | | n.a. |
| S 26 | 20 51 | 10 27 | 1 21 | 13 12 | 2 2 | 8 52 | 1 55 | 24 33 | 2 30 | 6 47 | 1 20 | 17 47 | 1 48 | 23 37 | 0 29 | 23 1 | 0 24 | 18 33 | 3 48 | 3 15 | 3 37 | 1 24 | | n.a. |
| M27 | 21 3 | 4 56 | 0 19 | 13 41 | 1 55 | 9 20 | 1 54 | 24 31 | 2 32 | 6 45 | 1 21 | 17 46 | 1 48 | 23 37 | 0 29 | 23 1 | 0 24 | 18 33 | 3 48 | 3 15 | 3 38 | 1 21 | | n.a. |
| T 28 | 21 14 | 0n44 | 0n44 | 14 10 | 1 47 | 9 47 | 1 53 | 24 29 | 2 35 | 6 43 | 1 21 | 17 45 | 1 48 | 23 38 | 0 29 | 23 1 | 0 24 | 18 33 | 3 48 | 3 15 | 3 40 | 1 17 | | n.a. |
| W29 | 21 26 | 6 24 | 1 45 | 14 39 | 1 40 | 10 14 | 1 52 | 24 27 | 2 37 | 6 40 | 1 21 | 17 44 | 1 47 | 23 38 | 0 29 | 23 1 | 0 24 | 18 33 | 3 47 | 3 16 | 3 41 | 1 14 | | n.a. |
| T 30 | 21s36 | 11n55 | 2n42 | 15s 8 | 1n32 | 10s41 | 1n51 | 24n25 | 2n38 | 6n38 | 1n21 | 17n43 | 1s47 | 23n38 | 0n29 | 23n 1 | 0s24 | 18n33 | 3s47 | 3s17 | 3s42 | 1s10 | | n.a. |

Julian Day Number = 1699447.5, Delta T = 03h06m20s
Ecliptic obliquity = 23°42'18, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°53'40, Lahiri = - 4°46'40 Julian Calendar 1 Nov. 61 BCE == Greg. Calendar 30 Oct. 061 BCE

The year -60 astronomical counting style corresponds to year 061 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 61 BCE
# geocentric

## DECEMBER 61 BCE (-60) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 4 29 29 | 7♐21'40 | 6♉14 | 16♏36 | 3♏33 | 7°R11 | 16♍37 | 25°R51 | 12°R 0 | 8°R29 | 10°R42 | 21°R40 | 20♓42 | 26♓ 7 | n.a. | F 1 |
| S 2 | 4 33 25 | 8°22'54 | 18°41 | 17°55 | 4°47 | 6♊47 | 16°43 | 25♉47 | 11♋58 | 8♋28 | 10♊41 | 21♓30 | 20°39 | 26°14 | n.a. | S 2 |
| S 3 | 4 37 22 | 9°24'08 | 1♊25 | 19°15 | 6° 1 | 6°23 | 16°49 | 25°42 | 11°56 | 8°26 | 10°40 | 21°18 | 20°36 | 26°21 | n.a. | S 3 |
| M 4 | 4 41 19 | 10°25'22 | 14°25 | 20°36 | 7°15 | 6° 0 | 16°55 | 25°37 | 11°54 | 8°25 | 10°38 | 21° 5 | 20°33 | 26°27 | n.a. | M 4 |
| T 5 | 4 45 15 | 11°26'36 | 27°41 | 21°58 | 8°29 | 5°36 | 17° 0 | 25°32 | 11°52 | 8°23 | 10°37 | 20°51 | 20°29 | 26°34 | n.a. | T 5 |
| W 6 | 4 49 12 | 12°27'50 | 11♋ 8 | 23°21 | 9°43 | 5°13 | 17° 6 | 25°28 | 11°50 | 8°22 | 10°36 | 20°39 | 20°26 | 26°40 | n.a. | W 6 |
| T 7 | 4 53 8 | 13°29'04 | 24°47 | 24°45 | 10°57 | 4°51 | 17°11 | 25°23 | 11°48 | 8°21 | 10°35 | 20°30 | 20°23 | 26°47 | n.a. | T 7 |
| F 8 | 4 57 5 | 14°30'18 | 8♌33 | 26°10 | 12°11 | 4°28 | 17°16 | 25°19 | 11°46 | 8°19 | 10°33 | 20°23 | 20°20 | 26°54 | n.a. | F 8 |
| S 9 | 5 1 1 | 15°31'31 | 22°25 | 27°36 | 13°25 | 4° 6 | 17°21 | 25°14 | 11°43 | 8°17 | 10°32 | 20°19 | 20°17 | 27° 0 | n.a. | S 9 |
| S 10 | 5 4 58 | 16°32'45 | 6♍23 | 29° 2 | 14°39 | 3°45 | 17°26 | 25°10 | 11°41 | 8°16 | 10°31 | 20°18 | 20°14 | 27° 7 | n.a. | S 10 |
| M11 | 5 8 55 | 17°33'59 | 20°25 | 0♐30 | 15°54 | 3°24 | 17°31 | 25° 5 | 11°39 | 8°14 | 10°30 | 20°18 | 20°10 | 27°14 | n.a. | M11 |
| T 12 | 5 12 51 | 18°35'12 | 4♎31 | 1°57 | 17° 8 | 3° 3 | 17°35 | 25° 1 | 11°36 | 8°13 | 10°28 | 20°17 | 20° 7 | 27°20 | n.a. | T 12 |
| W13 | 5 16 48 | 19°36'26 | 18°41 | 3°26 | 18°22 | 2°43 | 17°40 | 24°57 | 11°34 | 8°11 | 10°27 | 20°15 | 20° 4 | 27°27 | n.a. | W13 |
| T 14 | 5 20 44 | 20°37'39 | 2♏52 | 4°55 | 19°36 | 2°24 | 17°44 | 24°52 | 11°32 | 8°10 | 10°26 | 20°11 | 20° 1 | 27°34 | n.a. | T 14 |
| F 15 | 5 24 41 | 21°38'52 | 17° 2 | 6°24 | 20°51 | 2° 5 | 17°48 | 24°48 | 11°29 | 8° 8 | 10°25 | 20° 4 | 19°58 | 27°40 | n.a. | F 15 |
| S 16 | 5 28 37 | 22°40'05 | 1♐ 7 | 7°54 | 22° 5 | 1°47 | 17°52 | 24°44 | 11°27 | 8° 6 | 10°24 | 19°53 | 19°54 | 27°47 | n.a. | S 16 |
| S 17 | 5 32 34 | 23°41'17 | 15° 3 | 9°25 | 23°19 | 1°29 | 17°55 | 24°40 | 11°24 | 8° 5 | 10°22 | 19°41 | 19°51 | 27°54 | n.a. | S 17 |
| M18 | 5 36 30 | 24°42'29 | 28°44 | 10°56 | 24°34 | 1°12 | 17°59 | 24°36 | 11°22 | 8° 3 | 10°21 | 19°27 | 19°48 | 28° 0 | n.a. | M18 |
| T 19 | 5 40 27 | 25°43'40 | 12♑ 7 | 12°28 | 25°48 | 0°56 | 18° 2 | 24°32 | 11°19 | 8° 2 | 10°20 | 19°14 | 19°45 | 28° 7 | n.a. | T 19 |
| W20 | 5 44 24 | 26°44'50 | 25°10 | 14° 0 | 27° 2 | 0°41 | 18° 5 | 24°28 | 11°17 | 8° 0 | 10°19 | 19° 3 | 19°42 | 28°14 | n.a. | W20 |
| T 21 | 5 48 20 | 27°45'59 | 7♒53 | 15°33 | 28°17 | 0°26 | 18° 8 | 24°24 | 11°14 | 7°58 | 10°18 | 18°54 | 19°39 | 28°20 | n.a. | T 21 |
| F 22 | 5 52 17 | 28°47'08 | 20°17 | 17° 6 | 29°31 | 0°12 | 18°11 | 24°21 | 11°12 | 7°57 | 10°16 | 18°49 | 19°35 | 28°27 | n.a. | F 22 |
| S 23 | 5 56 13 | 29°48'15 | 2♓24 | 18°40 | 0♐46 | 29♉59 | 18°13 | 24°17 | 11° 9 | 7°55 | 10°15 | 18°46 | 19°32 | 28°33 | n.a. | S 23 |
| S 24 | 6 0 10 | 0♑49'21 | 14°20 | 20°15 | 2° 0 | 29°47 | 18°16 | 24°14 | 11° 7 | 7°53 | 10°14 | 18°D44 | 19°29 | 28°40 | n.a. | S 24 |
| M25 | 6 4 6 | 1°50'26 | 26° 9 | 21°50 | 3°14 | 29°35 | 18°18 | 24°10 | 11° 4 | 7°52 | 10°13 | 18°R44 | 19°26 | 28°47 | n.a. | M25 |
| T 26 | 6 8 3 | 2°51'30 | 7♈56 | 23°26 | 4°29 | 29°25 | 18°20 | 24° 7 | 11° 2 | 7°50 | 10°12 | 18°44 | 19°23 | 28°53 | n.a. | T 26 |
| W27 | 6 11 59 | 3°52'32 | 19°48 | 25° 2 | 5°43 | 29°15 | 18°22 | 24° 4 | 10°59 | 7°48 | 10°11 | 18°43 | 19°20 | 29° 0 | n.a. | W27 |
| T 28 | 6 15 56 | 4°53'34 | 1♉50 | 26°39 | 6°58 | 29° 6 | 18°23 | 24° 1 | 10°57 | 7°47 | 10°10 | 18°40 | 19°16 | 29° 7 | n.a. | T 28 |
| F 29 | 6 19 53 | 5°54'34 | 14° 6 | 28°16 | 8°12 | 28°58 | 18°25 | 23°58 | 10°54 | 7°45 | 10° 9 | 18°34 | 19°13 | 29°13 | n.a. | F 29 |
| S 30 | 6 23 49 | 6°55'33 | 26°41 | 29°54 | 9°27 | 28°50 | 18°26 | 23°55 | 10°51 | 7°43 | 10° 7 | 18°26 | 19°10 | 29°20 | n.a. | S 30 |
| S 31 | 6 27 46 | 7♑56'30 | 9♊36 | 1♑33 | 10♐41 | 28♉44 | 18♍27 | 23♉52 | 10♋49 | 7♋41 | 10♊ 6 | 18♓15 | 19♓ 7 | 29♓27 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 21s47 | 17n 4 | 3n32 | 15s38 | 1n24 | 11s 7 | 1n49 | 24n23 | 2n40 | 6n36 | 1n22 | 17n42 | 1s47 | 23n38 | 0n29 | 23n 1 | 0s24 | 18n33 | 3s47 | 3s20 | 3s43 | 1s 7 | | n.a. |
| S 2 | 21 57 | 21 38 | 4 13 | 16 8 | 1 17 | 11 34 | 1 48 | 24 21 | 2 42 | 6 33 | 1 22 | 17 41 | 1 47 | 23 38 | 0 29 | 23 1 | 0 24 | 18 33 | 3 47 | 3 24 | 3 45 | 1 3 | | n.a. |
| S 3 | 22 6 | 25 17 | 4 43 | 16 38 | 1 9 | 12 0 | 1 46 | 24 18 | 2 44 | 6 31 | 1 22 | 17 40 | 1 47 | 23 39 | 0 29 | 23 2 | 0 24 | 18 33 | 3 47 | 3 29 | 3 46 | 1 0 | | n.a. |
| M 4 | 22 15 | 27 43 | 4 58 | 17 7 | 1 1 | 12 26 | 1 45 | 24 16 | 2 45 | 6 29 | 1 23 | 17 39 | 1 47 | 23 39 | 0 29 | 23 2 | 0 24 | 18 32 | 3 47 | 3 34 | 3 47 | 0 56 | | n.a. |
| T 5 | 22 24 | 28 39 | 4 58 | 17 36 | 0 53 | 12 51 | 1 43 | 24 13 | 2 47 | 6 27 | 1 23 | 17 38 | 1 47 | 23 39 | 0 29 | 23 2 | 0 24 | 18 32 | 3 47 | 3 40 | 3 49 | 0 53 | | n.a. |
| W 6 | 22 32 | 27 54 | 4 42 | 18 5 | 0 45 | 13 17 | 1 42 | 24 10 | 2 48 | 6 25 | 1 23 | 17 37 | 1 47 | 23 39 | 0 29 | 23 2 | 0 24 | 18 32 | 3 47 | 3 45 | 3 50 | 0 49 | | n.a. |
| T 7 | 22 40 | 25 29 | 4 9 | 18 34 | 0 37 | 13 42 | 1 40 | 24 7 | 2 50 | 6 24 | 1 23 | 17 36 | 1 46 | 23 39 | 0 29 | 23 2 | 0 24 | 18 32 | 3 47 | 3 48 | 3 51 | 0 46 | | n.a. |
| F 8 | 22 48 | 21 34 | 3 21 | 19 2 | 0 30 | 14 6 | 1 38 | 24 4 | 2 51 | 6 22 | 1 24 | 17 35 | 1 46 | 23 40 | 0 29 | 23 2 | 0 24 | 18 32 | 3 47 | 3 51 | 3 52 | 0 42 | | n.a. |
| S 9 | 22 55 | 16 25 | 2 22 | 19 29 | 0 22 | 14 31 | 1 36 | 24 1 | 2 52 | 6 20 | 1 24 | 17 34 | 1 46 | 23 40 | 0 29 | 23 2 | 0 24 | 18 32 | 3 47 | 3 53 | 3 54 | 0 39 | | n.a. |
| S 10 | 23 1 | 10 24 | 1 13 | 19 56 | 0 15 | 14 55 | 1 34 | 23 58 | 2 53 | 6 18 | 1 24 | 17 33 | 1 46 | 23 40 | 0 29 | 23 2 | 0 24 | 18 32 | 3 47 | 3 53 | 3 55 | 0 35 | | n.a. |
| M11 | 23 7 | 3 50 | 0s 1 | 20 22 | 0 7 | 15 18 | 1 33 | 23 55 | 2 55 | 6 17 | 1 24 | 17 32 | 1 46 | 23 40 | 0 29 | 23 2 | 0 24 | 18 32 | 3 47 | 3 53 | 3 56 | 0 32 | | n.a. |
| T 12 | 23 12 | 2s57 | 1 14 | 20 47 | 0s 0 | 15 41 | 1 31 | 23 52 | 2 56 | 6 15 | 1 25 | 17 31 | 1 46 | 23 41 | 0 29 | 23 2 | 0 24 | 18 32 | 3 47 | 3 53 | 3 57 | 0 29 | | n.a. |
| W13 | 23 18 | 9 37 | 2 24 | 21 12 | 0 8 | 16 4 | 1 28 | 23 49 | 2 56 | 6 14 | 1 25 | 17 31 | 1 45 | 23 41 | 0 29 | 23 3 | 0 24 | 18 31 | 3 47 | 3 54 | 3 59 | 0 25 | | n.a. |
| T 14 | 23 22 | 15 48 | 3 24 | 21 36 | 0 15 | 16 27 | 1 26 | 23 46 | 2 57 | 6 12 | 1 25 | 17 30 | 1 45 | 23 41 | 0 29 | 23 3 | 0 24 | 18 31 | 3 47 | 3 56 | 4 0 | 0 22 | | n.a. |
| F 15 | 23 26 | 21 8 | 4 12 | 21 58 | 0 22 | 16 49 | 1 24 | 23 43 | 2 58 | 6 11 | 1 26 | 17 29 | 1 45 | 23 41 | 0 29 | 23 3 | 0 24 | 18 31 | 3 46 | 3 59 | 4 1 | 0 18 | | n.a. |
| S 16 | 23 30 | 25 15 | 4 44 | 22 20 | 0 28 | 17 10 | 1 22 | 23 40 | 2 59 | 6 10 | 1 26 | 17 28 | 1 45 | 23 41 | 0 29 | 23 3 | 0 24 | 18 31 | 3 46 | 4 3 | 4 2 | 0 15 | | n.a. |
| S 17 | 23 33 | 27 48 | 4 59 | 22 41 | 0 35 | 17 31 | 1 20 | 23 37 | 2 59 | 6 9 | 1 26 | 17 27 | 1 45 | 23 42 | 0 29 | 23 3 | 0 24 | 18 31 | 3 46 | 4 8 | 4 4 | 0 11 | | n.a. |
| M18 | 23 36 | 28 38 | 4 56 | 23 1 | 0 42 | 17 52 | 1 18 | 23 34 | 3 0 | 6 8 | 1 26 | 17 27 | 1 44 | 23 42 | 0 29 | 23 3 | 0 24 | 18 31 | 3 46 | 4 13 | 4 5 | 0 8 | | n.a. |
| T 19 | 23 38 | 27 44 | 4 37 | 23 20 | 0 48 | 18 12 | 1 15 | 23 31 | 3 0 | 6 7 | 1 27 | 17 26 | 1 44 | 23 42 | 0 29 | 23 3 | 0 24 | 18 31 | 3 46 | 4 18 | 4 6 | 0 4 | | n.a. |
| W20 | 23 40 | 25 19 | 4 3 | 23 38 | 0 54 | 18 32 | 1 13 | 23 28 | 3 1 | 6 6 | 1 27 | 17 25 | 1 44 | 23 42 | 0 29 | 23 3 | 0 24 | 18 31 | 3 46 | 4 23 | 4 7 | 0 1 | | n.a. |
| T 21 | 23 41 | 21 41 | 3 18 | 23 54 | 1 0 | 18 51 | 1 10 | 23 25 | 3 1 | 6 5 | 1 27 | 17 24 | 1 44 | 23 43 | 0 29 | 23 3 | 0 24 | 18 31 | 3 46 | 4 26 | 4 9 | 0n 3 | | n.a. |
| F 22 | 23 42 | 17 10 | 2 25 | 24 10 | 1 6 | 19 10 | 1 8 | 23 22 | 3 1 | 6 4 | 1 28 | 17 24 | 1 44 | 23 43 | 0 29 | 23 4 | 0 24 | 18 31 | 3 46 | 4 28 | 4 10 | 0 6 | | n.a. |
| S 23 | 23 42 | 12 4 | 1 26 | 24 24 | 1 11 | 19 28 | 1 6 | 23 19 | 3 1 | 6 3 | 1 28 | 17 23 | 1 43 | 23 43 | 0 29 | 23 4 | 0 24 | 18 31 | 3 46 | 4 30 | 4 11 | 0 10 | | n.a. |
| S 24 | 23 42 | 6 36 | 0 23 | 24 37 | 1 17 | 19 46 | 1 3 | 23 17 | 3 2 | 6 3 | 1 28 | 17 22 | 1 43 | 23 43 | 0 29 | 23 4 | 0 24 | 18 30 | 3 46 | 4 30 | 4 12 | 0 13 | | n.a. |
| M25 | 23 41 | 0 57 | 0n39 | 24 48 | 1 22 | 20 3 | 1 0 | 23 14 | 3 2 | 6 2 | 1 29 | 17 22 | 1 43 | 23 44 | 0 29 | 23 4 | 0 24 | 18 30 | 3 46 | 4 30 | 4 14 | 0 17 | | n.a. |
| T 26 | 23 40 | 4n43 | 1 40 | 24 59 | 1 26 | 20 19 | 0 58 | 23 12 | 3 2 | 6 1 | 1 29 | 17 21 | 1 43 | 23 44 | 0 29 | 23 4 | 0 24 | 18 30 | 3 46 | 4 30 | 4 15 | 0 20 | | n.a. |
| W27 | 23 39 | 10 15 | 2 37 | 25 8 | 1 31 | 20 35 | 0 55 | 23 10 | 3 2 | 6 1 | 1 29 | 17 20 | 1 43 | 23 44 | 0 29 | 23 4 | 0 24 | 18 30 | 3 45 | 4 31 | 4 16 | 0 24 | | n.a. |
| T 28 | 23 37 | 15 29 | 3 28 | 25 15 | 1 35 | 20 51 | 0 53 | 23 8 | 3 2 | 6 1 | 1 29 | 17 20 | 1 42 | 23 44 | 0 29 | 23 4 | 0 24 | 18 30 | 3 45 | 4 32 | 4 17 | 0 27 | | n.a. |
| F 29 | 23 34 | 20 13 | 4 10 | 25 21 | 1 39 | 21 6 | 0 50 | 23 6 | 3 2 | 6 0 | 1 30 | 17 19 | 1 42 | 23 44 | 0 29 | 23 4 | 0 24 | 18 30 | 3 45 | 4 34 | 4 19 | 0 30 | | n.a. |
| S 30 | 23 31 | 24 11 | 4 41 | 25 25 | 1 43 | 21 20 | 0 47 | 23 4 | 3 1 | 6 0 | 1 30 | 17 19 | 1 42 | 23 45 | 0 29 | 23 4 | 0 24 | 18 30 | 3 45 | 4 38 | 4 20 | 0 34 | | n.a. |
| S 31 | 23s28 | 27n 3 | 4n59 | 25s28 | 1s47 | 21s33 | 0n45 | 23n 2 | 3n 1 | 6n 0 | 1n30 | 17n18 | 1s42 | 23n45 | 0n29 | 23n 5 | 0s24 | 18n30 | 3s45 | 4s42 | 4s21 | 0n37 | | n.a. |

Julian Day Number = 1699477.5, Delta T = 03h06m19s
Ecliptic obliquity = 23°42'17, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°53'36, Lahiri = - 4°46'35 Julian Calendar 1 Dec. 61 BCE == Greg. Calendar 29 Nov. 061 BCE

The year -60 astronomical counting style corresponds to year 061 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 60 BCE
# geocentric

## JANUARY 60 BCE (-59) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 6 31 42 | 8♑57'27 | 22♊52 | 3♑13 | 11♐56 | 28°R38 | 18♍28 | 23°R49 | 10°R46 | 7°R40 | 10°R 5 | 18°R 3 | 19♓ 4 | 29♓33 | n.a. | M 1 |
| T 2 | 6 35 39 | 9°58'22 | 6♋28 | 4°53 | 13°10 | 28♉33 | 18°29 | 23♉46 | 10♋43 | 7♋38 | 10♊ 4 | 17♓51 | 19° 0 | 29°40 | n.a. | T 2 |
| W 3 | 6 39 35 | 10°59'16 | 20°21 | 6°34 | 14°24 | 28°28 | 18°29 | 23°44 | 10°41 | 7°36 | 10° 3 | 17°40 | 18°57 | 29°47 | n.a. | W 3 |
| T 4 | 6 43 32 | 12° 0'09 | 4♌26 | 8°15 | 15°39 | 28°25 | 18°29 | 23°41 | 10°38 | 7°35 | 10° 2 | 17°32 | 18°54 | 29°53 | n.a. | T 4 |
| F 5 | 6 47 29 | 13° 1'00 | 18°39 | 9°58 | 16°53 | 28°22 | 18°R30 | 23°39 | 10°36 | 7°33 | 10° 1 | 17°26 | 18°51 | 29°59 | n.a. | F 5 |
| S 6 | 6 51 25 | 14° 1'51 | 2♍56 | 11°41 | 18° 8 | 28°21 | 18°29 | 23°37 | 10°33 | 7°31 | 10° 0 | 17°23 | 18°48 | 0♈ 7 | n.a. | S 6 |
| S 7 | 6 55 22 | 15° 2'40 | 17°11 | 13°25 | 19°22 | 28°19 | 18°29 | 23°34 | 10°30 | 7°30 | 9°59 | 17°D22 | 18°45 | 0°13 | n.a. | S 7 |
| M 8 | 6 59 18 | 16° 3'28 | 1♎23 | 15° 9 | 20°37 | 28°D19 | 18°29 | 23°32 | 10°28 | 7°28 | 9°58 | 17°22 | 18°41 | 0°20 | n.a. | M 8 |
| T 9 | 7 3 15 | 17° 4'15 | 15°30 | 16°55 | 21°51 | 28°19 | 18°28 | 23°30 | 10°25 | 7°26 | 9°57 | 17°R23 | 18°38 | 0°27 | n.a. | T 9 |
| W10 | 7 7 11 | 18° 5'01 | 29°31 | 18°41 | 23° 6 | 28°21 | 18°27 | 23°29 | 10°23 | 7°25 | 9°56 | 17°22 | 18°35 | 0°33 | n.a. | W10 |
| T 11 | 7 11 8 | 19° 5'46 | 13♏26 | 20°28 | 24°20 | 28°22 | 18°26 | 23°27 | 10°20 | 7°23 | 9°55 | 17°20 | 18°32 | 0°40 | n.a. | T 11 |
| F 12 | 7 15 4 | 20° 6'30 | 27°13 | 22°15 | 25°35 | 28°25 | 18°25 | 23°25 | 10°17 | 7°21 | 9°54 | 17°15 | 18°29 | 0°46 | n.a. | F 12 |
| S 13 | 7 19 1 | 21° 7'13 | 10♐52 | 24° 4 | 26°49 | 28°28 | 18°24 | 23°24 | 10°15 | 7°20 | 9°54 | 17° 7 | 18°26 | 0°53 | n.a. | S 13 |
| S 14 | 7 22 58 | 22° 7'54 | 24°20 | 25°53 | 28° 4 | 28°32 | 18°22 | 23°22 | 10°12 | 7°18 | 9°53 | 16°58 | 18°22 | 1° 0 | n.a. | S 14 |
| M15 | 7 26 54 | 23° 8'34 | 7♑35 | 27°42 | 29°18 | 28°37 | 18°20 | 23°21 | 10°10 | 7°16 | 9°52 | 16°48 | 18°19 | 1° 6 | n.a. | M15 |
| T 16 | 7 30 51 | 24° 9'12 | 20°37 | 29°32 | 0♑33 | 28°42 | 18°18 | 23°20 | 10° 7 | 7°15 | 9°51 | 16°38 | 18°16 | 1°13 | n.a. | T 16 |
| W17 | 7 34 47 | 25° 9'49 | 3♒24 | 1♒23 | 1°47 | 28°48 | 18°16 | 23°19 | 10° 5 | 7°13 | 9°50 | 16°30 | 18°13 | 1°20 | n.a. | W17 |
| T 18 | 7 38 44 | 26°10'24 | 15°55 | 3°14 | 3° 2 | 28°55 | 18°14 | 23°18 | 10° 2 | 7°12 | 9°49 | 16°23 | 18°10 | 1°26 | n.a. | T 18 |
| F 19 | 7 42 40 | 27°10'57 | 28°12 | 5° 5 | 4°16 | 29° 3 | 18°11 | 23°17 | 10° 0 | 7°10 | 9°49 | 16°19 | 18° 6 | 1°33 | n.a. | F 19 |
| S 20 | 7 46 37 | 28°11'29 | 10♓16 | 6°56 | 5°31 | 29°11 | 18° 9 | 23°16 | 9°57 | 7° 9 | 9°48 | 16°17 | 18° 3 | 1°40 | n.a. | S 20 |
| S 21 | 7 50 33 | 29°11'58 | 22°10 | 8°47 | 6°45 | 29°19 | 18° 6 | 23°15 | 9°55 | 7° 7 | 9°47 | 16°D17 | 18° 0 | 1°46 | n.a. | S 21 |
| M22 | 7 54 30 | 0♒12'26 | 3♈59 | 10°38 | 8° 0 | 29°28 | 18° 3 | 23°15 | 9°52 | 7° 5 | 9°46 | 16°18 | 17°57 | 1°53 | n.a. | M22 |
| T 23 | 7 58 27 | 1°12'51 | 15°46 | 12°29 | 9°14 | 29°38 | 17°59 | 23°15 | 9°50 | 7° 4 | 9°46 | 16°20 | 17°54 | 2° 0 | n.a. | T 23 |
| W24 | 8 2 23 | 2°13'15 | 27°38 | 14°18 | 10°29 | 29°49 | 17°56 | 23°14 | 9°48 | 7° 2 | 9°45 | 16°R21 | 17°51 | 2° 6 | n.a. | W24 |
| T 25 | 8 6 20 | 3°13'36 | 9♉39 | 16° 6 | 11°43 | 29°59 | 17°52 | 23°14 | 9°45 | 7° 1 | 9°44 | 16°21 | 17°47 | 2°13 | n.a. | T 25 |
| F 26 | 8 10 16 | 4°13'55 | 21°54 | 17°53 | 12°58 | 0♊11 | 17°49 | 23°D14 | 9°43 | 6°59 | 9°44 | 16°19 | 17°44 | 2°20 | n.a. | F 26 |
| S 27 | 8 14 13 | 5°14'13 | 4♊29 | 19°38 | 14°12 | 0°23 | 17°45 | 23°14 | 9°41 | 6°58 | 9°43 | 16°15 | 17°41 | 2°26 | n.a. | S 27 |
| S 28 | 8 18 9 | 6°14'28 | 17°26 | 21°20 | 15°26 | 0°36 | 17°40 | 23°14 | 9°38 | 6°57 | 9°42 | 16°10 | 17°38 | 2°33 | n.a. | S 28 |
| M29 | 8 22 6 | 7°14'41 | 0♋47 | 22°59 | 16°41 | 0°49 | 17°36 | 23°15 | 9°36 | 6°55 | 9°42 | 16° 4 | 17°35 | 2°40 | n.a. | M29 |
| T 30 | 8 26 2 | 8°14'53 | 14°34 | 24°35 | 17°55 | 1° 3 | 17°32 | 23°15 | 9°34 | 6°54 | 9°41 | 15°57 | 17°32 | 2°46 | n.a. | T 30 |
| W31 | 8 29 59 | 9♒15'02 | 28♋43 | 26♒ 7 | 19♑10 | 1♊17 | 17♍27 | 23♉15 | 9♋32 | 6♋52 | 9♊41 | 15♓52 | 17♓28 | 2♈53 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| M 1 | 23 s24 | 28n31 | 5n 1 | 25 s30 | 1 s50 | 21 s46 | 0n42 | 23n 1 | 3n 1 | 6n 0 | 1n31 | 17n18 | 1 s41 | 23n45 | 0n29 | 23n 5 | 0 s24 | 18n30 | 3 s45 | 4 s46 | 4 s23 | 0n41 | | | n.a. |
| T 2 | 23 19 | 28 19 | 4 47 | 25 29 | 1 52 | 21 59 | 0 39 | 22 59 | 3 1 | 6 0 | 1 31 | 17 17 | 1 41 | 23 45 | 0 29 | 23 5 | 0 24 | 18 30 | 3 45 | 4 51 | 4 24 | 0 44 | | | n.a. |
| W 3 | 23 15 | 26 21 | 4 15 | 25 27 | 1 55 | 22 11 | 0 37 | 22 58 | 3 0 | 6 0 | 1 31 | 17 17 | 1 41 | 23 46 | 0 29 | 23 5 | 0 24 | 18 30 | 3 45 | 4 55 | 4 25 | 0 48 | | | n.a. |
| T 4 | 23 9 | 22 43 | 3 28 | 25 23 | 1 57 | 22 22 | 0 34 | 22 57 | 3 0 | 6 0 | 1 32 | 17 17 | 1 41 | 23 46 | 0 29 | 23 5 | 0 24 | 18 30 | 3 45 | 4 59 | 4 26 | 0 51 | | | n.a. |
| F 5 | 23 4 | 17 43 | 2 27 | 25 18 | 1 59 | 22 32 | 0 31 | 22 56 | 3 0 | 6 0 | 1 32 | 17 16 | 1 40 | 23 46 | 0 30 | 23 5 | 0 24 | 18 30 | 3 45 | 5 1 | 4 28 | 0 55 | | | n.a. |
| S 6 | 22 57 | 11 44 | 1 16 | 25 11 | 2 0 | 22 42 | 0 28 | 22 55 | 2 59 | 6 1 | 1 32 | 17 16 | 1 40 | 23 46 | 0 30 | 23 5 | 0 24 | 18 30 | 3 44 | 5 2 | 4 29 | 0 58 | | | n.a. |
| S 7 | 22 51 | 5 8 | 0 1 | 25 2 | 2 1 | 22 51 | 0 26 | 22 54 | 2 59 | 6 1 | 1 32 | 17 16 | 1 40 | 23 46 | 0 30 | 23 5 | 0 24 | 18 30 | 3 44 | 5 3 | 4 30 | 1 2 | | | n.a. |
| M 8 | 22 44 | 1 s41 | 1 s14 | 24 51 | 2 2 | 22 59 | 0 23 | 22 54 | 2 58 | 6 1 | 1 33 | 17 15 | 1 40 | 23 47 | 0 30 | 23 5 | 0 24 | 18 30 | 3 44 | 5 3 | 4 31 | 1 5 | | | n.a. |
| T 9 | 22 36 | 8 23 | 2 24 | 24 38 | 2 2 | 23 7 | 0 20 | 22 54 | 2 58 | 6 2 | 1 33 | 17 15 | 1 39 | 23 47 | 0 30 | 23 6 | 0 24 | 18 30 | 3 44 | 5 2 | 4 33 | 1 9 | | | n.a. |
| W10 | 22 28 | 14 37 | 3 25 | 24 23 | 2 2 | 23 14 | 0 17 | 22 53 | 2 57 | 6 3 | 1 33 | 17 15 | 1 39 | 23 47 | 0 30 | 23 6 | 0 24 | 18 30 | 3 44 | 5 3 | 4 34 | 1 12 | | | n.a. |
| T 11 | 22 20 | 20 4 | 4 14 | 24 7 | 2 1 | 23 20 | 0 15 | 22 53 | 2 57 | 6 3 | 1 34 | 17 15 | 1 39 | 23 47 | 0 30 | 23 6 | 0 24 | 18 30 | 3 44 | 5 4 | 4 35 | 1 16 | | | n.a. |
| F 12 | 22 11 | 24 24 | 4 47 | 23 48 | 1 59 | 23 26 | 0 12 | 22 53 | 2 56 | 6 4 | 1 34 | 17 15 | 1 39 | 23 47 | 0 30 | 23 6 | 0 24 | 18 30 | 3 44 | 5 6 | 4 36 | 1 19 | | | n.a. |
| S 13 | 22 2 | 27 19 | 5 3 | 23 28 | 1 58 | 23 31 | 0 9 | 22 53 | 2 56 | 6 5 | 1 34 | 17 14 | 1 38 | 23 48 | 0 30 | 23 6 | 0 24 | 18 30 | 3 44 | 5 9 | 4 38 | 1 22 | | | n.a. |
| S 14 | 21 52 | 28 37 | 5 3 | 23 5 | 1 55 | 23 35 | 0 7 | 22 54 | 2 55 | 6 6 | 1 34 | 17 14 | 1 38 | 23 48 | 0 30 | 23 6 | 0 24 | 18 30 | 3 44 | 5 12 | 4 39 | 1 26 | | | n.a. |
| M15 | 21 42 | 28 14 | 4 46 | 22 41 | 1 52 | 23 38 | 0 4 | 22 54 | 2 54 | 6 7 | 1 35 | 17 14 | 1 38 | 23 48 | 0 30 | 23 6 | 0 24 | 18 30 | 3 43 | 5 16 | 4 40 | 1 29 | | | n.a. |
| T 16 | 21 31 | 26 17 | 4 14 | 22 15 | 1 49 | 23 41 | 0 1 | 22 55 | 2 54 | 6 8 | 1 35 | 17 14 | 1 38 | 23 48 | 0 30 | 23 6 | 0 24 | 18 30 | 3 43 | 5 20 | 4 41 | 1 33 | | | n.a. |
| W17 | 21 20 | 23 0 | 3 30 | 21 46 | 1 45 | 23 43 | 0 s 2 | 22 55 | 2 53 | 6 9 | 1 35 | 17 14 | 1 37 | 23 48 | 0 30 | 23 6 | 0 24 | 18 30 | 3 43 | 5 23 | 4 43 | 1 36 | | | n.a. |
| T 18 | 21 9 | 18 43 | 2 36 | 21 16 | 1 40 | 23 44 | 0 4 | 22 56 | 2 52 | 6 10 | 1 36 | 17 14 | 1 37 | 23 49 | 0 30 | 23 6 | 0 24 | 18 30 | 3 43 | 5 26 | 4 44 | 1 40 | | | n.a. |
| F 19 | 20 57 | 13 44 | 1 36 | 20 44 | 1 35 | 23 45 | 0 7 | 22 57 | 2 52 | 6 11 | 1 36 | 17 14 | 1 37 | 23 49 | 0 30 | 23 7 | 0 24 | 18 30 | 3 43 | 5 27 | 4 45 | 1 43 | | | n.a. |
| S 20 | 20 45 | 8 18 | 0 32 | 20 10 | 1 29 | 23 45 | 0 9 | 22 58 | 2 51 | 6 13 | 1 36 | 17 14 | 1 37 | 23 49 | 0 30 | 23 7 | 0 24 | 18 30 | 3 43 | 5 28 | 4 46 | 1 47 | | | n.a. |
| S 21 | 20 33 | 2 39 | 0n32 | 19 35 | 1 22 | 23 44 | 0 12 | 23 0 | 2 50 | 6 14 | 1 36 | 17 14 | 1 36 | 23 49 | 0 30 | 23 7 | 0 24 | 18 30 | 3 43 | 5 28 | 4 48 | 1 50 | | | n.a. |
| M22 | 20 20 | 3n 2 | 1 34 | 18 57 | 1 14 | 23 42 | 0 15 | 23 1 | 2 49 | 6 15 | 1 37 | 17 14 | 1 36 | 23 49 | 0 30 | 23 7 | 0 24 | 18 30 | 3 43 | 5 28 | 4 49 | 1 54 | | | n.a. |
| T 23 | 20 7 | 8 37 | 2 33 | 18 19 | 1 6 | 23 40 | 0 17 | 23 2 | 2 49 | 6 17 | 1 37 | 17 15 | 1 36 | 23 50 | 0 30 | 23 7 | 0 24 | 18 30 | 3 42 | 5 27 | 4 50 | 1 57 | | | n.a. |
| W24 | 19 53 | 13 56 | 3 25 | 17 38 | 0 58 | 23 37 | 0 20 | 23 4 | 2 48 | 6 19 | 1 37 | 17 15 | 1 36 | 23 50 | 0 30 | 23 7 | 0 24 | 18 30 | 3 42 | 5 27 | 4 51 | 2 1 | | | n.a. |
| T 25 | 19 39 | 18 48 | 4 9 | 16 57 | 0 48 | 23 33 | 0 22 | 23 6 | 2 47 | 6 20 | 1 37 | 17 15 | 1 35 | 23 50 | 0 30 | 23 7 | 0 24 | 18 30 | 3 42 | 5 27 | 4 53 | 2 4 | | | n.a. |
| F 26 | 19 25 | 22 59 | 4 43 | 16 14 | 0 38 | 23 29 | 0 25 | 23 8 | 2 47 | 6 22 | 1 38 | 17 15 | 1 35 | 23 50 | 0 30 | 23 7 | 0 24 | 18 30 | 3 42 | 5 28 | 4 54 | 2 7 | | | n.a. |
| S 27 | 19 10 | 26 15 | 5 4 | 15 31 | 0 27 | 23 23 | 0 27 | 23 9 | 2 46 | 6 24 | 1 38 | 17 15 | 1 35 | 23 50 | 0 30 | 23 7 | 0 24 | 18 30 | 3 42 | 5 29 | 4 55 | 2 11 | | | n.a. |
| S 28 | 18 55 | 28 15 | 5 10 | 14 47 | 0 15 | 23 17 | 0 30 | 23 11 | 2 45 | 6 26 | 1 38 | 17 16 | 1 35 | 23 50 | 0 30 | 23 7 | 0 24 | 18 30 | 3 42 | 5 31 | 4 56 | 2 14 | | | n.a. |
| M29 | 18 40 | 28 42 | 5 0 | 14 3 | 0 3 | 23 11 | 0 32 | 23 13 | 2 44 | 6 28 | 1 38 | 17 16 | 1 34 | 23 51 | 0 30 | 23 8 | 0 24 | 18 30 | 3 42 | 5 33 | 4 58 | 2 18 | | | n.a. |
| T 30 | 18 24 | 27 25 | 4 33 | 13 19 | 0n10 | 23 3 | 0 34 | 23 16 | 2 43 | 6 30 | 1 39 | 17 16 | 1 34 | 23 51 | 0 30 | 23 8 | 0 24 | 18 30 | 3 42 | 5 36 | 4 59 | 2 21 | | | n.a. |
| W31 | 18 s 8 | 24n22 | 3n48 | 12 s35 | 0n23 | 22 s55 | 0 s37 | 23n18 | 2n43 | 6n32 | 1n39 | 17n17 | 1 s34 | 23n51 | 0n30 | 23n 8 | 0 s24 | 18n30 | 3 s41 | 5 s38 | 5 s 0 | 2n25 | | | n.a. |

Julian Day Number = 1699508.5, Delta T = 03h06m18s
Ecliptic obliquity = 23°42'17, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°53'32, Lahiri = - 4°46'31 Julian Calendar 1 Jan. 60 BCE == Greg. Calendar 30 Dec. 061 BCE

The year -59 astronomical counting style corresponds to year 060 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 60 BCE
# geocentric

## FEBRUARY 60 BCE (-59) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 33 56 | 10♒15'09 | 13♌10 | 27♒34 | 20♉24 | 1♊31 | 17°R22 | 23♉16 | 9°R30 | 6°R51 | 9°R40 | 15°R47 | 17♓25 | 2♈59 | n.a. | T 1 |
| F 2 | 8 37 52 | 11°15'14 | 27°49 | 28°56 | 21°38 | 1°46 | 17♍17 | 23°17 | 9♋28 | 6♋50 | 9♊40 | 15♓44 | 17°22 | 3° 6 | n.a. | F 2 |
| S 3 | 8 41 49 | 12°15'17 | 12♍32 | 0♓12 | 22°53 | 2° 2 | 17°12 | 23°18 | 9°26 | 6°48 | 9°39 | 15°D43 | 17°19 | 3°13 | n.a. | S 3 |
| S 4 | 8 45 45 | 13°15'18 | 27°14 | 1°22 | 24° 7 | 2°18 | 17° 7 | 23°19 | 9°23 | 6°47 | 9°39 | 15°43 | 17°16 | 3°19 | n.a. | S 4 |
| M 5 | 8 49 42 | 14°15'18 | 11♎47 | 2°25 | 25°22 | 2°34 | 17° 2 | 23°20 | 9°21 | 6°46 | 9°38 | 15°44 | 17°12 | 3°26 | n.a. | M 5 |
| T 6 | 8 53 38 | 15°15'15 | 26° 9 | 3°20 | 26°36 | 2°51 | 16°56 | 23°21 | 9°19 | 6°44 | 9°38 | 15°46 | 17° 9 | 3°33 | n.a. | T 6 |
| W 7 | 8 57 35 | 16°15'12 | 10♏17 | 4° 8 | 27°50 | 3° 8 | 16°51 | 23°22 | 9°18 | 6°43 | 9°37 | 15°R47 | 17° 6 | 3°39 | n.a. | W 7 |
| T 8 | 9 1 31 | 17°15'06 | 24° 9 | 4°48 | 29° 5 | 3°26 | 16°45 | 23°24 | 9°16 | 6°42 | 9°37 | 15°47 | 17° 3 | 3°46 | n.a. | T 8 |
| F 9 | 9 5 28 | 18°14'59 | 7♐46 | 5°19 | 0♒19 | 3°44 | 16°39 | 23°25 | 9°14 | 6°41 | 9°37 | 15°46 | 17° 0 | 3°53 | n.a. | F 9 |
| S 10 | 9 9 25 | 19°14'50 | 21° 7 | 5°41 | 1°33 | 4° 3 | 16°33 | 23°27 | 9°12 | 6°40 | 9°36 | 15°43 | 16°57 | 3°59 | n.a. | S 10 |
| S 11 | 9 13 21 | 20°14'39 | 4♑13 | 5°55 | 2°48 | 4°21 | 16°27 | 23°28 | 9°10 | 6°39 | 9°36 | 15°39 | 16°53 | 4° 6 | n.a. | S 11 |
| M12 | 9 17 18 | 21°14'27 | 17° 6 | 6°R 0 | 4° 2 | 4°41 | 16°21 | 23°30 | 9° 8 | 6°37 | 9°36 | 15°35 | 16°50 | 4°13 | n.a. | M12 |
| T 13 | 9 21 14 | 22°14'12 | 29°45 | 5°56 | 5°16 | 5° 0 | 16°14 | 23°32 | 9° 7 | 6°36 | 9°35 | 15°31 | 16°47 | 4°19 | n.a. | T 13 |
| W14 | 9 25 11 | 23°13'55 | 12♒13 | 5°44 | 6°31 | 5°20 | 16° 8 | 23°34 | 9° 5 | 6°35 | 9°35 | 15°28 | 16°44 | 4°26 | n.a. | W14 |
| T 15 | 9 29 7 | 24°13'37 | 24°28 | 5°24 | 7°45 | 5°41 | 16° 1 | 23°36 | 9° 3 | 6°34 | 9°35 | 15°26 | 16°41 | 4°33 | n.a. | T 15 |
| F 16 | 9 33 4 | 25°13'16 | 6♓34 | 4°56 | 8°59 | 6° 1 | 15°54 | 23°39 | 9° 2 | 6°33 | 9°35 | 15°24 | 16°38 | 4°39 | n.a. | F 16 |
| S 17 | 9 37 0 | 26°12'53 | 18°31 | 4°22 | 10°14 | 6°22 | 15°47 | 23°41 | 9° 0 | 6°32 | 9°35 | 15°D24 | 16°34 | 4°46 | n.a. | S 17 |
| S 18 | 9 40 57 | 27°12'27 | 0♈22 | 3°42 | 11°28 | 6°44 | 15°41 | 23°44 | 8°59 | 6°31 | 9°34 | 15°25 | 16°31 | 4°53 | n.a. | S 18 |
| M19 | 9 44 54 | 28°12'00 | 12°10 | 2°57 | 12°42 | 7° 5 | 15°33 | 23°46 | 8°57 | 6°30 | 9°34 | 15°26 | 16°28 | 4°59 | n.a. | M19 |
| T 20 | 9 48 50 | 29°11'30 | 23°58 | 2° 8 | 13°57 | 7°27 | 15°26 | 23°49 | 8°56 | 6°29 | 9°34 | 15°28 | 16°25 | 5° 6 | n.a. | T 20 |
| W21 | 9 52 47 | 0♓10'58 | 5♉50 | 1°17 | 15°11 | 7°50 | 15°19 | 23°52 | 8°54 | 6°29 | 9°34 | 15°29 | 16°22 | 5°13 | n.a. | W21 |
| T 22 | 9 56 43 | 1°10'23 | 17°50 | 0°23 | 16°25 | 8°12 | 15°12 | 23°55 | 8°53 | 6°28 | 9°34 | 15°30 | 16°18 | 5°19 | n.a. | T 22 |
| F 23 | 10 0 40 | 2° 9'46 | 0♊ 3 | 29♒30 | 17°39 | 8°35 | 15° 5 | 23°58 | 8°52 | 6°27 | 9°34 | 15°R30 | 16°15 | 5°26 | n.a. | F 23 |
| S 24 | 10 4 36 | 3° 9'07 | 12°34 | 28°37 | 18°54 | 8°59 | 14°57 | 24° 1 | 8°51 | 6°26 | 9°D34 | 15°30 | 16°12 | 5°32 | n.a. | S 24 |
| S 25 | 10 8 33 | 4° 8'25 | 25°27 | 27°45 | 20° 8 | 9°22 | 14°50 | 24° 4 | 8°49 | 6°25 | 9°34 | 15°29 | 16° 9 | 5°39 | n.a. | S 25 |
| M26 | 10 12 29 | 5° 7'41 | 8♋45 | 26°56 | 21°22 | 9°46 | 14°42 | 24° 7 | 8°48 | 6°25 | 9°34 | 15°28 | 16° 6 | 5°46 | n.a. | M26 |
| T 27 | 10 16 26 | 6° 6'55 | 22°30 | 26°11 | 22°36 | 10°10 | 14°35 | 24°11 | 8°47 | 6°24 | 9°34 | 15°27 | 16° 3 | 5°52 | n.a. | T 27 |
| W28 | 10 20 23 | 7♓ 6'06 | 6♌41 | 25♒29 | 23♒50 | 10♊34 | 14♍27 | 24♉14 | 8♋46 | 6♋23 | 9♊34 | 15♓26 | 15♓59 | 5♈59 | n.a. | W28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 17s52 | 19n44 | 2n48 | 11s52 | 0n37 | 22s47 | 0s39 | 23n20 | 2n42 | 6n34 | 1n39 | 17n17 | 1s34 | 23n51 | 0n30 | 23n 8 | 0s24 | 18n30 | 3s41 | 5s40 | 5s 1 | 2n28 | | n.a. |
| F 2 | 17 36 | 13 52 | 1 36 | 11 10 | 0 51 | 22 37 | 0 41 | 23 22 | 2 41 | 6 36 | 1 39 | 17 18 | 1 33 | 23 51 | 0 30 | 23 8 | 0 24 | 18 30 | 3 41 | 5 41 | 5 3 | 2 32 | | n.a. |
| S 3 | 17 19 | 7 12 | 0 17 | 10 30 | 1 6 | 22 27 | 0 43 | 23 25 | 2 40 | 6 38 | 1 40 | 17 18 | 1 33 | 23 51 | 0 30 | 23 8 | 0 24 | 18 30 | 3 41 | 5 42 | 5 4 | 2 35 | | n.a. |
| S 4 | 17 2 | 0 10 | 1s 3 | 9 51 | 1 20 | 22 16 | 0 45 | 23 27 | 2 40 | 6 40 | 1 40 | 17 19 | 1 33 | 23 52 | 0 30 | 23 8 | 0 24 | 18 30 | 3 41 | 5 41 | 5 5 | 2 39 | | n.a. |
| M 5 | 16 44 | 6s49 | 2 18 | 9 15 | 1 35 | 22 5 | 0 48 | 23 30 | 2 39 | 6 43 | 1 40 | 17 19 | 1 33 | 23 52 | 0 29 | 23 8 | 0 24 | 18 30 | 3 41 | 5 41 | 5 6 | 2 42 | | n.a. |
| T 6 | 16 26 | 13 22 | 3 24 | 8 41 | 1 50 | 21 53 | 0 50 | 23 33 | 2 38 | 6 45 | 1 40 | 17 20 | 1 32 | 23 52 | 0 29 | 23 8 | 0 24 | 18 30 | 3 41 | 5 40 | 5 8 | 2 45 | | n.a. |
| W 7 | 16 8 | 19 6 | 4 16 | 8 11 | 2 4 | 21 40 | 0 52 | 23 35 | 2 37 | 6 47 | 1 40 | 17 20 | 1 32 | 23 52 | 0 29 | 23 8 | 0 24 | 18 30 | 3 40 | 5 40 | 5 9 | 2 49 | | n.a. |
| T 8 | 15 50 | 23 43 | 4 52 | 7 43 | 2 18 | 21 27 | 0 54 | 23 38 | 2 36 | 6 50 | 1 41 | 17 21 | 1 32 | 23 52 | 0 29 | 23 8 | 0 24 | 18 30 | 3 40 | 5 40 | 5 10 | 2 52 | | n.a. |
| F 9 | 15 32 | 26 57 | 5 11 | 7 19 | 2 32 | 21 13 | 0 56 | 23 41 | 2 36 | 6 52 | 1 41 | 17 21 | 1 32 | 23 52 | 0 29 | 23 9 | 0 24 | 18 31 | 3 40 | 5 41 | 5 11 | 2 56 | | n.a. |
| S 10 | 15 13 | 28 36 | 5 12 | 6 59 | 2 45 | 20 58 | 0 57 | 23 44 | 2 35 | 6 55 | 1 41 | 17 22 | 1 31 | 23 52 | 0 29 | 23 9 | 0 24 | 18 31 | 3 40 | 5 42 | 5 13 | 2 59 | | n.a. |
| S 11 | 14 54 | 28 36 | 4 58 | 6 42 | 2 57 | 20 43 | 0 59 | 23 46 | 2 34 | 6 57 | 1 41 | 17 23 | 1 31 | 23 52 | 0 29 | 23 9 | 0 23 | 18 31 | 3 40 | 5 43 | 5 14 | 3 3 | | n.a. |
| M12 | 14 35 | 27 1 | 4 28 | 6 30 | 3 8 | 20 27 | 1 1 | 23 49 | 2 33 | 7 0 | 1 41 | 17 24 | 1 31 | 23 53 | 0 29 | 23 9 | 0 23 | 18 31 | 3 40 | 5 45 | 5 15 | 3 6 | | n.a. |
| T 13 | 14 15 | 24 6 | 3 45 | 6 23 | 3 18 | 20 10 | 1 3 | 23 52 | 2 33 | 7 3 | 1 42 | 17 24 | 1 30 | 23 53 | 0 29 | 23 9 | 0 23 | 18 31 | 3 40 | 5 46 | 5 16 | 3 10 | | n.a. |
| W14 | 13 55 | 20 5 | 2 53 | 6 19 | 3 26 | 19 53 | 1 4 | 23 55 | 2 32 | 7 5 | 1 42 | 17 25 | 1 30 | 23 53 | 0 29 | 23 9 | 0 23 | 18 31 | 3 40 | 5 47 | 5 18 | 3 13 | | n.a. |
| T 15 | 13 36 | 15 17 | 1 53 | 6 20 | 3 33 | 19 36 | 1 6 | 23 58 | 2 31 | 7 8 | 1 42 | 17 26 | 1 30 | 23 53 | 0 29 | 23 9 | 0 23 | 18 31 | 3 39 | 5 48 | 5 19 | 3 16 | | n.a. |
| F 16 | 13 15 | 9 57 | 0 49 | 6 25 | 3 39 | 19 18 | 1 8 | 24 1 | 2 30 | 7 11 | 1 42 | 17 27 | 1 30 | 23 53 | 0 29 | 23 9 | 0 23 | 18 31 | 3 39 | 5 49 | 5 20 | 3 20 | | n.a. |
| S 17 | 12 55 | 4 19 | 0n17 | 6 34 | 3 42 | 18 59 | 1 9 | 24 4 | 2 29 | 7 14 | 1 42 | 17 27 | 1 29 | 23 53 | 0 29 | 23 9 | 0 23 | 18 31 | 3 39 | 5 49 | 5 21 | 3 23 | | n.a. |
| S 18 | 12 35 | 1n24 | 1 22 | 6 47 | 3 44 | 18 40 | 1 10 | 24 7 | 2 29 | 7 17 | 1 42 | 17 28 | 1 29 | 23 53 | 0 29 | 23 9 | 0 23 | 18 31 | 3 39 | 5 49 | 5 23 | 3 27 | | n.a. |
| M19 | 12 14 | 7 3 | 2 23 | 7 3 | 3 44 | 18 20 | 1 12 | 24 10 | 2 28 | 7 20 | 1 43 | 17 29 | 1 29 | 23 53 | 0 29 | 23 9 | 0 23 | 18 32 | 3 39 | 5 48 | 5 24 | 3 30 | | n.a. |
| T 20 | 11 53 | 12 27 | 3 18 | 7 22 | 3 42 | 18 0 | 1 13 | 24 13 | 2 27 | 7 22 | 1 43 | 17 30 | 1 29 | 23 53 | 0 29 | 23 9 | 0 23 | 18 32 | 3 39 | 5 48 | 5 25 | 3 34 | | n.a. |
| W21 | 11 32 | 17 27 | 4 4 | 7 44 | 3 38 | 17 39 | 1 14 | 24 16 | 2 26 | 7 25 | 1 43 | 17 31 | 1 29 | 23 53 | 0 29 | 23 9 | 0 23 | 18 32 | 3 39 | 5 47 | 5 26 | 3 37 | | n.a. |
| T 22 | 11 11 | 21 49 | 4 41 | 8 9 | 3 33 | 17 17 | 1 16 | 24 19 | 2 26 | 7 28 | 1 43 | 17 32 | 1 28 | 23 53 | 0 29 | 23 9 | 0 23 | 18 32 | 3 38 | 5 47 | 5 28 | 3 41 | | n.a. |
| F 23 | 10 49 | 25 22 | 5 6 | 8 34 | 3 25 | 16 56 | 1 17 | 24 22 | 2 25 | 7 31 | 1 43 | 17 33 | 1 28 | 23 54 | 0 29 | 23 10 | 0 23 | 18 32 | 3 38 | 5 46 | 5 29 | 3 44 | | n.a. |
| S 24 | 10 28 | 27 47 | 5 17 | 9 1 | 3 16 | 16 34 | 1 18 | 24 25 | 2 24 | 7 34 | 1 43 | 17 34 | 1 28 | 23 54 | 0 29 | 23 10 | 0 23 | 18 32 | 3 38 | 5 47 | 5 30 | 3 47 | | n.a. |
| S 25 | 10 6 | 28 50 | 5 12 | 9 29 | 3 6 | 16 11 | 1 19 | 24 28 | 2 23 | 7 37 | 1 43 | 17 35 | 1 28 | 23 54 | 0 29 | 23 10 | 0 23 | 18 32 | 3 38 | 5 47 | 5 31 | 3 51 | | n.a. |
| M26 | 9 44 | 28 15 | 4 51 | 9 57 | 2 54 | 15 48 | 1 20 | 24 31 | 2 23 | 7 40 | 1 43 | 17 36 | 1 27 | 23 54 | 0 29 | 23 10 | 0 23 | 18 33 | 3 38 | 5 47 | 5 33 | 3 54 | | n.a. |
| T 27 | 9 22 | 25 58 | 4 13 | 10 25 | 2 41 | 15 24 | 1 21 | 24 33 | 2 22 | 7 43 | 1 43 | 17 37 | 1 27 | 23 54 | 0 29 | 23 10 | 0 23 | 18 33 | 3 38 | 5 48 | 5 34 | 3 58 | | n.a. |
| W28 | 9s 0 | 22n 1 | 3n19 | 10s51 | 2n27 | 15s 0 | 1s22 | 24n36 | 2n21 | 7n46 | 1n43 | 17n38 | 1s27 | 23n54 | 0n29 | 23n10 | 0s23 | 18n33 | 3s38 | 5s48 | 5s35 | 4n 1 | | n.a. |

Julian Day Number = 1699539.5, Delta T = 03h06m17s
Ecliptic obliquity = 23°42'17, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°53'27, Lahiri = - 4°46'27 Julian Calendar 1 Feb. 60 BCE == Greg. Calendar 30 Jan. 060 BCE

The year -59 astronomical counting style corresponds to year 060 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 60 BCE
# geocentric

## MARCH 60 BCE (-59) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 10 24 19 | 8♓ 5'15 | 21♌15 | 24°R52 | 25♒ 5 | 10♊59 | 14°R20 | 24♉18 | 8°R45 | 6°R23 | 9♊34 | 15°R25 | 15♓56 | 6♈ 6 | n.a. | T 1 |
| F 2 | 10 28 16 | 9° 4'21 | 6♍ 8 | 24♒21 | 26°19 | 11°23 | 14♍12 | 24°21 | 8♋44 | 6♋22 | 9°34 | 15♓25 | 15°53 | 6°12 | n.a. | F 2 |
| S 3 | 10 32 12 | 10° 3'25 | 21°10 | 23°54 | 27°33 | 11°48 | 14° 4 | 24°25 | 8°43 | 6°22 | 9°35 | 15°D25 | 15°50 | 6°19 | n.a. | S 3 |
| S 4 | 10 36 9 | 11° 2'28 | 6♎15 | 23°33 | 28°47 | 12°14 | 13°57 | 24°29 | 8°43 | 6°21 | 9°35 | 15°25 | 15°47 | 6°26 | n.a. | S 4 |
| M 5 | 10 40 5 | 12° 1'28 | 21°13 | 23°18 | 0♓ 1 | 12°39 | 13°49 | 24°33 | 8°42 | 6°20 | 9°35 | 15°25 | 15°44 | 6°32 | n.a. | M 5 |
| T 6 | 10 44 2 | 13° 0'26 | 5♏56 | 23° 8 | 1°15 | 13° 5 | 13°41 | 24°37 | 8°41 | 6°20 | 9°35 | 15°26 | 15°40 | 6°39 | n.a. | T 6 |
| W 7 | 10 47 58 | 13°59'23 | 20°20 | 23°D 4 | 2°30 | 13°31 | 13°34 | 24°41 | 8°40 | 6°20 | 9°35 | 15°26 | 15°37 | 6°46 | n.a. | W 7 |
| T 8 | 10 51 55 | 14°58'18 | 4♐21 | 23° 6 | 3°44 | 13°57 | 13°26 | 24°46 | 8°40 | 6°19 | 9°36 | 15°26 | 15°34 | 6°52 | n.a. | T 8 |
| F 9 | 10 55 51 | 15°57'11 | 17°59 | 23°13 | 4°58 | 14°23 | 13°18 | 24°50 | 8°39 | 6°19 | 9°36 | 15°26 | 15°31 | 6°59 | n.a. | F 9 |
| S 10 | 10 59 48 | 16°56'02 | 1♑15 | 23°25 | 6°12 | 14°50 | 13°10 | 24°54 | 8°39 | 6°18 | 9°36 | 15°26 | 15°28 | 7° 6 | n.a. | S 10 |
| S 11 | 11 3 45 | 17°54'51 | 14°10 | 23°42 | 7°26 | 15°16 | 13° 3 | 24°59 | 8°38 | 6°18 | 9°37 | 15°26 | 15°24 | 7°12 | n.a. | S 11 |
| M12 | 11 7 41 | 18°53'39 | 26°48 | 24° 4 | 8°40 | 15°43 | 12°55 | 25° 3 | 8°38 | 6°18 | 9°37 | 15°26 | 15°21 | 7°19 | n.a. | M12 |
| T 13 | 11 11 38 | 19°52'24 | 9♒11 | 24°30 | 9°54 | 16°10 | 12°47 | 25° 8 | 8°38 | 6°18 | 9°37 | 15°27 | 15°18 | 7°26 | n.a. | T 13 |
| W14 | 11 15 34 | 20°51'08 | 21°23 | 25° 1 | 11° 8 | 16°38 | 12°40 | 25°13 | 8°37 | 6°17 | 9°38 | 15°27 | 15°15 | 7°32 | n.a. | W14 |
| T 15 | 11 19 31 | 21°49'50 | 3♓25 | 25°36 | 12°22 | 17° 5 | 12°32 | 25°18 | 8°37 | 6°17 | 9°38 | 15°28 | 15°12 | 7°39 | n.a. | T 15 |
| F 16 | 11 23 27 | 22°48'29 | 15°20 | 26°14 | 13°37 | 17°33 | 12°25 | 25°22 | 8°37 | 6°17 | 9°39 | 15°R28 | 15° 9 | 7°46 | n.a. | F 16 |
| S 17 | 11 27 24 | 23°47'07 | 27°11 | 26°57 | 14°51 | 18° 1 | 12°17 | 25°27 | 8°37 | 6°17 | 9°39 | 15°28 | 15° 5 | 7°52 | n.a. | S 17 |
| S 18 | 11 31 20 | 24°45'43 | 8♈59 | 27°43 | 16° 5 | 18°29 | 12°10 | 25°33 | 8°37 | 6°17 | 9°40 | 15°27 | 15° 2 | 7°59 | n.a. | S 18 |
| M19 | 11 35 17 | 25°44'16 | 20°47 | 28°33 | 17°19 | 18°57 | 12° 3 | 25°38 | 8°D37 | 6°17 | 9°40 | 15°26 | 14°59 | 8° 6 | n.a. | M19 |
| T 20 | 11 39 14 | 26°42'48 | 2♉37 | 29°26 | 18°33 | 19°26 | 11°55 | 25°43 | 8°37 | 6°D17 | 9°41 | 15°24 | 14°56 | 8°12 | n.a. | T 20 |
| W21 | 11 43 10 | 27°41'17 | 14°32 | 0♓22 | 19°47 | 19°54 | 11°48 | 25°48 | 8°37 | 6°17 | 9°41 | 15°23 | 14°53 | 8°19 | n.a. | W21 |
| T 22 | 11 47 7 | 28°39'44 | 26°35 | 1°20 | 21° 1 | 20°23 | 11°41 | 25°54 | 8°37 | 6°17 | 9°42 | 15°21 | 14°49 | 8°26 | n.a. | T 22 |
| F 23 | 11 51 3 | 29°38'09 | 8♊50 | 2°22 | 22°15 | 20°52 | 11°34 | 25°59 | 8°37 | 6°17 | 9°43 | 15°19 | 14°46 | 8°32 | n.a. | F 23 |
| S 24 | 11 55 0 | 0♈36'32 | 21°19 | 3°27 | 23°29 | 21°21 | 11°27 | 26° 5 | 8°37 | 6°17 | 9°43 | 15°18 | 14°43 | 8°39 | n.a. | S 24 |
| S 25 | 11 58 56 | 1°34'53 | 4♋ 7 | 4°34 | 24°43 | 21°50 | 11°20 | 26°10 | 8°37 | 6°17 | 9°44 | 15°D18 | 14°40 | 8°45 | n.a. | S 25 |
| M26 | 12 2 53 | 2°33'12 | 17°18 | 5°43 | 25°57 | 22°20 | 11°13 | 26°16 | 8°38 | 6°17 | 9°44 | 15°19 | 14°37 | 8°52 | n.a. | M26 |
| T 27 | 12 6 49 | 3°31'28 | 0♌54 | 6°55 | 27°11 | 22°49 | 11° 6 | 26°22 | 8°38 | 6°18 | 9°45 | 15°20 | 14°34 | 8°59 | n.a. | T 27 |
| W28 | 12 10 46 | 4°29'42 | 14°56 | 8°10 | 28°24 | 23°19 | 11° 0 | 26°27 | 8°39 | 6°18 | 9°46 | 15°21 | 14°30 | 9° 5 | n.a. | W28 |
| T 29 | 12 14 43 | 5°27'54 | 29°24 | 9°26 | 29°38 | 23°49 | 10°53 | 26°33 | 8°39 | 6°18 | 9°47 | 15°22 | 14°27 | 9°12 | n.a. | T 29 |
| F 30 | 12 18 39 | 6°26'04 | 14♍14 | 10°45 | 0♈52 | 24°19 | 10°47 | 26°39 | 8°40 | 6°18 | 9°47 | 15°R23 | 14°24 | 9°19 | n.a. | F 30 |
| S 31 | 12 22 36 | 7♈24'12 | 29♍21 | 12♓ 6 | 2♈ 6 | 24♊49 | 10♍41 | 26♉45 | 8♋40 | 6♋19 | 9♊48 | 15♓22 | 14♓21 | 9♈25 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 8s38 | 16n38 | 2n10 | 11s17 | 2n13 | 14s36 | 1s22 | 24n39 | 2n20 | 7n49 | 1n43 | 17n39 | 1s27 | 23n54 | 0n29 | 23n10 | 0s23 | 18n33 | 3s37 | 5s48 | 5s36 | 4n 5 | | | n.a. |
| F 2 | 8 15 | 10 10 | 0 51 | 11 42 | 1 58 | 14 11 | 1 23 | 24 42 | 2 20 | 7 52 | 1 44 | 17 40 | 1 26 | 23 54 | 0 29 | 23 10 | 0 23 | 18 33 | 3 37 | 5 49 | 5 38 | 4 8 | | | n.a. |
| S 3 | 7 53 | 3 3 | 0s32 | 12 5 | 1 43 | 13 46 | 1 24 | 24 45 | 2 19 | 7 55 | 1 44 | 17 42 | 1 26 | 23 54 | 0 29 | 23 10 | 0 23 | 18 33 | 3 37 | 5 49 | 5 39 | 4 11 | | | n.a. |
| S 4 | 7 30 | 4s14 | 1 53 | 12 27 | 1 27 | 13 21 | 1 24 | 24 47 | 2 18 | 7 58 | 1 44 | 17 43 | 1 26 | 23 54 | 0 29 | 23 10 | 0 23 | 18 33 | 3 37 | 5 49 | 5 40 | 4 15 | | | n.a. |
| M 5 | 7 8 | 11 14 | 3 6 | 12 46 | 1 12 | 12 55 | 1 25 | 24 50 | 2 17 | 8 1 | 1 44 | 17 44 | 1 26 | 23 54 | 0 29 | 23 10 | 0 23 | 18 34 | 3 37 | 5 48 | 5 41 | 4 18 | | | n.a. |
| T 6 | 6 45 | 17 30 | 4 5 | 13 4 | 0 57 | 12 28 | 1 25 | 24 53 | 2 17 | 8 5 | 1 44 | 17 45 | 1 25 | 23 54 | 0 29 | 23 10 | 0 23 | 18 34 | 3 37 | 5 48 | 5 43 | 4 22 | | | n.a. |
| W 7 | 6 22 | 22 38 | 4 48 | 13 19 | 0 42 | 12 2 | 1 26 | 24 55 | 2 16 | 8 8 | 1 44 | 17 46 | 1 25 | 23 54 | 0 29 | 23 10 | 0 23 | 18 34 | 3 37 | 5 48 | 5 44 | 4 25 | | | n.a. |
| T 8 | 5 59 | 26 21 | 5 12 | 13 33 | 0 27 | 11 35 | 1 26 | 24 58 | 2 15 | 8 11 | 1 44 | 17 48 | 1 25 | 23 54 | 0 29 | 23 10 | 0 23 | 18 34 | 3 36 | 5 48 | 5 45 | 4 28 | | | n.a. |
| F 9 | 5 36 | 28 25 | 5 17 | 13 44 | 0 13 | 11 8 | 1 26 | 25 0 | 2 14 | 8 14 | 1 44 | 17 49 | 1 25 | 23 54 | 0 29 | 23 10 | 0 23 | 18 34 | 3 36 | 5 48 | 5 46 | 4 32 | | | n.a. |
| S 10 | 5 13 | 28 48 | 5 6 | 13 53 | 0s 1 | 10 41 | 1 27 | 25 3 | 2 14 | 8 17 | 1 44 | 17 50 | 1 25 | 23 54 | 0 29 | 23 10 | 0 23 | 18 35 | 3 36 | 5 48 | 5 48 | 4 35 | | | n.a. |
| S 11 | 4 50 | 27 34 | 4 39 | 14 0 | 0 15 | 10 13 | 1 27 | 25 5 | 2 13 | 8 20 | 1 44 | 17 52 | 1 24 | 23 54 | 0 29 | 23 10 | 0 23 | 18 35 | 3 36 | 5 48 | 5 49 | 4 39 | | | n.a. |
| M12 | 4 26 | 24 56 | 3 59 | 14 5 | 0 27 | 9 45 | 1 27 | 25 7 | 2 12 | 8 23 | 1 44 | 17 53 | 1 24 | 23 54 | 0 29 | 23 10 | 0 23 | 18 35 | 3 36 | 5 48 | 5 50 | 4 42 | | | n.a. |
| T 13 | 4 3 | 21 11 | 3 8 | 14 8 | 0 40 | 9 17 | 1 27 | 25 10 | 2 12 | 8 25 | 1 44 | 17 54 | 1 24 | 23 54 | 0 29 | 23 10 | 0 23 | 18 35 | 3 36 | 5 48 | 5 51 | 4 46 | | | n.a. |
| W14 | 3 40 | 16 35 | 2 10 | 14 8 | 0 52 | 8 48 | 1 27 | 25 12 | 2 11 | 8 28 | 1 44 | 17 56 | 1 24 | 23 54 | 0 29 | 23 10 | 0 23 | 18 35 | 3 36 | 5 48 | 5 53 | 4 49 | | | n.a. |
| T 15 | 3 17 | 11 24 | 1 6 | 14 7 | 1 3 | 8 19 | 1 27 | 25 14 | 2 10 | 8 31 | 1 44 | 17 57 | 1 23 | 23 54 | 0 29 | 23 11 | 0 23 | 18 36 | 3 35 | 5 48 | 5 54 | 4 52 | | | n.a. |
| F 16 | 2 53 | 5 51 | 0 1 | 14 3 | 1 13 | 7 51 | 1 26 | 25 16 | 2 10 | 8 34 | 1 44 | 17 58 | 1 23 | 23 54 | 0 29 | 23 11 | 0 23 | 18 36 | 3 35 | 5 47 | 5 55 | 4 56 | | | n.a. |
| S 17 | 2 30 | 0 9 | 1n 5 | 13 58 | 1 23 | 7 21 | 1 26 | 25 18 | 2 9 | 8 37 | 1 44 | 18 0 | 1 23 | 23 54 | 0 29 | 23 11 | 0 23 | 18 36 | 3 35 | 5 48 | 5 56 | 4 59 | | | n.a. |
| S 18 | 2 6 | 5n32 | 2 7 | 13 51 | 1 33 | 6 52 | 1 26 | 25 20 | 2 8 | 8 40 | 1 43 | 18 1 | 1 23 | 23 54 | 0 29 | 23 11 | 0 23 | 18 36 | 3 35 | 5 48 | 5 57 | 5 3 | | | n.a. |
| M19 | 1 43 | 11 2 | 3 4 | 13 42 | 1 41 | 6 23 | 1 26 | 25 21 | 2 7 | 8 43 | 1 43 | 18 3 | 1 23 | 23 54 | 0 29 | 23 11 | 0 23 | 18 36 | 3 35 | 5 48 | 5 59 | 5 6 | | | n.a. |
| T 20 | 1 19 | 16 9 | 3 53 | 13 30 | 1 50 | 5 53 | 1 25 | 25 23 | 2 7 | 8 45 | 1 43 | 18 4 | 1 22 | 23 54 | 0 29 | 23 11 | 0 23 | 18 37 | 3 35 | 5 49 | 6 0 | 5 9 | | | n.a. |
| W21 | 0 56 | 20 42 | 4 32 | 13 17 | 1 57 | 5 23 | 1 25 | 25 25 | 2 6 | 8 48 | 1 43 | 18 5 | 1 22 | 23 54 | 0 29 | 23 11 | 0 23 | 18 37 | 3 35 | 5 50 | 6 1 | 5 13 | | | n.a. |
| T 22 | 0 32 | 24 28 | 5 0 | 13 3 | 2 4 | 4 53 | 1 24 | 25 26 | 2 5 | 8 51 | 1 43 | 18 7 | 1 22 | 23 54 | 0 29 | 23 11 | 0 23 | 18 37 | 3 34 | 5 50 | 6 2 | 5 16 | | | n.a. |
| F 23 | 0 9 | 27 11 | 5 14 | 12 46 | 2 10 | 4 23 | 1 23 | 25 28 | 2 5 | 8 53 | 1 43 | 18 8 | 1 22 | 23 54 | 0 29 | 23 11 | 0 23 | 18 37 | 3 34 | 5 51 | 6 4 | 5 20 | | | n.a. |
| S 24 | 0n15 | 28 39 | 5 15 | 12 28 | 2 16 | 3 53 | 1 23 | 25 29 | 2 4 | 8 56 | 1 43 | 18 10 | 1 22 | 23 54 | 0 29 | 23 11 | 0 23 | 18 37 | 3 34 | 5 51 | 6 5 | 5 23 | | | n.a. |
| S 25 | 0 38 | 28 38 | 5 0 | 12 8 | 2 21 | 3 23 | 1 22 | 25 30 | 2 3 | 8 59 | 1 43 | 18 11 | 1 21 | 23 54 | 0 29 | 23 11 | 0 22 | 18 38 | 3 34 | 5 51 | 6 6 | 5 26 | | | n.a. |
| M26 | 1 2 | 27 0 | 4 29 | 11 46 | 2 26 | 2 52 | 1 21 | 25 31 | 2 3 | 9 1 | 1 43 | 18 13 | 1 21 | 23 54 | 0 29 | 23 11 | 0 22 | 18 38 | 3 34 | 5 51 | 6 7 | 5 30 | | | n.a. |
| T 27 | 1 25 | 23 47 | 3 42 | 11 23 | 2 29 | 2 22 | 1 20 | 25 32 | 2 2 | 9 4 | 1 43 | 18 14 | 1 21 | 23 54 | 0 29 | 23 11 | 0 22 | 18 38 | 3 34 | 5 51 | 6 9 | 5 33 | | | n.a. |
| W28 | 1 48 | 19 5 | 2 40 | 10 57 | 2 33 | 1 51 | 1 19 | 25 33 | 2 1 | 9 6 | 1 43 | 18 16 | 1 21 | 23 54 | 0 29 | 23 11 | 0 22 | 18 38 | 3 34 | 5 50 | 6 10 | 5 37 | | | n.a. |
| T 29 | 2 12 | 13 10 | 1 27 | 10 31 | 2 35 | 1 20 | 1 18 | 25 34 | 2 1 | 9 8 | 1 42 | 18 18 | 1 21 | 23 54 | 0 29 | 23 11 | 0 22 | 18 39 | 3 34 | 5 50 | 6 11 | 5 40 | | | n.a. |
| F 30 | 2 35 | 6 22 | 0 6 | 10 2 | 2 38 | 0 50 | 1 17 | 25 35 | 2 0 | 9 11 | 1 42 | 18 19 | 1 20 | 23 54 | 0 29 | 23 11 | 0 22 | 18 39 | 3 33 | 5 49 | 6 12 | 5 43 | | | n.a. |
| S 31 | 2n58 | 0s54 | 1s16 | 9s33 | 2s39 | 0s19 | 1s16 | 25n35 | 1n59 | 9n13 | 1n42 | 18n21 | 1s20 | 23n54 | 0n29 | 23n11 | 0s22 | 18n39 | 3s33 | 5s50 | 6s14 | 5n47 | | | n.a. |

Julian Day Number = 1699567.5, Delta T = 03h06m16s
Ecliptic obliquity = 23°42'17, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°53'24, Lahiri = - 4°46'23 Julian Calendar 1 March 60 BCE == Greg. Calendar 27 Feb. 060 BCE

The year -59 astronomical counting style corresponds to year 060 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 60 BCE
# geocentric

## APRIL 60 BCE (-59) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 26 32 | 8♈22'18 | 14♎35 | 13♓29 | 3♈20 | 25♊19 | 10°R35 | 26♉51 | 8♋41 | 6♋19 | 9♊49 | 15°R21 | 14♓18 | 9♈32 | n.a. | S 1 |
| M 2 | 12 30 29 | 9°20'22 | 29°47 | 14°55 | 4°34 | 25°49 | 10♍29 | 26°57 | 8°42 | 6°20 | 9°50 | 15♓18 | 14°15 | 9°39 | n.a. | M 2 |
| T 3 | 12 34 25 | 10°18'24 | 14♏47 | 16°22 | 5°48 | 26°20 | 10°23 | 27° 4 | 8°42 | 6°20 | 9°51 | 15°15 | 14°11 | 9°45 | n.a. | T 3 |
| W 4 | 12 38 22 | 11°16'26 | 29°27 | 17°51 | 7° 2 | 26°50 | 10°17 | 27°10 | 8°43 | 6°20 | 9°51 | 15°11 | 14° 8 | 9°52 | n.a. | W 4 |
| T 5 | 12 42 18 | 12°14'25 | 13♐41 | 19°22 | 8°16 | 27°21 | 10°11 | 27°16 | 8°44 | 6°21 | 9°52 | 15° 8 | 14° 5 | 9°59 | n.a. | T 5 |
| F 6 | 12 46 15 | 13°12'24 | 27°28 | 20°56 | 9°30 | 27°52 | 10° 6 | 27°22 | 8°45 | 6°22 | 9°53 | 15° 6 | 14° 2 | 10° 5 | n.a. | F 6 |
| S 7 | 12 50 11 | 14°10'21 | 10♑47 | 22°31 | 10°43 | 28°23 | 10° 0 | 27°29 | 8°46 | 6°22 | 9°54 | 15°D 5 | 13°59 | 10°12 | n.a. | S 7 |
| S 8 | 12 54 8 | 15° 8'16 | 23°40 | 24° 8 | 11°57 | 28°54 | 9°55 | 27°35 | 8°47 | 6°23 | 9°55 | 15° 6 | 13°55 | 10°19 | n.a. | S 8 |
| M 9 | 12 58 5 | 16° 6'10 | 6♒13 | 25°47 | 13°11 | 29°25 | 9°50 | 27°42 | 8°48 | 6°23 | 9°56 | 15° 7 | 13°52 | 10°25 | n.a. | M 9 |
| T 10 | 13 2 1 | 17° 4'03 | 18°29 | 27°29 | 14°25 | 29°56 | 9°45 | 27°48 | 8°49 | 6°24 | 9°57 | 15° 8 | 13°49 | 10°32 | n.a. | T 10 |
| W11 | 13 5 58 | 18° 1'54 | 0♓31 | 29°12 | 15°39 | 0♋28 | 9°40 | 27°55 | 8°50 | 6°25 | 9°58 | 15°10 | 13°46 | 10°39 | n.a. | W11 |
| T 12 | 13 9 54 | 18°59'44 | 12°25 | 0♈57 | 16°53 | 0°59 | 9°36 | 28° 2 | 8°52 | 6°25 | 9°59 | 15°R11 | 13°43 | 10°45 | n.a. | T 12 |
| F 13 | 13 13 51 | 19°57'32 | 24°14 | 2°44 | 18° 6 | 1°31 | 9°31 | 28° 8 | 8°53 | 6°26 | 10° 0 | 15°10 | 13°40 | 10°52 | n.a. | F 13 |
| S 14 | 13 17 47 | 20°55'19 | 6♈ 2 | 4°33 | 19°20 | 2° 3 | 9°27 | 28°15 | 8°54 | 6°27 | 10° 1 | 15° 8 | 13°36 | 10°59 | n.a. | S 14 |
| S 15 | 13 21 44 | 21°53'05 | 17°50 | 6°24 | 20°34 | 2°34 | 9°23 | 28°22 | 8°56 | 6°28 | 10° 2 | 15° 5 | 13°33 | 11° 5 | n.a. | S 15 |
| M16 | 13 25 40 | 22°50'49 | 29°41 | 8°17 | 21°48 | 3° 6 | 9°19 | 28°29 | 8°57 | 6°29 | 10° 3 | 14°59 | 13°30 | 11°12 | n.a. | M16 |
| T 17 | 13 29 37 | 23°48'32 | 11♉36 | 10°11 | 23° 2 | 3°38 | 9°15 | 28°36 | 8°58 | 6°30 | 10° 4 | 14°53 | 13°27 | 11°19 | n.a. | T 17 |
| W18 | 13 33 34 | 24°46'13 | 23°39 | 12° 8 | 24°15 | 4°11 | 9°11 | 28°43 | 9° 0 | 6°31 | 10° 5 | 14°45 | 13°24 | 11°25 | n.a. | W18 |
| T 19 | 13 37 30 | 25°43'53 | 5♊49 | 14° 7 | 25°29 | 4°43 | 9° 8 | 28°50 | 9° 2 | 6°31 | 10° 6 | 14°38 | 13°21 | 11°32 | n.a. | T 19 |
| F 20 | 13 41 27 | 26°41'31 | 18°11 | 16° 7 | 26°43 | 5°15 | 9° 4 | 28°57 | 9° 3 | 6°32 | 10° 8 | 14°32 | 13°17 | 11°39 | n.a. | F 20 |
| S 21 | 13 45 23 | 27°39'08 | 0♋45 | 18° 9 | 27°57 | 5°48 | 9° 1 | 29° 4 | 9° 5 | 6°33 | 10° 9 | 14°27 | 13°14 | 11°45 | n.a. | S 21 |
| S 22 | 13 49 20 | 28°36'43 | 13°34 | 20°13 | 29°10 | 6°20 | 8°58 | 29°11 | 9° 7 | 6°35 | 10°10 | 14°24 | 13°11 | 11°52 | n.a. | S 22 |
| M23 | 13 53 16 | 29°34'16 | 26°41 | 22°19 | 0♌24 | 6°53 | 8°55 | 29°18 | 9° 8 | 6°36 | 10°11 | 14°D23 | 13° 8 | 11°59 | n.a. | M23 |
| T 24 | 13 57 13 | 0♌31'48 | 10♎ 9 | 24°26 | 1°38 | 7°26 | 8°53 | 29°26 | 9°10 | 6°37 | 10°12 | 14°23 | 13° 5 | 12° 5 | n.a. | T 24 |
| W25 | 14 1 9 | 1°29'18 | 24° 0 | 26°34 | 2°52 | 7°58 | 8°50 | 29°33 | 9°12 | 6°38 | 10°13 | 14°24 | 13° 1 | 12°12 | n.a. | W25 |
| T 26 | 14 5 6 | 2°26'47 | 8♍15 | 28°43 | 4° 5 | 8°31 | 8°48 | 29°40 | 9°14 | 6°39 | 10°15 | 14°R25 | 12°58 | 12°19 | n.a. | T 26 |
| F 27 | 14 9 3 | 3°24'14 | 22°52 | 0♌54 | 5°19 | 9° 4 | 8°46 | 29°47 | 9°16 | 6°40 | 10°16 | 14°25 | 12°55 | 12°25 | n.a. | F 27 |
| S 28 | 14 12 59 | 4°21'40 | 7♎47 | 3° 5 | 6°33 | 9°38 | 8°44 | 29°55 | 9°18 | 6°41 | 10°17 | 14°23 | 12°52 | 12°32 | n.a. | S 28 |
| S 29 | 14 16 56 | 5°19'05 | 22°54 | 5°16 | 7°46 | 10°11 | 8°42 | 0♊ 2 | 9°20 | 6°43 | 10°18 | 14°19 | 12°49 | 12°39 | n.a. | S 29 |
| M30 | 14 20 52 | 6♌16'29 | 8♏ 5 | 7♌28 | 9♌ 0 | 10♋44 | 8♍40 | 0♊ 9 | 9♋22 | 6♋44 | 10♊20 | 14♓13 | 12♓46 | 12♈45 | n.a. | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 3n21 | 8s10 | 2s34 | 9s 1 | 2s40 | 0n12 | 1s15 | 25n36 | 1n59 | 9n15 | 1n42 | 18n22 | 1s20 | 23n54 | 0n29 | 23n11 | 0s22 | 18n39 | 3s33 | 5s50 | 6s15 | 5n50 | | n.a. |
| M 2 | 3 44 | 14 57 | 3 41 | 8 28 | 2 40 | 0 42 | 1 14 | 25 36 | 1 58 | 9 17 | 1 42 | 18 24 | 1 20 | 23 54 | 0 29 | 23 11 | 0 22 | 18 40 | 3 33 | 5 51 | 6 16 | 5 54 | | n.a. |
| T 3 | 4 7 | 20 46 | 4 31 | 7 54 | 2 40 | 1 13 | 1 13 | 25 36 | 1 57 | 9 19 | 1 42 | 18 26 | 1 20 | 23 54 | 0 29 | 23 11 | 0 22 | 18 40 | 3 33 | 5 53 | 6 17 | 5 57 | | n.a. |
| W 4 | 4 30 | 25 10 | 5 2 | 7 18 | 2 39 | 1 44 | 1 11 | 25 37 | 1 57 | 9 22 | 1 42 | 18 27 | 1 20 | 23 53 | 0 29 | 23 11 | 0 22 | 18 40 | 3 33 | 5 54 | 6 19 | 6 0 | | n.a. |
| T 5 | 4 53 | 27 53 | 5 14 | 6 40 | 2 38 | 2 14 | 1 10 | 25 37 | 1 56 | 9 24 | 1 41 | 18 29 | 1 19 | 23 53 | 0 29 | 23 11 | 0 22 | 18 40 | 3 33 | 5 55 | 6 20 | 6 4 | | n.a. |
| F 6 | 5 16 | 28 48 | 5 7 | 6 1 | 2 36 | 2 45 | 1 9 | 25 37 | 1 55 | 9 26 | 1 41 | 18 30 | 1 19 | 23 53 | 0 29 | 23 11 | 0 22 | 18 41 | 3 32 | 5 56 | 6 21 | 6 7 | | n.a. |
| S 7 | 5 39 | 27 58 | 4 43 | 5 21 | 2 34 | 3 16 | 1 7 | 25 36 | 1 55 | 9 27 | 1 41 | 18 32 | 1 19 | 23 53 | 0 29 | 23 11 | 0 22 | 18 41 | 3 32 | 5 56 | 6 22 | 6 10 | | n.a. |
| S 8 | 6 2 | 25 38 | 4 6 | 4 39 | 2 31 | 3 46 | 1 6 | 25 36 | 1 54 | 9 29 | 1 41 | 18 34 | 1 19 | 23 53 | 0 29 | 23 11 | 0 22 | 18 41 | 3 32 | 5 56 | 6 23 | 6 14 | | n.a. |
| M 9 | 6 24 | 22 7 | 3 18 | 3 56 | 2 27 | 4 17 | 1 4 | 25 36 | 1 53 | 9 31 | 1 41 | 18 35 | 1 19 | 23 53 | 0 29 | 23 11 | 0 22 | 18 41 | 3 32 | 5 56 | 6 25 | 6 17 | | n.a. |
| T 10 | 6 47 | 17 41 | 2 21 | 3 12 | 2 23 | 4 47 | 1 2 | 25 35 | 1 53 | 9 33 | 1 40 | 18 37 | 1 19 | 23 53 | 0 29 | 23 11 | 0 22 | 18 42 | 3 32 | 5 55 | 6 26 | 6 21 | | n.a. |
| W11 | 7 9 | 12 39 | 1 19 | 2 26 | 2 18 | 5 17 | 1 1 | 25 34 | 1 52 | 9 34 | 1 40 | 18 39 | 1 18 | 23 53 | 0 29 | 23 11 | 0 22 | 18 42 | 3 32 | 5 54 | 6 27 | 6 24 | | n.a. |
| T 12 | 7 31 | 7 12 | 0 15 | 1 39 | 2 13 | 5 48 | 0 59 | 25 34 | 1 52 | 9 36 | 1 40 | 18 40 | 1 18 | 23 53 | 0 28 | 23 11 | 0 22 | 18 42 | 3 32 | 5 54 | 6 28 | 6 27 | | n.a. |
| F 13 | 7 53 | 1 34 | 0n49 | 0 51 | 2 7 | 6 18 | 0 57 | 25 33 | 1 51 | 9 37 | 1 40 | 18 42 | 1 18 | 23 53 | 0 28 | 23 11 | 0 22 | 18 42 | 3 32 | 5 54 | 6 30 | 6 31 | | n.a. |
| S 14 | 8 15 | 4n 7 | 1 51 | 0 1 | 2 1 | 6 48 | 0 56 | 25 32 | 1 50 | 9 39 | 1 40 | 18 44 | 1 18 | 23 53 | 0 28 | 23 11 | 0 22 | 18 43 | 3 32 | 5 55 | 6 31 | 6 34 | | n.a. |
| S 15 | 8 37 | 9 40 | 2 49 | 0n49 | 1 54 | 7 17 | 0 54 | 25 30 | 1 50 | 9 40 | 1 39 | 18 45 | 1 18 | 23 52 | 0 28 | 23 11 | 0 22 | 18 43 | 3 31 | 5 57 | 6 32 | 6 37 | | n.a. |
| M16 | 8 59 | 14 53 | 3 39 | 1 41 | 1 47 | 7 47 | 0 52 | 25 29 | 1 49 | 9 42 | 1 39 | 18 47 | 1 18 | 23 52 | 0 28 | 23 11 | 0 22 | 18 43 | 3 31 | 5 59 | 6 33 | 6 41 | | n.a. |
| T 17 | 9 20 | 19 35 | 4 19 | 2 34 | 1 39 | 8 16 | 0 50 | 25 28 | 1 48 | 9 43 | 1 39 | 18 49 | 1 17 | 23 52 | 0 28 | 23 11 | 0 22 | 18 43 | 3 31 | 6 1 | 6 35 | 6 44 | | n.a. |
| W18 | 9 42 | 23 33 | 4 49 | 3 27 | 1 31 | 8 46 | 0 48 | 25 26 | 1 48 | 9 44 | 1 39 | 18 50 | 1 17 | 23 52 | 0 28 | 23 11 | 0 22 | 18 44 | 3 31 | 6 4 | 6 36 | 6 47 | | n.a. |
| T 19 | 10 3 | 26 32 | 5 6 | 4 22 | 1 22 | 9 15 | 0 46 | 25 24 | 1 47 | 9 45 | 1 39 | 18 52 | 1 17 | 23 52 | 0 28 | 23 11 | 0 22 | 18 44 | 3 31 | 6 7 | 6 37 | 6 51 | | n.a. |
| F 20 | 10 24 | 28 18 | 5 9 | 5 17 | 1 13 | 9 44 | 0 44 | 25 22 | 1 47 | 9 46 | 1 38 | 18 54 | 1 17 | 23 52 | 0 28 | 23 11 | 0 22 | 18 44 | 3 31 | 6 9 | 6 38 | 6 54 | | n.a. |
| S 21 | 10 45 | 28 39 | 4 57 | 6 13 | 1 4 | 10 12 | 0 42 | 25 20 | 1 46 | 9 47 | 1 38 | 18 55 | 1 17 | 23 52 | 0 28 | 23 11 | 0 22 | 18 45 | 3 31 | 6 11 | 6 40 | 6 58 | | n.a. |
| S 22 | 11 6 | 27 29 | 4 30 | 7 9 | 0 54 | 10 41 | 0 40 | 25 18 | 1 45 | 9 48 | 1 38 | 18 57 | 1 17 | 23 52 | 0 28 | 23 11 | 0 22 | 18 45 | 3 31 | 6 12 | 6 41 | 7 1 | | n.a. |
| M23 | 11 27 | 24 48 | 3 49 | 8 6 | 0 44 | 11 9 | 0 38 | 25 16 | 1 45 | 9 49 | 1 38 | 18 59 | 1 17 | 23 51 | 0 28 | 23 11 | 0 22 | 18 45 | 3 30 | 6 13 | 6 42 | 7 4 | | n.a. |
| T 24 | 11 47 | 20 41 | 2 54 | 9 3 | 0 34 | 11 37 | 0 36 | 25 13 | 1 44 | 9 50 | 1 37 | 19 0 | 1 16 | 23 51 | 0 28 | 23 11 | 0 22 | 18 45 | 3 30 | 6 13 | 6 43 | 7 8 | | n.a. |
| W25 | 12 7 | 15 22 | 1 48 | 10 0 | 0 23 | 12 4 | 0 34 | 25 11 | 1 43 | 9 51 | 1 37 | 19 2 | 1 16 | 23 51 | 0 28 | 23 10 | 0 22 | 18 46 | 3 30 | 6 12 | 6 44 | 7 11 | | n.a. |
| T 26 | 12 27 | 9 5 | 0 33 | 10 56 | 0 13 | 12 32 | 0 31 | 25 8 | 1 43 | 9 51 | 1 37 | 19 4 | 1 16 | 23 51 | 0 28 | 23 10 | 0 22 | 18 46 | 3 30 | 6 12 | 6 46 | 7 14 | | n.a. |
| F 27 | 12 47 | 2 10 | 0s45 | 11 53 | 0 2 | 12 59 | 0 29 | 25 5 | 1 42 | 9 52 | 1 37 | 19 6 | 1 16 | 23 51 | 0 28 | 23 10 | 0 22 | 18 46 | 3 30 | 6 12 | 6 47 | 7 18 | | n.a. |
| S 28 | 13 7 | 5s 0 | 2 3 | 12 48 | 0n 8 | 13 26 | 0 27 | 25 2 | 1 42 | 9 52 | 1 36 | 19 7 | 1 16 | 23 51 | 0 28 | 23 10 | 0 22 | 18 47 | 3 30 | 6 13 | 6 48 | 7 21 | | n.a. |
| S 29 | 13 26 | 11 58 | 3 12 | 13 43 | 0 19 | 13 52 | 0 25 | 24 59 | 1 41 | 9 53 | 1 36 | 19 9 | 1 16 | 23 50 | 0 28 | 23 10 | 0 22 | 18 47 | 3 30 | 6 14 | 6 49 | 7 24 | | n.a. |
| M30 | 13n46 | 18s15 | 4s 8 | 14n37 | 0n29 | 14n18 | 0s22 | 24n56 | 1n40 | 9n53 | 1n36 | 19n11 | 1s16 | 23n50 | 0n28 | 23n10 | 0s22 | 18n47 | 3s30 | 6s17 | 6s51 | 7n28 | | n.a. |

Julian Day Number = 1699598.5, Delta T = 03h06m16s
Ecliptic obliquity = 23°42'18, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°53'19, Lahiri = - 4°46'19 Julian Calendar 1 Apr. 60 BCE == Greg. Calendar 30 March 060 BCE


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# ASTRODIENST EPHEMERIS for the year 60 BCE
# geocentric

## MAY 60 BCE (-59) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 24 49 | 7♉13'51 | 23♏ 7 | 9♉40 | 10♉14 | 11♋17 | 8°R39 | 0♊17 | 9♋24 | 6♋45 | 10♊21 | 14°R 5 | 12♓42 | 12♈52 | n.a. | T 1 |
| W 2 | 14 28 45 | 8°11'13 | 7♐53 | 11°51 | 11°28 | 11°51 | 8♍38 | 0°24 | 9°26 | 6°46 | 10°22 | 13♓57 | 12°39 | 12°59 | n.a. | W 2 |
| T 3 | 14 32 42 | 9° 8'34 | 22°15 | 14° 1 | 12°41 | 12°24 | 8°37 | 0°32 | 9°28 | 6°48 | 10°24 | 13°50 | 12°36 | 13° 5 | n.a. | T 3 |
| F 4 | 14 36 38 | 10° 5'54 | 6♑ 9 | 16°11 | 13°55 | 12°58 | 8°36 | 0°39 | 9°31 | 6°49 | 10°25 | 13°43 | 12°33 | 13°12 | n.a. | F 4 |
| S 5 | 14 40 35 | 11° 3'13 | 19°34 | 18°20 | 15° 9 | 13°31 | 8°35 | 0°47 | 9°33 | 6°51 | 10°26 | 13°39 | 12°30 | 13°19 | n.a. | S 5 |
| S 6 | 14 44 32 | 12° 0'32 | 2♒31 | 20°27 | 16°22 | 14° 5 | 8°35 | 0°55 | 9°35 | 6°52 | 10°27 | 13°37 | 12°26 | 13°25 | n.a. | S 6 |
| M 7 | 14 48 28 | 12°57'50 | 15° 5 | 22°33 | 17°36 | 14°39 | 8°34 | 1° 2 | 9°38 | 6°53 | 10°29 | 13°D37 | 12°23 | 13°32 | n.a. | M 7 |
| T 8 | 14 52 25 | 13°55'07 | 27°19 | 24°37 | 18°50 | 15°13 | 8°D34 | 1°10 | 9°40 | 6°55 | 10°30 | 13°37 | 12°20 | 13°39 | n.a. | T 8 |
| W 9 | 14 56 21 | 14°52'24 | 9♓19 | 26°39 | 20° 3 | 15°47 | 8°34 | 1°17 | 9°43 | 6°56 | 10°32 | 13°R38 | 12°17 | 13°45 | n.a. | W 9 |
| T 10 | 15 0 18 | 15°49'40 | 21°11 | 28°39 | 21°17 | 16°21 | 8°34 | 1°25 | 9°45 | 6°58 | 10°33 | 13°38 | 12°14 | 13°52 | n.a. | T 10 |
| F 11 | 15 4 14 | 16°46'56 | 2♈58 | 0♊37 | 22°31 | 16°55 | 8°35 | 1°33 | 9°48 | 6°59 | 10°34 | 13°36 | 12°11 | 13°59 | n.a. | F 11 |
| S 12 | 15 8 11 | 17°44'11 | 14°45 | 2°33 | 23°44 | 17°29 | 8°35 | 1°40 | 9°50 | 7° 1 | 10°36 | 13°31 | 12° 7 | 14° 5 | n.a. | S 12 |
| S 13 | 15 12 7 | 18°41'26 | 26°36 | 4°26 | 24°58 | 18° 4 | 8°36 | 1°48 | 9°53 | 7° 3 | 10°37 | 13°25 | 12° 4 | 14°12 | n.a. | S 13 |
| M14 | 15 16 4 | 19°38'40 | 8♉33 | 6°17 | 26°12 | 18°38 | 8°37 | 1°56 | 9°55 | 7° 4 | 10°39 | 13°15 | 12° 1 | 14°19 | n.a. | M14 |
| T 15 | 15 20 1 | 20°35'53 | 20°38 | 8° 6 | 27°25 | 19°12 | 8°38 | 2° 4 | 9°58 | 7° 6 | 10°40 | 13° 4 | 11°58 | 14°25 | n.a. | T 15 |
| W16 | 15 23 57 | 21°33'06 | 2♊51 | 9°53 | 28°39 | 19°47 | 8°39 | 2°11 | 10° 1 | 7° 8 | 10°41 | 12°52 | 11°55 | 14°32 | n.a. | W16 |
| T 17 | 15 27 54 | 22°30'19 | 15°15 | 11°36 | 29°52 | 20°21 | 8°41 | 2°19 | 10° 3 | 7° 9 | 10°43 | 12°40 | 11°52 | 14°39 | n.a. | T 17 |
| F 18 | 15 31 50 | 23°27'30 | 27°50 | 13°18 | 1♊ 6 | 20°56 | 8°43 | 2°27 | 10° 6 | 7°11 | 10°44 | 12°29 | 11°48 | 14°45 | n.a. | F 18 |
| S 19 | 15 35 47 | 24°24'41 | 10♋36 | 14°57 | 2°20 | 21°31 | 8°44 | 2°35 | 10° 9 | 7°13 | 10°46 | 12°21 | 11°45 | 14°52 | n.a. | S 19 |
| S 20 | 15 39 43 | 25°21'52 | 23°34 | 16°33 | 3°33 | 22° 6 | 8°46 | 2°43 | 10°12 | 7°14 | 10°47 | 12°15 | 11°42 | 14°59 | n.a. | S 20 |
| M21 | 15 43 40 | 26°19'02 | 6♌47 | 18° 7 | 4°47 | 22°41 | 8°49 | 2°51 | 10°15 | 7°16 | 10°49 | 12°11 | 11°39 | 15° 5 | n.a. | M21 |
| T 22 | 15 47 37 | 27°16'11 | 20°15 | 19°39 | 6° 1 | 23°15 | 8°51 | 2°58 | 10°18 | 7°18 | 10°50 | 12°10 | 11°36 | 15°12 | n.a. | T 22 |
| W23 | 15 51 33 | 28°13'19 | 4♍ 0 | 21° 8 | 7°14 | 23°50 | 8°53 | 3° 6 | 10°21 | 7°20 | 10°52 | 12°10 | 11°32 | 15°19 | n.a. | W23 |
| T 24 | 15 55 30 | 29°10'27 | 18° 3 | 22°34 | 8°28 | 24°26 | 8°56 | 3°14 | 10°24 | 7°22 | 10°53 | 12°10 | 11°29 | 15°25 | n.a. | T 24 |
| F 25 | 15 59 26 | 0♊ 7'34 | 2♎24 | 23°58 | 9°42 | 25° 1 | 8°59 | 3°22 | 10°27 | 7°23 | 10°54 | 12° 8 | 11°26 | 15°32 | n.a. | F 25 |
| S 26 | 16 3 23 | 1° 4'40 | 17° 1 | 25°19 | 10°55 | 25°36 | 9° 2 | 3°30 | 10°30 | 7°25 | 10°56 | 12° 5 | 11°23 | 15°39 | n.a. | S 26 |
| S 27 | 16 7 19 | 2° 1'46 | 1♏50 | 26°38 | 12° 9 | 26°11 | 9° 5 | 3°38 | 10°33 | 7°27 | 10°57 | 11°59 | 11°20 | 15°45 | n.a. | S 27 |
| M28 | 16 11 16 | 2°58'52 | 16°43 | 27°53 | 13°22 | 26°46 | 9° 9 | 3°45 | 10°36 | 7°29 | 10°59 | 11°51 | 11°17 | 15°52 | n.a. | M28 |
| T 29 | 16 15 12 | 3°55'57 | 1♐33 | 29° 6 | 14°36 | 27°22 | 9°12 | 3°53 | 10°39 | 7°31 | 11° 0 | 11°40 | 11°13 | 15°59 | n.a. | T 29 |
| W30 | 16 19 9 | 4°53'03 | 16°11 | 0♋17 | 15°50 | 27°57 | 9°16 | 4° 1 | 10°42 | 7°33 | 11° 2 | 11°29 | 11°10 | 16° 5 | n.a. | W30 |
| T 31 | 16 23 6 | 5♊50'08 | 0♑29 | 1♋24 | 17♊ 3 | 28♋33 | 9♍20 | 4♊ 9 | 10♋45 | 7♋35 | 11♊ 3 | 11♓19 | 11♓ 7 | 16♈12 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| T 1 | 14n 5 | 23s22 | 4s46 | 15n29 | 0n39 | 14n44 | 0s20 | 24n53 | 1n40 | 9n53 | 1n36 | 19n12 | 1s15 | 23n50 | 0n28 | 23n10 | 0s22 | 18n47 | 3s30 | 6s20 | 6s52 | 7n31 | | | n.a. |
| W 2 | 14 23 | 26 52 | 5 4 | 16 20 | 0 49 | 15 9 | 0 18 | 24 49 | 1 39 | 9 54 | 1 35 | 19 14 | 1 15 | 23 50 | 0 28 | 23 10 | 0 22 | 18 48 | 3 30 | 6 23 | 6 53 | 7 34 | | | n.a. |
| T 3 | 14 42 | 28 31 | 5 3 | 17 9 | 0 59 | 15 34 | 0 16 | 24 45 | 1 39 | 9 54 | 1 35 | 19 16 | 1 15 | 23 50 | 0 28 | 23 10 | 0 22 | 18 48 | 3 29 | 6 26 | 6 54 | 7 38 | | | n.a. |
| F 4 | 15 0 | 28 16 | 4 43 | 17 57 | 1 8 | 15 59 | 0 13 | 24 41 | 1 38 | 9 54 | 1 35 | 19 17 | 1 15 | 23 50 | 0 28 | 23 10 | 0 22 | 18 48 | 3 29 | 6 28 | 6 56 | 7 41 | | | n.a. |
| S 5 | 15 19 | 26 21 | 4 8 | 18 42 | 1 16 | 16 23 | 0 11 | 24 37 | 1 37 | 9 54 | 1 35 | 19 19 | 1 15 | 23 49 | 0 28 | 23 10 | 0 22 | 18 49 | 3 29 | 6 30 | 6 57 | 7 44 | | | n.a. |
| S 6 | 15 36 | 23 5 | 3 22 | 19 25 | 1 24 | 16 47 | 0 8 | 24 33 | 1 37 | 9 54 | 1 34 | 19 21 | 1 15 | 23 49 | 0 28 | 23 10 | 0 21 | 18 49 | 3 29 | 6 31 | 6 58 | 7 48 | | | n.a. |
| M 7 | 15 54 | 18 50 | 2 27 | 20 5 | 1 32 | 17 10 | 0 6 | 24 29 | 1 36 | 9 54 | 1 34 | 19 23 | 1 15 | 23 49 | 0 28 | 23 10 | 0 21 | 18 49 | 3 29 | 6 31 | 6 59 | 7 51 | | | n.a. |
| T 8 | 16 12 | 13 53 | 1 26 | 20 43 | 1 38 | 17 33 | 0 4 | 24 24 | 1 36 | 9 54 | 1 34 | 19 24 | 1 15 | 23 49 | 0 28 | 23 10 | 0 21 | 18 49 | 3 29 | 6 31 | 7 0 | 7 54 | | | n.a. |
| W 9 | 16 29 | 8 31 | 0 23 | 21 19 | 1 44 | 17 56 | 0 1 | 24 20 | 1 35 | 9 53 | 1 33 | 19 26 | 1 15 | 23 49 | 0 28 | 23 10 | 0 21 | 18 50 | 3 29 | 6 30 | 7 2 | 7 58 | | | n.a. |
| T 10 | 16 46 | 2 55 | 0n40 | 21 52 | 1 50 | 18 18 | 0n 1 | 24 15 | 1 34 | 9 53 | 1 33 | 19 28 | 1 14 | 23 48 | 0 28 | 23 10 | 0 21 | 18 50 | 3 29 | 6 30 | 7 3 | 8 1 | | | n.a. |
| F 11 | 17 2 | 2n44 | 1 41 | 22 22 | 1 55 | 18 39 | 0 3 | 24 10 | 1 34 | 9 53 | 1 33 | 19 29 | 1 14 | 23 48 | 0 28 | 23 10 | 0 21 | 18 50 | 3 29 | 6 31 | 7 4 | 8 4 | | | n.a. |
| S 12 | 17 19 | 8 18 | 2 38 | 22 50 | 1 59 | 19 0 | 0 6 | 24 5 | 1 33 | 9 52 | 1 33 | 19 31 | 1 14 | 23 48 | 0 28 | 23 10 | 0 21 | 18 50 | 3 29 | 6 33 | 7 5 | 8 8 | | | n.a. |
| S 13 | 17 35 | 13 36 | 3 28 | 23 16 | 2 2 | 19 21 | 0 8 | 24 0 | 1 33 | 9 52 | 1 32 | 19 33 | 1 14 | 23 48 | 0 28 | 23 10 | 0 21 | 18 51 | 3 29 | 6 35 | 7 7 | 8 11 | | | n.a. |
| M14 | 17 50 | 18 26 | 4 9 | 23 39 | 2 5 | 19 41 | 0 11 | 23 55 | 1 32 | 9 51 | 1 32 | 19 34 | 1 14 | 23 48 | 0 28 | 23 10 | 0 21 | 18 51 | 3 28 | 6 39 | 7 8 | 8 14 | | | n.a. |
| T 15 | 18 6 | 22 35 | 4 39 | 23 59 | 2 6 | 20 1 | 0 13 | 23 49 | 1 31 | 9 50 | 1 32 | 19 36 | 1 14 | 23 47 | 0 28 | 23 9 | 0 21 | 18 51 | 3 28 | 6 43 | 7 9 | 8 17 | | | n.a. |
| W16 | 18 21 | 25 49 | 4 57 | 24 17 | 2 8 | 20 20 | 0 15 | 23 43 | 1 31 | 9 50 | 1 32 | 19 38 | 1 14 | 23 47 | 0 28 | 23 9 | 0 21 | 18 52 | 3 28 | 6 48 | 7 10 | 8 21 | | | n.a. |
| T 17 | 18 36 | 27 52 | 5 2 | 24 32 | 2 8 | 20 38 | 0 18 | 23 38 | 1 30 | 9 49 | 1 31 | 19 39 | 1 14 | 23 47 | 0 28 | 23 9 | 0 21 | 18 52 | 3 28 | 6 53 | 7 11 | 8 24 | | | n.a. |
| F 18 | 18 51 | 28 32 | 4 51 | 24 46 | 2 8 | 20 56 | 0 20 | 23 32 | 1 30 | 9 48 | 1 31 | 19 41 | 1 14 | 23 47 | 0 28 | 23 9 | 0 21 | 18 52 | 3 28 | 6 57 | 7 13 | 8 27 | | | n.a. |
| S 19 | 19 5 | 27 42 | 4 26 | 24 57 | 2 7 | 21 13 | 0 22 | 23 26 | 1 29 | 9 47 | 1 31 | 19 42 | 1 13 | 23 47 | 0 28 | 23 9 | 0 21 | 18 52 | 3 28 | 7 0 | 7 14 | 8 31 | | | n.a. |
| S 20 | 19 19 | 25 21 | 3 48 | 25 5 | 2 5 | 21 30 | 0 25 | 23 19 | 1 28 | 9 46 | 1 31 | 19 44 | 1 13 | 23 46 | 0 28 | 23 9 | 0 21 | 18 53 | 3 28 | 7 3 | 7 15 | 8 34 | | | n.a. |
| M21 | 19 33 | 21 37 | 2 56 | 25 12 | 2 3 | 21 46 | 0 27 | 23 13 | 1 28 | 9 45 | 1 30 | 19 46 | 1 13 | 23 46 | 0 28 | 23 9 | 0 21 | 18 53 | 3 28 | 7 4 | 7 16 | 8 37 | | | n.a. |
| T 22 | 19 46 | 16 41 | 1 53 | 25 17 | 2 0 | 22 2 | 0 29 | 23 6 | 1 27 | 9 44 | 1 30 | 19 47 | 1 13 | 23 46 | 0 28 | 23 9 | 0 21 | 18 53 | 3 28 | 7 4 | 7 18 | 8 41 | | | n.a. |
| W23 | 19 59 | 10 49 | 0 43 | 25 20 | 1 56 | 22 17 | 0 32 | 23 0 | 1 27 | 9 43 | 1 30 | 19 49 | 1 13 | 23 46 | 0 28 | 23 9 | 0 21 | 18 54 | 3 28 | 7 5 | 7 19 | 8 44 | | | n.a. |
| T 24 | 20 12 | 4 18 | 0s31 | 25 21 | 1 51 | 22 31 | 0 34 | 22 53 | 1 26 | 9 41 | 1 29 | 19 50 | 1 13 | 23 45 | 0 28 | 23 9 | 0 21 | 18 54 | 3 28 | 7 5 | 7 20 | 8 47 | | | n.a. |
| F 25 | 20 24 | 2s34 | 1 45 | 25 20 | 1 46 | 22 45 | 0 36 | 22 46 | 1 25 | 9 40 | 1 29 | 19 52 | 1 13 | 23 45 | 0 28 | 23 9 | 0 21 | 18 54 | 3 28 | 7 5 | 7 21 | 8 50 | | | n.a. |
| S 26 | 20 36 | 9 25 | 2 53 | 25 18 | 1 41 | 22 58 | 0 38 | 22 39 | 1 25 | 9 39 | 1 29 | 19 54 | 1 13 | 23 45 | 0 28 | 23 9 | 0 21 | 18 54 | 3 28 | 7 6 | 7 22 | 8 54 | | | n.a. |
| S 27 | 20 48 | 15 50 | 3 51 | 25 14 | 1 34 | 23 10 | 0 41 | 22 32 | 1 24 | 9 37 | 1 29 | 19 55 | 1 13 | 23 45 | 0 28 | 23 9 | 0 21 | 18 55 | 3 27 | 7 8 | 7 24 | 8 57 | | | n.a. |
| M28 | 20 59 | 21 22 | 4 33 | 25 8 | 1 27 | 23 22 | 0 43 | 22 24 | 1 24 | 9 36 | 1 28 | 19 57 | 1 13 | 23 44 | 0 28 | 23 8 | 0 21 | 18 55 | 3 27 | 7 12 | 7 25 | 9 0 | | | n.a. |
| T 29 | 21 10 | 25 32 | 4 56 | 25 2 | 1 20 | 23 33 | 0 45 | 22 17 | 1 23 | 9 34 | 1 28 | 19 58 | 1 13 | 23 44 | 0 28 | 23 8 | 0 21 | 18 55 | 3 27 | 7 16 | 7 26 | 9 4 | | | n.a. |
| W30 | 21 21 | 27 57 | 5 0 | 24 54 | 1 11 | 23 43 | 0 47 | 22 9 | 1 22 | 9 32 | 1 28 | 20 0 | 1 13 | 23 44 | 0 28 | 23 8 | 0 21 | 18 55 | 3 27 | 7 20 | 7 27 | 9 7 | | | n.a. |
| T 31 | 21n31 | 28s26 | 4s44 | 24n45 | 1n 3 | 23n53 | 0n49 | 22n 1 | 1n22 | 9n31 | 1n28 | 20n 1 | 1s12 | 23n44 | 0n28 | 23n 8 | 0s21 | 18n56 | 3s27 | 7s24 | 7s29 | 9n10 | | | n.a. |

Julian Day Number = 1699628.5, Delta T = 03h06m15s
Ecliptic obliquity = 23°42'17, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°53'15, Lahiri = - 4°46'15 Julian Calendar 1 May 60 BCE == Greg. Calendar 29 Apr. 060 BCE

The year -59 astronomical counting style corresponds to year 060 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 60 BCE
# geocentric

## JUNE 60 BCE (-59) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 16 27 2 | 6♊47'14 | 14♉22 | 2♋28 | 18♊17 | 29♋ 8 | 9♍24 | 4♊17 | 10♋48 | 7♋37 | 11♊ 5 | 11°R10 | 11♓ 4 | 16♈19 | n.a. | F 1 |
| S 2 | 16 30 59 | 7°44'19 | 27°48 | 3°29 | 19°30 | 29°44 | 9°28 | 4°25 | 10°52 | 7°39 | 11° 6 | 11♓ 3 | 11° 1 | 16°25 | n.a. | S 2 |
| S 3 | 16 34 55 | 8°41'25 | 10♒48 | 4°28 | 20°44 | 0♌20 | 9°32 | 4°33 | 10°55 | 7°41 | 11° 8 | 10°59 | 10°58 | 16°32 | n.a. | S 3 |
| M 4 | 16 38 52 | 9°38'31 | 23°23 | 5°22 | 21°57 | 0°55 | 9°37 | 4°40 | 10°58 | 7°43 | 11° 9 | 10°57 | 10°54 | 16°39 | n.a. | M 4 |
| T 5 | 16 42 48 | 10°35'38 | 5♓39 | 6°14 | 23°11 | 1°31 | 9°41 | 4°48 | 11° 1 | 7°45 | 11°11 | 10°56 | 10°51 | 16°45 | n.a. | T 5 |
| W 6 | 16 46 45 | 11°32'44 | 17°40 | 7° 2 | 24°25 | 2° 7 | 9°46 | 4°56 | 11° 5 | 7°47 | 11°12 | 10°56 | 10°48 | 16°52 | n.a. | W 6 |
| T 7 | 16 50 41 | 12°29'51 | 29°33 | 7°47 | 25°38 | 2°43 | 9°51 | 5° 4 | 11° 8 | 7°49 | 11°14 | 10°55 | 10°45 | 16°59 | n.a. | T 7 |
| F 8 | 16 54 38 | 13°26'59 | 11♈21 | 8°27 | 26°52 | 3°19 | 9°56 | 5°12 | 11°11 | 7°51 | 11°15 | 10°53 | 10°42 | 17° 5 | n.a. | F 8 |
| S 9 | 16 58 35 | 14°24'07 | 23°11 | 9° 4 | 28° 5 | 3°55 | 10° 1 | 5°20 | 11°15 | 7°53 | 11°17 | 10°49 | 10°38 | 17°12 | n.a. | S 9 |
| S 10 | 17 2 31 | 15°21'15 | 5♉ 6 | 9°37 | 29°19 | 4°31 | 10° 7 | 5°27 | 11°18 | 7°55 | 11°18 | 10°41 | 10°35 | 17°19 | n.a. | S 10 |
| M11 | 17 6 28 | 16°18'24 | 17° 9 | 10° 6 | 0♋33 | 5° 7 | 10°12 | 5°35 | 11°22 | 7°57 | 11°20 | 10°31 | 10°32 | 17°25 | n.a. | M11 |
| T 12 | 17 10 24 | 17°15'33 | 29°24 | 10°31 | 1°46 | 5°44 | 10°18 | 5°43 | 11°25 | 7°59 | 11°21 | 10°20 | 10°29 | 17°32 | n.a. | T 12 |
| W13 | 17 14 21 | 18°12'43 | 11♊51 | 10°51 | 3° 0 | 6°20 | 10°24 | 5°51 | 11°29 | 8° 1 | 11°23 | 10° 7 | 10°26 | 17°39 | n.a. | W13 |
| T 14 | 17 18 17 | 19° 9'53 | 24°31 | 11° 7 | 4°13 | 6°56 | 10°30 | 5°58 | 11°32 | 8° 3 | 11°24 | 9°54 | 10°23 | 17°45 | n.a. | T 14 |
| F 15 | 17 22 14 | 20° 7'04 | 7♋24 | 11°18 | 5°27 | 7°33 | 10°36 | 6° 6 | 11°36 | 8° 6 | 11°26 | 9°42 | 10°19 | 17°52 | n.a. | F 15 |
| S 16 | 17 26 11 | 21° 4'15 | 20°29 | 11°24 | 6°40 | 8° 9 | 10°42 | 6°14 | 11°39 | 8° 8 | 11°27 | 9°33 | 10°16 | 17°59 | n.a. | S 16 |
| S 17 | 17 30 7 | 22° 1'26 | 3♌45 | 11°R25 | 7°54 | 8°46 | 10°49 | 6°22 | 11°43 | 8°10 | 11°29 | 9°26 | 10°13 | 18° 5 | n.a. | S 17 |
| M18 | 17 34 4 | 22°58'38 | 17°12 | 11°22 | 9° 8 | 9°23 | 10°55 | 6°29 | 11°46 | 8°12 | 11°30 | 9°22 | 10°10 | 18°12 | n.a. | M18 |
| T 19 | 17 38 0 | 23°55'50 | 0♍50 | 11°14 | 10°21 | 9°59 | 11° 2 | 6°37 | 11°50 | 8°14 | 11°32 | 9°21 | 10° 7 | 18°19 | n.a. | T 19 |
| W20 | 17 41 57 | 24°53'02 | 14°39 | 11° 1 | 11°35 | 10°36 | 11° 9 | 6°44 | 11°53 | 8°16 | 11°33 | 9°D20 | 10° 4 | 18°26 | n.a. | W20 |
| T 21 | 17 45 53 | 25°50'14 | 28°39 | 10°43 | 12°48 | 11°13 | 11°16 | 6°52 | 11°57 | 8°19 | 11°35 | 9°R21 | 10° 0 | 18°32 | n.a. | T 21 |
| F 22 | 17 49 50 | 26°47'27 | 12♎49 | 10°21 | 14° 2 | 11°50 | 11°23 | 7° 0 | 12° 0 | 8°21 | 11°36 | 9°20 | 9°57 | 18°39 | n.a. | F 22 |
| S 23 | 17 53 46 | 27°44'40 | 27°10 | 9°54 | 15°15 | 12°27 | 11°30 | 7° 7 | 12° 4 | 8°23 | 11°38 | 9°17 | 9°54 | 18°46 | n.a. | S 23 |
| S 24 | 17 57 43 | 28°41'53 | 11♏37 | 9°23 | 16°29 | 13° 4 | 11°37 | 7°15 | 12° 8 | 8°25 | 11°39 | 9°12 | 9°51 | 18°52 | n.a. | S 24 |
| M25 | 18 1 40 | 29°39'08 | 26° 6 | 8°49 | 17°42 | 13°41 | 11°45 | 7°22 | 12°11 | 8°27 | 11°41 | 9° 4 | 9°48 | 18°59 | n.a. | M25 |
| T 26 | 18 5 36 | 0♋36'22 | 10♐32 | 8°11 | 18°56 | 14°18 | 11°52 | 7°30 | 12°15 | 8°30 | 11°42 | 8°54 | 9°44 | 19° 6 | n.a. | T 26 |
| W27 | 18 9 33 | 1°33'38 | 24°49 | 7°31 | 20° 9 | 14°55 | 12° 0 | 7°37 | 12°19 | 8°32 | 11°43 | 8°44 | 9°41 | 19°12 | n.a. | W27 |
| T 28 | 18 13 29 | 2°30'54 | 8♑50 | 6°49 | 21°23 | 15°32 | 12° 8 | 7°44 | 12°22 | 8°34 | 11°45 | 8°34 | 9°38 | 19°19 | n.a. | T 28 |
| F 29 | 18 17 26 | 3°28'11 | 22°32 | 6° 6 | 22°36 | 16° 9 | 12°16 | 7°52 | 12°26 | 8°36 | 11°46 | 8°26 | 9°35 | 19°26 | n.a. | F 29 |
| S 30 | 18 21 22 | 4♋25'29 | 5♒51 | 5♋21 | 23♋50 | 16♌47 | 12♍24 | 7♊59 | 12♋30 | 8♋38 | 11♊48 | 8♓19 | 9♓32 | 19♈32 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 21n41 | 27s 6 | 4s12 | 24n34 | 0n53 | 24n 2 | 0n51 | 21n53 | 1n21 | 9n29 | 1n27 | 20n 3 | 1s12 | 23n43 | 0n28 | 23n 8 | 0s21 | 18n56 | 3s27 | 7s28 | 7s30 | 9n13 | | n.a. |
| S 2 | 21 51 | 24 13 | 3 27 | 24 23 | 0 43 | 24 10 | 0 53 | 21 45 | 1 21 | 9 27 | 1 27 | 20 5 | 1 12 | 23 43 | 0 28 | 23 8 | 0 21 | 18 56 | 3 27 | 7 30 | 7 31 | 9 17 | | n.a. |
| S 3 | 22 0 | 20 9 | 2 32 | 24 11 | 0 33 | 24 18 | 0 55 | 21 36 | 1 20 | 9 25 | 1 27 | 20 6 | 1 12 | 23 43 | 0 28 | 23 8 | 0 21 | 18 57 | 3 27 | 7 32 | 7 32 | 9 20 | | n.a. |
| M 4 | 22 9 | 15 19 | 1 32 | 23 58 | 0 22 | 24 24 | 0 57 | 21 28 | 1 20 | 9 23 | 1 27 | 20 8 | 1 12 | 23 42 | 0 28 | 23 8 | 0 21 | 18 57 | 3 27 | 7 33 | 7 33 | 9 23 | | n.a. |
| T 5 | 22 17 | 9 58 | 0 28 | 23 44 | 0 11 | 24 31 | 0 59 | 21 19 | 1 19 | 9 21 | 1 26 | 20 9 | 1 12 | 23 42 | 0 28 | 23 8 | 0 21 | 18 57 | 3 27 | 7 33 | 7 35 | 9 26 | | n.a. |
| W 6 | 22 25 | 4 23 | 0n36 | 23 30 | 0s 1 | 24 36 | 1 1 | 21 11 | 1 18 | 9 19 | 1 26 | 20 11 | 1 12 | 23 42 | 0 28 | 23 8 | 0 21 | 18 57 | 3 27 | 7 33 | 7 36 | 9 30 | | n.a. |
| T 7 | 22 33 | 1n18 | 1 37 | 23 15 | 0 14 | 24 41 | 1 3 | 21 2 | 1 18 | 9 17 | 1 26 | 20 12 | 1 12 | 23 42 | 0 28 | 23 7 | 0 21 | 18 58 | 3 27 | 7 33 | 7 37 | 9 33 | | n.a. |
| F 8 | 22 40 | 6 53 | 2 34 | 22 59 | 0 27 | 24 45 | 1 5 | 20 53 | 1 17 | 9 15 | 1 26 | 20 13 | 1 12 | 23 41 | 0 28 | 23 7 | 0 21 | 18 58 | 3 27 | 7 34 | 7 38 | 9 36 | | n.a. |
| S 9 | 22 47 | 12 15 | 3 24 | 22 44 | 0 40 | 24 48 | 1 6 | 20 44 | 1 17 | 9 13 | 1 25 | 20 15 | 1 12 | 23 41 | 0 28 | 23 7 | 0 21 | 18 58 | 3 27 | 7 36 | 7 39 | 9 39 | | n.a. |
| S 10 | 22 53 | 17 12 | 4 5 | 22 28 | 0 53 | 24 50 | 1 8 | 20 34 | 1 16 | 9 10 | 1 25 | 20 16 | 1 12 | 23 41 | 0 28 | 23 7 | 0 21 | 18 58 | 3 27 | 7 38 | 7 41 | 9 43 | | n.a. |
| M11 | 22 59 | 21 33 | 4 36 | 22 12 | 1 7 | 24 52 | 1 10 | 20 25 | 1 15 | 9 8 | 1 25 | 20 18 | 1 12 | 23 40 | 0 28 | 23 7 | 0 21 | 18 59 | 3 27 | 7 42 | 7 42 | 9 46 | | n.a. |
| T 12 | 23 5 | 25 2 | 4 55 | 21 56 | 1 22 | 24 53 | 1 11 | 20 15 | 1 15 | 9 5 | 1 25 | 20 19 | 1 12 | 23 40 | 0 28 | 23 7 | 0 21 | 18 59 | 3 27 | 7 47 | 7 43 | 9 49 | | n.a. |
| W13 | 23 11 | 27 25 | 5 0 | 21 39 | 1 36 | 24 53 | 1 13 | 20 6 | 1 14 | 9 3 | 1 24 | 20 21 | 1 12 | 23 40 | 0 28 | 23 7 | 0 21 | 18 59 | 3 27 | 7 52 | 7 44 | 9 52 | | n.a. |
| T 14 | 23 15 | 28 26 | 4 51 | 21 24 | 1 51 | 24 52 | 1 14 | 19 56 | 1 14 | 9 1 | 1 24 | 20 22 | 1 12 | 23 40 | 0 28 | 23 7 | 0 21 | 18 59 | 3 26 | 7 57 | 7 46 | 9 56 | | n.a. |
| F 15 | 23 20 | 27 56 | 4 26 | 21 8 | 2 6 | 24 51 | 1 16 | 19 46 | 1 13 | 8 58 | 1 24 | 20 23 | 1 12 | 23 39 | 0 28 | 23 7 | 0 21 | 19 0 | 3 26 | 8 1 | 7 47 | 9 59 | | n.a. |
| S 16 | 23 24 | 25 53 | 3 48 | 20 53 | 2 20 | 24 49 | 1 17 | 19 36 | 1 13 | 8 55 | 1 24 | 20 25 | 1 11 | 23 39 | 0 28 | 23 6 | 0 21 | 19 0 | 3 26 | 8 5 | 7 48 | 10 2 | | n.a. |
| S 17 | 23 28 | 22 23 | 2 56 | 20 38 | 2 35 | 24 46 | 1 19 | 19 25 | 1 12 | 8 53 | 1 23 | 20 26 | 1 11 | 23 39 | 0 28 | 23 6 | 0 21 | 19 0 | 3 26 | 8 7 | 7 49 | 10 5 | | n.a. |
| M18 | 23 31 | 17 40 | 1 54 | 20 24 | 2 50 | 24 43 | 1 20 | 19 15 | 1 11 | 8 50 | 1 23 | 20 28 | 1 11 | 23 38 | 0 28 | 23 6 | 0 21 | 19 0 | 3 26 | 8 9 | 7 50 | 10 9 | | n.a. |
| T 19 | 23 34 | 12 0 | 0 45 | 20 10 | 3 4 | 24 39 | 1 21 | 19 5 | 1 11 | 8 47 | 1 23 | 20 29 | 1 11 | 23 38 | 0 28 | 23 6 | 0 21 | 19 1 | 3 26 | 8 9 | 7 52 | 10 12 | | n.a. |
| W20 | 23 36 | 5 41 | 0s28 | 19 57 | 3 18 | 24 34 | 1 22 | 18 54 | 1 10 | 8 44 | 1 23 | 20 30 | 1 11 | 23 38 | 0 28 | 23 6 | 0 21 | 19 1 | 3 26 | 8 9 | 7 53 | 10 15 | | n.a. |
| T 21 | 23 38 | 0s59 | 1 41 | 19 46 | 3 31 | 24 28 | 1 23 | 18 43 | 1 10 | 8 41 | 1 23 | 20 32 | 1 11 | 23 37 | 0 28 | 23 6 | 0 21 | 19 1 | 3 26 | 8 9 | 7 54 | 10 18 | | n.a. |
| F 22 | 23 40 | 7 41 | 2 48 | 19 35 | 3 44 | 24 21 | 1 24 | 18 32 | 1 9 | 8 38 | 1 22 | 20 33 | 1 11 | 23 37 | 0 28 | 23 6 | 0 21 | 19 1 | 3 26 | 8 10 | 7 55 | 10 22 | | n.a. |
| S 23 | 23 41 | 14 4 | 3 45 | 19 25 | 3 56 | 24 14 | 1 26 | 18 21 | 1 8 | 8 35 | 1 22 | 20 34 | 1 11 | 23 37 | 0 28 | 23 6 | 0 21 | 19 1 | 3 26 | 8 11 | 7 56 | 10 25 | | n.a. |
| S 24 | 23 42 | 19 44 | 4 28 | 19 16 | 4 7 | 24 6 | 1 26 | 18 10 | 1 8 | 8 32 | 1 22 | 20 35 | 1 11 | 23 36 | 0 28 | 23 5 | 0 21 | 19 2 | 3 26 | 8 13 | 7 58 | 10 28 | | n.a. |
| M25 | 23 42 | 24 16 | 4 55 | 19 9 | 4 16 | 23 58 | 1 27 | 17 59 | 1 7 | 8 29 | 1 22 | 20 37 | 1 11 | 23 36 | 0 28 | 23 5 | 0 21 | 19 2 | 3 26 | 8 16 | 7 59 | 10 31 | | n.a. |
| T 26 | 23 42 | 27 15 | 5 2 | 19 2 | 4 25 | 23 48 | 1 28 | 17 47 | 1 7 | 8 26 | 1 21 | 20 38 | 1 11 | 23 36 | 0 28 | 23 5 | 0 21 | 19 2 | 3 26 | 8 19 | 8 0 | 10 34 | | n.a. |
| W27 | 23 42 | 28 27 | 4 51 | 18 58 | 4 32 | 23 38 | 1 29 | 17 36 | 1 6 | 8 23 | 1 21 | 20 39 | 1 11 | 23 35 | 0 28 | 23 5 | 0 21 | 19 2 | 3 26 | 8 23 | 8 1 | 10 38 | | n.a. |
| T 28 | 23 41 | 27 45 | 4 22 | 18 54 | 4 38 | 23 28 | 1 30 | 17 24 | 1 6 | 8 20 | 1 21 | 20 41 | 1 11 | 23 35 | 0 28 | 23 5 | 0 21 | 19 3 | 3 26 | 8 27 | 8 3 | 10 41 | | n.a. |
| F 29 | 23 39 | 25 23 | 3 38 | 18 52 | 4 42 | 23 16 | 1 30 | 17 12 | 1 5 | 8 17 | 1 21 | 20 42 | 1 11 | 23 35 | 0 28 | 23 5 | 0 21 | 19 3 | 3 26 | 8 30 | 8 4 | 10 44 | | n.a. |
| S 30 | 23n38 | 21s40 | 2s44 | 18n52 | 4s44 | 23n 4 | 1n31 | 17n 0 | 1n 4 | 8n13 | 1n21 | 20n43 | 1s11 | 23n34 | 0n28 | 23n 5 | 0s21 | 19n 3 | 3s26 | 8s32 | 8s 5 | 10n47 | | n.a. |

Julian Day Number = 1699659.5, Delta T = 03h06m14s
Ecliptic obliquity = 23°42'16, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°53'11, Lahiri = - 4°46'11 Julian Calendar 1 June 60 BCE == Greg. Calendar 30 May 060 BCE

The year -59 astronomical counting style corresponds to year 060 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 60 BCE
# geocentric

## JULY 60 BCE (-59) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 25 19 | 5♋22'48 | 18♒46 | 4°R38 | 25♋ 3 | 17♌24 | 12♍32 | 8♊ 7 | 12♋33 | 8♋41 | 11♊49 | 8°R15 | 9♓29 | 19♈39 | n.a. | S 1 |
| M 2 | 18 29 16 | 6°20'08 | 1♓21 | 3♋55 | 26°17 | 18° 1 | 12°40 | 8°14 | 12°37 | 8°43 | 11°51 | 8♓13 | 9°25 | 19°46 | n.a. | M 2 |
| T 3 | 18 33 12 | 7°17'30 | 13°37 | 3°14 | 27°30 | 18°39 | 12°49 | 8°21 | 12°41 | 8°45 | 11°52 | 8°D13 | 9°22 | 19°52 | n.a. | T 3 |
| W 4 | 18 37 9 | 8°14'52 | 25°40 | 2°35 | 28°44 | 19°16 | 12°57 | 8°28 | 12°44 | 8°47 | 11°53 | 8°14 | 9°19 | 19°59 | n.a. | W 4 |
| T 5 | 18 41 5 | 9°12'16 | 7♈33 | 2° 0 | 29°57 | 19°54 | 13° 6 | 8°35 | 12°48 | 8°50 | 11°55 | 8°R15 | 9°16 | 20° 6 | n.a. | T 5 |
| F 6 | 18 45 2 | 10° 9'41 | 19°24 | 1°29 | 1♌11 | 20°32 | 13°15 | 8°43 | 12°52 | 8°52 | 11°56 | 8°14 | 9°13 | 20°12 | n.a. | F 6 |
| S 7 | 18 48 58 | 11° 7'08 | 1♉15 | 1° 3 | 2°24 | 21° 9 | 13°24 | 8°50 | 12°55 | 8°54 | 11°57 | 8°12 | 9°10 | 20°19 | n.a. | S 7 |
| S 8 | 18 52 55 | 12° 4'36 | 13°14 | 0°42 | 3°38 | 21°47 | 13°33 | 8°57 | 12°59 | 8°56 | 11°59 | 8° 8 | 9° 6 | 20°26 | n.a. | S 8 |
| M 9 | 18 56 51 | 13° 2'06 | 25°22 | 0°26 | 4°51 | 22°25 | 13°42 | 9° 4 | 13° 3 | 8°59 | 12° 0 | 8° 1 | 9° 3 | 20°32 | n.a. | M 9 |
| T 10 | 19 0 48 | 13°59'36 | 7♊45 | 0°17 | 6° 4 | 23° 3 | 13°51 | 9°11 | 13° 6 | 9° 1 | 12° 1 | 7°53 | 9° 0 | 20°39 | n.a. | T 10 |
| W11 | 19 4 45 | 14°57'09 | 20°24 | 0°D14 | 7°18 | 23°41 | 14° 0 | 9°18 | 13°10 | 9° 3 | 12° 3 | 7°44 | 8°57 | 20°46 | n.a. | W11 |
| T 12 | 19 8 41 | 15°54'42 | 3♋19 | 0°18 | 8°31 | 24°19 | 14°10 | 9°24 | 13°14 | 9° 5 | 12° 4 | 7°35 | 8°54 | 20°52 | n.a. | T 12 |
| F 13 | 19 12 38 | 16°52'18 | 16°31 | 0°29 | 9°45 | 24°57 | 14°19 | 9°31 | 13°18 | 9° 7 | 12° 5 | 7°26 | 8°50 | 20°59 | n.a. | F 13 |
| S 14 | 19 16 34 | 17°49'54 | 29°58 | 0°47 | 10°58 | 25°35 | 14°29 | 9°38 | 13°21 | 9°10 | 12° 6 | 7°20 | 8°47 | 21° 6 | n.a. | S 14 |
| S 15 | 19 20 31 | 18°47'31 | 13♌38 | 1°12 | 12°12 | 26°13 | 14°38 | 9°45 | 13°25 | 9°12 | 12° 8 | 7°15 | 8°44 | 21°13 | n.a. | S 15 |
| M16 | 19 24 27 | 19°45'10 | 27°28 | 1°43 | 13°25 | 26°51 | 14°48 | 9°51 | 13°29 | 9°14 | 12° 9 | 7°13 | 8°41 | 21°19 | n.a. | M16 |
| T 17 | 19 28 24 | 20°42'50 | 11♍26 | 2°22 | 14°38 | 27°30 | 14°58 | 9°58 | 13°32 | 9°16 | 12°10 | 7°D13 | 8°38 | 21°26 | n.a. | T 17 |
| W18 | 19 32 20 | 21°40'31 | 25°30 | 3° 8 | 15°52 | 28° 8 | 15° 8 | 10° 5 | 13°36 | 9°18 | 12°11 | 7°14 | 8°35 | 21°33 | n.a. | W18 |
| T 19 | 19 36 17 | 22°38'13 | 9♎37 | 4° 1 | 17° 5 | 28°46 | 15°18 | 10°11 | 13°40 | 9°21 | 12°13 | 7°15 | 8°31 | 21°39 | n.a. | T 19 |
| F 20 | 19 40 14 | 23°35'56 | 23°48 | 5° 0 | 18°18 | 29°25 | 15°28 | 10°18 | 13°43 | 9°23 | 12°14 | 7°R15 | 8°28 | 21°46 | n.a. | F 20 |
| S 21 | 19 44 10 | 24°33'41 | 7♏59 | 6° 6 | 19°32 | 0♍ 3 | 15°39 | 10°24 | 13°47 | 9°25 | 12°15 | 7°15 | 8°25 | 21°53 | n.a. | S 21 |
| S 22 | 19 48 7 | 25°31'27 | 22° 8 | 7°17 | 20°45 | 0°42 | 15°49 | 10°30 | 13°51 | 9°27 | 12°16 | 7°12 | 8°22 | 21°59 | n.a. | S 22 |
| M23 | 19 52 3 | 26°29'14 | 6♐15 | 8°35 | 21°58 | 1°21 | 15°59 | 10°37 | 13°54 | 9°29 | 12°17 | 7° 8 | 8°19 | 22° 6 | n.a. | M23 |
| T 24 | 19 56 0 | 27°27'02 | 20°14 | 9°58 | 23°11 | 1°59 | 16°10 | 10°43 | 13°58 | 9°31 | 12°18 | 7° 2 | 8°16 | 22°13 | n.a. | T 24 |
| W25 | 19 59 56 | 28°24'52 | 4♑ 4 | 11°26 | 24°25 | 2°38 | 16°20 | 10°49 | 14° 2 | 9°34 | 12°20 | 6°56 | 8°12 | 22°19 | n.a. | W25 |
| T 26 | 20 3 53 | 29°22'43 | 17°41 | 12°59 | 25°38 | 3°17 | 16°31 | 10°55 | 14° 5 | 9°36 | 12°21 | 6°50 | 8° 9 | 22°26 | n.a. | T 26 |
| F 27 | 20 7 49 | 0♌20'36 | 1♒ 1 | 14°36 | 26°51 | 3°56 | 16°42 | 11° 1 | 14° 9 | 9°38 | 12°22 | 6°45 | 8° 6 | 22°33 | n.a. | F 27 |
| S 28 | 20 11 46 | 1°18'31 | 14° 5 | 16°18 | 28° 4 | 4°35 | 16°53 | 11° 7 | 14°12 | 9°40 | 12°23 | 6°41 | 8° 3 | 22°39 | n.a. | S 28 |
| S 29 | 20 15 43 | 2°16'27 | 26°50 | 18° 2 | 29°17 | 5°13 | 17° 3 | 11°13 | 14°16 | 9°42 | 12°24 | 6°39 | 8° 0 | 22°46 | n.a. | S 29 |
| M30 | 20 19 39 | 3°14'25 | 9♓18 | 19°50 | 0♍31 | 5°52 | 17°14 | 11°19 | 14°20 | 9°44 | 12°25 | 6°D39 | 7°56 | 22°53 | n.a. | M30 |
| T 31 | 20 23 36 | 4♌12'25 | 21♓31 | 21♋40 | 1♍44 | 6♍32 | 17♍25 | 11♊25 | 14♋23 | 9♋46 | 12♊26 | 6♓40 | 7♓53 | 22♈59 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| S 1 | 23n36 | 16s59 | 1s42 | 18n53 | 4s45 | 22n51 | 1n31 | 16n48 | 1n 4 | 8n10 | 1n20 | 20n44 | 1s11 | 23n34 | 0n28 | 23n 5 | 0s21 | 19n 3 | 3s26 | 8s34 | 8s 6 | 10n50 | | n.a. | |
| M 2 | 23 33 | 11 41 | 0 37 | 18 55 | 4 44 | 22 38 | 1 32 | 16 36 | 1 3 | 8 6 | 1 20 | 20 45 | 1 11 | 23 34 | 0 28 | 23 4 | 0 21 | 19 3 | 3 26 | 8 35 | 8 7 | 10 54 | | n.a. | |
| T 3 | 23 30 | 6 4 | 0n29 | 18 59 | 4 41 | 22 24 | 1 32 | 16 24 | 1 3 | 8 3 | 1 20 | 20 47 | 1 11 | 23 33 | 0 28 | 23 4 | 0 21 | 19 4 | 3 26 | 8 35 | 8 9 | 10 57 | | n.a. | |
| W 4 | 23 27 | 0 20 | 1 32 | 19 5 | 4 36 | 22 9 | 1 32 | 16 11 | 1 2 | 8 0 | 1 20 | 20 48 | 1 11 | 23 33 | 0 28 | 23 4 | 0 20 | 19 4 | 3 26 | 8 34 | 8 10 | 11 0 | | n.a. | |
| T 5 | 23 23 | 5n20 | 2 30 | 19 11 | 4 30 | 21 54 | 1 33 | 15 59 | 1 1 | 7 56 | 1 20 | 20 49 | 1 11 | 23 33 | 0 28 | 23 4 | 0 20 | 19 4 | 3 26 | 8 34 | 8 11 | 11 3 | | n.a. | |
| F 6 | 23 19 | 10 47 | 3 22 | 19 20 | 4 22 | 21 37 | 1 33 | 15 46 | 1 1 | 7 52 | 1 19 | 20 50 | 1 11 | 23 32 | 0 28 | 23 4 | 0 20 | 19 4 | 3 26 | 8 34 | 8 12 | 11 6 | | n.a. | |
| S 7 | 23 14 | 15 51 | 4 5 | 19 29 | 4 13 | 21 21 | 1 33 | 15 33 | 1 0 | 7 49 | 1 19 | 20 51 | 1 11 | 23 32 | 0 28 | 23 4 | 0 20 | 19 4 | 3 26 | 8 35 | 8 13 | 11 9 | | n.a. | |
| S 8 | 23 9 | 20 23 | 4 38 | 19 40 | 4 2 | 21 4 | 1 33 | 15 20 | 1 0 | 7 45 | 1 19 | 20 52 | 1 11 | 23 32 | 0 28 | 23 4 | 0 20 | 19 5 | 3 26 | 8 37 | 8 15 | 11 13 | | n.a. | |
| M 9 | 23 3 | 24 8 | 4 58 | 19 52 | 3 50 | 20 46 | 1 33 | 15 7 | 0 59 | 7 41 | 1 19 | 20 53 | 1 11 | 23 31 | 0 28 | 23 3 | 0 20 | 19 5 | 3 26 | 8 39 | 8 16 | 11 16 | | n.a. | |
| T 10 | 22 58 | 26 52 | 5 6 | 20 5 | 3 37 | 20 27 | 1 33 | 14 54 | 0 58 | 7 38 | 1 19 | 20 54 | 1 11 | 23 31 | 0 28 | 23 3 | 0 20 | 19 5 | 3 26 | 8 42 | 8 17 | 11 19 | | n.a. | |
| W11 | 22 51 | 28 19 | 4 58 | 20 19 | 3 24 | 20 8 | 1 32 | 14 41 | 0 58 | 7 34 | 1 18 | 20 55 | 1 11 | 23 30 | 0 28 | 23 3 | 0 20 | 19 5 | 3 26 | 8 46 | 8 18 | 11 22 | | n.a. | |
| T 12 | 22 45 | 28 15 | 4 36 | 20 33 | 3 9 | 19 49 | 1 32 | 14 28 | 0 57 | 7 30 | 1 18 | 20 56 | 1 11 | 23 30 | 0 28 | 23 3 | 0 20 | 19 5 | 3 26 | 8 49 | 8 19 | 11 25 | | n.a. | |
| F 13 | 22 38 | 26 37 | 3 58 | 20 48 | 2 54 | 19 29 | 1 32 | 14 14 | 0 57 | 7 26 | 1 18 | 20 58 | 1 11 | 23 30 | 0 28 | 23 3 | 0 20 | 19 6 | 3 26 | 8 52 | 8 21 | 11 28 | | n.a. | |
| S 14 | 22 30 | 23 25 | 3 7 | 21 4 | 2 38 | 19 8 | 1 31 | 14 1 | 0 56 | 7 22 | 1 18 | 20 59 | 1 11 | 23 29 | 0 28 | 23 3 | 0 20 | 19 6 | 3 26 | 8 55 | 8 22 | 11 32 | | n.a. | |
| S 15 | 22 22 | 18 53 | 2 4 | 21 20 | 2 22 | 18 47 | 1 31 | 13 47 | 0 55 | 7 18 | 1 18 | 21 0 | 1 11 | 23 29 | 0 28 | 23 3 | 0 20 | 19 6 | 3 26 | 8 57 | 8 23 | 11 35 | | n.a. | |
| M16 | 22 14 | 13 18 | 0 52 | 21 36 | 2 6 | 18 25 | 1 30 | 13 33 | 0 55 | 7 14 | 1 18 | 21 1 | 1 11 | 23 29 | 0 28 | 23 2 | 0 20 | 19 6 | 3 26 | 8 57 | 8 24 | 11 38 | | n.a. | |
| T 17 | 22 5 | 7 0 | 0s23 | 21 51 | 1 50 | 18 3 | 1 30 | 13 20 | 0 54 | 7 10 | 1 17 | 21 2 | 1 11 | 23 28 | 0 28 | 23 2 | 0 20 | 19 6 | 3 26 | 8 57 | 8 25 | 11 41 | | n.a. | |
| W18 | 21 56 | 0 19 | 1 37 | 22 7 | 1 33 | 17 40 | 1 29 | 13 6 | 0 54 | 7 6 | 1 17 | 21 2 | 1 11 | 23 28 | 0 28 | 23 2 | 0 20 | 19 6 | 3 26 | 8 57 | 8 27 | 11 44 | | n.a. | |
| T 19 | 21 47 | 6s24 | 2 46 | 22 21 | 1 17 | 17 17 | 1 28 | 12 51 | 0 53 | 7 2 | 1 17 | 21 3 | 1 11 | 23 28 | 0 28 | 23 2 | 0 20 | 19 7 | 3 26 | 8 57 | 8 28 | 11 47 | | n.a. | |
| F 20 | 21 37 | 12 49 | 3 45 | 22 35 | 1 1 | 16 54 | 1 27 | 12 37 | 0 52 | 6 58 | 1 17 | 21 4 | 1 11 | 23 27 | 0 28 | 23 2 | 0 20 | 19 7 | 3 26 | 8 56 | 8 29 | 11 51 | | n.a. | |
| S 21 | 21 27 | 18 35 | 4 30 | 22 48 | 0 46 | 16 30 | 1 26 | 12 23 | 0 52 | 6 54 | 1 17 | 21 5 | 1 11 | 23 27 | 0 28 | 23 2 | 0 20 | 19 7 | 3 26 | 8 57 | 8 30 | 11 54 | | n.a. | |
| S 22 | 21 16 | 23 19 | 4 59 | 22 59 | 0 31 | 16 5 | 1 25 | 12 9 | 0 51 | 6 50 | 1 17 | 21 6 | 1 11 | 23 26 | 0 28 | 23 2 | 0 20 | 19 7 | 3 26 | 8 58 | 8 31 | 11 57 | | n.a. | |
| M23 | 21 5 | 26 40 | 5 10 | 23 9 | 0 16 | 15 40 | 1 24 | 11 54 | 0 51 | 6 45 | 1 16 | 21 7 | 1 11 | 23 26 | 0 28 | 23 1 | 0 20 | 19 7 | 3 26 | 8 59 | 8 33 | 12 0 | | n.a. | |
| T 24 | 20 54 | 28 21 | 5 1 | 23 17 | 0 2 | 15 15 | 1 23 | 11 40 | 0 50 | 6 41 | 1 16 | 21 8 | 1 11 | 23 26 | 0 28 | 23 1 | 0 20 | 19 7 | 3 26 | 9 1 | 8 34 | 12 3 | | n.a. | |
| W25 | 20 42 | 28 14 | 4 36 | 23 23 | 0n11 | 14 49 | 1 22 | 11 25 | 0 50 | 6 37 | 1 16 | 21 9 | 1 11 | 23 25 | 0 28 | 23 1 | 0 20 | 19 7 | 3 26 | 9 4 | 8 35 | 12 6 | | n.a. | |
| T 26 | 20 30 | 26 24 | 3 55 | 23 27 | 0 23 | 14 23 | 1 21 | 11 10 | 0 49 | 6 32 | 1 16 | 21 10 | 1 11 | 23 25 | 0 28 | 23 1 | 0 20 | 19 8 | 3 26 | 9 6 | 8 36 | 12 9 | | n.a. | |
| F 27 | 20 18 | 23 6 | 3 2 | 23 29 | 0 35 | 13 56 | 1 19 | 10 56 | 0 48 | 6 28 | 1 16 | 21 11 | 1 11 | 23 25 | 0 28 | 23 1 | 0 20 | 19 8 | 3 26 | 9 8 | 8 37 | 12 12 | | n.a. | |
| S 28 | 20 5 | 18 42 | 2 0 | 23 28 | 0 46 | 13 30 | 1 18 | 10 41 | 0 48 | 6 24 | 1 16 | 21 11 | 1 11 | 23 24 | 0 28 | 23 1 | 0 20 | 19 8 | 3 26 | 9 9 | 8 39 | 12 16 | | n.a. | |
| S 29 | 19 52 | 13 32 | 0 53 | 23 24 | 0 56 | 13 2 | 1 16 | 10 26 | 0 47 | 6 19 | 1 15 | 21 12 | 1 11 | 23 24 | 0 28 | 23 1 | 0 20 | 19 8 | 3 26 | 9 10 | 8 40 | 12 19 | | n.a. | |
| M30 | 19 39 | 7 57 | 0n14 | 23 18 | 1 5 | 12 35 | 1 15 | 10 11 | 0 47 | 6 15 | 1 15 | 21 13 | 1 11 | 23 23 | 0 28 | 23 0 | 0 20 | 19 8 | 3 26 | 9 10 | 8 41 | 12 22 | | n.a. | |
| T 31 | 19n25 | 2s10 | 1n20 | 23n 9 | 1n13 | 12n 7 | 1n13 | 9n55 | 0n46 | 6n10 | 1n15 | 21n14 | 1s11 | 23n23 | 0n28 | 23n 0 | 0s20 | 19n 8 | 3s26 | 9s10 | 8s42 | 12n25 | | n.a. | |

Julian Day Number = 1699689.5, Delta T = 03h06m13s
Ecliptic obliquity = 23°42'16, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°53'07, Lahiri = - 4°46'06 Julian Calendar 1 July 60 BCE == Greg. Calendar 29 June 060 BCE

The year -59 astronomical counting style corresponds to year 060 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 60 BCE
# geocentric

## AUGUST 60 BCE (-59) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 20 27 32 | 5♌10'26 | 3♈33 | 23♋32 | 2♍57 | 7♍11 | 17♍37 | 11♊31 | 14♋27 | 9♋48 | 12♊27 | 6♓41 | 7♓50 | 23♈ 6 | n.a. | W 1 |
| T 2 | 20 31 29 | 6° 8'30 | 15°27 | 25°26 | 4°10 | 7°50 | 17°48 | 11°36 | 14°30 | 9°50 | 12°28 | 6°43 | 7°47 | 23°13 | n.a. | T 2 |
| F 3 | 20 35 25 | 7° 6'36 | 27°17 | 27°21 | 5°23 | 8°29 | 17°59 | 11°42 | 14°34 | 9°52 | 12°29 | 6°44 | 7°44 | 23°19 | n.a. | F 3 |
| S 4 | 20 39 22 | 8° 4'43 | 9♉10 | 29°17 | 6°36 | 9° 8 | 18°10 | 11°47 | 14°37 | 9°54 | 12°30 | 6°R45 | 7°41 | 23°26 | n.a. | S 4 |
| S 5 | 20 43 18 | 9° 2'53 | 21° 9 | 1♌13 | 7°49 | 9°48 | 18°22 | 11°53 | 14°41 | 9°56 | 12°31 | 6°44 | 7°37 | 23°33 | n.a. | S 5 |
| M 6 | 20 47 15 | 10° 1'05 | 3♊19 | 3°10 | 9° 2 | 10°27 | 18°33 | 11°58 | 14°44 | 9°58 | 12°32 | 6°42 | 7°34 | 23°40 | n.a. | M 6 |
| T 7 | 20 51 12 | 10°59'20 | 15°44 | 5° 7 | 10°15 | 11° 7 | 18°45 | 12° 3 | 14°47 | 10° 0 | 12°32 | 6°39 | 7°31 | 23°46 | n.a. | T 7 |
| W 8 | 20 55 8 | 11°57'36 | 28°29 | 7° 4 | 11°28 | 11°46 | 18°56 | 12° 9 | 14°51 | 10° 2 | 12°33 | 6°36 | 7°28 | 23°53 | n.a. | W 8 |
| T 9 | 20 59 5 | 12°55'54 | 11♋33 | 9° 0 | 12°41 | 12°26 | 19° 8 | 12°14 | 14°54 | 10° 4 | 12°34 | 6°32 | 7°25 | 24° 0 | n.a. | T 9 |
| F 10 | 21 3 1 | 13°54'15 | 24°59 | 10°56 | 13°54 | 13° 6 | 19°20 | 12°19 | 14°58 | 10° 6 | 12°35 | 6°29 | 7°22 | 24° 6 | n.a. | F 10 |
| S 11 | 21 6 58 | 14°52'37 | 8♌45 | 12°51 | 15° 7 | 13°45 | 19°31 | 12°24 | 15° 1 | 10° 8 | 12°36 | 6°26 | 7°18 | 24°13 | n.a. | S 11 |
| S 12 | 21 10 54 | 15°51'02 | 22°49 | 14°45 | 16°20 | 14°25 | 19°43 | 12°29 | 15° 4 | 10°10 | 12°37 | 6°25 | 7°15 | 24°20 | n.a. | S 12 |
| M13 | 21 14 51 | 16°49'28 | 7♍ 5 | 16°39 | 17°33 | 15° 5 | 19°55 | 12°34 | 15° 8 | 10°12 | 12°37 | 6°D24 | 7°12 | 24°26 | n.a. | M13 |
| T 14 | 21 18 47 | 17°47'56 | 21°30 | 18°32 | 18°46 | 15°45 | 20° 7 | 12°38 | 15°11 | 10°14 | 12°38 | 6°25 | 7° 9 | 24°33 | n.a. | T 14 |
| W15 | 21 22 44 | 18°46'26 | 5♎58 | 20°23 | 19°59 | 16°25 | 20°19 | 12°43 | 15°14 | 10°16 | 12°39 | 6°26 | 7° 6 | 24°40 | n.a. | W15 |
| T 16 | 21 26 41 | 19°44'57 | 20°24 | 22°14 | 21°12 | 17° 5 | 20°31 | 12°48 | 15°17 | 10°17 | 12°40 | 6°27 | 7° 2 | 24°46 | n.a. | T 16 |
| F 17 | 21 30 37 | 20°43'31 | 4♏45 | 24° 3 | 22°24 | 17°45 | 20°43 | 12°52 | 15°20 | 10°19 | 12°40 | 6°28 | 6°59 | 24°53 | n.a. | F 17 |
| S 18 | 21 34 34 | 21°42'06 | 18°58 | 25°52 | 23°37 | 18°25 | 20°55 | 12°57 | 15°24 | 10°21 | 12°41 | 6°R28 | 6°56 | 25° 0 | n.a. | S 18 |
| S 19 | 21 38 30 | 22°40'43 | 3♐ 1 | 27°40 | 24°50 | 19° 5 | 21° 8 | 13° 1 | 15°27 | 10°23 | 12°42 | 6°28 | 6°53 | 25° 7 | n.a. | S 19 |
| M20 | 21 42 27 | 23°39'21 | 16°51 | 29°26 | 26° 3 | 19°45 | 21°20 | 13° 5 | 15°30 | 10°24 | 12°42 | 6°27 | 6°50 | 25°13 | n.a. | M20 |
| T 21 | 21 46 23 | 24°38'02 | 0♑29 | 1♍11 | 27°15 | 20°26 | 21°32 | 13° 9 | 15°33 | 10°26 | 12°43 | 6°26 | 6°47 | 25°20 | n.a. | T 21 |
| W22 | 21 50 20 | 25°36'44 | 13°54 | 2°56 | 28°28 | 21° 6 | 21°45 | 13°13 | 15°36 | 10°28 | 12°43 | 6°25 | 6°43 | 25°27 | n.a. | W22 |
| T 23 | 21 54 16 | 26°35'28 | 27° 4 | 4°39 | 29°41 | 21°46 | 21°57 | 13°17 | 15°39 | 10°30 | 12°44 | 6°23 | 6°40 | 25°33 | n.a. | T 23 |
| F 24 | 21 58 13 | 27°34'14 | 10♒ 1 | 6°22 | 0♎53 | 22°27 | 22° 9 | 13°21 | 15°42 | 10°31 | 12°45 | 6°22 | 6°37 | 25°40 | n.a. | F 24 |
| S 25 | 22 2 10 | 28°33'02 | 22°44 | 8° 3 | 2° 6 | 23° 7 | 22°22 | 13°25 | 15°45 | 10°33 | 12°45 | 6°21 | 6°34 | 25°47 | n.a. | S 25 |
| S 26 | 22 6 6 | 29°31'52 | 5♓14 | 9°44 | 3°18 | 23°48 | 22°34 | 13°29 | 15°48 | 10°34 | 12°46 | 6°D21 | 6°31 | 25°53 | n.a. | S 26 |
| M27 | 22 10 3 | 0♍30'45 | 17°32 | 11°23 | 4°31 | 24°29 | 22°47 | 13°32 | 15°51 | 10°36 | 12°46 | 6°21 | 6°28 | 26° 0 | n.a. | M27 |
| T 28 | 22 13 59 | 1°29'39 | 29°39 | 13° 2 | 5°43 | 25° 9 | 23° 0 | 13°36 | 15°54 | 10°38 | 12°46 | 6°22 | 6°24 | 26° 7 | n.a. | T 28 |
| W29 | 22 17 56 | 2°28'35 | 11♈37 | 14°39 | 6°56 | 25°50 | 23°12 | 13°39 | 15°57 | 10°39 | 12°47 | 6°22 | 6°21 | 26°13 | n.a. | W29 |
| T 30 | 22 21 52 | 3°27'34 | 23°29 | 16°16 | 8° 8 | 26°31 | 23°25 | 13°43 | 15°59 | 10°41 | 12°47 | 6°23 | 6°18 | 26°20 | n.a. | T 30 |
| F 31 | 22 25 49 | 4♍26'35 | 5♉20 | 17♍52 | 9♎21 | 27♍12 | 23♍38 | 13♊46 | 16♋ 2 | 10♋42 | 12♊48 | 6♓23 | 6♓15 | 26♈27 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | | ☊ | | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | | decl | | decl | | decl | lat |
| W 1 | 19n11 | 3n35 | 2n22 | 22n57 | 1n21 | 11n39 | 1n12 | 9n40 | 0n45 | 6n 6 | 1n15 | 21n15 | 1s11 | 23n23 | 0n28 | 23n 0 | 0s20 | 19n 8 | 3s26 | 9s 9 | | 8s43 | | 12n28 | | | n.a. |
| T 2 | 18 57 | 9 10 | 3 17 | 22 43 | 1 27 | 11 10 | 1 10 | 9 25 | 0 45 | 6 1 | 1 15 | 21 15 | 1 11 | 23 22 | 0 28 | 23 0 | 0 20 | 19 8 | 3 26 | 9 9 | | 8 45 | | 12 31 | | | n.a. |
| F 3 | 18 42 | 14 23 | 4 3 | 22 26 | 1 32 | 10 41 | 1 8 | 9 10 | 0 44 | 5 57 | 1 15 | 21 16 | 1 11 | 23 22 | 0 28 | 23 0 | 0 20 | 19 9 | 3 26 | 9 8 | | 8 46 | | 12 34 | | | n.a. |
| S 4 | 18 27 | 19 6 | 4 38 | 22 6 | 1 37 | 10 12 | 1 6 | 8 54 | 0 43 | 5 52 | 1 15 | 21 17 | 1 11 | 23 22 | 0 28 | 23 0 | 0 20 | 19 9 | 3 26 | 9 8 | | 8 47 | | 12 37 | | | n.a. |
| S 5 | 18 12 | 23 6 | 5 2 | 21 45 | 1 41 | 9 43 | 1 4 | 8 38 | 0 43 | 5 48 | 1 15 | 21 18 | 1 11 | 23 21 | 0 28 | 23 0 | 0 20 | 19 9 | 3 26 | 9 8 | | 8 48 | | 12 40 | | | n.a. |
| M 6 | 17 56 | 26 10 | 5 13 | 21 21 | 1 44 | 9 14 | 1 2 | 8 23 | 0 42 | 5 43 | 1 14 | 21 18 | 1 11 | 23 21 | 0 28 | 22 59 | 0 20 | 19 9 | 3 26 | 9 9 | | 8 49 | | 12 43 | | | n.a. |
| T 7 | 17 40 | 28 4 | 5 10 | 20 54 | 1 46 | 8 44 | 1 0 | 8 7 | 0 42 | 5 38 | 1 14 | 21 19 | 1 11 | 23 21 | 0 28 | 22 59 | 0 20 | 19 9 | 3 26 | 9 10 | | 8 51 | | 12 47 | | | n.a. |
| W 8 | 17 24 | 28 33 | 4 51 | 20 26 | 1 47 | 8 14 | 0 58 | 7 51 | 0 41 | 5 33 | 1 14 | 21 20 | 1 11 | 23 20 | 0 28 | 22 59 | 0 20 | 19 9 | 3 26 | 9 11 | | 8 52 | | 12 50 | | | n.a. |
| T 9 | 17 7 | 27 28 | 4 17 | 19 56 | 1 48 | 7 44 | 0 56 | 7 36 | 0 40 | 5 29 | 1 14 | 21 20 | 1 11 | 23 20 | 0 28 | 22 59 | 0 20 | 19 9 | 3 26 | 9 13 | | 8 53 | | 12 53 | | | n.a. |
| F 10 | 16 50 | 24 47 | 3 29 | 19 24 | 1 48 | 7 13 | 0 53 | 7 20 | 0 40 | 5 24 | 1 14 | 21 21 | 1 11 | 23 19 | 0 28 | 22 59 | 0 20 | 19 9 | 3 26 | 9 14 | | 8 54 | | 12 56 | | | n.a. |
| S 11 | 16 33 | 20 37 | 2 26 | 18 51 | 1 47 | 6 42 | 0 51 | 7 4 | 0 39 | 5 19 | 1 14 | 21 21 | 1 11 | 23 19 | 0 28 | 22 59 | 0 20 | 19 9 | 3 26 | 9 15 | | 8 55 | | 12 59 | | | n.a. |
| S 12 | 16 16 | 15 14 | 1 14 | 18 16 | 1 46 | 6 12 | 0 49 | 6 48 | 0 39 | 5 14 | 1 14 | 21 22 | 1 11 | 23 19 | 0 28 | 22 59 | 0 20 | 19 9 | 3 26 | 9 16 | | 8 57 | | 13 2 | | | n.a. |
| M13 | 15 58 | 8 57 | 0s 4 | 17 40 | 1 44 | 5 41 | 0 46 | 6 31 | 0 38 | 5 10 | 1 14 | 21 23 | 1 11 | 23 18 | 0 28 | 22 58 | 0 20 | 19 10 | 3 26 | 9 16 | | 8 58 | | 13 5 | | | n.a. |
| T 14 | 15 40 | 2 9 | 1 22 | 17 3 | 1 42 | 5 10 | 0 44 | 6 15 | 0 37 | 5 5 | 1 13 | 21 23 | 1 11 | 23 18 | 0 28 | 22 58 | 0 20 | 19 10 | 3 26 | 9 16 | | 8 59 | | 13 8 | | | n.a. |
| W15 | 15 22 | 4s47 | 2 36 | 16 25 | 1 39 | 4 38 | 0 41 | 5 59 | 0 37 | 5 0 | 1 13 | 21 24 | 1 11 | 23 18 | 0 28 | 22 58 | 0 20 | 19 10 | 3 26 | 9 15 | | 9 0 | | 13 11 | | | n.a. |
| T 16 | 15 3 | 11 26 | 3 40 | 15 46 | 1 36 | 4 7 | 0 38 | 5 43 | 0 36 | 4 55 | 1 13 | 21 24 | 1 11 | 23 17 | 0 28 | 22 58 | 0 20 | 19 10 | 3 26 | 9 15 | | 9 1 | | 13 14 | | | n.a. |
| F 17 | 14 45 | 17 28 | 4 29 | 15 6 | 1 32 | 3 36 | 0 36 | 5 26 | 0 36 | 4 50 | 1 13 | 21 25 | 1 11 | 23 17 | 0 28 | 22 58 | 0 20 | 19 10 | 3 26 | 9 14 | | 9 3 | | 13 17 | | | n.a. |
| S 18 | 14 26 | 22 29 | 5 2 | 14 25 | 1 28 | 3 4 | 0 33 | 5 10 | 0 35 | 4 45 | 1 13 | 21 25 | 1 11 | 23 17 | 0 29 | 22 58 | 0 20 | 19 10 | 3 26 | 9 14 | | 9 4 | | 13 20 | | | n.a. |
| S 19 | 14 6 | 26 9 | 5 16 | 13 44 | 1 24 | 2 32 | 0 30 | 4 53 | 0 34 | 4 40 | 1 13 | 21 26 | 1 11 | 23 16 | 0 29 | 22 58 | 0 20 | 19 10 | 3 26 | 9 14 | | 9 5 | | 13 23 | | | n.a. |
| M20 | 13 47 | 28 12 | 5 11 | 13 2 | 1 19 | 2 1 | 0 28 | 4 37 | 0 34 | 4 35 | 1 13 | 21 27 | 1 11 | 23 16 | 0 29 | 22 57 | 0 20 | 19 10 | 3 26 | 9 14 | | 9 6 | | 13 26 | | | n.a. |
| T 21 | 13 27 | 28 31 | 4 49 | 12 20 | 1 14 | 1 29 | 0 25 | 4 20 | 0 33 | 4 30 | 1 13 | 21 27 | 1 11 | 23 16 | 0 29 | 22 57 | 0 20 | 19 10 | 3 26 | 9 15 | | 9 7 | | 13 29 | | | n.a. |
| W22 | 13 7 | 27 8 | 4 11 | 11 37 | 1 9 | 0 57 | 0 22 | 4 4 | 0 32 | 4 25 | 1 13 | 21 27 | 1 11 | 23 15 | 0 29 | 22 57 | 0 20 | 19 10 | 3 26 | 9 16 | | 9 8 | | 13 32 | | | n.a. |
| T 23 | 12 47 | 24 15 | 3 21 | 10 54 | 1 4 | 0 25 | 0 19 | 3 47 | 0 32 | 4 20 | 1 13 | 21 28 | 1 11 | 23 15 | 0 29 | 22 57 | 0 20 | 19 10 | 3 26 | 9 16 | | 9 10 | | 13 35 | | | n.a. |
| F 24 | 12 27 | 20 11 | 2 21 | 10 10 | 0 58 | 0s 7 | 0 16 | 3 30 | 0 31 | 4 15 | 1 13 | 21 28 | 1 11 | 23 15 | 0 29 | 22 57 | 0 20 | 19 10 | 3 26 | 9 16 | | 9 11 | | 13 39 | | | n.a. |
| S 25 | 12 6 | 15 16 | 1 15 | 9 27 | 0 52 | 0 39 | 0 13 | 3 14 | 0 31 | 4 10 | 1 12 | 21 29 | 1 11 | 23 14 | 0 29 | 22 57 | 0 20 | 19 10 | 3 26 | 9 17 | | 9 12 | | 13 42 | | | n.a. |
| S 26 | 11 46 | 9 47 | 0 6 | 8 43 | 0 46 | 1 11 | 0 10 | 2 57 | 0 30 | 4 5 | 1 12 | 21 29 | 1 12 | 23 14 | 0 29 | 22 57 | 0 20 | 19 10 | 3 26 | 9 17 | | 9 13 | | 13 45 | | | n.a. |
| M27 | 11 25 | 4 2 | 1n 2 | 7 59 | 0 40 | 1 43 | 0 7 | 2 40 | 0 29 | 4 0 | 1 12 | 21 30 | 1 12 | 23 14 | 0 29 | 22 57 | 0 20 | 19 10 | 3 26 | 9 17 | | 9 14 | | 13 48 | | | n.a. |
| T 28 | 11 4 | 1n46 | 2 6 | 7 15 | 0 33 | 2 15 | 0 4 | 2 23 | 0 29 | 3 55 | 1 12 | 21 30 | 1 12 | 23 13 | 0 29 | 22 56 | 0 20 | 19 10 | 3 26 | 9 17 | | 9 16 | | 13 51 | | | n.a. |
| W29 | 10 42 | 7 27 | 3 3 | 6 31 | 0 27 | 2 46 | 0 0 | 2 6 | 0 28 | 3 50 | 1 12 | 21 30 | 1 12 | 23 13 | 0 29 | 22 56 | 0 20 | 19 10 | 3 26 | 9 16 | | 9 17 | | 13 54 | | | n.a. |
| T 30 | 10 21 | 12 49 | 3 53 | 5 47 | 0 20 | 3 18 | 0s 3 | 1 49 | 0 27 | 3 45 | 1 12 | 21 31 | 1 12 | 23 13 | 0 29 | 22 56 | 0 20 | 19 10 | 3 26 | 9 16 | | 9 18 | | 13 57 | | | n.a. |
| F 31 | 9n59 | 17n42 | 4n32 | 5n 3 | 0n13 | 3s50 | 0s 6 | 1n32 | 0n27 | 3n39 | 1n12 | 21n31 | 1s12 | 23n12 | 0n29 | 22n56 | 0s20 | 19n10 | 3s26 | 9s16 | | 9s19 | | 14n 0 | | | n.a. |

Julian Day Number = 1699720.5, Delta T = 03h06m12s
Ecliptic obliquity = 23°42'16, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°53'03, Lahiri = - 4°46'02 Julian Calendar 1 Aug. 60 BCE == Greg. Calendar 30 July 060 BCE

The year -59 astronomical counting style corresponds to year 060 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 60 BCE
# geocentric

## SEPTEMBER 60 BCE (-59) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 22 29 45 | 5♍25'39 | 17♉11 | 19♍27 | 10♎33 | 27♍53 | 23♍50 | 13♊49 | 16♋ 5 | 10♋44 | 12♊48 | 6♓23 | 6♓12 | 26♈33 | n.a. | S 1 |
| S 2 | 22 33 42 | 6°24'45 | 29° 9 | 21° 1 | 11°45 | 28°34 | 24° 3 | 13°52 | 16° 8 | 10°45 | 12°48 | 6°23 | 6° 8 | 26°40 | n.a. | S 2 |
| M 3 | 22 37 38 | 7°23'53 | 11♊17 | 22°34 | 12°58 | 29°15 | 24°16 | 13°55 | 16°10 | 10°46 | 12°49 | 6°23 | 6° 5 | 26°47 | n.a. | M 3 |
| T 4 | 22 41 35 | 8°23'04 | 23°40 | 24° 7 | 14°10 | 29°56 | 24°29 | 13°58 | 16°13 | 10°48 | 12°49 | 6°23 | 6° 2 | 26°54 | n.a. | T 4 |
| W 5 | 22 45 32 | 9°22'18 | 6♋23 | 25°38 | 15°22 | 0♎37 | 24°41 | 14° 0 | 16°15 | 10°49 | 12°49 | 6°23 | 5°59 | 27° 0 | n.a. | W 5 |
| T 6 | 22 49 28 | 10°21'33 | 19°28 | 27° 9 | 16°34 | 1°18 | 24°54 | 14° 3 | 16°18 | 10°51 | 12°49 | 6°24 | 5°56 | 27° 7 | n.a. | T 6 |
| F 7 | 22 53 25 | 11°20'51 | 2♌57 | 28°39 | 17°47 | 1°59 | 25° 7 | 14° 6 | 16°20 | 10°52 | 12°50 | 6°24 | 5°53 | 27°14 | n.a. | F 7 |
| S 8 | 22 57 21 | 12°20'12 | 16°52 | 0♎ 8 | 18°59 | 2°41 | 25°20 | 14° 8 | 16°23 | 10°53 | 12°50 | 6°25 | 5°49 | 27°20 | n.a. | S 8 |
| S 9 | 23 1 18 | 13°19'34 | 1♍10 | 1°36 | 20°11 | 3°22 | 25°33 | 14°10 | 16°25 | 10°54 | 12°50 | 6°R25 | 5°46 | 27°27 | n.a. | S 9 |
| M10 | 23 5 14 | 14°18'59 | 15°47 | 3° 4 | 21°23 | 4° 4 | 25°46 | 14°13 | 16°28 | 10°56 | 12°50 | 6°25 | 5°43 | 27°34 | n.a. | M10 |
| T 11 | 23 9 11 | 15°18'26 | 0♎37 | 4°30 | 22°35 | 4°45 | 25°59 | 14°15 | 16°30 | 10°57 | 12°50 | 6°24 | 5°40 | 27°40 | n.a. | T 11 |
| W12 | 23 13 7 | 16°17'55 | 15°32 | 5°56 | 23°47 | 5°27 | 26°12 | 14°17 | 16°32 | 10°58 | 12°50 | 6°23 | 5°37 | 27°47 | n.a. | W12 |
| T 13 | 23 17 4 | 17°17'26 | 0♏24 | 7°21 | 24°59 | 6° 8 | 26°25 | 14°18 | 16°35 | 10°59 | 12°51 | 6°22 | 5°33 | 27°54 | n.a. | T 13 |
| F 14 | 23 21 1 | 18°16'59 | 15° 6 | 8°45 | 26°11 | 6°50 | 26°38 | 14°20 | 16°37 | 11° 0 | 12°51 | 6°21 | 5°30 | 28° 0 | n.a. | F 14 |
| S 15 | 23 24 57 | 19°16'34 | 29°32 | 10° 7 | 27°23 | 7°32 | 26°51 | 14°22 | 16°39 | 11° 1 | 12°51 | 6°20 | 5°27 | 28° 7 | n.a. | S 15 |
| S 16 | 23 28 54 | 20°16'10 | 13♐38 | 11°29 | 28°34 | 8°14 | 27° 4 | 14°23 | 16°41 | 11° 2 | 12°R51 | 6°19 | 5°24 | 28°14 | n.a. | S 16 |
| M17 | 23 32 50 | 21°15'49 | 27°25 | 12°50 | 29°46 | 8°56 | 27°17 | 14°25 | 16°43 | 11° 3 | 12°51 | 6°D19 | 5°21 | 28°21 | n.a. | M17 |
| T 18 | 23 36 47 | 22°15'29 | 10♑51 | 14°10 | 0♏58 | 9°38 | 27°31 | 14°26 | 16°45 | 11° 4 | 12°51 | 6°20 | 5°18 | 28°27 | n.a. | T 18 |
| W19 | 23 40 43 | 23°15'11 | 23°58 | 15°29 | 2°10 | 10°19 | 27°44 | 14°27 | 16°47 | 11° 5 | 12°50 | 6°21 | 5°14 | 28°34 | n.a. | W19 |
| T 20 | 23 44 40 | 24°14'55 | 6♒49 | 16°46 | 3°21 | 11° 2 | 27°57 | 14°28 | 16°49 | 11° 6 | 12°50 | 6°22 | 5°11 | 28°41 | n.a. | T 20 |
| F 21 | 23 48 36 | 25°14'41 | 19°25 | 18° 2 | 4°33 | 11°44 | 28°10 | 14°29 | 16°51 | 11° 7 | 12°50 | 6°24 | 5° 8 | 28°47 | n.a. | F 21 |
| S 22 | 23 52 33 | 26°14'28 | 1♓50 | 19°17 | 5°44 | 12°26 | 28°23 | 14°30 | 16°53 | 11° 8 | 12°50 | 6°R24 | 5° 5 | 28°54 | n.a. | S 22 |
| S 23 | 23 56 30 | 27°14'18 | 14° 4 | 20°30 | 6°56 | 13° 8 | 28°36 | 14°31 | 16°55 | 11° 9 | 12°50 | 6°24 | 5° 2 | 29° 1 | n.a. | S 23 |
| M24 | 0 0 26 | 28°14'09 | 26° 9 | 21°41 | 8° 7 | 13°50 | 28°49 | 14°32 | 16°56 | 11° 9 | 12°50 | 6°23 | 4°59 | 29° 7 | n.a. | M24 |
| T 25 | 0 4 23 | 29°14'03 | 8♈ 8 | 22°50 | 9°19 | 14°33 | 29° 2 | 14°32 | 16°58 | 11°10 | 12°50 | 6°20 | 4°55 | 29°14 | n.a. | T 25 |
| W26 | 0 8 19 | 0♎13'58 | 20° 3 | 23°58 | 10°30 | 15°15 | 29°16 | 14°33 | 17° 0 | 11°11 | 12°49 | 6°17 | 4°52 | 29°21 | n.a. | W26 |
| T 27 | 0 12 16 | 1°13'56 | 1♉54 | 25° 3 | 11°41 | 15°57 | 29°29 | 14°33 | 17° 1 | 11°12 | 12°49 | 6°13 | 4°49 | 29°28 | n.a. | T 27 |
| F 28 | 0 16 12 | 2°13'56 | 13°44 | 26° 6 | 12°52 | 16°40 | 29°42 | 14°33 | 17° 3 | 11°12 | 12°49 | 6° 8 | 4°46 | 29°34 | n.a. | F 28 |
| S 29 | 0 20 9 | 3°13'58 | 25°36 | 27° 6 | 14° 3 | 17°22 | 29°55 | 14°R33 | 17° 4 | 11°13 | 12°48 | 6° 4 | 4°43 | 29°41 | n.a. | S 29 |
| S 30 | 0 24 5 | 4♎14'02 | 7♊34 | 28♎ 3 | 15♏14 | 18♎ 5 | 0♎ 8 | 14♊33 | 17♋ 6 | 11♋14 | 12♊48 | 6♓ 0 | 4♓39 | 29♈48 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 9n37 | 21n56 | 5n 0 | 4n19 | 0n 6 | 4s22 | 0s 9 | 1n15 | 0n26 | 3n34 | 1n12 | 21n31 | 1s12 | 23n12 | 0n29 | 22n56 | 0s20 | 19n10 | 3s26 | 9s16 | 9s20 | 14n 3 | | n.a. |
| S 2 | 9 15 | 25 18 | 5 15 | 3 35 | 0s 1 | 4 53 | 0 12 | 0 58 | 0 26 | 3 29 | 1 12 | 21 32 | 1 12 | 23 12 | 0 29 | 22 56 | 0 20 | 19 11 | 3 26 | 9 16 | 9 22 | 14 6 | | n.a. |
| M 3 | 8 53 | 27 36 | 5 16 | 2 51 | 0 8 | 5 25 | 0 16 | 0 41 | 0 25 | 3 24 | 1 12 | 21 32 | 1 12 | 23 11 | 0 29 | 22 56 | 0 20 | 19 11 | 3 26 | 9 16 | 9 23 | 14 9 | | n.a. |
| T 4 | 8 31 | 28 36 | 5 3 | 2 8 | 0 15 | 5 56 | 0 19 | 0 24 | 0 24 | 3 19 | 1 12 | 21 32 | 1 12 | 23 11 | 0 29 | 22 56 | 0 20 | 19 11 | 3 26 | 9 16 | 9 24 | 14 12 | | n.a. |
| W 5 | 8 9 | 28 8 | 4 35 | 1 25 | 0 22 | 6 28 | 0 22 | 0 7 | 0 24 | 3 14 | 1 12 | 21 33 | 1 12 | 23 11 | 0 29 | 22 55 | 0 20 | 19 11 | 3 26 | 9 16 | 9 25 | 14 15 | | n.a. |
| T 6 | 7 46 | 26 6 | 3 52 | 0 42 | 0 30 | 6 59 | 0 26 | 0s10 | 0 23 | 3 8 | 1 12 | 21 33 | 1 12 | 23 11 | 0 29 | 22 55 | 0 20 | 19 11 | 3 26 | 9 16 | 9 26 | 14 18 | | n.a. |
| F 7 | 7 23 | 22 33 | 2 55 | 0s 1 | 0 37 | 7 30 | 0 29 | 0 27 | 0 22 | 3 3 | 1 12 | 21 33 | 1 12 | 23 10 | 0 29 | 22 55 | 0 20 | 19 11 | 3 26 | 9 16 | 9 27 | 14 21 | | n.a. |
| S 8 | 7 0 | 17 38 | 1 46 | 0 43 | 0 44 | 8 1 | 0 32 | 0 45 | 0 22 | 2 58 | 1 11 | 21 33 | 1 12 | 23 10 | 0 29 | 22 55 | 0 20 | 19 11 | 3 26 | 9 16 | 9 29 | 14 24 | | n.a. |
| S 9 | 6 37 | 11 38 | 0 29 | 1 26 | 0 51 | 8 31 | 0 36 | 1 2 | 0 21 | 2 53 | 1 11 | 21 34 | 1 12 | 23 10 | 0 29 | 22 55 | 0 20 | 19 11 | 3 26 | 9 15 | 9 30 | 14 26 | | n.a. |
| M10 | 6 14 | 4 52 | 0s52 | 2 7 | 0 58 | 9 2 | 0 39 | 1 19 | 0 21 | 2 47 | 1 11 | 21 34 | 1 12 | 23 10 | 0 29 | 22 55 | 0 20 | 19 11 | 3 26 | 9 15 | 9 31 | 14 29 | | n.a. |
| T 11 | 5 51 | 2s14 | 2 10 | 2 49 | 1 6 | 9 32 | 0 43 | 1 36 | 0 20 | 2 42 | 1 11 | 21 34 | 1 12 | 23 9 | 0 29 | 22 55 | 0 20 | 19 11 | 3 27 | 9 16 | 9 32 | 14 32 | | n.a. |
| W12 | 5 28 | 9 15 | 3 20 | 3 29 | 1 13 | 10 3 | 0 46 | 1 54 | 0 19 | 2 37 | 1 11 | 21 34 | 1 12 | 23 9 | 0 29 | 22 55 | 0 20 | 19 11 | 3 27 | 9 16 | 9 33 | 14 35 | | n.a. |
| T 13 | 5 4 | 15 44 | 4 16 | 4 10 | 1 20 | 10 32 | 0 49 | 2 11 | 0 19 | 2 32 | 1 11 | 21 34 | 1 12 | 23 9 | 0 29 | 22 55 | 0 20 | 19 10 | 3 27 | 9 16 | 9 35 | 14 38 | | n.a. |
| F 14 | 4 41 | 21 14 | 4 55 | 4 50 | 1 27 | 11 2 | 0 53 | 2 28 | 0 18 | 2 26 | 1 11 | 21 35 | 1 12 | 23 9 | 0 29 | 22 55 | 0 20 | 19 10 | 3 27 | 9 17 | 9 36 | 14 41 | | n.a. |
| S 15 | 4 17 | 25 23 | 5 14 | 5 29 | 1 34 | 11 32 | 0 56 | 2 45 | 0 17 | 2 21 | 1 11 | 21 35 | 1 12 | 23 8 | 0 29 | 22 55 | 0 20 | 19 10 | 3 27 | 9 17 | 9 37 | 14 44 | | n.a. |
| S 16 | 3 54 | 27 53 | 5 14 | 6 8 | 1 40 | 12 1 | 1 0 | 3 3 | 0 17 | 2 16 | 1 11 | 21 35 | 1 12 | 23 8 | 0 29 | 22 54 | 0 20 | 19 10 | 3 27 | 9 18 | 9 38 | 14 47 | | n.a. |
| M17 | 3 30 | 28 36 | 4 55 | 6 46 | 1 47 | 12 30 | 1 3 | 3 20 | 0 16 | 2 10 | 1 11 | 21 35 | 1 12 | 23 8 | 0 29 | 22 54 | 0 20 | 19 10 | 3 27 | 9 18 | 9 39 | 14 50 | | n.a. |
| T 18 | 3 6 | 27 35 | 4 21 | 7 23 | 1 54 | 12 58 | 1 6 | 3 37 | 0 16 | 2 5 | 1 11 | 21 35 | 1 13 | 23 8 | 0 29 | 22 54 | 0 20 | 19 10 | 3 27 | 9 17 | 9 40 | 14 53 | | n.a. |
| W19 | 2 42 | 25 3 | 3 33 | 8 0 | 2 0 | 13 27 | 1 10 | 3 54 | 0 15 | 2 0 | 1 11 | 21 35 | 1 13 | 23 7 | 0 29 | 22 54 | 0 20 | 19 10 | 3 27 | 9 17 | 9 42 | 14 56 | | n.a. |
| T 20 | 2 19 | 21 17 | 2 36 | 8 36 | 2 6 | 13 55 | 1 13 | 4 11 | 0 14 | 1 55 | 1 11 | 21 35 | 1 13 | 23 7 | 0 29 | 22 54 | 0 20 | 19 10 | 3 27 | 9 16 | 9 43 | 14 59 | | n.a. |
| F 21 | 1 55 | 16 37 | 1 32 | 9 11 | 2 12 | 14 23 | 1 17 | 4 29 | 0 14 | 1 49 | 1 11 | 21 35 | 1 13 | 23 7 | 0 29 | 22 54 | 0 20 | 19 10 | 3 27 | 9 16 | 9 44 | 15 2 | | n.a. |
| S 22 | 1 31 | 11 20 | 0 25 | 9 45 | 2 18 | 14 50 | 1 20 | 4 46 | 0 13 | 1 44 | 1 11 | 21 35 | 1 13 | 23 7 | 0 29 | 22 54 | 0 20 | 19 10 | 3 27 | 9 16 | 9 45 | 15 5 | | n.a. |
| S 23 | 1 7 | 5 42 | 0n42 | 10 18 | 2 23 | 15 17 | 1 23 | 5 3 | 0 12 | 1 39 | 1 11 | 21 35 | 1 13 | 23 7 | 0 30 | 22 54 | 0 20 | 19 10 | 3 27 | 9 16 | 9 46 | 15 8 | | n.a. |
| M24 | 0 43 | 0n 5 | 1 47 | 10 50 | 2 29 | 15 44 | 1 26 | 5 20 | 0 12 | 1 33 | 1 11 | 21 35 | 1 13 | 23 6 | 0 30 | 22 54 | 0 20 | 19 10 | 3 27 | 9 16 | 9 47 | 15 11 | | n.a. |
| T 25 | 0 18 | 5 48 | 2 46 | 11 21 | 2 33 | 16 10 | 1 30 | 5 37 | 0 11 | 1 28 | 1 11 | 21 36 | 1 13 | 23 6 | 0 30 | 22 54 | 0 20 | 19 10 | 3 27 | 9 17 | 9 49 | 15 14 | | n.a. |
| W26 | 0s 6 | 11 16 | 3 37 | 11 50 | 2 38 | 16 36 | 1 33 | 5 55 | 0 10 | 1 23 | 1 11 | 21 36 | 1 13 | 23 6 | 0 30 | 22 54 | 0 20 | 19 10 | 3 27 | 9 18 | 9 50 | 15 16 | | n.a. |
| T 27 | 0 30 | 16 18 | 4 19 | 12 19 | 2 42 | 17 2 | 1 36 | 6 12 | 0 10 | 1 18 | 1 11 | 21 36 | 1 13 | 23 6 | 0 30 | 22 54 | 0 20 | 19 10 | 3 27 | 9 20 | 9 51 | 15 19 | | n.a. |
| F 28 | 0 54 | 20 44 | 4 50 | 12 46 | 2 46 | 17 27 | 1 39 | 6 29 | 0 9 | 1 12 | 1 11 | 21 35 | 1 13 | 23 6 | 0 30 | 22 54 | 0 20 | 19 10 | 3 27 | 9 22 | 9 52 | 15 22 | | n.a. |
| S 29 | 1 18 | 24 21 | 5 8 | 13 11 | 2 49 | 17 52 | 1 42 | 6 46 | 0 9 | 1 7 | 1 11 | 21 35 | 1 13 | 23 6 | 0 30 | 22 54 | 0 20 | 19 10 | 3 27 | 9 23 | 9 53 | 15 25 | | n.a. |
| S 30 | 1s42 | 26n57 | 5n13 | 13s34 | 2s52 | 18s16 | 1s46 | 7s 3 | 0n 8 | 1n 2 | 1n11 | 21n35 | 1s13 | 23n 5 | 0n30 | 22n53 | 0s20 | 19n10 | 3s27 | 9s25 | 9s55 | 15n28 | | n.a. |

Julian Day Number = 1699751.5, Delta T = 03h06m11s
Ecliptic obliquity = 23°42'17, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°52'58, Lahiri = - 4°45'58 Julian Calendar 1 Sept. 60 BCE == Greg. Calendar 30 Aug. 060 BCE

The year -59 astronomical counting style corresponds to year 060 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 60 BCE
# geocentric

## OCTOBER 60 BCE (-59) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 0 28 2 | 5♎14'09 | 19♊40 | 28♎57 | 16♏25 | 18♎48 | 0♎21 | 14°R33 | 17♋ 7 | 11♋14 | 12°R48 | 5°R57 | 4♓36 | 29♈54 | n.a. | M 1 |
| T 2 | 0 31 58 | 6°14'18 | 1♋59 | 29°46 | 17°36 | 19°30 | 0°34 | 14♊33 | 17° 8 | 11°15 | 12♊47 | 5°D56 | 4°33 | 0♉ 1 | n.a. | T 2 |
| W 3 | 0 35 55 | 7°14'29 | 14°35 | 0♏32 | 18°47 | 20°13 | 0°47 | 14°33 | 17°10 | 11°15 | 12°47 | 5♓56 | 4°30 | 0° 8 | n.a. | W 3 |
| T 4 | 0 39 52 | 8°14'42 | 27°33 | 1°13 | 19°58 | 20°56 | 1° 1 | 14°32 | 17°11 | 11°16 | 12°47 | 5°58 | 4°27 | 0°14 | n.a. | T 4 |
| F 5 | 0 43 48 | 9°14'57 | 10♌56 | 1°49 | 21° 9 | 21°39 | 1°14 | 14°31 | 17°12 | 11°16 | 12°46 | 5°59 | 4°24 | 0°21 | n.a. | F 5 |
| S 6 | 0 47 45 | 10°15'14 | 24°47 | 2°20 | 22°19 | 22°22 | 1°27 | 14°31 | 17°13 | 11°16 | 12°46 | 6° 1 | 4°20 | 0°28 | n.a. | S 6 |
| S 7 | 0 51 41 | 11°15'34 | 9♍ 5 | 2°43 | 23°30 | 23° 5 | 1°40 | 14°30 | 17°14 | 11°17 | 12°45 | 6°R 1 | 4°17 | 0°35 | n.a. | S 7 |
| M 8 | 0 55 38 | 12°15'55 | 23°48 | 3° 0 | 24°40 | 23°48 | 1°53 | 14°29 | 17°15 | 11°17 | 12°45 | 6° 0 | 4°14 | 0°41 | n.a. | M 8 |
| T 9 | 0 59 34 | 13°16'18 | 8♎51 | 3° 9 | 25°51 | 24°31 | 2° 6 | 14°28 | 17°16 | 11°17 | 12°44 | 5°57 | 4°11 | 0°48 | n.a. | T 9 |
| W10 | 1 3 31 | 14°16'43 | 24° 4 | 3°R10 | 27° 1 | 25°14 | 2°19 | 14°27 | 17°17 | 11°18 | 12°44 | 5°52 | 4° 8 | 0°55 | n.a. | W10 |
| T 11 | 1 7 27 | 15°17'10 | 9♏18 | 3° 2 | 28°11 | 25°58 | 2°32 | 14°26 | 17°18 | 11°18 | 12°43 | 5°46 | 4° 5 | 1° 1 | n.a. | T 11 |
| F 12 | 1 11 24 | 16°17'39 | 24°22 | 2°45 | 29°22 | 26°41 | 2°45 | 14°24 | 17°19 | 11°18 | 12°43 | 5°40 | 4° 1 | 1° 8 | n.a. | F 12 |
| S 13 | 1 15 21 | 17°18'09 | 9♐ 7 | 2°17 | 0♐32 | 27°24 | 2°58 | 14°23 | 17°20 | 11°18 | 12°42 | 5°34 | 3°58 | 1°15 | n.a. | S 13 |
| S 14 | 1 19 17 | 18°18'41 | 23°28 | 1°39 | 1°42 | 28° 8 | 3°11 | 14°21 | 17°20 | 11°18 | 12°41 | 5°30 | 3°55 | 1°21 | n.a. | S 14 |
| M15 | 1 23 14 | 19°19'14 | 7♑21 | 0°52 | 2°52 | 28°51 | 3°24 | 14°19 | 17°21 | 11°18 | 12°41 | 5°27 | 3°52 | 1°28 | n.a. | M15 |
| T 16 | 1 27 10 | 20°19'48 | 20°47 | 29♎54 | 4° 1 | 29°35 | 3°37 | 14°18 | 17°22 | 11°18 | 12°40 | 5°D27 | 3°49 | 1°35 | n.a. | T 16 |
| W17 | 1 31 7 | 21°20'24 | 3♒49 | 28°49 | 5°11 | 0♏18 | 3°50 | 14°16 | 17°22 | 11°R18 | 12°39 | 5°27 | 3°45 | 1°42 | n.a. | W17 |
| T 18 | 1 35 3 | 22°21'01 | 16°29 | 27°36 | 6°21 | 1° 2 | 4° 2 | 14°14 | 17°23 | 11°18 | 12°39 | 5°29 | 3°42 | 1°48 | n.a. | T 18 |
| F 19 | 1 39 0 | 23°21'39 | 28°53 | 26°18 | 7°30 | 1°45 | 4°15 | 14°12 | 17°23 | 11°18 | 12°38 | 5°30 | 3°39 | 1°55 | n.a. | F 19 |
| S 20 | 1 42 56 | 24°22'19 | 11♓ 5 | 24°57 | 8°39 | 2°29 | 4°28 | 14° 9 | 17°23 | 11°18 | 12°37 | 5°R30 | 3°36 | 2° 2 | n.a. | S 20 |
| S 21 | 1 46 53 | 25°22'59 | 23° 7 | 23°36 | 9°49 | 3°13 | 4°41 | 14° 7 | 17°24 | 11°18 | 12°36 | 5°28 | 3°33 | 2° 8 | n.a. | S 21 |
| M22 | 1 50 50 | 26°23'41 | 5♈ 3 | 22°17 | 10°58 | 3°57 | 4°53 | 14° 4 | 17°24 | 11°18 | 12°36 | 5°24 | 3°30 | 2°15 | n.a. | M22 |
| T 23 | 1 54 46 | 27°24'25 | 16°56 | 21° 4 | 12° 7 | 4°41 | 5° 6 | 14° 2 | 17°24 | 11°18 | 12°35 | 5°17 | 3°26 | 2°22 | n.a. | T 23 |
| W24 | 1 58 43 | 28°25'10 | 28°47 | 19°58 | 13°16 | 5°25 | 5°19 | 13°59 | 17°24 | 11°18 | 12°34 | 5° 8 | 3°23 | 2°28 | n.a. | W24 |
| T 25 | 2 2 39 | 29°25'56 | 10♉39 | 19° 1 | 14°24 | 6° 9 | 5°31 | 13°57 | 17°24 | 11°17 | 12°33 | 4°58 | 3°20 | 2°35 | n.a. | T 25 |
| F 26 | 2 6 36 | 0♏26'44 | 22°32 | 18°15 | 15°33 | 6°53 | 5°44 | 13°54 | 17°R24 | 11°17 | 12°32 | 4°46 | 3°17 | 2°42 | n.a. | F 26 |
| S 27 | 2 10 32 | 1°27'34 | 4♊28 | 17°40 | 16°41 | 7°37 | 5°56 | 13°51 | 17°24 | 11°17 | 12°31 | 4°35 | 3°14 | 2°49 | n.a. | S 27 |
| S 28 | 2 14 29 | 2°28'24 | 16°29 | 17°16 | 17°50 | 8°21 | 6° 9 | 13°48 | 17°24 | 11°16 | 12°30 | 4°25 | 3°10 | 2°55 | n.a. | S 28 |
| M29 | 2 18 25 | 3°29'17 | 28°38 | 17° 5 | 18°58 | 9° 5 | 6°21 | 13°45 | 17°24 | 11°16 | 12°30 | 4°17 | 3° 7 | 3° 2 | n.a. | M29 |
| T 30 | 2 22 22 | 4°30'11 | 10♋57 | 17°D 4 | 20° 6 | 9°49 | 6°34 | 13°42 | 17°24 | 11°15 | 12°29 | 4°12 | 3° 4 | 3° 9 | n.a. | T 30 |
| W31 | 2 26 19 | 5♏31'06 | 23♋30 | 17♎14 | 21♐14 | 10♏34 | 6♎46 | 13♊38 | 17♋24 | 11♋15 | 12♊28 | 4♓ 9 | 3♓ 1 | 3♉15 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| M 1 | 2s 6 | 28n21 | 5n 4 | 13s56 | 2s54 | 18s40 | 1s49 | 7s20 | 0n 7 | 0n56 | 1n11 | 21n35 | 1s13 | 23n 5 | 0n30 | 22n53 | 0s20 | 19n10 | 3s27 | 9s26 | 9s56 | 15n31 | | n.a. | |
| T 2 | 2 30 | 28 23 | 4 41 | 14 15 | 2 56 | 19 3 | 1 52 | 7 37 | 0 7 | 0 51 | 1 11 | 21 35 | 1 13 | 23 5 | 0 30 | 22 53 | 0 20 | 19 10 | 3 27 | 9 26 | 9 57 | 15 34 | | n.a. | |
| W 3 | 2 54 | 26 57 | 4 5 | 14 33 | 2 57 | 19 26 | 1 55 | 7 54 | 0 6 | 0 46 | 1 11 | 21 35 | 1 13 | 23 5 | 0 30 | 22 53 | 0 20 | 19 10 | 3 27 | 9 26 | 9 58 | 15 37 | | n.a. | |
| T 4 | 3 18 | 24 4 | 3 15 | 14 47 | 2 57 | 19 49 | 1 57 | 8 11 | 0 5 | 0 41 | 1 11 | 21 35 | 1 13 | 23 5 | 0 30 | 22 53 | 0 20 | 19 10 | 3 27 | 9 26 | 9 59 | 15 40 | | n.a. | |
| F 5 | 3 42 | 19 48 | 2 13 | 14 59 | 2 56 | 20 11 | 2 0 | 8 27 | 0 5 | 0 35 | 1 11 | 21 35 | 1 13 | 23 5 | 0 30 | 22 53 | 0 20 | 19 9 | 3 27 | 9 25 | 10 0 | 15 42 | | n.a. | |
| S 6 | 4 6 | 14 22 | 1 1 | 15 8 | 2 55 | 20 32 | 2 3 | 8 44 | 0 4 | 0 30 | 1 11 | 21 35 | 1 13 | 23 5 | 0 30 | 22 53 | 0 20 | 19 9 | 3 27 | 9 24 | 10 2 | 15 45 | | n.a. | |
| S 7 | 4 30 | 8 0 | 0s17 | 15 14 | 2 52 | 20 53 | 2 6 | 9 1 | 0 3 | 0 25 | 1 11 | 21 35 | 1 13 | 23 5 | 0 30 | 22 53 | 0 20 | 19 9 | 3 27 | 9 24 | 10 3 | 15 48 | | n.a. | |
| M 8 | 4 54 | 1 2 | 1 35 | 15 16 | 2 48 | 21 13 | 2 9 | 9 18 | 0 3 | 0 20 | 1 11 | 21 35 | 1 13 | 23 4 | 0 30 | 22 53 | 0 20 | 19 9 | 3 27 | 9 25 | 10 4 | 15 51 | | n.a. | |
| T 9 | 5 18 | 6s 8 | 2 49 | 15 15 | 2 43 | 21 33 | 2 11 | 9 34 | 0 2 | 0 14 | 1 11 | 21 35 | 1 13 | 23 4 | 0 30 | 22 53 | 0 20 | 19 9 | 3 27 | 9 26 | 10 5 | 15 54 | | n.a. | |
| W10 | 5 41 | 13 1 | 3 51 | 15 9 | 2 36 | 21 53 | 2 14 | 9 51 | 0 1 | 0 9 | 1 11 | 21 34 | 1 13 | 23 4 | 0 30 | 22 53 | 0 20 | 19 9 | 3 27 | 9 28 | 10 6 | 15 57 | | n.a. | |
| T 11 | 6 5 | 19 8 | 4 37 | 14 58 | 2 28 | 22 11 | 2 16 | 10 7 | 0 1 | 0 4 | 1 11 | 21 34 | 1 13 | 23 4 | 0 30 | 22 53 | 0 20 | 19 9 | 3 27 | 9 30 | 10 7 | 16 0 | | n.a. | |
| F 12 | 6 29 | 23 58 | 5 4 | 14 43 | 2 18 | 22 30 | 2 19 | 10 24 | 0 0 | 0s 1 | 1 11 | 21 34 | 1 13 | 23 4 | 0 30 | 22 53 | 0 20 | 19 9 | 3 27 | 9 32 | 10 9 | 16 2 | | n.a. | |
| S 13 | 6 52 | 27 9 | 5 9 | 14 22 | 2 6 | 22 47 | 2 21 | 10 40 | 0s 0 | 0 6 | 1 11 | 21 34 | 1 13 | 23 4 | 0 30 | 22 53 | 0 20 | 19 9 | 3 27 | 9 34 | 10 10 | 16 5 | | n.a. | |
| S 14 | 7 15 | 28 27 | 4 55 | 13 57 | 1 53 | 23 4 | 2 23 | 10 57 | 0 1 | 0 12 | 1 11 | 21 34 | 1 13 | 23 4 | 0 30 | 22 53 | 0 20 | 19 9 | 3 27 | 9 36 | 10 11 | 16 8 | | n.a. | |
| M15 | 7 39 | 27 53 | 4 23 | 13 26 | 1 38 | 23 21 | 2 26 | 11 13 | 0 2 | 0 17 | 1 11 | 21 33 | 1 13 | 23 4 | 0 30 | 22 53 | 0 20 | 19 9 | 3 27 | 9 37 | 10 12 | 16 11 | | n.a. | |
| T 16 | 8 2 | 25 40 | 3 38 | 12 50 | 1 21 | 23 36 | 2 28 | 11 29 | 0 2 | 0 22 | 1 11 | 21 33 | 1 14 | 23 4 | 0 30 | 22 53 | 0 20 | 19 9 | 3 27 | 9 37 | 10 13 | 16 14 | | n.a. | |
| W17 | 8 25 | 22 9 | 2 43 | 12 9 | 1 3 | 23 51 | 2 30 | 11 45 | 0 3 | 0 27 | 1 11 | 21 33 | 1 14 | 23 4 | 0 30 | 22 53 | 0 20 | 19 8 | 3 27 | 9 37 | 10 14 | 16 17 | | n.a. | |
| T 18 | 8 48 | 17 40 | 1 41 | 11 25 | 0 44 | 24 6 | 2 32 | 12 1 | 0 4 | 0 32 | 1 11 | 21 33 | 1 14 | 23 4 | 0 30 | 22 53 | 0 20 | 19 8 | 3 27 | 9 36 | 10 16 | 16 19 | | n.a. | |
| F 19 | 9 10 | 12 33 | 0 36 | 10 37 | 0 24 | 24 20 | 2 34 | 12 17 | 0 4 | 0 37 | 1 11 | 21 32 | 1 14 | 23 4 | 0 30 | 22 53 | 0 20 | 19 8 | 3 27 | 9 36 | 10 17 | 16 22 | | n.a. | |
| S 20 | 9 33 | 7 2 | 0n30 | 9 48 | 0 3 | 24 33 | 2 36 | 12 33 | 0 5 | 0 42 | 1 11 | 21 32 | 1 14 | 23 4 | 0 30 | 22 53 | 0 20 | 19 8 | 3 27 | 9 36 | 10 18 | 16 25 | | n.a. | |
| S 21 | 9 55 | 1 20 | 1 33 | 8 59 | 0n18 | 24 46 | 2 37 | 12 49 | 0 6 | 0 47 | 1 11 | 21 32 | 1 14 | 23 4 | 0 31 | 22 53 | 0 20 | 19 8 | 3 27 | 9 37 | 10 19 | 16 28 | | n.a. | |
| M22 | 10 18 | 4n21 | 2 32 | 8 11 | 0 38 | 24 57 | 2 39 | 13 4 | 0 6 | 0 52 | 1 11 | 21 31 | 1 14 | 23 4 | 0 31 | 22 53 | 0 20 | 19 8 | 3 27 | 9 38 | 10 20 | 16 31 | | n.a. | |
| T 23 | 10 40 | 9 51 | 3 24 | 7 26 | 0 57 | 25 9 | 2 40 | 13 20 | 0 7 | 0 57 | 1 12 | 21 31 | 1 14 | 23 4 | 0 31 | 22 53 | 0 20 | 19 8 | 3 27 | 9 41 | 10 21 | 16 33 | | n.a. | |
| W24 | 11 2 | 14 59 | 4 6 | 6 44 | 1 15 | 25 19 | 2 42 | 13 35 | 0 8 | 1 2 | 1 12 | 21 31 | 1 14 | 23 4 | 0 31 | 22 53 | 0 20 | 19 8 | 3 27 | 9 44 | 10 23 | 16 36 | | n.a. | |
| T 25 | 11 24 | 19 34 | 4 38 | 6 8 | 1 31 | 25 29 | 2 43 | 13 51 | 0 8 | 1 7 | 1 12 | 21 31 | 1 14 | 23 4 | 0 31 | 22 53 | 0 20 | 19 8 | 3 27 | 9 48 | 10 24 | 16 39 | | n.a. | |
| F 26 | 11 45 | 23 23 | 4 57 | 5 37 | 1 45 | 25 38 | 2 44 | 14 6 | 0 9 | 1 12 | 1 12 | 21 30 | 1 14 | 23 4 | 0 31 | 22 53 | 0 20 | 19 7 | 3 27 | 9 52 | 10 25 | 16 42 | | n.a. | |
| S 27 | 12 7 | 26 15 | 5 4 | 5 12 | 1 57 | 25 47 | 2 46 | 14 21 | 0 9 | 1 17 | 1 12 | 21 30 | 1 14 | 23 4 | 0 31 | 22 53 | 0 20 | 19 7 | 3 27 | 9 56 | 10 26 | 16 45 | | n.a. | |
| S 28 | 12 28 | 27 57 | 4 58 | 4 54 | 2 8 | 25 54 | 2 47 | 14 36 | 0 10 | 1 22 | 1 12 | 21 29 | 1 14 | 23 4 | 0 31 | 22 53 | 0 20 | 19 7 | 3 27 | 10 0 | 10 27 | 16 47 | | n.a. | |
| M29 | 12 49 | 28 19 | 4 37 | 4 41 | 2 16 | 26 1 | 2 47 | 14 51 | 0 11 | 1 27 | 1 12 | 21 29 | 1 14 | 23 4 | 0 31 | 22 53 | 0 20 | 19 7 | 3 27 | 10 3 | 10 28 | 16 50 | | n.a. | |
| T 30 | 13 10 | 27 18 | 4 4 | 4 35 | 2 22 | 26 8 | 2 48 | 15 6 | 0 11 | 1 32 | 1 12 | 21 29 | 1 14 | 23 4 | 0 31 | 22 53 | 0 20 | 19 7 | 3 27 | 10 5 | 10 29 | 16 53 | | n.a. | |
| W31 | 13s30 | 24n54 | 3n19 | 4s35 | 2n27 | 26s13 | 2s49 | 15s21 | 0s12 | 1s37 | 1n12 | 21n28 | 1s14 | 23n 4 | 0n31 | 22n53 | 0s20 | 19n 7 | 3s27 | 10s 6 | 10s31 | 16n56 | | n.a. | |

Julian Day Number = 1699781.5, Delta T = 03h06m10s
Ecliptic obliquity = 23°42'17, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°52'54, Lahiri = - 4°45'54 Julian Calendar 1 Oct. 60 BCE == Greg. Calendar 29 Sept. 060 BCE

The year -59 astronomical counting style corresponds to year 060 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 60 BCE
# geocentric

## NOVEMBER 60 BCE (-59) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 2 30 15 | 6♏32'03 | 6♌22 | 17♎34 | 22♐21 | 11♏18 | 6♎58 | 13°R35 | 17°R23 | 11°R15 | 12°R27 | 4°D 8 | 2♓58 | 3♉22 | n.a. | T 1 |
| F 2 | 2 34 12 | 7°33'01 | 19°35 | 18° 2 | 23°29 | 12° 3 | 7°11 | 13♊31 | 17♋23 | 11♋14 | 12♊26 | 4♓ 9 | 2°55 | 3°29 | n.a. | F 2 |
| S 3 | 2 38 8 | 8°34'00 | 3♍13 | 18°38 | 24°36 | 12°47 | 7°23 | 13°28 | 17°23 | 11°13 | 12°25 | 4°R 9 | 2°51 | 3°36 | n.a. | S 3 |
| S 4 | 2 42 5 | 9°35'01 | 17°19 | 19°22 | 25°43 | 13°32 | 7°35 | 13°24 | 17°22 | 11°13 | 12°24 | 4° 8 | 2°48 | 3°42 | n.a. | S 4 |
| M 5 | 2 46 1 | 10°36'03 | 1♎53 | 20°11 | 26°50 | 14°16 | 7°47 | 13°20 | 17°22 | 11°12 | 12°23 | 4° 6 | 2°45 | 3°49 | n.a. | M 5 |
| T 6 | 2 49 58 | 11°37'06 | 16°50 | 21° 7 | 27°57 | 15° 1 | 7°59 | 13°17 | 17°21 | 11°12 | 12°22 | 4° 0 | 2°42 | 3°56 | n.a. | T 6 |
| W 7 | 2 53 54 | 12°38'11 | 2♏ 3 | 22° 7 | 29° 4 | 15°45 | 8°11 | 13°13 | 17°20 | 11°11 | 12°21 | 3°52 | 2°39 | 4° 2 | n.a. | W 7 |
| T 8 | 2 57 51 | 13°39'17 | 17°24 | 23°11 | 0♑10 | 16°30 | 8°23 | 13° 9 | 17°20 | 11°10 | 12°20 | 3°42 | 2°36 | 4° 9 | n.a. | T 8 |
| F 9 | 3 1 48 | 14°40'23 | 2♐39 | 24°18 | 1°16 | 17°15 | 8°35 | 13° 5 | 17°19 | 11° 9 | 12°19 | 3°31 | 2°32 | 4°16 | n.a. | F 9 |
| S 10 | 3 5 44 | 15°41'31 | 17°38 | 25°29 | 2°22 | 18° 0 | 8°47 | 13° 1 | 17°18 | 11° 9 | 12°17 | 3°20 | 2°29 | 4°22 | n.a. | S 10 |
| S 11 | 3 9 41 | 16°42'39 | 2♑12 | 26°43 | 3°28 | 18°45 | 8°58 | 12°57 | 17°17 | 11° 8 | 12°16 | 3°11 | 2°26 | 4°29 | n.a. | S 11 |
| M12 | 3 13 37 | 17°43'47 | 16°17 | 27°59 | 4°33 | 19°30 | 9°10 | 12°52 | 17°16 | 11° 7 | 12°15 | 3° 5 | 2°23 | 4°36 | n.a. | M12 |
| T 13 | 3 17 34 | 18°44'56 | 29°52 | 29°17 | 5°39 | 20°15 | 9°22 | 12°48 | 17°15 | 11° 6 | 12°14 | 3° 2 | 2°20 | 4°43 | n.a. | T 13 |
| W14 | 3 21 30 | 19°46'06 | 12♒57 | 0♏37 | 6°44 | 21° 0 | 9°33 | 12°44 | 17°14 | 11° 5 | 12°13 | 3° 0 | 2°16 | 4°49 | n.a. | W14 |
| T 15 | 3 25 27 | 20°47'16 | 25°38 | 1°59 | 7°48 | 21°45 | 9°45 | 12°39 | 17°13 | 11° 4 | 12°12 | 3°D 0 | 2°13 | 4°56 | n.a. | T 15 |
| F 16 | 3 29 23 | 21°48'26 | 8♓ 0 | 3°21 | 8°53 | 22°30 | 9°56 | 12°35 | 17°12 | 11° 3 | 12°11 | 3°R 0 | 2°10 | 5° 3 | n.a. | F 16 |
| S 17 | 3 33 20 | 22°49'36 | 20° 6 | 4°45 | 9°57 | 23°15 | 10° 7 | 12°30 | 17°11 | 11° 2 | 12°10 | 2°59 | 2° 7 | 5° 9 | n.a. | S 17 |
| S 18 | 3 37 17 | 23°50'47 | 2♈ 3 | 6°10 | 11° 1 | 24° 0 | 10°19 | 12°26 | 17°10 | 11° 1 | 12° 8 | 2°56 | 2° 4 | 5°16 | n.a. | S 18 |
| M19 | 3 41 13 | 24°51'58 | 13°54 | 7°36 | 12° 4 | 24°45 | 10°30 | 12°21 | 17° 9 | 11° 0 | 12° 7 | 2°50 | 2° 1 | 5°23 | n.a. | M19 |
| T 20 | 3 45 10 | 25°53'10 | 25°44 | 9° 2 | 13° 7 | 25°31 | 10°41 | 12°17 | 17° 7 | 10°59 | 12° 6 | 2°41 | 1°57 | 5°30 | n.a. | T 20 |
| W21 | 3 49 6 | 26°54'21 | 7♉35 | 10°30 | 14°10 | 26°16 | 10°52 | 12°12 | 17° 6 | 10°58 | 12° 5 | 2°29 | 1°54 | 5°36 | n.a. | W21 |
| T 22 | 3 53 3 | 27°55'34 | 19°29 | 11°58 | 15°13 | 27° 1 | 11° 3 | 12° 7 | 17° 5 | 10°57 | 12° 4 | 2°15 | 1°51 | 5°43 | n.a. | T 22 |
| F 23 | 3 56 59 | 28°56'46 | 1♊28 | 13°26 | 16°15 | 27°47 | 11°14 | 12° 3 | 17° 3 | 10°56 | 12° 2 | 1°59 | 1°48 | 5°50 | n.a. | F 23 |
| S 24 | 4 0 56 | 29°57'59 | 13°32 | 14°55 | 17°16 | 28°32 | 11°24 | 11°58 | 17° 2 | 10°55 | 12° 1 | 1°45 | 1°45 | 5°56 | n.a. | S 24 |
| S 25 | 4 4 53 | 0♐59'12 | 25°43 | 16°24 | 18°18 | 29°18 | 11°35 | 11°53 | 17° 0 | 10°54 | 12° 0 | 1°31 | 1°42 | 6° 3 | n.a. | S 25 |
| M26 | 4 8 49 | 2° 0'26 | 8♋ 1 | 17°54 | 19°19 | 0♐ 3 | 11°46 | 11°48 | 16°59 | 10°52 | 11°59 | 1°20 | 1°38 | 6°10 | n.a. | M26 |
| T 27 | 4 12 46 | 3° 1'40 | 20°29 | 19°24 | 20°19 | 0°49 | 11°56 | 11°43 | 16°57 | 10°51 | 11°58 | 1°12 | 1°35 | 6°17 | n.a. | T 27 |
| W28 | 4 16 42 | 4° 2'55 | 3♌ 8 | 20°55 | 21°19 | 1°34 | 12° 6 | 11°38 | 16°55 | 10°50 | 11°56 | 1° 7 | 1°32 | 6°23 | n.a. | W28 |
| T 29 | 4 20 39 | 5° 4'09 | 16° 1 | 22°26 | 22°19 | 2°20 | 12°17 | 11°33 | 16°54 | 10°49 | 11°55 | 1° 5 | 1°29 | 6°30 | n.a. | T 29 |
| F 30 | 4 24 35 | 6♐ 5'25 | 29♌11 | 23♏57 | 23♑18 | 3♐ 6 | 12♎27 | 11♊28 | 16♋52 | 10♋47 | 11♊54 | 1♓ 4 | 1♓26 | 6♉37 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 13s51 | 21n11 | 2n22 | 4s39 | 2n30 | 26s18 | 2s49 | 15s35 | 0s13 | 1s42 | 1n12 | 21n28 | 1s14 | 23n 4 | 0n31 | 22n53 | 0s20 | 19n 7 | 3s27 | 10s 6 | 10s32 | 16n58 | | n.a. |
| F 2 | 14 11 | 16 19 | 1 17 | 4 49 | 2 32 | 26 22 | 2 50 | 15 50 | 0 13 | 1 47 | 1 12 | 21 27 | 1 14 | 23 4 | 0 31 | 22 53 | 0 20 | 19 7 | 3 27 | 10 6 | 10 33 | 17 1 | | n.a. |
| S 3 | 14 31 | 10 31 | 0 5 | 5 2 | 2 32 | 26 26 | 2 50 | 16 4 | 0 14 | 1 51 | 1 12 | 21 27 | 1 14 | 23 4 | 0 31 | 22 54 | 0 20 | 19 7 | 3 27 | 10 6 | 10 34 | 17 4 | | n.a. |
| S 4 | 14 51 | 4 0 | 1s10 | 5 20 | 2 31 | 26 28 | 2 50 | 16 18 | 0 15 | 1 56 | 1 12 | 21 27 | 1 14 | 23 4 | 0 31 | 22 54 | 0 20 | 19 6 | 3 27 | 10 6 | 10 35 | 17 7 | | n.a. |
| M 5 | 15 10 | 2s55 | 2 22 | 5 40 | 2 30 | 26 30 | 2 51 | 16 32 | 0 15 | 2 1 | 1 12 | 21 26 | 1 14 | 23 5 | 0 31 | 22 54 | 0 20 | 19 6 | 3 27 | 10 7 | 10 36 | 17 9 | | n.a. |
| T 6 | 15 29 | 9 51 | 3 26 | 6 3 | 2 27 | 26 32 | 2 50 | 16 46 | 0 16 | 2 6 | 1 12 | 21 26 | 1 14 | 23 5 | 0 31 | 22 54 | 0 20 | 19 6 | 3 27 | 10 9 | 10 38 | 17 12 | | n.a. |
| W 7 | 15 48 | 16 20 | 4 17 | 6 29 | 2 24 | 26 32 | 2 50 | 17 0 | 0 16 | 2 10 | 1 13 | 21 25 | 1 14 | 23 5 | 0 31 | 22 54 | 0 20 | 19 6 | 3 27 | 10 12 | 10 39 | 17 15 | | n.a. |
| T 8 | 16 7 | 21 50 | 4 50 | 6 57 | 2 20 | 26 32 | 2 50 | 17 14 | 0 17 | 2 15 | 1 13 | 21 25 | 1 13 | 23 5 | 0 31 | 22 54 | 0 20 | 19 6 | 3 27 | 10 16 | 10 40 | 17 18 | | n.a. |
| F 9 | 16 25 | 25 51 | 5 2 | 7 26 | 2 15 | 26 31 | 2 49 | 17 27 | 0 18 | 2 20 | 1 13 | 21 24 | 1 13 | 23 5 | 0 31 | 22 54 | 0 20 | 19 6 | 3 27 | 10 20 | 10 41 | 17 20 | | n.a. |
| S 10 | 16 43 | 27 58 | 4 52 | 7 57 | 2 10 | 26 30 | 2 49 | 17 41 | 0 18 | 2 24 | 1 13 | 21 24 | 1 13 | 23 5 | 0 31 | 22 54 | 0 20 | 19 6 | 3 27 | 10 24 | 10 42 | 17 23 | | n.a. |
| S 11 | 17 1 | 28 5 | 4 24 | 8 29 | 2 4 | 26 28 | 2 48 | 17 54 | 0 19 | 2 29 | 1 13 | 21 23 | 1 13 | 23 5 | 0 31 | 22 54 | 0 20 | 19 6 | 3 27 | 10 27 | 10 43 | 17 26 | | n.a. |
| M12 | 17 18 | 26 21 | 3 41 | 9 2 | 1 59 | 26 25 | 2 47 | 18 7 | 0 20 | 2 33 | 1 13 | 21 23 | 1 13 | 23 5 | 0 31 | 22 54 | 0 20 | 19 5 | 3 27 | 10 29 | 10 44 | 17 28 | | n.a. |
| T 13 | 17 36 | 23 6 | 2 46 | 9 36 | 1 52 | 26 21 | 2 46 | 18 20 | 0 20 | 2 38 | 1 13 | 21 22 | 1 13 | 23 6 | 0 31 | 22 54 | 0 20 | 19 5 | 3 27 | 10 30 | 10 46 | 17 31 | | n.a. |
| W14 | 17 52 | 18 46 | 1 44 | 10 10 | 1 46 | 26 17 | 2 45 | 18 32 | 0 21 | 2 42 | 1 13 | 21 22 | 1 13 | 23 6 | 0 31 | 22 54 | 0 20 | 19 5 | 3 27 | 10 31 | 10 47 | 17 34 | | n.a. |
| T 15 | 18 9 | 13 43 | 0 39 | 10 45 | 1 39 | 26 12 | 2 44 | 18 45 | 0 22 | 2 47 | 1 13 | 21 21 | 1 13 | 23 6 | 0 31 | 22 54 | 0 20 | 19 5 | 3 27 | 10 31 | 10 48 | 17 37 | | n.a. |
| F 16 | 18 25 | 8 15 | 0n26 | 11 19 | 1 32 | 26 6 | 2 42 | 18 57 | 0 22 | 2 51 | 1 13 | 21 21 | 1 13 | 23 6 | 0 31 | 22 54 | 0 20 | 19 5 | 3 27 | 10 31 | 10 49 | 17 39 | | n.a. |
| S 17 | 18 41 | 2 36 | 1 29 | 11 55 | 1 25 | 26 0 | 2 40 | 19 9 | 0 23 | 2 56 | 1 14 | 21 20 | 1 13 | 23 6 | 0 31 | 22 54 | 0 20 | 19 5 | 3 27 | 10 31 | 10 50 | 17 42 | | n.a. |
| S 18 | 18 56 | 3n 4 | 2 27 | 12 30 | 1 18 | 25 53 | 2 39 | 19 21 | 0 23 | 3 0 | 1 14 | 21 20 | 1 13 | 23 7 | 0 31 | 22 55 | 0 20 | 19 5 | 3 27 | 10 33 | 10 51 | 17 45 | | n.a. |
| M19 | 19 12 | 8 35 | 3 18 | 13 5 | 1 11 | 25 45 | 2 37 | 19 33 | 0 24 | 3 4 | 1 14 | 21 19 | 1 13 | 23 7 | 0 32 | 22 55 | 0 20 | 19 5 | 3 27 | 10 35 | 10 53 | 17 47 | | n.a. |
| T 20 | 19 26 | 13 46 | 4 0 | 13 40 | 1 4 | 25 37 | 2 35 | 19 45 | 0 25 | 3 9 | 1 14 | 21 19 | 1 13 | 23 7 | 0 32 | 22 55 | 0 20 | 19 5 | 3 27 | 10 38 | 10 54 | 17 50 | | n.a. |
| W21 | 19 41 | 18 28 | 4 32 | 14 14 | 0 57 | 25 28 | 2 32 | 19 56 | 0 25 | 3 13 | 1 14 | 21 18 | 1 13 | 23 7 | 0 32 | 22 55 | 0 20 | 19 4 | 3 27 | 10 42 | 10 55 | 17 53 | | n.a. |
| T 22 | 19 55 | 22 28 | 4 52 | 14 49 | 0 49 | 25 18 | 2 30 | 20 8 | 0 26 | 3 17 | 1 14 | 21 17 | 1 13 | 23 7 | 0 32 | 22 55 | 0 20 | 19 4 | 3 27 | 10 47 | 10 56 | 17 55 | | n.a. |
| F 23 | 20 9 | 25 33 | 4 59 | 15 23 | 0 42 | 25 8 | 2 27 | 20 19 | 0 26 | 3 21 | 1 14 | 21 17 | 1 13 | 23 8 | 0 32 | 22 55 | 0 20 | 19 4 | 3 27 | 10 53 | 10 57 | 17 58 | | n.a. |
| S 24 | 20 22 | 27 31 | 4 53 | 15 56 | 0 35 | 24 58 | 2 24 | 20 30 | 0 27 | 3 25 | 1 14 | 21 16 | 1 13 | 23 8 | 0 32 | 22 55 | 0 20 | 19 4 | 3 27 | 10 58 | 10 58 | 18 1 | | n.a. |
| S 25 | 20 35 | 28 11 | 4 33 | 16 29 | 0 27 | 24 46 | 2 21 | 20 40 | 0 28 | 3 29 | 1 14 | 21 16 | 1 13 | 23 8 | 0 32 | 22 55 | 0 20 | 19 4 | 3 27 | 11 3 | 10 59 | 18 3 | | n.a. |
| M26 | 20 48 | 27 28 | 4 1 | 17 2 | 0 20 | 24 34 | 2 18 | 20 51 | 0 28 | 3 33 | 1 15 | 21 15 | 1 13 | 23 8 | 0 32 | 22 55 | 0 20 | 19 4 | 3 27 | 11 7 | 11 1 | 18 6 | | n.a. |
| T 27 | 21 0 | 25 21 | 3 16 | 17 34 | 0 13 | 24 22 | 2 15 | 21 1 | 0 29 | 3 37 | 1 15 | 21 15 | 1 12 | 23 8 | 0 32 | 22 55 | 0 20 | 19 4 | 3 27 | 11 10 | 11 2 | 18 8 | | n.a. |
| W28 | 21 11 | 21 58 | 2 22 | 18 5 | 0 6 | 24 9 | 2 11 | 21 11 | 0 29 | 3 41 | 1 15 | 21 14 | 1 12 | 23 9 | 0 32 | 22 56 | 0 20 | 19 4 | 3 27 | 11 12 | 11 3 | 18 11 | | n.a. |
| T 29 | 21 23 | 17 27 | 1 19 | 18 36 | 0s 1 | 23 56 | 2 8 | 21 21 | 0 30 | 3 45 | 1 15 | 21 13 | 1 12 | 23 9 | 0 32 | 22 56 | 0 20 | 19 3 | 3 26 | 11 13 | 11 4 | 18 14 | | n.a. |
| F 30 | 21s34 | 12n 2 | 0n10 | 19s 6 | 0s 8 | 23s42 | 2s 4 | 21s31 | 0s31 | 3s49 | 1n15 | 21n13 | 1s12 | 23n 9 | 0n32 | 22n56 | 0s20 | 19n 3 | 3s26 | 11s13 | 11s 5 | 18n16 | | n.a. |

Julian Day Number = 1699812.5, Delta T = 03h06m09s
Ecliptic obliquity = 23°42'16, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°52'50, Lahiri = - 4°45'50 Julian Calendar 1 Nov. 60 BCE == Greg. Calendar 30 Oct. 060 BCE

The year -59 astronomical counting style corresponds to year 060 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 60 BCE
# geocentric

## DECEMBER 60 BCE (-59) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 4 28 32 | 7♐ 6'40 | 12♍41 | 25♏28 | 24♑17 | 3♐52 | 12♎37 | 11°R23 | 16°R50 | 10°R46 | 11°R53 | 1°R 4 | 1♓22 | 6♉43 | n.a. | S 1 |
| S 2 | 4 32 28 | 8° 7'56 | 26°34 | 27° 0 | 25°15 | 4°37 | 12°47 | 11♊18 | 16♋48 | 10♋45 | 11♊51 | 1♓ 3 | 1°19 | 6°50 | n.a. | S 2 |
| M 3 | 4 36 25 | 9° 9'12 | 10♎50 | 28°33 | 26°13 | 5°23 | 12°57 | 11°13 | 16°46 | 10°43 | 11°50 | 1° 0 | 1°16 | 6°57 | n.a. | M 3 |
| T 4 | 4 40 22 | 10°10'28 | 25°28 | 0♐ 5 | 27°10 | 6° 9 | 13° 7 | 11° 8 | 16°44 | 10°42 | 11°49 | 0°55 | 1°13 | 7° 3 | n.a. | T 4 |
| W 5 | 4 44 18 | 11°11'44 | 10♏24 | 1°38 | 28° 7 | 6°55 | 13°16 | 11° 4 | 16°42 | 10°40 | 11°48 | 0°46 | 1°10 | 7°10 | n.a. | W 5 |
| T 6 | 4 48 15 | 12°13'01 | 25°30 | 3°11 | 29° 3 | 7°41 | 13°26 | 10°59 | 16°41 | 10°39 | 11°47 | 0°35 | 1° 7 | 7°17 | n.a. | T 6 |
| F 7 | 4 52 11 | 13°14'18 | 10♐36 | 4°45 | 29°59 | 8°27 | 13°36 | 10°54 | 16°38 | 10°37 | 11°45 | 0°24 | 1° 3 | 7°24 | n.a. | F 7 |
| S 8 | 4 56 8 | 14°15'34 | 25°32 | 6°19 | 0♒53 | 9°13 | 13°45 | 10°49 | 16°36 | 10°36 | 11°44 | 0°12 | 1° 0 | 7°30 | n.a. | S 8 |
| S 9 | 5 0 4 | 15°16'50 | 10♑ 9 | 7°53 | 1°48 | 9°59 | 13°54 | 10°44 | 16°34 | 10°35 | 11°43 | 0° 3 | 0°57 | 7°37 | n.a. | S 9 |
| M10 | 5 4 1 | 16°18'06 | 24°20 | 9°28 | 2°41 | 10°45 | 14° 3 | 10°39 | 16°32 | 10°33 | 11°42 | 29♒55 | 0°54 | 7°44 | n.a. | M10 |
| T 11 | 5 7 58 | 17°19'21 | 8♒ 2 | 11° 3 | 3°34 | 11°31 | 14°12 | 10°34 | 16°30 | 10°32 | 11°40 | 29°51 | 0°51 | 7°50 | n.a. | T 11 |
| W12 | 5 11 54 | 18°20'35 | 21°15 | 12°39 | 4°26 | 12°18 | 14°21 | 10°29 | 16°28 | 10°30 | 11°39 | 29°49 | 0°48 | 7°57 | n.a. | W12 |
| T 13 | 5 15 51 | 19°21'48 | 4♓ 2 | 14°15 | 5°18 | 13° 4 | 14°30 | 10°24 | 16°26 | 10°28 | 11°38 | 29°D49 | 0°44 | 8° 4 | n.a. | T 13 |
| F 14 | 5 19 47 | 20°23'01 | 16°27 | 15°51 | 6° 8 | 13°50 | 14°39 | 10°19 | 16°23 | 10°27 | 11°37 | 29°R49 | 0°41 | 8°11 | n.a. | F 14 |
| S 15 | 5 23 44 | 21°24'13 | 28°36 | 17°28 | 6°58 | 14°36 | 14°47 | 10°14 | 16°21 | 10°25 | 11°35 | 29°49 | 0°38 | 8°17 | n.a. | S 15 |
| S 16 | 5 27 40 | 22°25'24 | 10♈33 | 19° 6 | 7°47 | 15°23 | 14°56 | 10° 9 | 16°19 | 10°24 | 11°34 | 29°47 | 0°35 | 8°24 | n.a. | S 16 |
| M17 | 5 31 37 | 23°26'35 | 22°24 | 20°44 | 8°35 | 16° 9 | 15° 4 | 10° 5 | 16°16 | 10°22 | 11°33 | 29°43 | 0°32 | 8°31 | n.a. | M17 |
| T 18 | 5 35 33 | 24°27'44 | 4♉14 | 22°22 | 9°22 | 16°55 | 15°12 | 10° 0 | 16°14 | 10°21 | 11°32 | 29°36 | 0°28 | 8°37 | n.a. | T 18 |
| W19 | 5 39 30 | 25°28'53 | 16° 6 | 24° 1 | 10° 8 | 17°42 | 15°20 | 9°55 | 16°12 | 10°19 | 11°31 | 29°27 | 0°25 | 8°44 | n.a. | W19 |
| T 20 | 5 43 27 | 26°30'01 | 28° 4 | 25°40 | 10°53 | 18°28 | 15°28 | 9°50 | 16° 9 | 10°17 | 11°29 | 29°16 | 0°22 | 8°51 | n.a. | T 20 |
| F 21 | 5 47 23 | 27°31'08 | 10♊ 9 | 27°20 | 11°37 | 19°15 | 15°36 | 9°46 | 16° 7 | 10°16 | 11°28 | 29° 3 | 0°19 | 8°58 | n.a. | F 21 |
| S 22 | 5 51 20 | 28°32'14 | 22°24 | 29° 1 | 12°20 | 20° 1 | 15°44 | 9°41 | 16° 4 | 10°14 | 11°27 | 28°51 | 0°16 | 9° 4 | n.a. | S 22 |
| S 23 | 5 55 16 | 29°33'20 | 4♋48 | 0♑42 | 13° 2 | 20°48 | 15°51 | 9°37 | 16° 2 | 10°12 | 11°26 | 28°40 | 0°13 | 9°11 | n.a. | S 23 |
| M24 | 5 59 13 | 0♑34'25 | 17°23 | 2°24 | 13°43 | 21°34 | 15°59 | 9°32 | 16° 0 | 10°11 | 11°25 | 28°31 | 0° 9 | 9°18 | n.a. | M24 |
| T 25 | 6 3 9 | 1°35'28 | 0♌ 8 | 4° 6 | 14°22 | 22°21 | 16° 6 | 9°28 | 15°57 | 10° 9 | 11°24 | 28°25 | 0° 6 | 9°25 | n.a. | T 25 |
| W26 | 6 7 6 | 2°36'31 | 13° 4 | 5°49 | 15° 0 | 23° 7 | 16°13 | 9°23 | 15°55 | 10° 7 | 11°22 | 28°21 | 0° 3 | 9°31 | n.a. | W26 |
| T 27 | 6 11 2 | 3°37'34 | 26°11 | 7°32 | 15°37 | 23°54 | 16°20 | 9°19 | 15°52 | 10° 6 | 11°21 | 28°D20 | 29♒59 | 9°38 | n.a. | T 27 |
| F 28 | 6 14 59 | 4°38'35 | 9♍31 | 9°16 | 16°12 | 24°41 | 16°27 | 9°15 | 15°49 | 10° 4 | 11°20 | 28°20 | 29°57 | 9°45 | n.a. | F 28 |
| S 29 | 6 18 56 | 5°39'36 | 23° 5 | 11° 0 | 16°46 | 25°27 | 16°34 | 9°11 | 15°47 | 10° 2 | 11°19 | 28°22 | 29°54 | 9°51 | n.a. | S 29 |
| S 30 | 6 22 52 | 6°40'35 | 6♎54 | 12°45 | 17°19 | 26°14 | 16°40 | 9° 6 | 15°44 | 10° 1 | 11°18 | 28°R22 | 29°50 | 9°58 | n.a. | S 30 |
| M31 | 6 26 49 | 7♑41'35 | 20♎58 | 14♑30 | 17♒50 | 27♐ 1 | 16♎47 | 9♊ 2 | 15♋42 | 9♋59 | 11♊17 | 28♒21 | 29♒47 | 10♉ 5 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21s44 | 5n56 | 1s 1 | 19s35 | 0s15 | 23s27 | 2s 0 | 21s40 | 0s31 | 3s53 | 1n15 | 21n12 | 1s12 | 23n 9 | 0n32 | 22n56 | 0s20 | 19n 3 | 3s26 | 11s13 | 11s 6 | 18n19 | | n.a. |
| S 2 | 21 54 | 0s37 | 2 10 | 20 3 | 0 22 | 23 13 | 1 55 | 21 49 | 0 32 | 3 57 | 1 15 | 21 12 | 1 12 | 23 10 | 0 32 | 22 56 | 0 20 | 19 3 | 3 26 | 11 13 | 11 7 | 18 22 | | n.a. |
| M 3 | 22 4 | 7 18 | 3 13 | 20 31 | 0 28 | 22 57 | 1 51 | 21 58 | 0 32 | 4 1 | 1 16 | 21 11 | 1 12 | 23 10 | 0 32 | 22 56 | 0 20 | 19 3 | 3 26 | 11 14 | 11 9 | 18 24 | | n.a. |
| T 4 | 22 13 | 13 45 | 4 5 | 20 57 | 0 35 | 22 41 | 1 46 | 22 7 | 0 33 | 4 4 | 1 16 | 21 10 | 1 12 | 23 10 | 0 32 | 22 56 | 0 20 | 19 3 | 3 26 | 11 16 | 11 10 | 18 27 | | n.a. |
| W 5 | 22 22 | 19 33 | 4 42 | 21 23 | 0 41 | 22 25 | 1 41 | 22 15 | 0 34 | 4 8 | 1 16 | 21 10 | 1 12 | 23 11 | 0 32 | 22 56 | 0 20 | 19 3 | 3 26 | 11 19 | 11 11 | 18 29 | | n.a. |
| T 6 | 22 30 | 24 11 | 4 59 | 21 48 | 0 47 | 22 9 | 1 36 | 22 24 | 0 34 | 4 12 | 1 16 | 21 9 | 1 12 | 23 11 | 0 32 | 22 56 | 0 20 | 19 3 | 3 26 | 11 23 | 11 12 | 18 32 | | n.a. |
| F 7 | 22 38 | 27 10 | 4 56 | 22 12 | 0 53 | 21 52 | 1 31 | 22 32 | 0 35 | 4 15 | 1 16 | 21 9 | 1 12 | 23 11 | 0 32 | 22 57 | 0 20 | 19 3 | 3 26 | 11 27 | 11 13 | 18 35 | | n.a. |
| S 8 | 22 46 | 28 10 | 4 32 | 22 34 | 0 59 | 21 34 | 1 25 | 22 40 | 0 35 | 4 19 | 1 16 | 21 8 | 1 11 | 23 11 | 0 32 | 22 57 | 0 20 | 19 2 | 3 26 | 11 31 | 11 14 | 18 37 | | n.a. |
| S 9 | 22 53 | 27 9 | 3 51 | 22 56 | 1 5 | 21 16 | 1 20 | 22 47 | 0 36 | 4 22 | 1 16 | 21 8 | 1 11 | 23 12 | 0 32 | 22 57 | 0 20 | 19 2 | 3 26 | 11 35 | 11 15 | 18 40 | | n.a. |
| M10 | 22 59 | 24 22 | 2 56 | 23 16 | 1 10 | 20 58 | 1 14 | 22 55 | 0 37 | 4 26 | 1 17 | 21 7 | 1 11 | 23 12 | 0 32 | 22 57 | 0 20 | 19 2 | 3 26 | 11 37 | 11 17 | 18 42 | | n.a. |
| T 11 | 23 6 | 20 16 | 1 53 | 23 36 | 1 15 | 20 40 | 1 8 | 23 2 | 0 37 | 4 29 | 1 17 | 21 6 | 1 11 | 23 12 | 0 32 | 22 57 | 0 20 | 19 2 | 3 26 | 11 39 | 11 18 | 18 45 | | n.a. |
| W12 | 23 11 | 15 17 | 0 45 | 23 54 | 1 20 | 20 21 | 1 1 | 23 8 | 0 38 | 4 32 | 1 17 | 21 6 | 1 11 | 23 13 | 0 32 | 22 57 | 0 20 | 19 2 | 3 26 | 11 40 | 11 19 | 18 47 | | n.a. |
| T 13 | 23 16 | 9 47 | 0n22 | 24 10 | 1 25 | 20 2 | 0 55 | 23 15 | 0 38 | 4 36 | 1 17 | 21 5 | 1 11 | 23 13 | 0 32 | 22 57 | 0 20 | 19 2 | 3 26 | 11 40 | 11 20 | 18 50 | | n.a. |
| F 14 | 23 21 | 4 4 | 1 27 | 24 26 | 1 30 | 19 43 | 0 48 | 23 21 | 0 39 | 4 39 | 1 17 | 21 5 | 1 11 | 23 13 | 0 32 | 22 58 | 0 20 | 19 2 | 3 26 | 11 40 | 11 21 | 18 53 | | n.a. |
| S 15 | 23 25 | 1n40 | 2 27 | 24 40 | 1 34 | 19 24 | 0 41 | 23 27 | 0 39 | 4 42 | 1 17 | 21 4 | 1 11 | 23 13 | 0 32 | 22 58 | 0 20 | 19 2 | 3 26 | 11 40 | 11 22 | 18 55 | | n.a. |
| S 16 | 23 29 | 7 16 | 3 19 | 24 53 | 1 38 | 19 4 | 0 34 | 23 33 | 0 40 | 4 45 | 1 18 | 21 3 | 1 10 | 23 14 | 0 32 | 22 58 | 0 20 | 19 2 | 3 25 | 11 40 | 11 23 | 18 58 | | n.a. |
| M17 | 23 32 | 12 32 | 4 2 | 25 5 | 1 42 | 18 44 | 0 26 | 23 39 | 0 41 | 4 48 | 1 18 | 21 3 | 1 10 | 23 14 | 0 32 | 22 58 | 0 20 | 19 2 | 3 25 | 11 42 | 11 24 | 19 0 | | n.a. |
| T 18 | 23 35 | 17 21 | 4 34 | 25 14 | 1 46 | 18 24 | 0 18 | 23 44 | 0 41 | 4 51 | 1 18 | 21 2 | 1 10 | 23 14 | 0 32 | 22 58 | 0 20 | 19 1 | 3 25 | 11 44 | 11 26 | 19 3 | | n.a. |
| W19 | 23 38 | 21 32 | 4 55 | 25 23 | 1 49 | 18 4 | 0 10 | 23 49 | 0 42 | 4 54 | 1 18 | 21 2 | 1 10 | 23 15 | 0 32 | 22 58 | 0 20 | 19 1 | 3 25 | 11 48 | 11 27 | 19 5 | | n.a. |
| T 20 | 23 39 | 24 51 | 5 3 | 25 30 | 1 52 | 17 44 | 0 2 | 23 54 | 0 42 | 4 57 | 1 18 | 21 1 | 1 10 | 23 15 | 0 32 | 22 58 | 0 20 | 19 1 | 3 25 | 11 51 | 11 28 | 19 8 | | n.a. |
| F 21 | 23 41 | 27 7 | 4 57 | 25 35 | 1 55 | 17 23 | 0n 6 | 23 58 | 0 43 | 5 0 | 1 19 | 21 1 | 1 10 | 23 15 | 0 32 | 22 58 | 0 20 | 19 1 | 3 25 | 11 56 | 11 29 | 19 10 | | n.a. |
| S 22 | 23 42 | 28 6 | 4 38 | 25 39 | 1 57 | 17 3 | 0 15 | 24 3 | 0 43 | 5 3 | 1 19 | 21 0 | 1 10 | 23 16 | 0 32 | 22 59 | 0 20 | 19 1 | 3 25 | 12 0 | 11 30 | 19 13 | | n.a. |
| S 23 | 23 42 | 27 42 | 4 5 | 25 41 | 1 59 | 16 42 | 0 24 | 24 7 | 0 44 | 5 6 | 1 19 | 21 0 | 1 9 | 23 16 | 0 32 | 22 59 | 0 20 | 19 1 | 3 25 | 12 4 | 11 31 | 19 15 | | n.a. |
| M24 | 23 42 | 25 52 | 3 20 | 25 41 | 2 0 | 16 22 | 0 33 | 24 10 | 0 44 | 5 8 | 1 19 | 20 59 | 1 9 | 23 16 | 0 32 | 22 59 | 0 20 | 19 1 | 3 25 | 12 7 | 11 32 | 19 18 | | n.a. |
| T 25 | 23 42 | 22 42 | 2 25 | 25 40 | 2 2 | 16 1 | 0 43 | 24 14 | 0 45 | 5 11 | 1 19 | 20 59 | 1 9 | 23 17 | 0 32 | 22 59 | 0 20 | 19 1 | 3 25 | 12 9 | 11 34 | 19 20 | | n.a. |
| W26 | 23 41 | 18 22 | 1 21 | 25 37 | 2 2 | 15 41 | 0 52 | 24 17 | 0 45 | 5 14 | 1 19 | 20 58 | 1 9 | 23 17 | 0 32 | 22 59 | 0 20 | 19 1 | 3 25 | 12 11 | 11 35 | 19 23 | | n.a. |
| T 27 | 23 39 | 13 6 | 0 12 | 25 32 | 2 3 | 15 21 | 1 2 | 24 20 | 0 46 | 5 16 | 1 20 | 20 58 | 1 9 | 23 17 | 0 32 | 22 59 | 0 20 | 19 1 | 3 25 | 12 11 | 11 36 | 19 25 | | n.a. |
| F 28 | 23 37 | 7 10 | 1s 0 | 25 25 | 2 3 | 15 0 | 1 12 | 24 22 | 0 46 | 5 19 | 1 20 | 20 57 | 1 9 | 23 17 | 0 32 | 22 59 | 0 20 | 19 1 | 3 24 | 12 11 | 11 37 | 19 28 | | n.a. |
| S 29 | 23 35 | 0 48 | 2 9 | 25 16 | 2 2 | 14 40 | 1 23 | 24 24 | 0 47 | 5 21 | 1 20 | 20 57 | 1 8 | 23 18 | 0 32 | 23 0 | 0 20 | 19 1 | 3 24 | 12 10 | 11 38 | 19 30 | | n.a. |
| S 30 | 23 32 | 5s42 | 3 12 | 25 5 | 2 1 | 14 20 | 1 33 | 24 26 | 0 47 | 5 23 | 1 20 | 20 56 | 1 8 | 23 18 | 0 32 | 23 0 | 0 20 | 19 1 | 3 24 | 12 10 | 11 39 | 19 33 | | n.a. |
| M31 | 23s29 | 12s 2 | 4s 5 | 24s53 | 1s59 | 14s 0 | 1n44 | 24s28 | 0s48 | 5s26 | 1n20 | 20n56 | 1s 8 | 23n18 | 0n32 | 23n 0 | 0s20 | 19n 1 | 3s24 | 12s11 | 11s40 | 19n35 | | n.a. |

Julian Day Number = 1699842.5, Delta T = 03h06m08s
Ecliptic obliquity = 23°42'16, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°52'46, Lahiri = - 4°45'46 Julian Calendar 1 Dec. 60 BCE == Greg. Calendar 29 Nov. 060 BCE

The year -59 astronomical counting style corresponds to year 060 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 59 BCE
# geocentric

## JANUARY 59 BCE (-58) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 30 45 | 8♑42'33 | 5♏18 | 16♑16 | 18♒19 | 27♐47 | 16♎53 | 8°R58 | 15°R39 | 9°R57 | 11°R16 | 28°R18 | 29♒44 | 10♉12 | n.a. | T 1 |
| W 2 | 6 34 42 | 9°43'30 | 19°49 | 18° 2 | 18°47 | 28°34 | 16°59 | 8♊54 | 15♋37 | 9♋56 | 11♊15 | 28♒13 | 29°41 | 10°18 | n.a. | W 2 |
| T 3 | 6 38 38 | 10°44'27 | 4♐29 | 19°48 | 19°13 | 29°21 | 17° 5 | 8°51 | 15°34 | 9°54 | 11°14 | 28° 7 | 29°38 | 10°25 | n.a. | T 3 |
| F 4 | 6 42 35 | 11°45'23 | 19°10 | 21°34 | 19°37 | 0♑ 8 | 17°11 | 8°47 | 15°31 | 9°52 | 11°12 | 27°59 | 29°34 | 10°32 | n.a. | F 4 |
| S 5 | 6 46 32 | 12°46'17 | 3♑44 | 23°20 | 20° 0 | 0°55 | 17°16 | 8°43 | 15°29 | 9°51 | 11°11 | 27°51 | 29°31 | 10°38 | n.a. | S 5 |
| S 6 | 6 50 28 | 13°47'11 | 18° 5 | 25° 6 | 20°20 | 1°42 | 17°22 | 8°40 | 15°26 | 9°49 | 11°10 | 27°45 | 29°28 | 10°45 | n.a. | S 6 |
| M 7 | 6 54 25 | 14°48'03 | 2♒ 7 | 26°51 | 20°39 | 2°28 | 17°27 | 8°36 | 15°23 | 9°47 | 11° 9 | 27°40 | 29°25 | 10°52 | n.a. | M 7 |
| T 8 | 6 58 21 | 15°48'53 | 15°46 | 28°35 | 20°55 | 3°15 | 17°32 | 8°33 | 15°21 | 9°45 | 11° 8 | 27°37 | 29°22 | 10°59 | n.a. | T 8 |
| W 9 | 7 2 18 | 16°49'42 | 29° 0 | 0♒19 | 21° 9 | 4° 2 | 17°37 | 8°29 | 15°18 | 9°44 | 11° 7 | 27°D37 | 29°19 | 11° 5 | n.a. | W 9 |
| T 10 | 7 6 14 | 17°50'29 | 11♓51 | 2° 1 | 21°22 | 4°49 | 17°42 | 8°26 | 15°16 | 9°42 | 11° 6 | 27°38 | 29°15 | 11°12 | n.a. | T 10 |
| F 11 | 7 10 11 | 18°51'15 | 24°20 | 3°42 | 21°32 | 5°36 | 17°47 | 8°23 | 15°13 | 9°40 | 11° 5 | 27°39 | 29°12 | 11°19 | n.a. | F 11 |
| S 12 | 7 14 7 | 19°51'58 | 6♈33 | 5°20 | 21°39 | 6°23 | 17°51 | 8°20 | 15°10 | 9°39 | 11° 5 | 27°41 | 29° 9 | 11°25 | n.a. | S 12 |
| S 13 | 7 18 4 | 20°52'40 | 18°34 | 6°56 | 21°44 | 7°10 | 17°55 | 8°17 | 15° 8 | 9°37 | 11° 4 | 27°R42 | 29° 6 | 11°32 | n.a. | S 13 |
| M14 | 7 22 1 | 21°53'21 | 0♉27 | 8°28 | 21°47 | 7°57 | 17°59 | 8°14 | 15° 5 | 9°35 | 11° 3 | 27°41 | 29° 3 | 11°39 | n.a. | M14 |
| T 15 | 7 25 57 | 22°53'59 | 12°19 | 9°57 | 21°R48 | 8°44 | 18° 3 | 8°11 | 15° 3 | 9°34 | 11° 2 | 27°39 | 29° 0 | 11°46 | n.a. | T 15 |
| W16 | 7 29 54 | 23°54'36 | 24°13 | 11°22 | 21°45 | 9°31 | 18° 7 | 8° 8 | 15° 0 | 9°32 | 11° 1 | 27°36 | 28°56 | 11°52 | n.a. | W16 |
| T 17 | 7 33 50 | 24°55'11 | 6♊13 | 12°41 | 21°41 | 10°18 | 18°11 | 8° 6 | 14°57 | 9°31 | 11° 0 | 27°31 | 28°53 | 11°59 | n.a. | T 17 |
| F 18 | 7 37 47 | 25°55'44 | 18°24 | 13°55 | 21°34 | 11° 5 | 18°14 | 8° 3 | 14°55 | 9°29 | 10°59 | 27°25 | 28°50 | 12° 6 | n.a. | F 18 |
| S 19 | 7 41 43 | 26°56'15 | 0♋47 | 15° 2 | 21°24 | 11°52 | 18°18 | 8° 1 | 14°52 | 9°27 | 10°58 | 27°20 | 28°47 | 12°12 | n.a. | S 19 |
| S 20 | 7 45 40 | 27°56'45 | 13°24 | 16° 3 | 21°11 | 12°39 | 18°21 | 7°58 | 14°50 | 9°26 | 10°58 | 27°15 | 28°44 | 12°19 | n.a. | S 20 |
| M21 | 7 49 36 | 28°57'12 | 26°15 | 16°55 | 20°57 | 13°26 | 18°24 | 7°56 | 14°47 | 9°24 | 10°57 | 27°11 | 28°40 | 12°26 | n.a. | M21 |
| T 22 | 7 53 33 | 29°57'38 | 9♌21 | 17°39 | 20°39 | 14°13 | 18°26 | 7°54 | 14°45 | 9°23 | 10°56 | 27° 8 | 28°37 | 12°33 | n.a. | T 22 |
| W23 | 7 57 30 | 0♒58'02 | 22°41 | 18°14 | 20°20 | 15° 0 | 18°29 | 7°52 | 14°42 | 9°21 | 10°55 | 27°D 7 | 28°34 | 12°39 | n.a. | W23 |
| T 24 | 8 1 26 | 1°58'25 | 6♍12 | 18°40 | 19°57 | 15°47 | 18°31 | 7°50 | 14°40 | 9°20 | 10°55 | 27° 7 | 28°31 | 12°46 | n.a. | T 24 |
| F 25 | 8 5 23 | 2°58'46 | 19°55 | 18°56 | 19°33 | 16°34 | 18°33 | 7°48 | 14°37 | 9°18 | 10°54 | 27° 8 | 28°28 | 12°53 | n.a. | F 25 |
| S 26 | 8 9 19 | 3°59'05 | 3♎47 | 19°R 2 | 19° 7 | 17°22 | 18°35 | 7°47 | 14°35 | 9°16 | 10°53 | 27°10 | 28°25 | 12°59 | n.a. | S 26 |
| S 27 | 8 13 16 | 4°59'22 | 17°47 | 18°58 | 18°38 | 18° 9 | 18°37 | 7°45 | 14°32 | 9°15 | 10°53 | 27°11 | 28°21 | 13° 6 | n.a. | S 27 |
| M28 | 8 17 12 | 5°59'39 | 1♏53 | 18°44 | 18° 8 | 18°56 | 18°39 | 7°44 | 14°30 | 9°14 | 10°52 | 27°R12 | 28°18 | 13°13 | n.a. | M28 |
| T 29 | 8 21 9 | 6°59'53 | 16° 5 | 18°21 | 17°36 | 19°43 | 18°40 | 7°42 | 14°28 | 9°12 | 10°51 | 27°12 | 28°15 | 13°20 | n.a. | T 29 |
| W30 | 8 25 5 | 8° 0'06 | 0♐19 | 17°50 | 17° 2 | 20°30 | 18°41 | 7°41 | 14°25 | 9°11 | 10°51 | 27°10 | 28°12 | 13°26 | n.a. | W30 |
| T 31 | 8 29 2 | 9♒ 0'18 | 14♐34 | 17♒10 | 16♒27 | 21♑17 | 18♎43 | 7♊40 | 14♋23 | 9♋ 9 | 10♊50 | 27♒ 9 | 28♒ 9 | 13♉33 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23 s25 | 17 s52 | 4 s43 | 24 s38 | 1 s57 | 13 s40 | 1n55 | 24 s30 | 0 s48 | 5 s28 | 1n21 | 20n55 | 1 s 8 | 23n19 | 0n33 | 23n 0 | 0 s20 | 19n 0 | 3 s24 | 12 s12 | 11 s41 | 19n38 | | n.a. |
| W 2 | 23 21 | 22 45 | 5 4 | 24 22 | 1 54 | 13 21 | 2 7 | 24 31 | 0 49 | 5 30 | 1 21 | 20 55 | 1 8 | 23 19 | 0 33 | 23 0 | 0 20 | 19 0 | 3 24 | 12 13 | 11 43 | 19 40 | | n.a. |
| T 3 | 23 16 | 26 16 | 5 5 | 24 3 | 1 51 | 13 2 | 2 19 | 24 32 | 0 49 | 5 32 | 1 21 | 20 54 | 1 8 | 23 19 | 0 33 | 23 0 | 0 20 | 19 0 | 3 24 | 12 16 | 11 44 | 19 43 | | n.a. |
| F 4 | 23 11 | 28 1 | 4 47 | 23 43 | 1 47 | 12 43 | 2 30 | 24 32 | 0 50 | 5 34 | 1 21 | 20 54 | 1 7 | 23 20 | 0 33 | 23 0 | 0 20 | 19 0 | 3 24 | 12 18 | 11 45 | 19 45 | | n.a. |
| S 5 | 23 5 | 27 48 | 4 10 | 23 21 | 1 42 | 12 24 | 2 43 | 24 33 | 0 50 | 5 36 | 1 21 | 20 54 | 1 7 | 23 20 | 0 33 | 23 1 | 0 20 | 19 0 | 3 24 | 12 21 | 11 46 | 19 48 | | n.a. |
| S 6 | 22 59 | 25 43 | 3 17 | 22 56 | 1 37 | 12 6 | 2 55 | 24 33 | 0 51 | 5 38 | 1 22 | 20 53 | 1 7 | 23 20 | 0 33 | 23 1 | 0 20 | 19 0 | 3 24 | 12 23 | 11 47 | 19 50 | | n.a. |
| M 7 | 22 52 | 22 4 | 2 14 | 22 30 | 1 31 | 11 49 | 3 7 | 24 32 | 0 51 | 5 40 | 1 22 | 20 53 | 1 7 | 23 21 | 0 33 | 23 1 | 0 20 | 19 0 | 3 23 | 12 25 | 11 48 | 19 52 | | n.a. |
| T 8 | 22 45 | 17 18 | 1 4 | 22 3 | 1 24 | 11 31 | 3 20 | 24 32 | 0 52 | 5 42 | 1 22 | 20 52 | 1 7 | 23 21 | 0 33 | 23 1 | 0 20 | 19 0 | 3 23 | 12 26 | 11 49 | 19 55 | | n.a. |
| W 9 | 22 38 | 11 50 | 0n 8 | 21 33 | 1 17 | 11 14 | 3 33 | 24 31 | 0 52 | 5 43 | 1 22 | 20 52 | 1 7 | 23 21 | 0 33 | 23 1 | 0 20 | 19 0 | 3 23 | 12 26 | 11 50 | 19 57 | | n.a. |
| T 10 | 22 30 | 6 1 | 1 17 | 21 2 | 1 8 | 10 58 | 3 46 | 24 30 | 0 53 | 5 45 | 1 23 | 20 52 | 1 6 | 23 22 | 0 33 | 23 1 | 0 20 | 19 0 | 3 23 | 12 26 | 11 52 | 20 0 | | n.a. |
| F 11 | 22 22 | 0 8 | 2 20 | 20 30 | 0 59 | 10 42 | 3 59 | 24 28 | 0 53 | 5 47 | 1 23 | 20 51 | 1 6 | 23 22 | 0 33 | 23 1 | 0 19 | 19 0 | 3 23 | 12 25 | 11 53 | 20 2 | | n.a. |
| S 12 | 22 13 | 5n37 | 3 16 | 19 56 | 0 49 | 10 27 | 4 13 | 24 27 | 0 54 | 5 48 | 1 23 | 20 51 | 1 6 | 23 22 | 0 33 | 23 2 | 0 19 | 19 0 | 3 23 | 12 25 | 11 54 | 20 5 | | n.a. |
| S 13 | 22 4 | 11 4 | 4 2 | 19 22 | 0 38 | 10 13 | 4 26 | 24 25 | 0 54 | 5 50 | 1 23 | 20 51 | 1 6 | 23 23 | 0 33 | 23 2 | 0 19 | 19 0 | 3 23 | 12 24 | 11 55 | 20 7 | | n.a. |
| M14 | 21 54 | 16 4 | 4 37 | 18 47 | 0 27 | 9 59 | 4 40 | 24 22 | 0 55 | 5 51 | 1 23 | 20 51 | 1 6 | 23 23 | 0 33 | 23 2 | 0 19 | 19 0 | 3 23 | 12 25 | 11 56 | 20 9 | | n.a. |
| T 15 | 21 44 | 20 27 | 5 0 | 18 11 | 0 15 | 9 46 | 4 53 | 24 20 | 0 55 | 5 52 | 1 24 | 20 50 | 1 5 | 23 23 | 0 33 | 23 2 | 0 19 | 19 0 | 3 23 | 12 25 | 11 57 | 20 12 | | n.a. |
| W16 | 21 34 | 24 3 | 5 11 | 17 35 | 0 2 | 9 34 | 5 7 | 24 17 | 0 56 | 5 54 | 1 24 | 20 50 | 1 5 | 23 23 | 0 33 | 23 2 | 0 19 | 19 0 | 3 23 | 12 26 | 11 58 | 20 14 | | n.a. |
| T 17 | 21 23 | 26 38 | 5 8 | 16 59 | 0n12 | 9 23 | 5 21 | 24 14 | 0 56 | 5 55 | 1 24 | 20 50 | 1 5 | 23 24 | 0 33 | 23 2 | 0 19 | 19 0 | 3 22 | 12 28 | 11 59 | 20 16 | | n.a. |
| F 18 | 21 12 | 28 1 | 4 51 | 16 24 | 0 27 | 9 12 | 5 34 | 24 10 | 0 56 | 5 56 | 1 24 | 20 50 | 1 5 | 23 24 | 0 33 | 23 2 | 0 19 | 19 0 | 3 22 | 12 30 | 12 0 | 20 19 | | n.a. |
| S 19 | 21 0 | 28 2 | 4 20 | 15 50 | 0 42 | 9 2 | 5 48 | 24 7 | 0 57 | 5 57 | 1 24 | 20 49 | 1 5 | 23 24 | 0 33 | 23 2 | 0 19 | 19 0 | 3 22 | 12 32 | 12 2 | 20 21 | | n.a. |
| S 20 | 20 48 | 26 37 | 3 37 | 15 18 | 0 57 | 8 54 | 6 1 | 24 3 | 0 57 | 5 58 | 1 25 | 20 49 | 1 4 | 23 25 | 0 33 | 23 3 | 0 19 | 19 0 | 3 22 | 12 34 | 12 3 | 20 24 | | n.a. |
| M21 | 20 36 | 23 46 | 2 41 | 14 47 | 1 13 | 8 46 | 6 14 | 23 58 | 0 58 | 5 59 | 1 25 | 20 49 | 1 4 | 23 25 | 0 33 | 23 3 | 0 19 | 19 0 | 3 22 | 12 35 | 12 4 | 20 26 | | n.a. |
| T 22 | 20 23 | 19 39 | 1 36 | 14 18 | 1 29 | 8 39 | 6 27 | 23 54 | 0 58 | 6 0 | 1 25 | 20 49 | 1 4 | 23 25 | 0 33 | 23 3 | 0 19 | 19 0 | 3 22 | 12 36 | 12 5 | 20 28 | | n.a. |
| W23 | 20 10 | 14 29 | 0 24 | 13 52 | 1 45 | 8 33 | 6 40 | 23 49 | 0 58 | 6 0 | 1 25 | 20 49 | 1 4 | 23 25 | 0 33 | 23 3 | 0 19 | 19 0 | 3 22 | 12 36 | 12 6 | 20 31 | | n.a. |
| T 24 | 19 56 | 8 34 | 0 s50 | 13 28 | 2 1 | 8 29 | 6 52 | 23 44 | 0 59 | 6 1 | 1 26 | 20 49 | 1 4 | 23 26 | 0 33 | 23 3 | 0 19 | 19 0 | 3 22 | 12 36 | 12 7 | 20 33 | | n.a. |
| F 25 | 19 43 | 2 10 | 2 2 | 13 9 | 2 17 | 8 25 | 7 3 | 23 39 | 0 59 | 6 2 | 1 26 | 20 49 | 1 3 | 23 26 | 0 33 | 23 3 | 0 19 | 19 0 | 3 21 | 12 36 | 12 8 | 20 35 | | n.a. |
| S 26 | 19 28 | 4 s23 | 3 8 | 12 52 | 2 32 | 8 22 | 7 15 | 23 33 | 1 0 | 6 2 | 1 26 | 20 49 | 1 3 | 23 26 | 0 33 | 23 3 | 0 19 | 19 0 | 3 21 | 12 36 | 12 9 | 20 38 | | n.a. |
| S 27 | 19 14 | 10 48 | 4 4 | 12 40 | 2 47 | 8 21 | 7 25 | 23 27 | 1 0 | 6 3 | 1 26 | 20 48 | 1 3 | 23 26 | 0 33 | 23 3 | 0 19 | 19 0 | 3 21 | 12 35 | 12 11 | 20 40 | | n.a. |
| M28 | 18 59 | 16 42 | 4 45 | 12 31 | 3 1 | 8 20 | 7 36 | 23 21 | 1 0 | 6 3 | 1 27 | 20 48 | 1 3 | 23 27 | 0 33 | 23 4 | 0 19 | 19 0 | 3 21 | 12 35 | 12 12 | 20 42 | | n.a. |
| T 29 | 18 44 | 21 45 | 5 9 | 12 26 | 3 13 | 8 21 | 7 45 | 23 14 | 1 1 | 6 4 | 1 27 | 20 48 | 1 3 | 23 27 | 0 33 | 23 4 | 0 19 | 19 0 | 3 21 | 12 35 | 12 13 | 20 45 | | n.a. |
| W30 | 18 28 | 25 34 | 5 14 | 12 26 | 3 24 | 8 22 | 7 54 | 23 8 | 1 1 | 6 4 | 1 27 | 20 48 | 1 2 | 23 27 | 0 33 | 23 4 | 0 19 | 19 0 | 3 21 | 12 35 | 12 14 | 20 47 | | n.a. |
| T 31 | 18 s12 | 27 s46 | 5 s 1 | 12 s29 | 3n33 | 8 s25 | 8n 2 | 23 s 1 | 1 s 1 | 6 s 4 | 1n27 | 20n48 | 1 s 2 | 23n28 | 0n33 | 23n 4 | 0 s19 | 19n 0 | 3 s21 | 12 s36 | 12 s15 | 20n49 | | n.a. |

Julian Day Number = 1699873.5, Delta T = 03h06m07s
Ecliptic obliquity = 23°42'15, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°52'42, Lahiri = - 4°45'41 Julian Calendar 1 Jan. 59 BCE == Greg. Calendar 30 Dec. 060 BCE

The year -58 astronomical counting style corresponds to year 059 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 59 BCE
# geocentric

## FEBRUARY 59 BCE (-58) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 8 32 59 | 10♒ 0'28 | 28♐46 | 16°R24 | 15°R51 | 22♑ 4 | 18♎43 | 7°R39 | 14°R21 | 9°R 8 | 10°R50 | 27°R 6 | 28♒ 6 | 13♉40 | n.a. | F 1 |
| S 2 | 8 36 55 | 11° 0'36 | 12♑50 | 15♒31 | 15♒15 | 22°51 | 18°44 | 7♊38 | 14♋18 | 9♋ 6 | 10♊49 | 27♒ 4 | 28° 2 | 13°47 | n.a. | S 2 |
| S 3 | 8 40 52 | 12° 0'42 | 26°44 | 14°35 | 14°37 | 23°38 | 18°45 | 7°37 | 14°16 | 9° 5 | 10°48 | 27° 2 | 27°59 | 13°53 | n.a. | S 3 |
| M 4 | 8 44 48 | 13° 0'47 | 10♒23 | 13°35 | 14° 0 | 24°26 | 18°45 | 7°36 | 14°14 | 9° 4 | 10°48 | 27° 1 | 27°56 | 14° 0 | n.a. | M 4 |
| T 5 | 8 48 45 | 14° 0'49 | 23°46 | 12°34 | 13°22 | 25°13 | 18°R45 | 7°36 | 14°12 | 9° 2 | 10°47 | 27°D 0 | 27°53 | 14° 7 | n.a. | T 5 |
| W 6 | 8 52 41 | 15° 0'49 | 6♓50 | 11°33 | 12°44 | 26° 0 | 18°45 | 7°35 | 14°10 | 9° 1 | 10°47 | 27° 0 | 27°50 | 14°13 | n.a. | W 6 |
| T 7 | 8 56 38 | 16° 0'47 | 19°36 | 10°33 | 12° 7 | 26°47 | 18°45 | 7°35 | 14° 8 | 9° 0 | 10°47 | 27° 1 | 27°46 | 14°20 | n.a. | T 7 |
| F 8 | 9 0 34 | 17° 0'43 | 2♈ 4 | 9°35 | 11°31 | 27°34 | 18°44 | 7°35 | 14° 6 | 8°58 | 10°46 | 27° 2 | 27°43 | 14°27 | n.a. | F 8 |
| S 9 | 9 4 31 | 18° 0'37 | 14°18 | 8°41 | 10°55 | 28°21 | 18°44 | 7°35 | 14° 3 | 8°57 | 10°46 | 27° 3 | 27°40 | 14°34 | n.a. | S 9 |
| S 10 | 9 8 28 | 19° 0'28 | 26°21 | 7°52 | 10°20 | 29° 8 | 18°43 | 7°D35 | 14° 1 | 8°56 | 10°45 | 27° 4 | 27°37 | 14°40 | n.a. | S 10 |
| M11 | 9 12 24 | 20° 0'17 | 8♉16 | 7° 8 | 9°47 | 29°55 | 18°42 | 7°35 | 13°59 | 8°55 | 10°45 | 27° 4 | 27°34 | 14°47 | n.a. | M11 |
| T 12 | 9 16 21 | 21° 0'04 | 20° 9 | 6°30 | 9°16 | 0♒42 | 18°41 | 7°35 | 13°58 | 8°54 | 10°45 | 27°R 4 | 27°31 | 14°54 | n.a. | T 12 |
| W13 | 9 20 17 | 21°59'49 | 2♊ 3 | 5°58 | 8°46 | 1°29 | 18°39 | 7°35 | 13°56 | 8°52 | 10°44 | 27° 4 | 27°27 | 15° 0 | n.a. | W13 |
| T 14 | 9 24 14 | 22°59'31 | 14° 4 | 5°32 | 8°17 | 2°16 | 18°38 | 7°36 | 13°54 | 8°51 | 10°44 | 27° 4 | 27°24 | 15° 7 | n.a. | T 14 |
| F 15 | 9 28 10 | 23°59'11 | 26°16 | 5°12 | 7°51 | 3° 3 | 18°36 | 7°36 | 13°52 | 8°50 | 10°44 | 27° 4 | 27°21 | 15°14 | n.a. | F 15 |
| S 16 | 9 32 7 | 24°58'48 | 8♋43 | 4°59 | 7°27 | 3°50 | 18°34 | 7°37 | 13°50 | 8°49 | 10°44 | 27° 3 | 27°18 | 15°21 | n.a. | S 16 |
| S 17 | 9 36 3 | 25°58'24 | 21°27 | 4°52 | 7° 6 | 4°37 | 18°32 | 7°38 | 13°48 | 8°48 | 10°44 | 27° 3 | 27°15 | 15°27 | n.a. | S 17 |
| M18 | 9 40 0 | 26°57'57 | 4♌30 | 4°D52 | 6°46 | 5°24 | 18°29 | 7°38 | 13°47 | 8°47 | 10°43 | 27°D 3 | 27°12 | 15°34 | n.a. | M18 |
| T 19 | 9 43 57 | 27°57'27 | 17°54 | 4°57 | 6°29 | 6°11 | 18°27 | 7°39 | 13°45 | 8°46 | 10°43 | 27° 3 | 27° 8 | 15°41 | n.a. | T 19 |
| W20 | 9 47 53 | 28°56'56 | 1♍36 | 5° 7 | 6°15 | 6°58 | 18°24 | 7°41 | 13°43 | 8°45 | 10°43 | 27°R 3 | 27° 5 | 15°47 | n.a. | W20 |
| T 21 | 9 51 50 | 29°56'22 | 15°35 | 5°24 | 6° 3 | 7°45 | 18°21 | 7°42 | 13°42 | 8°44 | 10°43 | 27° 3 | 27° 2 | 15°54 | n.a. | T 21 |
| F 22 | 9 55 46 | 0♓55'46 | 29°46 | 5°45 | 5°53 | 8°32 | 18°18 | 7°43 | 13°40 | 8°43 | 10°43 | 27° 3 | 26°59 | 16° 1 | n.a. | F 22 |
| S 23 | 9 59 43 | 1°55'08 | 14♎ 5 | 6°11 | 5°46 | 9°19 | 18°15 | 7°44 | 13°39 | 8°42 | 10°43 | 27° 2 | 26°56 | 16° 8 | n.a. | S 23 |
| S 24 | 10 3 39 | 2°54'29 | 28°28 | 6°42 | 5°41 | 10° 6 | 18°12 | 7°46 | 13°37 | 8°42 | 10°43 | 27° 2 | 26°52 | 16°14 | n.a. | S 24 |
| M25 | 10 7 36 | 3°53'47 | 12♏51 | 7°17 | 5°D39 | 10°53 | 18° 8 | 7°48 | 13°36 | 8°41 | 10°D43 | 27° 1 | 26°49 | 16°21 | n.a. | M25 |
| T 26 | 10 11 32 | 4°53'04 | 27° 9 | 7°56 | 5°39 | 11°40 | 18° 5 | 7°49 | 13°35 | 8°40 | 10°43 | 27° 1 | 26°46 | 16°28 | n.a. | T 26 |
| W27 | 10 15 29 | 5°52'19 | 11♐19 | 8°38 | 5°42 | 12°27 | 18° 1 | 7°51 | 13°33 | 8°39 | 10°43 | 27°D 1 | 26°43 | 16°35 | n.a. | W27 |
| T 28 | 10 19 25 | 6♓51'32 | 25♐20 | 9♒25 | 5♒47 | 13♒14 | 17♎57 | 7♊53 | 13♋32 | 8♋38 | 10♊43 | 27♒ 1 | 26♒40 | 16♉41 | n.a. | T 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 17s56 | 28s10 | 4s28 | 12s36 | 3n40 | 8s29 | 8n 9 | 22s53 | 1s 2 | 6s 4 | 1n27 | 20n48 | 1s 2 | 23n28 | 0n33 | 23n 4 | 0s19 | 19n 0 | 3s21 | 12s37 | 12s16 | 20n51 | | n.a. |
| S 2 | 17 40 | 26 44 | 3 40 | 12 46 | 3 46 | 8 33 | 8 15 | 22 46 | 1 2 | 6 4 | 1 28 | 20 49 | 1 2 | 23 28 | 0 33 | 23 4 | 0 19 | 19 0 | 3 20 | 12 38 | 12 17 | 20 54 | | n.a. |
| S 3 | 17 23 | 23 39 | 2 39 | 12 59 | 3 49 | 8 39 | 8 20 | 22 38 | 1 2 | 6 4 | 1 28 | 20 49 | 1 2 | 23 28 | 0 33 | 23 4 | 0 19 | 19 0 | 3 20 | 12 38 | 12 18 | 20 56 | | n.a. |
| M 4 | 17 6 | 19 17 | 1 31 | 13 15 | 3 50 | 8 45 | 8 25 | 22 30 | 1 3 | 6 4 | 1 28 | 20 49 | 1 1 | 23 28 | 0 33 | 23 4 | 0 19 | 19 1 | 3 20 | 12 39 | 12 19 | 20 58 | | n.a. |
| T 5 | 16 48 | 14 2 | 0 18 | 13 33 | 3 49 | 8 52 | 8 28 | 22 22 | 1 3 | 6 4 | 1 28 | 20 49 | 1 1 | 23 29 | 0 33 | 23 5 | 0 19 | 19 1 | 3 20 | 12 39 | 12 21 | 21 1 | | n.a. |
| W 6 | 16 31 | 8 16 | 0n54 | 13 53 | 3 46 | 9 0 | 8 31 | 22 13 | 1 3 | 6 4 | 1 29 | 20 49 | 1 1 | 23 29 | 0 33 | 23 5 | 0 19 | 19 1 | 3 20 | 12 39 | 12 22 | 21 3 | | n.a. |
| T 7 | 16 13 | 2 18 | 2 2 | 14 14 | 3 41 | 9 9 | 8 32 | 22 4 | 1 4 | 6 3 | 1 29 | 20 49 | 1 1 | 23 29 | 0 33 | 23 5 | 0 19 | 19 1 | 3 20 | 12 39 | 12 23 | 21 5 | | n.a. |
| F 8 | 15 55 | 3n37 | 3 2 | 14 36 | 3 34 | 9 18 | 8 33 | 21 55 | 1 4 | 6 3 | 1 29 | 20 49 | 1 1 | 23 29 | 0 33 | 23 5 | 0 19 | 19 1 | 3 20 | 12 38 | 12 24 | 21 7 | | n.a. |
| S 9 | 15 36 | 9 16 | 3 53 | 14 58 | 3 26 | 9 28 | 8 33 | 21 46 | 1 4 | 6 3 | 1 29 | 20 49 | 1 0 | 23 30 | 0 33 | 23 5 | 0 19 | 19 1 | 3 20 | 12 38 | 12 25 | 21 10 | | n.a. |
| S 10 | 15 17 | 14 30 | 4 33 | 15 21 | 3 16 | 9 38 | 8 31 | 21 37 | 1 5 | 6 2 | 1 29 | 20 50 | 1 0 | 23 30 | 0 33 | 23 5 | 0 19 | 19 1 | 3 19 | 12 38 | 12 26 | 21 12 | | n.a. |
| M11 | 14 58 | 19 8 | 5 0 | 15 43 | 3 5 | 9 49 | 8 29 | 21 27 | 1 5 | 6 1 | 1 30 | 20 50 | 1 0 | 23 30 | 0 33 | 23 5 | 0 19 | 19 1 | 3 19 | 12 37 | 12 27 | 21 14 | | n.a. |
| T 12 | 14 39 | 23 1 | 5 15 | 16 4 | 2 53 | 10 0 | 8 26 | 21 17 | 1 5 | 6 1 | 1 30 | 20 50 | 1 0 | 23 30 | 0 33 | 23 5 | 0 19 | 19 1 | 3 19 | 12 37 | 12 28 | 21 16 | | n.a. |
| W13 | 14 20 | 25 57 | 5 16 | 16 24 | 2 40 | 10 11 | 8 22 | 21 7 | 1 5 | 6 0 | 1 30 | 20 50 | 1 0 | 23 30 | 0 33 | 23 5 | 0 19 | 19 1 | 3 19 | 12 37 | 12 29 | 21 19 | | n.a. |
| T 14 | 14 0 | 27 45 | 5 3 | 16 44 | 2 27 | 10 23 | 8 18 | 20 56 | 1 6 | 5 59 | 1 30 | 20 51 | 0 59 | 23 31 | 0 33 | 23 5 | 0 19 | 19 1 | 3 19 | 12 37 | 12 30 | 21 21 | | n.a. |
| F 15 | 13 40 | 28 16 | 4 37 | 17 2 | 2 13 | 10 34 | 8 12 | 20 46 | 1 6 | 5 58 | 1 30 | 20 51 | 0 59 | 23 31 | 0 32 | 23 6 | 0 19 | 19 1 | 3 19 | 12 38 | 12 32 | 21 23 | | n.a. |
| S 16 | 13 20 | 27 21 | 3 57 | 17 19 | 1 59 | 10 46 | 8 6 | 20 35 | 1 6 | 5 58 | 1 31 | 20 51 | 0 59 | 23 31 | 0 32 | 23 6 | 0 19 | 19 1 | 3 19 | 12 38 | 12 33 | 21 25 | | n.a. |
| S 17 | 13 0 | 25 1 | 3 5 | 17 34 | 1 45 | 10 58 | 8 0 | 20 24 | 1 6 | 5 57 | 1 31 | 20 52 | 0 59 | 23 31 | 0 32 | 23 6 | 0 19 | 19 2 | 3 19 | 12 38 | 12 34 | 21 27 | | n.a. |
| M18 | 12 40 | 21 19 | 2 2 | 17 48 | 1 30 | 11 10 | 7 52 | 20 12 | 1 7 | 5 55 | 1 31 | 20 52 | 0 58 | 23 31 | 0 32 | 23 6 | 0 19 | 19 2 | 3 18 | 12 38 | 12 35 | 21 30 | | n.a. |
| T 19 | 12 19 | 16 26 | 0 51 | 18 0 | 1 16 | 11 22 | 7 44 | 20 1 | 1 7 | 5 54 | 1 31 | 20 52 | 0 58 | 23 31 | 0 32 | 23 6 | 0 19 | 19 2 | 3 18 | 12 38 | 12 36 | 21 32 | | n.a. |
| W20 | 11 58 | 10 38 | 0s25 | 18 11 | 1 2 | 11 33 | 7 36 | 19 49 | 1 7 | 5 53 | 1 31 | 20 53 | 0 58 | 23 32 | 0 32 | 23 6 | 0 19 | 19 2 | 3 18 | 12 38 | 12 37 | 21 34 | | n.a. |
| T 21 | 11 37 | 4 12 | 1 41 | 18 21 | 0 49 | 11 44 | 7 27 | 19 37 | 1 7 | 5 52 | 1 32 | 20 53 | 0 58 | 23 32 | 0 32 | 23 6 | 0 19 | 19 2 | 3 18 | 12 38 | 12 38 | 21 36 | | n.a. |
| F 22 | 11 16 | 2s31 | 2 52 | 18 28 | 0 35 | 11 56 | 7 18 | 19 25 | 1 8 | 5 51 | 1 32 | 20 53 | 0 58 | 23 32 | 0 32 | 23 6 | 0 19 | 19 2 | 3 18 | 12 38 | 12 39 | 21 38 | | n.a. |
| S 23 | 10 55 | 9 10 | 3 52 | 18 34 | 0 22 | 12 7 | 7 9 | 19 12 | 1 8 | 5 49 | 1 32 | 20 54 | 0 57 | 23 32 | 0 32 | 23 6 | 0 19 | 19 2 | 3 18 | 12 38 | 12 40 | 21 41 | | n.a. |
| S 24 | 10 33 | 15 22 | 4 38 | 18 39 | 0 10 | 12 17 | 6 59 | 19 0 | 1 8 | 5 48 | 1 32 | 20 54 | 0 57 | 23 32 | 0 32 | 23 6 | 0 19 | 19 2 | 3 18 | 12 38 | 12 41 | 21 43 | | n.a. |
| M25 | 10 11 | 20 44 | 5 7 | 18 42 | 0s 2 | 12 27 | 6 49 | 18 47 | 1 8 | 5 46 | 1 32 | 20 55 | 0 57 | 23 32 | 0 32 | 23 6 | 0 19 | 19 3 | 3 17 | 12 38 | 12 43 | 21 45 | | n.a. |
| T 26 | 9 49 | 24 52 | 5 17 | 18 43 | 0 14 | 12 37 | 6 39 | 18 34 | 1 8 | 5 45 | 1 33 | 20 55 | 0 57 | 23 32 | 0 32 | 23 6 | 0 19 | 19 3 | 3 17 | 12 39 | 12 44 | 21 47 | | n.a. |
| W27 | 9 28 | 27 27 | 5 7 | 18 43 | 0 26 | 12 47 | 6 28 | 18 21 | 1 9 | 5 43 | 1 33 | 20 56 | 0 57 | 23 32 | 0 32 | 23 7 | 0 19 | 19 3 | 3 17 | 12 39 | 12 45 | 21 49 | | n.a. |
| T 28 | 9s 5 | 28s16 | 4s39 | 18s41 | 0s36 | 12s56 | 6n18 | 18s 8 | 1s 9 | 5s41 | 1n33 | 20n56 | 0s56 | 23n33 | 0n32 | 23n 7 | 0s19 | 19n 3 | 3s17 | 12s38 | 12s46 | 21n51 | | n.a. |

Julian Day Number = 1699904.5, Delta T = 03h06m07s
Ecliptic obliquity = 23°42'15, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°52'38, Lahiri = - 4°45'37 Julian Calendar 1 Feb. 59 BCE == Greg. Calendar 30 Jan. 059 BCE

The year -58 astronomical counting style corresponds to year 059 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 59 BCE
# geocentric

## MARCH 59 BCE (-58) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 10 23 22 | 7♓50'43 | 9♉10 | 10♒15 | 5♒54 | 14♒ 0 | 17°R52 | 7♊55 | 13°R31 | 8°R38 | 10♊43 | 27♒ 2 | 26♒37 | 16♉48 | n.a. | F 1 |
| S 2 | 10 27 19 | 8°49'53 | 22°48 | 11° 8 | 6° 4 | 14°47 | 17♎48 | 7°58 | 13♋30 | 8♋37 | 10°43 | 27° 3 | 26°33 | 16°55 | n.a. | S 2 |
| S 3 | 10 31 15 | 9°49'00 | 6♒13 | 12° 4 | 6°15 | 15°34 | 17°44 | 8° 0 | 13°28 | 8°36 | 10°43 | 27° 4 | 26°30 | 17° 1 | n.a. | S 3 |
| M 4 | 10 35 12 | 10°48'06 | 19°26 | 13° 3 | 6°29 | 16°21 | 17°39 | 8° 2 | 13°27 | 8°36 | 10°43 | 27° 4 | 26°27 | 17° 8 | n.a. | M 4 |
| T 5 | 10 39 8 | 11°47'09 | 2♓26 | 14° 4 | 6°45 | 17° 8 | 17°34 | 8° 5 | 13°26 | 8°35 | 10°43 | 27°R 5 | 26°24 | 17°15 | n.a. | T 5 |
| W 6 | 10 43 5 | 12°46'10 | 15°12 | 15° 9 | 7° 2 | 17°54 | 17°29 | 8° 7 | 13°25 | 8°35 | 10°44 | 27° 4 | 26°21 | 17°22 | n.a. | W 6 |
| T 7 | 10 47 1 | 13°45'10 | 27°46 | 16°15 | 7°22 | 18°41 | 17°24 | 8°10 | 13°24 | 8°34 | 10°44 | 27° 2 | 26°18 | 17°28 | n.a. | T 7 |
| F 8 | 10 50 58 | 14°44'06 | 10♈ 7 | 17°25 | 7°43 | 19°28 | 17°19 | 8°13 | 13°24 | 8°34 | 10°44 | 27° 0 | 26°14 | 17°35 | n.a. | F 8 |
| S 9 | 10 54 54 | 15°43'01 | 22°17 | 18°36 | 8° 7 | 20°14 | 17°13 | 8°16 | 13°23 | 8°33 | 10°44 | 26°57 | 26°11 | 17°42 | n.a. | S 9 |
| S 10 | 10 58 51 | 16°41'54 | 4♉18 | 19°50 | 8°31 | 21° 1 | 17° 8 | 8°19 | 13°22 | 8°33 | 10°45 | 26°54 | 26° 8 | 17°48 | n.a. | S 10 |
| M11 | 11 2 48 | 17°40'44 | 16°13 | 21° 5 | 8°58 | 21°48 | 17° 2 | 8°22 | 13°21 | 8°32 | 10°45 | 26°51 | 26° 5 | 17°55 | n.a. | M11 |
| T 12 | 11 6 44 | 18°39'32 | 28° 5 | 22°23 | 9°26 | 22°34 | 16°56 | 8°25 | 13°21 | 8°32 | 10°45 | 26°49 | 26° 2 | 18° 2 | n.a. | T 12 |
| W13 | 11 10 41 | 19°38'18 | 9♊59 | 23°43 | 9°56 | 23°21 | 16°50 | 8°28 | 13°20 | 8°32 | 10°46 | 26°47 | 25°58 | 18° 9 | n.a. | W13 |
| T 14 | 11 14 37 | 20°37'01 | 21°58 | 25° 4 | 10°27 | 24° 7 | 16°44 | 8°32 | 13°19 | 8°31 | 10°46 | 26°D47 | 25°55 | 18°15 | n.a. | T 14 |
| F 15 | 11 18 34 | 21°35'42 | 4♋ 8 | 26°28 | 10°59 | 24°54 | 16°38 | 8°35 | 13°19 | 8°31 | 10°46 | 26°47 | 25°52 | 18°22 | n.a. | F 15 |
| S 16 | 11 22 30 | 22°34'21 | 16°33 | 27°53 | 11°33 | 25°40 | 16°31 | 8°39 | 13°18 | 8°31 | 10°47 | 26°49 | 25°49 | 18°29 | n.a. | S 16 |
| S 17 | 11 26 27 | 23°32'57 | 29°17 | 29°20 | 12° 8 | 26°27 | 16°25 | 8°43 | 13°18 | 8°31 | 10°47 | 26°50 | 25°46 | 18°36 | n.a. | S 17 |
| M18 | 11 30 23 | 24°31'31 | 12♌24 | 0♓49 | 12°45 | 27°13 | 16°19 | 8°46 | 13°18 | 8°30 | 10°48 | 26°52 | 25°43 | 18°42 | n.a. | M18 |
| T 19 | 11 34 20 | 25°30'03 | 25°56 | 2°20 | 13°22 | 27°59 | 16°12 | 8°50 | 13°17 | 8°30 | 10°48 | 26°R52 | 25°39 | 18°49 | n.a. | T 19 |
| W20 | 11 38 17 | 26°28'33 | 9♍53 | 3°52 | 14° 1 | 28°46 | 16° 5 | 8°54 | 13°17 | 8°30 | 10°49 | 26°52 | 25°36 | 18°56 | n.a. | W20 |
| T 21 | 11 42 13 | 27°27'00 | 24°12 | 5°26 | 14°41 | 29°32 | 15°58 | 8°58 | 13°17 | 8°30 | 10°49 | 26°50 | 25°33 | 19° 2 | n.a. | T 21 |
| F 22 | 11 46 10 | 28°25'26 | 8♎48 | 7° 2 | 15°22 | 0♓18 | 15°51 | 9° 2 | 13°17 | 8°30 | 10°50 | 26°46 | 25°30 | 19° 9 | n.a. | F 22 |
| S 23 | 11 50 6 | 29°23'50 | 23°36 | 8°39 | 16° 4 | 1° 4 | 15°44 | 9° 7 | 13°17 | 8°D30 | 10°50 | 26°42 | 25°27 | 19°16 | n.a. | S 23 |
| S 24 | 11 54 3 | 0♈22'12 | 8♏26 | 10°18 | 16°47 | 1°50 | 15°37 | 9°11 | 13°D17 | 8°30 | 10°51 | 26°37 | 25°23 | 19°23 | n.a. | S 24 |
| M25 | 11 57 59 | 1°20'32 | 23°12 | 11°59 | 17°31 | 2°37 | 15°30 | 9°15 | 13°17 | 8°30 | 10°52 | 26°33 | 25°20 | 19°29 | n.a. | M25 |
| T 26 | 12 1 56 | 2°18'50 | 7♐47 | 13°42 | 18°16 | 3°23 | 15°23 | 9°20 | 13°17 | 8°30 | 10°52 | 26°29 | 25°17 | 19°36 | n.a. | T 26 |
| W27 | 12 5 52 | 3°17'08 | 22° 5 | 15°26 | 19° 2 | 4° 9 | 15°16 | 9°24 | 13°17 | 8°30 | 10°53 | 26°27 | 25°14 | 19°43 | n.a. | W27 |
| T 28 | 12 9 49 | 4°15'23 | 6♑ 4 | 17°12 | 19°49 | 4°55 | 15° 8 | 9°29 | 13°17 | 8°31 | 10°54 | 26°D27 | 25°11 | 19°50 | n.a. | T 28 |
| F 29 | 12 13 45 | 5°13'37 | 19°44 | 19° 0 | 20°36 | 5°41 | 15° 1 | 9°34 | 13°17 | 8°31 | 10°54 | 26°27 | 25° 8 | 19°56 | n.a. | F 29 |
| S 30 | 12 17 42 | 6°11'49 | 3♒ 7 | 20°49 | 21°24 | 6°27 | 14°54 | 9°38 | 13°18 | 8°31 | 10°55 | 26°29 | 25° 4 | 20° 3 | n.a. | S 30 |
| S 31 | 12 21 39 | 7♈10'00 | 16♒12 | 22♓40 | 22♒13 | 7♓13 | 14♎46 | 9♊43 | 13♋18 | 8♋31 | 10♊56 | 26♒30 | 25♒ 1 | 20♉10 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 8s43 | 27s18 | 3s55 | 18s37 | 0s47 | 13s 4 | 6n 7 | 17s54 | 1s 9 | 5s39 | 1n33 | 20n57 | 0s56 | 23n33 | 0n32 | 23n 7 | 0s19 | 19n 3 | 3s17 | 12s38 | 12s47 | 21n53 | | n.a. |
| S 2 | 8 21 | 24 41 | 2 58 | 18 32 | 0 57 | 13 12 | 5 57 | 17 41 | 1 9 | 5 38 | 1 33 | 20 57 | 0 56 | 23 33 | 0 32 | 23 7 | 0 19 | 19 3 | 3 17 | 12 38 | 12 48 | 21 56 | | n.a. |
| S 3 | 7 58 | 20 45 | 1 53 | 18 25 | 1 6 | 13 20 | 5 46 | 17 27 | 1 9 | 5 36 | 1 33 | 20 58 | 0 56 | 23 33 | 0 32 | 23 7 | 0 19 | 19 3 | 3 17 | 12 38 | 12 49 | 21 58 | | n.a. |
| M 4 | 7 36 | 15 49 | 0 42 | 18 17 | 1 15 | 13 27 | 5 35 | 17 13 | 1 9 | 5 34 | 1 33 | 20 59 | 0 56 | 23 33 | 0 32 | 23 7 | 0 19 | 19 4 | 3 16 | 12 37 | 12 50 | 22 0 | | n.a. |
| T 5 | 7 13 | 10 16 | 0n30 | 18 7 | 1 23 | 13 34 | 5 24 | 16 58 | 1 9 | 5 32 | 1 34 | 20 59 | 0 55 | 23 33 | 0 32 | 23 7 | 0 19 | 19 4 | 3 16 | 12 37 | 12 51 | 22 2 | | n.a. |
| W 6 | 6 50 | 4 23 | 1 38 | 17 55 | 1 31 | 13 40 | 5 13 | 16 44 | 1 10 | 5 30 | 1 34 | 21 0 | 0 55 | 23 33 | 0 32 | 23 7 | 0 18 | 19 4 | 3 16 | 12 38 | 12 52 | 22 4 | | n.a. |
| T 7 | 6 27 | 1n34 | 2 41 | 17 42 | 1 38 | 13 45 | 5 3 | 16 30 | 1 10 | 5 28 | 1 34 | 21 0 | 0 55 | 23 33 | 0 32 | 23 7 | 0 18 | 19 4 | 3 16 | 12 38 | 12 53 | 22 6 | | n.a. |
| F 8 | 6 5 | 7 20 | 3 35 | 17 27 | 1 45 | 13 50 | 4 52 | 16 15 | 1 10 | 5 25 | 1 34 | 21 1 | 0 55 | 23 33 | 0 32 | 23 7 | 0 18 | 19 4 | 3 16 | 12 39 | 12 55 | 22 8 | | n.a. |
| S 9 | 5 42 | 12 46 | 4 19 | 17 11 | 1 52 | 13 55 | 4 41 | 16 0 | 1 10 | 5 23 | 1 34 | 21 2 | 0 55 | 23 33 | 0 32 | 23 7 | 0 18 | 19 4 | 3 16 | 12 40 | 12 56 | 22 10 | | n.a. |
| S 10 | 5 18 | 17 38 | 4 50 | 16 53 | 1 58 | 13 58 | 4 31 | 15 45 | 1 10 | 5 21 | 1 34 | 21 2 | 0 55 | 23 33 | 0 32 | 23 7 | 0 18 | 19 5 | 3 16 | 12 41 | 12 57 | 22 12 | | n.a. |
| M11 | 4 55 | 21 48 | 5 9 | 16 34 | 2 3 | 14 2 | 4 20 | 15 30 | 1 10 | 5 19 | 1 34 | 21 3 | 0 54 | 23 34 | 0 32 | 23 7 | 0 18 | 19 5 | 3 16 | 12 42 | 12 58 | 22 14 | | n.a. |
| T 12 | 4 32 | 25 3 | 5 14 | 16 13 | 2 8 | 14 5 | 4 10 | 15 15 | 1 10 | 5 16 | 1 35 | 21 4 | 0 54 | 23 34 | 0 32 | 23 7 | 0 18 | 19 5 | 3 15 | 12 43 | 12 59 | 22 16 | | n.a. |
| W13 | 4 9 | 27 14 | 5 6 | 15 50 | 2 12 | 14 7 | 3 59 | 14 59 | 1 10 | 5 14 | 1 35 | 21 4 | 0 54 | 23 34 | 0 32 | 23 7 | 0 18 | 19 5 | 3 15 | 12 43 | 13 0 | 22 19 | | n.a. |
| T 14 | 3 45 | 28 12 | 4 45 | 15 26 | 2 16 | 14 8 | 3 49 | 14 44 | 1 10 | 5 11 | 1 35 | 21 5 | 0 54 | 23 34 | 0 32 | 23 7 | 0 18 | 19 5 | 3 15 | 12 43 | 13 1 | 22 21 | | n.a. |
| F 15 | 3 22 | 27 48 | 4 10 | 15 1 | 2 19 | 14 9 | 3 39 | 14 28 | 1 10 | 5 9 | 1 35 | 21 6 | 0 54 | 23 34 | 0 32 | 23 7 | 0 18 | 19 5 | 3 15 | 12 43 | 13 2 | 22 23 | | n.a. |
| S 16 | 2 59 | 26 2 | 3 23 | 14 33 | 2 22 | 14 10 | 3 29 | 14 12 | 1 10 | 5 6 | 1 35 | 21 7 | 0 53 | 23 34 | 0 32 | 23 7 | 0 18 | 19 6 | 3 15 | 12 43 | 13 3 | 22 25 | | n.a. |
| S 17 | 2 35 | 22 54 | 2 26 | 14 5 | 2 24 | 14 9 | 3 19 | 13 56 | 1 10 | 5 4 | 1 35 | 21 7 | 0 53 | 23 34 | 0 32 | 23 7 | 0 18 | 19 6 | 3 15 | 12 42 | 13 4 | 22 27 | | n.a. |
| M18 | 2 12 | 18 31 | 1 18 | 13 34 | 2 26 | 14 9 | 3 10 | 13 40 | 1 10 | 5 1 | 1 35 | 21 8 | 0 53 | 23 34 | 0 32 | 23 7 | 0 18 | 19 6 | 3 15 | 12 42 | 13 5 | 22 29 | | n.a. |
| T 19 | 1 48 | 13 6 | 0 5 | 13 3 | 2 27 | 14 7 | 3 0 | 13 24 | 1 10 | 4 59 | 1 35 | 21 9 | 0 53 | 23 34 | 0 32 | 23 8 | 0 18 | 19 6 | 3 14 | 12 41 | 13 7 | 22 31 | | n.a. |
| W20 | 1 25 | 6 52 | 1s11 | 12 29 | 2 28 | 14 5 | 2 50 | 13 8 | 1 10 | 4 56 | 1 35 | 21 10 | 0 53 | 23 34 | 0 32 | 23 8 | 0 18 | 19 6 | 3 14 | 12 42 | 13 8 | 22 33 | | n.a. |
| T 21 | 1 1 | 0 8 | 2 24 | 11 55 | 2 28 | 14 3 | 2 41 | 12 52 | 1 10 | 4 53 | 1 35 | 21 11 | 0 52 | 23 34 | 0 32 | 23 8 | 0 18 | 19 7 | 3 14 | 12 42 | 13 9 | 22 35 | | n.a. |
| F 22 | 0 38 | 6s43 | 3 29 | 11 18 | 2 28 | 13 59 | 2 32 | 12 35 | 1 10 | 4 51 | 1 35 | 21 11 | 0 52 | 23 34 | 0 32 | 23 8 | 0 18 | 19 7 | 3 14 | 12 44 | 13 10 | 22 37 | | n.a. |
| S 23 | 0 15 | 13 18 | 4 21 | 10 41 | 2 27 | 13 56 | 2 23 | 12 19 | 1 10 | 4 48 | 1 35 | 21 12 | 0 52 | 23 34 | 0 32 | 23 8 | 0 18 | 19 7 | 3 14 | 12 45 | 13 11 | 22 39 | | n.a. |
| S 24 | 0n 9 | 19 8 | 4 56 | 10 1 | 2 25 | 13 51 | 2 14 | 12 2 | 1 10 | 4 45 | 1 35 | 21 13 | 0 52 | 23 34 | 0 32 | 23 8 | 0 18 | 19 7 | 3 14 | 12 47 | 13 12 | 22 41 | | n.a. |
| M25 | 0 32 | 23 47 | 5 11 | 9 21 | 2 23 | 13 46 | 2 5 | 11 45 | 1 10 | 4 42 | 1 36 | 21 14 | 0 52 | 23 34 | 0 32 | 23 8 | 0 18 | 19 8 | 3 14 | 12 48 | 13 13 | 22 43 | | n.a. |
| T 26 | 0 56 | 26 52 | 5 5 | 8 39 | 2 21 | 13 41 | 1 56 | 11 28 | 1 10 | 4 39 | 1 36 | 21 15 | 0 52 | 23 34 | 0 32 | 23 8 | 0 18 | 19 8 | 3 14 | 12 50 | 13 14 | 22 45 | | n.a. |
| W27 | 1 19 | 28 8 | 4 41 | 7 55 | 2 18 | 13 34 | 1 48 | 11 11 | 1 10 | 4 36 | 1 36 | 21 16 | 0 51 | 23 34 | 0 32 | 23 8 | 0 18 | 19 8 | 3 13 | 12 50 | 13 15 | 22 47 | | n.a. |
| T 28 | 1 43 | 27 34 | 4 0 | 7 10 | 2 14 | 13 28 | 1 40 | 10 54 | 1 10 | 4 34 | 1 36 | 21 16 | 0 51 | 23 34 | 0 32 | 23 8 | 0 18 | 19 8 | 3 13 | 12 50 | 13 16 | 22 49 | | n.a. |
| F 29 | 2 6 | 25 18 | 3 6 | 6 24 | 2 10 | 13 20 | 1 31 | 10 37 | 1 10 | 4 31 | 1 36 | 21 17 | 0 51 | 23 34 | 0 32 | 23 8 | 0 18 | 19 8 | 3 13 | 12 50 | 13 17 | 22 51 | | n.a. |
| S 30 | 2 29 | 21 41 | 2 4 | 5 36 | 2 6 | 13 12 | 1 23 | 10 20 | 1 10 | 4 28 | 1 36 | 21 18 | 0 51 | 23 33 | 0 32 | 23 8 | 0 18 | 19 9 | 3 13 | 12 50 | 13 18 | 22 53 | | n.a. |
| S 31 | 2n52 | 17s 2 | 0s56 | 4s47 | 2s 0 | 13s 4 | 1n16 | 10s 3 | 1s10 | 4s25 | 1n36 | 21n19 | 0s51 | 23n33 | 0n32 | 23n 8 | 0s18 | 19n 9 | 3s13 | 12s49 | 13s19 | 22n55 | | n.a. |

Julian Day Number = 1699932.5, Delta T = 03h06m06s
Ecliptic obliquity = 23°42'16, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°52'34, Lahiri = - 4°45'33 Julian Calendar 1 March 59 BCE == Greg. Calendar 27 Feb. 059 BCE

The year -58 astronomical counting style corresponds to year 059 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 59 BCE
# geocentric

## APRIL 59 BCE (-58) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 12 25 35 | 8♈ 8'09 | 29♒ 4 | 24♓33 | 23♒ 3 | 7♓59 | 14°R39 | 9♊48 | 13♋18 | 8♋32 | 10♊57 | 26°R30 | 24♒58 | 20♉16 | n.a. | M 1 |
| T 2 | 12 29 32 | 9° 6'17 | 11♓43 | 26°28 | 23°53 | 8°44 | 14♎31 | 9°53 | 13°19 | 8°32 | 10°57 | 26♒29 | 24°55 | 20°23 | n.a. | T 2 |
| W 3 | 12 33 28 | 10° 4'22 | 24°11 | 28°24 | 24°44 | 9°30 | 14°23 | 9°58 | 13°19 | 8°32 | 10°58 | 26°26 | 24°52 | 20°30 | n.a. | W 3 |
| T 4 | 12 37 25 | 11° 2'26 | 6♈29 | 0♈22 | 25°36 | 10°16 | 14°16 | 10° 4 | 13°20 | 8°33 | 10°59 | 26°21 | 24°49 | 20°37 | n.a. | T 4 |
| F 5 | 12 41 21 | 12° 0'29 | 18°39 | 2°22 | 26°28 | 11° 2 | 14° 8 | 10° 9 | 13°20 | 8°33 | 11° 0 | 26°13 | 24°45 | 20°43 | n.a. | F 5 |
| S 6 | 12 45 18 | 12°58'29 | 0♉42 | 4°23 | 27°21 | 11°47 | 14° 0 | 10°14 | 13°21 | 8°34 | 11° 1 | 26° 5 | 24°42 | 20°50 | n.a. | S 6 |
| S 7 | 12 49 14 | 13°56'28 | 12°39 | 6°26 | 28°15 | 12°33 | 13°53 | 10°20 | 13°22 | 8°34 | 11° 2 | 25°56 | 24°39 | 20°57 | n.a. | S 7 |
| M 8 | 12 53 11 | 14°54'25 | 24°32 | 8°31 | 29° 9 | 13°19 | 13°45 | 10°25 | 13°23 | 8°35 | 11° 3 | 25°47 | 24°36 | 21° 3 | n.a. | M 8 |
| T 9 | 12 57 8 | 15°52'21 | 6♊24 | 10°36 | 0♓ 3 | 14° 4 | 13°38 | 10°31 | 13°23 | 8°35 | 11° 4 | 25°39 | 24°33 | 21°10 | n.a. | T 9 |
| W10 | 13 1 4 | 16°50'14 | 18°17 | 12°43 | 0°58 | 14°50 | 13°30 | 10°36 | 13°24 | 8°36 | 11° 4 | 25°33 | 24°29 | 21°17 | n.a. | W10 |
| T 11 | 13 5 1 | 17°48'06 | 0♋14 | 14°52 | 1°54 | 15°35 | 13°22 | 10°42 | 13°25 | 8°36 | 11° 5 | 25°30 | 24°26 | 21°24 | n.a. | T 11 |
| F 12 | 13 8 57 | 18°45'56 | 12°22 | 17° 1 | 2°50 | 16°20 | 13°15 | 10°48 | 13°26 | 8°37 | 11° 6 | 25°28 | 24°23 | 21°30 | n.a. | F 12 |
| S 13 | 13 12 54 | 19°43'44 | 24°43 | 19°11 | 3°46 | 17° 6 | 13° 7 | 10°54 | 13°27 | 8°38 | 11° 7 | 25°D28 | 24°20 | 21°37 | n.a. | S 13 |
| S 14 | 13 16 50 | 20°41'30 | 7♌24 | 21°21 | 4°43 | 17°51 | 13° 0 | 11° 0 | 13°28 | 8°38 | 11° 8 | 25°29 | 24°17 | 21°44 | n.a. | S 14 |
| M15 | 13 20 47 | 21°39'15 | 20°28 | 23°32 | 5°40 | 18°36 | 12°52 | 11° 6 | 13°29 | 8°39 | 11° 9 | 25°R29 | 24°14 | 21°51 | n.a. | M15 |
| T 16 | 13 24 43 | 22°36'57 | 3♍58 | 25°42 | 6°38 | 19°21 | 12°45 | 11°12 | 13°31 | 8°40 | 11°10 | 25°29 | 24°10 | 21°57 | n.a. | T 16 |
| W17 | 13 28 40 | 23°34'38 | 17°57 | 27°53 | 7°36 | 20° 7 | 12°37 | 11°18 | 13°32 | 8°41 | 11°12 | 25°27 | 24° 7 | 22° 4 | n.a. | W17 |
| T 18 | 13 32 37 | 24°32'18 | 2♎24 | 0♉ 3 | 8°35 | 20°52 | 12°30 | 11°24 | 13°33 | 8°42 | 11°13 | 25°23 | 24° 4 | 22°11 | n.a. | T 18 |
| F 19 | 13 36 33 | 25°29'55 | 17°14 | 2°12 | 9°34 | 21°37 | 12°22 | 11°30 | 13°34 | 8°42 | 11°14 | 25°16 | 24° 1 | 22°17 | n.a. | F 19 |
| S 20 | 13 40 30 | 26°27'32 | 2♏21 | 4°20 | 10°33 | 22°22 | 12°15 | 11°36 | 13°36 | 8°43 | 11°15 | 25° 8 | 23°58 | 22°24 | n.a. | S 20 |
| S 21 | 13 44 26 | 27°25'07 | 17°33 | 6°27 | 11°32 | 23° 7 | 12° 8 | 11°43 | 13°37 | 8°44 | 11°16 | 24°59 | 23°54 | 22°31 | n.a. | S 21 |
| M22 | 13 48 23 | 28°22'41 | 2♐40 | 8°32 | 12°32 | 23°52 | 12° 1 | 11°49 | 13°39 | 8°45 | 11°17 | 24°50 | 23°51 | 22°38 | n.a. | M22 |
| T 23 | 13 52 19 | 29°20'14 | 17°34 | 10°36 | 13°33 | 24°36 | 11°54 | 11°55 | 13°40 | 8°46 | 11°18 | 24°43 | 23°48 | 22°44 | n.a. | T 23 |
| W24 | 13 56 16 | 0♑17'45 | 2♑ 6 | 12°37 | 14°33 | 25°21 | 11°47 | 12° 2 | 13°42 | 8°47 | 11°19 | 24°38 | 23°45 | 22°51 | n.a. | W24 |
| T 25 | 14 0 12 | 1°15'16 | 16°14 | 14°37 | 15°34 | 26° 6 | 11°40 | 12° 8 | 13°43 | 8°48 | 11°21 | 24°35 | 23°42 | 22°58 | n.a. | T 25 |
| F 26 | 14 4 9 | 2°12'46 | 29°55 | 16°33 | 16°35 | 26°51 | 11°33 | 12°15 | 13°45 | 8°49 | 11°22 | 24°D34 | 23°39 | 23° 5 | n.a. | F 26 |
| S 27 | 14 8 6 | 3°10'15 | 13♒13 | 18°28 | 17°37 | 27°35 | 11°27 | 12°22 | 13°47 | 8°51 | 11°23 | 24°34 | 23°35 | 23°11 | n.a. | S 27 |
| S 28 | 14 12 2 | 4° 7'43 | 26°10 | 20°20 | 18°39 | 28°20 | 11°20 | 12°28 | 13°49 | 8°52 | 11°24 | 24°R34 | 23°32 | 23°18 | n.a. | S 28 |
| M29 | 14 15 59 | 5° 5'11 | 8♓49 | 22° 9 | 19°41 | 29° 4 | 11°14 | 12°35 | 13°50 | 8°53 | 11°26 | 24°34 | 23°29 | 23°25 | n.a. | M29 |
| T 30 | 14 19 55 | 6♉ 2'37 | 21♓14 | 23♉56 | 20♓43 | 29♓49 | 11♎ 7 | 12♊42 | 13♋52 | 8♋54 | 11♊27 | 24♒31 | 23♒26 | 23♉31 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 3n16 | 11s43 | 0n14 | 3s56 | 1s55 | 12s55 | 1n 8 | 9s45 | 1s10 | 4s22 | 1n36 | 21n20 | 0s51 | 23n33 | 0n32 | 23n 8 | 0s18 | 19n 9 | 3s13 | 12s49 | 13s21 | 22n57 | | n.a. |
| T 2 | 3 39 | 6 0 | 1 21 | 3 5 | 1 49 | 12 45 | 1 0 | 9 28 | 1 10 | 4 19 | 1 36 | 21 21 | 0 50 | 23 33 | 0 32 | 23 8 | 0 18 | 19 9 | 3 13 | 12 50 | 13 22 | 22 58 | | n.a. |
| W 3 | 4 2 | 0 8 | 2 24 | 2 12 | 1 42 | 12 35 | 0 53 | 9 10 | 1 10 | 4 16 | 1 36 | 21 22 | 0 50 | 23 33 | 0 32 | 23 8 | 0 18 | 19 10 | 3 13 | 12 51 | 13 23 | 23 0 | | n.a. |
| T 4 | 4 25 | 5n38 | 3 19 | 1 18 | 1 35 | 12 25 | 0 46 | 8 53 | 1 10 | 4 13 | 1 36 | 21 23 | 0 50 | 23 33 | 0 32 | 23 8 | 0 18 | 19 10 | 3 12 | 12 52 | 13 24 | 23 2 | | n.a. |
| F 5 | 4 48 | 11 8 | 4 4 | 0 22 | 1 27 | 12 14 | 0 39 | 8 35 | 1 10 | 4 10 | 1 35 | 21 24 | 0 50 | 23 33 | 0 32 | 23 8 | 0 18 | 19 10 | 3 12 | 12 55 | 13 25 | 23 4 | | n.a. |
| S 6 | 5 11 | 16 10 | 4 37 | 0n34 | 1 19 | 12 2 | 0 32 | 8 17 | 1 10 | 4 7 | 1 35 | 21 25 | 0 50 | 23 33 | 0 32 | 23 8 | 0 18 | 19 10 | 3 12 | 12 58 | 13 26 | 23 6 | | n.a. |
| S 7 | 5 33 | 20 32 | 4 58 | 1 31 | 1 10 | 11 50 | 0 25 | 8 0 | 1 9 | 4 4 | 1 35 | 21 26 | 0 50 | 23 33 | 0 32 | 23 8 | 0 18 | 19 10 | 3 12 | 13 1 | 13 27 | 23 8 | | n.a. |
| M 8 | 5 56 | 24 3 | 5 6 | 2 29 | 1 1 | 11 37 | 0 18 | 7 42 | 1 9 | 4 1 | 1 35 | 21 27 | 0 49 | 23 33 | 0 32 | 23 8 | 0 18 | 19 11 | 3 12 | 13 4 | 13 28 | 23 10 | | n.a. |
| T 9 | 6 19 | 26 33 | 5 1 | 3 27 | 0 52 | 11 24 | 0 12 | 7 24 | 1 9 | 3 58 | 1 35 | 21 28 | 0 49 | 23 33 | 0 32 | 23 8 | 0 18 | 19 11 | 3 12 | 13 7 | 13 29 | 23 12 | | n.a. |
| W10 | 6 41 | 27 53 | 4 43 | 4 26 | 0 42 | 11 10 | 0 5 | 7 6 | 1 9 | 3 55 | 1 35 | 21 29 | 0 49 | 23 33 | 0 31 | 23 8 | 0 18 | 19 11 | 3 12 | 13 9 | 13 30 | 23 14 | | n.a. |
| T 11 | 7 4 | 27 55 | 4 12 | 5 25 | 0 32 | 10 56 | 0s 1 | 6 48 | 1 9 | 3 53 | 1 35 | 21 29 | 0 49 | 23 32 | 0 31 | 23 8 | 0 18 | 19 11 | 3 12 | 13 10 | 13 31 | 23 16 | | n.a. |
| F 12 | 7 26 | 26 36 | 3 30 | 6 25 | 0 22 | 10 41 | 0 7 | 6 30 | 1 9 | 3 50 | 1 35 | 21 30 | 0 49 | 23 32 | 0 31 | 23 8 | 0 18 | 19 12 | 3 11 | 13 10 | 13 32 | 23 17 | | n.a. |
| S 13 | 7 48 | 24 0 | 2 37 | 7 25 | 0 11 | 10 26 | 0 13 | 6 12 | 1 9 | 3 47 | 1 35 | 21 31 | 0 49 | 23 32 | 0 31 | 23 8 | 0 18 | 19 12 | 3 11 | 13 10 | 13 33 | 23 19 | | n.a. |
| S 14 | 8 10 | 20 10 | 1 35 | 8 24 | 0 1 | 10 11 | 0 19 | 5 54 | 1 8 | 3 44 | 1 35 | 21 32 | 0 48 | 23 32 | 0 31 | 23 8 | 0 18 | 19 12 | 3 11 | 13 10 | 13 34 | 23 21 | | n.a. |
| M15 | 8 32 | 15 15 | 0 27 | 9 23 | 0n10 | 9 55 | 0 24 | 5 36 | 1 8 | 3 41 | 1 35 | 21 33 | 0 48 | 23 32 | 0 31 | 23 8 | 0 18 | 19 12 | 3 11 | 13 10 | 13 36 | 23 23 | | n.a. |
| T 16 | 8 54 | 9 28 | 0s45 | 10 21 | 0 20 | 9 38 | 0 30 | 5 18 | 1 8 | 3 38 | 1 35 | 21 34 | 0 48 | 23 32 | 0 31 | 23 8 | 0 18 | 19 13 | 3 11 | 13 10 | 13 37 | 23 25 | | n.a. |
| W17 | 9 15 | 3 1 | 1 57 | 11 19 | 0 31 | 9 21 | 0 35 | 5 0 | 1 8 | 3 35 | 1 35 | 21 35 | 0 48 | 23 32 | 0 31 | 23 7 | 0 18 | 19 13 | 3 11 | 13 11 | 13 38 | 23 27 | | n.a. |
| T 18 | 9 37 | 3s46 | 3 4 | 12 15 | 0 41 | 9 4 | 0 40 | 4 42 | 1 8 | 3 33 | 1 34 | 21 36 | 0 48 | 23 32 | 0 31 | 23 7 | 0 18 | 19 13 | 3 11 | 13 12 | 13 39 | 23 29 | | n.a. |
| F 19 | 9 58 | 10 31 | 4 0 | 13 10 | 0 51 | 8 46 | 0 45 | 4 24 | 1 7 | 3 30 | 1 34 | 21 37 | 0 48 | 23 31 | 0 31 | 23 7 | 0 18 | 19 14 | 3 11 | 13 14 | 13 40 | 23 30 | | n.a. |
| S 20 | 10 19 | 16 47 | 4 40 | 14 4 | 1 1 | 8 28 | 0 50 | 4 5 | 1 7 | 3 27 | 1 34 | 21 38 | 0 48 | 23 31 | 0 31 | 23 7 | 0 17 | 19 14 | 3 11 | 13 17 | 13 41 | 23 32 | | n.a. |
| S 21 | 10 40 | 22 3 | 5 1 | 14 56 | 1 10 | 8 10 | 0 55 | 3 47 | 1 7 | 3 24 | 1 34 | 21 39 | 0 47 | 23 31 | 0 31 | 23 7 | 0 17 | 19 14 | 3 10 | 13 20 | 13 42 | 23 34 | | n.a. |
| M22 | 11 1 | 25 50 | 5 1 | 15 45 | 1 19 | 7 51 | 1 0 | 3 29 | 1 7 | 3 22 | 1 34 | 21 40 | 0 47 | 23 31 | 0 31 | 23 7 | 0 17 | 19 14 | 3 10 | 13 23 | 13 43 | 23 36 | | n.a. |
| T 23 | 11 22 | 27 45 | 4 40 | 16 33 | 1 28 | 7 31 | 1 4 | 3 11 | 1 7 | 3 19 | 1 34 | 21 41 | 0 47 | 23 31 | 0 31 | 23 7 | 0 17 | 19 15 | 3 10 | 13 26 | 13 44 | 23 38 | | n.a. |
| W24 | 11 42 | 27 43 | 4 1 | 17 19 | 1 36 | 7 12 | 1 8 | 2 53 | 1 6 | 3 17 | 1 34 | 21 42 | 0 47 | 23 30 | 0 31 | 23 7 | 0 17 | 19 15 | 3 10 | 13 27 | 13 45 | 23 39 | | n.a. |
| T 25 | 12 2 | 25 50 | 3 9 | 18 2 | 1 43 | 6 52 | 1 13 | 2 35 | 1 6 | 3 14 | 1 33 | 21 43 | 0 47 | 23 30 | 0 31 | 23 7 | 0 17 | 19 15 | 3 10 | 13 28 | 13 46 | 23 41 | | n.a. |
| F 26 | 12 22 | 22 28 | 2 7 | 18 43 | 1 50 | 6 32 | 1 17 | 2 16 | 1 6 | 3 11 | 1 33 | 21 44 | 0 47 | 23 30 | 0 31 | 23 7 | 0 17 | 19 15 | 3 10 | 13 29 | 13 47 | 23 43 | | n.a. |
| S 27 | 12 42 | 18 0 | 1 0 | 19 22 | 1 56 | 6 11 | 1 21 | 1 58 | 1 6 | 3 9 | 1 33 | 21 45 | 0 47 | 23 30 | 0 31 | 23 7 | 0 17 | 19 16 | 3 10 | 13 29 | 13 48 | 23 45 | | n.a. |
| S 28 | 13 2 | 12 48 | 0n 8 | 19 58 | 2 1 | 5 50 | 1 24 | 1 40 | 1 5 | 3 7 | 1 33 | 21 46 | 0 46 | 23 30 | 0 31 | 23 7 | 0 17 | 19 16 | 3 10 | 13 29 | 13 49 | 23 46 | | n.a. |
| M29 | 13 22 | 7 12 | 1 15 | 20 32 | 2 6 | 5 29 | 1 28 | 1 22 | 1 5 | 3 4 | 1 33 | 21 47 | 0 46 | 23 29 | 0 31 | 23 7 | 0 17 | 19 16 | 3 10 | 13 29 | 13 50 | 23 48 | | n.a. |
| T 30 | 13n41 | 1s26 | 2n16 | 21n 3 | 2n10 | 5s 7 | 1s31 | 1s 4 | 1s 5 | 3s 2 | 1n33 | 21n48 | 0s46 | 23n29 | 0n31 | 23n 7 | 0s17 | 19n16 | 3s10 | 13s30 | 13s51 | 23n50 | | n.a. |

Julian Day Number = 1699963.5, Delta T = 03h06m05s
Ecliptic obliquity = 23°42'16, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°52'30, Lahiri = - 4°45'29 Julian Calendar 1 Apr. 59 BCE == Greg. Calendar 30 March 059 BCE

The year -58 astronomical counting style corresponds to year 059 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 59 BCE
# geocentric

## MAY 59 BCE (-58) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 14 23 52 | 7♉ 0'02 | 3♈28 | 25♉39 | 21♓46 | 0♈33 | 11°R 1 | 12♊49 | 13♋54 | 8♋55 | 11♊28 | 24°R25 | 23♒23 | 23♉38 | n.a. | W 1 |
| T 2 | 14 27 48 | 7°57'27 | 15°35 | 27°20 | 22°48 | 1°18 | 10♎55 | 12°56 | 13°56 | 8°57 | 11°29 | 24♒17 | 23°20 | 23°45 | n.a. | T 2 |
| F 3 | 14 31 45 | 8°54'50 | 27°35 | 28°58 | 23°51 | 2° 2 | 10°49 | 13° 3 | 13°58 | 8°58 | 11°31 | 24° 6 | 23°16 | 23°52 | n.a. | F 3 |
| S 4 | 14 35 41 | 9°52'13 | 9♉32 | 0♊33 | 24°55 | 2°46 | 10°43 | 13° 9 | 14° 0 | 8°59 | 11°32 | 23°53 | 23°13 | 23°58 | n.a. | S 4 |
| S 5 | 14 39 38 | 10°49'35 | 21°25 | 2° 6 | 25°58 | 3°30 | 10°37 | 13°16 | 14° 2 | 9° 0 | 11°33 | 23°40 | 23°10 | 24° 5 | n.a. | S 5 |
| M 6 | 14 43 35 | 11°46'55 | 3♊17 | 3°35 | 27° 2 | 4°15 | 10°31 | 13°24 | 14° 4 | 9° 2 | 11°35 | 23°27 | 23° 7 | 24°12 | n.a. | M 6 |
| T 7 | 14 47 31 | 12°44'15 | 15° 8 | 5° 1 | 28° 6 | 4°59 | 10°26 | 13°31 | 14° 6 | 9° 3 | 11°36 | 23°15 | 23° 4 | 24°18 | n.a. | T 7 |
| W 8 | 14 51 28 | 13°41'34 | 27° 2 | 6°25 | 29°10 | 5°43 | 10°20 | 13°38 | 14° 9 | 9° 5 | 11°37 | 23° 5 | 23° 0 | 24°25 | n.a. | W 8 |
| T 9 | 14 55 24 | 14°38'52 | 9♋ 2 | 7°45 | 0♈14 | 6°27 | 10°15 | 13°45 | 14°11 | 9° 6 | 11°39 | 22°58 | 22°57 | 24°32 | n.a. | T 9 |
| F 10 | 14 59 21 | 15°36'09 | 21° 9 | 9° 2 | 1°19 | 7°11 | 10°10 | 13°52 | 14°13 | 9° 7 | 11°40 | 22°54 | 22°54 | 24°39 | n.a. | F 10 |
| S 11 | 15 3 17 | 16°33'25 | 3♌29 | 10°16 | 2°23 | 7°54 | 10° 5 | 13°59 | 14°16 | 9° 9 | 11°41 | 22°52 | 22°51 | 24°45 | n.a. | S 11 |
| S 12 | 15 7 14 | 17°30'40 | 16° 7 | 11°27 | 3°28 | 8°38 | 10° 0 | 14° 7 | 14°18 | 9°10 | 11°43 | 22°52 | 22°48 | 24°52 | n.a. | S 12 |
| M13 | 15 11 10 | 18°27'53 | 29° 6 | 12°34 | 4°33 | 9°22 | 9°55 | 14°14 | 14°20 | 9°12 | 11°44 | 22°52 | 22°45 | 24°59 | n.a. | M13 |
| T 14 | 15 15 7 | 19°25'06 | 12♍31 | 13°39 | 5°39 | 10° 5 | 9°51 | 14°21 | 14°23 | 9°14 | 11°46 | 22°51 | 22°41 | 25° 6 | n.a. | T 14 |
| W15 | 15 19 4 | 20°22'18 | 26°24 | 14°39 | 6°44 | 10°49 | 9°47 | 14°29 | 14°25 | 9°15 | 11°47 | 22°48 | 22°38 | 25°12 | n.a. | W15 |
| T 16 | 15 23 0 | 21°19'29 | 10♎47 | 15°37 | 7°49 | 11°33 | 9°42 | 14°36 | 14°28 | 9°17 | 11°48 | 22°43 | 22°35 | 25°19 | n.a. | T 16 |
| F 17 | 15 26 57 | 22°16'39 | 25°36 | 16°31 | 8°55 | 12°16 | 9°38 | 14°43 | 14°30 | 9°18 | 11°50 | 22°35 | 22°32 | 25°26 | n.a. | F 17 |
| S 18 | 15 30 53 | 23°13'49 | 10♏45 | 17°21 | 10° 1 | 12°59 | 9°34 | 14°51 | 14°33 | 9°20 | 11°51 | 22°26 | 22°29 | 25°32 | n.a. | S 18 |
| S 19 | 15 34 50 | 24°10'58 | 26° 5 | 18° 7 | 11° 7 | 13°43 | 9°31 | 14°58 | 14°36 | 9°22 | 11°53 | 22°15 | 22°26 | 25°39 | n.a. | S 19 |
| M20 | 15 38 46 | 25° 8'06 | 11♐23 | 18°50 | 12°13 | 14°26 | 9°27 | 15° 6 | 14°38 | 9°23 | 11°54 | 22° 5 | 22°22 | 25°46 | n.a. | M20 |
| T 21 | 15 42 43 | 26° 5'15 | 26°29 | 19°28 | 13°20 | 15° 9 | 9°24 | 15°13 | 14°41 | 9°25 | 11°56 | 21°56 | 22°19 | 25°53 | n.a. | T 21 |
| W22 | 15 46 39 | 27° 2'23 | 11♑14 | 20° 3 | 14°26 | 15°52 | 9°21 | 15°21 | 14°44 | 9°27 | 11°57 | 21°49 | 22°16 | 25°59 | n.a. | W22 |
| T 23 | 15 50 36 | 27°59'31 | 25°32 | 20°33 | 15°33 | 16°35 | 9°18 | 15°29 | 14°47 | 9°29 | 11°59 | 21°45 | 22°13 | 26° 6 | n.a. | T 23 |
| F 24 | 15 54 33 | 28°56'38 | 9♒21 | 20°59 | 16°39 | 17°18 | 9°15 | 15°36 | 14°49 | 9°30 | 12° 0 | 21°43 | 22°10 | 26°13 | n.a. | F 24 |
| S 25 | 15 58 29 | 29°53'46 | 22°43 | 21°21 | 17°46 | 18° 1 | 9°12 | 15°44 | 14°52 | 9°32 | 12° 2 | 21°43 | 22° 6 | 26°20 | n.a. | S 25 |
| S 26 | 16 2 26 | 0♊50'54 | 5♓39 | 21°38 | 18°53 | 18°44 | 9° 9 | 15°51 | 14°55 | 9°34 | 12° 3 | 21°43 | 22° 3 | 26°26 | n.a. | S 26 |
| M27 | 16 6 22 | 1°48'01 | 18°15 | 21°51 | 20° 1 | 19°27 | 9° 7 | 15°59 | 14°58 | 9°36 | 12° 4 | 21°42 | 22° 0 | 26°33 | n.a. | M27 |
| T 28 | 16 10 19 | 2°45'09 | 0♈35 | 22° 0 | 21° 8 | 20°10 | 9° 5 | 16° 7 | 15° 1 | 9°38 | 12° 6 | 21°40 | 21°57 | 26°40 | n.a. | T 28 |
| W29 | 16 14 15 | 3°42'17 | 12°42 | 22°R 3 | 22°15 | 20°53 | 9° 3 | 16°14 | 15° 4 | 9°39 | 12° 7 | 21°34 | 21°54 | 26°46 | n.a. | W29 |
| T 30 | 16 18 12 | 4°39'25 | 24°42 | 22° 2 | 23°23 | 21°35 | 9° 1 | 16°22 | 15° 7 | 9°41 | 12° 9 | 21°26 | 21°51 | 26°53 | n.a. | T 30 |
| F 31 | 16 22 9 | 5♊36'33 | 6♉37 | 21♊57 | 24♈31 | 22♈18 | 8♎59 | 16♊30 | 15♋10 | 9♋43 | 12♊10 | 21♒16 | 21♒47 | 27♉ 0 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 14n 0 | 4n18 | 3n11 | 21n32 | 2n13 | 4s45 | 1s35 | 0s46 | 1s 4 | 3s 0 | 1n32 | 21n49 | 0s46 | 23n29 | 0n31 | 23n 7 | 0s17 | 19n17 | 3s 9 | 13s32 | 13s53 | 23n52 | | n.a. |
| T 2 | 14 19 | 9 49 | 3 55 | 21 59 | 2 15 | 4 23 | 1 38 | 0 27 | 1 4 | 2 57 | 1 32 | 21 50 | 0 46 | 23 29 | 0 31 | 23 7 | 0 17 | 19 17 | 3 9 | 13 34 | 13 54 | 23 53 | | n.a. |
| F 3 | 14 38 | 14 54 | 4 29 | 22 23 | 2 17 | 4 1 | 1 41 | 0 9 | 1 4 | 2 55 | 1 32 | 21 51 | 0 46 | 23 29 | 0 31 | 23 7 | 0 17 | 19 17 | 3 9 | 13 38 | 13 55 | 23 55 | | n.a. |
| S 4 | 14 56 | 19 25 | 4 51 | 22 44 | 2 18 | 3 38 | 1 44 | 0n 9 | 1 3 | 2 53 | 1 32 | 21 52 | 0 46 | 23 28 | 0 31 | 23 7 | 0 17 | 19 18 | 3 9 | 13 42 | 13 56 | 23 57 | | n.a. |
| S 5 | 15 14 | 23 8 | 5 0 | 23 4 | 2 18 | 3 15 | 1 47 | 0 27 | 1 3 | 2 51 | 1 31 | 21 53 | 0 46 | 23 28 | 0 31 | 23 7 | 0 17 | 19 18 | 3 9 | 13 47 | 13 57 | 23 59 | | n.a. |
| M 6 | 15 32 | 25 53 | 4 56 | 23 21 | 2 17 | 2 52 | 1 50 | 0 45 | 1 3 | 2 49 | 1 31 | 21 54 | 0 45 | 23 28 | 0 31 | 23 6 | 0 17 | 19 18 | 3 9 | 13 51 | 13 58 | 24 0 | | n.a. |
| T 7 | 15 50 | 27 29 | 4 39 | 23 36 | 2 16 | 2 29 | 1 52 | 1 3 | 1 2 | 2 47 | 1 31 | 21 55 | 0 45 | 23 28 | 0 31 | 23 6 | 0 17 | 19 18 | 3 9 | 13 55 | 13 59 | 24 2 | | n.a. |
| W 8 | 16 7 | 27 50 | 4 10 | 23 48 | 2 13 | 2 5 | 1 55 | 1 21 | 1 2 | 2 45 | 1 31 | 21 56 | 0 45 | 23 27 | 0 31 | 23 6 | 0 17 | 19 19 | 3 9 | 13 58 | 14 0 | 24 4 | | n.a. |
| T 9 | 16 25 | 26 52 | 3 29 | 23 59 | 2 10 | 1 41 | 1 57 | 1 39 | 1 2 | 2 43 | 1 31 | 21 57 | 0 45 | 23 27 | 0 31 | 23 6 | 0 17 | 19 19 | 3 9 | 14 1 | 14 1 | 24 5 | | n.a. |
| F 10 | 16 42 | 24 38 | 2 39 | 24 8 | 2 7 | 1 17 | 1 59 | 1 56 | 1 1 | 2 41 | 1 30 | 21 58 | 0 45 | 23 27 | 0 31 | 23 6 | 0 17 | 19 19 | 3 9 | 14 2 | 14 2 | 24 7 | | n.a. |
| S 11 | 16 58 | 21 13 | 1 40 | 24 15 | 2 2 | 0 53 | 2 1 | 2 14 | 1 1 | 2 39 | 1 30 | 21 59 | 0 45 | 23 27 | 0 31 | 23 6 | 0 17 | 19 19 | 3 9 | 14 3 | 14 3 | 24 9 | | n.a. |
| S 12 | 17 15 | 16 45 | 0 36 | 24 20 | 1 57 | 0 29 | 2 3 | 2 32 | 1 1 | 2 38 | 1 30 | 22 0 | 0 45 | 23 26 | 0 31 | 23 6 | 0 17 | 19 20 | 3 8 | 14 3 | 14 4 | 24 10 | | n.a. |
| M13 | 17 31 | 11 24 | 0s33 | 24 23 | 1 51 | 0 5 | 2 5 | 2 50 | 1 0 | 2 36 | 1 30 | 22 1 | 0 45 | 23 26 | 0 31 | 23 6 | 0 17 | 19 20 | 3 8 | 14 3 | 14 5 | 24 12 | | n.a. |
| T 14 | 17 47 | 5 22 | 1 42 | 24 24 | 1 44 | 0n20 | 2 7 | 3 7 | 1 0 | 2 35 | 1 29 | 22 2 | 0 44 | 23 26 | 0 31 | 23 6 | 0 17 | 19 20 | 3 8 | 14 3 | 14 6 | 24 14 | | n.a. |
| W15 | 18 2 | 1s 6 | 2 47 | 24 24 | 1 36 | 0 45 | 2 8 | 3 25 | 1 0 | 2 33 | 1 29 | 22 3 | 0 44 | 23 25 | 0 31 | 23 6 | 0 17 | 19 20 | 3 8 | 14 4 | 14 7 | 24 15 | | n.a. |
| T 16 | 18 17 | 7 44 | 3 44 | 24 22 | 1 28 | 1 9 | 2 10 | 3 43 | 0 59 | 2 32 | 1 29 | 22 4 | 0 44 | 23 25 | 0 31 | 23 6 | 0 17 | 19 21 | 3 8 | 14 6 | 14 8 | 24 17 | | n.a. |
| F 17 | 18 32 | 14 9 | 4 28 | 24 19 | 1 19 | 1 34 | 2 11 | 4 0 | 0 59 | 2 30 | 1 29 | 22 5 | 0 44 | 23 25 | 0 31 | 23 6 | 0 17 | 19 21 | 3 8 | 14 8 | 14 9 | 24 19 | | n.a. |
| S 18 | 18 47 | 19 51 | 4 54 | 24 15 | 1 9 | 1 59 | 2 12 | 4 17 | 0 58 | 2 29 | 1 28 | 22 6 | 0 44 | 23 25 | 0 31 | 23 5 | 0 17 | 19 21 | 3 8 | 14 11 | 14 10 | 24 20 | | n.a. |
| S 19 | 19 2 | 24 20 | 4 59 | 24 8 | 0 59 | 2 24 | 2 13 | 4 35 | 0 58 | 2 28 | 1 28 | 22 7 | 0 44 | 23 24 | 0 31 | 23 5 | 0 17 | 19 22 | 3 8 | 14 15 | 14 11 | 24 22 | | n.a. |
| M20 | 19 16 | 27 4 | 4 43 | 24 1 | 0 48 | 2 50 | 2 14 | 4 52 | 0 57 | 2 27 | 1 28 | 22 8 | 0 44 | 23 24 | 0 31 | 23 5 | 0 17 | 19 22 | 3 8 | 14 18 | 14 12 | 24 24 | | n.a. |
| T 21 | 19 29 | 27 47 | 4 8 | 23 53 | 0 36 | 3 15 | 2 15 | 5 9 | 0 57 | 2 25 | 1 27 | 22 9 | 0 44 | 23 24 | 0 31 | 23 5 | 0 17 | 19 22 | 3 8 | 14 21 | 14 14 | 24 25 | | n.a. |
| W22 | 19 43 | 26 29 | 3 16 | 23 43 | 0 23 | 3 40 | 2 16 | 5 27 | 0 57 | 2 24 | 1 27 | 22 10 | 0 44 | 23 23 | 0 31 | 23 5 | 0 17 | 19 22 | 3 8 | 14 23 | 14 15 | 24 27 | | n.a. |
| T 23 | 19 56 | 23 27 | 2 14 | 23 32 | 0 10 | 4 5 | 2 16 | 5 44 | 0 56 | 2 24 | 1 27 | 22 11 | 0 43 | 23 23 | 0 31 | 23 5 | 0 17 | 19 23 | 3 8 | 14 25 | 14 16 | 24 28 | | n.a. |
| F 24 | 20 9 | 19 9 | 1 5 | 23 20 | 0s 3 | 4 31 | 2 17 | 6 1 | 0 56 | 2 23 | 1 27 | 22 12 | 0 43 | 23 23 | 0 31 | 23 5 | 0 17 | 19 23 | 3 7 | 14 25 | 14 17 | 24 30 | | n.a. |
| S 25 | 20 21 | 14 1 | 0n 5 | 23 8 | 0 17 | 4 56 | 2 17 | 6 18 | 0 55 | 2 22 | 1 26 | 22 13 | 0 43 | 23 22 | 0 31 | 23 5 | 0 17 | 19 23 | 3 7 | 14 25 | 14 18 | 24 32 | | n.a. |
| S 26 | 20 33 | 8 25 | 1 13 | 22 54 | 0 32 | 5 22 | 2 18 | 6 35 | 0 55 | 2 21 | 1 26 | 22 14 | 0 43 | 23 22 | 0 31 | 23 5 | 0 17 | 19 23 | 3 7 | 14 25 | 14 19 | 24 33 | | n.a. |
| M27 | 20 45 | 2 37 | 2 15 | 22 40 | 0 47 | 5 47 | 2 18 | 6 51 | 0 54 | 2 20 | 1 26 | 22 15 | 0 43 | 23 22 | 0 31 | 23 4 | 0 17 | 19 24 | 3 7 | 14 26 | 14 20 | 24 35 | | n.a. |
| T 28 | 20 56 | 3n 8 | 3 10 | 22 25 | 1 3 | 6 12 | 2 18 | 7 8 | 0 54 | 2 20 | 1 26 | 22 16 | 0 43 | 23 21 | 0 31 | 23 4 | 0 17 | 19 24 | 3 7 | 14 26 | 14 21 | 24 36 | | n.a. |
| W29 | 21 8 | 8 40 | 3 55 | 22 10 | 1 18 | 6 38 | 2 18 | 7 25 | 0 53 | 2 19 | 1 25 | 22 17 | 0 43 | 23 21 | 0 31 | 23 4 | 0 17 | 19 24 | 3 7 | 14 28 | 14 22 | 24 38 | | n.a. |
| T 30 | 21 18 | 13 50 | 4 29 | 21 54 | 1 34 | 7 3 | 2 18 | 7 41 | 0 53 | 2 19 | 1 25 | 22 17 | 0 43 | 23 21 | 0 31 | 23 4 | 0 17 | 19 24 | 3 7 | 14 31 | 14 23 | 24 39 | | n.a. |
| F 31 | 21n29 | 18n26 | 4n51 | 21n37 | 1s50 | 7n28 | 2s18 | 7n58 | 0s52 | 2s18 | 1n25 | 22n18 | 0s43 | 23n20 | 0n31 | 23n 4 | 0s17 | 19n25 | 3s 7 | 14s34 | 14s24 | 24n41 | | n.a. |

Julian Day Number = 1699993.5, Delta T = 03h06m04s
Ecliptic obliquity = 23°42'15, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°52'25, Lahiri = - 4°45'25 Julian Calendar 1 May 59 BCE == Greg. Calendar 29 Apr. 059 BCE

The year -58 astronomical counting style corresponds to year 059 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 59 BCE
# geocentric

## JUNE 59 BCE (-58) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 26 5 | 6♊33'41 | 18♉29 | 21°R47 | 25♈38 | 23♈ 0 | 8°R58 | 16♊38 | 15♋13 | 9♋45 | 12♊12 | 21°R 4 | 21♒44 | 27♉ 7 | n.a. | S 1 |
| S 2 | 16 30 2 | 7°30'49 | 0♊21 | 21♊33 | 26°46 | 23°43 | 8♎57 | 16°45 | 15°16 | 9°47 | 12°13 | 20♒50 | 21°41 | 27°13 | n.a. | S 2 |
| M 3 | 16 33 58 | 8°27'57 | 12°14 | 21°14 | 27°54 | 24°25 | 8°55 | 16°53 | 15°19 | 9°49 | 12°15 | 20°38 | 21°38 | 27°20 | n.a. | M 3 |
| T 4 | 16 37 55 | 9°25'05 | 24° 9 | 20°52 | 29° 2 | 25° 7 | 8°55 | 17° 1 | 15°22 | 9°51 | 12°16 | 20°26 | 21°35 | 27°27 | n.a. | T 4 |
| W 5 | 16 41 51 | 10°22'13 | 6♋ 8 | 20°26 | 0♉11 | 25°49 | 8°54 | 17° 9 | 15°26 | 9°53 | 12°18 | 20°17 | 21°32 | 27°33 | n.a. | W 5 |
| T 6 | 16 45 48 | 11°19'21 | 18°13 | 19°56 | 1°19 | 26°32 | 8°53 | 17°17 | 15°29 | 9°55 | 12°20 | 20°10 | 21°28 | 27°40 | n.a. | T 6 |
| F 7 | 16 49 44 | 12°16'29 | 0♌27 | 19°24 | 2°27 | 27°14 | 8°53 | 17°24 | 15°32 | 9°57 | 12°21 | 20° 6 | 21°25 | 27°47 | n.a. | F 7 |
| S 8 | 16 53 41 | 13°13'38 | 12°52 | 18°50 | 3°36 | 27°56 | 8°53 | 17°32 | 15°35 | 9°59 | 12°23 | 20° 4 | 21°22 | 27°54 | n.a. | S 8 |
| S 9 | 16 57 38 | 14°10'45 | 25°32 | 18°13 | 4°45 | 28°38 | 8°D53 | 17°40 | 15°39 | 10° 1 | 12°24 | 20°D 4 | 21°19 | 28° 0 | n.a. | S 9 |
| M10 | 17 1 34 | 15° 7'53 | 8♍30 | 17°36 | 5°53 | 29°19 | 8°53 | 17°48 | 15°42 | 10° 3 | 12°26 | 20°R 4 | 21°16 | 28° 7 | n.a. | M10 |
| T 11 | 17 5 31 | 16° 5'01 | 21°51 | 16°58 | 7° 2 | 0♉ 1 | 8°53 | 17°56 | 15°45 | 10° 5 | 12°27 | 20° 4 | 21°12 | 28°14 | n.a. | T 11 |
| W12 | 17 9 27 | 17° 2'09 | 5♎37 | 16°19 | 8°11 | 0°43 | 8°54 | 18° 3 | 15°48 | 10° 7 | 12°29 | 20° 3 | 21° 9 | 28°21 | n.a. | W12 |
| T 13 | 17 13 24 | 17°59'17 | 19°49 | 15°42 | 9°20 | 1°25 | 8°54 | 18°11 | 15°52 | 10° 9 | 12°30 | 19°59 | 21° 6 | 28°27 | n.a. | T 13 |
| F 14 | 17 17 20 | 18°56'25 | 4♏26 | 15° 6 | 10°29 | 2° 6 | 8°55 | 18°19 | 15°55 | 10°11 | 12°32 | 19°54 | 21° 3 | 28°34 | n.a. | F 14 |
| S 15 | 17 21 17 | 19°53'33 | 19°24 | 14°32 | 11°38 | 2°48 | 8°56 | 18°27 | 15°59 | 10°14 | 12°33 | 19°46 | 21° 0 | 28°41 | n.a. | S 15 |
| S 16 | 17 25 13 | 20°50'41 | 4♐35 | 14° 0 | 12°48 | 3°29 | 8°58 | 18°35 | 16° 2 | 10°16 | 12°35 | 19°38 | 20°57 | 28°47 | n.a. | S 16 |
| M17 | 17 29 10 | 21°47'50 | 19°48 | 13°32 | 13°57 | 4°10 | 8°59 | 18°43 | 16° 6 | 10°18 | 12°36 | 19°29 | 20°53 | 28°54 | n.a. | M17 |
| T 18 | 17 33 7 | 22°45'00 | 4♑53 | 13° 8 | 15° 6 | 4°52 | 9° 1 | 18°50 | 16° 9 | 10°20 | 12°38 | 19°22 | 20°50 | 29° 1 | n.a. | T 18 |
| W19 | 17 37 3 | 23°42'10 | 19°41 | 12°47 | 16°16 | 5°33 | 9° 2 | 18°58 | 16°12 | 10°22 | 12°39 | 19°17 | 20°47 | 29° 8 | n.a. | W19 |
| T 20 | 17 41 0 | 24°39'20 | 4♒ 4 | 12°32 | 17°26 | 6°14 | 9° 4 | 19° 6 | 16°16 | 10°24 | 12°41 | 19°14 | 20°44 | 29°14 | n.a. | T 20 |
| F 21 | 17 44 56 | 25°36'32 | 18° 0 | 12°21 | 18°35 | 6°55 | 9° 6 | 19°14 | 16°20 | 10°26 | 12°42 | 19°D13 | 20°41 | 29°21 | n.a. | F 21 |
| S 22 | 17 48 53 | 26°33'44 | 1♓27 | 12°D15 | 19°45 | 7°36 | 9° 9 | 19°22 | 16°23 | 10°29 | 12°44 | 19°13 | 20°38 | 29°28 | n.a. | S 22 |
| S 23 | 17 52 49 | 27°30'57 | 14°28 | 12°15 | 20°55 | 8°17 | 9°11 | 19°29 | 16°27 | 10°31 | 12°45 | 19°14 | 20°34 | 29°35 | n.a. | S 23 |
| M24 | 17 56 46 | 28°28'11 | 27° 7 | 12°21 | 22° 5 | 8°58 | 9°14 | 19°37 | 16°30 | 10°33 | 12°46 | 19°R15 | 20°31 | 29°41 | n.a. | M24 |
| T 25 | 18 0 43 | 29°25'26 | 9♈27 | 12°33 | 23°15 | 9°38 | 9°17 | 19°45 | 16°34 | 10°35 | 12°48 | 19°14 | 20°28 | 29°48 | n.a. | T 25 |
| W26 | 18 4 39 | 0♋22'42 | 21°34 | 12°50 | 24°25 | 10°19 | 9°20 | 19°53 | 16°37 | 10°37 | 12°49 | 19°12 | 20°25 | 29°55 | n.a. | W26 |
| T 27 | 18 8 36 | 1°19'59 | 3♉32 | 13°13 | 25°36 | 10°59 | 9°23 | 20° 0 | 16°41 | 10°40 | 12°51 | 19° 8 | 20°22 | 0♊ 1 | n.a. | T 27 |
| F 28 | 18 12 32 | 2°17'17 | 15°25 | 13°43 | 26°46 | 11°40 | 9°26 | 20° 8 | 16°45 | 10°42 | 12°52 | 19° 2 | 20°18 | 0° 8 | n.a. | F 28 |
| S 29 | 18 16 29 | 3°14'37 | 27°16 | 14°18 | 27°56 | 12°20 | 9°30 | 20°16 | 16°48 | 10°44 | 12°54 | 18°54 | 20°15 | 0°15 | n.a. | S 29 |
| S 30 | 18 20 25 | 4♋11'57 | 9♊ 9 | 14♊59 | 29♉ 7 | 13♉ 1 | 9♎33 | 20♊23 | 16♋52 | 10♋46 | 12♊55 | 18♒46 | 20♒12 | 0♊22 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21n39 | 22n19 | 5n 0 | 21n21 | 2s 6 | 7n53 | 2s17 | 8n14 | 0s52 | 2s18 | 1n24 | 22n19 | 0s42 | 23n20 | 0n31 | 23n 4 | 0s17 | 19n25 | 3s 7 | 14s38 | 14s25 | 24n42 | | n.a. |
| S 2 | 21 48 | 25 16 | 4 56 | 21 4 | 2 22 | 8 18 | 2 17 | 8 31 | 0 51 | 2 18 | 1 24 | 22 20 | 0 42 | 23 20 | 0 31 | 23 4 | 0 17 | 19 25 | 3 7 | 14 42 | 14 26 | 24 44 | | n.a. |
| M 3 | 21 58 | 27 8 | 4 40 | 20 47 | 2 38 | 8 43 | 2 16 | 8 47 | 0 51 | 2 18 | 1 24 | 22 21 | 0 42 | 23 19 | 0 31 | 23 4 | 0 17 | 19 26 | 3 7 | 14 47 | 14 27 | 24 45 | | n.a. |
| T 4 | 22 6 | 27 45 | 4 11 | 20 30 | 2 53 | 9 8 | 2 16 | 9 3 | 0 50 | 2 18 | 1 23 | 22 22 | 0 42 | 23 19 | 0 31 | 23 3 | 0 17 | 19 26 | 3 7 | 14 50 | 14 28 | 24 47 | | n.a. |
| W 5 | 22 15 | 27 4 | 3 31 | 20 14 | 3 8 | 9 33 | 2 15 | 9 19 | 0 50 | 2 18 | 1 23 | 22 23 | 0 42 | 23 18 | 0 31 | 23 3 | 0 17 | 19 26 | 3 7 | 14 53 | 14 29 | 24 49 | | n.a. |
| T 6 | 22 23 | 25 6 | 2 41 | 19 58 | 3 22 | 9 58 | 2 14 | 9 35 | 0 49 | 2 18 | 1 23 | 22 23 | 0 42 | 23 18 | 0 31 | 23 3 | 0 17 | 19 26 | 3 7 | 14 55 | 14 30 | 24 50 | | n.a. |
| F 7 | 22 31 | 21 56 | 1 42 | 19 42 | 3 35 | 10 22 | 2 13 | 9 51 | 0 49 | 2 18 | 1 23 | 22 24 | 0 42 | 23 18 | 0 31 | 23 3 | 0 17 | 19 27 | 3 7 | 14 57 | 14 31 | 24 51 | | n.a. |
| S 8 | 22 38 | 17 45 | 0 38 | 19 27 | 3 48 | 10 47 | 2 13 | 10 6 | 0 48 | 2 18 | 1 22 | 22 25 | 0 42 | 23 17 | 0 31 | 23 3 | 0 17 | 19 27 | 3 7 | 14 57 | 14 32 | 24 53 | | n.a. |
| S 9 | 22 45 | 12 42 | 0s29 | 19 13 | 3 59 | 11 11 | 2 11 | 10 22 | 0 48 | 2 18 | 1 22 | 22 26 | 0 42 | 23 17 | 0 31 | 23 3 | 0 17 | 19 27 | 3 6 | 14 57 | 14 33 | 24 54 | | n.a. |
| M10 | 22 52 | 6 59 | 1 37 | 18 59 | 4 9 | 11 35 | 2 10 | 10 37 | 0 47 | 2 19 | 1 22 | 22 27 | 0 42 | 23 16 | 0 31 | 23 3 | 0 17 | 19 27 | 3 6 | 14 57 | 14 34 | 24 56 | | n.a. |
| T 11 | 22 58 | 0 49 | 2 41 | 18 47 | 4 17 | 11 59 | 2 9 | 10 53 | 0 46 | 2 19 | 1 21 | 22 28 | 0 42 | 23 16 | 0 31 | 23 2 | 0 17 | 19 28 | 3 6 | 14 57 | 14 35 | 24 57 | | n.a. |
| W12 | 23 4 | 5s35 | 3 38 | 18 36 | 4 24 | 12 22 | 2 8 | 11 8 | 0 46 | 2 19 | 1 21 | 22 28 | 0 41 | 23 16 | 0 31 | 23 2 | 0 16 | 19 28 | 3 6 | 14 58 | 14 36 | 24 59 | | n.a. |
| T 13 | 23 9 | 11 53 | 4 23 | 18 27 | 4 30 | 12 46 | 2 7 | 11 23 | 0 45 | 2 20 | 1 21 | 22 29 | 0 41 | 23 15 | 0 31 | 23 2 | 0 16 | 19 28 | 3 6 | 14 59 | 14 37 | 25 0 | | n.a. |
| F 14 | 23 14 | 17 44 | 4 53 | 18 19 | 4 34 | 13 9 | 2 5 | 11 38 | 0 45 | 2 21 | 1 20 | 22 30 | 0 41 | 23 15 | 0 31 | 23 2 | 0 16 | 19 28 | 3 6 | 15 1 | 14 38 | 25 2 | | n.a. |
| S 15 | 23 19 | 22 38 | 5 4 | 18 13 | 4 37 | 13 32 | 2 4 | 11 53 | 0 44 | 2 21 | 1 20 | 22 31 | 0 41 | 23 14 | 0 31 | 23 2 | 0 16 | 19 28 | 3 6 | 15 3 | 14 39 | 25 3 | | n.a. |
| S 16 | 23 23 | 26 6 | 4 54 | 18 9 | 4 37 | 13 55 | 2 2 | 12 8 | 0 44 | 2 22 | 1 20 | 22 31 | 0 41 | 23 14 | 0 31 | 23 2 | 0 16 | 19 29 | 3 6 | 15 6 | 14 40 | 25 5 | | n.a. |
| M17 | 23 27 | 27 41 | 4 23 | 18 6 | 4 37 | 14 17 | 2 0 | 12 23 | 0 43 | 2 23 | 1 20 | 22 32 | 0 41 | 23 14 | 0 31 | 23 2 | 0 16 | 19 29 | 3 6 | 15 8 | 14 41 | 25 6 | | n.a. |
| T 18 | 23 30 | 27 11 | 3 34 | 18 5 | 4 34 | 14 39 | 1 59 | 12 37 | 0 42 | 2 24 | 1 19 | 22 33 | 0 41 | 23 13 | 0 31 | 23 1 | 0 16 | 19 29 | 3 6 | 15 11 | 14 42 | 25 7 | | n.a. |
| W19 | 23 33 | 24 44 | 2 31 | 18 7 | 4 31 | 15 1 | 1 57 | 12 52 | 0 42 | 2 25 | 1 19 | 22 34 | 0 41 | 23 13 | 0 31 | 23 1 | 0 16 | 19 29 | 3 6 | 15 12 | 14 43 | 25 9 | | n.a. |
| T 20 | 23 36 | 20 45 | 1 20 | 18 10 | 4 25 | 15 23 | 1 55 | 13 6 | 0 41 | 2 26 | 1 19 | 22 34 | 0 41 | 23 12 | 0 31 | 23 1 | 0 16 | 19 30 | 3 6 | 15 13 | 14 44 | 25 10 | | n.a. |
| F 21 | 23 38 | 15 43 | 0 7 | 18 15 | 4 19 | 15 44 | 1 53 | 13 20 | 0 41 | 2 27 | 1 18 | 22 35 | 0 41 | 23 12 | 0 31 | 23 1 | 0 16 | 19 30 | 3 6 | 15 13 | 14 45 | 25 12 | | n.a. |
| S 22 | 23 40 | 10 4 | 1n 5 | 18 22 | 4 11 | 16 5 | 1 51 | 13 34 | 0 40 | 2 28 | 1 18 | 22 36 | 0 41 | 23 11 | 0 31 | 23 1 | 0 16 | 19 30 | 3 6 | 15 13 | 14 47 | 25 13 | | n.a. |
| S 23 | 23 41 | 4 10 | 2 11 | 18 31 | 4 2 | 16 26 | 1 49 | 13 48 | 0 39 | 2 29 | 1 18 | 22 37 | 0 41 | 23 11 | 0 31 | 23 1 | 0 16 | 19 30 | 3 6 | 15 13 | 14 48 | 25 14 | | n.a. |
| M24 | 23 42 | 1n44 | 3 9 | 18 41 | 3 52 | 16 46 | 1 47 | 14 2 | 0 39 | 2 31 | 1 18 | 22 37 | 0 40 | 23 11 | 0 31 | 23 1 | 0 16 | 19 31 | 3 6 | 15 13 | 14 49 | 25 16 | | n.a. |
| T 25 | 23 42 | 7 24 | 3 57 | 18 53 | 3 41 | 17 6 | 1 45 | 14 16 | 0 38 | 2 32 | 1 17 | 22 38 | 0 40 | 23 10 | 0 31 | 23 0 | 0 16 | 19 31 | 3 6 | 15 13 | 14 50 | 25 17 | | n.a. |
| W26 | 23 42 | 12 42 | 4 33 | 19 7 | 3 30 | 17 26 | 1 42 | 14 29 | 0 37 | 2 34 | 1 17 | 22 39 | 0 40 | 23 10 | 0 31 | 23 0 | 0 16 | 19 31 | 3 6 | 15 14 | 14 51 | 25 18 | | n.a. |
| T 27 | 23 42 | 17 28 | 4 56 | 19 22 | 3 17 | 17 45 | 1 40 | 14 43 | 0 37 | 2 35 | 1 17 | 22 39 | 0 40 | 23 9 | 0 31 | 23 0 | 0 16 | 19 31 | 3 6 | 15 15 | 14 52 | 25 20 | | n.a. |
| F 28 | 23 41 | 21 31 | 5 7 | 19 39 | 3 4 | 18 4 | 1 38 | 14 56 | 0 36 | 2 37 | 1 16 | 22 40 | 0 40 | 23 9 | 0 31 | 23 0 | 0 16 | 19 31 | 3 6 | 15 17 | 14 53 | 25 21 | | n.a. |
| S 29 | 23 40 | 24 42 | 5 4 | 19 56 | 2 51 | 18 22 | 1 35 | 15 9 | 0 35 | 2 38 | 1 16 | 22 41 | 0 40 | 23 8 | 0 31 | 23 0 | 0 16 | 19 32 | 3 6 | 15 19 | 14 54 | 25 22 | | n.a. |
| S 30 | 23n38 | 26n49 | 4n48 | 20n15 | 2s37 | 18n40 | 1s33 | 15n22 | 0s35 | 2s40 | 1n16 | 22n41 | 0s40 | 23n 8 | 0n31 | 23n 0 | 0s16 | 19n32 | 3s 6 | 15s22 | 14s55 | 25n24 | | n.a. |

Julian Day Number = 1700024.5, Delta T = 03h06m03s
Ecliptic obliquity = 23°42'14, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°52'21, Lahiri = - 4°45'21 Julian Calendar 1 June 59 BCE == Greg. Calendar 30 May 059 BCE

The year -58 astronomical counting style corresponds to year 059 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 59 BCE
# geocentric

## JULY 59 BCE (-58) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 18 24 22 | 5♋ 9'18 | 21♊ 5 | 15♊46 | 0♊17 | 13♉41 | 9♎37 | 20♊31 | 16♋55 | 10♋48 | 12♊57 | 18°R37 | 20♒ 9 | 0♊28 | n.a. | M 1 |
| T 2 | 18 28 18 | 6° 6'41 | 3♋ 7 | 16°39 | 1°28 | 14°21 | 9°41 | 20°39 | 16°59 | 10°51 | 12°58 | 18♒30 | 20° 6 | 0°35 | n.a. | T 2 |
| W 3 | 18 32 15 | 7° 4'04 | 15°16 | 17°38 | 2°39 | 15° 1 | 9°45 | 20°46 | 17° 3 | 10°53 | 12°59 | 18°24 | 20° 3 | 0°42 | n.a. | W 3 |
| T 4 | 18 36 12 | 8° 1'28 | 27°32 | 18°42 | 3°49 | 15°41 | 9°50 | 20°54 | 17° 6 | 10°55 | 13° 1 | 18°20 | 19°59 | 0°48 | n.a. | T 4 |
| F 5 | 18 40 8 | 8°58'53 | 9♌59 | 19°51 | 5° 0 | 16°21 | 9°54 | 21° 2 | 17°10 | 10°57 | 13° 2 | 18°18 | 19°56 | 0°55 | n.a. | F 5 |
| S 6 | 18 44 5 | 9°56'19 | 22°36 | 21° 6 | 6°11 | 17° 1 | 9°59 | 21° 9 | 17°14 | 11° 0 | 13° 4 | 18°D18 | 19°53 | 1° 2 | n.a. | S 6 |
| S 7 | 18 48 1 | 10°53'46 | 5♍27 | 22°27 | 7°22 | 17°41 | 10° 4 | 21°17 | 17°18 | 11° 2 | 13° 5 | 18°19 | 19°50 | 1° 9 | n.a. | S 7 |
| M 8 | 18 51 58 | 11°51'14 | 18°34 | 23°52 | 8°33 | 18°20 | 10° 9 | 21°24 | 17°21 | 11° 4 | 13° 6 | 18°21 | 19°47 | 1°15 | n.a. | M 8 |
| T 9 | 18 55 54 | 12°48'43 | 1♎58 | 25°22 | 9°44 | 19° 0 | 10°14 | 21°32 | 17°25 | 11° 6 | 13° 8 | 18°22 | 19°44 | 1°22 | n.a. | T 9 |
| W10 | 18 59 51 | 13°46'12 | 15°41 | 26°56 | 10°56 | 19°39 | 10°19 | 21°39 | 17°29 | 11° 8 | 13° 9 | 18°R22 | 19°40 | 1°29 | n.a. | W10 |
| T 11 | 19 3 47 | 14°43'43 | 29°44 | 28°35 | 12° 7 | 20°19 | 10°24 | 21°47 | 17°32 | 11°11 | 13°10 | 18°21 | 19°37 | 1°36 | n.a. | T 11 |
| F 12 | 19 7 44 | 15°41'14 | 14♏ 7 | 0♋17 | 13°18 | 20°58 | 10°30 | 21°54 | 17°36 | 11°13 | 13°12 | 18°19 | 19°34 | 1°42 | n.a. | F 12 |
| S 13 | 19 11 41 | 16°38'47 | 28°46 | 2° 3 | 14°30 | 21°37 | 10°36 | 22° 1 | 17°40 | 11°15 | 13°13 | 18°16 | 19°31 | 1°49 | n.a. | S 13 |
| S 14 | 19 15 37 | 17°36'20 | 13♐35 | 3°52 | 15°41 | 22°17 | 10°42 | 22° 9 | 17°44 | 11°17 | 13°14 | 18°11 | 19°28 | 1°56 | n.a. | S 14 |
| M15 | 19 19 34 | 18°33'55 | 28°29 | 5°44 | 16°53 | 22°56 | 10°48 | 22°16 | 17°47 | 11°20 | 13°15 | 18° 7 | 19°24 | 2° 2 | n.a. | M15 |
| T 16 | 19 23 30 | 19°31'31 | 13♑18 | 7°39 | 18° 4 | 23°34 | 10°54 | 22°23 | 17°51 | 11°22 | 13°17 | 18° 4 | 19°21 | 2° 9 | n.a. | T 16 |
| W17 | 19 27 27 | 20°29'08 | 27°55 | 9°35 | 19°16 | 24°13 | 11° 0 | 22°31 | 17°55 | 11°24 | 13°18 | 18° 1 | 19°18 | 2°16 | n.a. | W17 |
| T 18 | 19 31 23 | 21°26'47 | 12♒12 | 11°33 | 20°28 | 24°52 | 11° 7 | 22°38 | 17°58 | 11°26 | 13°19 | 18°D 0 | 19°15 | 2°23 | n.a. | T 18 |
| F 19 | 19 35 20 | 22°24'27 | 26° 7 | 13°33 | 21°40 | 25°31 | 11°13 | 22°45 | 18° 2 | 11°28 | 13°20 | 18° 0 | 19°12 | 2°29 | n.a. | F 19 |
| S 20 | 19 39 17 | 23°22'09 | 9♓36 | 15°33 | 22°52 | 26° 9 | 11°20 | 22°52 | 18° 6 | 11°31 | 13°22 | 18° 1 | 19° 9 | 2°36 | n.a. | S 20 |
| S 21 | 19 43 13 | 24°19'52 | 22°41 | 17°34 | 24° 4 | 26°48 | 11°27 | 22°59 | 18° 9 | 11°33 | 13°23 | 18° 3 | 19° 5 | 2°43 | n.a. | S 21 |
| M22 | 19 47 10 | 25°17'37 | 5♈24 | 19°35 | 25°16 | 27°26 | 11°34 | 23° 6 | 18°13 | 11°35 | 13°24 | 18° 4 | 19° 2 | 2°49 | n.a. | M22 |
| T 23 | 19 51 6 | 26°15'24 | 17°47 | 21°36 | 26°28 | 28° 5 | 11°41 | 23°13 | 18°17 | 11°37 | 13°25 | 18° 5 | 18°59 | 2°56 | n.a. | T 23 |
| W24 | 19 55 3 | 27°13'13 | 29°56 | 23°37 | 27°40 | 28°43 | 11°48 | 23°20 | 18°21 | 11°39 | 13°26 | 18°R 5 | 18°56 | 3° 3 | n.a. | W24 |
| T 25 | 19 58 59 | 28°11'04 | 11♉55 | 25°37 | 28°52 | 29°21 | 11°56 | 23°27 | 18°24 | 11°41 | 13°28 | 18° 5 | 18°53 | 3°10 | n.a. | T 25 |
| F 26 | 20 2 56 | 29° 8'56 | 23°49 | 27°37 | 0♋ 5 | 29°59 | 12° 3 | 23°34 | 18°28 | 11°44 | 13°29 | 18° 3 | 18°50 | 3°16 | n.a. | F 26 |
| S 27 | 20 6 52 | 0♌ 6'51 | 5♊41 | 29°36 | 1°17 | 0♊37 | 12°11 | 23°41 | 18°32 | 11°46 | 13°30 | 18° 1 | 18°46 | 3°23 | n.a. | S 27 |
| S 28 | 20 10 49 | 1° 4'47 | 17°36 | 1♌35 | 2°29 | 1°15 | 12°19 | 23°48 | 18°35 | 11°48 | 13°31 | 17°58 | 18°43 | 3°30 | n.a. | S 28 |
| M29 | 20 14 45 | 2° 2'45 | 29°37 | 3°32 | 3°42 | 1°53 | 12°26 | 23°54 | 18°39 | 11°50 | 13°32 | 17°56 | 18°40 | 3°37 | n.a. | M29 |
| T 30 | 20 18 42 | 3° 0'45 | 11♋46 | 5°28 | 4°54 | 2°30 | 12°35 | 24° 1 | 18°43 | 11°52 | 13°33 | 17°54 | 18°37 | 3°43 | n.a. | T 30 |
| W31 | 20 22 39 | 3♌58'47 | 24♋ 6 | 7♌23 | 6♋ 7 | 3♊ 8 | 12♎43 | 24♊ 8 | 18♋46 | 11♋54 | 13♊34 | 17♒52 | 18♒34 | 3♊50 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| M 1 | 23n36 | 27n43 | 4n20 | 20n34 | 2s23 | 18n58 | 1s31 | 15n35 | 0s34 | 2s42 | 1n16 | 22n42 | 0s40 | 23n 7 | 0n31 | 22n59 | 0s16 | 19n32 | 3s 6 | 15s25 | 14s56 | 25n25 | | | n.a. |
| T 2 | 23 34 | 27 20 | 3 40 | 20 54 | 2 8 | 19 15 | 1 28 | 15 48 | 0 33 | 2 44 | 1 15 | 22 42 | 0 40 | 23 7 | 0 31 | 22 59 | 0 16 | 19 32 | 3 6 | 15 27 | 14 57 | 25 26 | | | n.a. |
| W 3 | 23 31 | 25 37 | 2 49 | 21 14 | 1 54 | 19 31 | 1 26 | 16 0 | 0 33 | 2 46 | 1 15 | 22 43 | 0 40 | 23 6 | 0 31 | 22 59 | 0 16 | 19 32 | 3 6 | 15 29 | 14 58 | 25 28 | | | n.a. |
| T 4 | 23 27 | 22 41 | 1 50 | 21 35 | 1 39 | 19 47 | 1 23 | 16 13 | 0 32 | 2 48 | 1 15 | 22 44 | 0 40 | 23 6 | 0 31 | 22 59 | 0 16 | 19 33 | 3 5 | 15 30 | 14 59 | 25 29 | | | n.a. |
| F 5 | 23 24 | 18 40 | 0 45 | 21 55 | 1 24 | 20 3 | 1 20 | 16 25 | 0 31 | 2 50 | 1 14 | 22 44 | 0 40 | 23 6 | 0 31 | 22 59 | 0 16 | 19 33 | 3 5 | 15 31 | 15 0 | 25 30 | | | n.a. |
| S 6 | 23 20 | 13 46 | 0s23 | 22 15 | 1 9 | 20 18 | 1 18 | 16 37 | 0 30 | 2 52 | 1 14 | 22 45 | 0 40 | 23 5 | 0 31 | 22 58 | 0 16 | 19 33 | 3 5 | 15 31 | 15 1 | 25 32 | | | n.a. |
| S 7 | 23 15 | 8 11 | 1 32 | 22 34 | 0 55 | 20 33 | 1 15 | 16 49 | 0 30 | 2 54 | 1 14 | 22 45 | 0 40 | 23 5 | 0 31 | 22 58 | 0 16 | 19 33 | 3 5 | 15 30 | 15 2 | 25 33 | | | n.a. |
| M 8 | 23 10 | 2 10 | 2 37 | 22 53 | 0 41 | 20 47 | 1 12 | 17 1 | 0 29 | 2 56 | 1 14 | 22 46 | 0 39 | 23 4 | 0 31 | 22 58 | 0 16 | 19 33 | 3 5 | 15 30 | 15 3 | 25 34 | | | n.a. |
| T 9 | 23 5 | 4s 4 | 3 35 | 23 10 | 0 27 | 21 1 | 1 10 | 17 12 | 0 28 | 2 58 | 1 13 | 22 46 | 0 39 | 23 4 | 0 31 | 22 58 | 0 16 | 19 34 | 3 5 | 15 29 | 15 4 | 25 35 | | | n.a. |
| W10 | 22 59 | 10 16 | 4 23 | 23 26 | 0 14 | 21 14 | 1 7 | 17 24 | 0 28 | 3 1 | 1 13 | 22 47 | 0 39 | 23 3 | 0 31 | 22 58 | 0 16 | 19 34 | 3 5 | 15 29 | 15 5 | 25 37 | | | n.a. |
| T 11 | 22 53 | 16 6 | 4 56 | 23 41 | 0 1 | 21 26 | 1 4 | 17 35 | 0 27 | 3 3 | 1 13 | 22 48 | 0 39 | 23 3 | 0 31 | 22 58 | 0 16 | 19 34 | 3 5 | 15 30 | 15 6 | 25 38 | | | n.a. |
| F 12 | 22 46 | 21 11 | 5 11 | 23 54 | 0n12 | 21 38 | 1 1 | 17 47 | 0 26 | 3 6 | 1 12 | 22 48 | 0 39 | 23 2 | 0 31 | 22 57 | 0 16 | 19 34 | 3 5 | 15 30 | 15 7 | 25 39 | | | n.a. |
| S 13 | 22 39 | 25 5 | 5 7 | 24 5 | 0 24 | 21 50 | 0 58 | 17 58 | 0 25 | 3 8 | 1 12 | 22 49 | 0 39 | 23 2 | 0 31 | 22 57 | 0 16 | 19 34 | 3 5 | 15 31 | 15 8 | 25 40 | | | n.a. |
| S 14 | 22 32 | 27 21 | 4 42 | 24 13 | 0 35 | 22 0 | 0 55 | 18 9 | 0 25 | 3 11 | 1 12 | 22 49 | 0 39 | 23 1 | 0 31 | 22 57 | 0 16 | 19 35 | 3 5 | 15 33 | 15 9 | 25 42 | | | n.a. |
| M15 | 22 24 | 27 40 | 3 58 | 24 20 | 0 45 | 22 11 | 0 52 | 18 19 | 0 24 | 3 13 | 1 12 | 22 50 | 0 39 | 23 1 | 0 31 | 22 57 | 0 16 | 19 35 | 3 5 | 15 34 | 15 10 | 25 43 | | | n.a. |
| T 16 | 22 16 | 26 0 | 2 59 | 24 23 | 0 55 | 22 20 | 0 50 | 18 30 | 0 23 | 3 16 | 1 11 | 22 50 | 0 39 | 23 0 | 0 31 | 22 57 | 0 16 | 19 35 | 3 5 | 15 35 | 15 11 | 25 44 | | | n.a. |
| W17 | 22 7 | 22 34 | 1 48 | 24 24 | 1 3 | 22 29 | 0 47 | 18 41 | 0 22 | 3 19 | 1 11 | 22 50 | 0 39 | 23 0 | 0 31 | 22 57 | 0 16 | 19 35 | 3 5 | 15 36 | 15 12 | 25 45 | | | n.a. |
| T 18 | 21 58 | 17 50 | 0 32 | 24 23 | 1 11 | 22 38 | 0 44 | 18 51 | 0 22 | 3 21 | 1 11 | 22 51 | 0 39 | 22 59 | 0 31 | 22 56 | 0 16 | 19 35 | 3 5 | 15 36 | 15 13 | 25 46 | | | n.a. |
| F 19 | 21 49 | 12 15 | 0n44 | 24 19 | 1 19 | 22 46 | 0 41 | 19 1 | 0 21 | 3 24 | 1 11 | 22 51 | 0 39 | 22 59 | 0 31 | 22 56 | 0 16 | 19 35 | 3 5 | 15 36 | 15 14 | 25 48 | | | n.a. |
| S 20 | 21 39 | 6 16 | 1 56 | 24 12 | 1 25 | 22 53 | 0 38 | 19 11 | 0 20 | 3 27 | 1 10 | 22 52 | 0 39 | 22 58 | 0 31 | 22 56 | 0 16 | 19 35 | 3 5 | 15 36 | 15 15 | 25 49 | | | n.a. |
| S 21 | 21 29 | 0 12 | 2 59 | 24 2 | 1 30 | 22 59 | 0 35 | 19 21 | 0 19 | 3 30 | 1 10 | 22 52 | 0 39 | 22 58 | 0 31 | 22 56 | 0 16 | 19 36 | 3 5 | 15 35 | 15 16 | 25 50 | | | n.a. |
| M22 | 21 19 | 5n42 | 3 52 | 23 50 | 1 35 | 23 5 | 0 32 | 19 30 | 0 18 | 3 33 | 1 10 | 22 53 | 0 39 | 22 57 | 0 31 | 22 56 | 0 16 | 19 36 | 3 5 | 15 35 | 15 17 | 25 51 | | | n.a. |
| T 23 | 21 8 | 11 14 | 4 32 | 23 35 | 1 39 | 23 10 | 0 29 | 19 40 | 0 18 | 3 36 | 1 10 | 22 53 | 0 39 | 22 57 | 0 31 | 22 55 | 0 16 | 19 36 | 3 5 | 15 35 | 15 18 | 25 52 | | | n.a. |
| W24 | 20 57 | 16 14 | 4 59 | 23 17 | 1 42 | 23 15 | 0 26 | 19 49 | 0 17 | 3 39 | 1 9 | 22 54 | 0 39 | 22 56 | 0 31 | 22 55 | 0 16 | 19 36 | 3 5 | 15 35 | 15 19 | 25 53 | | | n.a. |
| T 25 | 20 45 | 20 32 | 5 13 | 22 58 | 1 44 | 23 19 | 0 23 | 19 59 | 0 16 | 3 42 | 1 9 | 22 54 | 0 39 | 22 56 | 0 31 | 22 55 | 0 16 | 19 36 | 3 5 | 15 35 | 15 20 | 25 55 | | | n.a. |
| F 26 | 20 33 | 23 59 | 5 13 | 22 36 | 1 46 | 23 22 | 0 20 | 20 8 | 0 15 | 3 46 | 1 9 | 22 54 | 0 38 | 22 55 | 0 31 | 22 55 | 0 16 | 19 36 | 3 5 | 15 35 | 15 21 | 25 56 | | | n.a. |
| S 27 | 20 21 | 26 25 | 5 0 | 22 12 | 1 47 | 23 25 | 0 17 | 20 16 | 0 14 | 3 49 | 1 9 | 22 55 | 0 38 | 22 55 | 0 31 | 22 55 | 0 16 | 19 37 | 3 5 | 15 36 | 15 22 | 25 57 | | | n.a. |
| S 28 | 20 8 | 27 40 | 4 34 | 21 46 | 1 47 | 23 26 | 0 14 | 20 25 | 0 13 | 3 52 | 1 8 | 22 55 | 0 38 | 22 54 | 0 31 | 22 55 | 0 16 | 19 37 | 3 5 | 15 37 | 15 23 | 25 58 | | | n.a. |
| M29 | 19 55 | 27 38 | 3 56 | 21 18 | 1 47 | 23 28 | 0 11 | 20 34 | 0 13 | 3 55 | 1 8 | 22 55 | 0 38 | 22 54 | 0 31 | 22 54 | 0 16 | 19 37 | 3 5 | 15 38 | 15 24 | 25 59 | | | n.a. |
| T 30 | 19 42 | 26 16 | 3 6 | 20 49 | 1 46 | 23 28 | 0 9 | 20 42 | 0 12 | 3 59 | 1 8 | 22 56 | 0 38 | 22 53 | 0 31 | 22 54 | 0 16 | 19 37 | 3 5 | 15 38 | 15 25 | 26 0 | | | n.a. |
| W31 | 19n28 | 23n37 | 2n 8 | 20n18 | 1n44 | 23n28 | 0s 6 | 20n50 | 0s11 | 4s 2 | 1n 8 | 22n56 | 0s38 | 22n53 | 0n31 | 22n54 | 0s16 | 19n37 | 3s 5 | 15s39 | 15s26 | 26n 1 | | | n.a. |

Julian Day Number = 1700054.5, Delta T = 03h06m02s
Ecliptic obliquity = 23°42'14, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°52'17, Lahiri = - 4°45'17 Julian Calendar 1 July 59 BCE == Greg. Calendar 29 June 059 BCE

The year -58 astronomical counting style corresponds to year 059 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 59 BCE
# geocentric

## AUGUST 59 BCE (-58) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 26 35 | 4♌56'50 | 6♌37 | 9♌17 | 7♋20 | 3♊45 | 12♎51 | 24♊14 | 18♋50 | 11♋56 | 13♊35 | 17°R51 | 18♒30 | 3♊57 | n.a. | T 1 |
| F 2 | 20 30 32 | 5°54'55 | 19°22 | 11°10 | 8°33 | 4°22 | 12°59 | 24°21 | 18°53 | 11°58 | 13°36 | 17°D51 | 18°27 | 4° 3 | n.a. | F 2 |
| S 3 | 20 34 28 | 6°53'02 | 2♍20 | 13° 1 | 9°45 | 5° 0 | 13° 8 | 24°27 | 18°57 | 12° 0 | 13°37 | 17♒51 | 18°24 | 4°10 | n.a. | S 3 |
| S 4 | 20 38 25 | 7°51'10 | 15°31 | 14°52 | 10°58 | 5°37 | 13°17 | 24°34 | 19° 1 | 12° 2 | 13°38 | 17°52 | 18°21 | 4°17 | n.a. | S 4 |
| M 5 | 20 42 21 | 8°49'21 | 28°55 | 16°41 | 12°11 | 6°14 | 13°25 | 24°40 | 19° 4 | 12° 5 | 13°39 | 17°53 | 18°18 | 4°24 | n.a. | M 5 |
| T 6 | 20 46 18 | 9°47'32 | 12♎33 | 18°29 | 13°24 | 6°51 | 13°34 | 24°47 | 19° 8 | 12° 7 | 13°40 | 17°53 | 18°15 | 4°30 | n.a. | T 6 |
| W 7 | 20 50 14 | 10°45'45 | 26°23 | 20°15 | 14°37 | 7°27 | 13°43 | 24°53 | 19°11 | 12° 9 | 13°41 | 17°54 | 18°11 | 4°37 | n.a. | W 7 |
| T 8 | 20 54 11 | 11°44'00 | 10♏25 | 22° 1 | 15°50 | 8° 4 | 13°52 | 24°59 | 19°15 | 12°11 | 13°42 | 17°R54 | 18° 8 | 4°44 | n.a. | T 8 |
| F 9 | 20 58 8 | 12°42'17 | 24°38 | 23°45 | 17° 4 | 8°40 | 14° 2 | 25° 5 | 19°18 | 12°13 | 13°43 | 17°54 | 18° 5 | 4°50 | n.a. | F 9 |
| S 10 | 21 2 4 | 13°40'35 | 8♐59 | 25°28 | 18°17 | 9°17 | 14°11 | 25°11 | 19°22 | 12°15 | 13°44 | 17°54 | 18° 2 | 4°57 | n.a. | S 10 |
| S 11 | 21 6 1 | 14°38'55 | 23°25 | 27°10 | 19°30 | 9°53 | 14°20 | 25°17 | 19°25 | 12°16 | 13°44 | 17°53 | 17°59 | 5° 4 | n.a. | S 11 |
| M12 | 21 9 57 | 15°37'16 | 7♑51 | 28°51 | 20°43 | 10°29 | 14°30 | 25°23 | 19°29 | 12°18 | 13°45 | 17°53 | 17°56 | 5°11 | n.a. | M12 |
| T 13 | 21 13 54 | 16°35'40 | 22°14 | 0♒31 | 21°57 | 11° 5 | 14°40 | 25°29 | 19°32 | 12°20 | 13°46 | 17°53 | 17°52 | 5°17 | n.a. | T 13 |
| W14 | 21 17 50 | 17°34'05 | 6♒27 | 2° 9 | 23°10 | 11°41 | 14°49 | 25°35 | 19°35 | 12°22 | 13°47 | 17°D53 | 17°49 | 5°24 | n.a. | W14 |
| T 15 | 21 21 47 | 18°32'31 | 20°27 | 3°46 | 24°24 | 12°17 | 14°59 | 25°41 | 19°39 | 12°24 | 13°48 | 17°R53 | 17°46 | 5°31 | n.a. | T 15 |
| F 16 | 21 25 43 | 19°31'00 | 4♓10 | 5°23 | 25°37 | 12°53 | 15° 9 | 25°46 | 19°42 | 12°26 | 13°48 | 17°53 | 17°43 | 5°37 | n.a. | F 16 |
| S 17 | 21 29 40 | 20°29'31 | 17°33 | 6°58 | 26°51 | 13°29 | 15°19 | 25°52 | 19°45 | 12°28 | 13°49 | 17°53 | 17°40 | 5°44 | n.a. | S 17 |
| S 18 | 21 33 37 | 21°28'04 | 0♈36 | 8°32 | 28° 5 | 14° 4 | 15°29 | 25°58 | 19°49 | 12°30 | 13°50 | 17°52 | 17°36 | 5°51 | n.a. | S 18 |
| M19 | 21 37 33 | 22°26'39 | 13°19 | 10° 5 | 29°18 | 14°39 | 15°39 | 26° 3 | 19°52 | 12°31 | 13°50 | 17°52 | 17°33 | 5°58 | n.a. | M19 |
| T 20 | 21 41 30 | 23°25'17 | 25°44 | 11°37 | 0♌32 | 15°15 | 15°50 | 26° 8 | 19°55 | 12°33 | 13°51 | 17°51 | 17°30 | 6° 4 | n.a. | T 20 |
| W21 | 21 45 26 | 24°23'56 | 7♉55 | 13° 8 | 1°46 | 15°50 | 16° 0 | 26°14 | 19°58 | 12°35 | 13°52 | 17°51 | 17°27 | 6°11 | n.a. | W21 |
| T 22 | 21 49 23 | 25°22'38 | 19°55 | 14°38 | 3° 0 | 16°25 | 16°11 | 26°19 | 20° 2 | 12°37 | 13°52 | 17°D50 | 17°24 | 6°18 | n.a. | T 22 |
| F 23 | 21 53 19 | 26°21'23 | 1♊49 | 16° 7 | 4°14 | 16°59 | 16°21 | 26°24 | 20° 5 | 12°39 | 13°53 | 17°50 | 17°21 | 6°24 | n.a. | F 23 |
| S 24 | 21 57 16 | 27°20'10 | 13°42 | 17°35 | 5°28 | 17°34 | 16°32 | 26°29 | 20° 8 | 12°40 | 13°53 | 17°51 | 17°17 | 6°31 | n.a. | S 24 |
| S 25 | 22 1 12 | 28°18'59 | 25°38 | 19° 2 | 6°42 | 18° 9 | 16°43 | 26°34 | 20°11 | 12°42 | 13°54 | 17°52 | 17°14 | 6°38 | n.a. | S 25 |
| M26 | 22 5 9 | 29°17'51 | 7♋41 | 20°27 | 7°56 | 18°43 | 16°54 | 26°39 | 20°14 | 12°44 | 13°55 | 17°53 | 17°11 | 6°45 | n.a. | M26 |
| T 27 | 22 9 6 | 0♍16'44 | 19°55 | 21°52 | 9°10 | 19°17 | 17° 4 | 26°44 | 20°17 | 12°45 | 13°55 | 17°54 | 17° 8 | 6°51 | n.a. | T 27 |
| W28 | 22 13 2 | 1°15'40 | 2♌25 | 23°15 | 10°24 | 19°51 | 17°15 | 26°49 | 20°20 | 12°47 | 13°56 | 17°55 | 17° 5 | 6°58 | n.a. | W28 |
| T 29 | 22 16 59 | 2°14'39 | 15°10 | 24°38 | 11°38 | 20°25 | 17°27 | 26°54 | 20°23 | 12°48 | 13°56 | 17°R55 | 17° 2 | 7° 5 | n.a. | T 29 |
| F 30 | 22 20 55 | 3°13'39 | 28°14 | 25°59 | 12°53 | 20°59 | 17°38 | 26°58 | 20°26 | 12°50 | 13°56 | 17°55 | 16°58 | 7°11 | n.a. | F 30 |
| S 31 | 22 24 52 | 4♍12'42 | 11♍35 | 27♍19 | 14♌ 7 | 21♊33 | 17♎49 | 27♊ 3 | 20♋29 | 12♋52 | 13♊57 | 17♒54 | 16♒55 | 7♊18 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | | ☊ | | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | | decl | | decl | | decl | lat |
| T 1 | 19n14 | 19n49 | 1n 2 | 19n46 | 1n42 | 23n27 | 0s 3 | 20n58 | 0s10 | 4s 6 | 1n 7 | 22n56 | 0s38 | 22n52 | 0n31 | 22n54 | 0s16 | 19n37 | 3s 5 | 15s39 | | 15s27 | | 26n 2 | | | n.a. |
| F 2 | 19 0 | 15 3 | 0s 8 | 19 13 | 1 40 | 23 26 | 0n 0 | 21 6 | 0 9 | 4 9 | 1 7 | 22 57 | 0 38 | 22 52 | 0 31 | 22 54 | 0 16 | 19 37 | 3 5 | 15 39 | | 15 28 | | 26 3 | | | n.a. |
| S 3 | 18 45 | 9 32 | 1 19 | 18 38 | 1 37 | 23 23 | 0 3 | 21 14 | 0 8 | 4 13 | 1 7 | 22 57 | 0 38 | 22 51 | 0 31 | 22 53 | 0 16 | 19 37 | 3 5 | 15 39 | | 15 29 | | 26 4 | | | n.a. |
| S 4 | 18 30 | 3 31 | 2 27 | 18 2 | 1 33 | 23 20 | 0 6 | 21 21 | 0 7 | 4 16 | 1 7 | 22 57 | 0 38 | 22 51 | 0 31 | 22 53 | 0 16 | 19 38 | 3 5 | 15 39 | | 15 30 | | 26 6 | | | n.a. |
| M 5 | 18 15 | 2s45 | 3 28 | 17 26 | 1 29 | 23 17 | 0 9 | 21 29 | 0 6 | 4 20 | 1 7 | 22 58 | 0 38 | 22 50 | 0 31 | 22 53 | 0 16 | 19 38 | 3 5 | 15 39 | | 15 31 | | 26 7 | | | n.a. |
| T 6 | 18 0 | 8 58 | 4 19 | 16 48 | 1 25 | 23 12 | 0 11 | 21 36 | 0 6 | 4 24 | 1 6 | 22 58 | 0 38 | 22 50 | 0 31 | 22 53 | 0 16 | 19 38 | 3 5 | 15 38 | | 15 32 | | 26 8 | | | n.a. |
| W 7 | 17 44 | 14 51 | 4 55 | 16 10 | 1 20 | 23 7 | 0 14 | 21 43 | 0 5 | 4 28 | 1 6 | 22 58 | 0 38 | 22 49 | 0 31 | 22 53 | 0 16 | 19 38 | 3 5 | 15 38 | | 15 33 | | 26 9 | | | n.a. |
| T 8 | 17 27 | 20 4 | 5 14 | 15 31 | 1 15 | 23 2 | 0 17 | 21 50 | 0 4 | 4 31 | 1 6 | 22 59 | 0 38 | 22 49 | 0 31 | 22 53 | 0 16 | 19 38 | 3 5 | 15 38 | | 15 34 | | 26 10 | | | n.a. |
| F 9 | 17 11 | 24 13 | 5 15 | 14 51 | 1 10 | 22 55 | 0 19 | 21 57 | 0 3 | 4 35 | 1 6 | 22 59 | 0 38 | 22 48 | 0 31 | 22 52 | 0 16 | 19 38 | 3 5 | 15 38 | | 15 35 | | 26 11 | | | n.a. |
| S 10 | 16 54 | 26 54 | 4 56 | 14 11 | 1 5 | 22 48 | 0 22 | 22 3 | 0 2 | 4 39 | 1 5 | 22 59 | 0 38 | 22 48 | 0 31 | 22 52 | 0 16 | 19 38 | 3 5 | 15 38 | | 15 36 | | 26 12 | | | n.a. |
| S 11 | 16 37 | 27 50 | 4 18 | 13 31 | 0 59 | 22 41 | 0 25 | 22 10 | 0 1 | 4 43 | 1 5 | 22 59 | 0 38 | 22 47 | 0 31 | 22 52 | 0 16 | 19 38 | 3 5 | 15 38 | | 15 37 | | 26 13 | | | n.a. |
| M12 | 16 20 | 26 52 | 3 24 | 12 50 | 0 53 | 22 32 | 0 27 | 22 16 | 0n 0 | 4 47 | 1 5 | 23 0 | 0 38 | 22 47 | 0 31 | 22 52 | 0 16 | 19 38 | 3 5 | 15 38 | | 15 38 | | 26 14 | | | n.a. |
| T 13 | 16 2 | 24 6 | 2 17 | 12 8 | 0 47 | 22 23 | 0 30 | 22 22 | 0 1 | 4 51 | 1 5 | 23 0 | 0 38 | 22 46 | 0 31 | 22 52 | 0 16 | 19 38 | 3 5 | 15 38 | | 15 39 | | 26 15 | | | n.a. |
| W14 | 15 44 | 19 53 | 1 3 | 11 27 | 0 40 | 22 13 | 0 32 | 22 28 | 0 2 | 4 55 | 1 5 | 23 0 | 0 38 | 22 46 | 0 31 | 22 52 | 0 16 | 19 39 | 3 5 | 15 38 | | 15 40 | | 26 16 | | | n.a. |
| T 15 | 15 26 | 14 36 | 0n14 | 10 45 | 0 34 | 22 3 | 0 35 | 22 34 | 0 3 | 4 59 | 1 4 | 23 0 | 0 38 | 22 46 | 0 31 | 22 51 | 0 16 | 19 39 | 3 5 | 15 38 | | 15 41 | | 26 17 | | | n.a. |
| F 16 | 15 8 | 8 42 | 1 29 | 10 3 | 0 27 | 21 52 | 0 37 | 22 40 | 0 4 | 5 3 | 1 4 | 23 1 | 0 38 | 22 45 | 0 31 | 22 51 | 0 16 | 19 39 | 3 5 | 15 39 | | 15 42 | | 26 18 | | | n.a. |
| S 17 | 14 49 | 2 34 | 2 37 | 9 21 | 0 20 | 21 40 | 0 40 | 22 45 | 0 5 | 5 7 | 1 4 | 23 1 | 0 38 | 22 45 | 0 31 | 22 51 | 0 16 | 19 39 | 3 5 | 15 39 | | 15 43 | | 26 19 | | | n.a. |
| S 18 | 14 30 | 3n31 | 3 35 | 8 39 | 0 13 | 21 28 | 0 42 | 22 50 | 0 6 | 5 11 | 1 4 | 23 1 | 0 37 | 22 44 | 0 31 | 22 51 | 0 16 | 19 39 | 3 5 | 15 39 | | 15 44 | | 26 20 | | | n.a. |
| M19 | 14 11 | 9 19 | 4 21 | 7 57 | 0 5 | 21 15 | 0 44 | 22 55 | 0 7 | 5 15 | 1 4 | 23 1 | 0 37 | 22 44 | 0 31 | 22 51 | 0 16 | 19 39 | 3 5 | 15 39 | | 15 45 | | 26 21 | | | n.a. |
| T 20 | 13 52 | 14 36 | 4 53 | 7 15 | 0s 2 | 21 1 | 0 47 | 23 0 | 0 8 | 5 19 | 1 3 | 23 1 | 0 37 | 22 43 | 0 31 | 22 51 | 0 16 | 19 39 | 3 5 | 15 39 | | 15 46 | | 26 22 | | | n.a. |
| W21 | 13 32 | 19 12 | 5 12 | 6 33 | 0 9 | 20 47 | 0 49 | 23 5 | 0 9 | 5 24 | 1 3 | 23 2 | 0 37 | 22 43 | 0 31 | 22 50 | 0 16 | 19 39 | 3 5 | 15 39 | | 15 47 | | 26 23 | | | n.a. |
| T 22 | 13 12 | 22 59 | 5 16 | 5 51 | 0 17 | 20 32 | 0 51 | 23 10 | 0 10 | 5 28 | 1 3 | 23 2 | 0 37 | 22 42 | 0 31 | 22 50 | 0 16 | 19 39 | 3 5 | 15 39 | | 15 47 | | 26 23 | | | n.a. |
| F 23 | 12 52 | 25 46 | 5 7 | 5 10 | 0 24 | 20 16 | 0 53 | 23 14 | 0 11 | 5 32 | 1 3 | 23 2 | 0 37 | 22 42 | 0 31 | 22 50 | 0 16 | 19 39 | 3 5 | 15 39 | | 15 48 | | 26 24 | | | n.a. |
| S 24 | 12 32 | 27 25 | 4 45 | 4 28 | 0 32 | 20 0 | 0 55 | 23 19 | 0 12 | 5 36 | 1 3 | 23 2 | 0 37 | 22 41 | 0 31 | 22 50 | 0 16 | 19 39 | 3 5 | 15 39 | | 15 49 | | 26 25 | | | n.a. |
| S 25 | 12 11 | 27 48 | 4 11 | 3 47 | 0 40 | 19 43 | 0 57 | 23 23 | 0 13 | 5 41 | 1 2 | 23 2 | 0 37 | 22 41 | 0 31 | 22 50 | 0 16 | 19 39 | 3 5 | 15 39 | | 15 50 | | 26 26 | | | n.a. |
| M26 | 11 51 | 26 53 | 3 25 | 3 6 | 0 48 | 19 26 | 0 59 | 23 27 | 0 14 | 5 45 | 1 2 | 23 3 | 0 37 | 22 41 | 0 31 | 22 50 | 0 16 | 19 39 | 3 5 | 15 39 | | 15 51 | | 26 27 | | | n.a. |
| T 27 | 11 30 | 24 39 | 2 29 | 2 25 | 0 55 | 19 8 | 1 1 | 23 31 | 0 15 | 5 49 | 1 2 | 23 3 | 0 37 | 22 40 | 0 31 | 22 49 | 0 16 | 19 39 | 3 5 | 15 38 | | 15 52 | | 26 28 | | | n.a. |
| W28 | 11 9 | 21 13 | 1 25 | 1 44 | 1 3 | 18 50 | 1 3 | 23 35 | 0 16 | 5 54 | 1 2 | 23 3 | 0 37 | 22 40 | 0 31 | 22 49 | 0 16 | 19 39 | 3 5 | 15 38 | | 15 53 | | 26 29 | | | n.a. |
| T 29 | 10 47 | 16 42 | 0 15 | 1 4 | 1 11 | 18 31 | 1 4 | 23 38 | 0 17 | 5 58 | 1 2 | 23 3 | 0 37 | 22 39 | 0 31 | 22 49 | 0 16 | 19 39 | 3 5 | 15 38 | | 15 54 | | 26 30 | | | n.a. |
| F 30 | 10 26 | 11 20 | 0s57 | 0 25 | 1 19 | 18 11 | 1 6 | 23 42 | 0 18 | 6 3 | 1 2 | 23 3 | 0 37 | 22 39 | 0 31 | 22 49 | 0 16 | 19 39 | 3 5 | 15 38 | | 15 55 | | 26 31 | | | n.a. |
| S 31 | 10n 4 | 5n21 | 2s 7 | 0s14 | 1s26 | 17n51 | 1n 8 | 23n45 | 0n19 | 6s 7 | 1n 1 | 23n 3 | 0s37 | 22n38 | 0n31 | 22n49 | 0s16 | 19n39 | 3s 5 | 15s38 | | 15s56 | | 26n31 | | | n.a. |

Julian Day Number = 1700085.5, Delta T = 03h06m01s
Ecliptic obliquity = 23°42'14, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°52'13, Lahiri = - 4°45'12 Julian Calendar 1 Aug. 59 BCE == Greg. Calendar 30 July 059 BCE

The year -58 astronomical counting style corresponds to year 059 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 59 BCE
# geocentric

## SEPTEMBER 59 BCE (-58) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 22 28 48 | 5♍11'46 | 25♍12 | 28♍37 | 15♌21 | 22♊ 6 | 18♎ 0 | 27♊ 7 | 20♋32 | 12♋53 | 13♊57 | 17°R52 | 16♒52 | 7♊25 | n.a. | S 1 |
| M 2 | 22 32 45 | 6°10'53 | 9♎ 3 | 29°55 | 16°36 | 22°40 | 18°12 | 27°12 | 20°35 | 12°55 | 13°58 | 17♒50 | 16°49 | 7°32 | n.a. | M 2 |
| T 3 | 22 36 41 | 7°10'02 | 23° 5 | 1♎10 | 17°50 | 23°13 | 18°23 | 27°16 | 20°38 | 12°56 | 13°58 | 17°47 | 16°46 | 7°38 | n.a. | T 3 |
| W 4 | 22 40 38 | 8° 9'12 | 7♏14 | 2°25 | 19° 5 | 23°46 | 18°35 | 27°20 | 20°41 | 12°58 | 13°58 | 17°45 | 16°42 | 7°45 | n.a. | W 4 |
| T 5 | 22 44 34 | 9° 8'25 | 21°26 | 3°38 | 20°19 | 24°19 | 18°46 | 27°24 | 20°43 | 12°59 | 13°59 | 17°43 | 16°39 | 7°52 | n.a. | T 5 |
| F 6 | 22 48 31 | 10° 7'39 | 5♐40 | 4°49 | 21°34 | 24°52 | 18°58 | 27°28 | 20°46 | 13° 0 | 13°59 | 17°D42 | 16°36 | 7°58 | n.a. | F 6 |
| S 7 | 22 52 28 | 11° 6'56 | 19°51 | 5°58 | 22°48 | 25°24 | 19°10 | 27°32 | 20°49 | 13° 2 | 13°59 | 17°42 | 16°33 | 8° 5 | n.a. | S 7 |
| S 8 | 22 56 24 | 12° 6'14 | 3♑59 | 7° 5 | 24° 3 | 25°57 | 19°22 | 27°36 | 20°52 | 13° 3 | 13°59 | 17°43 | 16°30 | 8°12 | n.a. | S 8 |
| M 9 | 23 0 21 | 13° 5'34 | 18° 1 | 8°10 | 25°17 | 26°29 | 19°34 | 27°40 | 20°54 | 13° 4 | 14° 0 | 17°45 | 16°27 | 8°19 | n.a. | M 9 |
| T 10 | 23 4 17 | 14° 4'56 | 1♒55 | 9°13 | 26°32 | 27° 1 | 19°46 | 27°43 | 20°57 | 13° 6 | 14° 0 | 17°46 | 16°23 | 8°25 | n.a. | T 10 |
| W11 | 23 8 14 | 15° 4'19 | 15°41 | 10°14 | 27°47 | 27°33 | 19°58 | 27°47 | 20°59 | 13° 7 | 14° 0 | 17°R47 | 16°20 | 8°32 | n.a. | W11 |
| T 12 | 23 12 10 | 16° 3'45 | 29°16 | 11°11 | 29° 2 | 28° 4 | 20°10 | 27°50 | 21° 2 | 13° 8 | 14° 0 | 17°46 | 16°17 | 8°39 | n.a. | T 12 |
| F 13 | 23 16 7 | 17° 3'13 | 12♓38 | 12° 6 | 0♍16 | 28°36 | 20°22 | 27°54 | 21° 4 | 13° 9 | 14° 0 | 17°44 | 16°14 | 8°45 | n.a. | F 13 |
| S 14 | 23 20 3 | 18° 2'42 | 25°45 | 12°58 | 1°31 | 29° 7 | 20°34 | 27°57 | 21° 7 | 13°11 | 14° 0 | 17°41 | 16°11 | 8°52 | n.a. | S 14 |
| S 15 | 23 24 0 | 19° 2'14 | 8♈38 | 13°46 | 2°46 | 29°38 | 20°46 | 28° 0 | 21° 9 | 13°12 | 14° 0 | 17°36 | 16° 7 | 8°59 | n.a. | S 15 |
| M16 | 23 27 57 | 20° 1'48 | 21°15 | 14°30 | 4° 1 | 0♋ 9 | 20°58 | 28° 3 | 21°11 | 13°13 | 14° 0 | 17°30 | 16° 4 | 9° 6 | n.a. | M16 |
| T 17 | 23 31 53 | 21° 1'25 | 3♉38 | 15°10 | 5°16 | 0°40 | 21°11 | 28° 6 | 21°14 | 13°14 | 14°R 0 | 17°25 | 16° 1 | 9°12 | n.a. | T 17 |
| W18 | 23 35 50 | 22° 1'04 | 15°47 | 15°45 | 6°31 | 1°10 | 21°23 | 28° 9 | 21°16 | 13°15 | 14° 0 | 17°19 | 15°58 | 9°19 | n.a. | W18 |
| T 19 | 23 39 46 | 23° 0'45 | 27°47 | 16°16 | 7°46 | 1°41 | 21°36 | 28°12 | 21°18 | 13°16 | 14° 0 | 17°15 | 15°55 | 9°26 | n.a. | T 19 |
| F 20 | 23 43 43 | 24° 0'28 | 9♊40 | 16°40 | 9° 1 | 2°11 | 21°48 | 28°14 | 21°20 | 13°17 | 14° 0 | 17°12 | 15°52 | 9°32 | n.a. | F 20 |
| S 21 | 23 47 39 | 25° 0'14 | 21°32 | 16°59 | 10°16 | 2°41 | 22° 1 | 28°17 | 21°23 | 13°18 | 14° 0 | 17°D11 | 15°48 | 9°39 | n.a. | S 21 |
| S 22 | 23 51 36 | 26° 0'02 | 3♋26 | 17°10 | 11°31 | 3°11 | 22°13 | 28°19 | 21°25 | 13°19 | 14° 0 | 17°11 | 15°45 | 9°46 | n.a. | S 22 |
| M23 | 23 55 32 | 26°59'53 | 15°28 | 17°R15 | 12°46 | 3°40 | 22°26 | 28°22 | 21°27 | 13°20 | 14° 0 | 17°12 | 15°42 | 9°53 | n.a. | M23 |
| T 24 | 23 59 29 | 27°59'45 | 27°43 | 17°11 | 14° 1 | 4° 9 | 22°39 | 28°24 | 21°29 | 13°21 | 14° 0 | 17°14 | 15°39 | 9°59 | n.a. | T 24 |
| W25 | 0 3 26 | 28°59'40 | 10♌16 | 16°59 | 15°17 | 4°38 | 22°51 | 28°26 | 21°31 | 13°21 | 14° 0 | 17°15 | 15°36 | 10° 6 | n.a. | W25 |
| T 26 | 0 7 22 | 29°59'38 | 23° 9 | 16°39 | 16°32 | 5° 7 | 23° 4 | 28°28 | 21°32 | 13°22 | 13°59 | 17°R15 | 15°33 | 10°13 | n.a. | T 26 |
| F 27 | 0 11 19 | 0♎59'37 | 6♍26 | 16° 9 | 17°47 | 5°36 | 23°17 | 28°30 | 21°34 | 13°23 | 13°59 | 17°13 | 15°29 | 10°19 | n.a. | F 27 |
| S 28 | 0 15 15 | 1°59'39 | 20° 6 | 15°31 | 19° 2 | 6° 4 | 23°30 | 28°32 | 21°36 | 13°24 | 13°59 | 17°10 | 15°26 | 10°26 | n.a. | S 28 |
| S 29 | 0 19 12 | 2°59'42 | 4♎ 8 | 14°43 | 20°17 | 6°32 | 23°43 | 28°34 | 21°38 | 13°25 | 13°59 | 17° 4 | 15°23 | 10°33 | n.a. | S 29 |
| M30 | 0 23 8 | 3♎59'48 | 18♎27 | 13♎47 | 21♍33 | 7♋ 0 | 23♎56 | 28♊35 | 21♋40 | 13♋25 | 13♊58 | 16♒56 | 15♒20 | 10♊40 | n.a. | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| S 1 | 9n43 | 1s 0 | 3s11 | 0s53 | 1s34 | 17n31 | 1n 9 | 23n48 | 0n21 | 6s12 | 1n 1 | 23n 3 | 0s37 | 22n38 | 0n31 | 22n49 | 0s16 | 19n40 | 3s 5 | 15s39 | 15s57 | 26n32 | | | n.a. |
| M 2 | 9 21 | 7 23 | 4 6 | 1 31 | 1 41 | 17 10 | 1 11 | 23 52 | 0 22 | 6 16 | 1 1 | 23 4 | 0 37 | 22 38 | 0 31 | 22 49 | 0 16 | 19 40 | 3 5 | 15 39 | 15 58 | 26 33 | | | n.a. |
| T 3 | 8 58 | 13 29 | 4 46 | 2 8 | 1 49 | 16 48 | 1 12 | 23 54 | 0 23 | 6 21 | 1 1 | 23 4 | 0 37 | 22 37 | 0 31 | 22 48 | 0 16 | 19 40 | 3 5 | 15 40 | 15 59 | 26 34 | | | n.a. |
| W 4 | 8 36 | 18 56 | 5 9 | 2 45 | 1 56 | 16 26 | 1 14 | 23 57 | 0 24 | 6 25 | 1 1 | 23 4 | 0 37 | 22 37 | 0 32 | 22 48 | 0 16 | 19 40 | 3 6 | 15 41 | 16 0 | 26 35 | | | n.a. |
| T 5 | 8 14 | 23 22 | 5 14 | 3 20 | 2 3 | 16 4 | 1 15 | 24 0 | 0 25 | 6 30 | 1 1 | 23 4 | 0 37 | 22 36 | 0 32 | 22 48 | 0 16 | 19 40 | 3 6 | 15 42 | 16 1 | 26 36 | | | n.a. |
| F 6 | 7 51 | 26 24 | 4 59 | 3 55 | 2 11 | 15 41 | 1 17 | 24 2 | 0 26 | 6 35 | 1 0 | 23 4 | 0 37 | 22 36 | 0 32 | 22 48 | 0 16 | 19 40 | 3 6 | 15 42 | 16 2 | 26 36 | | | n.a. |
| S 7 | 7 29 | 27 44 | 4 26 | 4 30 | 2 17 | 15 17 | 1 18 | 24 5 | 0 27 | 6 39 | 1 0 | 23 4 | 0 37 | 22 36 | 0 32 | 22 48 | 0 16 | 19 40 | 3 6 | 15 42 | 16 3 | 26 37 | | | n.a. |
| S 8 | 7 6 | 27 16 | 3 38 | 5 3 | 2 24 | 14 54 | 1 19 | 24 7 | 0 29 | 6 44 | 1 0 | 23 4 | 0 37 | 22 35 | 0 32 | 22 48 | 0 16 | 19 40 | 3 6 | 15 42 | 16 4 | 26 38 | | | n.a. |
| M 9 | 6 43 | 25 3 | 2 36 | 5 35 | 2 31 | 14 29 | 1 20 | 24 9 | 0 30 | 6 49 | 1 0 | 23 4 | 0 37 | 22 35 | 0 32 | 22 48 | 0 16 | 19 40 | 3 6 | 15 41 | 16 5 | 26 39 | | | n.a. |
| T 10 | 6 20 | 21 21 | 1 26 | 6 5 | 2 37 | 14 5 | 1 21 | 24 11 | 0 31 | 6 53 | 1 0 | 23 4 | 0 37 | 22 34 | 0 32 | 22 48 | 0 16 | 19 40 | 3 6 | 15 41 | 16 6 | 26 40 | | | n.a. |
| W11 | 5 57 | 16 30 | 0 11 | 6 35 | 2 43 | 13 39 | 1 22 | 24 13 | 0 32 | 6 58 | 1 0 | 23 4 | 0 37 | 22 34 | 0 32 | 22 47 | 0 16 | 19 40 | 3 6 | 15 40 | 16 7 | 26 40 | | | n.a. |
| T 12 | 5 33 | 10 53 | 1n 3 | 7 3 | 2 48 | 13 14 | 1 23 | 24 15 | 0 33 | 7 3 | 1 0 | 23 5 | 0 37 | 22 34 | 0 32 | 22 47 | 0 16 | 19 40 | 3 6 | 15 41 | 16 8 | 26 41 | | | n.a. |
| F 13 | 5 10 | 4 52 | 2 12 | 7 30 | 2 54 | 12 48 | 1 24 | 24 16 | 0 35 | 7 8 | 0 59 | 23 5 | 0 37 | 22 33 | 0 32 | 22 47 | 0 16 | 19 40 | 3 6 | 15 41 | 16 9 | 26 42 | | | n.a. |
| S 14 | 4 47 | 1n14 | 3 13 | 7 55 | 2 59 | 12 22 | 1 25 | 24 18 | 0 36 | 7 12 | 0 59 | 23 5 | 0 37 | 22 33 | 0 32 | 22 47 | 0 16 | 19 40 | 3 6 | 15 42 | 16 10 | 26 43 | | | n.a. |
| S 15 | 4 23 | 7 10 | 4 2 | 8 18 | 3 3 | 11 55 | 1 25 | 24 19 | 0 37 | 7 17 | 0 59 | 23 5 | 0 37 | 22 33 | 0 32 | 22 47 | 0 16 | 19 40 | 3 6 | 15 44 | 16 11 | 26 43 | | | n.a. |
| M16 | 3 59 | 12 41 | 4 39 | 8 38 | 3 7 | 11 28 | 1 26 | 24 21 | 0 38 | 7 22 | 0 59 | 23 5 | 0 37 | 22 32 | 0 32 | 22 47 | 0 16 | 19 40 | 3 6 | 15 45 | 16 12 | 26 44 | | | n.a. |
| T 17 | 3 36 | 17 35 | 5 2 | 8 57 | 3 10 | 11 1 | 1 26 | 24 22 | 0 40 | 7 27 | 0 59 | 23 5 | 0 36 | 22 32 | 0 32 | 22 47 | 0 16 | 19 40 | 3 6 | 15 47 | 16 13 | 26 45 | | | n.a. |
| W18 | 3 12 | 21 42 | 5 11 | 9 13 | 3 13 | 10 34 | 1 27 | 24 23 | 0 41 | 7 31 | 0 59 | 23 5 | 0 36 | 22 32 | 0 32 | 22 47 | 0 16 | 19 40 | 3 6 | 15 49 | 16 14 | 26 46 | | | n.a. |
| T 19 | 2 48 | 24 51 | 5 6 | 9 27 | 3 14 | 10 6 | 1 27 | 24 24 | 0 42 | 7 36 | 0 59 | 23 5 | 0 36 | 22 31 | 0 32 | 22 47 | 0 16 | 19 40 | 3 6 | 15 50 | 16 15 | 26 46 | | | n.a. |
| F 20 | 2 24 | 26 53 | 4 48 | 9 37 | 3 15 | 9 38 | 1 28 | 24 25 | 0 44 | 7 41 | 0 58 | 23 5 | 0 36 | 22 31 | 0 32 | 22 46 | 0 16 | 19 40 | 3 6 | 15 51 | 16 15 | 26 47 | | | n.a. |
| S 21 | 2 0 | 27 42 | 4 17 | 9 45 | 3 15 | 9 9 | 1 28 | 24 25 | 0 45 | 7 46 | 0 58 | 23 5 | 0 36 | 22 31 | 0 32 | 22 46 | 0 16 | 19 40 | 3 6 | 15 51 | 16 16 | 26 48 | | | n.a. |
| S 22 | 1 36 | 27 15 | 3 35 | 9 48 | 3 14 | 8 41 | 1 28 | 24 26 | 0 46 | 7 51 | 0 58 | 23 5 | 0 36 | 22 30 | 0 32 | 22 46 | 0 16 | 19 40 | 3 6 | 15 51 | 16 17 | 26 48 | | | n.a. |
| M23 | 1 12 | 25 30 | 2 44 | 9 48 | 3 12 | 8 12 | 1 28 | 24 27 | 0 48 | 7 56 | 0 58 | 23 5 | 0 36 | 22 30 | 0 32 | 22 46 | 0 16 | 19 39 | 3 6 | 15 51 | 16 18 | 26 49 | | | n.a. |
| T 24 | 0 48 | 22 33 | 1 44 | 9 43 | 3 9 | 7 43 | 1 28 | 24 27 | 0 49 | 8 1 | 0 58 | 23 5 | 0 36 | 22 30 | 0 32 | 22 46 | 0 16 | 19 39 | 3 6 | 15 51 | 16 19 | 26 50 | | | n.a. |
| W25 | 0 24 | 18 28 | 0 38 | 9 34 | 3 4 | 7 13 | 1 28 | 24 28 | 0 50 | 8 5 | 0 58 | 23 5 | 0 36 | 22 30 | 0 32 | 22 46 | 0 16 | 19 39 | 3 6 | 15 50 | 16 20 | 26 50 | | | n.a. |
| T 26 | 0 0 | 13 27 | 0s32 | 9 20 | 2 57 | 6 44 | 1 28 | 24 28 | 0 52 | 8 10 | 0 58 | 23 6 | 0 36 | 22 29 | 0 32 | 22 46 | 0 16 | 19 39 | 3 6 | 15 50 | 16 21 | 26 51 | | | n.a. |
| F 27 | 0s24 | 7 41 | 1 42 | 9 1 | 2 49 | 6 14 | 1 28 | 24 28 | 0 53 | 8 15 | 0 58 | 23 6 | 0 36 | 22 29 | 0 32 | 22 46 | 0 16 | 19 39 | 3 6 | 15 51 | 16 22 | 26 52 | | | n.a. |
| S 28 | 0 48 | 1 24 | 2 48 | 8 37 | 2 39 | 5 44 | 1 28 | 24 28 | 0 54 | 8 20 | 0 57 | 23 6 | 0 36 | 22 29 | 0 32 | 22 46 | 0 16 | 19 39 | 3 6 | 15 52 | 16 23 | 26 52 | | | n.a. |
| S 29 | 1 12 | 5s 6 | 3 45 | 8 7 | 2 27 | 5 14 | 1 28 | 24 28 | 0 56 | 8 25 | 0 57 | 23 6 | 0 36 | 22 29 | 0 32 | 22 46 | 0 16 | 19 39 | 3 6 | 15 54 | 16 24 | 26 53 | | | n.a. |
| M30 | 1s36 | 11s28 | 4s30 | 7s32 | 2s13 | 4n44 | 1n28 | 24n28 | 0n57 | 8s30 | 0n57 | 23n 6 | 0s36 | 22n28 | 0n32 | 22n46 | 0s16 | 19n39 | 3s 6 | 15s56 | 16s25 | 26n54 | | | n.a. |

Julian Day Number = 1700116.5, Delta T = 03h06m00s
Ecliptic obliquity = 23°42'15, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°52'09, Lahiri = - 4°45'08 Julian Calendar 1 Sept. 59 BCE == Greg. Calendar 30 Aug. 059 BCE

The year -58 astronomical counting style corresponds to year 059 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 59 BCE
# geocentric

## OCTOBER 59 BCE (-58) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 27 5 | 4♎59'55 | 2♏59 | 12°R43 | 22♍48 | 7♋27 | 24♎ 9 | 28♊37 | 21♋41 | 13♋26 | 13°R58 | 16°R49 | 15♒17 | 10♊46 | n.a. | T 1 |
| W 2 | 0 31 1 | 6° 0'04 | 17°34 | 11♎33 | 24° 3 | 7°55 | 24°22 | 28°38 | 21°43 | 13°26 | 13♊58 | 16♒41 | 15°13 | 10°53 | n.a. | W 2 |
| T 3 | 0 34 58 | 7° 0'16 | 2♐ 8 | 10°18 | 25°19 | 8°22 | 24°35 | 28°39 | 21°44 | 13°27 | 13°57 | 16°35 | 15°10 | 11° 0 | n.a. | T 3 |
| F 4 | 0 38 54 | 8° 0'28 | 16°35 | 9° 0 | 26°34 | 8°48 | 24°48 | 28°40 | 21°46 | 13°28 | 13°57 | 16°31 | 15° 7 | 11° 6 | n.a. | F 4 |
| S 5 | 0 42 51 | 9° 0'43 | 0♑50 | 7°42 | 27°49 | 9°15 | 25° 1 | 28°41 | 21°47 | 13°28 | 13°57 | 16°29 | 15° 4 | 11°13 | n.a. | S 5 |
| S 6 | 0 46 48 | 10° 0'59 | 14°51 | 6°26 | 29° 5 | 9°41 | 25°14 | 28°42 | 21°49 | 13°29 | 13°56 | 16°D28 | 15° 1 | 11°20 | n.a. | S 6 |
| M 7 | 0 50 44 | 11° 1'16 | 28°39 | 5°15 | 0♎20 | 10° 7 | 25°27 | 28°43 | 21°50 | 13°29 | 13°56 | 16°29 | 14°58 | 11°27 | n.a. | M 7 |
| T 8 | 0 54 41 | 12° 1'35 | 12♒13 | 4°11 | 1°36 | 10°32 | 25°40 | 28°44 | 21°51 | 13°29 | 13°55 | 16°R30 | 14°54 | 11°33 | n.a. | T 8 |
| W 9 | 0 58 37 | 13° 1'56 | 25°34 | 3°15 | 2°51 | 10°58 | 25°54 | 28°44 | 21°53 | 13°30 | 13°55 | 16°30 | 14°51 | 11°40 | n.a. | W 9 |
| T 10 | 1 2 34 | 14° 2'18 | 8♓44 | 2°29 | 4° 6 | 11°23 | 26° 7 | 28°45 | 21°54 | 13°30 | 13°54 | 16°27 | 14°48 | 11°47 | n.a. | T 10 |
| F 11 | 1 6 30 | 15° 2'41 | 21°43 | 1°55 | 5°22 | 11°47 | 26°20 | 28°45 | 21°55 | 13°30 | 13°54 | 16°22 | 14°45 | 11°53 | n.a. | F 11 |
| S 12 | 1 10 27 | 16° 3'07 | 4♈31 | 1°32 | 6°37 | 12°12 | 26°33 | 28°45 | 21°56 | 13°31 | 13°53 | 16°15 | 14°42 | 12° 0 | n.a. | S 12 |
| S 13 | 1 14 23 | 17° 3'33 | 17° 8 | 1°D20 | 7°53 | 12°36 | 26°47 | 28°46 | 21°57 | 13°31 | 13°53 | 16° 5 | 14°38 | 12° 7 | n.a. | S 13 |
| M14 | 1 18 20 | 18° 4'02 | 29°34 | 1°21 | 9° 8 | 13° 0 | 27° 0 | 28°R46 | 21°58 | 13°31 | 13°52 | 15°53 | 14°35 | 12°13 | n.a. | M14 |
| T 15 | 1 22 17 | 19° 4'33 | 11♉49 | 1°32 | 10°24 | 13°23 | 27°13 | 28°45 | 21°59 | 13°31 | 13°51 | 15°41 | 14°32 | 12°20 | n.a. | T 15 |
| W16 | 1 26 13 | 20° 5'05 | 23°54 | 1°53 | 11°39 | 13°46 | 27°27 | 28°45 | 22° 0 | 13°31 | 13°51 | 15°29 | 14°29 | 12°27 | n.a. | W16 |
| T 17 | 1 30 10 | 21° 5'39 | 5♊51 | 2°24 | 12°55 | 14° 9 | 27°40 | 28°45 | 22° 0 | 13°31 | 13°50 | 15°19 | 14°26 | 12°34 | n.a. | T 17 |
| F 18 | 1 34 6 | 22° 6'15 | 17°42 | 3° 3 | 14°10 | 14°31 | 27°53 | 28°44 | 22° 1 | 13°32 | 13°49 | 15°11 | 14°23 | 12°40 | n.a. | F 18 |
| S 19 | 1 38 3 | 23° 6'52 | 29°32 | 3°49 | 15°26 | 14°53 | 28° 7 | 28°44 | 22° 2 | 13°R32 | 13°49 | 15° 5 | 14°19 | 12°47 | n.a. | S 19 |
| S 20 | 1 41 59 | 24° 7'32 | 11♋23 | 4°43 | 16°41 | 15°14 | 28°20 | 28°43 | 22° 3 | 13°32 | 13°48 | 15° 3 | 14°16 | 12°54 | n.a. | S 20 |
| M21 | 1 45 56 | 25° 8'13 | 23°22 | 5°42 | 17°57 | 15°36 | 28°34 | 28°42 | 22° 3 | 13°32 | 13°47 | 15°D 2 | 14°13 | 13° 0 | n.a. | M21 |
| T 22 | 1 49 52 | 26° 8'56 | 5♌33 | 6°46 | 19°12 | 15°56 | 28°47 | 28°42 | 22° 4 | 13°31 | 13°46 | 15° 2 | 14°10 | 13° 7 | n.a. | T 22 |
| W23 | 1 53 49 | 27° 9'41 | 18° 3 | 7°55 | 20°28 | 16°17 | 29° 0 | 28°41 | 22° 4 | 13°31 | 13°46 | 15°R 2 | 14° 7 | 13°14 | n.a. | W23 |
| T 24 | 1 57 46 | 28°10'27 | 0♍55 | 9° 7 | 21°44 | 16°37 | 29°14 | 28°39 | 22° 5 | 13°31 | 13°45 | 15° 1 | 14° 4 | 13°21 | n.a. | T 24 |
| F 25 | 2 1 42 | 29°11'16 | 14°13 | 10°23 | 22°59 | 16°56 | 29°27 | 28°38 | 22° 5 | 13°31 | 13°44 | 14°58 | 14° 0 | 13°27 | n.a. | F 25 |
| S 26 | 2 5 39 | 0♏12'05 | 28° 1 | 11°42 | 24°15 | 17°16 | 29°41 | 28°37 | 22° 5 | 13°31 | 13°43 | 14°52 | 13°57 | 13°34 | n.a. | S 26 |
| S 27 | 2 9 35 | 1°12'56 | 12♎16 | 13° 3 | 25°30 | 17°34 | 29°54 | 28°35 | 22° 5 | 13°31 | 13°42 | 14°43 | 13°54 | 13°41 | n.a. | S 27 |
| M28 | 2 13 32 | 2°13'49 | 26°55 | 14°26 | 26°46 | 17°52 | 0♏ 8 | 28°34 | 22° 6 | 13°30 | 13°41 | 14°33 | 13°51 | 13°47 | n.a. | M28 |
| T 29 | 2 17 28 | 3°14'43 | 11♏50 | 15°50 | 28° 2 | 18°10 | 0°21 | 28°32 | 22° 6 | 13°30 | 13°40 | 14°21 | 13°48 | 13°54 | n.a. | T 29 |
| W30 | 2 21 25 | 4°15'38 | 26°53 | 17°16 | 29°17 | 18°28 | 0°34 | 28°30 | 22° 6 | 13°30 | 13°40 | 14° 9 | 13°44 | 14° 1 | n.a. | W30 |
| T 31 | 2 25 21 | 5♏16'35 | 11♐53 | 18♎44 | 0♏33 | 18♋44 | 0♏48 | 28♊28 | 22°R 6 | 13♋29 | 13♊39 | 13♒59 | 13♒41 | 14♊ 7 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 2s 0 | 17s18 | 4s58 | 6s53 | 1s58 | 4n13 | 1n27 | 24n28 | 0n59 | 8s35 | 0n57 | 23n 6 | 0s36 | 22n28 | 0n32 | 22n46 | 0s16 | 19n39 | 3s 6 | 15s58 | 16s26 | 26n54 | | | n.a. |
| W 2 | 2 25 | 22 9 | 5 7 | 6 9 | 1 40 | 3 43 | 1 27 | 24 28 | 1 0 | 8 40 | 0 57 | 23 6 | 0 36 | 22 28 | 0 32 | 22 46 | 0 16 | 19 39 | 3 6 | 16 1 | 16 27 | 26 55 | | | n.a. |
| T 3 | 2 49 | 25 39 | 4 56 | 5 22 | 1 22 | 3 12 | 1 26 | 24 28 | 1 2 | 8 45 | 0 57 | 23 6 | 0 36 | 22 28 | 0 32 | 22 45 | 0 16 | 19 39 | 3 6 | 16 2 | 16 28 | 26 56 | | | n.a. |
| F 4 | 3 13 | 27 26 | 4 26 | 4 33 | 1 2 | 2 41 | 1 26 | 24 28 | 1 3 | 8 50 | 0 57 | 23 6 | 0 36 | 22 27 | 0 32 | 22 45 | 0 16 | 19 39 | 3 6 | 16 4 | 16 29 | 26 56 | | | n.a. |
| S 5 | 3 37 | 27 22 | 3 40 | 3 44 | 0 42 | 2 10 | 1 25 | 24 27 | 1 5 | 8 55 | 0 57 | 23 6 | 0 36 | 22 27 | 0 33 | 22 45 | 0 16 | 19 39 | 3 6 | 16 4 | 16 30 | 26 57 | | | n.a. |
| S 6 | 4 1 | 25 32 | 2 41 | 2 54 | 0 21 | 1 39 | 1 24 | 24 27 | 1 6 | 8 59 | 0 57 | 23 6 | 0 36 | 22 27 | 0 33 | 22 45 | 0 16 | 19 39 | 3 6 | 16 4 | 16 31 | 26 57 | | | n.a. |
| M 7 | 4 24 | 22 12 | 1 34 | 2 7 | 0 0 | 1 8 | 1 23 | 24 27 | 1 8 | 9 4 | 0 57 | 23 6 | 0 36 | 22 27 | 0 33 | 22 45 | 0 16 | 19 39 | 3 6 | 16 4 | 16 32 | 26 58 | | | n.a. |
| T 8 | 4 48 | 17 41 | 0 23 | 1 23 | 0n20 | 0 37 | 1 23 | 24 26 | 1 10 | 9 9 | 0 56 | 23 6 | 0 36 | 22 27 | 0 33 | 22 45 | 0 16 | 19 39 | 3 6 | 16 4 | 16 33 | 26 58 | | | n.a. |
| W 9 | 5 12 | 12 23 | 0n48 | 0 43 | 0 39 | 0 6 | 1 22 | 24 26 | 1 11 | 9 14 | 0 56 | 23 6 | 0 36 | 22 27 | 0 33 | 22 45 | 0 16 | 19 39 | 3 6 | 16 4 | 16 33 | 26 59 | | | n.a. |
| T 10 | 5 36 | 6 36 | 1 56 | 0 9 | 0 56 | 0s25 | 1 21 | 24 25 | 1 13 | 9 19 | 0 56 | 23 6 | 0 36 | 22 26 | 0 33 | 22 45 | 0 16 | 19 39 | 3 6 | 16 5 | 16 34 | 27 0 | | | n.a. |
| F 11 | 5 59 | 0 37 | 2 56 | 0n20 | 1 12 | 0 56 | 1 20 | 24 25 | 1 14 | 9 24 | 0 56 | 23 6 | 0 36 | 22 26 | 0 33 | 22 45 | 0 16 | 19 39 | 3 6 | 16 6 | 16 35 | 27 0 | | | n.a. |
| S 12 | 6 23 | 5n17 | 3 47 | 0 42 | 1 26 | 1 27 | 1 19 | 24 24 | 1 16 | 9 29 | 0 56 | 23 6 | 0 36 | 22 26 | 0 33 | 22 45 | 0 16 | 19 38 | 3 6 | 16 9 | 16 36 | 27 1 | | | n.a. |
| S 13 | 6 46 | 10 53 | 4 25 | 0 58 | 1 39 | 1 58 | 1 18 | 24 23 | 1 18 | 9 34 | 0 56 | 23 6 | 0 36 | 22 26 | 0 33 | 22 45 | 0 16 | 19 38 | 3 6 | 16 12 | 16 37 | 27 1 | | | n.a. |
| M14 | 7 10 | 15 57 | 4 51 | 1 8 | 1 49 | 2 30 | 1 16 | 24 23 | 1 19 | 9 39 | 0 56 | 23 6 | 0 36 | 22 26 | 0 33 | 22 45 | 0 16 | 19 38 | 3 6 | 16 15 | 16 38 | 27 2 | | | n.a. |
| T 15 | 7 33 | 20 19 | 5 2 | 1 12 | 1 58 | 3 1 | 1 15 | 24 22 | 1 21 | 9 44 | 0 56 | 23 6 | 0 36 | 22 26 | 0 33 | 22 45 | 0 16 | 19 38 | 3 6 | 16 19 | 16 39 | 27 2 | | | n.a. |
| W16 | 7 56 | 23 47 | 4 59 | 1 10 | 2 6 | 3 32 | 1 14 | 24 21 | 1 23 | 9 49 | 0 56 | 23 6 | 0 36 | 22 26 | 0 33 | 22 45 | 0 16 | 19 38 | 3 6 | 16 22 | 16 40 | 27 3 | | | n.a. |
| T 17 | 8 19 | 26 10 | 4 44 | 1 2 | 2 11 | 4 3 | 1 12 | 24 21 | 1 25 | 9 54 | 0 56 | 23 6 | 0 35 | 22 26 | 0 33 | 22 45 | 0 16 | 19 38 | 3 6 | 16 25 | 16 41 | 27 3 | | | n.a. |
| F 18 | 8 42 | 27 22 | 4 16 | 0 50 | 2 15 | 4 34 | 1 11 | 24 20 | 1 26 | 9 59 | 0 56 | 23 6 | 0 35 | 22 25 | 0 33 | 22 45 | 0 16 | 19 38 | 3 6 | 16 28 | 16 42 | 27 4 | | | n.a. |
| S 19 | 9 5 | 27 19 | 3 37 | 0 34 | 2 18 | 5 4 | 1 10 | 24 19 | 1 28 | 10 3 | 0 56 | 23 6 | 0 35 | 22 25 | 0 33 | 22 45 | 0 16 | 19 38 | 3 6 | 16 29 | 16 43 | 27 4 | | | n.a. |
| S 20 | 9 27 | 26 1 | 2 49 | 0 14 | 2 19 | 5 35 | 1 8 | 24 19 | 1 30 | 10 8 | 0 55 | 23 6 | 0 35 | 22 25 | 0 33 | 22 45 | 0 16 | 19 38 | 3 6 | 16 30 | 16 44 | 27 5 | | | n.a. |
| M21 | 9 50 | 23 30 | 1 52 | 0s 9 | 2 20 | 6 6 | 1 7 | 24 18 | 1 32 | 10 13 | 0 55 | 23 7 | 0 35 | 22 25 | 0 33 | 22 45 | 0 16 | 19 38 | 3 6 | 16 30 | 16 45 | 27 5 | | | n.a. |
| T 22 | 10 12 | 19 54 | 0 50 | 0 35 | 2 19 | 6 36 | 1 5 | 24 17 | 1 34 | 10 18 | 0 55 | 23 7 | 0 35 | 22 25 | 0 33 | 22 45 | 0 16 | 19 38 | 3 6 | 16 30 | 16 46 | 27 6 | | | n.a. |
| W23 | 10 34 | 15 20 | 0s16 | 1 4 | 2 18 | 7 6 | 1 3 | 24 17 | 1 36 | 10 23 | 0 55 | 23 7 | 0 35 | 22 25 | 0 33 | 22 45 | 0 16 | 19 38 | 3 6 | 16 30 | 16 47 | 27 6 | | | n.a. |
| T 24 | 10 57 | 9 59 | 1 23 | 1 35 | 2 16 | 7 37 | 1 2 | 24 16 | 1 37 | 10 28 | 0 55 | 23 7 | 0 35 | 22 25 | 0 33 | 22 45 | 0 16 | 19 37 | 3 6 | 16 31 | 16 48 | 27 6 | | | n.a. |
| F 25 | 11 18 | 4 0 | 2 28 | 2 8 | 2 13 | 8 6 | 1 0 | 24 16 | 1 39 | 10 33 | 0 55 | 23 7 | 0 35 | 22 25 | 0 33 | 22 45 | 0 16 | 19 37 | 3 6 | 16 32 | 16 48 | 27 7 | | | n.a. |
| S 26 | 11 40 | 2s21 | 3 27 | 2 42 | 2 9 | 8 36 | 0 58 | 24 15 | 1 41 | 10 37 | 0 55 | 23 7 | 0 35 | 22 25 | 0 33 | 22 45 | 0 15 | 19 37 | 3 6 | 16 33 | 16 49 | 27 7 | | | n.a. |
| S 27 | 12 2 | 8 47 | 4 14 | 3 17 | 2 5 | 9 6 | 0 56 | 24 14 | 1 43 | 10 42 | 0 55 | 23 7 | 0 35 | 22 25 | 0 33 | 22 45 | 0 15 | 19 37 | 3 6 | 16 36 | 16 50 | 27 8 | | | n.a. |
| M28 | 12 23 | 14 56 | 4 47 | 3 54 | 2 1 | 9 35 | 0 54 | 24 14 | 1 45 | 10 47 | 0 55 | 23 7 | 0 35 | 22 25 | 0 33 | 22 45 | 0 15 | 19 37 | 3 6 | 16 39 | 16 51 | 27 8 | | | n.a. |
| T 29 | 12 44 | 20 18 | 5 0 | 4 31 | 1 56 | 10 4 | 0 52 | 24 14 | 1 47 | 10 52 | 0 55 | 23 7 | 0 35 | 22 25 | 0 33 | 22 45 | 0 15 | 19 37 | 3 6 | 16 42 | 16 52 | 27 8 | | | n.a. |
| W30 | 13 5 | 24 25 | 4 53 | 5 10 | 1 50 | 10 33 | 0 50 | 24 13 | 1 49 | 10 57 | 0 55 | 23 7 | 0 35 | 22 25 | 0 33 | 22 45 | 0 15 | 19 37 | 3 6 | 16 46 | 16 53 | 27 9 | | | n.a. |
| T 31 | 13s25 | 26s51 | 4s26 | 5s48 | 1n45 | 11s 2 | 0n48 | 24n13 | 1n51 | 11s 1 | 0n55 | 23n 7 | 0s35 | 22n25 | 0n33 | 22n45 | 0s15 | 19n37 | 3s 6 | 16s49 | 16s54 | 27n 9 | | | n.a. |

Julian Day Number = 1700146.5, Delta T = 03h05m59s
Ecliptic obliquity = 23°42'15, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°52'05, Lahiri = - 4°45'04 Julian Calendar 1 Oct. 59 BCE == Greg. Calendar 29 Sept. 059 BCE

The year -58 astronomical counting style corresponds to year 059 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 59 BCE
# geocentric

## NOVEMBER 59 BCE (-58) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 2 29 18 | 6♏17'32 | 26♐41 | 20♎12 | 1♏48 | 19♋ 1 | 1♏ 1 | 28°R26 | 22°R 6 | 13°R29 | 13°R38 | 13°R52 | 13♒38 | 14♊14 | n.a. | F 1 |
| S 2 | 2 33 15 | 7°18'31 | 11♑12 | 21°41 | 3° 4 | 19°16 | 1°15 | 28♊24 | 22♋ 6 | 13♋28 | 13♊37 | 13♒48 | 13°35 | 14°21 | n.a. | S 2 |
| S 3 | 2 37 11 | 8°19'30 | 25°21 | 23°11 | 4°20 | 19°32 | 1°28 | 28°22 | 22° 6 | 13°28 | 13°36 | 13°46 | 13°32 | 14°28 | n.a. | S 3 |
| M 4 | 2 41 8 | 9°20'30 | 9♒ 8 | 24°41 | 5°35 | 19°47 | 1°42 | 28°20 | 22° 5 | 13°27 | 13°35 | 13°46 | 13°29 | 14°34 | n.a. | M 4 |
| T 5 | 2 45 4 | 10°21'31 | 22°35 | 26°12 | 6°51 | 20° 1 | 1°55 | 28°17 | 22° 5 | 13°27 | 13°34 | 13°46 | 13°25 | 14°41 | n.a. | T 5 |
| W 6 | 2 49 1 | 11°22'32 | 5♓44 | 27°43 | 8° 6 | 20°15 | 2° 8 | 28°15 | 22° 5 | 13°26 | 13°33 | 13°44 | 13°22 | 14°48 | n.a. | W 6 |
| T 7 | 2 52 57 | 12°23'34 | 18°37 | 29°15 | 9°22 | 20°28 | 2°22 | 28°12 | 22° 5 | 13°26 | 13°32 | 13°41 | 13°19 | 14°54 | n.a. | T 7 |
| F 8 | 2 56 54 | 13°24'37 | 1♈17 | 0♏47 | 10°38 | 20°40 | 2°35 | 28°10 | 22° 4 | 13°25 | 13°31 | 13°34 | 13°16 | 15° 1 | n.a. | F 8 |
| S 9 | 3 0 50 | 14°25'40 | 13°47 | 2°19 | 11°53 | 20°52 | 2°48 | 28° 7 | 22° 4 | 13°24 | 13°30 | 13°25 | 13°13 | 15° 8 | n.a. | S 9 |
| S 10 | 3 4 47 | 15°26'45 | 26° 8 | 3°51 | 13° 9 | 21° 4 | 3° 2 | 28° 4 | 22° 3 | 13°24 | 13°29 | 13°13 | 13°10 | 15°15 | n.a. | S 10 |
| M11 | 3 8 44 | 16°27'50 | 8♉20 | 5°23 | 14°24 | 21°15 | 3°15 | 28° 1 | 22° 3 | 13°23 | 13°27 | 12°58 | 13° 6 | 15°21 | n.a. | M11 |
| T 12 | 3 12 40 | 17°28'55 | 20°26 | 6°56 | 15°40 | 21°25 | 3°28 | 27°58 | 22° 2 | 13°22 | 13°26 | 12°43 | 13° 3 | 15°28 | n.a. | T 12 |
| W13 | 3 16 37 | 18°30'02 | 2♊24 | 8°29 | 16°55 | 21°35 | 3°41 | 27°55 | 22° 1 | 13°21 | 13°25 | 12°29 | 13° 0 | 15°35 | n.a. | W13 |
| T 14 | 3 20 33 | 19°31'10 | 14°18 | 10° 2 | 18°11 | 21°44 | 3°55 | 27°51 | 22° 0 | 13°21 | 13°24 | 12°16 | 12°57 | 15°41 | n.a. | T 14 |
| F 15 | 3 24 30 | 20°32'18 | 26° 8 | 11°35 | 19°27 | 21°52 | 4° 8 | 27°48 | 22° 0 | 13°20 | 13°23 | 12° 6 | 12°54 | 15°48 | n.a. | F 15 |
| S 16 | 3 28 26 | 21°33'27 | 7♋57 | 13° 8 | 20°42 | 22° 0 | 4°21 | 27°45 | 21°59 | 13°19 | 13°22 | 11°58 | 12°50 | 15°55 | n.a. | S 16 |
| S 17 | 3 32 23 | 22°34'37 | 19°47 | 14°41 | 21°58 | 22° 7 | 4°34 | 27°41 | 21°58 | 13°18 | 13°21 | 11°54 | 12°47 | 16° 1 | n.a. | S 17 |
| M18 | 3 36 20 | 23°35'48 | 1♌45 | 16°14 | 23°13 | 22°13 | 4°47 | 27°38 | 21°57 | 13°17 | 13°20 | 11°52 | 12°44 | 16° 8 | n.a. | M18 |
| T 19 | 3 40 16 | 24°37'00 | 13°53 | 17°48 | 24°29 | 22°19 | 5° 0 | 27°34 | 21°56 | 13°16 | 13°18 | 11°D51 | 12°41 | 16°15 | n.a. | T 19 |
| W20 | 3 44 13 | 25°38'12 | 26°17 | 19°21 | 25°44 | 22°24 | 5°13 | 27°30 | 21°55 | 13°15 | 13°17 | 11°R51 | 12°38 | 16°22 | n.a. | W20 |
| T 21 | 3 48 9 | 26°39'25 | 9♍ 3 | 20°55 | 27° 0 | 22°28 | 5°26 | 27°26 | 21°54 | 13°14 | 13°16 | 11°51 | 12°35 | 16°28 | n.a. | T 21 |
| F 22 | 3 52 6 | 27°40'39 | 22°15 | 22°29 | 28°15 | 22°32 | 5°39 | 27°22 | 21°53 | 13°13 | 13°15 | 11°49 | 12°31 | 16°35 | n.a. | F 22 |
| S 23 | 3 56 2 | 28°41'53 | 5♎57 | 24° 3 | 29°31 | 22°35 | 5°52 | 27°18 | 21°51 | 13°12 | 13°14 | 11°44 | 12°28 | 16°42 | n.a. | S 23 |
| S 24 | 3 59 59 | 29°43'08 | 20°10 | 25°38 | 0♐47 | 22°37 | 6° 5 | 27°14 | 21°50 | 13°11 | 13°13 | 11°36 | 12°25 | 16°48 | n.a. | S 24 |
| M25 | 4 3 55 | 0♐44'23 | 4♏50 | 27°12 | 2° 2 | 22°38 | 6°18 | 27°10 | 21°49 | 13°10 | 13°11 | 11°26 | 12°22 | 16°55 | n.a. | M25 |
| T 26 | 4 7 52 | 1°45'40 | 19°53 | 28°47 | 3°18 | 22°R39 | 6°31 | 27° 6 | 21°47 | 13° 8 | 13°10 | 11°16 | 12°19 | 17° 2 | n.a. | T 26 |
| W27 | 4 11 49 | 2°46'56 | 5♐10 | 0♐22 | 4°33 | 22°38 | 6°44 | 27° 2 | 21°46 | 13° 7 | 13° 9 | 11° 5 | 12°16 | 17° 8 | n.a. | W27 |
| T 28 | 4 15 45 | 3°48'13 | 20°27 | 1°57 | 5°49 | 22°37 | 6°56 | 26°57 | 21°45 | 13° 6 | 13° 8 | 10°55 | 12°12 | 17°15 | n.a. | T 28 |
| F 29 | 4 19 42 | 4°49'29 | 5♑36 | 3°32 | 7° 4 | 22°36 | 7° 9 | 26°53 | 21°43 | 13° 5 | 13° 6 | 10°49 | 12° 9 | 17°22 | n.a. | F 29 |
| S 30 | 4 23 38 | 5♐50'46 | 20♑26 | 5♐ 8 | 8♐20 | 22♋33 | 7♏22 | 26♊49 | 21♋42 | 13♋ 4 | 13♊ 5 | 10♒44 | 12♒ 6 | 17♊29 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 13s46 | 27s21 | 3s41 | 6s27 | 1n39 | 11s30 | 0n46 | 24n13 | 1n53 | 11s 6 | 0n55 | 23n 7 | 0s35 | 22n25 | 0n34 | 22n45 | 0s15 | 19n37 | 3s 6 | 16s51 | 16s55 | 27n10 | | n.a. |
| S 2 | 14 6 | 25 56 | 2 43 | 7 7 | 1 33 | 11 59 | 0 44 | 24 12 | 1 55 | 11 11 | 0 55 | 23 7 | 0 35 | 22 25 | 0 34 | 22 45 | 0 15 | 19 37 | 3 6 | 16 52 | 16 56 | 27 10 | | n.a. |
| S 3 | 14 26 | 22 52 | 1 36 | 7 46 | 1 27 | 12 26 | 0 42 | 24 12 | 1 58 | 11 16 | 0 55 | 23 7 | 0 35 | 22 25 | 0 34 | 22 45 | 0 15 | 19 36 | 3 6 | 16 53 | 16 57 | 27 10 | | n.a. |
| M 4 | 14 46 | 18 34 | 0 24 | 8 26 | 1 20 | 12 54 | 0 40 | 24 12 | 2 0 | 11 20 | 0 55 | 23 7 | 0 35 | 22 25 | 0 34 | 22 46 | 0 15 | 19 36 | 3 6 | 16 53 | 16 58 | 27 11 | | n.a. |
| T 5 | 15 5 | 13 24 | 0n46 | 9 5 | 1 13 | 13 21 | 0 38 | 24 12 | 2 2 | 11 25 | 0 55 | 23 7 | 0 35 | 22 25 | 0 34 | 22 46 | 0 15 | 19 36 | 3 6 | 16 53 | 16 59 | 27 11 | | n.a. |
| W 6 | 15 25 | 7 46 | 1 53 | 9 44 | 1 7 | 13 48 | 0 36 | 24 12 | 2 4 | 11 30 | 0 54 | 23 7 | 0 35 | 22 26 | 0 34 | 22 46 | 0 15 | 19 36 | 3 6 | 16 53 | 16 59 | 27 11 | | n.a. |
| T 7 | 15 44 | 1 54 | 2 53 | 10 24 | 1 0 | 14 14 | 0 34 | 24 12 | 2 6 | 11 34 | 0 54 | 23 7 | 0 35 | 22 26 | 0 34 | 22 46 | 0 15 | 19 36 | 3 6 | 16 54 | 17 0 | 27 12 | | n.a. |
| F 8 | 16 2 | 3n55 | 3 43 | 11 3 | 0 53 | 14 41 | 0 32 | 24 13 | 2 9 | 11 39 | 0 54 | 23 7 | 0 34 | 22 26 | 0 34 | 22 46 | 0 15 | 19 36 | 3 6 | 16 56 | 17 1 | 27 12 | | n.a. |
| S 9 | 16 21 | 9 30 | 4 21 | 11 41 | 0 46 | 15 6 | 0 29 | 24 13 | 2 11 | 11 44 | 0 54 | 23 7 | 0 34 | 22 26 | 0 34 | 22 46 | 0 15 | 19 36 | 3 6 | 16 59 | 17 2 | 27 12 | | n.a. |
| S 10 | 16 39 | 14 38 | 4 46 | 12 19 | 0 39 | 15 32 | 0 27 | 24 13 | 2 13 | 11 48 | 0 54 | 23 7 | 0 34 | 22 26 | 0 34 | 22 46 | 0 15 | 19 36 | 3 6 | 17 2 | 17 3 | 27 13 | | n.a. |
| M11 | 16 57 | 19 8 | 4 58 | 12 57 | 0 32 | 15 57 | 0 25 | 24 14 | 2 15 | 11 53 | 0 54 | 23 7 | 0 34 | 22 26 | 0 34 | 22 46 | 0 15 | 19 36 | 3 6 | 17 6 | 17 4 | 27 13 | | n.a. |
| T 12 | 17 14 | 22 48 | 4 57 | 13 35 | 0 25 | 16 21 | 0 22 | 24 15 | 2 18 | 11 58 | 0 54 | 23 7 | 0 34 | 22 26 | 0 34 | 22 46 | 0 15 | 19 35 | 3 6 | 17 11 | 17 5 | 27 13 | | n.a. |
| W13 | 17 31 | 25 28 | 4 42 | 14 12 | 0 19 | 16 45 | 0 20 | 24 15 | 2 20 | 12 2 | 0 54 | 23 7 | 0 34 | 22 26 | 0 34 | 22 46 | 0 15 | 19 35 | 3 6 | 17 15 | 17 6 | 27 14 | | n.a. |
| T 14 | 17 48 | 26 59 | 4 15 | 14 48 | 0 12 | 17 9 | 0 18 | 24 16 | 2 22 | 12 7 | 0 54 | 23 7 | 0 34 | 22 27 | 0 34 | 22 46 | 0 15 | 19 35 | 3 6 | 17 18 | 17 7 | 27 14 | | n.a. |
| F 15 | 18 5 | 27 15 | 3 36 | 15 24 | 0 5 | 17 32 | 0 15 | 24 17 | 2 25 | 12 11 | 0 54 | 23 7 | 0 34 | 22 27 | 0 34 | 22 46 | 0 15 | 19 35 | 3 6 | 17 21 | 17 8 | 27 14 | | n.a. |
| S 16 | 18 21 | 26 16 | 2 49 | 15 59 | 0s 2 | 17 55 | 0 13 | 24 18 | 2 27 | 12 16 | 0 54 | 23 7 | 0 34 | 22 27 | 0 34 | 22 46 | 0 15 | 19 35 | 3 6 | 17 23 | 17 9 | 27 14 | | n.a. |
| S 17 | 18 37 | 24 6 | 1 54 | 16 34 | 0 9 | 18 17 | 0 11 | 24 20 | 2 30 | 12 20 | 0 54 | 23 7 | 0 34 | 22 27 | 0 34 | 22 47 | 0 15 | 19 35 | 3 6 | 17 25 | 17 10 | 27 15 | | n.a. |
| M18 | 18 53 | 20 51 | 0 53 | 17 7 | 0 15 | 18 39 | 0 8 | 24 21 | 2 32 | 12 25 | 0 54 | 23 7 | 0 34 | 22 27 | 0 34 | 22 47 | 0 15 | 19 35 | 3 6 | 17 25 | 17 10 | 27 15 | | n.a. |
| T 19 | 19 8 | 16 40 | 0s11 | 17 40 | 0 22 | 19 0 | 0 6 | 24 23 | 2 35 | 12 29 | 0 54 | 23 7 | 0 34 | 22 27 | 0 34 | 22 47 | 0 15 | 19 35 | 3 6 | 17 25 | 17 11 | 27 15 | | n.a. |
| W20 | 19 23 | 11 42 | 1 16 | 18 13 | 0 28 | 19 21 | 0 4 | 24 24 | 2 37 | 12 33 | 0 54 | 23 7 | 0 34 | 22 28 | 0 34 | 22 47 | 0 15 | 19 35 | 3 6 | 17 25 | 17 12 | 27 15 | | n.a. |
| T 21 | 19 37 | 6 7 | 2 19 | 18 44 | 0 35 | 19 41 | 0 1 | 24 26 | 2 40 | 12 38 | 0 54 | 23 7 | 0 34 | 22 28 | 0 34 | 22 47 | 0 15 | 19 34 | 3 6 | 17 26 | 17 13 | 27 16 | | n.a. |
| F 22 | 19 52 | 0 6 | 3 17 | 19 15 | 0 41 | 20 1 | 0s 1 | 24 28 | 2 42 | 12 42 | 0 54 | 23 7 | 0 34 | 22 28 | 0 34 | 22 47 | 0 15 | 19 34 | 3 5 | 17 26 | 17 14 | 27 16 | | n.a. |
| S 23 | 20 5 | 6s 8 | 4 6 | 19 45 | 0 47 | 20 20 | 0 3 | 24 30 | 2 45 | 12 47 | 0 54 | 23 7 | 0 33 | 22 28 | 0 34 | 22 47 | 0 15 | 19 34 | 3 5 | 17 28 | 17 15 | 27 16 | | n.a. |
| S 24 | 20 19 | 12 18 | 4 41 | 20 14 | 0 53 | 20 38 | 0 6 | 24 32 | 2 47 | 12 51 | 0 54 | 23 7 | 0 33 | 22 29 | 0 34 | 22 47 | 0 15 | 19 34 | 3 5 | 17 30 | 17 16 | 27 16 | | n.a. |
| M25 | 20 32 | 17 58 | 5 0 | 20 42 | 0 59 | 20 56 | 0 8 | 24 34 | 2 50 | 12 55 | 0 54 | 23 7 | 0 33 | 22 29 | 0 34 | 22 47 | 0 15 | 19 34 | 3 5 | 17 32 | 17 17 | 27 16 | | n.a. |
| T 26 | 20 45 | 22 41 | 4 59 | 21 9 | 1 4 | 21 13 | 0 11 | 24 37 | 2 53 | 12 59 | 0 54 | 23 7 | 0 33 | 22 29 | 0 34 | 22 48 | 0 15 | 19 34 | 3 5 | 17 35 | 17 18 | 27 17 | | n.a. |
| W27 | 20 57 | 25 55 | 4 36 | 21 35 | 1 10 | 21 30 | 0 13 | 24 39 | 2 55 | 13 4 | 0 54 | 23 7 | 0 33 | 22 29 | 0 34 | 22 48 | 0 15 | 19 34 | 3 5 | 17 38 | 17 19 | 27 17 | | n.a. |
| T 28 | 21 9 | 27 14 | 3 54 | 22 0 | 1 15 | 21 46 | 0 15 | 24 42 | 2 58 | 13 8 | 0 54 | 23 7 | 0 33 | 22 30 | 0 34 | 22 48 | 0 15 | 19 34 | 3 5 | 17 41 | 17 19 | 27 17 | | n.a. |
| F 29 | 21 20 | 26 30 | 2 55 | 22 24 | 1 20 | 22 1 | 0 18 | 24 45 | 3 0 | 13 12 | 0 54 | 23 7 | 0 33 | 22 30 | 0 35 | 22 48 | 0 15 | 19 34 | 3 5 | 17 43 | 17 20 | 27 17 | | n.a. |
| S 30 | 21s31 | 23s52 | 1s46 | 22s47 | 1s25 | 22s16 | 0s20 | 24n48 | 3n 3 | 13s16 | 0n54 | 23n 7 | 0s33 | 22n30 | 0n35 | 22n48 | 0s15 | 19n34 | 3s 5 | 17s44 | 17s21 | 27n17 | | n.a. |

Julian Day Number = 1700177.5, Delta T = 03h05m59s
Ecliptic obliquity = 23°42'14, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°52'00, Lahiri = - 4°45'00 Julian Calendar 1 Nov. 59 BCE == Greg. Calendar 30 Oct. 059 BCE

The year -58 astronomical counting style corresponds to year 059 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 59 BCE
# geocentric

## DECEMBER 59 BCE (-58) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 4 27 35 | 6♐52'02 | 4♒51 | 6♐44 | 9♐35 | 22°R30 | 7♏34 | 26°R44 | 21°R40 | 13°R 2 | 13°R 4 | 10°D43 | 12♒ 3 | 17♊35 | n.a. | S 1 |
| M 2 | 4 31 31 | 7°53'19 | 18°50 | 8°20 | 10°51 | 22♋25 | 7°47 | 26♊40 | 21♋38 | 13♋ 1 | 13♊ 3 | 10♒43 | 12° 0 | 17°42 | n.a. | M 2 |
| T 3 | 4 35 28 | 8°54'34 | 2♓23 | 9°57 | 12° 6 | 22°20 | 7°59 | 26°35 | 21°37 | 13° 0 | 13° 1 | 10°R43 | 11°56 | 17°49 | n.a. | T 3 |
| W 4 | 4 39 24 | 9°55'50 | 15°32 | 11°34 | 13°22 | 22°14 | 8°12 | 26°30 | 21°35 | 12°58 | 13° 0 | 10°43 | 11°53 | 17°55 | n.a. | W 4 |
| T 5 | 4 43 21 | 10°57'05 | 28°20 | 13°11 | 14°37 | 22° 8 | 8°24 | 26°26 | 21°33 | 12°57 | 12°59 | 10°42 | 11°50 | 18° 2 | n.a. | T 5 |
| F 6 | 4 47 18 | 11°58'19 | 10♈52 | 14°49 | 15°53 | 22° 0 | 8°37 | 26°21 | 21°31 | 12°56 | 12°58 | 10°38 | 11°47 | 18° 9 | n.a. | F 6 |
| S 7 | 4 51 14 | 12°59'33 | 23°11 | 16°27 | 17° 8 | 21°52 | 8°49 | 26°16 | 21°30 | 12°54 | 12°57 | 10°31 | 11°44 | 18°15 | n.a. | S 7 |
| S 8 | 4 55 11 | 14° 0'47 | 5♉20 | 18° 5 | 18°23 | 21°43 | 9° 1 | 26°12 | 21°28 | 12°53 | 12°55 | 10°22 | 11°41 | 18°22 | n.a. | S 8 |
| M 9 | 4 59 7 | 15° 2'01 | 17°22 | 19°44 | 19°39 | 21°33 | 9°13 | 26° 7 | 21°26 | 12°51 | 12°54 | 10°12 | 11°37 | 18°29 | n.a. | M 9 |
| T 10 | 5 3 4 | 16° 3'14 | 29°19 | 21°23 | 20°54 | 21°22 | 9°25 | 26° 2 | 21°24 | 12°50 | 12°53 | 10° 0 | 11°34 | 18°36 | n.a. | T 10 |
| W11 | 5 7 0 | 17° 4'26 | 11♊12 | 23° 3 | 22°10 | 21°11 | 9°37 | 25°57 | 21°22 | 12°48 | 12°52 | 9°50 | 11°31 | 18°42 | n.a. | W11 |
| T 12 | 5 10 57 | 18° 5'39 | 23° 3 | 24°42 | 23°25 | 20°59 | 9°49 | 25°52 | 21°20 | 12°47 | 12°50 | 9°40 | 11°28 | 18°49 | n.a. | T 12 |
| F 13 | 5 14 54 | 19° 6'50 | 4♋53 | 26°23 | 24°40 | 20°46 | 10° 1 | 25°47 | 21°18 | 12°45 | 12°49 | 9°32 | 11°25 | 18°56 | n.a. | F 13 |
| S 14 | 5 18 50 | 20° 8'02 | 16°45 | 28° 3 | 25°56 | 20°32 | 10°13 | 25°42 | 21°16 | 12°44 | 12°48 | 9°27 | 11°22 | 19° 2 | n.a. | S 14 |
| S 15 | 5 22 47 | 21° 9'13 | 28°40 | 29°43 | 27°11 | 20°17 | 10°25 | 25°37 | 21°14 | 12°42 | 12°47 | 9°24 | 11°18 | 19° 9 | n.a. | S 15 |
| M16 | 5 26 43 | 22°10'24 | 10♌41 | 1♎24 | 28°26 | 20° 2 | 10°37 | 25°33 | 21°11 | 12°41 | 12°45 | 9°D23 | 11°15 | 19°16 | n.a. | M16 |
| T 17 | 5 30 40 | 23°11'34 | 22°53 | 3° 5 | 29°42 | 19°46 | 10°48 | 25°28 | 21° 9 | 12°39 | 12°44 | 9°24 | 11°12 | 19°22 | n.a. | T 17 |
| W18 | 5 34 36 | 24°12'44 | 5♍18 | 4°46 | 0♎57 | 19°29 | 11° 0 | 25°23 | 21° 7 | 12°38 | 12°43 | 9°26 | 11° 9 | 19°29 | n.a. | W18 |
| T 19 | 5 38 33 | 25°13'54 | 18° 1 | 6°27 | 2°12 | 19°12 | 11°11 | 25°18 | 21° 5 | 12°36 | 12°42 | 9°27 | 11° 6 | 19°36 | n.a. | T 19 |
| F 20 | 5 42 29 | 26°15'03 | 1♏ 7 | 8° 8 | 3°28 | 18°53 | 11°23 | 25°13 | 21° 2 | 12°34 | 12°40 | 9°R27 | 11° 2 | 19°42 | n.a. | F 20 |
| S 21 | 5 46 26 | 27°16'12 | 14°39 | 9°48 | 4°43 | 18°35 | 11°34 | 25° 8 | 21° 0 | 12°33 | 12°39 | 9°25 | 10°59 | 19°49 | n.a. | S 21 |
| S 22 | 5 50 23 | 28°17'20 | 28°39 | 11°28 | 5°58 | 18°15 | 11°45 | 25° 3 | 20°58 | 12°31 | 12°38 | 9°22 | 10°56 | 19°56 | n.a. | S 22 |
| M23 | 5 54 19 | 29°18'28 | 13♏ 6 | 13° 8 | 7°14 | 17°55 | 11°56 | 24°58 | 20°55 | 12°30 | 12°37 | 9°17 | 10°53 | 20° 3 | n.a. | M23 |
| T 24 | 5 58 16 | 0♎19'35 | 27°58 | 14°46 | 8°29 | 17°35 | 12° 7 | 24°53 | 20°53 | 12°28 | 12°36 | 9°11 | 10°50 | 20° 9 | n.a. | T 24 |
| W25 | 6 2 12 | 1°20'42 | 13♐ 6 | 16°23 | 9°44 | 17°14 | 12°18 | 24°48 | 20°51 | 12°26 | 12°35 | 9° 5 | 10°47 | 20°16 | n.a. | W25 |
| T 26 | 6 6 9 | 2°21'48 | 28°23 | 17°59 | 10°59 | 16°52 | 12°29 | 24°43 | 20°48 | 12°25 | 12°33 | 9° 0 | 10°43 | 20°23 | n.a. | T 26 |
| F 27 | 6 10 5 | 3°22'53 | 13♎36 | 19°33 | 12°15 | 16°30 | 12°40 | 24°38 | 20°46 | 12°23 | 12°32 | 8°56 | 10°40 | 20°29 | n.a. | F 27 |
| S 28 | 6 14 2 | 4°23'57 | 28°36 | 21° 4 | 13°30 | 16° 8 | 12°51 | 24°33 | 20°43 | 12°21 | 12°31 | 8°54 | 10°37 | 20°36 | n.a. | S 28 |
| S 29 | 6 17 59 | 5°25'00 | 13♒15 | 22°33 | 14°45 | 15°45 | 13° 1 | 24°28 | 20°41 | 12°20 | 12°30 | 8°D54 | 10°34 | 20°43 | n.a. | S 29 |
| M30 | 6 21 55 | 6°26'01 | 27°28 | 23°58 | 16° 0 | 15°22 | 13°12 | 24°24 | 20°38 | 12°18 | 12°29 | 8°55 | 10°31 | 20°49 | n.a. | M30 |
| T 31 | 6 25 52 | 7♎27'01 | 11♓13 | 25♎19 | 17♎16 | 14♋59 | 13♏22 | 24♊19 | 20♋36 | 12♋16 | 12♊28 | 8♒56 | 10♒28 | 20♊56 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| S 1 | 21 s42 | 19 s46 | 0 s31 | 23 s 9 | 1 s30 | 22 s30 | 0 s22 | 24n51 | 3n 6 | 13 s20 | 0n54 | 23n 7 | 0 s33 | 22n30 | 0n35 | 22n48 | 0 s15 | 19n33 | 3 s 5 | 17 s44 | 17 s22 | 27n17 | | | n.a. |
| M 2 | 21 52 | 14 40 | 0n43 | 23 29 | 1 34 | 22 43 | 0 25 | 24 55 | 3 8 | 13 24 | 0 54 | 23 7 | 0 33 | 22 31 | 0 35 | 22 48 | 0 15 | 19 33 | 3 5 | 17 44 | 17 23 | 27 17 | | | n.a. |
| T 3 | 22 2 | 8 59 | 1 53 | 23 49 | 1 39 | 22 56 | 0 27 | 24 58 | 3 11 | 13 29 | 0 54 | 23 7 | 0 33 | 22 31 | 0 35 | 22 48 | 0 15 | 19 33 | 3 5 | 17 44 | 17 24 | 27 18 | | | n.a. |
| W 4 | 22 11 | 3 5 | 2 55 | 24 7 | 1 43 | 23 8 | 0 29 | 25 2 | 3 14 | 13 33 | 0 54 | 23 7 | 0 33 | 22 31 | 0 35 | 22 49 | 0 15 | 19 33 | 3 5 | 17 44 | 17 25 | 27 18 | | | n.a. |
| T 5 | 22 20 | 2n47 | 3 46 | 24 23 | 1 46 | 23 19 | 0 31 | 25 5 | 3 16 | 13 37 | 0 54 | 23 7 | 0 32 | 22 32 | 0 35 | 22 49 | 0 15 | 19 33 | 3 5 | 17 45 | 17 26 | 27 18 | | | n.a. |
| F 6 | 22 28 | 8 24 | 4 25 | 24 39 | 1 50 | 23 30 | 0 34 | 25 9 | 3 19 | 13 41 | 0 54 | 23 7 | 0 32 | 22 32 | 0 35 | 22 49 | 0 15 | 19 33 | 3 5 | 17 46 | 17 27 | 27 18 | | | n.a. |
| S 7 | 22 36 | 13 36 | 4 51 | 24 53 | 1 53 | 23 40 | 0 36 | 25 13 | 3 22 | 13 45 | 0 54 | 23 7 | 0 32 | 22 32 | 0 35 | 22 49 | 0 15 | 19 33 | 3 5 | 17 48 | 17 28 | 27 18 | | | n.a. |
| S 8 | 22 44 | 18 12 | 5 3 | 25 5 | 1 56 | 23 49 | 0 38 | 25 17 | 3 24 | 13 48 | 0 54 | 23 7 | 0 32 | 22 33 | 0 35 | 22 49 | 0 15 | 19 33 | 3 5 | 17 50 | 17 28 | 27 18 | | | n.a. |
| M 9 | 22 51 | 22 1 | 5 2 | 25 16 | 1 58 | 23 58 | 0 40 | 25 22 | 3 27 | 13 52 | 0 54 | 23 7 | 0 32 | 22 33 | 0 35 | 22 49 | 0 15 | 19 33 | 3 5 | 17 53 | 17 29 | 27 18 | | | n.a. |
| T 10 | 22 58 | 24 54 | 4 48 | 25 25 | 2 0 | 24 5 | 0 42 | 25 26 | 3 29 | 13 56 | 0 54 | 23 7 | 0 32 | 22 33 | 0 35 | 22 49 | 0 15 | 19 33 | 3 5 | 17 56 | 17 30 | 27 18 | | | n.a. |
| W11 | 23 4 | 26 40 | 4 21 | 25 33 | 2 2 | 24 12 | 0 44 | 25 30 | 3 32 | 14 0 | 0 54 | 23 7 | 0 32 | 22 34 | 0 35 | 22 50 | 0 15 | 19 32 | 3 5 | 17 59 | 17 31 | 27 18 | | | n.a. |
| T 12 | 23 10 | 27 13 | 3 43 | 25 39 | 2 4 | 24 19 | 0 46 | 25 35 | 3 35 | 14 4 | 0 54 | 23 7 | 0 32 | 22 34 | 0 35 | 22 50 | 0 15 | 19 32 | 3 4 | 18 2 | 17 32 | 27 18 | | | n.a. |
| F 13 | 23 15 | 26 31 | 2 55 | 25 44 | 2 4 | 24 24 | 0 48 | 25 39 | 3 37 | 14 8 | 0 54 | 23 6 | 0 32 | 22 34 | 0 35 | 22 50 | 0 15 | 19 32 | 3 4 | 18 4 | 17 33 | 27 18 | | | n.a. |
| S 14 | 23 20 | 24 36 | 1 59 | 25 46 | 2 5 | 24 29 | 0 50 | 25 44 | 3 40 | 14 11 | 0 54 | 23 6 | 0 32 | 22 35 | 0 35 | 22 50 | 0 15 | 19 32 | 3 4 | 18 5 | 17 34 | 27 18 | | | n.a. |
| S 15 | 23 24 | 21 36 | 0 58 | 25 47 | 2 5 | 24 33 | 0 52 | 25 48 | 3 42 | 14 15 | 0 54 | 23 6 | 0 31 | 22 35 | 0 35 | 22 50 | 0 15 | 19 32 | 3 4 | 18 6 | 17 35 | 27 18 | | | n.a. |
| M16 | 23 28 | 17 38 | 0 s 7 | 25 46 | 2 5 | 24 36 | 0 54 | 25 53 | 3 44 | 14 19 | 0 54 | 23 6 | 0 31 | 22 35 | 0 35 | 22 50 | 0 15 | 19 32 | 3 4 | 18 6 | 17 35 | 27 18 | | | n.a. |
| T 17 | 23 32 | 12 54 | 1 12 | 25 44 | 2 4 | 24 38 | 0 56 | 25 58 | 3 47 | 14 22 | 0 54 | 23 6 | 0 31 | 22 36 | 0 35 | 22 51 | 0 15 | 19 32 | 3 4 | 18 6 | 17 36 | 27 19 | | | n.a. |
| W18 | 23 35 | 7 34 | 2 16 | 25 39 | 2 2 | 24 40 | 0 58 | 26 3 | 3 49 | 14 26 | 0 54 | 23 6 | 0 31 | 22 36 | 0 35 | 22 51 | 0 15 | 19 32 | 3 4 | 18 5 | 17 37 | 27 19 | | | n.a. |
| T 19 | 23 37 | 1 49 | 3 14 | 25 33 | 2 0 | 24 41 | 1 0 | 26 8 | 3 51 | 14 30 | 0 54 | 23 6 | 0 31 | 22 37 | 0 35 | 22 51 | 0 15 | 19 32 | 3 4 | 18 5 | 17 38 | 27 19 | | | n.a. |
| F 20 | 23 39 | 4 s10 | 4 4 | 25 25 | 1 58 | 24 41 | 1 2 | 26 12 | 3 53 | 14 33 | 0 54 | 23 6 | 0 31 | 22 37 | 0 35 | 22 51 | 0 15 | 19 32 | 3 4 | 18 5 | 17 39 | 27 19 | | | n.a. |
| S 21 | 23 41 | 10 9 | 4 42 | 25 14 | 1 55 | 24 40 | 1 3 | 26 17 | 3 56 | 14 37 | 0 54 | 23 6 | 0 31 | 22 37 | 0 35 | 22 51 | 0 15 | 19 32 | 3 4 | 18 5 | 17 40 | 27 18 | | | n.a. |
| S 22 | 23 42 | 15 51 | 5 5 | 25 2 | 1 51 | 24 39 | 1 5 | 26 22 | 3 58 | 14 40 | 0 54 | 23 6 | 0 31 | 22 38 | 0 35 | 22 51 | 0 15 | 19 32 | 3 4 | 18 6 | 17 41 | 27 18 | | | n.a. |
| M23 | 23 42 | 20 51 | 5 9 | 24 48 | 1 46 | 24 37 | 1 7 | 26 27 | 4 0 | 14 43 | 0 54 | 23 6 | 0 31 | 22 38 | 0 35 | 22 52 | 0 15 | 19 31 | 3 4 | 18 8 | 17 42 | 27 18 | | | n.a. |
| T 24 | 23 42 | 24 41 | 4 54 | 24 33 | 1 41 | 24 34 | 1 8 | 26 31 | 4 2 | 14 47 | 0 54 | 23 6 | 0 30 | 22 38 | 0 35 | 22 52 | 0 15 | 19 31 | 3 4 | 18 9 | 17 43 | 27 18 | | | n.a. |
| W25 | 23 42 | 26 53 | 4 18 | 24 15 | 1 34 | 24 30 | 1 10 | 26 36 | 4 3 | 14 50 | 0 54 | 23 6 | 0 30 | 22 39 | 0 35 | 22 52 | 0 15 | 19 31 | 3 3 | 18 11 | 17 43 | 27 18 | | | n.a. |
| T 26 | 23 41 | 27 4 | 3 23 | 23 56 | 1 28 | 24 25 | 1 11 | 26 41 | 4 5 | 14 53 | 0 54 | 23 6 | 0 30 | 22 39 | 0 35 | 22 52 | 0 15 | 19 31 | 3 3 | 18 12 | 17 44 | 27 18 | | | n.a. |
| F 27 | 23 40 | 25 13 | 2 14 | 23 35 | 1 20 | 24 20 | 1 13 | 26 45 | 4 7 | 14 57 | 0 55 | 23 6 | 0 30 | 22 40 | 0 35 | 22 52 | 0 15 | 19 31 | 3 3 | 18 13 | 17 45 | 27 18 | | | n.a. |
| S 28 | 23 38 | 21 35 | 0 56 | 23 12 | 1 11 | 24 14 | 1 14 | 26 50 | 4 9 | 15 0 | 0 55 | 23 5 | 0 30 | 22 40 | 0 35 | 22 52 | 0 15 | 19 31 | 3 3 | 18 14 | 17 46 | 27 18 | | | n.a. |
| S 29 | 23 35 | 16 39 | 0n24 | 22 48 | 1 2 | 24 7 | 1 15 | 26 54 | 4 10 | 15 3 | 0 55 | 23 5 | 0 30 | 22 40 | 0 35 | 22 53 | 0 15 | 19 31 | 3 3 | 18 14 | 17 47 | 27 18 | | | n.a. |
| M30 | 23 33 | 10 55 | 1 40 | 22 23 | 0 51 | 24 0 | 1 17 | 26 58 | 4 12 | 15 6 | 0 55 | 23 5 | 0 30 | 22 41 | 0 35 | 22 53 | 0 15 | 19 31 | 3 3 | 18 14 | 17 48 | 27 18 | | | n.a. |
| T 31 | 23 s29 | 4 s51 | 2n48 | 21 s57 | 0 s40 | 23 s52 | 1 s18 | 27n 2 | 4n13 | 15 s 9 | 0n55 | 23n 5 | 0 s30 | 22n41 | 0n35 | 22n53 | 0 s15 | 19n31 | 3 s 3 | 18 s13 | 17 s49 | 27n18 | | | n.a. |

Julian Day Number = 1700207.5, Delta T = 03h05m58s
Ecliptic obliquity = 23°42'13, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°51'56, Lahiri = - 4°44'56 Julian Calendar 1 Dec. 59 BCE == Greg. Calendar 29 Nov. 059 BCE

The year -58 astronomical counting style corresponds to year 059 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 58 BCE
# geocentric

## JANUARY 58 BCE (-57) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 6 29 48 | 8♉28'00 | 24♓31 | 26♉35 | 18♉31 | 14°R35 | 13♏33 | 24°R14 | 20°R33 | 12°R15 | 12°R27 | 8♒58 | 10♒24 | 21♊ 3 | n.a. | W 1 |
| T 2 | 6 33 45 | 9°28'57 | 7♈25 | 27°46 | 19°46 | 14♋11 | 13°43 | 24♊ 9 | 20♋31 | 12♋13 | 12♊25 | 8°R58 | 10°21 | 21° 9 | n.a. | T 2 |
| F 3 | 6 37 41 | 10°29'53 | 19°58 | 28°51 | 21° 1 | 13°47 | 13°53 | 24° 5 | 20°28 | 12°11 | 12°24 | 8°58 | 10°18 | 21°16 | n.a. | F 3 |
| S 4 | 6 41 38 | 11°30'47 | 2♉15 | 29°49 | 22°16 | 13°23 | 14° 3 | 24° 0 | 20°26 | 12°10 | 12°23 | 8°56 | 10°15 | 21°23 | n.a. | S 4 |
| S 5 | 6 45 34 | 12°31'40 | 14°19 | 0♒39 | 23°31 | 12°59 | 14°13 | 23°56 | 20°23 | 12° 8 | 12°22 | 8°53 | 10°12 | 21°30 | n.a. | S 5 |
| M 6 | 6 49 31 | 13°32'31 | 26°16 | 1°21 | 24°46 | 12°35 | 14°23 | 23°51 | 20°20 | 12° 6 | 12°21 | 8°49 | 10° 8 | 21°36 | n.a. | M 6 |
| T 7 | 6 53 28 | 14°33'21 | 8♊ 8 | 1°53 | 26° 1 | 12°11 | 14°33 | 23°47 | 20°18 | 12° 4 | 12°20 | 8°45 | 10° 5 | 21°43 | n.a. | T 7 |
| W 8 | 6 57 24 | 15°34'10 | 19°58 | 2°15 | 27°16 | 11°48 | 14°42 | 23°42 | 20°15 | 12° 3 | 12°19 | 8°41 | 10° 2 | 21°50 | n.a. | W 8 |
| T 9 | 7 1 21 | 16°34'57 | 1♋48 | 2°27 | 28°31 | 11°24 | 14°52 | 23°38 | 20°13 | 12° 1 | 12°18 | 8°37 | 9°59 | 21°56 | n.a. | T 9 |
| F 10 | 7 5 17 | 17°35'42 | 13°42 | 2°R28 | 29°46 | 11° 0 | 15° 1 | 23°33 | 20°10 | 11°59 | 12°17 | 8°34 | 9°56 | 22° 3 | n.a. | F 10 |
| S 11 | 7 9 14 | 18°36'26 | 25°40 | 2°18 | 1♒ 1 | 10°37 | 15°10 | 23°29 | 20° 7 | 11°58 | 12°16 | 8°32 | 9°53 | 22°10 | n.a. | S 11 |
| S 12 | 7 13 10 | 19°37'09 | 7♌44 | 1°57 | 2°16 | 10°14 | 15°19 | 23°25 | 20° 5 | 11°56 | 12°15 | 8°D32 | 9°49 | 22°16 | n.a. | S 12 |
| M13 | 7 17 7 | 20°37'50 | 19°57 | 1°26 | 3°31 | 9°51 | 15°28 | 23°21 | 20° 2 | 11°54 | 12°14 | 8°32 | 9°46 | 22°23 | n.a. | M13 |
| T 14 | 7 21 3 | 21°38'30 | 2♍20 | 0°46 | 4°46 | 9°29 | 15°37 | 23°17 | 19°59 | 11°53 | 12°13 | 8°33 | 9°43 | 22°30 | n.a. | T 14 |
| W15 | 7 25 0 | 22°39'08 | 14°56 | 29♉57 | 6° 1 | 9° 7 | 15°46 | 23°13 | 19°57 | 11°51 | 12°12 | 8°35 | 9°40 | 22°36 | n.a. | W15 |
| T 16 | 7 28 57 | 23°39'45 | 27°47 | 29° 0 | 7°16 | 8°45 | 15°55 | 23° 9 | 19°54 | 11°49 | 12°11 | 8°36 | 9°37 | 22°43 | n.a. | T 16 |
| F 17 | 7 32 53 | 24°40'20 | 10♎55 | 27°58 | 8°31 | 8°24 | 16° 3 | 23° 5 | 19°52 | 11°48 | 12°11 | 8°37 | 9°34 | 22°50 | n.a. | F 17 |
| S 18 | 7 36 50 | 25°40'55 | 24°23 | 26°52 | 9°46 | 8° 3 | 16°12 | 23° 1 | 19°49 | 11°46 | 12°10 | 8°R37 | 9°30 | 22°57 | n.a. | S 18 |
| S 19 | 7 40 46 | 26°41'28 | 8♏13 | 25°44 | 11° 0 | 7°43 | 16°20 | 22°58 | 19°46 | 11°44 | 12° 9 | 8°37 | 9°27 | 23° 3 | n.a. | S 19 |
| M20 | 7 44 43 | 27°42'00 | 22°24 | 24°36 | 12°15 | 7°24 | 16°28 | 22°54 | 19°44 | 11°43 | 12° 8 | 8°36 | 9°24 | 23°10 | n.a. | M20 |
| T 21 | 7 48 39 | 28°42'30 | 6♐55 | 23°29 | 13°30 | 7° 5 | 16°36 | 22°50 | 19°41 | 11°41 | 12° 7 | 8°35 | 9°21 | 23°17 | n.a. | T 21 |
| W22 | 7 52 36 | 29°42'59 | 21°41 | 22°25 | 14°45 | 6°46 | 16°44 | 22°47 | 19°39 | 11°40 | 12° 6 | 8°34 | 9°18 | 23°23 | n.a. | W22 |
| T 23 | 7 56 32 | 0♒43'26 | 6♑38 | 21°25 | 16° 0 | 6°29 | 16°52 | 22°44 | 19°36 | 11°38 | 12° 6 | 8°33 | 9°14 | 23°30 | n.a. | T 23 |
| F 24 | 8 0 29 | 1°43'52 | 21°36 | 20°31 | 17°14 | 6°12 | 17° 0 | 22°40 | 19°33 | 11°36 | 12° 5 | 8°33 | 9°11 | 23°37 | n.a. | F 24 |
| S 25 | 8 4 26 | 2°44'16 | 6♒28 | 19°43 | 18°29 | 5°55 | 17° 7 | 22°37 | 19°31 | 11°35 | 12° 4 | 8°D32 | 9° 8 | 23°43 | n.a. | S 25 |
| S 26 | 8 8 22 | 3°44'38 | 21° 6 | 19° 2 | 19°44 | 5°40 | 17°15 | 22°34 | 19°28 | 11°33 | 12° 3 | 8°32 | 9° 5 | 23°50 | n.a. | S 26 |
| M27 | 8 12 19 | 4°44'58 | 5♓23 | 18°27 | 20°58 | 5°25 | 17°22 | 22°31 | 19°26 | 11°32 | 12° 3 | 8°33 | 9° 2 | 23°57 | n.a. | M27 |
| T 28 | 8 16 15 | 5°45'16 | 19°15 | 18° 0 | 22°13 | 5°11 | 17°29 | 22°28 | 19°23 | 11°30 | 12° 2 | 8°33 | 8°59 | 24° 3 | n.a. | T 28 |
| W29 | 8 20 12 | 6°45'32 | 2♈42 | 17°41 | 23°28 | 4°57 | 17°36 | 22°25 | 19°21 | 11°29 | 12° 1 | 8°33 | 8°55 | 24°10 | n.a. | W29 |
| T 30 | 8 24 8 | 7°45'46 | 15°43 | 17°28 | 24°42 | 4°45 | 17°43 | 22°22 | 19°18 | 11°27 | 12° 1 | 8°33 | 8°52 | 24°17 | n.a. | T 30 |
| F 31 | 8 28 5 | 8♒45'58 | 28♈22 | 17°D23 | 25♒57 | 4♋33 | 17♏49 | 22♊20 | 19♋16 | 11♋26 | 12♊ 0 | 8°R33 | 8♒49 | 24♊23 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| W 1 | 23 s26 | 1n13 | 3n44 | 21 s31 | 0 s27 | 23 s43 | 1 s19 | 27n 6 | 4n14 | 15 s13 | 0n55 | 23n 5 | 0 s30 | 22n42 | 0n35 | 22n53 | 0 s15 | 19n31 | 3 s 3 | 18 s13 | 17 s50 | 27n18 | | | n.a. |
| T 2 | 23 22 | 7 3 | 4 27 | 21 4 | 0 14 | 23 33 | 1 20 | 27 10 | 4 15 | 15 16 | 0 55 | 23 5 | 0 29 | 22 42 | 0 35 | 22 53 | 0 15 | 19 31 | 3 3 | 18 13 | 17 50 | 27 18 | | | n.a. |
| F 3 | 23 17 | 12 27 | 4 57 | 20 37 | 0n 0 | 23 23 | 1 21 | 27 14 | 4 16 | 15 19 | 0 55 | 23 5 | 0 29 | 22 42 | 0 35 | 22 53 | 0 15 | 19 31 | 3 3 | 18 13 | 17 51 | 27 18 | | | n.a. |
| S 4 | 23 12 | 17 15 | 5 11 | 20 10 | 0 15 | 23 11 | 1 22 | 27 17 | 4 17 | 15 22 | 0 55 | 23 5 | 0 29 | 22 43 | 0 35 | 22 54 | 0 15 | 19 31 | 3 3 | 18 13 | 17 52 | 27 17 | | | n.a. |
| S 5 | 23 6 | 21 16 | 5 12 | 19 44 | 0 31 | 23 0 | 1 23 | 27 20 | 4 18 | 15 24 | 0 55 | 23 5 | 0 29 | 22 43 | 0 35 | 22 54 | 0 15 | 19 31 | 3 3 | 18 14 | 17 53 | 27 17 | | | n.a. |
| M 6 | 23 0 | 24 22 | 4 59 | 19 19 | 0 47 | 22 47 | 1 24 | 27 24 | 4 19 | 15 27 | 0 55 | 23 5 | 0 29 | 22 44 | 0 35 | 22 54 | 0 15 | 19 31 | 3 2 | 18 15 | 17 54 | 27 17 | | | n.a. |
| T 7 | 22 54 | 26 24 | 4 34 | 18 55 | 1 4 | 22 34 | 1 25 | 27 26 | 4 19 | 15 30 | 0 55 | 23 5 | 0 29 | 22 44 | 0 35 | 22 54 | 0 15 | 19 31 | 3 2 | 18 16 | 17 55 | 27 17 | | | n.a. |
| W 8 | 22 47 | 27 15 | 3 56 | 18 33 | 1 22 | 22 20 | 1 25 | 27 29 | 4 20 | 15 33 | 0 55 | 23 5 | 0 29 | 22 44 | 0 35 | 22 54 | 0 15 | 19 31 | 3 2 | 18 17 | 17 56 | 27 17 | | | n.a. |
| T 9 | 22 40 | 26 50 | 3 9 | 18 13 | 1 39 | 22 5 | 1 26 | 27 32 | 4 20 | 15 36 | 0 55 | 23 4 | 0 28 | 22 45 | 0 35 | 22 54 | 0 15 | 19 31 | 3 2 | 18 18 | 17 56 | 27 17 | | | n.a. |
| F 10 | 22 32 | 25 11 | 2 13 | 17 56 | 1 57 | 21 50 | 1 27 | 27 34 | 4 21 | 15 38 | 0 55 | 23 4 | 0 28 | 22 45 | 0 35 | 22 55 | 0 15 | 19 31 | 3 2 | 18 19 | 17 57 | 27 17 | | | n.a. |
| S 11 | 22 24 | 22 24 | 1 10 | 17 41 | 2 14 | 21 34 | 1 27 | 27 36 | 4 21 | 15 41 | 0 55 | 23 4 | 0 28 | 22 46 | 0 35 | 22 55 | 0 15 | 19 30 | 3 2 | 18 20 | 17 58 | 27 16 | | | n.a. |
| S 12 | 22 15 | 18 36 | 0 4 | 17 30 | 2 31 | 21 18 | 1 28 | 27 38 | 4 21 | 15 44 | 0 55 | 23 4 | 0 28 | 22 46 | 0 35 | 22 55 | 0 15 | 19 30 | 3 2 | 18 20 | 17 59 | 27 16 | | | n.a. |
| M13 | 22 6 | 14 0 | 1 s 3 | 17 21 | 2 46 | 21 1 | 1 28 | 27 40 | 4 21 | 15 46 | 0 55 | 23 4 | 0 28 | 22 46 | 0 35 | 22 55 | 0 15 | 19 30 | 3 2 | 18 20 | 18 0 | 27 16 | | | n.a. |
| T 14 | 21 57 | 8 46 | 2 8 | 17 16 | 3 1 | 20 43 | 1 29 | 27 42 | 4 21 | 15 49 | 0 55 | 23 4 | 0 28 | 22 47 | 0 35 | 22 55 | 0 15 | 19 30 | 3 2 | 18 19 | 18 1 | 27 16 | | | n.a. |
| W15 | 21 47 | 3 7 | 3 8 | 17 14 | 3 14 | 20 25 | 1 29 | 27 43 | 4 21 | 15 51 | 0 55 | 23 4 | 0 28 | 22 47 | 0 35 | 22 55 | 0 15 | 19 30 | 3 1 | 18 19 | 18 2 | 27 16 | | | n.a. |
| T 16 | 21 36 | 2 s46 | 4 0 | 17 14 | 3 25 | 20 6 | 1 29 | 27 44 | 4 20 | 15 54 | 0 56 | 23 4 | 0 28 | 22 48 | 0 35 | 22 55 | 0 15 | 19 30 | 3 1 | 18 19 | 18 2 | 27 15 | | | n.a. |
| F 17 | 21 26 | 8 40 | 4 41 | 17 18 | 3 34 | 19 46 | 1 29 | 27 45 | 4 20 | 15 56 | 0 56 | 23 4 | 0 27 | 22 48 | 0 35 | 22 56 | 0 15 | 19 30 | 3 1 | 18 18 | 18 3 | 27 15 | | | n.a. |
| S 18 | 21 14 | 14 18 | 5 7 | 17 24 | 3 41 | 19 26 | 1 29 | 27 46 | 4 19 | 15 59 | 0 56 | 23 4 | 0 27 | 22 48 | 0 35 | 22 56 | 0 15 | 19 30 | 3 1 | 18 18 | 18 4 | 27 15 | | | n.a. |
| S 19 | 21 3 | 19 23 | 5 17 | 17 32 | 3 46 | 19 6 | 1 30 | 27 47 | 4 19 | 16 1 | 0 56 | 23 4 | 0 27 | 22 49 | 0 36 | 22 56 | 0 15 | 19 30 | 3 1 | 18 18 | 18 5 | 27 15 | | | n.a. |
| M20 | 20 51 | 23 31 | 5 8 | 17 42 | 3 48 | 18 44 | 1 30 | 27 47 | 4 18 | 16 3 | 0 56 | 23 4 | 0 27 | 22 49 | 0 36 | 22 56 | 0 15 | 19 30 | 3 1 | 18 19 | 18 6 | 27 14 | | | n.a. |
| T 21 | 20 39 | 26 17 | 4 39 | 17 53 | 3 48 | 18 23 | 1 29 | 27 48 | 4 17 | 16 6 | 0 56 | 23 4 | 0 27 | 22 50 | 0 36 | 22 56 | 0 15 | 19 30 | 3 1 | 18 19 | 18 7 | 27 14 | | | n.a. |
| W22 | 20 26 | 27 18 | 3 52 | 18 6 | 3 46 | 18 1 | 1 29 | 27 48 | 4 16 | 16 8 | 0 56 | 23 4 | 0 27 | 22 50 | 0 36 | 22 56 | 0 15 | 19 30 | 3 1 | 18 19 | 18 8 | 27 14 | | | n.a. |
| T 23 | 20 13 | 26 20 | 2 48 | 18 19 | 3 42 | 17 38 | 1 29 | 27 48 | 4 16 | 16 10 | 0 56 | 23 4 | 0 27 | 22 50 | 0 36 | 22 57 | 0 15 | 19 30 | 3 1 | 18 19 | 18 8 | 27 14 | | | n.a. |
| F 24 | 20 0 | 23 28 | 1 33 | 18 33 | 3 36 | 17 15 | 1 29 | 27 48 | 4 15 | 16 12 | 0 56 | 23 3 | 0 26 | 22 51 | 0 36 | 22 57 | 0 15 | 19 30 | 3 1 | 18 20 | 18 9 | 27 13 | | | n.a. |
| S 25 | 19 46 | 19 3 | 0 12 | 18 48 | 3 29 | 16 51 | 1 28 | 27 47 | 4 14 | 16 14 | 0 56 | 23 3 | 0 26 | 22 51 | 0 36 | 22 57 | 0 15 | 19 30 | 3 0 | 18 20 | 18 10 | 27 13 | | | n.a. |
| S 26 | 19 32 | 13 32 | 1n 9 | 19 2 | 3 20 | 16 27 | 1 28 | 27 47 | 4 12 | 16 16 | 0 56 | 23 3 | 0 26 | 22 51 | 0 36 | 22 57 | 0 15 | 19 30 | 3 0 | 18 20 | 18 11 | 27 13 | | | n.a. |
| M27 | 19 17 | 7 25 | 2 24 | 19 17 | 3 10 | 16 3 | 1 27 | 27 46 | 4 11 | 16 18 | 0 56 | 23 3 | 0 26 | 22 52 | 0 36 | 22 57 | 0 15 | 19 30 | 3 0 | 18 20 | 18 12 | 27 12 | | | n.a. |
| T 28 | 19 2 | 1 7 | 3 27 | 19 31 | 2 59 | 15 38 | 1 27 | 27 46 | 4 10 | 16 20 | 0 56 | 23 3 | 0 26 | 22 52 | 0 36 | 22 57 | 0 15 | 19 31 | 3 0 | 18 19 | 18 13 | 27 12 | | | n.a. |
| W29 | 18 47 | 5n 1 | 4 18 | 19 45 | 2 47 | 15 12 | 1 26 | 27 45 | 4 9 | 16 22 | 0 56 | 23 3 | 0 26 | 22 53 | 0 36 | 22 58 | 0 15 | 19 31 | 3 0 | 18 19 | 18 14 | 27 12 | | | n.a. |
| T 30 | 18 32 | 10 45 | 4 53 | 19 59 | 2 35 | 14 46 | 1 26 | 27 44 | 4 7 | 16 24 | 0 57 | 23 3 | 0 26 | 22 53 | 0 36 | 22 58 | 0 15 | 19 31 | 3 0 | 18 19 | 18 14 | 27 12 | | | n.a. |
| F 31 | 18 s16 | 15n52 | 5n13 | 20 s12 | 2n23 | 14 s20 | 1 s25 | 27n43 | 4n 6 | 16 s26 | 0n57 | 23n 3 | 0 s25 | 22n53 | 0n36 | 22n58 | 0 s15 | 19n31 | 3 s 0 | 18 s19 | 18 s15 | 27n11 | | | n.a. |

Julian Day Number = 1700238.5, Delta T = 03h05m57s
Ecliptic obliquity = 23°42'13, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°51'52, Lahiri = - 4°44'52 Julian Calendar 1 Jan. 58 BCE == Greg. Calendar 30 Dec. 059 BCE

The year -57 astronomical counting style corresponds to year 058 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 58 BCE
# geocentric

## FEBRUARY 58 BCE (-57) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 32 1 | 9♒46'08 | 10♉43 | 17♑24 | 27♒11 | 4°R22 | 17♏56 | 22°R17 | 19°R14 | 11°R24 | 12°R 0 | 8°D33 | 8♒46 | 24♊30 | n.a. | S 1 |
| S 2 | 8 35 58 | 10°46'15 | 22°48 | 17°31 | 28°26 | 4♋12 | 18° 2 | 22♊15 | 19♋11 | 11♋23 | 11♊59 | 8♒34 | 8°43 | 24°37 | n.a. | S 2 |
| M 3 | 8 39 55 | 11°46'20 | 4♊44 | 17°44 | 29°40 | 4° 2 | 18° 8 | 22°12 | 19° 9 | 11°22 | 11°58 | 8°34 | 8°40 | 24°43 | n.a. | M 3 |
| T 4 | 8 43 51 | 12°46'23 | 16°35 | 18° 3 | 0♓55 | 3°53 | 18°14 | 22°10 | 19° 7 | 11°20 | 11°58 | 8°34 | 8°36 | 24°50 | n.a. | T 4 |
| W 5 | 8 47 48 | 13°46'24 | 28°24 | 18°27 | 2° 9 | 3°46 | 18°20 | 22° 8 | 19° 4 | 11°19 | 11°57 | 8°35 | 8°33 | 24°57 | n.a. | W 5 |
| T 6 | 8 51 44 | 14°46'23 | 10♋16 | 18°56 | 3°23 | 3°38 | 18°26 | 22° 6 | 19° 2 | 11°17 | 11°57 | 8°35 | 8°30 | 25° 4 | n.a. | T 6 |
| F 7 | 8 55 41 | 15°46'19 | 22°14 | 19°30 | 4°38 | 3°32 | 18°31 | 22° 4 | 19° 0 | 11°16 | 11°56 | 8°36 | 8°27 | 25°10 | n.a. | F 7 |
| S 8 | 8 59 37 | 16°46'13 | 4♌21 | 20° 8 | 5°52 | 3°27 | 18°37 | 22° 2 | 18°57 | 11°15 | 11°56 | 8°R36 | 8°24 | 25°17 | n.a. | S 8 |
| S 9 | 9 3 34 | 17°46'06 | 16°38 | 20°50 | 7° 6 | 3°22 | 18°42 | 22° 0 | 18°55 | 11°13 | 11°56 | 8°36 | 8°20 | 25°24 | n.a. | S 9 |
| M10 | 9 7 30 | 18°45'56 | 29° 7 | 21°36 | 8°20 | 3°18 | 18°47 | 21°59 | 18°53 | 11°12 | 11°55 | 8°36 | 8°17 | 25°30 | n.a. | M10 |
| T 11 | 9 11 27 | 19°45'44 | 11♍49 | 22°25 | 9°35 | 3°15 | 18°52 | 21°57 | 18°51 | 11°11 | 11°55 | 8°34 | 8°14 | 25°37 | n.a. | T 11 |
| W12 | 9 15 24 | 20°45'30 | 24°44 | 23°17 | 10°49 | 3°12 | 18°57 | 21°56 | 18°49 | 11°10 | 11°54 | 8°33 | 8°11 | 25°44 | n.a. | W12 |
| T 13 | 9 19 20 | 21°45'14 | 7♎54 | 24°13 | 12° 3 | 3°11 | 19° 1 | 21°55 | 18°47 | 11° 8 | 11°54 | 8°31 | 8° 8 | 25°50 | n.a. | T 13 |
| F 14 | 9 23 17 | 22°44'56 | 21°17 | 25°11 | 13°17 | 3°10 | 19° 6 | 21°53 | 18°45 | 11° 7 | 11°54 | 8°29 | 8° 5 | 25°57 | n.a. | F 14 |
| S 15 | 9 27 13 | 23°44'37 | 4♏53 | 26°13 | 14°31 | 3°D10 | 19°10 | 21°52 | 18°43 | 11° 6 | 11°54 | 8°28 | 8° 1 | 26° 4 | n.a. | S 15 |
| S 16 | 9 31 10 | 24°44'15 | 18°43 | 27°16 | 15°45 | 3°10 | 19°14 | 21°51 | 18°41 | 11° 5 | 11°53 | 8°D27 | 7°58 | 26°10 | n.a. | S 16 |
| M17 | 9 35 6 | 25°43'52 | 2♐46 | 28°22 | 16°59 | 3°11 | 19°18 | 21°50 | 18°39 | 11° 4 | 11°53 | 8°27 | 7°55 | 26°17 | n.a. | M17 |
| T 18 | 9 39 3 | 26°43'27 | 17° 0 | 29°31 | 18°13 | 3°13 | 19°22 | 21°50 | 18°37 | 11° 3 | 11°53 | 8°28 | 7°52 | 26°24 | n.a. | T 18 |
| W19 | 9 42 59 | 27°43'01 | 1♑24 | 0♒41 | 19°27 | 3°16 | 19°25 | 21°49 | 18°35 | 11° 2 | 11°53 | 8°29 | 7°49 | 26°30 | n.a. | W19 |
| T 20 | 9 46 56 | 28°42'32 | 15°54 | 1°54 | 20°41 | 3°20 | 19°28 | 21°49 | 18°33 | 11° 1 | 11°52 | 8°31 | 7°46 | 26°37 | n.a. | T 20 |
| F 21 | 9 50 53 | 29°42'02 | 0♒25 | 3° 8 | 21°55 | 3°24 | 19°32 | 21°48 | 18°31 | 11° 0 | 11°52 | 8°31 | 7°42 | 26°44 | n.a. | F 21 |
| S 22 | 9 54 49 | 0♓41'30 | 14°54 | 4°25 | 23° 8 | 3°28 | 19°35 | 21°48 | 18°30 | 10°59 | 11°52 | 8°R31 | 7°39 | 26°50 | n.a. | S 22 |
| S 23 | 9 58 46 | 1°40'55 | 29°13 | 5°43 | 24°22 | 3°34 | 19°37 | 21°48 | 18°28 | 10°58 | 11°52 | 8°30 | 7°36 | 26°57 | n.a. | S 23 |
| M24 | 10 2 42 | 2°40'18 | 13♓19 | 7° 3 | 25°36 | 3°40 | 19°40 | 21°D47 | 18°26 | 10°57 | 11°52 | 8°28 | 7°33 | 27° 4 | n.a. | M24 |
| T 25 | 10 6 39 | 3°39'39 | 27° 6 | 8°25 | 26°50 | 3°47 | 19°43 | 21°47 | 18°25 | 10°56 | 11°52 | 8°25 | 7°30 | 27°10 | n.a. | T 25 |
| W26 | 10 10 35 | 4°38'58 | 10♈32 | 9°48 | 28° 3 | 3°54 | 19°45 | 21°48 | 18°23 | 10°55 | 11°52 | 8°21 | 7°26 | 27°17 | n.a. | W26 |
| T 27 | 10 14 32 | 5°38'15 | 23°36 | 11°13 | 29°17 | 4° 2 | 19°47 | 21°48 | 18°21 | 10°54 | 11°D52 | 8°16 | 7°23 | 27°24 | n.a. | T 27 |
| F 28 | 10 18 28 | 6♓37'29 | 6♉18 | 12♒40 | 0♈31 | 4♋11 | 19♏49 | 21♊48 | 18♋20 | 10♋53 | 11♊52 | 8♒13 | 7♒20 | 27♊31 | n.a. | F 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 18s 0 | 20n13 | 5n17 | 20s25 | 2n10 | 13s54 | 1s24 | 27n42 | 4n 4 | 16s27 | 0n57 | 23n 3 | 0s25 | 22n54 | 0n35 | 22n58 | 0s15 | 19n31 | 3s 0 | 18s19 | 18s16 | 27n11 | | n.a. |
| S 2 | 17 43 | 23 38 | 5 8 | 20 37 | 1 57 | 13 27 | 1 23 | 27 41 | 4 3 | 16 29 | 0 57 | 23 3 | 0 25 | 22 54 | 0 35 | 22 58 | 0 15 | 19 31 | 2 59 | 18 19 | 18 17 | 27 11 | | n.a. |
| M 3 | 17 27 | 25 59 | 4 45 | 20 48 | 1 44 | 13 0 | 1 22 | 27 40 | 4 1 | 16 31 | 0 57 | 23 3 | 0 25 | 22 54 | 0 35 | 22 58 | 0 15 | 19 31 | 2 59 | 18 19 | 18 18 | 27 10 | | n.a. |
| T 4 | 17 10 | 27 10 | 4 10 | 20 58 | 1 31 | 12 32 | 1 21 | 27 38 | 4 0 | 16 32 | 0 57 | 23 3 | 0 25 | 22 55 | 0 35 | 22 58 | 0 15 | 19 31 | 2 59 | 18 19 | 18 19 | 27 10 | | n.a. |
| W 5 | 16 52 | 27 7 | 3 25 | 21 7 | 1 18 | 12 4 | 1 20 | 27 37 | 3 58 | 16 34 | 0 57 | 23 3 | 0 25 | 22 55 | 0 35 | 22 58 | 0 15 | 19 31 | 2 59 | 18 19 | 18 19 | 27 9 | | n.a. |
| T 6 | 16 35 | 25 48 | 2 31 | 21 16 | 1 6 | 11 36 | 1 19 | 27 36 | 3 57 | 16 35 | 0 57 | 23 3 | 0 25 | 22 55 | 0 35 | 22 59 | 0 14 | 19 31 | 2 59 | 18 19 | 18 20 | 27 9 | | n.a. |
| F 7 | 16 17 | 23 19 | 1 30 | 21 23 | 0 54 | 11 7 | 1 18 | 27 34 | 3 55 | 16 37 | 0 57 | 23 3 | 0 24 | 22 56 | 0 35 | 22 59 | 0 14 | 19 31 | 2 59 | 18 19 | 18 21 | 27 9 | | n.a. |
| S 8 | 15 59 | 19 46 | 0 24 | 21 29 | 0 42 | 10 39 | 1 16 | 27 33 | 3 53 | 16 38 | 0 57 | 23 3 | 0 24 | 22 56 | 0 35 | 22 59 | 0 14 | 19 31 | 2 59 | 18 19 | 18 22 | 27 8 | | n.a. |
| S 9 | 15 41 | 15 19 | 0s44 | 21 35 | 0 30 | 10 10 | 1 15 | 27 31 | 3 51 | 16 40 | 0 57 | 23 3 | 0 24 | 22 56 | 0 35 | 22 59 | 0 14 | 19 31 | 2 59 | 18 19 | 18 23 | 27 8 | | n.a. |
| M10 | 15 22 | 10 10 | 1 51 | 21 39 | 0 18 | 9 40 | 1 14 | 27 29 | 3 50 | 16 41 | 0 57 | 23 4 | 0 24 | 22 56 | 0 35 | 22 59 | 0 14 | 19 31 | 2 58 | 18 19 | 18 24 | 27 7 | | n.a. |
| T 11 | 15 3 | 4 32 | 2 54 | 21 42 | 0 7 | 9 11 | 1 12 | 27 28 | 3 48 | 16 42 | 0 58 | 23 4 | 0 24 | 22 57 | 0 35 | 22 59 | 0 14 | 19 31 | 2 58 | 18 19 | 18 24 | 27 7 | | n.a. |
| W12 | 14 44 | 1s23 | 3 49 | 21 44 | 0s 3 | 8 41 | 1 11 | 27 26 | 3 46 | 16 43 | 0 58 | 23 4 | 0 24 | 22 57 | 0 35 | 22 59 | 0 14 | 19 31 | 2 58 | 18 19 | 18 25 | 27 7 | | n.a. |
| T 13 | 14 25 | 7 19 | 4 32 | 21 44 | 0 14 | 8 11 | 1 9 | 27 24 | 3 44 | 16 45 | 0 58 | 23 4 | 0 24 | 22 57 | 0 35 | 23 0 | 0 14 | 19 31 | 2 58 | 18 20 | 18 26 | 27 6 | | n.a. |
| F 14 | 14 5 | 13 2 | 5 2 | 21 43 | 0 24 | 7 41 | 1 7 | 27 22 | 3 43 | 16 46 | 0 58 | 23 4 | 0 23 | 22 58 | 0 35 | 23 0 | 0 14 | 19 31 | 2 58 | 18 20 | 18 27 | 27 6 | | n.a. |
| S 15 | 13 45 | 18 14 | 5 15 | 21 41 | 0 33 | 7 10 | 1 6 | 27 21 | 3 41 | 16 47 | 0 58 | 23 4 | 0 23 | 22 58 | 0 35 | 23 0 | 0 14 | 19 32 | 2 58 | 18 21 | 18 28 | 27 5 | | n.a. |
| S 16 | 13 25 | 22 33 | 5 11 | 21 38 | 0 43 | 6 40 | 1 4 | 27 19 | 3 39 | 16 48 | 0 58 | 23 4 | 0 23 | 22 58 | 0 35 | 23 0 | 0 14 | 19 32 | 2 58 | 18 21 | 18 29 | 27 5 | | n.a. |
| M17 | 13 5 | 25 39 | 4 48 | 21 33 | 0 52 | 6 9 | 1 2 | 27 17 | 3 37 | 16 49 | 0 58 | 23 4 | 0 23 | 22 58 | 0 35 | 23 0 | 0 14 | 19 32 | 2 58 | 18 21 | 18 29 | 27 4 | | n.a. |
| T 18 | 12 45 | 27 10 | 4 7 | 21 27 | 1 0 | 5 38 | 1 0 | 27 15 | 3 35 | 16 50 | 0 58 | 23 4 | 0 23 | 22 59 | 0 35 | 23 0 | 0 14 | 19 32 | 2 57 | 18 21 | 18 30 | 27 4 | | n.a. |
| W19 | 12 24 | 26 53 | 3 11 | 21 20 | 1 8 | 5 7 | 0 58 | 27 13 | 3 34 | 16 51 | 0 58 | 23 4 | 0 23 | 22 59 | 0 35 | 23 0 | 0 14 | 19 32 | 2 57 | 18 20 | 18 31 | 27 3 | | n.a. |
| T 20 | 12 3 | 24 46 | 2 2 | 21 11 | 1 16 | 4 36 | 0 56 | 27 11 | 3 32 | 16 51 | 0 58 | 23 4 | 0 23 | 22 59 | 0 35 | 23 0 | 0 14 | 19 32 | 2 57 | 18 20 | 18 32 | 27 3 | | n.a. |
| F 21 | 11 42 | 21 0 | 0 45 | 21 1 | 1 23 | 4 4 | 0 54 | 27 9 | 3 30 | 16 52 | 0 58 | 23 4 | 0 22 | 22 59 | 0 35 | 23 0 | 0 14 | 19 32 | 2 57 | 18 20 | 18 33 | 27 2 | | n.a. |
| S 22 | 11 21 | 15 59 | 0n35 | 20 49 | 1 30 | 3 33 | 0 52 | 27 7 | 3 28 | 16 53 | 0 59 | 23 5 | 0 22 | 23 0 | 0 35 | 23 0 | 0 14 | 19 32 | 2 57 | 18 20 | 18 34 | 27 2 | | n.a. |
| S 23 | 11 0 | 10 8 | 1 52 | 20 36 | 1 36 | 3 2 | 0 50 | 27 5 | 3 26 | 16 54 | 0 59 | 23 5 | 0 22 | 23 0 | 0 35 | 23 1 | 0 14 | 19 32 | 2 57 | 18 20 | 18 34 | 27 1 | | n.a. |
| M24 | 10 38 | 3 52 | 3 0 | 20 21 | 1 42 | 2 30 | 0 48 | 27 3 | 3 24 | 16 54 | 0 59 | 23 5 | 0 22 | 23 0 | 0 35 | 23 1 | 0 14 | 19 33 | 2 57 | 18 21 | 18 35 | 27 1 | | n.a. |
| T 25 | 10 16 | 2n26 | 3 56 | 20 5 | 1 48 | 1 58 | 0 46 | 27 1 | 3 23 | 16 55 | 0 59 | 23 5 | 0 22 | 23 0 | 0 35 | 23 1 | 0 14 | 19 33 | 2 57 | 18 22 | 18 36 | 27 0 | | n.a. |
| W26 | 9 55 | 8 28 | 4 38 | 19 48 | 1 53 | 1 27 | 0 44 | 26 59 | 3 21 | 16 55 | 0 59 | 23 5 | 0 22 | 23 0 | 0 35 | 23 1 | 0 14 | 19 33 | 2 56 | 18 23 | 18 37 | 27 0 | | n.a. |
| T 27 | 9 33 | 13 57 | 5 3 | 19 29 | 1 57 | 0 55 | 0 41 | 26 57 | 3 19 | 16 56 | 0 59 | 23 5 | 0 22 | 23 1 | 0 35 | 23 1 | 0 14 | 19 33 | 2 56 | 18 24 | 18 38 | 26 59 | | n.a. |
| F 28 | 9s11 | 18n41 | 5n13 | 19s 8 | 2s 1 | 0s23 | 0s39 | 26n55 | 3n17 | 16s56 | 0n59 | 23n 5 | 0s21 | 23n 1 | 0n35 | 23n 1 | 0s14 | 19n33 | 2s56 | 18s25 | 18s38 | 26n59 | | n.a. |

Julian Day Number = 1700269.5, Delta T = 03h05m56s
Ecliptic obliquity = 23°42'13, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°51'48, Lahiri = - 4°44'47 Julian Calendar 1 Feb. 58 BCE == Greg. Calendar 30 Jan. 058 BCE

The year -57 astronomical counting style corresponds to year 058 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 58 BCE
# geocentric

## MARCH 58 BCE (-57) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 22 25 | 7♓36'41 | 18♉42 | 14♒ 8 | 1♈44 | 4♋20 | 19♏51 | 21♊49 | 18°R18 | 10°R53 | 11♊52 | 8°R10 | 7♒17 | 27♊37 | n.a. | S 1 |
| S 2 | 10 26 21 | 8°35'50 | 0♊50 | 15°37 | 2°58 | 4°30 | 19°52 | 21°49 | 18♋17 | 10♋52 | 11°52 | 8♒ 8 | 7°14 | 27°44 | n.a. | S 2 |
| M 3 | 10 30 18 | 9°34'57 | 12°47 | 17° 9 | 4°11 | 4°40 | 19°53 | 21°50 | 18°16 | 10°51 | 11°52 | 8°D 8 | 7°11 | 27°51 | n.a. | M 3 |
| T 4 | 10 34 15 | 10°34'02 | 24°38 | 18°41 | 5°24 | 4°51 | 19°55 | 21°51 | 18°14 | 10°50 | 11°52 | 8° 9 | 7° 7 | 27°57 | n.a. | T 4 |
| W 5 | 10 38 11 | 11°33'04 | 6♋28 | 20°15 | 6°38 | 5° 2 | 19°56 | 21°52 | 18°13 | 10°50 | 11°52 | 8°10 | 7° 4 | 28° 4 | n.a. | W 5 |
| T 6 | 10 42 8 | 12°32'04 | 18°22 | 21°51 | 7°51 | 5°15 | 19°56 | 21°53 | 18°12 | 10°49 | 11°53 | 8°12 | 7° 1 | 28°11 | n.a. | T 6 |
| F 7 | 10 46 4 | 13°31'02 | 0♌23 | 23°28 | 9° 4 | 5°27 | 19°57 | 21°54 | 18°11 | 10°49 | 11°53 | 8°14 | 6°58 | 28°17 | n.a. | F 7 |
| S 8 | 10 50 1 | 14°29'57 | 12°37 | 25° 7 | 10°18 | 5°40 | 19°57 | 21°55 | 18°10 | 10°48 | 11°53 | 8°R14 | 6°55 | 28°24 | n.a. | S 8 |
| S 9 | 10 53 57 | 15°28'50 | 25° 6 | 26°47 | 11°31 | 5°54 | 19°58 | 21°56 | 18° 9 | 10°47 | 11°53 | 8°12 | 6°51 | 28°31 | n.a. | S 9 |
| M10 | 10 57 54 | 16°27'41 | 7♍52 | 28°28 | 12°44 | 6° 8 | 19°R58 | 21°58 | 18° 8 | 10°47 | 11°53 | 8° 9 | 6°48 | 28°37 | n.a. | M10 |
| T 11 | 11 1 50 | 17°26'30 | 20°55 | 0♓11 | 13°57 | 6°22 | 19°58 | 21°59 | 18° 7 | 10°47 | 11°54 | 8° 4 | 6°45 | 28°44 | n.a. | T 11 |
| W12 | 11 5 47 | 18°25'16 | 4♎15 | 1°56 | 15°10 | 6°37 | 19°57 | 22° 1 | 18° 6 | 10°46 | 11°54 | 7°58 | 6°42 | 28°51 | n.a. | W12 |
| T 13 | 11 9 44 | 19°24'01 | 17°49 | 3°42 | 16°23 | 6°53 | 19°57 | 22° 3 | 18° 5 | 10°46 | 11°54 | 7°51 | 6°39 | 28°57 | n.a. | T 13 |
| F 14 | 11 13 40 | 20°22'43 | 1♏37 | 5°29 | 17°36 | 7° 9 | 19°56 | 22° 5 | 18° 4 | 10°45 | 11°55 | 7°45 | 6°36 | 29° 4 | n.a. | F 14 |
| S 15 | 11 17 37 | 21°21'24 | 15°33 | 7°18 | 18°49 | 7°25 | 19°55 | 22° 7 | 18° 3 | 10°45 | 11°55 | 7°39 | 6°32 | 29°11 | n.a. | S 15 |
| S 16 | 11 21 33 | 22°20'03 | 29°36 | 9° 9 | 20° 2 | 7°42 | 19°54 | 22° 9 | 18° 2 | 10°45 | 11°56 | 7°35 | 6°29 | 29°17 | n.a. | S 16 |
| M17 | 11 25 30 | 23°18'41 | 13♐43 | 11° 1 | 21°14 | 7°59 | 19°53 | 22°11 | 18° 2 | 10°44 | 11°56 | 7°33 | 6°26 | 29°24 | n.a. | M17 |
| T 18 | 11 29 26 | 24°17'16 | 27°52 | 12°54 | 22°27 | 8°17 | 19°51 | 22°13 | 18° 1 | 10°44 | 11°56 | 7°D32 | 6°23 | 29°31 | n.a. | T 18 |
| W19 | 11 33 23 | 25°15'50 | 12♑ 2 | 14°50 | 23°40 | 8°35 | 19°50 | 22°16 | 18° 1 | 10°44 | 11°57 | 7°33 | 6°20 | 29°37 | n.a. | W19 |
| T 20 | 11 37 19 | 26°14'22 | 26°11 | 16°46 | 24°52 | 8°53 | 19°48 | 22°18 | 18° 0 | 10°44 | 11°57 | 7°34 | 6°17 | 29°44 | n.a. | T 20 |
| F 21 | 11 41 16 | 27°12'53 | 10♒16 | 18°45 | 26° 5 | 9°12 | 19°46 | 22°21 | 18° 0 | 10°44 | 11°58 | 7°R35 | 6°13 | 29°51 | n.a. | F 21 |
| S 22 | 11 45 13 | 28°11'22 | 24°17 | 20°44 | 27°17 | 9°31 | 19°44 | 22°23 | 17°59 | 10°43 | 11°58 | 7°33 | 6°10 | 29°57 | n.a. | S 22 |
| S 23 | 11 49 9 | 29° 9'48 | 8♓11 | 22°46 | 28°30 | 9°51 | 19°41 | 22°26 | 17°59 | 10°43 | 11°59 | 7°30 | 6° 7 | 0♋ 4 | n.a. | S 23 |
| M24 | 11 53 6 | 0♈ 8'13 | 21°54 | 24°48 | 29°42 | 10°11 | 19°39 | 22°29 | 17°59 | 10°43 | 11°59 | 7°24 | 6° 4 | 0°11 | n.a. | M24 |
| T 25 | 11 57 2 | 1° 6'36 | 5♈24 | 26°52 | 0♉55 | 10°31 | 19°36 | 22°32 | 17°58 | 10°D43 | 12° 0 | 7°16 | 6° 1 | 0°17 | n.a. | T 25 |
| W26 | 12 0 59 | 2° 4'57 | 18°38 | 28°57 | 2° 7 | 10°52 | 19°33 | 22°35 | 17°58 | 10°43 | 12° 1 | 7° 7 | 5°57 | 0°24 | n.a. | W26 |
| T 27 | 12 4 55 | 3° 3'17 | 1♉34 | 1♈ 3 | 3°19 | 11°13 | 19°30 | 22°38 | 17°58 | 10°43 | 12° 1 | 6°57 | 5°54 | 0°31 | n.a. | T 27 |
| F 28 | 12 8 52 | 4° 1'34 | 14°13 | 3°10 | 4°31 | 11°34 | 19°27 | 22°42 | 17°58 | 10°43 | 12° 2 | 6°48 | 5°51 | 0°37 | n.a. | F 28 |
| S 29 | 12 12 48 | 4°59'49 | 26°35 | 5°18 | 5°43 | 11°56 | 19°23 | 22°45 | 17°D58 | 10°44 | 12° 3 | 6°40 | 5°48 | 0°44 | n.a. | S 29 |
| S 30 | 12 16 45 | 5°58'02 | 8♊42 | 7°27 | 6°56 | 12°18 | 19°20 | 22°49 | 17°58 | 10°44 | 12° 3 | 6°34 | 5°45 | 0°51 | n.a. | S 30 |
| M31 | 12 20 41 | 6♈56'13 | 20♊39 | 9♈35 | 8♉ 8 | 12♋40 | 19♏16 | 22♊52 | 17♋58 | 10♋44 | 12♊ 4 | 6♒30 | 5♒42 | 0♋57 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 8s48 | 22n30 | 5n 8 | 18s46 | 2s 5 | 0n 9 | 0s36 | 26n53 | 3n15 | 16s57 | 0n59 | 23n 6 | 0s21 | 23n 1 | 0n35 | 23n 1 | 0s14 | 19n33 | 2s56 | 18s26 | 18s39 | 26n58 | | n.a. |
| S 2 | 8 26 | 25 16 | 4 49 | 18 22 | 2 9 | 0 40 | 0 34 | 26 51 | 3 14 | 16 57 | 0 59 | 23 6 | 0 21 | 23 1 | 0 35 | 23 1 | 0 14 | 19 33 | 2 56 | 18 26 | 18 40 | 26 58 | | n.a. |
| M 3 | 8 4 | 26 51 | 4 18 | 17 57 | 2 11 | 1 12 | 0 31 | 26 49 | 3 12 | 16 57 | 0 59 | 23 6 | 0 21 | 23 1 | 0 35 | 23 1 | 0 14 | 19 33 | 2 56 | 18 26 | 18 41 | 26 57 | | n.a. |
| T 4 | 7 41 | 27 12 | 3 36 | 17 30 | 2 14 | 1 44 | 0 29 | 26 47 | 3 10 | 16 58 | 0 59 | 23 6 | 0 21 | 23 2 | 0 35 | 23 1 | 0 14 | 19 34 | 2 56 | 18 26 | 18 42 | 26 57 | | n.a. |
| W 5 | 7 19 | 26 17 | 2 45 | 17 2 | 2 16 | 2 15 | 0 26 | 26 44 | 3 8 | 16 58 | 0 59 | 23 6 | 0 21 | 23 2 | 0 35 | 23 1 | 0 14 | 19 34 | 2 56 | 18 25 | 18 43 | 26 56 | | n.a. |
| T 6 | 6 56 | 24 11 | 1 46 | 16 32 | 2 17 | 2 47 | 0 24 | 26 42 | 3 6 | 16 58 | 1 0 | 23 7 | 0 21 | 23 2 | 0 35 | 23 2 | 0 14 | 19 34 | 2 55 | 18 25 | 18 43 | 26 55 | | n.a. |
| F 7 | 6 33 | 20 59 | 0 43 | 16 1 | 2 18 | 3 19 | 0 21 | 26 40 | 3 5 | 16 58 | 1 0 | 23 7 | 0 20 | 23 2 | 0 35 | 23 2 | 0 14 | 19 34 | 2 55 | 18 25 | 18 44 | 26 55 | | n.a. |
| S 8 | 6 10 | 16 49 | 0s24 | 15 28 | 2 19 | 3 50 | 0 18 | 26 38 | 3 3 | 16 58 | 1 0 | 23 7 | 0 20 | 23 2 | 0 35 | 23 2 | 0 14 | 19 34 | 2 55 | 18 25 | 18 45 | 26 54 | | n.a. |
| S 9 | 5 47 | 11 52 | 1 31 | 14 53 | 2 19 | 4 22 | 0 16 | 26 35 | 3 1 | 16 58 | 1 0 | 23 7 | 0 20 | 23 2 | 0 35 | 23 2 | 0 14 | 19 34 | 2 55 | 18 25 | 18 46 | 26 54 | | n.a. |
| M10 | 5 24 | 6 20 | 2 34 | 14 17 | 2 18 | 4 53 | 0 13 | 26 33 | 3 0 | 16 58 | 1 0 | 23 7 | 0 20 | 23 2 | 0 35 | 23 2 | 0 14 | 19 34 | 2 55 | 18 26 | 18 47 | 26 53 | | n.a. |
| T 11 | 5 1 | 0 25 | 3 31 | 13 40 | 2 17 | 5 24 | 0 10 | 26 31 | 2 58 | 16 58 | 1 0 | 23 8 | 0 20 | 23 2 | 0 35 | 23 2 | 0 14 | 19 35 | 2 55 | 18 27 | 18 47 | 26 52 | | n.a. |
| W12 | 4 38 | 5s38 | 4 18 | 13 1 | 2 15 | 5 55 | 0 8 | 26 28 | 2 56 | 16 58 | 1 0 | 23 8 | 0 20 | 23 3 | 0 35 | 23 2 | 0 14 | 19 35 | 2 55 | 18 29 | 18 48 | 26 52 | | n.a. |
| T 13 | 4 14 | 11 32 | 4 51 | 12 20 | 2 13 | 6 26 | 0 5 | 26 26 | 2 55 | 16 57 | 1 0 | 23 8 | 0 20 | 23 3 | 0 35 | 23 2 | 0 14 | 19 35 | 2 55 | 18 30 | 18 49 | 26 51 | | n.a. |
| F 14 | 3 51 | 16 57 | 5 7 | 11 38 | 2 11 | 6 57 | 0 2 | 26 23 | 2 53 | 16 57 | 1 0 | 23 8 | 0 19 | 23 3 | 0 35 | 23 2 | 0 14 | 19 35 | 2 54 | 18 32 | 18 50 | 26 50 | | n.a. |
| S 15 | 3 28 | 21 33 | 5 6 | 10 54 | 2 8 | 7 28 | 0n 1 | 26 21 | 2 51 | 16 57 | 1 0 | 23 9 | 0 19 | 23 3 | 0 35 | 23 2 | 0 14 | 19 35 | 2 54 | 18 34 | 18 51 | 26 50 | | n.a. |
| S 16 | 3 4 | 24 57 | 4 47 | 10 9 | 2 4 | 7 58 | 0 4 | 26 18 | 2 50 | 16 57 | 1 0 | 23 9 | 0 19 | 23 3 | 0 35 | 23 2 | 0 14 | 19 35 | 2 54 | 18 35 | 18 51 | 26 49 | | n.a. |
| M17 | 2 41 | 26 50 | 4 10 | 9 22 | 2 0 | 8 29 | 0 7 | 26 15 | 2 48 | 16 56 | 1 0 | 23 9 | 0 19 | 23 3 | 0 35 | 23 2 | 0 14 | 19 36 | 2 54 | 18 35 | 18 52 | 26 48 | | n.a. |
| T 18 | 2 18 | 26 59 | 3 18 | 8 33 | 1 55 | 8 59 | 0 10 | 26 13 | 2 46 | 16 56 | 1 0 | 23 9 | 0 19 | 23 3 | 0 35 | 23 2 | 0 14 | 19 36 | 2 54 | 18 35 | 18 53 | 26 48 | | n.a. |
| W19 | 1 54 | 25 22 | 2 13 | 7 44 | 1 50 | 9 29 | 0 13 | 26 10 | 2 45 | 16 55 | 1 0 | 23 10 | 0 19 | 23 3 | 0 35 | 23 2 | 0 14 | 19 36 | 2 54 | 18 35 | 18 54 | 26 47 | | n.a. |
| T 20 | 1 31 | 22 9 | 1 1 | 6 53 | 1 44 | 9 58 | 0 15 | 26 7 | 2 43 | 16 55 | 1 1 | 23 10 | 0 19 | 23 3 | 0 35 | 23 2 | 0 14 | 19 36 | 2 54 | 18 35 | 18 55 | 26 46 | | n.a. |
| F 21 | 1 7 | 17 38 | 0n15 | 6 0 | 1 38 | 10 28 | 0 18 | 26 4 | 2 42 | 16 54 | 1 1 | 23 10 | 0 19 | 23 3 | 0 35 | 23 2 | 0 14 | 19 36 | 2 54 | 18 35 | 18 55 | 26 46 | | n.a. |
| S 22 | 0 44 | 12 11 | 1 29 | 5 6 | 1 31 | 10 57 | 0 21 | 26 1 | 2 40 | 16 53 | 1 1 | 23 11 | 0 18 | 23 3 | 0 35 | 23 2 | 0 14 | 19 37 | 2 53 | 18 35 | 18 56 | 26 45 | | n.a. |
| S 23 | 0 20 | 6 10 | 2 37 | 4 11 | 1 24 | 11 26 | 0 24 | 25 58 | 2 39 | 16 53 | 1 1 | 23 11 | 0 18 | 23 3 | 0 35 | 23 2 | 0 14 | 19 37 | 2 53 | 18 36 | 18 57 | 26 44 | | n.a. |
| M24 | 0n 3 | 0n 2 | 3 35 | 3 15 | 1 16 | 11 55 | 0 27 | 25 55 | 2 37 | 16 52 | 1 1 | 23 11 | 0 18 | 23 3 | 0 35 | 23 2 | 0 14 | 19 37 | 2 53 | 18 37 | 18 58 | 26 43 | | n.a. |
| T 25 | 0 27 | 6 8 | 4 20 | 2 18 | 1 8 | 12 23 | 0 30 | 25 52 | 2 35 | 16 51 | 1 1 | 23 11 | 0 18 | 23 3 | 0 35 | 23 2 | 0 14 | 19 37 | 2 53 | 18 39 | 18 59 | 26 43 | | n.a. |
| W26 | 0 50 | 11 50 | 4 50 | 1 20 | 0 59 | 12 51 | 0 33 | 25 49 | 2 34 | 16 50 | 1 1 | 23 12 | 0 18 | 23 3 | 0 35 | 23 2 | 0 14 | 19 37 | 2 53 | 18 42 | 18 59 | 26 42 | | n.a. |
| T 27 | 1 14 | 16 53 | 5 4 | 0 21 | 0 50 | 13 19 | 0 36 | 25 45 | 2 32 | 16 49 | 1 1 | 23 12 | 0 18 | 23 3 | 0 35 | 23 2 | 0 14 | 19 38 | 2 53 | 18 44 | 19 0 | 26 41 | | n.a. |
| F 28 | 1 37 | 21 5 | 5 3 | 0n39 | 0 41 | 13 47 | 0 39 | 25 42 | 2 31 | 16 48 | 1 1 | 23 12 | 0 18 | 23 3 | 0 35 | 23 2 | 0 14 | 19 38 | 2 53 | 18 47 | 19 1 | 26 41 | | n.a. |
| S 29 | 2 0 | 24 15 | 4 47 | 1 39 | 0 31 | 14 14 | 0 42 | 25 39 | 2 29 | 16 47 | 1 1 | 23 13 | 0 18 | 23 3 | 0 35 | 23 2 | 0 14 | 19 38 | 2 53 | 18 49 | 19 2 | 26 40 | | n.a. |
| S 30 | 2 24 | 26 15 | 4 19 | 2 40 | 0 21 | 14 41 | 0 45 | 25 35 | 2 28 | 16 46 | 1 1 | 23 13 | 0 17 | 23 3 | 0 35 | 23 2 | 0 13 | 19 38 | 2 52 | 18 50 | 19 3 | 26 39 | | n.a. |
| M31 | 2n47 | 27n 1 | 3n40 | 3n41 | 0s10 | 15n 7 | 0n48 | 25n31 | 2n27 | 16s45 | 1n 1 | 23n13 | 0s17 | 23n 3 | 0n35 | 23n 2 | 0s13 | 19n38 | 2s52 | 18s51 | 19s 3 | 26n38 | | n.a. |

Julian Day Number = 1700297.5, Delta T = 03h05m55s
Ecliptic obliquity = 23°42'13, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°51'44, Lahiri = - 4°44'44 Julian Calendar 1 March 58 BCE == Greg. Calendar 27 Feb. 058 BCE

The year -57 astronomical counting style corresponds to year 058 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 58 BCE
# geocentric

## APRIL 58 BCE (-57) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 24 38 | 7♈54'22 | 2♋30 | 11♈44 | 9♉20 | 13♋ 3 | 19°R12 | 22♊56 | 17♋58 | 10♋44 | 12♊ 5 | 6°R29 | 5♒38 | 1♋ 4 | n.a. | T 1 |
| W 2 | 12 28 35 | 8°52'29 | 14°20 | 13°53 | 10°31 | 13°26 | 19♏ 8 | 23° 0 | 17°58 | 10°44 | 12° 6 | 6°D29 | 5°35 | 1°11 | n.a. | W 2 |
| T 3 | 12 32 31 | 9°50'34 | 26°13 | 16° 2 | 11°43 | 13°49 | 19° 4 | 23° 3 | 17°58 | 10°45 | 12° 6 | 6♒29 | 5°32 | 1°17 | n.a. | T 3 |
| F 4 | 12 36 28 | 10°48'37 | 8♌17 | 18° 9 | 12°55 | 14°13 | 18°59 | 23° 7 | 17°59 | 10°45 | 12° 7 | 6°R30 | 5°29 | 1°24 | n.a. | F 4 |
| S 5 | 12 40 24 | 11°46'38 | 20°35 | 20°16 | 14° 7 | 14°37 | 18°55 | 23°11 | 17°59 | 10°45 | 12° 8 | 6°29 | 5°26 | 1°31 | n.a. | S 5 |
| S 6 | 12 44 21 | 12°44'36 | 3♍11 | 22°22 | 15°18 | 15° 1 | 18°50 | 23°15 | 18° 0 | 10°46 | 12° 9 | 6°26 | 5°22 | 1°37 | n.a. | S 6 |
| M 7 | 12 48 17 | 13°42'33 | 16° 9 | 24°25 | 16°30 | 15°25 | 18°45 | 23°20 | 18° 0 | 10°46 | 12°10 | 6°20 | 5°19 | 1°44 | n.a. | M 7 |
| T 8 | 12 52 14 | 14°40'28 | 29°29 | 26°27 | 17°41 | 15°50 | 18°40 | 23°24 | 18° 0 | 10°46 | 12°11 | 6°12 | 5°16 | 1°51 | n.a. | T 8 |
| W 9 | 12 56 10 | 15°38'22 | 13♎10 | 28°27 | 18°53 | 16°15 | 18°35 | 23°28 | 18° 1 | 10°47 | 12°12 | 6° 2 | 5°13 | 1°57 | n.a. | W 9 |
| T 10 | 13 0 7 | 16°36'14 | 27°11 | 0♏25 | 20° 4 | 16°40 | 18°30 | 23°33 | 18° 2 | 10°47 | 12°12 | 5°52 | 5°10 | 2° 4 | n.a. | T 10 |
| F 11 | 13 4 4 | 17°34'04 | 11♏25 | 2°19 | 21°15 | 17° 5 | 18°24 | 23°37 | 18° 2 | 10°48 | 12°13 | 5°41 | 5° 7 | 2°11 | n.a. | F 11 |
| S 12 | 13 8 0 | 18°31'53 | 25°48 | 4°12 | 22°26 | 17°31 | 18°19 | 23°42 | 18° 3 | 10°49 | 12°14 | 5°32 | 5° 3 | 2°17 | n.a. | S 12 |
| S 13 | 13 11 57 | 19°29'40 | 10♐13 | 6° 1 | 23°38 | 17°57 | 18°13 | 23°47 | 18° 4 | 10°49 | 12°15 | 5°24 | 5° 0 | 2°24 | n.a. | S 13 |
| M14 | 13 15 53 | 20°27'27 | 24°36 | 7°47 | 24°49 | 18°23 | 18° 7 | 23°51 | 18° 5 | 10°50 | 12°16 | 5°20 | 4°57 | 2°31 | n.a. | M14 |
| T 15 | 13 19 50 | 21°25'12 | 8♑52 | 9°30 | 26° 0 | 18°49 | 18° 1 | 23°56 | 18° 5 | 10°50 | 12°17 | 5°18 | 4°54 | 2°37 | n.a. | T 15 |
| W16 | 13 23 46 | 22°22'56 | 23° 0 | 11°10 | 27°11 | 19°16 | 17°55 | 24° 1 | 18° 6 | 10°51 | 12°18 | 5°D17 | 4°51 | 2°44 | n.a. | W16 |
| T 17 | 13 27 43 | 23°20'38 | 6♒59 | 12°46 | 28°21 | 19°43 | 17°49 | 24° 6 | 18° 7 | 10°52 | 12°19 | 5°R17 | 4°48 | 2°51 | n.a. | T 17 |
| F 18 | 13 31 39 | 24°18'20 | 20°48 | 14°19 | 29°32 | 20°10 | 17°42 | 24°11 | 18° 8 | 10°53 | 12°21 | 5°17 | 4°44 | 2°57 | n.a. | F 18 |
| S 19 | 13 35 36 | 25°16'00 | 4♓27 | 15°49 | 0♊43 | 20°37 | 17°36 | 24°16 | 18° 9 | 10°53 | 12°22 | 5°14 | 4°41 | 3° 4 | n.a. | S 19 |
| S 20 | 13 39 33 | 26°13'39 | 17°57 | 17°15 | 1°53 | 21° 4 | 17°29 | 24°22 | 18°11 | 10°54 | 12°23 | 5° 9 | 4°38 | 3°11 | n.a. | S 20 |
| M21 | 13 43 29 | 27°11'17 | 1♈16 | 18°37 | 3° 4 | 21°32 | 17°23 | 24°27 | 18°12 | 10°55 | 12°24 | 5° 1 | 4°35 | 3°17 | n.a. | M21 |
| T 22 | 13 47 26 | 28° 8'54 | 14°23 | 19°56 | 4°14 | 22° 0 | 17°16 | 24°32 | 18°13 | 10°56 | 12°25 | 4°50 | 4°32 | 3°24 | n.a. | T 22 |
| W23 | 13 51 22 | 29° 6'29 | 27°18 | 21°11 | 5°25 | 22°28 | 17° 9 | 24°38 | 18°14 | 10°57 | 12°26 | 4°38 | 4°28 | 3°31 | n.a. | W23 |
| T 24 | 13 55 19 | 0♉ 4'03 | 10♉ 0 | 22°23 | 6°35 | 22°56 | 17° 2 | 24°43 | 18°16 | 10°58 | 12°27 | 4°25 | 4°25 | 3°37 | n.a. | T 24 |
| F 25 | 13 59 15 | 1° 1'36 | 22°28 | 23°31 | 7°45 | 23°25 | 16°55 | 24°49 | 18°17 | 10°59 | 12°28 | 4°12 | 4°22 | 3°44 | n.a. | F 25 |
| S 26 | 14 3 12 | 1°59'08 | 4♊42 | 24°35 | 8°55 | 23°53 | 16°48 | 24°55 | 18°18 | 11° 0 | 12°30 | 4° 1 | 4°19 | 3°51 | n.a. | S 26 |
| S 27 | 14 7 8 | 2°56'38 | 16°45 | 25°35 | 10° 5 | 24°22 | 16°41 | 25° 0 | 18°20 | 11° 1 | 12°31 | 3°52 | 4°16 | 3°57 | n.a. | S 27 |
| M28 | 14 11 5 | 3°54'07 | 28°40 | 26°31 | 11°15 | 24°51 | 16°34 | 25° 6 | 18°21 | 11° 2 | 12°32 | 3°46 | 4°13 | 4° 4 | n.a. | M28 |
| T 29 | 14 15 2 | 4°51'35 | 10♋29 | 27°23 | 12°25 | 25°20 | 16°26 | 25°12 | 18°23 | 11° 3 | 12°33 | 3°43 | 4° 9 | 4°11 | n.a. | T 29 |
| W30 | 14 18 58 | 5♉49'01 | 22♋17 | 28♉11 | 13♊35 | 25♋50 | 16♏19 | 25♊18 | 18♋25 | 11♋ 4 | 12♊34 | 3♒41 | 4♒ 6 | 4♋17 | n.a. | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3n10 | 26n32 | 2n51 | 4n42 | 0n 0 | 15n34 | 0n51 | 25n28 | 2n25 | 16s44 | 1n 1 | 23n14 | 0s17 | 23n 3 | 0n35 | 23n 2 | 0s13 | 19n39 | 2s52 | 18s52 | 19s 4 | 26n37 | | n.a. |
| W 2 | 3 33 | 24 50 | 1 56 | 5 43 | 0 11 | 15 59 | 0 54 | 25 24 | 2 24 | 16 43 | 1 1 | 23 14 | 0 17 | 23 3 | 0 34 | 23 2 | 0 13 | 19 39 | 2 52 | 18 52 | 19 5 | 26 37 | | n.a. |
| T 3 | 3 56 | 22 2 | 0 55 | 6 43 | 0 22 | 16 25 | 0 57 | 25 20 | 2 22 | 16 42 | 1 1 | 23 14 | 0 17 | 23 3 | 0 34 | 23 2 | 0 13 | 19 39 | 2 52 | 18 51 | 19 6 | 26 36 | | n.a. |
| F 4 | 4 19 | 18 14 | 0s10 | 7 42 | 0 33 | 16 50 | 0 59 | 25 16 | 2 21 | 16 41 | 1 1 | 23 15 | 0 17 | 23 3 | 0 34 | 23 2 | 0 13 | 19 39 | 2 52 | 18 51 | 19 7 | 26 35 | | n.a. |
| S 5 | 4 42 | 13 37 | 1 14 | 8 40 | 0 43 | 17 14 | 1 2 | 25 12 | 2 20 | 16 39 | 1 1 | 23 15 | 0 17 | 23 3 | 0 34 | 23 2 | 0 13 | 19 40 | 2 52 | 18 52 | 19 7 | 26 34 | | n.a. |
| S 6 | 5 5 | 8 19 | 2 17 | 9 38 | 0 54 | 17 39 | 1 5 | 25 8 | 2 18 | 16 38 | 1 1 | 23 15 | 0 17 | 23 3 | 0 34 | 23 2 | 0 13 | 19 40 | 2 52 | 18 52 | 19 8 | 26 33 | | n.a. |
| M 7 | 5 28 | 2 32 | 3 14 | 10 34 | 1 4 | 18 2 | 1 8 | 25 4 | 2 17 | 16 37 | 1 1 | 23 16 | 0 16 | 23 3 | 0 34 | 23 2 | 0 13 | 19 40 | 2 51 | 18 54 | 19 9 | 26 33 | | n.a. |
| T 8 | 5 51 | 3s30 | 4 3 | 11 28 | 1 14 | 18 25 | 1 11 | 25 0 | 2 15 | 16 35 | 1 1 | 23 16 | 0 16 | 23 3 | 0 34 | 23 2 | 0 13 | 19 40 | 2 51 | 18 56 | 19 10 | 26 32 | | n.a. |
| W 9 | 6 13 | 9 31 | 4 39 | 12 21 | 1 24 | 18 48 | 1 13 | 24 55 | 2 14 | 16 34 | 1 1 | 23 16 | 0 16 | 23 3 | 0 34 | 23 2 | 0 13 | 19 40 | 2 51 | 18 58 | 19 10 | 26 31 | | n.a. |
| T 10 | 6 36 | 15 13 | 4 58 | 13 11 | 1 33 | 19 11 | 1 16 | 24 51 | 2 13 | 16 32 | 1 1 | 23 17 | 0 16 | 23 2 | 0 34 | 23 2 | 0 13 | 19 41 | 2 51 | 19 1 | 19 11 | 26 30 | | n.a. |
| F 11 | 6 58 | 20 10 | 5 0 | 14 0 | 1 41 | 19 32 | 1 19 | 24 46 | 2 11 | 16 31 | 1 1 | 23 17 | 0 16 | 23 2 | 0 34 | 23 2 | 0 13 | 19 41 | 2 51 | 19 4 | 19 12 | 26 29 | | n.a. |
| S 12 | 7 20 | 24 0 | 4 43 | 14 46 | 1 49 | 19 54 | 1 22 | 24 42 | 2 10 | 16 29 | 1 1 | 23 17 | 0 16 | 23 2 | 0 34 | 23 2 | 0 13 | 19 41 | 2 51 | 19 6 | 19 13 | 26 28 | | n.a. |
| S 13 | 7 43 | 26 19 | 4 8 | 15 30 | 1 57 | 20 15 | 1 24 | 24 37 | 2 9 | 16 28 | 1 1 | 23 18 | 0 16 | 23 2 | 0 34 | 23 2 | 0 13 | 19 41 | 2 51 | 19 8 | 19 14 | 26 28 | | n.a. |
| M14 | 8 5 | 26 53 | 3 18 | 16 12 | 2 4 | 20 35 | 1 27 | 24 32 | 2 8 | 16 26 | 1 1 | 23 18 | 0 16 | 23 2 | 0 34 | 23 2 | 0 13 | 19 42 | 2 51 | 19 9 | 19 14 | 26 27 | | n.a. |
| T 15 | 8 27 | 25 39 | 2 15 | 16 52 | 2 10 | 20 55 | 1 29 | 24 27 | 2 6 | 16 24 | 1 1 | 23 18 | 0 15 | 23 2 | 0 34 | 23 2 | 0 13 | 19 42 | 2 51 | 19 9 | 19 15 | 26 26 | | n.a. |
| W16 | 8 48 | 22 47 | 1 5 | 17 29 | 2 15 | 21 14 | 1 32 | 24 22 | 2 5 | 16 23 | 1 1 | 23 19 | 0 15 | 23 2 | 0 34 | 23 2 | 0 13 | 19 42 | 2 50 | 19 9 | 19 16 | 26 25 | | n.a. |
| T 17 | 9 10 | 18 35 | 0n 9 | 18 3 | 2 20 | 21 33 | 1 34 | 24 17 | 2 4 | 16 21 | 1 1 | 23 19 | 0 15 | 23 1 | 0 34 | 23 2 | 0 13 | 19 42 | 2 50 | 19 9 | 19 17 | 26 24 | | n.a. |
| F 18 | 9 31 | 13 26 | 1 21 | 18 35 | 2 23 | 21 51 | 1 37 | 24 11 | 2 2 | 16 19 | 1 1 | 23 19 | 0 15 | 23 1 | 0 34 | 23 2 | 0 13 | 19 43 | 2 50 | 19 9 | 19 17 | 26 23 | | n.a. |
| S 19 | 9 53 | 7 42 | 2 28 | 19 5 | 2 26 | 22 8 | 1 39 | 24 6 | 2 1 | 16 17 | 1 1 | 23 20 | 0 15 | 23 1 | 0 34 | 23 2 | 0 13 | 19 43 | 2 50 | 19 10 | 19 18 | 26 22 | | n.a. |
| S 20 | 10 14 | 1 40 | 3 25 | 19 32 | 2 29 | 22 25 | 1 41 | 24 0 | 2 0 | 16 16 | 1 1 | 23 20 | 0 15 | 23 1 | 0 34 | 23 2 | 0 13 | 19 43 | 2 50 | 19 11 | 19 19 | 26 21 | | n.a. |
| M21 | 10 35 | 4n20 | 4 10 | 19 57 | 2 30 | 22 42 | 1 44 | 23 55 | 1 59 | 16 14 | 1 1 | 23 20 | 0 15 | 23 1 | 0 34 | 23 2 | 0 13 | 19 43 | 2 50 | 19 13 | 19 20 | 26 20 | | n.a. |
| T 22 | 10 56 | 10 3 | 4 42 | 20 20 | 2 30 | 22 57 | 1 46 | 23 49 | 1 58 | 16 12 | 1 1 | 23 21 | 0 15 | 23 1 | 0 34 | 23 2 | 0 13 | 19 44 | 2 50 | 19 16 | 19 20 | 26 19 | | n.a. |
| W23 | 11 17 | 15 15 | 4 58 | 20 40 | 2 30 | 23 13 | 1 48 | 23 43 | 1 56 | 16 10 | 1 1 | 23 21 | 0 14 | 23 0 | 0 34 | 23 2 | 0 13 | 19 44 | 2 50 | 19 19 | 19 21 | 26 18 | | n.a. |
| T 24 | 11 37 | 19 41 | 4 59 | 20 58 | 2 29 | 23 27 | 1 50 | 23 37 | 1 55 | 16 8 | 1 1 | 23 21 | 0 14 | 23 0 | 0 34 | 23 2 | 0 13 | 19 44 | 2 50 | 19 22 | 19 22 | 26 18 | | n.a. |
| F 25 | 11 58 | 23 11 | 4 45 | 21 13 | 2 27 | 23 41 | 1 52 | 23 31 | 1 54 | 16 6 | 1 1 | 23 22 | 0 14 | 23 0 | 0 34 | 23 2 | 0 13 | 19 44 | 2 50 | 19 25 | 19 23 | 26 17 | | n.a. |
| S 26 | 12 18 | 25 33 | 4 19 | 21 27 | 2 24 | 23 54 | 1 54 | 23 25 | 1 53 | 16 4 | 1 1 | 23 22 | 0 14 | 23 0 | 0 34 | 23 2 | 0 13 | 19 45 | 2 49 | 19 28 | 19 24 | 26 16 | | n.a. |
| S 27 | 12 38 | 26 42 | 3 41 | 21 38 | 2 20 | 24 7 | 1 56 | 23 19 | 1 52 | 16 2 | 1 1 | 23 22 | 0 14 | 23 0 | 0 34 | 23 2 | 0 13 | 19 45 | 2 49 | 19 30 | 19 24 | 26 15 | | n.a. |
| M28 | 12 57 | 26 36 | 2 54 | 21 47 | 2 15 | 24 19 | 1 58 | 23 12 | 1 50 | 16 0 | 1 1 | 23 23 | 0 14 | 22 59 | 0 34 | 23 1 | 0 13 | 19 45 | 2 49 | 19 31 | 19 25 | 26 14 | | n.a. |
| T 29 | 13 17 | 25 16 | 2 0 | 21 53 | 2 9 | 24 30 | 1 59 | 23 6 | 1 49 | 15 58 | 1 1 | 23 23 | 0 14 | 22 59 | 0 34 | 23 1 | 0 13 | 19 45 | 2 49 | 19 32 | 19 26 | 26 13 | | n.a. |
| W30 | 13n36 | 22n49 | 1n 0 | 21n58 | 2n 3 | 24n41 | 2n 1 | 22n59 | 1n48 | 15s56 | 1n 1 | 23n23 | 0s14 | 22n59 | 0n34 | 23n 1 | 0s13 | 19n46 | 2s49 | 19s33 | 19s27 | 26n12 | | n.a. |

Julian Day Number = 1700328.5, Delta T = 03h05m54s
Ecliptic obliquity = 23°42'13, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°51'40, Lahiri = - 4°44'39 Julian Calendar 1 Apr. 58 BCE == Greg. Calendar 30 March 058 BCE


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# ASTRODIENST EPHEMERIS for the year 58 BCE
# geocentric

## MAY 58 BCE (-57) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 22 55 | 6♉46'26 | 4♌10 | 28♉55 | 14♊45 | 26♋19 | 16°R12 | 25♊24 | 18♋26 | 11♋ 5 | 12♊36 | 3°R41 | 4♒ 3 | 4♋24 | n.a. | T 1 |
| F 2 | 14 26 51 | 7°43'50 | 16°13 | 29°34 | 15°54 | 26°49 | 16♏ 4 | 25°30 | 18°28 | 11° 7 | 12°37 | 3♒41 | 4° 0 | 4°31 | n.a. | F 2 |
| S 3 | 14 30 48 | 8°41'12 | 28°31 | 0♊10 | 17° 4 | 27°19 | 15°57 | 25°36 | 18°30 | 11° 8 | 12°38 | 3°40 | 3°57 | 4°37 | n.a. | S 3 |
| S 4 | 14 34 44 | 9°38'33 | 11♍ 9 | 0°40 | 18°13 | 27°49 | 15°49 | 25°42 | 18°32 | 11° 9 | 12°40 | 3°37 | 3°54 | 4°44 | n.a. | S 4 |
| M 5 | 14 38 41 | 10°35'53 | 24°11 | 1° 7 | 19°22 | 28°19 | 15°41 | 25°48 | 18°33 | 11°10 | 12°41 | 3°32 | 3°50 | 4°51 | n.a. | M 5 |
| T 6 | 14 42 37 | 11°33'12 | 7♎40 | 1°29 | 20°31 | 28°50 | 15°34 | 25°55 | 18°35 | 11°12 | 12°42 | 3°24 | 3°47 | 4°57 | n.a. | T 6 |
| W 7 | 14 46 34 | 12°30'29 | 21°35 | 1°46 | 21°40 | 29°20 | 15°26 | 26° 1 | 18°37 | 11°13 | 12°44 | 3°14 | 3°44 | 5° 4 | n.a. | W 7 |
| T 8 | 14 50 31 | 13°27'46 | 5♏54 | 1°58 | 22°49 | 29°51 | 15°19 | 26° 7 | 18°39 | 11°14 | 12°45 | 3° 3 | 3°41 | 5°11 | n.a. | T 8 |
| F 9 | 14 54 27 | 14°25'02 | 20°30 | 2° 6 | 23°58 | 0♌22 | 15°11 | 26°14 | 18°41 | 11°16 | 12°46 | 2°52 | 3°38 | 5°17 | n.a. | F 9 |
| S 10 | 14 58 24 | 15°22'17 | 5♐18 | 2°R10 | 25° 7 | 0°53 | 15° 3 | 26°20 | 18°43 | 11°17 | 12°48 | 2°42 | 3°34 | 5°24 | n.a. | S 10 |
| S 11 | 15 2 20 | 16°19'31 | 20° 7 | 2° 9 | 26°15 | 1°24 | 14°56 | 26°27 | 18°46 | 11°18 | 12°49 | 2°35 | 3°31 | 5°31 | n.a. | S 11 |
| M12 | 15 6 17 | 17°16'45 | 4♑51 | 2° 3 | 27°24 | 1°55 | 14°48 | 26°33 | 18°48 | 11°20 | 12°50 | 2°30 | 3°28 | 5°37 | n.a. | M12 |
| T 13 | 15 10 13 | 18°13'59 | 19°23 | 1°53 | 28°32 | 2°27 | 14°40 | 26°40 | 18°50 | 11°21 | 12°52 | 2°28 | 3°25 | 5°44 | n.a. | T 13 |
| W14 | 15 14 10 | 19°11'12 | 3♒41 | 1°39 | 29°41 | 2°58 | 14°33 | 26°47 | 18°52 | 11°23 | 12°53 | 2°D27 | 3°22 | 5°51 | n.a. | W14 |
| T 15 | 15 18 6 | 20° 8'24 | 17°41 | 1°22 | 0♋49 | 3°30 | 14°25 | 26°53 | 18°54 | 11°24 | 12°55 | 2°R28 | 3°19 | 5°57 | n.a. | T 15 |
| F 16 | 15 22 3 | 21° 5'37 | 1♓25 | 1° 0 | 1°57 | 4° 2 | 14°18 | 27° 0 | 18°57 | 11°26 | 12°56 | 2°27 | 3°15 | 6° 4 | n.a. | F 16 |
| S 17 | 15 26 0 | 22° 2'49 | 14°53 | 0°36 | 3° 4 | 4°34 | 14°10 | 27° 7 | 18°59 | 11°27 | 12°57 | 2°25 | 3°12 | 6°11 | n.a. | S 17 |
| S 18 | 15 29 56 | 23° 0'00 | 28° 6 | 0° 8 | 4°12 | 5° 6 | 14° 3 | 27°14 | 19° 2 | 11°29 | 12°59 | 2°21 | 3° 9 | 6°17 | n.a. | S 18 |
| M19 | 15 33 53 | 23°57'12 | 11♈ 6 | 29♉38 | 5°20 | 5°38 | 13°55 | 27°21 | 19° 4 | 11°31 | 13° 0 | 2°14 | 3° 6 | 6°24 | n.a. | M19 |
| T 20 | 15 37 49 | 24°54'23 | 23°54 | 29° 6 | 6°27 | 6°10 | 13°48 | 27°28 | 19° 6 | 11°32 | 13° 2 | 2° 5 | 3° 3 | 6°31 | n.a. | T 20 |
| W21 | 15 41 46 | 25°51'33 | 6♉30 | 28°33 | 7°35 | 6°43 | 13°40 | 27°35 | 19° 9 | 11°34 | 13° 3 | 1°54 | 3° 0 | 6°37 | n.a. | W21 |
| T 22 | 15 45 42 | 26°48'44 | 18°55 | 27°59 | 8°42 | 7°16 | 13°33 | 27°42 | 19°12 | 11°36 | 13° 5 | 1°42 | 2°56 | 6°44 | n.a. | T 22 |
| F 23 | 15 49 39 | 27°45'54 | 1♊ 9 | 27°24 | 9°49 | 7°48 | 13°26 | 27°49 | 19°14 | 11°37 | 13° 6 | 1°31 | 2°53 | 6°51 | n.a. | F 23 |
| S 24 | 15 53 35 | 28°43'04 | 13°14 | 26°50 | 10°56 | 8°21 | 13°19 | 27°56 | 19°17 | 11°39 | 13° 8 | 1°21 | 2°50 | 6°57 | n.a. | S 24 |
| S 25 | 15 57 32 | 29°40'13 | 25°10 | 26°17 | 12° 2 | 8°54 | 13°12 | 28° 3 | 19°20 | 11°41 | 13° 9 | 1°13 | 2°47 | 7° 4 | n.a. | S 25 |
| M26 | 16 1 29 | 0♊37'22 | 7♋ 1 | 25°45 | 13° 9 | 9°28 | 13° 5 | 28°10 | 19°22 | 11°42 | 13°11 | 1° 8 | 2°44 | 7°11 | n.a. | M26 |
| T 27 | 16 5 25 | 1°34'31 | 18°48 | 25°16 | 14°15 | 10° 1 | 12°58 | 28°17 | 19°25 | 11°44 | 13°12 | 1° 5 | 2°40 | 7°17 | n.a. | T 27 |
| W28 | 16 9 22 | 2°31'39 | 0♌35 | 24°48 | 15°22 | 10°34 | 12°51 | 28°25 | 19°28 | 11°46 | 13°14 | 1°D 4 | 2°37 | 7°24 | n.a. | W28 |
| T 29 | 16 13 18 | 3°28'47 | 12°27 | 24°24 | 16°28 | 11° 8 | 12°44 | 28°32 | 19°31 | 11°48 | 13°15 | 1° 5 | 2°34 | 7°31 | n.a. | T 29 |
| F 30 | 16 17 15 | 4°25'55 | 24°29 | 24° 3 | 17°34 | 11°41 | 12°37 | 28°39 | 19°33 | 11°50 | 13°17 | 1° 6 | 2°31 | 7°37 | n.a. | F 30 |
| S 31 | 16 21 11 | 5♊23'01 | 6♍46 | 23♉46 | 18♋39 | 12♌15 | 12♏31 | 28♊46 | 19♋36 | 11♋52 | 13♊18 | 1°R 6 | 2♒28 | 7♋44 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 13n56 | 19n23 | 0s 3 | 22n 1 | 1n55 | 24n51 | 2n 3 | 22n52 | 1n47 | 15s54 | 1n 1 | 23n24 | 0s14 | 22n59 | 0n34 | 23n 1 | 0s13 | 19n46 | 2s49 | 19s33 | 19s27 | 26n11 | | | n.a. |
| F 2 | 14 14 | 15 6 | 1 6 | 22 1 | 1 47 | 25 0 | 2 4 | 22 45 | 1 46 | 15 52 | 1 0 | 23 24 | 0 13 | 22 58 | 0 34 | 23 1 | 0 13 | 19 46 | 2 49 | 19 33 | 19 28 | 26 10 | | | n.a. |
| S 3 | 14 33 | 10 8 | 2 7 | 22 0 | 1 38 | 25 9 | 2 6 | 22 38 | 1 45 | 15 50 | 1 0 | 23 24 | 0 13 | 22 58 | 0 34 | 23 1 | 0 13 | 19 46 | 2 49 | 19 33 | 19 29 | 26 9 | | | n.a. |
| S 4 | 14 52 | 4 37 | 3 4 | 21 57 | 1 28 | 25 17 | 2 7 | 22 31 | 1 44 | 15 48 | 1 0 | 23 25 | 0 13 | 22 58 | 0 34 | 23 1 | 0 13 | 19 47 | 2 49 | 19 34 | 19 30 | 26 8 | | | n.a. |
| M 5 | 15 10 | 1s14 | 3 54 | 21 51 | 1 17 | 25 24 | 2 8 | 22 24 | 1 42 | 15 46 | 1 0 | 23 25 | 0 13 | 22 57 | 0 34 | 23 1 | 0 13 | 19 47 | 2 49 | 19 35 | 19 30 | 26 7 | | | n.a. |
| T 6 | 15 28 | 7 13 | 4 32 | 21 44 | 1 5 | 25 31 | 2 10 | 22 16 | 1 41 | 15 43 | 1 0 | 23 25 | 0 13 | 22 57 | 0 34 | 23 1 | 0 13 | 19 47 | 2 48 | 19 37 | 19 31 | 26 6 | | | n.a. |
| W 7 | 15 46 | 13 3 | 4 55 | 21 36 | 0 52 | 25 37 | 2 11 | 22 9 | 1 40 | 15 41 | 1 0 | 23 26 | 0 13 | 22 57 | 0 34 | 23 1 | 0 13 | 19 47 | 2 48 | 19 39 | 19 32 | 26 5 | | | n.a. |
| T 8 | 16 3 | 18 21 | 5 1 | 21 25 | 0 39 | 25 42 | 2 12 | 22 1 | 1 39 | 15 39 | 1 0 | 23 26 | 0 13 | 22 57 | 0 34 | 23 1 | 0 13 | 19 48 | 2 48 | 19 42 | 19 33 | 26 4 | | | n.a. |
| F 9 | 16 20 | 22 41 | 4 47 | 21 13 | 0 25 | 25 47 | 2 13 | 21 53 | 1 38 | 15 37 | 1 0 | 23 26 | 0 13 | 22 56 | 0 34 | 23 1 | 0 13 | 19 48 | 2 48 | 19 44 | 19 33 | 26 3 | | | n.a. |
| S 10 | 16 37 | 25 35 | 4 14 | 20 59 | 0 10 | 25 50 | 2 14 | 21 46 | 1 37 | 15 35 | 1 0 | 23 26 | 0 13 | 22 56 | 0 34 | 23 0 | 0 13 | 19 48 | 2 48 | 19 46 | 19 34 | 26 1 | | | n.a. |
| S 11 | 16 54 | 26 44 | 3 24 | 20 44 | 0s 6 | 25 53 | 2 14 | 21 38 | 1 36 | 15 33 | 0 59 | 23 27 | 0 13 | 22 56 | 0 34 | 23 0 | 0 13 | 19 48 | 2 48 | 19 48 | 19 35 | 26 0 | | | n.a. |
| M12 | 17 11 | 25 57 | 2 21 | 20 27 | 0 21 | 25 56 | 2 15 | 21 29 | 1 35 | 15 31 | 0 59 | 23 27 | 0 12 | 22 55 | 0 34 | 23 0 | 0 13 | 19 49 | 2 48 | 19 49 | 19 36 | 25 59 | | | n.a. |
| T 13 | 17 27 | 23 25 | 1 9 | 20 9 | 0 38 | 25 57 | 2 16 | 21 21 | 1 34 | 15 28 | 0 59 | 23 27 | 0 12 | 22 55 | 0 34 | 23 0 | 0 13 | 19 49 | 2 48 | 19 50 | 19 36 | 25 58 | | | n.a. |
| W14 | 17 43 | 19 26 | 0n 6 | 19 50 | 0 54 | 25 58 | 2 16 | 21 13 | 1 33 | 15 26 | 0 59 | 23 28 | 0 12 | 22 55 | 0 34 | 23 0 | 0 13 | 19 49 | 2 48 | 19 50 | 19 37 | 25 57 | | | n.a. |
| T 15 | 17 58 | 14 26 | 1 20 | 19 30 | 1 11 | 25 59 | 2 17 | 21 4 | 1 32 | 15 24 | 0 59 | 23 28 | 0 12 | 22 54 | 0 34 | 23 0 | 0 13 | 19 49 | 2 48 | 19 50 | 19 38 | 25 56 | | | n.a. |
| F 16 | 18 14 | 8 48 | 2 27 | 19 9 | 1 28 | 25 58 | 2 17 | 20 56 | 1 31 | 15 22 | 0 59 | 23 28 | 0 12 | 22 54 | 0 33 | 23 0 | 0 13 | 19 50 | 2 48 | 19 50 | 19 39 | 25 55 | | | n.a. |
| S 17 | 18 29 | 2 52 | 3 25 | 18 47 | 1 45 | 25 57 | 2 17 | 20 47 | 1 30 | 15 20 | 0 59 | 23 28 | 0 12 | 22 54 | 0 33 | 23 0 | 0 13 | 19 50 | 2 48 | 19 50 | 19 39 | 25 54 | | | n.a. |
| S 18 | 18 44 | 3n 4 | 4 11 | 18 25 | 2 2 | 25 55 | 2 17 | 20 38 | 1 29 | 15 18 | 0 59 | 23 29 | 0 12 | 22 53 | 0 33 | 23 0 | 0 13 | 19 50 | 2 47 | 19 51 | 19 40 | 25 53 | | | n.a. |
| M19 | 18 58 | 8 46 | 4 43 | 18 3 | 2 18 | 25 53 | 2 17 | 20 29 | 1 28 | 15 16 | 0 58 | 23 29 | 0 12 | 22 53 | 0 33 | 22 59 | 0 13 | 19 51 | 2 47 | 19 53 | 19 41 | 25 52 | | | n.a. |
| T 20 | 19 12 | 14 0 | 5 0 | 17 41 | 2 34 | 25 50 | 2 17 | 20 20 | 1 27 | 15 14 | 0 58 | 23 29 | 0 12 | 22 53 | 0 33 | 22 59 | 0 13 | 19 51 | 2 47 | 19 55 | 19 42 | 25 51 | | | n.a. |
| W21 | 19 26 | 18 34 | 5 2 | 17 19 | 2 49 | 25 46 | 2 17 | 20 11 | 1 26 | 15 12 | 0 58 | 23 29 | 0 11 | 22 52 | 0 33 | 22 59 | 0 13 | 19 51 | 2 47 | 19 57 | 19 42 | 25 49 | | | n.a. |
| T 22 | 19 40 | 22 16 | 4 49 | 16 57 | 3 3 | 25 41 | 2 17 | 20 1 | 1 25 | 15 10 | 0 58 | 23 30 | 0 11 | 22 52 | 0 33 | 22 59 | 0 13 | 19 51 | 2 47 | 20 0 | 19 43 | 25 48 | | | n.a. |
| F 23 | 19 53 | 24 55 | 4 24 | 16 37 | 3 16 | 25 36 | 2 16 | 19 52 | 1 24 | 15 8 | 0 58 | 23 30 | 0 11 | 22 51 | 0 33 | 22 59 | 0 12 | 19 52 | 2 47 | 20 3 | 19 44 | 25 47 | | | n.a. |
| S 24 | 20 6 | 26 23 | 3 46 | 16 17 | 3 29 | 25 30 | 2 16 | 19 42 | 1 23 | 15 6 | 0 58 | 23 30 | 0 11 | 22 51 | 0 33 | 22 59 | 0 12 | 19 52 | 2 47 | 20 5 | 19 45 | 25 46 | | | n.a. |
| S 25 | 20 18 | 26 36 | 3 0 | 15 59 | 3 40 | 25 24 | 2 15 | 19 32 | 1 22 | 15 4 | 0 57 | 23 30 | 0 11 | 22 51 | 0 33 | 22 59 | 0 12 | 19 52 | 2 47 | 20 6 | 19 45 | 25 45 | | | n.a. |
| M26 | 20 30 | 25 36 | 2 5 | 15 42 | 3 50 | 25 16 | 2 14 | 19 22 | 1 21 | 15 2 | 0 57 | 23 30 | 0 11 | 22 50 | 0 33 | 22 58 | 0 12 | 19 52 | 2 47 | 20 8 | 19 46 | 25 44 | | | n.a. |
| T 27 | 20 42 | 23 27 | 1 5 | 15 26 | 3 58 | 25 8 | 2 13 | 19 12 | 1 20 | 15 0 | 0 57 | 23 31 | 0 11 | 22 50 | 0 33 | 22 58 | 0 12 | 19 53 | 2 47 | 20 8 | 19 47 | 25 42 | | | n.a. |
| W28 | 20 54 | 20 17 | 0 3 | 15 13 | 4 5 | 25 0 | 2 12 | 19 2 | 1 19 | 14 58 | 0 57 | 23 31 | 0 11 | 22 49 | 0 33 | 22 58 | 0 12 | 19 53 | 2 47 | 20 8 | 19 47 | 25 41 | | | n.a. |
| T 29 | 21 5 | 16 17 | 1s 1 | 15 2 | 4 11 | 24 51 | 2 11 | 18 52 | 1 18 | 14 56 | 0 57 | 23 31 | 0 11 | 22 49 | 0 33 | 22 58 | 0 12 | 19 53 | 2 47 | 20 8 | 19 48 | 25 40 | | | n.a. |
| F 30 | 21 16 | 11 35 | 2 2 | 14 52 | 4 15 | 24 41 | 2 10 | 18 42 | 1 17 | 14 54 | 0 56 | 23 31 | 0 11 | 22 48 | 0 33 | 22 58 | 0 12 | 19 53 | 2 47 | 20 8 | 19 49 | 25 39 | | | n.a. |
| S 31 | 21n26 | 6n21 | 3s 0 | 14n45 | 4s18 | 24n31 | 2n 9 | 18n31 | 1n16 | 14s52 | 0n56 | 23n31 | 0s11 | 22n48 | 0n33 | 22n58 | 0s12 | 19n54 | 2s47 | 20s 8 | 19s50 | 25n38 | | | n.a. |

Julian Day Number = 1700358.5, Delta T = 03h05m53s
Ecliptic obliquity = 23°42'13, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°51'36, Lahiri = - 4°44'35 Julian Calendar 1 May 58 BCE == Greg. Calendar 29 Apr. 058 BCE

The year -57 astronomical counting style corresponds to year 058 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 58 BCE
# geocentric

## JUNE 58 BCE (-57) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 25 8 | 6♊20'08 | 19♍22 | 23°R34 | 19♋45 | 12♌49 | 12°R24 | 28♊54 | 19♋39 | 11♋53 | 13♊20 | 1°R 5 | 2♒25 | 7♋51 | n.a. | S 1 |
| M 2 | 16 29 5 | 7°17'14 | 2♎23 | 23♉25 | 20°50 | 13°23 | 12♏18 | 29° 1 | 19°42 | 11°55 | 13°21 | 1♒ 2 | 2°21 | 7°57 | n.a. | M 2 |
| T 3 | 16 33 1 | 8°14'20 | 15°51 | 23°D21 | 21°55 | 13°57 | 12°12 | 29° 9 | 19°45 | 11°57 | 13°23 | 0°57 | 2°18 | 8° 4 | n.a. | T 3 |
| W 4 | 16 36 58 | 9°11'26 | 29°49 | 23°22 | 23° 0 | 14°31 | 12° 6 | 29°16 | 19°48 | 11°59 | 13°24 | 0°51 | 2°15 | 8°11 | n.a. | W 4 |
| T 5 | 16 40 54 | 10° 8'31 | 14♏13 | 23°28 | 24° 5 | 15° 6 | 12° 0 | 29°24 | 19°51 | 12° 1 | 13°26 | 0°44 | 2°12 | 8°17 | n.a. | T 5 |
| F 6 | 16 44 51 | 11° 5'37 | 29° 0 | 23°38 | 25°10 | 15°40 | 11°54 | 29°31 | 19°54 | 12° 3 | 13°27 | 0°36 | 2° 9 | 8°24 | n.a. | F 6 |
| S 7 | 16 48 47 | 12° 2'43 | 14♐ 2 | 23°54 | 26°14 | 16°15 | 11°48 | 29°39 | 19°57 | 12° 5 | 13°29 | 0°29 | 2° 6 | 8°31 | n.a. | S 7 |
| S 8 | 16 52 44 | 12°59'49 | 29° 9 | 24°15 | 27°18 | 16°49 | 11°43 | 29°46 | 20° 1 | 12° 7 | 13°30 | 0°24 | 2° 2 | 8°37 | n.a. | S 8 |
| M 9 | 16 56 40 | 13°56'55 | 14♑13 | 24°41 | 28°22 | 17°24 | 11°37 | 29°54 | 20° 4 | 12° 9 | 13°32 | 0°21 | 1°59 | 8°44 | n.a. | M 9 |
| T 10 | 17 0 37 | 14°54'02 | 29° 4 | 25°12 | 29°26 | 17°59 | 11°32 | 0♋ 1 | 20° 7 | 12°11 | 13°33 | 0°D21 | 1°56 | 8°51 | n.a. | T 10 |
| W11 | 17 4 34 | 15°51'09 | 13♒36 | 25°48 | 0♌29 | 18°34 | 11°27 | 0° 9 | 20°10 | 12°13 | 13°35 | 0°21 | 1°53 | 8°57 | n.a. | W11 |
| T 12 | 17 8 30 | 16°48'16 | 27°48 | 26°29 | 1°32 | 19° 9 | 11°21 | 0°16 | 20°13 | 12°15 | 13°36 | 0°22 | 1°50 | 9° 4 | n.a. | T 12 |
| F 13 | 17 12 27 | 17°45'24 | 11♓36 | 27°15 | 2°35 | 19°44 | 11°17 | 0°24 | 20°17 | 12°17 | 13°38 | 0°R23 | 1°46 | 9°11 | n.a. | F 13 |
| S 14 | 17 16 23 | 18°42'33 | 25° 3 | 28° 6 | 3°38 | 20°19 | 11°12 | 0°32 | 20°20 | 12°19 | 13°39 | 0°23 | 1°43 | 9°17 | n.a. | S 14 |
| S 15 | 17 20 20 | 19°39'42 | 8♈ 9 | 29° 2 | 4°40 | 20°54 | 11° 7 | 0°39 | 20°23 | 12°21 | 13°41 | 0°22 | 1°40 | 9°24 | n.a. | S 15 |
| M16 | 17 24 16 | 20°36'52 | 20°59 | 0♊ 2 | 5°42 | 21°30 | 11° 3 | 0°47 | 20°27 | 12°23 | 13°42 | 0°18 | 1°37 | 9°30 | n.a. | M16 |
| T 17 | 17 28 13 | 21°34'03 | 3♉33 | 1° 7 | 6°44 | 22° 5 | 10°58 | 0°55 | 20°30 | 12°25 | 13°44 | 0°13 | 1°34 | 9°37 | n.a. | T 17 |
| W18 | 17 32 9 | 22°31'14 | 15°54 | 2°17 | 7°46 | 22°41 | 10°54 | 1° 3 | 20°33 | 12°28 | 13°45 | 0° 7 | 1°31 | 9°44 | n.a. | W18 |
| T 19 | 17 36 6 | 23°28'27 | 28° 6 | 3°32 | 8°47 | 23°17 | 10°50 | 1°10 | 20°37 | 12°30 | 13°47 | 0° 1 | 1°27 | 9°50 | n.a. | T 19 |
| F 20 | 17 40 3 | 24°25'39 | 10♊ 8 | 4°51 | 9°48 | 23°52 | 10°47 | 1°18 | 20°40 | 12°32 | 13°48 | 29♑54 | 1°24 | 9°57 | n.a. | F 20 |
| S 21 | 17 43 59 | 25°22'53 | 22° 4 | 6°14 | 10°48 | 24°28 | 10°43 | 1°26 | 20°43 | 12°34 | 13°50 | 29°49 | 1°21 | 10° 4 | n.a. | S 21 |
| S 22 | 17 47 56 | 26°20'07 | 3♋54 | 7°42 | 11°49 | 25° 4 | 10°39 | 1°33 | 20°47 | 12°36 | 13°51 | 29°45 | 1°18 | 10°10 | n.a. | S 22 |
| M23 | 17 51 52 | 27°17'22 | 15°42 | 9°14 | 12°49 | 25°41 | 10°36 | 1°41 | 20°50 | 12°38 | 13°53 | 29°42 | 1°15 | 10°17 | n.a. | M23 |
| T 24 | 17 55 49 | 28°14'37 | 27°29 | 10°50 | 13°48 | 26°17 | 10°33 | 1°49 | 20°54 | 12°40 | 13°54 | 29°D41 | 1°12 | 10°24 | n.a. | T 24 |
| W25 | 17 59 45 | 29°11'53 | 9♌18 | 12°29 | 14°48 | 26°53 | 10°30 | 1°57 | 20°57 | 12°43 | 13°56 | 29°42 | 1° 8 | 10°30 | n.a. | W25 |
| T 26 | 18 3 42 | 0♌ 9'10 | 21°12 | 14°13 | 15°47 | 27°30 | 10°27 | 2° 4 | 21° 1 | 12°45 | 13°57 | 29°43 | 1° 5 | 10°37 | n.a. | T 26 |
| F 27 | 18 7 39 | 1° 6'27 | 3♍16 | 16° 0 | 16°45 | 28° 6 | 10°25 | 2°12 | 21° 5 | 12°47 | 13°59 | 29°45 | 1° 2 | 10°44 | n.a. | F 27 |
| S 28 | 18 11 35 | 2° 3'44 | 15°34 | 17°50 | 17°43 | 28°43 | 10°22 | 2°20 | 21° 8 | 12°49 | 14° 0 | 29°46 | 0°59 | 10°50 | n.a. | S 28 |
| S 29 | 18 15 32 | 3° 1'02 | 28° 9 | 19°43 | 18°41 | 29°19 | 10°20 | 2°28 | 21°12 | 12°51 | 14° 2 | 29°R47 | 0°56 | 10°57 | n.a. | S 29 |
| M30 | 18 19 28 | 3♋58'21 | 11♎ 6 | 21♊38 | 19♌38 | 29♌56 | 10♏18 | 2♋36 | 21♋15 | 12♋54 | 14♊ 3 | 29♑47 | 0♒52 | 11♋ 4 | n.a. | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21n36 | 0n44 | 3s50 | 14n41 | 4s19 | 24n20 | 2n 7 | 18n21 | 1n15 | 14s50 | 0n56 | 23n32 | 0s10 | 22n48 | 0n33 | 22n58 | 0s12 | 19n54 | 2s46 | 20s 8 | 19s50 | 25n36 | | n.a. |
| M 2 | 21 46 | 5s 5 | 4 30 | 14 39 | 4 20 | 24 8 | 2 5 | 18 10 | 1 14 | 14 49 | 0 56 | 23 32 | 0 10 | 22 47 | 0 33 | 22 57 | 0 12 | 19 54 | 2 46 | 20 9 | 19 51 | 25 35 | | n.a. |
| T 3 | 21 55 | 10 51 | 4 57 | 14 39 | 4 18 | 23 56 | 2 4 | 17 59 | 1 13 | 14 47 | 0 56 | 23 32 | 0 10 | 22 47 | 0 33 | 22 57 | 0 12 | 19 54 | 2 46 | 20 10 | 19 52 | 25 34 | | n.a. |
| W 4 | 22 4 | 16 18 | 5 7 | 14 41 | 4 16 | 23 43 | 2 2 | 17 48 | 1 12 | 14 45 | 0 55 | 23 32 | 0 10 | 22 46 | 0 33 | 22 57 | 0 12 | 19 55 | 2 46 | 20 11 | 19 53 | 25 33 | | n.a. |
| T 5 | 22 13 | 21 1 | 4 59 | 14 46 | 4 12 | 23 30 | 2 0 | 17 37 | 1 11 | 14 44 | 0 55 | 23 32 | 0 10 | 22 46 | 0 33 | 22 57 | 0 12 | 19 55 | 2 46 | 20 13 | 19 53 | 25 32 | | n.a. |
| F 6 | 22 21 | 24 33 | 4 31 | 14 53 | 4 8 | 23 16 | 1 58 | 17 26 | 1 10 | 14 42 | 0 55 | 23 32 | 0 10 | 22 45 | 0 33 | 22 57 | 0 12 | 19 55 | 2 46 | 20 15 | 19 54 | 25 30 | | n.a. |
| S 7 | 22 29 | 26 26 | 3 43 | 15 3 | 4 2 | 23 1 | 1 55 | 17 14 | 1 9 | 14 41 | 0 55 | 23 32 | 0 10 | 22 45 | 0 33 | 22 57 | 0 12 | 19 55 | 2 46 | 20 16 | 19 55 | 25 29 | | n.a. |
| S 8 | 22 36 | 26 22 | 2 40 | 15 15 | 3 55 | 22 47 | 1 53 | 17 3 | 1 8 | 14 39 | 0 55 | 23 32 | 0 10 | 22 44 | 0 33 | 22 56 | 0 12 | 19 56 | 2 46 | 20 17 | 19 55 | 25 28 | | n.a. |
| M 9 | 22 44 | 24 22 | 1 26 | 15 28 | 3 48 | 22 31 | 1 51 | 16 51 | 1 7 | 14 37 | 0 54 | 23 33 | 0 10 | 22 44 | 0 33 | 22 56 | 0 12 | 19 56 | 2 46 | 20 18 | 19 56 | 25 27 | | n.a. |
| T 10 | 22 50 | 20 41 | 0 7 | 15 44 | 3 39 | 22 15 | 1 48 | 16 40 | 1 6 | 14 36 | 0 54 | 23 33 | 0 10 | 22 43 | 0 33 | 22 56 | 0 12 | 19 56 | 2 46 | 20 18 | 19 57 | 25 25 | | n.a. |
| W11 | 22 57 | 15 47 | 1n11 | 16 1 | 3 30 | 21 59 | 1 45 | 16 28 | 1 5 | 14 35 | 0 54 | 23 33 | 0 9 | 22 43 | 0 33 | 22 56 | 0 12 | 19 56 | 2 46 | 20 18 | 19 58 | 25 24 | | n.a. |
| T 12 | 23 2 | 10 8 | 2 23 | 16 21 | 3 20 | 21 42 | 1 42 | 16 16 | 1 4 | 14 33 | 0 54 | 23 33 | 0 9 | 22 42 | 0 33 | 22 56 | 0 12 | 19 56 | 2 46 | 20 18 | 19 58 | 25 23 | | n.a. |
| F 13 | 23 8 | 4 8 | 3 25 | 16 41 | 3 9 | 21 24 | 1 39 | 16 4 | 1 3 | 14 32 | 0 53 | 23 33 | 0 9 | 22 42 | 0 33 | 22 56 | 0 12 | 19 57 | 2 46 | 20 17 | 19 59 | 25 22 | | n.a. |
| S 14 | 23 13 | 1n53 | 4 13 | 17 4 | 2 58 | 21 6 | 1 36 | 15 52 | 1 3 | 14 31 | 0 53 | 23 33 | 0 9 | 22 41 | 0 33 | 22 55 | 0 12 | 19 57 | 2 46 | 20 17 | 20 0 | 25 20 | | n.a. |
| S 15 | 23 18 | 7 40 | 4 47 | 17 27 | 2 46 | 20 48 | 1 33 | 15 39 | 1 2 | 14 29 | 0 53 | 23 33 | 0 9 | 22 41 | 0 33 | 22 55 | 0 12 | 19 57 | 2 46 | 20 18 | 20 0 | 25 19 | | n.a. |
| M16 | 23 22 | 12 59 | 5 6 | 17 52 | 2 34 | 20 29 | 1 29 | 15 27 | 1 1 | 14 28 | 0 53 | 23 33 | 0 9 | 22 40 | 0 33 | 22 55 | 0 12 | 19 57 | 2 46 | 20 18 | 20 1 | 25 18 | | n.a. |
| T 17 | 23 26 | 17 41 | 5 10 | 18 18 | 2 22 | 20 10 | 1 25 | 15 15 | 1 0 | 14 27 | 0 52 | 23 33 | 0 9 | 22 40 | 0 33 | 22 55 | 0 12 | 19 58 | 2 46 | 20 20 | 20 2 | 25 16 | | n.a. |
| W18 | 23 29 | 21 32 | 4 59 | 18 44 | 2 9 | 19 51 | 1 22 | 15 2 | 0 59 | 14 26 | 0 52 | 23 33 | 0 9 | 22 39 | 0 33 | 22 55 | 0 12 | 19 58 | 2 45 | 20 21 | 20 3 | 25 15 | | n.a. |
| T 19 | 23 32 | 24 24 | 4 34 | 19 11 | 1 56 | 19 31 | 1 18 | 14 49 | 0 58 | 14 25 | 0 52 | 23 33 | 0 9 | 22 39 | 0 33 | 22 54 | 0 12 | 19 58 | 2 45 | 20 22 | 20 3 | 25 14 | | n.a. |
| F 20 | 23 35 | 26 8 | 3 58 | 19 39 | 1 43 | 19 10 | 1 14 | 14 36 | 0 57 | 14 24 | 0 52 | 23 33 | 0 9 | 22 38 | 0 33 | 22 54 | 0 12 | 19 58 | 2 45 | 20 24 | 20 4 | 25 12 | | n.a. |
| S 21 | 23 37 | 26 38 | 3 11 | 20 7 | 1 30 | 18 50 | 1 10 | 14 24 | 0 56 | 14 23 | 0 52 | 23 33 | 0 9 | 22 38 | 0 33 | 22 54 | 0 12 | 19 59 | 2 45 | 20 25 | 20 5 | 25 11 | | n.a. |
| S 22 | 23 39 | 25 55 | 2 16 | 20 35 | 1 16 | 18 29 | 1 5 | 14 10 | 0 55 | 14 22 | 0 51 | 23 33 | 0 8 | 22 37 | 0 33 | 22 54 | 0 12 | 19 59 | 2 45 | 20 26 | 20 5 | 25 10 | | n.a. |
| M23 | 23 41 | 24 1 | 1 16 | 21 2 | 1 3 | 18 7 | 1 1 | 13 57 | 0 55 | 14 22 | 0 51 | 23 33 | 0 8 | 22 37 | 0 33 | 22 54 | 0 12 | 19 59 | 2 45 | 20 26 | 20 6 | 25 8 | | n.a. |
| T 24 | 23 41 | 21 6 | 0 12 | 21 30 | 0 50 | 17 45 | 0 56 | 13 44 | 0 54 | 14 21 | 0 51 | 23 33 | 0 8 | 22 36 | 0 33 | 22 54 | 0 12 | 19 59 | 2 45 | 20 26 | 20 7 | 25 7 | | n.a. |
| W25 | 23 42 | 17 17 | 0s53 | 21 56 | 0 37 | 17 23 | 0 51 | 13 31 | 0 53 | 14 20 | 0 51 | 23 33 | 0 8 | 22 36 | 0 33 | 22 53 | 0 12 | 19 59 | 2 45 | 20 26 | 20 8 | 25 6 | | n.a. |
| T 26 | 23 42 | 12 46 | 1 55 | 22 22 | 0 24 | 17 1 | 0 46 | 13 17 | 0 52 | 14 19 | 0 50 | 23 33 | 0 8 | 22 35 | 0 33 | 22 53 | 0 12 | 20 0 | 2 45 | 20 26 | 20 8 | 25 4 | | n.a. |
| F 27 | 23 42 | 7 43 | 2 54 | 22 46 | 0 11 | 16 39 | 0 41 | 13 4 | 0 51 | 14 19 | 0 50 | 23 33 | 0 8 | 22 34 | 0 33 | 22 53 | 0 12 | 20 0 | 2 45 | 20 26 | 20 9 | 25 3 | | n.a. |
| S 28 | 23 41 | 2 17 | 3 46 | 23 9 | 0n 1 | 16 16 | 0 36 | 12 50 | 0 50 | 14 18 | 0 50 | 23 33 | 0 8 | 22 34 | 0 33 | 22 53 | 0 12 | 20 0 | 2 45 | 20 25 | 20 10 | 25 1 | | n.a. |
| S 29 | 23 40 | 3s21 | 4 28 | 23 30 | 0 13 | 15 53 | 0 31 | 12 36 | 0 49 | 14 18 | 0 50 | 23 33 | 0 8 | 22 33 | 0 33 | 22 53 | 0 12 | 20 0 | 2 45 | 20 25 | 20 10 | 25 0 | | n.a. |
| M30 | 23n39 | 9s 0 | 4s58 | 23n50 | 0n24 | 15n29 | 0n25 | 12n22 | 0n48 | 14s17 | 0n49 | 23n33 | 0s 8 | 22n33 | 0n33 | 22n52 | 0s12 | 20n 0 | 2s45 | 20s25 | 20s11 | 24n59 | | n.a. |

Julian Day Number = 1700389.5, Delta T = 03h05m52s
Ecliptic obliquity = 23°42'12, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°51'31, Lahiri = - 4°44'31 Julian Calendar 1 June 58 BCE == Greg. Calendar 30 May 058 BCE

The year -57 astronomical counting style corresponds to year 058 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 58 BCE
# geocentric

## JULY 58 BCE (-57) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 23 25 | 4♋55'40 | 24♎29 | 23♊36 | 20♌35 | 0♍33 | 10°R16 | 2♋43 | 21♋19 | 12♋56 | 14♊ 4 | 29°R46 | 0♒49 | 11♋10 | n.a. | T 1 |
| W 2 | 18 27 21 | 5°53'00 | 8♏20 | 25°36 | 21°32 | 1°10 | 10♏14 | 2°51 | 21°22 | 12°58 | 14° 6 | 29♑44 | 0°46 | 11°17 | n.a. | W 2 |
| T 3 | 18 31 18 | 6°50'21 | 22°38 | 27°38 | 22°27 | 1°47 | 10°13 | 2°59 | 21°26 | 13° 0 | 14° 7 | 29°41 | 0°43 | 11°24 | n.a. | T 3 |
| F 4 | 18 35 14 | 7°47'42 | 7♐21 | 29°41 | 23°23 | 2°24 | 10°12 | 3° 7 | 21°30 | 13° 2 | 14° 9 | 29°38 | 0°40 | 11°30 | n.a. | F 4 |
| S 5 | 18 39 11 | 8°45'05 | 22°22 | 1♋44 | 24°18 | 3° 1 | 10°10 | 3°14 | 21°33 | 13° 5 | 14°10 | 29°35 | 0°37 | 11°37 | n.a. | S 5 |
| S 6 | 18 43 8 | 9°42'28 | 7♑34 | 3°49 | 25°12 | 3°38 | 10° 9 | 3°22 | 21°37 | 13° 7 | 14°12 | 29°33 | 0°33 | 11°44 | n.a. | S 6 |
| M 7 | 18 47 4 | 10°39'53 | 22°47 | 5°54 | 26° 6 | 4°16 | 10° 9 | 3°30 | 21°41 | 13° 9 | 14°13 | 29°D33 | 0°30 | 11°50 | n.a. | M 7 |
| T 8 | 18 51 1 | 11°37'18 | 7♒51 | 7°59 | 26°59 | 4°53 | 10° 8 | 3°38 | 21°44 | 13°11 | 14°14 | 29°33 | 0°27 | 11°57 | n.a. | T 8 |
| W 9 | 18 54 57 | 12°34'45 | 22°38 | 10° 3 | 27°52 | 5°31 | 10° 8 | 3°45 | 21°48 | 13°14 | 14°16 | 29°33 | 0°24 | 12° 4 | n.a. | W 9 |
| T 10 | 18 58 54 | 13°32'13 | 7♓ 2 | 12° 7 | 28°44 | 6° 8 | 10° 7 | 3°53 | 21°52 | 13°16 | 14°17 | 29°34 | 0°21 | 12°10 | n.a. | T 10 |
| F 11 | 19 2 50 | 14°29'43 | 21° 1 | 14°11 | 29°36 | 6°46 | 10°D 7 | 4° 1 | 21°55 | 13°18 | 14°18 | 29°36 | 0°18 | 12°17 | n.a. | F 11 |
| S 12 | 19 6 47 | 15°27'14 | 4♈34 | 16°14 | 0♍27 | 7°24 | 10° 8 | 4° 8 | 21°59 | 13°20 | 14°20 | 29°36 | 0°14 | 12°24 | n.a. | S 12 |
| S 13 | 19 10 43 | 16°24'46 | 17°42 | 18°15 | 1°17 | 8° 2 | 10° 8 | 4°16 | 22° 3 | 13°23 | 14°21 | 29°R37 | 0°11 | 12°30 | n.a. | S 13 |
| M14 | 19 14 40 | 17°22'20 | 0♉29 | 20°16 | 2° 6 | 8°40 | 10° 8 | 4°24 | 22° 7 | 13°25 | 14°22 | 29°36 | 0° 8 | 12°37 | n.a. | M14 |
| T 15 | 19 18 37 | 18°19'56 | 12°57 | 22°16 | 2°55 | 9°18 | 10° 9 | 4°31 | 22°10 | 13°27 | 14°24 | 29°35 | 0° 5 | 12°43 | n.a. | T 15 |
| W16 | 19 22 33 | 19°17'34 | 25°11 | 24°14 | 3°43 | 9°56 | 10°10 | 4°39 | 22°14 | 13°29 | 14°25 | 29°34 | 0° 2 | 12°50 | n.a. | W16 |
| T 17 | 19 26 30 | 20°15'13 | 7♊13 | 26°11 | 4°31 | 10°34 | 10°11 | 4°46 | 22°18 | 13°31 | 14°26 | 29°33 | 29♑58 | 12°57 | n.a. | T 17 |
| F 18 | 19 30 26 | 21°12'53 | 19° 8 | 28° 7 | 5°17 | 11°12 | 10°12 | 4°54 | 22°21 | 13°34 | 14°27 | 29°32 | 29°55 | 13° 3 | n.a. | F 18 |
| S 19 | 19 34 23 | 22°10'35 | 0♋58 | 0♌ 1 | 6° 3 | 11°51 | 10°14 | 5° 2 | 22°25 | 13°36 | 14°29 | 29°31 | 29°52 | 13°10 | n.a. | S 19 |
| S 20 | 19 38 19 | 23° 8'19 | 12°45 | 1°54 | 6°48 | 12°29 | 10°15 | 5° 9 | 22°29 | 13°38 | 14°30 | 29°30 | 29°49 | 13°17 | n.a. | S 20 |
| M21 | 19 42 16 | 24° 6'04 | 24°33 | 3°45 | 7°32 | 13° 8 | 10°17 | 5°17 | 22°33 | 13°40 | 14°31 | 29°D30 | 29°46 | 13°23 | n.a. | M21 |
| T 22 | 19 46 12 | 25° 3'51 | 6♌23 | 5°36 | 8°15 | 13°47 | 10°19 | 5°24 | 22°36 | 13°42 | 14°32 | 29°30 | 29°43 | 13°30 | n.a. | T 22 |
| W23 | 19 50 9 | 26° 1'39 | 18°18 | 7°24 | 8°57 | 14°25 | 10°21 | 5°32 | 22°40 | 13°45 | 14°34 | 29°30 | 29°39 | 13°37 | n.a. | W23 |
| T 24 | 19 54 6 | 26°59'28 | 0♍20 | 9°12 | 9°38 | 15° 4 | 10°24 | 5°39 | 22°44 | 13°47 | 14°35 | 29°30 | 29°36 | 13°43 | n.a. | T 24 |
| F 25 | 19 58 2 | 27°57'19 | 12°32 | 10°58 | 10°18 | 15°43 | 10°26 | 5°46 | 22°48 | 13°49 | 14°36 | 29°30 | 29°33 | 13°50 | n.a. | F 25 |
| S 26 | 20 1 59 | 28°55'11 | 24°56 | 12°42 | 10°57 | 16°22 | 10°29 | 5°54 | 22°51 | 13°51 | 14°37 | 29°31 | 29°30 | 13°57 | n.a. | S 26 |
| S 27 | 20 5 55 | 29°53'05 | 7♎35 | 14°26 | 11°35 | 17° 1 | 10°32 | 6° 1 | 22°55 | 13°53 | 14°38 | 29°R31 | 29°27 | 14° 3 | n.a. | S 27 |
| M28 | 20 9 52 | 0♌51'00 | 20°33 | 16° 7 | 12°11 | 17°40 | 10°35 | 6° 8 | 22°59 | 13°55 | 14°39 | 29°31 | 29°23 | 14°10 | n.a. | M28 |
| T 29 | 20 13 48 | 1°48'56 | 3♏52 | 17°48 | 12°47 | 18°19 | 10°38 | 6°16 | 23° 2 | 13°58 | 14°41 | 29°D31 | 29°20 | 14°17 | n.a. | T 29 |
| W30 | 20 17 45 | 2°46'54 | 17°34 | 19°27 | 13°21 | 18°59 | 10°42 | 6°23 | 23° 6 | 14° 0 | 14°42 | 29°31 | 29°17 | 14°23 | n.a. | W30 |
| T 31 | 20 21 41 | 3♌44'53 | 1♐39 | 21♌ 5 | 13♍54 | 19♍38 | 10♏45 | 6♋30 | 23♋10 | 14♋ 2 | 14♊43 | 29♑31 | 29♑14 | 14♋30 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| T 1 | 23n37 | 14s26 | 5s14 | 24n 7 | 0n34 | 15n 6 | 0n19 | 12n 8 | 0n48 | 14s17 | 0n49 | 23n33 | 0s 8 | 22n32 | 0n33 | 22n52 | 0s12 | 20n 1 | 2s45 | 20s25 | 20s12 | 24n57 | | | n.a. |
| W 2 | 23 34 | 19 20 | 5 11 | 24 22 | 0 44 | 14 42 | 0 14 | 11 54 | 0 47 | 14 17 | 0 49 | 23 33 | 0 8 | 22 32 | 0 33 | 22 52 | 0 12 | 20 1 | 2 45 | 20 26 | 20 12 | 24 56 | | | n.a. |
| T 3 | 23 31 | 23 18 | 4 50 | 24 35 | 0 54 | 14 18 | 0 8 | 11 40 | 0 46 | 14 17 | 0 49 | 23 33 | 0 7 | 22 31 | 0 33 | 22 52 | 0 12 | 20 1 | 2 45 | 20 27 | 20 13 | 24 55 | | | n.a. |
| F 4 | 23 28 | 25 53 | 4 10 | 24 45 | 1 2 | 13 54 | 0 1 | 11 26 | 0 45 | 14 16 | 0 48 | 23 33 | 0 7 | 22 30 | 0 33 | 22 52 | 0 12 | 20 1 | 2 45 | 20 27 | 20 14 | 24 53 | | | n.a. |
| S 5 | 23 25 | 26 40 | 3 11 | 24 52 | 1 10 | 13 30 | 0s 5 | 11 12 | 0 44 | 14 16 | 0 48 | 23 32 | 0 7 | 22 30 | 0 33 | 22 51 | 0 12 | 20 1 | 2 45 | 20 28 | 20 15 | 24 52 | | | n.a. |
| S 6 | 23 21 | 25 27 | 1 58 | 24 56 | 1 18 | 13 5 | 0 11 | 10 57 | 0 43 | 14 16 | 0 48 | 23 32 | 0 7 | 22 29 | 0 33 | 22 51 | 0 12 | 20 2 | 2 45 | 20 28 | 20 15 | 24 50 | | | n.a. |
| M 7 | 23 16 | 22 22 | 0 37 | 24 58 | 1 24 | 12 41 | 0 18 | 10 43 | 0 42 | 14 16 | 0 47 | 23 32 | 0 7 | 22 29 | 0 33 | 22 51 | 0 12 | 20 2 | 2 45 | 20 28 | 20 16 | 24 49 | | | n.a. |
| T 8 | 23 11 | 17 46 | 0n46 | 24 57 | 1 29 | 12 16 | 0 25 | 10 28 | 0 42 | 14 16 | 0 47 | 23 32 | 0 7 | 22 28 | 0 33 | 22 51 | 0 12 | 20 2 | 2 45 | 20 28 | 20 17 | 24 47 | | | n.a. |
| W 9 | 23 6 | 12 10 | 2 4 | 24 53 | 1 34 | 11 51 | 0 32 | 10 13 | 0 41 | 14 16 | 0 47 | 23 32 | 0 7 | 22 28 | 0 33 | 22 50 | 0 12 | 20 2 | 2 45 | 20 28 | 20 17 | 24 46 | | | n.a. |
| T 10 | 23 0 | 6 2 | 3 13 | 24 47 | 1 38 | 11 26 | 0 39 | 9 59 | 0 40 | 14 17 | 0 47 | 23 32 | 0 7 | 22 27 | 0 33 | 22 50 | 0 12 | 20 2 | 2 45 | 20 28 | 20 18 | 24 44 | | | n.a. |
| F 11 | 22 54 | 0n12 | 4 8 | 24 37 | 1 42 | 11 1 | 0 46 | 9 44 | 0 39 | 14 17 | 0 46 | 23 32 | 0 7 | 22 26 | 0 33 | 22 50 | 0 12 | 20 3 | 2 45 | 20 28 | 20 19 | 24 43 | | | n.a. |
| S 12 | 22 48 | 6 13 | 4 47 | 24 26 | 1 44 | 10 36 | 0 53 | 9 29 | 0 38 | 14 17 | 0 46 | 23 32 | 0 7 | 22 26 | 0 33 | 22 50 | 0 12 | 20 3 | 2 45 | 20 27 | 20 19 | 24 42 | | | n.a. |
| S 13 | 22 41 | 11 47 | 5 10 | 24 12 | 1 46 | 10 12 | 1 1 | 9 14 | 0 37 | 14 17 | 0 46 | 23 31 | 0 7 | 22 25 | 0 33 | 22 50 | 0 12 | 20 3 | 2 45 | 20 27 | 20 20 | 24 40 | | | n.a. |
| M14 | 22 34 | 16 42 | 5 17 | 23 55 | 1 47 | 9 47 | 1 9 | 8 59 | 0 37 | 14 18 | 0 46 | 23 31 | 0 7 | 22 25 | 0 33 | 22 49 | 0 12 | 20 3 | 2 45 | 20 27 | 20 21 | 24 39 | | | n.a. |
| T 15 | 22 26 | 20 47 | 5 8 | 23 37 | 1 48 | 9 22 | 1 16 | 8 43 | 0 36 | 14 18 | 0 45 | 23 31 | 0 6 | 22 24 | 0 33 | 22 49 | 0 12 | 20 3 | 2 45 | 20 28 | 20 21 | 24 37 | | | n.a. |
| W16 | 22 18 | 23 53 | 4 46 | 23 16 | 1 47 | 8 57 | 1 24 | 8 28 | 0 35 | 14 19 | 0 45 | 23 31 | 0 6 | 22 23 | 0 33 | 22 49 | 0 12 | 20 3 | 2 45 | 20 28 | 20 22 | 24 36 | | | n.a. |
| T 17 | 22 9 | 25 53 | 4 11 | 22 54 | 1 47 | 8 32 | 1 33 | 8 13 | 0 34 | 14 19 | 0 45 | 23 31 | 0 6 | 22 23 | 0 33 | 22 49 | 0 12 | 20 4 | 2 45 | 20 28 | 20 23 | 24 34 | | | n.a. |
| F 18 | 22 1 | 26 40 | 3 26 | 22 29 | 1 45 | 8 7 | 1 41 | 7 57 | 0 33 | 14 20 | 0 45 | 23 30 | 0 6 | 22 22 | 0 33 | 22 49 | 0 12 | 20 4 | 2 45 | 20 28 | 20 23 | 24 33 | | | n.a. |
| S 19 | 21 51 | 26 14 | 2 32 | 22 3 | 1 43 | 7 42 | 1 49 | 7 42 | 0 33 | 14 21 | 0 44 | 23 30 | 0 6 | 22 22 | 0 33 | 22 48 | 0 12 | 20 4 | 2 45 | 20 29 | 20 24 | 24 31 | | | n.a. |
| S 20 | 21 42 | 24 36 | 1 32 | 21 36 | 1 41 | 7 17 | 1 58 | 7 26 | 0 32 | 14 21 | 0 44 | 23 30 | 0 6 | 22 21 | 0 33 | 22 48 | 0 12 | 20 4 | 2 45 | 20 29 | 20 25 | 24 30 | | | n.a. |
| M21 | 21 32 | 21 54 | 0 27 | 21 7 | 1 38 | 6 53 | 2 7 | 7 10 | 0 31 | 14 22 | 0 44 | 23 30 | 0 6 | 22 20 | 0 33 | 22 48 | 0 12 | 20 4 | 2 44 | 20 29 | 20 25 | 24 28 | | | n.a. |
| T 22 | 21 21 | 18 16 | 0s38 | 20 37 | 1 35 | 6 28 | 2 16 | 6 55 | 0 30 | 14 23 | 0 44 | 23 30 | 0 6 | 22 20 | 0 33 | 22 48 | 0 12 | 20 4 | 2 44 | 20 29 | 20 26 | 24 27 | | | n.a. |
| W23 | 21 11 | 13 53 | 1 43 | 20 5 | 1 31 | 6 4 | 2 25 | 6 39 | 0 29 | 14 24 | 0 43 | 23 29 | 0 6 | 22 19 | 0 33 | 22 47 | 0 12 | 20 5 | 2 44 | 20 29 | 20 27 | 24 25 | | | n.a. |
| T 24 | 20 59 | 8 56 | 2 43 | 19 33 | 1 27 | 5 40 | 2 34 | 6 23 | 0 28 | 14 25 | 0 43 | 23 29 | 0 6 | 22 18 | 0 33 | 22 47 | 0 12 | 20 5 | 2 44 | 20 29 | 20 27 | 24 23 | | | n.a. |
| F 25 | 20 48 | 3 35 | 3 37 | 18 59 | 1 22 | 5 16 | 2 43 | 6 7 | 0 28 | 14 26 | 0 43 | 23 29 | 0 6 | 22 18 | 0 33 | 22 47 | 0 12 | 20 5 | 2 44 | 20 29 | 20 28 | 24 22 | | | n.a. |
| S 26 | 20 36 | 1s58 | 4 22 | 18 25 | 1 17 | 4 53 | 2 53 | 5 51 | 0 27 | 14 27 | 0 43 | 23 29 | 0 5 | 22 17 | 0 33 | 22 47 | 0 12 | 20 5 | 2 44 | 20 29 | 20 29 | 24 20 | | | n.a. |
| S 27 | 20 24 | 7 33 | 4 55 | 17 50 | 1 12 | 4 29 | 3 3 | 5 35 | 0 26 | 14 28 | 0 43 | 23 28 | 0 5 | 22 17 | 0 33 | 22 47 | 0 12 | 20 5 | 2 44 | 20 29 | 20 30 | 24 19 | | | n.a. |
| M28 | 20 11 | 12 57 | 5 14 | 17 14 | 1 6 | 4 6 | 3 13 | 5 19 | 0 25 | 14 30 | 0 42 | 23 28 | 0 5 | 22 16 | 0 33 | 22 46 | 0 12 | 20 5 | 2 44 | 20 29 | 20 30 | 24 17 | | | n.a. |
| T 29 | 19 58 | 17 54 | 5 17 | 16 38 | 1 1 | 3 43 | 3 22 | 5 3 | 0 24 | 14 31 | 0 42 | 23 28 | 0 5 | 22 15 | 0 33 | 22 46 | 0 12 | 20 5 | 2 44 | 20 29 | 20 31 | 24 16 | | | n.a. |
| W30 | 19 45 | 22 5 | 5 2 | 16 0 | 0 54 | 3 21 | 3 33 | 4 46 | 0 24 | 14 32 | 0 42 | 23 28 | 0 5 | 22 15 | 0 33 | 22 46 | 0 12 | 20 6 | 2 44 | 20 29 | 20 32 | 24 14 | | | n.a. |
| T 31 | 19n32 | 25s 7 | 4s29 | 15n23 | 0n48 | 2n59 | 3s43 | 4n30 | 0n23 | 14s33 | 0n42 | 23n27 | 0s 5 | 22n14 | 0n33 | 22n46 | 0s12 | 20n 6 | 2s44 | 20s29 | 20s32 | 24n13 | | | n.a. |

Julian Day Number = 1700419.5, Delta T = 03h05m51s
Ecliptic obliquity = 23°42'11, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°51'27, Lahiri = - 4°44'27 Julian Calendar 1 July 58 BCE == Greg. Calendar 29 June 058 BCE

The year -57 astronomical counting style corresponds to year 058 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 58 BCE
# geocentric

## AUGUST 58 BCE (-57) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 20 25 38 | 4♌42'54 | 16♐ 7 | 22♌42 | 14♍25 | 20♍17 | 10♏49 | 6♋37 | 23♋13 | 14♋ 4 | 14♊44 | 29♂31 | 29♂11 | 14♋37 | n.a. | F 1 |
| S 2 | 20 29 35 | 5°40'56 | 0♑54 | 24°17 | 14°55 | 20°57 | 10°53 | 6°44 | 23°17 | 14° 6 | 14°45 | 29°32 | 29° 8 | 14°43 | n.a. | S 2 |
| S 3 | 20 33 31 | 6°39'00 | 15°55 | 25°51 | 15°24 | 21°36 | 10°57 | 6°52 | 23°21 | 14° 8 | 14°46 | 29°32 | 29° 4 | 14°50 | n.a. | S 3 |
| M 4 | 20 37 28 | 7°37'06 | 1♒ 2 | 27°24 | 15°51 | 22°16 | 11° 1 | 6°59 | 23°24 | 14°10 | 14°47 | 29°R32 | 29° 1 | 14°57 | n.a. | M 4 |
| T 5 | 20 41 24 | 8°35'13 | 16° 5 | 28°56 | 16°16 | 22°56 | 11° 6 | 7° 6 | 23°28 | 14°12 | 14°48 | 29°32 | 28°58 | 15° 3 | n.a. | T 5 |
| W 6 | 20 45 21 | 9°33'22 | 0♓56 | 0♍26 | 16°40 | 23°36 | 11°10 | 7°13 | 23°32 | 14°14 | 14°49 | 29°31 | 28°55 | 15°10 | n.a. | W 6 |
| T 7 | 20 49 17 | 10°31'33 | 15°29 | 1°55 | 17° 2 | 24°15 | 11°15 | 7°20 | 23°35 | 14°17 | 14°50 | 29°30 | 28°52 | 15°16 | n.a. | T 7 |
| F 8 | 20 53 14 | 11°29'46 | 29°37 | 3°23 | 17°22 | 24°55 | 11°20 | 7°27 | 23°39 | 14°19 | 14°51 | 29°29 | 28°49 | 15°23 | n.a. | F 8 |
| S 9 | 20 57 10 | 12°28'01 | 13♈18 | 4°49 | 17°40 | 25°35 | 11°25 | 7°33 | 23°42 | 14°21 | 14°52 | 29°27 | 28°45 | 15°30 | n.a. | S 9 |
| S 10 | 21 1 7 | 13°26'18 | 26°32 | 6°14 | 17°57 | 26°16 | 11°30 | 7°40 | 23°46 | 14°23 | 14°52 | 29°26 | 28°42 | 15°36 | n.a. | S 10 |
| M11 | 21 5 4 | 14°24'37 | 9♉22 | 7°38 | 18°12 | 26°56 | 11°36 | 7°47 | 23°50 | 14°25 | 14°53 | 29°D26 | 28°39 | 15°43 | n.a. | M11 |
| T 12 | 21 9 0 | 15°22'59 | 21°50 | 9° 0 | 18°24 | 27°36 | 11°41 | 7°54 | 23°53 | 14°27 | 14°54 | 29°26 | 28°36 | 15°50 | n.a. | T 12 |
| W13 | 21 12 57 | 16°21'23 | 4♊ 1 | 10°21 | 18°35 | 28°16 | 11°47 | 8° 0 | 23°57 | 14°28 | 14°55 | 29°26 | 28°33 | 15°56 | n.a. | W13 |
| T 14 | 21 16 53 | 17°19'49 | 16° 0 | 11°40 | 18°43 | 28°57 | 11°53 | 8° 7 | 24° 0 | 14°30 | 14°56 | 29°28 | 28°29 | 16° 3 | n.a. | T 14 |
| F 15 | 21 20 50 | 18°18'17 | 27°51 | 12°58 | 18°49 | 29°37 | 11°59 | 8°14 | 24° 4 | 14°32 | 14°57 | 29°29 | 28°26 | 16°10 | n.a. | F 15 |
| S 16 | 21 24 46 | 19°16'47 | 9♋39 | 14°15 | 18°53 | 0♎18 | 12° 5 | 8°20 | 24° 7 | 14°34 | 14°57 | 29°31 | 28°23 | 16°16 | n.a. | S 16 |
| S 17 | 21 28 43 | 20°15'20 | 21°26 | 15°30 | 18°R55 | 0°59 | 12°12 | 8°27 | 24°11 | 14°36 | 14°58 | 29°32 | 28°20 | 16°23 | n.a. | S 17 |
| M18 | 21 32 39 | 21°13'55 | 3♌17 | 16°43 | 18°54 | 1°39 | 12°18 | 8°33 | 24°14 | 14°38 | 14°59 | 29°R32 | 28°17 | 16°30 | n.a. | M18 |
| T 19 | 21 36 36 | 22°12'32 | 15°14 | 17°54 | 18°52 | 2°20 | 12°25 | 8°39 | 24°17 | 14°40 | 15° 0 | 29°31 | 28°14 | 16°36 | n.a. | T 19 |
| W20 | 21 40 33 | 23°11'10 | 27°19 | 19° 4 | 18°46 | 3° 1 | 12°32 | 8°46 | 24°21 | 14°42 | 15° 0 | 29°29 | 28°10 | 16°43 | n.a. | W20 |
| T 21 | 21 44 29 | 24° 9'51 | 9♍35 | 20°12 | 18°39 | 3°42 | 12°39 | 8°52 | 24°24 | 14°44 | 15° 1 | 29°26 | 28° 7 | 16°50 | n.a. | T 21 |
| F 22 | 21 48 26 | 25° 8'34 | 22° 1 | 21°17 | 18°29 | 4°23 | 12°46 | 8°58 | 24°28 | 14°45 | 15° 2 | 29°22 | 28° 4 | 16°56 | n.a. | F 22 |
| S 23 | 21 52 22 | 26° 7'19 | 4♎40 | 22°20 | 18°16 | 5° 4 | 12°53 | 9° 4 | 24°31 | 14°47 | 15° 2 | 29°17 | 28° 1 | 17° 3 | n.a. | S 23 |
| S 24 | 21 56 19 | 27° 6'05 | 17°32 | 23°21 | 18° 2 | 5°45 | 13° 0 | 9°10 | 24°34 | 14°49 | 15° 3 | 29°13 | 27°58 | 17° 9 | n.a. | S 24 |
| M25 | 22 0 15 | 28° 4'54 | 0♏38 | 24°20 | 17°45 | 6°27 | 13° 8 | 9°16 | 24°37 | 14°51 | 15° 3 | 29°10 | 27°55 | 17°16 | n.a. | M25 |
| T 26 | 22 4 12 | 29° 3'44 | 14° 0 | 25°15 | 17°25 | 7° 8 | 13°15 | 9°22 | 24°41 | 14°52 | 15° 4 | 29° 7 | 27°51 | 17°23 | n.a. | T 26 |
| W27 | 22 8 8 | 0♍ 2'37 | 27°38 | 26° 8 | 17° 4 | 7°49 | 13°23 | 9°28 | 24°44 | 14°54 | 15° 5 | 29°D 6 | 27°48 | 17°29 | n.a. | W27 |
| T 28 | 22 12 5 | 1° 1'31 | 11♐33 | 26°58 | 16°40 | 8°31 | 13°31 | 9°34 | 24°47 | 14°56 | 15° 5 | 29° 7 | 27°45 | 17°36 | n.a. | T 28 |
| F 29 | 22 16 2 | 2° 0'27 | 25°44 | 27°44 | 16°14 | 9°12 | 13°39 | 9°40 | 24°50 | 14°57 | 15° 6 | 29° 8 | 27°42 | 17°43 | n.a. | F 29 |
| S 30 | 22 19 58 | 2°59'24 | 10♑11 | 28°26 | 15°46 | 9°54 | 13°47 | 9°45 | 24°53 | 14°59 | 15° 6 | 29° 9 | 27°39 | 17°49 | n.a. | S 30 |
| S 31 | 22 23 55 | 3♍58'24 | 24♑50 | 29♍ 4 | 15♍17 | 10♎36 | 13♏56 | 9♋51 | 24♋56 | 15♋ 1 | 15♊ 7 | 29°R10 | 27♑35 | 17♋56 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 19n18 | 26s36 | 3s39 | 14n45 | 0n41 | 2n37 | 3s53 | 4n14 | 0n22 | 14s35 | 0n41 | 23n27 | 0s 5 | 22n14 | 0n33 | 22n46 | 0s12 | 20n 6 | 2s44 | 20s29 | 20s33 | 24n11 | | n.a. |
| S 2 | 19 3 | 26 15 | 2 33 | 14 7 | 0 34 | 2 16 | 4 4 | 3 57 | 0 21 | 14 36 | 0 41 | 23 27 | 0 5 | 22 13 | 0 33 | 22 45 | 0 12 | 20 6 | 2 44 | 20 28 | 20 34 | 24 9 | | n.a. |
| S 3 | 18 49 | 23 59 | 1 15 | 13 28 | 0 27 | 1 55 | 4 14 | 3 41 | 0 21 | 14 38 | 0 41 | 23 27 | 0 5 | 22 12 | 0 33 | 22 45 | 0 12 | 20 6 | 2 44 | 20 28 | 20 34 | 24 8 | | n.a. |
| M 4 | 18 34 | 20 1 | 0n 8 | 12 49 | 0 20 | 1 35 | 4 25 | 3 24 | 0 20 | 14 39 | 0 41 | 23 26 | 0 5 | 22 12 | 0 33 | 22 45 | 0 12 | 20 6 | 2 44 | 20 28 | 20 35 | 24 6 | | n.a. |
| T 5 | 18 19 | 14 45 | 1 31 | 12 10 | 0 12 | 1 15 | 4 36 | 3 8 | 0 19 | 14 41 | 0 40 | 23 26 | 0 5 | 22 11 | 0 33 | 22 45 | 0 12 | 20 6 | 2 44 | 20 28 | 20 35 | 24 5 | | n.a. |
| W 6 | 18 3 | 8 41 | 2 46 | 11 31 | 0 5 | 0 56 | 4 46 | 2 51 | 0 18 | 14 43 | 0 40 | 23 26 | 0 5 | 22 10 | 0 33 | 22 44 | 0 12 | 20 6 | 2 44 | 20 29 | 20 36 | 24 3 | | n.a. |
| T 7 | 17 48 | 2 17 | 3 48 | 10 52 | 0s 3 | 0 37 | 4 57 | 2 34 | 0 17 | 14 44 | 0 40 | 23 25 | 0 4 | 22 10 | 0 33 | 22 44 | 0 12 | 20 6 | 2 44 | 20 29 | 20 37 | 24 1 | | n.a. |
| F 8 | 17 31 | 4n 2 | 4 35 | 10 13 | 0 11 | 0 19 | 5 8 | 2 18 | 0 17 | 14 46 | 0 40 | 23 25 | 0 4 | 22 9 | 0 33 | 22 44 | 0 12 | 20 7 | 2 44 | 20 29 | 20 37 | 24 0 | | n.a. |
| S 9 | 17 15 | 9 58 | 5 4 | 9 33 | 0 19 | 0 2 | 5 19 | 2 1 | 0 16 | 14 48 | 0 39 | 23 25 | 0 4 | 22 9 | 0 33 | 22 44 | 0 11 | 20 7 | 2 44 | 20 29 | 20 38 | 23 58 | | n.a. |
| S 10 | 16 58 | 15 15 | 5 16 | 8 54 | 0 27 | 0s15 | 5 30 | 1 44 | 0 15 | 14 50 | 0 39 | 23 25 | 0 4 | 22 8 | 0 33 | 22 44 | 0 11 | 20 7 | 2 44 | 20 30 | 20 39 | 23 56 | | n.a. |
| M11 | 16 41 | 19 41 | 5 12 | 8 15 | 0 35 | 0 31 | 5 41 | 1 27 | 0 14 | 14 52 | 0 39 | 23 24 | 0 4 | 22 7 | 0 33 | 22 43 | 0 11 | 20 7 | 2 44 | 20 30 | 20 39 | 23 55 | | n.a. |
| T 12 | 16 24 | 23 8 | 4 53 | 7 36 | 0 44 | 0 46 | 5 52 | 1 10 | 0 14 | 14 54 | 0 39 | 23 24 | 0 4 | 22 7 | 0 33 | 22 43 | 0 11 | 20 7 | 2 44 | 20 30 | 20 40 | 23 53 | | n.a. |
| W13 | 16 6 | 25 27 | 4 21 | 6 58 | 0 52 | 1 0 | 6 3 | 0 53 | 0 13 | 14 56 | 0 39 | 23 24 | 0 4 | 22 6 | 0 33 | 22 43 | 0 11 | 20 7 | 2 44 | 20 30 | 20 41 | 23 51 | | n.a. |
| T 14 | 15 49 | 26 34 | 3 38 | 6 20 | 1 1 | 1 13 | 6 14 | 0 36 | 0 12 | 14 58 | 0 38 | 23 23 | 0 4 | 22 6 | 0 33 | 22 43 | 0 11 | 20 7 | 2 44 | 20 29 | 20 41 | 23 50 | | n.a. |
| F 15 | 15 31 | 26 27 | 2 46 | 5 42 | 1 9 | 1 26 | 6 25 | 0 19 | 0 11 | 15 0 | 0 38 | 23 23 | 0 4 | 22 5 | 0 33 | 22 43 | 0 11 | 20 7 | 2 44 | 20 29 | 20 42 | 23 48 | | n.a. |
| S 16 | 15 12 | 25 8 | 1 48 | 5 4 | 1 18 | 1 37 | 6 36 | 0 2 | 0 11 | 15 2 | 0 38 | 23 23 | 0 4 | 22 4 | 0 33 | 22 42 | 0 11 | 20 7 | 2 44 | 20 29 | 20 43 | 23 46 | | n.a. |
| S 17 | 14 54 | 22 42 | 0 45 | 4 27 | 1 26 | 1 47 | 6 46 | 0s15 | 0 10 | 15 4 | 0 38 | 23 22 | 0 4 | 22 4 | 0 33 | 22 42 | 0 11 | 20 7 | 2 44 | 20 28 | 20 43 | 23 45 | | n.a. |
| M18 | 14 35 | 19 18 | 0s21 | 3 51 | 1 35 | 1 57 | 6 57 | 0 32 | 0 9 | 15 6 | 0 37 | 23 22 | 0 4 | 22 3 | 0 33 | 22 42 | 0 11 | 20 8 | 2 44 | 20 28 | 20 44 | 23 43 | | n.a. |
| T 19 | 14 16 | 15 5 | 1 26 | 3 15 | 1 43 | 2 5 | 7 7 | 0 49 | 0 8 | 15 8 | 0 37 | 23 22 | 0 3 | 22 3 | 0 33 | 22 42 | 0 11 | 20 8 | 2 44 | 20 29 | 20 45 | 23 41 | | n.a. |
| W20 | 13 56 | 10 14 | 2 27 | 2 40 | 1 51 | 2 12 | 7 17 | 1 6 | 0 8 | 15 11 | 0 37 | 23 21 | 0 3 | 22 2 | 0 33 | 22 42 | 0 11 | 20 8 | 2 44 | 20 29 | 20 45 | 23 40 | | n.a. |
| T 21 | 13 37 | 4 56 | 3 23 | 2 6 | 2 0 | 2 18 | 7 27 | 1 23 | 0 7 | 15 13 | 0 37 | 23 21 | 0 3 | 22 1 | 0 34 | 22 41 | 0 11 | 20 8 | 2 44 | 20 30 | 20 46 | 23 38 | | n.a. |
| F 22 | 13 17 | 0s37 | 4 10 | 1 32 | 2 8 | 2 23 | 7 36 | 1 40 | 0 6 | 15 15 | 0 37 | 23 21 | 0 3 | 22 1 | 0 34 | 22 41 | 0 11 | 20 8 | 2 44 | 20 31 | 20 47 | 23 36 | | n.a. |
| S 23 | 12 57 | 6 13 | 4 45 | 0 59 | 2 16 | 2 26 | 7 45 | 1 57 | 0 5 | 15 18 | 0 36 | 23 20 | 0 3 | 22 0 | 0 34 | 22 41 | 0 11 | 20 8 | 2 44 | 20 32 | 20 47 | 23 35 | | n.a. |
| S 24 | 12 37 | 11 40 | 5 7 | 0 28 | 2 24 | 2 28 | 7 53 | 2 14 | 0 5 | 15 20 | 0 36 | 23 20 | 0 3 | 22 0 | 0 34 | 22 41 | 0 11 | 20 8 | 2 44 | 20 32 | 20 48 | 23 33 | | n.a. |
| M25 | 12 16 | 16 42 | 5 13 | 0s 3 | 2 32 | 2 29 | 8 1 | 2 32 | 0 4 | 15 23 | 0 36 | 23 20 | 0 3 | 21 59 | 0 34 | 22 41 | 0 11 | 20 8 | 2 44 | 20 33 | 20 49 | 23 31 | | n.a. |
| T 26 | 11 56 | 21 1 | 5 3 | 0 32 | 2 40 | 2 28 | 8 9 | 2 49 | 0 3 | 15 25 | 0 36 | 23 19 | 0 3 | 21 59 | 0 34 | 22 40 | 0 11 | 20 8 | 2 44 | 20 34 | 20 49 | 23 29 | | n.a. |
| W27 | 11 35 | 24 19 | 4 35 | 1 0 | 2 47 | 2 26 | 8 16 | 3 6 | 0 2 | 15 28 | 0 36 | 23 19 | 0 3 | 21 58 | 0 34 | 22 40 | 0 11 | 20 8 | 2 44 | 20 34 | 20 50 | 23 28 | | n.a. |
| T 28 | 11 14 | 26 14 | 3 52 | 1 26 | 2 54 | 2 23 | 8 22 | 3 23 | 0 2 | 15 30 | 0 35 | 23 19 | 0 3 | 21 57 | 0 34 | 22 40 | 0 11 | 20 8 | 2 44 | 20 34 | 20 50 | 23 26 | | n.a. |
| F 29 | 10 53 | 26 31 | 2 53 | 1 51 | 3 1 | 2 18 | 8 28 | 3 40 | 0 1 | 15 33 | 0 35 | 23 18 | 0 3 | 21 57 | 0 34 | 22 40 | 0 11 | 20 8 | 2 44 | 20 33 | 20 51 | 23 24 | | n.a. |
| S 30 | 10 31 | 25 0 | 1 42 | 2 14 | 3 7 | 2 12 | 8 32 | 3 58 | 0 0 | 15 36 | 0 35 | 23 18 | 0 2 | 21 56 | 0 34 | 22 40 | 0 11 | 20 8 | 2 44 | 20 33 | 20 52 | 23 22 | | n.a. |
| S 31 | 10n10 | 21s47 | 0s24 | 2s35 | 3s13 | 2s 4 | 8s37 | 4s15 | 0s 1 | 15s38 | 0n35 | 23n18 | 0s 2 | 21n56 | 0n34 | 22n40 | 0s11 | 20n 8 | 2s44 | 20s33 | 20s52 | 23n21 | | n.a. |

Julian Day Number = 1700450.5, Delta T = 03h05m51s
Ecliptic obliquity = 23°42'11, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°51'23, Lahiri = - 4°44'23 Julian Calendar 1 Aug. 58 BCE == Greg. Calendar 30 July 058 BCE

The year -57 astronomical counting style corresponds to year 058 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 58 BCE
# geocentric

## SEPTEMBER 58 BCE (-57) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 22 27 51 | 4♍57'25 | 9♒36 | 29♍38 | 14°R46 | 11♎17 | 14♏ 4 | 9♋57 | 25♋ 0 | 15♋ 2 | 15♊ 7 | 29°R10 | 27♑32 | 18♋ 3 | n.a. | M 1 |
| T 2 | 22 31 48 | 5°56'29 | 24°24 | 0♎ 7 | 14♍13 | 11°59 | 14°13 | 10° 2 | 25° 3 | 15° 4 | 15° 7 | 29♑ 8 | 27°29 | 18° 9 | n.a. | T 2 |
| W 3 | 22 35 44 | 6°55'34 | 9♓ 5 | 0°31 | 13°39 | 12°41 | 14°21 | 10° 7 | 25° 6 | 15° 5 | 15° 8 | 29° 4 | 27°26 | 18°16 | n.a. | W 3 |
| T 4 | 22 39 41 | 7°54'42 | 23°32 | 0°50 | 13° 4 | 13°23 | 14°30 | 10°13 | 25° 9 | 15° 7 | 15° 8 | 28°59 | 27°23 | 18°23 | n.a. | T 4 |
| F 5 | 22 43 37 | 8°53'52 | 7♈40 | 1° 2 | 12°29 | 14° 5 | 14°39 | 10°18 | 25°12 | 15° 8 | 15° 8 | 28°52 | 27°20 | 18°29 | n.a. | F 5 |
| S 6 | 22 47 34 | 9°53'04 | 21°24 | 1°R 8 | 11°52 | 14°47 | 14°48 | 10°23 | 25°14 | 15°10 | 15° 9 | 28°46 | 27°16 | 18°36 | n.a. | S 6 |
| S 7 | 22 51 30 | 10°52'18 | 4♉43 | 1° 7 | 11°16 | 15°29 | 14°57 | 10°28 | 25°17 | 15°11 | 15° 9 | 28°40 | 27°13 | 18°43 | n.a. | S 7 |
| M 8 | 22 55 27 | 11°51'35 | 17°36 | 0°58 | 10°39 | 16°12 | 15° 6 | 10°33 | 25°20 | 15°13 | 15° 9 | 28°35 | 27°10 | 18°49 | n.a. | M 8 |
| T 9 | 22 59 24 | 12°50'54 | 0♊ 7 | 0°42 | 10° 2 | 16°54 | 15°16 | 10°38 | 25°23 | 15°14 | 15°10 | 28°33 | 27° 7 | 18°56 | n.a. | T 9 |
| W10 | 23 3 20 | 13°50'16 | 12°19 | 0°18 | 9°26 | 17°36 | 15°25 | 10°43 | 25°26 | 15°15 | 15°10 | 28°D32 | 27° 4 | 19° 2 | n.a. | W10 |
| T 11 | 23 7 17 | 14°49'40 | 24°18 | 29♍45 | 8°51 | 18°19 | 15°35 | 10°48 | 25°29 | 15°17 | 15°10 | 28°32 | 27° 1 | 19° 9 | n.a. | T 11 |
| F 12 | 23 11 13 | 15°49'07 | 6♋ 9 | 29° 5 | 8°16 | 19° 1 | 15°45 | 10°53 | 25°31 | 15°18 | 15°10 | 28°33 | 26°57 | 19°16 | n.a. | F 12 |
| S 13 | 23 15 10 | 16°48'36 | 17°56 | 28°17 | 7°42 | 19°44 | 15°55 | 10°57 | 25°34 | 15°19 | 15°10 | 28°35 | 26°54 | 19°22 | n.a. | S 13 |
| S 14 | 23 19 6 | 17°48'07 | 29°45 | 27°21 | 7°10 | 20°27 | 16° 5 | 11° 2 | 25°37 | 15°21 | 15°10 | 28°R35 | 26°51 | 19°29 | n.a. | S 14 |
| M15 | 23 23 3 | 18°47'41 | 11♌40 | 26°19 | 6°39 | 21° 9 | 16°15 | 11° 6 | 25°39 | 15°22 | 15°11 | 28°34 | 26°48 | 19°36 | n.a. | M15 |
| T 16 | 23 26 59 | 19°47'16 | 23°45 | 25°11 | 6°10 | 21°52 | 16°25 | 11°11 | 25°42 | 15°23 | 15°11 | 28°31 | 26°45 | 19°42 | n.a. | T 16 |
| W17 | 23 30 56 | 20°46'54 | 6♍ 2 | 24° 0 | 5°43 | 22°35 | 16°35 | 11°15 | 25°44 | 15°24 | 15°11 | 28°25 | 26°41 | 19°49 | n.a. | W17 |
| T 18 | 23 34 53 | 21°46'35 | 18°33 | 22°47 | 5°18 | 23°18 | 16°45 | 11°19 | 25°47 | 15°25 | 15°R11 | 28°18 | 26°38 | 19°56 | n.a. | T 18 |
| F 19 | 23 38 49 | 22°46'17 | 1♎19 | 21°33 | 4°54 | 24° 1 | 16°56 | 11°23 | 25°49 | 15°26 | 15°11 | 28° 8 | 26°35 | 20° 2 | n.a. | F 19 |
| S 20 | 23 42 46 | 23°46'01 | 14°19 | 20°22 | 4°33 | 24°44 | 17° 6 | 11°27 | 25°51 | 15°27 | 15°11 | 27°58 | 26°32 | 20° 9 | n.a. | S 20 |
| S 21 | 23 46 42 | 24°45'48 | 27°32 | 19°15 | 4°14 | 25°27 | 17°17 | 11°31 | 25°54 | 15°28 | 15°11 | 27°48 | 26°29 | 20°16 | n.a. | S 21 |
| M22 | 23 50 39 | 25°45'36 | 10♏57 | 18°14 | 3°58 | 26°11 | 17°28 | 11°35 | 25°56 | 15°29 | 15°11 | 27°40 | 26°26 | 20°22 | n.a. | M22 |
| T 23 | 23 54 35 | 26°45'26 | 24°33 | 17°21 | 3°44 | 26°54 | 17°39 | 11°39 | 25°58 | 15°30 | 15°10 | 27°33 | 26°22 | 20°29 | n.a. | T 23 |
| W24 | 23 58 32 | 27°45'19 | 8♐18 | 16°38 | 3°32 | 27°37 | 17°50 | 11°42 | 26° 1 | 15°31 | 15°10 | 27°29 | 26°19 | 20°36 | n.a. | W24 |
| T 25 | 0 2 28 | 28°45'13 | 22°12 | 16° 5 | 3°23 | 28°21 | 18° 1 | 11°46 | 26° 3 | 15°32 | 15°10 | 27°27 | 26°16 | 20°42 | n.a. | T 25 |
| F 26 | 0 6 25 | 29°45'08 | 6♑15 | 15°44 | 3°16 | 29° 4 | 18°12 | 11°49 | 26° 5 | 15°33 | 15°10 | 27°D27 | 26°13 | 20°49 | n.a. | F 26 |
| S 27 | 0 10 22 | 0♎45'06 | 20°25 | 15°D33 | 3°11 | 29°48 | 18°23 | 11°53 | 26° 7 | 15°34 | 15°10 | 27°R28 | 26°10 | 20°55 | n.a. | S 27 |
| S 28 | 0 14 18 | 1°45'05 | 4♒41 | 15°34 | 3°D 9 | 0♏31 | 18°34 | 11°56 | 26° 9 | 15°35 | 15°10 | 27°28 | 26° 6 | 21° 2 | n.a. | S 28 |
| M29 | 0 18 15 | 2°45'05 | 19° 2 | 15°47 | 3°10 | 1°15 | 18°46 | 11°59 | 26°11 | 15°36 | 15° 9 | 27°26 | 26° 3 | 21° 9 | n.a. | M29 |
| T 30 | 0 22 11 | 3♎45'08 | 3♓23 | 16♍ 9 | 3♍13 | 1♏59 | 18♏57 | 12♋ 2 | 26♋13 | 15♋36 | 15♊ 9 | 27♑22 | 26♑ 0 | 21♋15 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 9n48 | 17s 8 | 0n57 | 2s53 | 3s19 | 1s55 | 8s40 | 4s32 | 0s 1 | 15s41 | 0n35 | 23n17 | 0s 2 | 21n55 | 0n34 | 22n39 | 0s11 | 20n 8 | 2s44 | 20s33 | 20s53 | 23n19 | | n.a. |
| T 2 | 9 26 | 11 27 | 2 13 | 3 9 | 3 24 | 1 45 | 8 42 | 4 49 | 0 2 | 15 44 | 0 34 | 23 17 | 0 2 | 21 55 | 0 34 | 22 39 | 0 11 | 20 8 | 2 44 | 20 33 | 20 54 | 23 17 | | n.a. |
| W 3 | 9 4 | 5 10 | 3 20 | 3 23 | 3 28 | 1 33 | 8 44 | 5 6 | 0 3 | 15 47 | 0 34 | 23 17 | 0 2 | 21 54 | 0 34 | 22 39 | 0 11 | 20 8 | 2 44 | 20 34 | 20 54 | 23 15 | | n.a. |
| T 4 | 8 42 | 1n16 | 4 13 | 3 34 | 3 31 | 1 20 | 8 44 | 5 24 | 0 3 | 15 50 | 0 34 | 23 16 | 0 2 | 21 54 | 0 34 | 22 39 | 0 11 | 20 8 | 2 44 | 20 35 | 20 55 | 23 14 | | n.a. |
| F 5 | 8 19 | 7 30 | 4 49 | 3 41 | 3 34 | 1 7 | 8 44 | 5 41 | 0 4 | 15 52 | 0 34 | 23 16 | 0 2 | 21 53 | 0 34 | 22 39 | 0 11 | 20 8 | 2 44 | 20 37 | 20 55 | 23 12 | | n.a. |
| S 6 | 7 57 | 13 10 | 5 7 | 3 45 | 3 36 | 0 52 | 8 43 | 5 58 | 0 5 | 15 55 | 0 34 | 23 16 | 0 2 | 21 53 | 0 34 | 22 39 | 0 11 | 20 8 | 2 44 | 20 38 | 20 56 | 23 10 | | n.a. |
| S 7 | 7 34 | 18 3 | 5 8 | 3 45 | 3 36 | 0 36 | 8 40 | 6 15 | 0 6 | 15 58 | 0 33 | 23 15 | 0 2 | 21 52 | 0 34 | 22 38 | 0 11 | 20 9 | 2 44 | 20 39 | 20 57 | 23 8 | | n.a. |
| M 8 | 7 11 | 21 57 | 4 53 | 3 41 | 3 36 | 0 19 | 8 37 | 6 32 | 0 6 | 16 1 | 0 33 | 23 15 | 0 2 | 21 52 | 0 34 | 22 38 | 0 11 | 20 9 | 2 44 | 20 40 | 20 57 | 23 6 | | n.a. |
| T 9 | 6 49 | 24 42 | 4 24 | 3 33 | 3 34 | 0 1 | 8 33 | 6 49 | 0 7 | 16 4 | 0 33 | 23 15 | 0 2 | 21 51 | 0 34 | 22 38 | 0 11 | 20 9 | 2 44 | 20 41 | 20 58 | 23 5 | | n.a. |
| W10 | 6 25 | 26 13 | 3 44 | 3 20 | 3 30 | 0n17 | 8 28 | 7 6 | 0 8 | 16 7 | 0 33 | 23 14 | 0 1 | 21 51 | 0 34 | 22 38 | 0 11 | 20 9 | 2 44 | 20 41 | 20 59 | 23 3 | | n.a. |
| T 11 | 6 2 | 26 29 | 2 55 | 3 2 | 3 25 | 0 36 | 8 22 | 7 23 | 0 8 | 16 10 | 0 33 | 23 14 | 0 1 | 21 50 | 0 34 | 22 38 | 0 11 | 20 9 | 2 44 | 20 41 | 20 59 | 23 1 | | n.a. |
| F 12 | 5 39 | 25 32 | 1 58 | 2 40 | 3 19 | 0 55 | 8 15 | 7 40 | 0 9 | 16 13 | 0 33 | 23 14 | 0 1 | 21 50 | 0 34 | 22 38 | 0 11 | 20 9 | 2 44 | 20 41 | 21 0 | 22 59 | | n.a. |
| S 13 | 5 16 | 23 26 | 0 57 | 2 12 | 3 10 | 1 14 | 8 7 | 7 57 | 0 10 | 16 16 | 0 32 | 23 14 | 0 1 | 21 49 | 0 34 | 22 38 | 0 11 | 20 9 | 2 44 | 20 40 | 21 0 | 22 57 | | n.a. |
| S 14 | 4 52 | 20 20 | 0s 6 | 1 40 | 2 59 | 1 34 | 7 59 | 8 14 | 0 11 | 16 19 | 0 32 | 23 13 | 0 1 | 21 49 | 0 34 | 22 37 | 0 11 | 20 9 | 2 45 | 20 40 | 21 1 | 22 55 | | n.a. |
| M15 | 4 29 | 16 21 | 1 10 | 1 4 | 2 47 | 1 54 | 7 50 | 8 31 | 0 11 | 16 22 | 0 32 | 23 13 | 0 1 | 21 48 | 0 34 | 22 37 | 0 11 | 20 9 | 2 45 | 20 40 | 21 2 | 22 54 | | n.a. |
| T 16 | 4 5 | 11 41 | 2 11 | 0 23 | 2 32 | 2 14 | 7 40 | 8 48 | 0 12 | 16 25 | 0 32 | 23 13 | 0 1 | 21 48 | 0 34 | 22 37 | 0 11 | 20 9 | 2 45 | 20 41 | 21 2 | 22 52 | | n.a. |
| W17 | 3 42 | 6 30 | 3 7 | 0n20 | 2 16 | 2 33 | 7 29 | 9 5 | 0 13 | 16 28 | 0 32 | 23 12 | 0 1 | 21 47 | 0 34 | 22 37 | 0 11 | 20 9 | 2 45 | 20 42 | 21 3 | 22 50 | | n.a. |
| T 18 | 3 18 | 0 58 | 3 55 | 1 6 | 1 58 | 2 53 | 7 18 | 9 21 | 0 13 | 16 32 | 0 31 | 23 12 | 0 1 | 21 47 | 0 34 | 22 37 | 0 11 | 20 9 | 2 45 | 20 44 | 21 4 | 22 48 | | n.a. |
| F 19 | 2 54 | 4s41 | 4 33 | 1 52 | 1 39 | 3 12 | 7 7 | 9 38 | 0 14 | 16 35 | 0 31 | 23 12 | 0 1 | 21 47 | 0 34 | 22 37 | 0 11 | 20 9 | 2 45 | 20 46 | 21 4 | 22 46 | | n.a. |
| S 20 | 2 30 | 10 15 | 4 56 | 2 39 | 1 19 | 3 31 | 6 55 | 9 55 | 0 15 | 16 38 | 0 31 | 23 12 | 0 1 | 21 46 | 0 34 | 22 37 | 0 11 | 20 9 | 2 45 | 20 48 | 21 5 | 22 44 | | n.a. |
| S 21 | 2 6 | 15 26 | 5 5 | 3 24 | 0 58 | 3 49 | 6 43 | 10 11 | 0 15 | 16 41 | 0 31 | 23 11 | 0 0 | 21 46 | 0 34 | 22 37 | 0 11 | 20 9 | 2 45 | 20 50 | 21 5 | 22 43 | | n.a. |
| M22 | 1 42 | 19 58 | 4 57 | 4 7 | 0 38 | 4 7 | 6 30 | 10 28 | 0 16 | 16 44 | 0 31 | 23 11 | 0 0 | 21 45 | 0 34 | 22 36 | 0 11 | 20 9 | 2 45 | 20 52 | 21 6 | 22 41 | | n.a. |
| T 23 | 1 18 | 23 30 | 4 32 | 4 47 | 0 18 | 4 24 | 6 17 | 10 44 | 0 17 | 16 48 | 0 31 | 23 11 | 0 0 | 21 45 | 0 34 | 22 36 | 0 11 | 20 9 | 2 45 | 20 53 | 21 7 | 22 39 | | n.a. |
| W24 | 0 54 | 25 44 | 3 51 | 5 22 | 0n 2 | 4 40 | 6 4 | 11 1 | 0 17 | 16 51 | 0 30 | 23 11 | 0 0 | 21 45 | 0 34 | 22 36 | 0 11 | 20 9 | 2 45 | 20 54 | 21 7 | 22 37 | | n.a. |
| T 25 | 0 30 | 26 25 | 2 57 | 5 52 | 0 21 | 4 56 | 5 51 | 11 17 | 0 18 | 16 54 | 0 30 | 23 11 | 0 0 | 21 44 | 0 35 | 22 36 | 0 11 | 20 8 | 2 45 | 20 54 | 21 8 | 22 35 | | n.a. |
| F 26 | 0 6 | 25 24 | 1 51 | 6 16 | 0 38 | 5 11 | 5 37 | 11 33 | 0 19 | 16 57 | 0 30 | 23 10 | 0n 0 | 21 44 | 0 35 | 22 36 | 0 11 | 20 8 | 2 45 | 20 54 | 21 8 | 22 33 | | n.a. |
| S 27 | 0s18 | 22 45 | 0 38 | 6 35 | 0 54 | 5 25 | 5 24 | 11 49 | 0 19 | 17 1 | 0 30 | 23 10 | 0 0 | 21 43 | 0 35 | 22 36 | 0 11 | 20 8 | 2 45 | 20 54 | 21 9 | 22 31 | | n.a. |
| S 28 | 0 42 | 18 41 | 0n38 | 6 48 | 1 8 | 5 38 | 5 10 | 12 6 | 0 20 | 17 4 | 0 30 | 23 10 | 0 0 | 21 43 | 0 35 | 22 36 | 0 11 | 20 8 | 2 45 | 20 54 | 21 10 | 22 29 | | n.a. |
| M29 | 1 6 | 13 30 | 1 52 | 6 55 | 1 21 | 5 51 | 4 57 | 12 22 | 0 21 | 17 7 | 0 30 | 23 10 | 0 0 | 21 43 | 0 35 | 22 36 | 0 11 | 20 8 | 2 45 | 20 54 | 21 10 | 22 27 | | n.a. |
| T 30 | 1s30 | 7s36 | 2n59 | 6n56 | 1n32 | 6n 2 | 4s43 | 12s37 | 0s21 | 17s11 | 0n30 | 23n10 | 0n 0 | 21n42 | 0n35 | 22n36 | 0s11 | 20n 8 | 2s45 | 20s55 | 21s11 | 22n25 | | n.a. |

Julian Day Number = 1700481.5, Delta T = 03h05m50s
Ecliptic obliquity = 23°42'12, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°51'19, Lahiri = - 4°44'18 Julian Calendar 1 Sept. 58 BCE == Greg. Calendar 30 Aug. 058 BCE

The year -57 astronomical counting style corresponds to year 058 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 58 BCE
# geocentric

## OCTOBER 58 BCE (-57) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 0 26 8 | 4♎45'12 | 17♓41 | 16♍41 | 3♍18 | 2♏43 | 19♏ 9 | 12♋ 5 | 26♋15 | 15♋37 | 15°R 9 | 27°R14 | 25♑57 | 21♋22 | n.a. | W 1 |
| T 2 | 0 30 4 | 5°45'18 | 1♈50 | 17°22 | 3°25 | 3°26 | 19°20 | 12° 8 | 26°17 | 15°38 | 15♊ 9 | 27♑ 5 | 25°54 | 21°29 | n.a. | T 2 |
| F 3 | 0 34 1 | 6°45'26 | 15°45 | 18°11 | 3°35 | 4°10 | 19°32 | 12°11 | 26°19 | 15°38 | 15° 8 | 26°53 | 25°51 | 21°35 | n.a. | F 3 |
| S 4 | 0 37 57 | 7°45'36 | 29°21 | 19° 8 | 3°47 | 4°54 | 19°44 | 12°13 | 26°20 | 15°39 | 15° 8 | 26°42 | 25°47 | 21°42 | n.a. | S 4 |
| S 5 | 0 41 54 | 8°45'48 | 12♉35 | 20°10 | 4° 1 | 5°38 | 19°56 | 12°16 | 26°22 | 15°40 | 15° 7 | 26°30 | 25°44 | 21°49 | n.a. | S 5 |
| M 6 | 0 45 50 | 9°46'02 | 25°28 | 21°18 | 4°17 | 6°22 | 20° 8 | 12°18 | 26°24 | 15°40 | 15° 7 | 26°21 | 25°41 | 21°55 | n.a. | M 6 |
| T 7 | 0 49 47 | 10°46'18 | 7♊59 | 22°31 | 4°36 | 7° 7 | 20°20 | 12°21 | 26°25 | 15°41 | 15° 7 | 26°14 | 25°38 | 22° 2 | n.a. | T 7 |
| W 8 | 0 53 44 | 11°46'37 | 20°12 | 23°48 | 4°56 | 7°51 | 20°32 | 12°23 | 26°27 | 15°41 | 15° 6 | 26°10 | 25°35 | 22° 9 | n.a. | W 8 |
| T 9 | 0 57 40 | 12°46'57 | 2♋12 | 25° 8 | 5°18 | 8°35 | 20°44 | 12°25 | 26°28 | 15°42 | 15° 6 | 26° 8 | 25°32 | 22°15 | n.a. | T 9 |
| F 10 | 1 1 37 | 13°47'20 | 14° 3 | 26°32 | 5°42 | 9°20 | 20°56 | 12°27 | 26°30 | 15°42 | 15° 5 | 26°D 7 | 25°28 | 22°22 | n.a. | F 10 |
| S 11 | 1 5 33 | 14°47'44 | 25°50 | 27°58 | 6° 8 | 10° 4 | 21° 8 | 12°29 | 26°31 | 15°43 | 15° 5 | 26°R 7 | 25°25 | 22°28 | n.a. | S 11 |
| S 12 | 1 9 30 | 15°48'11 | 7♌40 | 29°26 | 6°35 | 10°48 | 21°21 | 12°31 | 26°32 | 15°43 | 15° 4 | 26° 7 | 25°22 | 22°35 | n.a. | S 12 |
| M13 | 1 13 26 | 16°48'39 | 19°37 | 0♎55 | 7° 4 | 11°33 | 21°33 | 12°32 | 26°34 | 15°43 | 15° 4 | 26° 5 | 25°19 | 22°42 | n.a. | M13 |
| T 14 | 1 17 23 | 17°49'10 | 1♍47 | 2°26 | 7°35 | 12°18 | 21°46 | 12°34 | 26°35 | 15°43 | 15° 3 | 26° 0 | 25°16 | 22°48 | n.a. | T 14 |
| W15 | 1 21 19 | 18°49'42 | 14°13 | 3°58 | 8° 7 | 13° 2 | 21°58 | 12°35 | 26°36 | 15°44 | 15° 2 | 25°53 | 25°12 | 22°55 | n.a. | W15 |
| T 16 | 1 25 16 | 19°50'16 | 26°58 | 5°31 | 8°41 | 13°47 | 22°11 | 12°37 | 26°37 | 15°44 | 15° 2 | 25°43 | 25° 9 | 23° 2 | n.a. | T 16 |
| F 17 | 1 29 13 | 20°50'52 | 10♎ 2 | 7° 5 | 9°16 | 14°32 | 22°23 | 12°38 | 26°38 | 15°44 | 15° 1 | 25°30 | 25° 6 | 23° 8 | n.a. | F 17 |
| S 18 | 1 33 9 | 21°51'30 | 23°25 | 8°39 | 9°53 | 15°17 | 22°36 | 12°39 | 26°39 | 15°44 | 15° 1 | 25°17 | 25° 3 | 23°15 | n.a. | S 18 |
| S 19 | 1 37 6 | 22°52'09 | 7♏ 3 | 10°14 | 10°30 | 16° 2 | 22°49 | 12°40 | 26°40 | 15°44 | 15° 0 | 25° 4 | 25° 0 | 23°22 | n.a. | S 19 |
| M20 | 1 41 2 | 23°52'50 | 20°55 | 11°49 | 11°10 | 16°47 | 23° 2 | 12°41 | 26°41 | 15°44 | 14°59 | 24°52 | 24°57 | 23°28 | n.a. | M20 |
| T 21 | 1 44 59 | 24°53'32 | 4♐55 | 13°24 | 11°50 | 17°32 | 23°14 | 12°42 | 26°42 | 15°45 | 14°58 | 24°43 | 24°53 | 23°35 | n.a. | T 21 |
| W22 | 1 48 55 | 25°54'16 | 19° 0 | 14°59 | 12°31 | 18°17 | 23°27 | 12°43 | 26°43 | 15°R45 | 14°58 | 24°37 | 24°50 | 23°42 | n.a. | W22 |
| T 23 | 1 52 52 | 26°55'01 | 3♑ 7 | 16°34 | 13°14 | 19° 2 | 23°40 | 12°43 | 26°44 | 15°44 | 14°57 | 24°34 | 24°47 | 23°48 | n.a. | T 23 |
| F 24 | 1 56 48 | 27°55'47 | 17°13 | 18°10 | 13°58 | 19°47 | 23°53 | 12°44 | 26°44 | 15°44 | 14°56 | 24°33 | 24°44 | 23°55 | n.a. | F 24 |
| S 25 | 2 0 45 | 28°56'34 | 1♒18 | 19°45 | 14°42 | 20°32 | 24° 6 | 12°44 | 26°45 | 15°44 | 14°55 | 24°33 | 24°41 | 24° 2 | n.a. | S 25 |
| S 26 | 2 4 42 | 29°57'22 | 15°21 | 21°20 | 15°28 | 21°17 | 24°20 | 12°44 | 26°46 | 15°44 | 14°55 | 24°32 | 24°38 | 24° 8 | n.a. | S 26 |
| M27 | 2 8 38 | 0♏58'11 | 29°22 | 22°55 | 16°15 | 22° 3 | 24°33 | 12°44 | 26°46 | 15°44 | 14°54 | 24°30 | 24°34 | 24°15 | n.a. | M27 |
| T 28 | 2 12 35 | 1°59'01 | 13♓18 | 24°30 | 17° 3 | 22°48 | 24°46 | 12°R44 | 26°47 | 15°44 | 14°53 | 24°25 | 24°31 | 24°21 | n.a. | T 28 |
| W29 | 2 16 31 | 2°59'53 | 27° 9 | 26° 5 | 17°51 | 23°34 | 24°59 | 12°44 | 26°47 | 15°44 | 14°52 | 24°17 | 24°28 | 24°28 | n.a. | W29 |
| T 30 | 2 20 28 | 4° 0'45 | 10♈51 | 27°40 | 18°41 | 24°19 | 25°12 | 12°44 | 26°47 | 15°43 | 14°51 | 24° 7 | 24°25 | 24°35 | n.a. | T 30 |
| F 31 | 2 24 24 | 5♏ 1'38 | 24♈22 | 29♎15 | 19♍31 | 25♏ 5 | 25♏26 | 12♋44 | 26♋48 | 15♋43 | 14♊50 | 23♑54 | 24♑22 | 24♋41 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| W 1 | 1 s55 | 1 s20 | 3n54 | 6n52 | 1n42 | 6n13 | 4 s30 | 12 s53 | 0 s22 | 17 s14 | 0n29 | 23n 9 | 0n 1 | 21n42 | 0n35 | 22n36 | 0 s11 | 20n 8 | 2 s45 | 20 s56 | 21 s11 | 22n24 | | | n.a. |
| T 2 | 2 19 | 4n55 | 4 34 | 6 43 | 1 50 | 6 23 | 4 16 | 13 9 | 0 23 | 17 17 | 0 29 | 23 9 | 0 1 | 21 42 | 0 35 | 22 36 | 0 11 | 20 8 | 2 45 | 20 58 | 21 12 | 22 22 | | | n.a. |
| F 3 | 2 43 | 10 49 | 4 56 | 6 30 | 1 56 | 6 32 | 4 3 | 13 25 | 0 23 | 17 21 | 0 29 | 23 9 | 0 1 | 21 41 | 0 35 | 22 35 | 0 11 | 20 8 | 2 45 | 21 1 | 21 13 | 22 20 | | | n.a. |
| S 4 | 3 7 | 16 3 | 5 2 | 6 12 | 2 1 | 6 40 | 3 50 | 13 40 | 0 24 | 17 24 | 0 29 | 23 9 | 0 1 | 21 41 | 0 35 | 22 35 | 0 11 | 20 8 | 2 45 | 21 3 | 21 13 | 22 18 | | | n.a. |
| S 5 | 3 31 | 20 23 | 4 50 | 5 51 | 2 5 | 6 47 | 3 37 | 13 56 | 0 24 | 17 27 | 0 29 | 23 9 | 0 1 | 21 41 | 0 35 | 22 35 | 0 11 | 20 8 | 2 45 | 21 5 | 21 14 | 22 16 | | | n.a. |
| M 6 | 3 55 | 23 37 | 4 24 | 5 26 | 2 8 | 6 53 | 3 24 | 14 11 | 0 25 | 17 31 | 0 29 | 23 9 | 0 1 | 21 41 | 0 35 | 22 35 | 0 11 | 20 8 | 2 45 | 21 7 | 21 14 | 22 14 | | | n.a. |
| T 7 | 4 19 | 25 36 | 3 46 | 4 59 | 2 9 | 6 58 | 3 12 | 14 27 | 0 26 | 17 34 | 0 28 | 23 9 | 0 1 | 21 40 | 0 35 | 22 35 | 0 11 | 20 8 | 2 45 | 21 8 | 21 15 | 22 12 | | | n.a. |
| W 8 | 4 42 | 26 18 | 2 58 | 4 28 | 2 10 | 7 2 | 2 59 | 14 42 | 0 26 | 17 37 | 0 28 | 23 8 | 0 1 | 21 40 | 0 35 | 22 35 | 0 11 | 20 8 | 2 45 | 21 9 | 21 16 | 22 10 | | | n.a. |
| T 9 | 5 6 | 25 45 | 2 3 | 3 56 | 2 10 | 7 5 | 2 47 | 14 57 | 0 27 | 17 41 | 0 28 | 23 8 | 0 1 | 21 40 | 0 35 | 22 35 | 0 11 | 20 8 | 2 45 | 21 9 | 21 16 | 22 8 | | | n.a. |
| F 10 | 5 30 | 24 1 | 1 4 | 3 21 | 2 8 | 7 8 | 2 35 | 15 12 | 0 28 | 17 44 | 0 28 | 23 8 | 0 1 | 21 40 | 0 35 | 22 35 | 0 11 | 20 8 | 2 45 | 21 10 | 21 17 | 22 6 | | | n.a. |
| S 11 | 5 54 | 21 14 | 0 2 | 2 45 | 2 7 | 7 9 | 2 23 | 15 27 | 0 28 | 17 48 | 0 28 | 23 8 | 0 2 | 21 39 | 0 35 | 22 35 | 0 11 | 20 8 | 2 45 | 21 9 | 21 17 | 22 4 | | | n.a. |
| S 12 | 6 17 | 17 35 | 1 s 1 | 2 7 | 2 4 | 7 10 | 2 12 | 15 41 | 0 29 | 17 51 | 0 28 | 23 8 | 0 2 | 21 39 | 0 35 | 22 35 | 0 11 | 20 8 | 2 45 | 21 10 | 21 18 | 22 2 | | | n.a. |
| M13 | 6 41 | 13 11 | 2 1 | 1 29 | 2 1 | 7 9 | 2 0 | 15 56 | 0 29 | 17 54 | 0 28 | 23 8 | 0 2 | 21 39 | 0 35 | 22 35 | 0 11 | 20 8 | 2 45 | 21 10 | 21 19 | 22 0 | | | n.a. |
| T 14 | 7 4 | 8 12 | 2 57 | 0 49 | 1 57 | 7 8 | 1 49 | 16 10 | 0 30 | 17 58 | 0 27 | 23 8 | 0 2 | 21 39 | 0 35 | 22 35 | 0 11 | 20 8 | 2 45 | 21 11 | 21 19 | 21 58 | | | n.a. |
| W15 | 7 27 | 2 49 | 3 45 | 0 8 | 1 53 | 7 6 | 1 38 | 16 25 | 0 31 | 18 1 | 0 27 | 23 8 | 0 2 | 21 39 | 0 35 | 22 35 | 0 11 | 20 8 | 2 45 | 21 12 | 21 20 | 21 56 | | | n.a. |
| T 16 | 7 50 | 2 s48 | 4 24 | 0 s33 | 1 49 | 7 3 | 1 28 | 16 39 | 0 31 | 18 5 | 0 27 | 23 8 | 0 2 | 21 38 | 0 35 | 22 35 | 0 11 | 20 8 | 2 45 | 21 14 | 21 20 | 21 54 | | | n.a. |
| F 17 | 8 14 | 8 26 | 4 49 | 1 15 | 1 44 | 6 59 | 1 17 | 16 53 | 0 32 | 18 8 | 0 27 | 23 8 | 0 2 | 21 38 | 0 35 | 22 35 | 0 11 | 20 7 | 2 45 | 21 16 | 21 21 | 21 52 | | | n.a. |
| S 18 | 8 36 | 13 49 | 5 0 | 1 57 | 1 39 | 6 55 | 1 7 | 17 7 | 0 32 | 18 11 | 0 27 | 23 8 | 0 2 | 21 38 | 0 35 | 22 35 | 0 11 | 20 7 | 2 45 | 21 19 | 21 21 | 21 50 | | | n.a. |
| S 19 | 8 59 | 18 38 | 4 54 | 2 40 | 1 34 | 6 50 | 0 57 | 17 21 | 0 33 | 18 15 | 0 27 | 23 8 | 0 2 | 21 38 | 0 35 | 22 35 | 0 11 | 20 7 | 2 45 | 21 21 | 21 22 | 21 48 | | | n.a. |
| M20 | 9 22 | 22 31 | 4 30 | 3 22 | 1 28 | 6 44 | 0 48 | 17 34 | 0 34 | 18 18 | 0 27 | 23 8 | 0 3 | 21 38 | 0 35 | 22 35 | 0 11 | 20 7 | 2 45 | 21 23 | 21 23 | 21 46 | | | n.a. |
| T 21 | 9 45 | 25 7 | 3 50 | 4 5 | 1 22 | 6 37 | 0 38 | 17 48 | 0 34 | 18 22 | 0 27 | 23 8 | 0 3 | 21 38 | 0 35 | 22 35 | 0 11 | 20 7 | 2 45 | 21 25 | 21 23 | 21 44 | | | n.a. |
| W22 | 10 7 | 26 10 | 2 56 | 4 48 | 1 16 | 6 29 | 0 29 | 18 1 | 0 35 | 18 25 | 0 26 | 23 8 | 0 3 | 21 37 | 0 36 | 22 35 | 0 11 | 20 7 | 2 45 | 21 26 | 21 24 | 21 42 | | | n.a. |
| T 23 | 10 29 | 25 31 | 1 51 | 5 31 | 1 10 | 6 21 | 0 20 | 18 14 | 0 35 | 18 28 | 0 26 | 23 8 | 0 3 | 21 37 | 0 36 | 22 35 | 0 11 | 20 7 | 2 45 | 21 27 | 21 24 | 21 40 | | | n.a. |
| F 24 | 10 51 | 23 13 | 0 39 | 6 13 | 1 4 | 6 12 | 0 11 | 18 27 | 0 36 | 18 32 | 0 26 | 23 8 | 0 3 | 21 37 | 0 36 | 22 35 | 0 11 | 20 7 | 2 45 | 21 27 | 21 25 | 21 38 | | | n.a. |
| S 25 | 11 13 | 19 31 | 0n36 | 6 56 | 0 57 | 6 2 | 0 3 | 18 40 | 0 36 | 18 35 | 0 26 | 23 8 | 0 3 | 21 37 | 0 36 | 22 35 | 0 11 | 20 7 | 2 45 | 21 27 | 21 25 | 21 36 | | | n.a. |
| S 26 | 11 35 | 14 42 | 1 48 | 7 38 | 0 51 | 5 52 | 0n 5 | 18 53 | 0 37 | 18 39 | 0 26 | 23 8 | 0 3 | 21 37 | 0 36 | 22 35 | 0 11 | 20 7 | 2 45 | 21 27 | 21 26 | 21 34 | | | n.a. |
| M27 | 11 56 | 9 8 | 2 53 | 8 20 | 0 44 | 5 41 | 0 13 | 19 5 | 0 38 | 18 42 | 0 26 | 23 8 | 0 3 | 21 37 | 0 36 | 22 35 | 0 11 | 20 7 | 2 45 | 21 27 | 21 27 | 21 32 | | | n.a. |
| T 28 | 12 18 | 3 8 | 3 47 | 9 1 | 0 37 | 5 30 | 0 21 | 19 17 | 0 38 | 18 45 | 0 26 | 23 8 | 0 3 | 21 37 | 0 36 | 22 35 | 0 11 | 20 7 | 2 45 | 21 28 | 21 27 | 21 30 | | | n.a. |
| W29 | 12 39 | 2n57 | 4 28 | 9 42 | 0 31 | 5 17 | 0 29 | 19 30 | 0 39 | 18 49 | 0 26 | 23 9 | 0 3 | 21 37 | 0 36 | 22 35 | 0 11 | 20 7 | 2 45 | 21 30 | 21 28 | 21 28 | | | n.a. |
| T 30 | 13 0 | 8 49 | 4 53 | 10 23 | 0 24 | 5 4 | 0 36 | 19 41 | 0 39 | 18 52 | 0 25 | 23 9 | 0 4 | 21 37 | 0 36 | 22 35 | 0 11 | 20 6 | 2 45 | 21 32 | 21 28 | 21 26 | | | n.a. |
| F 31 | 13 s20 | 14n12 | 5n 1 | 11 s 4 | 0n17 | 4n51 | 0n43 | 19 s53 | 0 s40 | 18 s55 | 0n25 | 23n 9 | 0n 4 | 21n37 | 0n36 | 22n35 | 0 s11 | 20n 6 | 2 s44 | 21 s34 | 21 s29 | 21n24 | | | n.a. |

Julian Day Number = 1700511.5, Delta T = 03h05m49s
Ecliptic obliquity = 23°42'12, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°51'15, Lahiri = - 4°44'14 Julian Calendar 1 Oct. 58 BCE == Greg. Calendar 29 Sept. 058 BCE

The year -57 astronomical counting style corresponds to year 058 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 58 BCE
# geocentric

## NOVEMBER 58 BCE (-57) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 28 21 | 6♏ 2'33 | 7♉39 | 0♏50 | 20♍22 | 25♏50 | 25♏39 | 12°R43 | 26♋48 | 15°R43 | 14°R49 | 23°R41 | 24♑18 | 24♋48 | n.a. | S 1 |
| S 2 | 2 32 17 | 7° 3'29 | 20°40 | 2°25 | 21°14 | 26°36 | 25°52 | 12♋43 | 26°48 | 15♋42 | 14♊48 | 23♑28 | 24°15 | 24°55 | n.a. | S 2 |
| M 3 | 2 36 14 | 8° 4'26 | 3♊23 | 3°59 | 22° 6 | 27°21 | 26° 6 | 12°42 | 26°48 | 15°42 | 14°47 | 23°17 | 24°12 | 25° 1 | n.a. | M 3 |
| T 4 | 2 40 11 | 9° 5'25 | 15°49 | 5°34 | 23° 0 | 28° 7 | 26°19 | 12°41 | 26°48 | 15°42 | 14°46 | 23° 9 | 24° 9 | 25° 8 | n.a. | T 4 |
| W 5 | 2 44 7 | 10° 6'24 | 28° 0 | 7° 8 | 23°54 | 28°53 | 26°33 | 12°40 | 26°R48 | 15°41 | 14°45 | 23° 3 | 24° 6 | 25°15 | n.a. | W 5 |
| T 6 | 2 48 4 | 11° 7'25 | 9♋59 | 8°42 | 24°49 | 29°39 | 26°46 | 12°39 | 26°48 | 15°41 | 14°44 | 23° 1 | 24° 3 | 25°21 | n.a. | T 6 |
| F 7 | 2 52 0 | 12° 8'27 | 21°49 | 10°17 | 25°44 | 0♐25 | 27° 0 | 12°38 | 26°48 | 15°40 | 14°43 | 23°D 0 | 23°59 | 25°28 | n.a. | F 7 |
| S 8 | 2 55 57 | 13° 9'31 | 3♌36 | 11°51 | 26°40 | 1°11 | 27°13 | 12°37 | 26°48 | 15°39 | 14°42 | 23° 0 | 23°56 | 25°35 | n.a. | S 8 |
| S 9 | 2 59 53 | 14°10'35 | 15°25 | 13°25 | 27°37 | 1°57 | 27°27 | 12°36 | 26°48 | 15°39 | 14°41 | 23°R 0 | 23°53 | 25°41 | n.a. | S 9 |
| M10 | 3 3 50 | 15°11'41 | 27°22 | 15° 0 | 28°34 | 2°43 | 27°41 | 12°34 | 26°48 | 15°38 | 14°40 | 23° 0 | 23°50 | 25°48 | n.a. | M10 |
| T 11 | 3 7 46 | 16°12'48 | 9♍33 | 16°34 | 29°32 | 3°29 | 27°54 | 12°33 | 26°47 | 15°38 | 14°39 | 22°57 | 23°47 | 25°54 | n.a. | T 11 |
| W12 | 3 11 43 | 17°13'56 | 22° 1 | 18° 9 | 0♎30 | 4°15 | 28° 8 | 12°31 | 26°47 | 15°37 | 14°38 | 22°52 | 23°43 | 26° 1 | n.a. | W12 |
| T 13 | 3 15 40 | 18°15'04 | 4♎51 | 19°43 | 1°29 | 5° 1 | 28°22 | 12°29 | 26°47 | 15°36 | 14°37 | 22°44 | 23°40 | 26° 8 | n.a. | T 13 |
| F 14 | 3 19 36 | 19°16'14 | 18° 5 | 21°18 | 2°28 | 5°47 | 28°35 | 12°27 | 26°46 | 15°35 | 14°36 | 22°34 | 23°37 | 26°14 | n.a. | F 14 |
| S 15 | 3 23 33 | 20°17'25 | 1♏43 | 22°52 | 3°28 | 6°33 | 28°49 | 12°25 | 26°46 | 15°35 | 14°35 | 22°23 | 23°34 | 26°21 | n.a. | S 15 |
| S 16 | 3 27 29 | 21°18'37 | 15°42 | 24°27 | 4°28 | 7°20 | 29° 3 | 12°23 | 26°45 | 15°34 | 14°34 | 22°12 | 23°31 | 26°28 | n.a. | S 16 |
| M17 | 3 31 26 | 22°19'49 | 29°59 | 26° 2 | 5°29 | 8° 6 | 29°16 | 12°21 | 26°44 | 15°33 | 14°33 | 22° 3 | 23°28 | 26°34 | n.a. | M17 |
| T 18 | 3 35 22 | 23°21'02 | 14♐26 | 27°37 | 6°30 | 8°52 | 29°30 | 12°19 | 26°44 | 15°32 | 14°31 | 21°55 | 23°24 | 26°41 | n.a. | T 18 |
| W19 | 3 39 19 | 24°22'15 | 28°59 | 29°12 | 7°31 | 9°39 | 29°44 | 12°16 | 26°43 | 15°31 | 14°30 | 21°51 | 23°21 | 26°48 | n.a. | W19 |
| T 20 | 3 43 15 | 25°23'29 | 13♑30 | 0♐47 | 8°33 | 10°25 | 29°58 | 12°14 | 26°42 | 15°30 | 14°29 | 21°48 | 23°18 | 26°54 | n.a. | T 20 |
| F 21 | 3 47 12 | 26°24'43 | 27°55 | 2°23 | 9°35 | 11°12 | 0♐12 | 12°11 | 26°41 | 15°29 | 14°28 | 21°D48 | 23°15 | 27° 1 | n.a. | F 21 |
| S 22 | 3 51 9 | 27°25'57 | 12♒10 | 3°58 | 10°38 | 11°58 | 0°25 | 12° 8 | 26°40 | 15°28 | 14°27 | 21°49 | 23°12 | 27° 8 | n.a. | S 22 |
| S 23 | 3 55 5 | 28°27'11 | 26°15 | 5°34 | 11°41 | 12°45 | 0°39 | 12° 6 | 26°39 | 15°27 | 14°26 | 21°R50 | 23° 9 | 27°14 | n.a. | S 23 |
| M24 | 3 59 2 | 29°28'25 | 10♓ 8 | 7°10 | 12°44 | 13°31 | 0°53 | 12° 3 | 26°38 | 15°26 | 14°24 | 21°49 | 23° 5 | 27°21 | n.a. | M24 |
| T 25 | 4 2 58 | 0♐29'39 | 23°49 | 8°46 | 13°48 | 14°18 | 1° 7 | 12° 0 | 26°37 | 15°25 | 14°23 | 21°47 | 23° 2 | 27°28 | n.a. | T 25 |
| W26 | 4 6 55 | 1°30'53 | 7♈19 | 10°22 | 14°52 | 15° 5 | 1°21 | 11°57 | 26°36 | 15°24 | 14°22 | 21°42 | 22°59 | 27°34 | n.a. | W26 |
| T 27 | 4 10 51 | 2°32'07 | 20°37 | 11°58 | 15°56 | 15°51 | 1°35 | 11°54 | 26°35 | 15°23 | 14°21 | 21°35 | 22°56 | 27°41 | n.a. | T 27 |
| F 28 | 4 14 48 | 3°33'22 | 3♉43 | 13°34 | 17° 1 | 16°38 | 1°48 | 11°50 | 26°34 | 15°22 | 14°19 | 21°26 | 22°53 | 27°47 | n.a. | F 28 |
| S 29 | 4 18 45 | 4°34'36 | 16°36 | 15°11 | 18° 6 | 17°25 | 2° 2 | 11°47 | 26°32 | 15°21 | 14°18 | 21°17 | 22°49 | 27°54 | n.a. | S 29 |
| S 30 | 4 22 41 | 5♐35'50 | 29♉17 | 16♐47 | 19♎11 | 18♐11 | 2♐16 | 11♋44 | 26♋31 | 15♋19 | 14♊17 | 21♑ 9 | 22♑46 | 28♋ 1 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 13 s41 | 18n48 | 4n52 | 11 s43 | 0n11 | 4n37 | 0n50 | 20 s 5 | 0 s40 | 18 s59 | 0n25 | 23n 9 | 0n 4 | 21n37 | 0n36 | 22n35 | 0 s11 | 20n 6 | 2 s44 | 21 s36 | 21 s29 | 21n22 | | n.a. |
| S 2 | 14 1 | 22 25 | 4 28 | 12 23 | 0 4 | 4 22 | 0 56 | 20 16 | 0 41 | 19 2 | 0 25 | 23 9 | 0 4 | 21 37 | 0 36 | 22 35 | 0 11 | 20 6 | 2 44 | 21 38 | 21 30 | 21 19 | | n.a. |
| M 3 | 14 21 | 24 50 | 3 51 | 13 2 | 0 s 3 | 4 7 | 1 3 | 20 27 | 0 41 | 19 5 | 0 25 | 23 9 | 0 4 | 21 37 | 0 36 | 22 35 | 0 11 | 20 6 | 2 44 | 21 40 | 21 31 | 21 17 | | n.a. |
| T 4 | 14 41 | 25 59 | 3 4 | 13 40 | 0 9 | 3 52 | 1 9 | 20 38 | 0 42 | 19 8 | 0 25 | 23 10 | 0 4 | 21 37 | 0 36 | 22 35 | 0 11 | 20 6 | 2 44 | 21 42 | 21 31 | 21 15 | | n.a. |
| W 5 | 15 1 | 25 50 | 2 9 | 14 18 | 0 16 | 3 35 | 1 15 | 20 49 | 0 42 | 19 12 | 0 25 | 23 10 | 0 4 | 21 37 | 0 36 | 22 35 | 0 11 | 20 6 | 2 44 | 21 42 | 21 32 | 21 13 | | n.a. |
| T 6 | 15 20 | 24 28 | 1 9 | 14 55 | 0 22 | 3 19 | 1 20 | 21 0 | 0 43 | 19 15 | 0 25 | 23 10 | 0 4 | 21 37 | 0 36 | 22 35 | 0 11 | 20 6 | 2 44 | 21 43 | 21 32 | 21 11 | | n.a. |
| F 7 | 15 39 | 22 1 | 0 6 | 15 31 | 0 29 | 3 2 | 1 26 | 21 10 | 0 43 | 19 18 | 0 24 | 23 10 | 0 4 | 21 37 | 0 36 | 22 35 | 0 11 | 20 6 | 2 44 | 21 43 | 21 33 | 21 9 | | n.a. |
| S 8 | 15 58 | 18 39 | 0 s56 | 16 7 | 0 35 | 2 44 | 1 31 | 21 20 | 0 44 | 19 22 | 0 24 | 23 10 | 0 5 | 21 37 | 0 36 | 22 36 | 0 11 | 20 6 | 2 44 | 21 43 | 21 33 | 21 7 | | n.a. |
| S 9 | 16 16 | 14 32 | 1 57 | 16 42 | 0 41 | 2 26 | 1 36 | 21 30 | 0 44 | 19 25 | 0 24 | 23 11 | 0 5 | 21 37 | 0 36 | 22 36 | 0 11 | 20 6 | 2 44 | 21 43 | 21 34 | 21 5 | | n.a. |
| M10 | 16 34 | 9 49 | 2 52 | 17 16 | 0 47 | 2 7 | 1 41 | 21 40 | 0 45 | 19 28 | 0 24 | 23 11 | 0 5 | 21 37 | 0 36 | 22 36 | 0 11 | 20 5 | 2 44 | 21 43 | 21 35 | 21 3 | | n.a. |
| T 11 | 16 52 | 4 39 | 3 42 | 17 49 | 0 53 | 1 49 | 1 46 | 21 49 | 0 45 | 19 31 | 0 24 | 23 11 | 0 5 | 21 37 | 0 36 | 22 36 | 0 11 | 20 5 | 2 44 | 21 44 | 21 35 | 21 1 | | n.a. |
| W12 | 17 10 | 0 s48 | 4 21 | 18 22 | 0 59 | 1 29 | 1 51 | 21 59 | 0 46 | 19 34 | 0 24 | 23 11 | 0 5 | 21 38 | 0 36 | 22 36 | 0 11 | 20 5 | 2 44 | 21 45 | 21 36 | 20 58 | | n.a. |
| T 13 | 17 27 | 6 22 | 4 49 | 18 54 | 1 5 | 1 10 | 1 55 | 22 8 | 0 46 | 19 38 | 0 24 | 23 12 | 0 5 | 21 38 | 0 36 | 22 36 | 0 11 | 20 5 | 2 44 | 21 46 | 21 36 | 20 56 | | n.a. |
| F 14 | 17 44 | 11 49 | 5 3 | 19 25 | 1 10 | 0 50 | 1 59 | 22 17 | 0 47 | 19 41 | 0 24 | 23 12 | 0 5 | 21 38 | 0 36 | 22 36 | 0 11 | 20 5 | 2 44 | 21 47 | 21 37 | 20 54 | | n.a. |
| S 15 | 18 1 | 16 52 | 5 0 | 19 55 | 1 16 | 0 29 | 2 3 | 22 25 | 0 47 | 19 44 | 0 24 | 23 12 | 0 5 | 21 38 | 0 36 | 22 36 | 0 11 | 20 5 | 2 44 | 21 49 | 21 37 | 20 52 | | n.a. |
| S 16 | 18 17 | 21 10 | 4 39 | 20 24 | 1 21 | 0 8 | 2 7 | 22 33 | 0 48 | 19 47 | 0 23 | 23 13 | 0 5 | 21 38 | 0 37 | 22 36 | 0 11 | 20 5 | 2 44 | 21 51 | 21 38 | 20 50 | | n.a. |
| M17 | 18 33 | 24 17 | 4 1 | 20 52 | 1 26 | 0 s13 | 2 10 | 22 42 | 0 48 | 19 50 | 0 23 | 23 13 | 0 6 | 21 38 | 0 37 | 22 36 | 0 11 | 20 5 | 2 44 | 21 53 | 21 38 | 20 48 | | n.a. |
| T 18 | 18 49 | 25 52 | 3 6 | 21 19 | 1 31 | 0 34 | 2 14 | 22 49 | 0 49 | 19 53 | 0 23 | 23 13 | 0 6 | 21 38 | 0 37 | 22 36 | 0 11 | 20 5 | 2 44 | 21 54 | 21 39 | 20 46 | | n.a. |
| W19 | 19 4 | 25 41 | 1 59 | 21 45 | 1 36 | 0 55 | 2 17 | 22 57 | 0 49 | 19 56 | 0 23 | 23 14 | 0 6 | 21 39 | 0 37 | 22 37 | 0 11 | 20 5 | 2 44 | 21 55 | 21 39 | 20 43 | | n.a. |
| T 20 | 19 19 | 23 45 | 0 44 | 22 10 | 1 40 | 1 17 | 2 20 | 23 4 | 0 50 | 19 59 | 0 23 | 23 14 | 0 6 | 21 39 | 0 37 | 22 37 | 0 11 | 20 4 | 2 44 | 21 55 | 21 40 | 20 41 | | n.a. |
| F 21 | 19 34 | 20 16 | 0n33 | 22 34 | 1 44 | 1 39 | 2 23 | 23 12 | 0 50 | 20 2 | 0 23 | 23 14 | 0 6 | 21 39 | 0 37 | 22 37 | 0 11 | 20 4 | 2 44 | 21 55 | 21 41 | 20 39 | | n.a. |
| S 22 | 19 48 | 15 37 | 1 47 | 22 57 | 1 48 | 2 2 | 2 25 | 23 18 | 0 50 | 20 5 | 0 23 | 23 15 | 0 6 | 21 39 | 0 37 | 22 37 | 0 11 | 20 4 | 2 44 | 21 55 | 21 41 | 20 37 | | n.a. |
| S 23 | 20 2 | 10 11 | 2 54 | 23 18 | 1 52 | 2 24 | 2 28 | 23 25 | 0 51 | 20 8 | 0 23 | 23 15 | 0 6 | 21 39 | 0 37 | 22 37 | 0 11 | 20 4 | 2 44 | 21 55 | 21 42 | 20 35 | | n.a. |
| M24 | 20 16 | 4 18 | 3 50 | 23 38 | 1 55 | 2 47 | 2 30 | 23 31 | 0 51 | 20 11 | 0 23 | 23 15 | 0 6 | 21 40 | 0 37 | 22 37 | 0 11 | 20 4 | 2 44 | 21 55 | 21 42 | 20 33 | | n.a. |
| T 25 | 20 29 | 1n40 | 4 32 | 23 57 | 1 58 | 3 10 | 2 32 | 23 37 | 0 52 | 20 14 | 0 23 | 23 16 | 0 7 | 21 40 | 0 37 | 22 37 | 0 11 | 20 4 | 2 44 | 21 55 | 21 43 | 20 30 | | n.a. |
| W26 | 20 41 | 7 29 | 4 58 | 24 14 | 2 1 | 3 33 | 2 34 | 23 43 | 0 52 | 20 17 | 0 23 | 23 16 | 0 7 | 21 40 | 0 37 | 22 37 | 0 11 | 20 4 | 2 44 | 21 56 | 21 43 | 20 28 | | n.a. |
| T 27 | 20 54 | 12 52 | 5 7 | 24 30 | 2 3 | 3 56 | 2 36 | 23 49 | 0 53 | 20 20 | 0 22 | 23 17 | 0 7 | 21 40 | 0 37 | 22 38 | 0 11 | 20 4 | 2 44 | 21 57 | 21 44 | 20 26 | | n.a. |
| F 28 | 21 6 | 17 35 | 5 0 | 24 45 | 2 5 | 4 20 | 2 38 | 23 54 | 0 53 | 20 23 | 0 22 | 23 17 | 0 7 | 21 41 | 0 37 | 22 38 | 0 11 | 20 4 | 2 44 | 21 58 | 21 44 | 20 24 | | n.a. |
| S 29 | 21 17 | 21 25 | 4 38 | 24 58 | 2 7 | 4 43 | 2 39 | 23 59 | 0 53 | 20 26 | 0 22 | 23 17 | 0 7 | 21 41 | 0 37 | 22 38 | 0 11 | 20 4 | 2 44 | 22 0 | 21 45 | 20 22 | | n.a. |
| S 30 | 21 s28 | 24n10 | 4n 3 | 25 s10 | 2 s 8 | 5 s 7 | 2n41 | 24 s 4 | 0 s54 | 20 s29 | 0n22 | 23n18 | 0n 7 | 21n41 | 0n37 | 22n38 | 0 s11 | 20n 4 | 2 s44 | 22 s 1 | 21 s45 | 20n20 | | n.a. |

Julian Day Number = 1700542.5, Delta T = 03h05m48s
Ecliptic obliquity = 23°42'11, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°51'11, Lahiri = - 4°44'10 Julian Calendar 1 Nov. 58 BCE == Greg. Calendar 30 Oct. 058 BCE

The year -57 astronomical counting style corresponds to year 058 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 58 BCE
# geocentric

## DECEMBER 58 BCE (-57) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 4 26 38 | 6♐37'05 | 11♊45 | 18♐23 | 20♎17 | 18♐58 | 2♐30 | 11°R40 | 26°R30 | 15°R18 | 14°R16 | 21°R 1 | 22♑43 | 28♋ 7 | n.a. | M 1 |
| T 2 | 4 30 34 | 7°38'19 | 24° 0 | 20° 0 | 21°22 | 19°45 | 2°44 | 11♋37 | 26♋28 | 15♋17 | 14♊15 | 20♑56 | 22°40 | 28°14 | n.a. | T 2 |
| W 3 | 4 34 31 | 8°39'34 | 6♋ 4 | 21°36 | 22°28 | 20°32 | 2°57 | 11°33 | 26°27 | 15°16 | 14°13 | 20°52 | 22°37 | 28°21 | n.a. | W 3 |
| T 4 | 4 38 27 | 9°40'48 | 17°59 | 23°11 | 23°35 | 21°19 | 3°11 | 11°29 | 26°25 | 15°14 | 14°12 | 20°D51 | 22°34 | 28°27 | n.a. | T 4 |
| F 5 | 4 42 24 | 10°42'03 | 29°48 | 24°47 | 24°41 | 22° 6 | 3°25 | 11°25 | 26°24 | 15°13 | 14°11 | 20°51 | 22°30 | 28°34 | n.a. | F 5 |
| S 6 | 4 46 20 | 11°43'18 | 11♌35 | 26°21 | 25°48 | 22°53 | 3°39 | 11°21 | 26°22 | 15°12 | 14°10 | 20°53 | 22°27 | 28°41 | n.a. | S 6 |
| S 7 | 4 50 17 | 12°44'33 | 23°24 | 27°55 | 26°55 | 23°40 | 3°53 | 11°18 | 26°21 | 15°10 | 14° 8 | 20°55 | 22°24 | 28°47 | n.a. | S 7 |
| M 8 | 4 54 14 | 13°45'47 | 5♍19 | 29°28 | 28° 2 | 24°27 | 4° 6 | 11°13 | 26°19 | 15° 9 | 14° 7 | 20°56 | 22°21 | 28°54 | n.a. | M 8 |
| T 9 | 4 58 10 | 14°47'02 | 17°27 | 1♑ 0 | 29°10 | 25°14 | 4°20 | 11° 9 | 26°17 | 15° 8 | 14° 6 | 20°R56 | 22°18 | 29° 1 | n.a. | T 9 |
| W10 | 5 2 7 | 15°48'17 | 29°53 | 2°31 | 0♏17 | 26° 1 | 4°34 | 11° 5 | 26°16 | 15° 6 | 14° 5 | 20°55 | 22°15 | 29° 7 | n.a. | W10 |
| T 11 | 5 6 3 | 16°49'32 | 12♎40 | 3°59 | 1°25 | 26°48 | 4°47 | 11° 1 | 26°14 | 15° 5 | 14° 3 | 20°53 | 22°11 | 29°14 | n.a. | T 11 |
| F 12 | 5 10 0 | 17°50'46 | 25°52 | 5°26 | 2°33 | 27°35 | 5° 1 | 10°57 | 26°12 | 15° 3 | 14° 2 | 20°49 | 22° 8 | 29°21 | n.a. | F 12 |
| S 13 | 5 13 56 | 18°52'01 | 9♏32 | 6°50 | 3°41 | 28°22 | 5°15 | 10°52 | 26°10 | 15° 2 | 14° 1 | 20°44 | 22° 5 | 29°27 | n.a. | S 13 |
| S 14 | 5 17 53 | 19°53'16 | 23°38 | 8°10 | 4°49 | 29° 9 | 5°28 | 10°48 | 26° 8 | 15° 0 | 14° 0 | 20°39 | 22° 2 | 29°34 | n.a. | S 14 |
| M15 | 5 21 49 | 20°54'30 | 8♐ 7 | 9°27 | 5°58 | 29°56 | 5°42 | 10°44 | 26° 6 | 14°59 | 13°58 | 20°34 | 21°59 | 29°40 | n.a. | M15 |
| T 16 | 5 25 46 | 21°55'44 | 22°53 | 10°40 | 7° 7 | 0♑44 | 5°56 | 10°39 | 26° 4 | 14°57 | 13°57 | 20°31 | 21°55 | 29°47 | n.a. | T 16 |
| W17 | 5 29 43 | 22°56'57 | 7♑50 | 11°48 | 8°15 | 1°31 | 6° 9 | 10°35 | 26° 2 | 14°56 | 13°56 | 20°29 | 21°52 | 29°54 | n.a. | W17 |
| T 18 | 5 33 39 | 23°58'09 | 22°47 | 12°50 | 9°24 | 2°18 | 6°23 | 10°30 | 26° 0 | 14°54 | 13°55 | 20°D28 | 21°49 | 0♌ 0 | n.a. | T 18 |
| F 19 | 5 37 36 | 24°59'21 | 7♒37 | 13°45 | 10°34 | 3° 5 | 6°36 | 10°25 | 25°58 | 14°53 | 13°53 | 20°29 | 21°46 | 0° 7 | n.a. | F 19 |
| S 20 | 5 41 32 | 26° 0'32 | 22°15 | 14°33 | 11°43 | 3°53 | 6°50 | 10°21 | 25°56 | 14°51 | 13°52 | 20°30 | 21°43 | 0°14 | n.a. | S 20 |
| S 21 | 5 45 29 | 27° 1'41 | 6♓35 | 15°12 | 12°52 | 4°40 | 7° 3 | 10°16 | 25°54 | 14°50 | 13°51 | 20°32 | 21°40 | 0°20 | n.a. | S 21 |
| M22 | 5 49 25 | 28° 2'50 | 20°35 | 15°42 | 14° 2 | 5°27 | 7°17 | 10°11 | 25°51 | 14°48 | 13°50 | 20°33 | 21°36 | 0°27 | n.a. | M22 |
| T 23 | 5 53 22 | 29° 3'58 | 4♈16 | 16° 2 | 15°11 | 6°14 | 7°30 | 10° 6 | 25°49 | 14°46 | 13°49 | 20°R33 | 21°33 | 0°34 | n.a. | T 23 |
| W24 | 5 57 19 | 0♑ 5'04 | 17°37 | 16°R12 | 16°21 | 7° 2 | 7°43 | 10° 2 | 25°47 | 14°45 | 13°47 | 20°32 | 21°30 | 0°40 | n.a. | W24 |
| T 25 | 6 1 15 | 1° 6'09 | 0♉40 | 16°10 | 17°31 | 7°49 | 7°57 | 9°57 | 25°45 | 14°43 | 13°46 | 20°30 | 21°27 | 0°47 | n.a. | T 25 |
| F 26 | 6 5 12 | 2° 7'13 | 13°28 | 15°56 | 18°41 | 8°36 | 8°10 | 9°52 | 25°42 | 14°42 | 13°45 | 20°27 | 21°24 | 0°54 | n.a. | F 26 |
| S 27 | 6 9 8 | 3° 8'17 | 26° 2 | 15°32 | 19°51 | 9°24 | 8°23 | 9°47 | 25°40 | 14°40 | 13°44 | 20°24 | 21°21 | 1° 0 | n.a. | S 27 |
| S 28 | 6 13 5 | 4° 9'19 | 8♊23 | 14°55 | 21° 1 | 10°11 | 8°36 | 9°42 | 25°38 | 14°38 | 13°43 | 20°22 | 21°17 | 1° 7 | n.a. | S 28 |
| M29 | 6 17 1 | 5°10'19 | 20°35 | 14° 9 | 22°11 | 10°58 | 8°50 | 9°37 | 25°35 | 14°37 | 13°41 | 20°20 | 21°14 | 1°14 | n.a. | M29 |
| T 30 | 6 20 58 | 6°11'19 | 2♋38 | 13°13 | 23°22 | 11°46 | 9° 3 | 9°32 | 25°33 | 14°35 | 13°40 | 20°18 | 21°11 | 1°20 | n.a. | T 30 |
| W31 | 6 24 54 | 7♑12'18 | 14♋33 | 12♑10 | 24♏32 | 12♑33 | 9♐16 | 9♋28 | 25♋30 | 14♋33 | 13♊39 | 20°D17 | 21♑ 8 | 1♌27 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 21s39 | 25n40 | 3n16 | 25s20 | 2s 9 | 5s31 | 2n42 | 24s 8 | 0s54 | 20s32 | 0n22 | 23n18 | 0n 7 | 21n42 | 0n37 | 22n38 | 0s11 | 20n 3 | 2s43 | 22s 2 | 21s46 | 20n17 | | n.a. |
| T 2 | 21 49 | 25 54 | 2 20 | 25 28 | 2 9 | 5 55 | 2 43 | 24 12 | 0 54 | 20 35 | 0 22 | 23 19 | 0 7 | 21 42 | 0 37 | 22 38 | 0 11 | 20 3 | 2 43 | 22 3 | 21 46 | 20 15 | | n.a. |
| W 3 | 21 59 | 24 53 | 1 19 | 25 35 | 2 9 | 6 18 | 2 44 | 24 16 | 0 55 | 20 37 | 0 22 | 23 19 | 0 7 | 21 42 | 0 37 | 22 38 | 0 11 | 20 3 | 2 43 | 22 4 | 21 47 | 20 13 | | n.a. |
| T 4 | 22 9 | 22 44 | 0 16 | 25 40 | 2 8 | 6 42 | 2 45 | 24 20 | 0 55 | 20 40 | 0 22 | 23 20 | 0 8 | 21 42 | 0 37 | 22 39 | 0 11 | 20 3 | 2 43 | 22 4 | 21 47 | 20 11 | | n.a. |
| F 5 | 22 18 | 19 37 | 0s49 | 25 43 | 2 7 | 7 6 | 2 45 | 24 23 | 0 56 | 20 43 | 0 22 | 23 20 | 0 8 | 21 43 | 0 37 | 22 39 | 0 11 | 20 3 | 2 43 | 22 4 | 21 48 | 20 8 | | n.a. |
| S 6 | 22 26 | 15 44 | 1 51 | 25 44 | 2 5 | 7 30 | 2 46 | 24 26 | 0 56 | 20 46 | 0 22 | 23 20 | 0 8 | 21 43 | 0 37 | 22 39 | 0 11 | 20 3 | 2 43 | 22 4 | 21 49 | 20 6 | | n.a. |
| S 7 | 22 35 | 11 13 | 2 48 | 25 44 | 2 3 | 7 54 | 2 46 | 24 29 | 0 56 | 20 48 | 0 21 | 23 21 | 0 8 | 21 43 | 0 37 | 22 39 | 0 11 | 20 3 | 2 43 | 22 3 | 21 49 | 20 4 | | n.a. |
| M 8 | 22 42 | 6 16 | 3 39 | 25 42 | 2 0 | 8 18 | 2 46 | 24 32 | 0 57 | 20 51 | 0 21 | 23 21 | 0 8 | 21 44 | 0 37 | 22 39 | 0 11 | 20 3 | 2 43 | 22 3 | 21 50 | 20 2 | | n.a. |
| T 9 | 22 49 | 1 0 | 4 21 | 25 38 | 1 56 | 8 42 | 2 46 | 24 34 | 0 57 | 20 54 | 0 21 | 23 22 | 0 8 | 21 44 | 0 37 | 22 39 | 0 11 | 20 3 | 2 43 | 22 3 | 21 50 | 20 0 | | n.a. |
| W10 | 22 56 | 4s24 | 4 52 | 25 32 | 1 51 | 9 6 | 2 46 | 24 36 | 0 57 | 20 56 | 0 21 | 23 22 | 0 8 | 21 45 | 0 37 | 22 40 | 0 11 | 20 3 | 2 43 | 22 3 | 21 51 | 19 57 | | n.a. |
| T 11 | 23 3 | 9 48 | 5 9 | 25 24 | 1 46 | 9 30 | 2 46 | 24 37 | 0 58 | 20 59 | 0 21 | 23 23 | 0 8 | 21 45 | 0 37 | 22 40 | 0 11 | 20 3 | 2 43 | 22 4 | 21 51 | 19 55 | | n.a. |
| F 12 | 23 8 | 14 55 | 5 11 | 25 15 | 1 39 | 9 54 | 2 46 | 24 39 | 0 58 | 21 2 | 0 21 | 23 23 | 0 9 | 21 45 | 0 37 | 22 40 | 0 11 | 20 2 | 2 43 | 22 4 | 21 52 | 19 53 | | n.a. |
| S 13 | 23 14 | 19 30 | 4 56 | 25 3 | 1 32 | 10 18 | 2 45 | 24 40 | 0 58 | 21 4 | 0 21 | 23 24 | 0 9 | 21 46 | 0 37 | 22 40 | 0 11 | 20 2 | 2 43 | 22 5 | 21 52 | 19 51 | | n.a. |
| S 14 | 23 19 | 23 7 | 4 23 | 24 51 | 1 24 | 10 41 | 2 45 | 24 41 | 0 59 | 21 7 | 0 21 | 23 24 | 0 9 | 21 46 | 0 37 | 22 40 | 0 11 | 20 2 | 2 43 | 22 6 | 21 53 | 19 48 | | n.a. |
| M15 | 23 23 | 25 23 | 3 32 | 24 36 | 1 15 | 11 5 | 2 44 | 24 41 | 0 59 | 21 9 | 0 21 | 23 25 | 0 9 | 21 47 | 0 38 | 22 41 | 0 11 | 20 2 | 2 43 | 22 7 | 21 53 | 19 46 | | n.a. |
| T 16 | 23 27 | 25 56 | 2 26 | 24 21 | 1 5 | 11 28 | 2 43 | 24 41 | 0 59 | 21 12 | 0 21 | 23 25 | 0 9 | 21 47 | 0 38 | 22 41 | 0 11 | 20 2 | 2 43 | 22 7 | 21 54 | 19 44 | | n.a. |
| W17 | 23 31 | 24 37 | 1 9 | 24 4 | 0 53 | 11 51 | 2 42 | 24 41 | 0 59 | 21 14 | 0 21 | 23 26 | 0 9 | 21 47 | 0 38 | 22 41 | 0 11 | 20 2 | 2 43 | 22 7 | 21 54 | 19 42 | | n.a. |
| T 18 | 23 34 | 21 33 | 0n13 | 23 46 | 0 41 | 12 14 | 2 41 | 24 41 | 1 0 | 21 17 | 0 21 | 23 26 | 0 9 | 21 48 | 0 38 | 22 41 | 0 11 | 20 2 | 2 42 | 22 7 | 21 55 | 19 39 | | n.a. |
| F 19 | 23 36 | 17 4 | 1 33 | 23 27 | 0 28 | 12 37 | 2 40 | 24 40 | 1 0 | 21 19 | 0 20 | 23 27 | 0 9 | 21 48 | 0 38 | 22 41 | 0 11 | 20 2 | 2 42 | 22 7 | 21 55 | 19 37 | | n.a. |
| S 20 | 23 38 | 11 38 | 2 46 | 23 7 | 0 13 | 13 0 | 2 39 | 24 39 | 1 0 | 21 21 | 0 20 | 23 27 | 0 9 | 21 49 | 0 38 | 22 41 | 0 11 | 20 2 | 2 42 | 22 7 | 21 56 | 19 35 | | n.a. |
| S 21 | 23 40 | 5 40 | 3 47 | 22 47 | 0n 2 | 13 22 | 2 38 | 24 38 | 1 1 | 21 24 | 0 20 | 23 28 | 0 10 | 21 49 | 0 38 | 22 42 | 0 11 | 20 2 | 2 42 | 22 7 | 21 56 | 19 32 | | n.a. |
| M22 | 23 41 | 0n25 | 4 34 | 22 28 | 0 19 | 13 44 | 2 36 | 24 36 | 1 1 | 21 26 | 0 20 | 23 28 | 0 10 | 21 49 | 0 38 | 22 42 | 0 11 | 20 2 | 2 42 | 22 7 | 21 57 | 19 30 | | n.a. |
| T 23 | 23 42 | 6 20 | 5 3 | 22 8 | 0 36 | 14 6 | 2 35 | 24 34 | 1 1 | 21 28 | 0 20 | 23 29 | 0 10 | 21 50 | 0 38 | 22 42 | 0 11 | 20 2 | 2 42 | 22 7 | 21 57 | 19 28 | | n.a. |
| W24 | 23 42 | 11 50 | 5 15 | 21 49 | 0 54 | 14 28 | 2 33 | 24 32 | 1 1 | 21 31 | 0 20 | 23 29 | 0 10 | 21 50 | 0 38 | 22 42 | 0 10 | 20 2 | 2 42 | 22 7 | 21 58 | 19 26 | | n.a. |
| T 25 | 23 42 | 16 40 | 5 11 | 21 31 | 1 12 | 14 49 | 2 31 | 24 30 | 1 1 | 21 33 | 0 20 | 23 29 | 0 10 | 21 51 | 0 38 | 22 42 | 0 10 | 20 1 | 2 42 | 22 7 | 21 58 | 19 23 | | n.a. |
| F 26 | 23 41 | 20 40 | 4 51 | 21 14 | 1 31 | 15 11 | 2 30 | 24 27 | 1 2 | 21 35 | 0 20 | 23 30 | 0 10 | 21 51 | 0 38 | 22 43 | 0 10 | 20 1 | 2 42 | 22 8 | 21 59 | 19 21 | | n.a. |
| S 27 | 23 40 | 23 38 | 4 17 | 20 58 | 1 50 | 15 31 | 2 28 | 24 24 | 1 2 | 21 37 | 0 20 | 23 30 | 0 10 | 21 52 | 0 38 | 22 43 | 0 10 | 20 1 | 2 42 | 22 8 | 21 59 | 19 19 | | n.a. |
| S 28 | 23 38 | 25 26 | 3 32 | 20 44 | 2 8 | 15 52 | 2 26 | 24 20 | 1 2 | 21 39 | 0 20 | 23 31 | 0 10 | 21 52 | 0 38 | 22 43 | 0 10 | 20 1 | 2 42 | 22 8 | 22 0 | 19 16 | | n.a. |
| M29 | 23 36 | 25 59 | 2 37 | 20 32 | 2 25 | 16 12 | 2 24 | 24 17 | 1 2 | 21 42 | 0 20 | 23 31 | 0 10 | 21 53 | 0 38 | 22 43 | 0 10 | 20 1 | 2 42 | 22 9 | 22 0 | 19 14 | | n.a. |
| T 30 | 23 33 | 25 17 | 1 36 | 20 21 | 2 42 | 16 32 | 2 22 | 24 13 | 1 3 | 21 44 | 0 20 | 23 32 | 0 11 | 21 53 | 0 38 | 22 43 | 0 10 | 20 1 | 2 42 | 22 9 | 22 1 | 19 12 | | n.a. |
| W31 | 23s30 | 23n25 | 0n32 | 20s12 | 2n57 | 16s52 | 2n19 | 24s 9 | 1s 3 | 21s46 | 0n19 | 23n32 | 0n11 | 21n54 | 0n38 | 22n44 | 0s10 | 20n 1 | 2s41 | 22s 9 | 22s 1 | 19n 9 | | n.a. |

Julian Day Number = 1700572.5, Delta T = 03h05m47s
Ecliptic obliquity = 23°42'10, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°51'06, Lahiri = - 4°44'06 Julian Calendar 1 Dec. 58 BCE == Greg. Calendar 29 Nov. 058 BCE

The year -57 astronomical counting style corresponds to year 058 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 57 BCE
# geocentric

## JANUARY 57 BCE (-56) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 28 51 | 8♉13'16 | 26♋24 | 11°R 1 | 25♏43 | 13♉20 | 9♐29 | 9°R23 | 25°R28 | 14°R32 | 13°R38 | 20♉17 | 21♉ 5 | 1♌33 | n.a. | T 1 |
| F 2 | 6 32 48 | 9°14'12 | 8♌12 | 9♉48 | 26°54 | 14° 8 | 9°42 | 9♋18 | 25♋25 | 14♋30 | 13♊37 | 20°18 | 21° 1 | 1°40 | n.a. | F 2 |
| S 3 | 6 36 44 | 10°15'07 | 20° 0 | 8°34 | 28° 4 | 14°55 | 9°55 | 9°13 | 25°23 | 14°28 | 13°36 | 20°19 | 20°58 | 1°47 | n.a. | S 3 |
| S 4 | 6 40 41 | 11°16'02 | 1♍50 | 7°20 | 29°15 | 15°43 | 10° 7 | 9° 8 | 25°20 | 14°27 | 13°35 | 20°20 | 20°55 | 1°53 | n.a. | S 4 |
| M 5 | 6 44 37 | 12°16'55 | 13°47 | 6° 9 | 0♐26 | 16°30 | 10°20 | 9° 3 | 25°18 | 14°25 | 13°34 | 20°21 | 20°52 | 2° 0 | n.a. | M 5 |
| T 6 | 6 48 34 | 13°17'47 | 25°55 | 5° 2 | 1°37 | 17°17 | 10°33 | 8°58 | 25°15 | 14°23 | 13°33 | 20°22 | 20°49 | 2° 7 | n.a. | T 6 |
| W 7 | 6 52 30 | 14°18'39 | 8♎17 | 4° 1 | 2°48 | 18° 5 | 10°46 | 8°53 | 25°13 | 14°22 | 13°32 | 20°22 | 20°46 | 2°13 | n.a. | W 7 |
| T 8 | 6 56 27 | 15°19'29 | 20°59 | 3° 7 | 4° 0 | 18°52 | 10°58 | 8°48 | 25°10 | 14°20 | 13°30 | 20°R22 | 20°42 | 2°20 | n.a. | T 8 |
| F 9 | 7 0 23 | 16°20'18 | 4♏ 4 | 2°20 | 5°11 | 19°40 | 11°11 | 8°43 | 25° 8 | 14°18 | 13°29 | 20°22 | 20°39 | 2°27 | n.a. | F 9 |
| S 10 | 7 4 20 | 17°21'06 | 17°35 | 1°42 | 6°22 | 20°27 | 11°23 | 8°38 | 25° 5 | 14°16 | 13°28 | 20°21 | 20°36 | 2°33 | n.a. | S 10 |
| S 11 | 7 8 17 | 18°21'53 | 1♐33 | 1°11 | 7°34 | 21°14 | 11°36 | 8°34 | 25° 3 | 14°15 | 13°27 | 20°21 | 20°33 | 2°40 | n.a. | S 11 |
| M12 | 7 12 13 | 19°22'39 | 15°58 | 0°49 | 8°45 | 22° 2 | 11°48 | 8°29 | 25° 0 | 14°13 | 13°26 | 20°21 | 20°30 | 2°47 | n.a. | M12 |
| T 13 | 7 16 10 | 20°23'23 | 0♑46 | 0°36 | 9°57 | 22°49 | 12° 1 | 8°24 | 24°57 | 14°11 | 13°25 | 20°D21 | 20°27 | 2°53 | n.a. | T 13 |
| W14 | 7 20 6 | 21°24'07 | 15°50 | 0°D29 | 11° 8 | 23°37 | 12°13 | 8°19 | 24°55 | 14°10 | 13°24 | 20°R21 | 20°23 | 3° 0 | n.a. | W14 |
| T 15 | 7 24 3 | 22°24'48 | 1♒ 2 | 0°30 | 12°20 | 24°24 | 12°25 | 8°15 | 24°52 | 14° 8 | 13°24 | 20°21 | 20°20 | 3° 7 | n.a. | T 15 |
| F 16 | 7 27 59 | 23°25'28 | 16°12 | 0°38 | 13°32 | 25°12 | 12°37 | 8°10 | 24°49 | 14° 6 | 13°23 | 20°21 | 20°17 | 3°13 | n.a. | F 16 |
| S 17 | 7 31 56 | 24°26'06 | 1♓11 | 0°53 | 14°43 | 25°59 | 12°49 | 8° 5 | 24°47 | 14° 5 | 13°22 | 20°20 | 20°14 | 3°20 | n.a. | S 17 |
| S 18 | 7 35 53 | 25°26'42 | 15°52 | 1°13 | 15°55 | 26°46 | 13° 1 | 8° 1 | 24°44 | 14° 3 | 13°21 | 20°20 | 20°11 | 3°27 | n.a. | S 18 |
| M19 | 7 39 49 | 26°27'17 | 0♈ 8 | 1°39 | 17° 7 | 27°34 | 13°13 | 7°56 | 24°42 | 14° 1 | 13°20 | 20°19 | 20° 7 | 3°33 | n.a. | M19 |
| T 20 | 7 43 46 | 27°27'49 | 13°59 | 2°11 | 18°19 | 28°21 | 13°25 | 7°52 | 24°39 | 14° 0 | 13°19 | 20°19 | 20° 4 | 3°40 | n.a. | T 20 |
| W21 | 7 47 42 | 28°28'20 | 27°24 | 2°46 | 19°31 | 29° 8 | 13°37 | 7°47 | 24°36 | 13°58 | 13°18 | 20°D19 | 20° 1 | 3°46 | n.a. | W21 |
| T 22 | 7 51 39 | 29°28'48 | 10♉24 | 3°27 | 20°43 | 29°56 | 13°48 | 7°43 | 24°34 | 13°57 | 13°17 | 20°19 | 19°58 | 3°53 | n.a. | T 22 |
| F 23 | 7 55 35 | 0♒29'14 | 23° 4 | 4°11 | 21°55 | 0♒43 | 14° 0 | 7°38 | 24°31 | 13°55 | 13°17 | 20°19 | 19°55 | 4° 0 | n.a. | F 23 |
| S 24 | 7 59 32 | 1°29'39 | 5♊27 | 4°59 | 23° 7 | 1°30 | 14°12 | 7°34 | 24°29 | 13°53 | 13°16 | 20°20 | 19°52 | 4° 6 | n.a. | S 24 |
| S 25 | 8 3 28 | 2°30'01 | 17°37 | 5°51 | 24°19 | 2°18 | 14°23 | 7°30 | 24°26 | 13°52 | 13°15 | 20°21 | 19°48 | 4°13 | n.a. | S 25 |
| M26 | 8 7 25 | 3°30'22 | 29°37 | 6°45 | 25°31 | 3° 5 | 14°34 | 7°26 | 24°23 | 13°50 | 13°14 | 20°23 | 19°45 | 4°20 | n.a. | M26 |
| T 27 | 8 11 22 | 4°30'40 | 11♋30 | 7°43 | 26°43 | 3°52 | 14°46 | 7°22 | 24°21 | 13°49 | 13°14 | 20°23 | 19°42 | 4°26 | n.a. | T 27 |
| W28 | 8 15 18 | 5°30'57 | 23°19 | 8°43 | 27°55 | 4°39 | 14°57 | 7°18 | 24°18 | 13°47 | 13°13 | 20°R24 | 19°39 | 4°33 | n.a. | W28 |
| T 29 | 8 19 15 | 6°31'12 | 5♌ 7 | 9°46 | 29° 7 | 5°27 | 15° 8 | 7°14 | 24°16 | 13°45 | 13°12 | 20°23 | 19°36 | 4°40 | n.a. | T 29 |
| F 30 | 8 23 11 | 7°31'24 | 16°56 | 10°52 | 0♑20 | 6°14 | 15°19 | 7°10 | 24°13 | 13°44 | 13°12 | 20°21 | 19°33 | 4°46 | n.a. | F 30 |
| S 31 | 8 27 8 | 8♒31'35 | 28♌47 | 11♑59 | 1♑32 | 7♒ 1 | 15♐30 | 7♋ 6 | 24♋11 | 13♋42 | 13♊11 | 20♉19 | 19♉29 | 4♌53 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 23 s27 | 20n33 | 0 s34 | 20 s 5 | 3n10 | 17 s11 | 2n17 | 24 s 4 | 1 s 3 | 21 s48 | 0n19 | 23n33 | 0n11 | 21n54 | 0n38 | 22n44 | 0 s10 | 20n 1 | 2 s41 | 22 s 9 | 22 s 2 | 19n 7 | | | n.a. |
| F 2 | 23 23 | 16 50 | 1 38 | 20 0 | 3 21 | 17 30 | 2 15 | 23 59 | 1 3 | 21 50 | 0 19 | 23 33 | 0 11 | 21 55 | 0 38 | 22 44 | 0 10 | 20 1 | 2 41 | 22 9 | 22 2 | 19 5 | | | n.a. |
| S 3 | 23 18 | 12 29 | 2 38 | 19 56 | 3 29 | 17 48 | 2 12 | 23 54 | 1 3 | 21 52 | 0 19 | 23 34 | 0 11 | 21 55 | 0 38 | 22 44 | 0 10 | 20 1 | 2 41 | 22 9 | 22 3 | 19 2 | | | n.a. |
| S 4 | 23 13 | 7 39 | 3 31 | 19 55 | 3 36 | 18 6 | 2 10 | 23 49 | 1 3 | 21 54 | 0 19 | 23 34 | 0 11 | 21 56 | 0 38 | 22 44 | 0 10 | 20 1 | 2 41 | 22 9 | 22 3 | 19 0 | | | n.a. |
| M 5 | 23 8 | 2 31 | 4 16 | 19 54 | 3 39 | 18 24 | 2 7 | 23 43 | 1 4 | 21 56 | 0 19 | 23 35 | 0 11 | 21 56 | 0 38 | 22 45 | 0 10 | 20 1 | 2 41 | 22 9 | 22 4 | 18 58 | | | n.a. |
| T 6 | 23 2 | 2 s47 | 4 50 | 19 56 | 3 41 | 18 41 | 2 5 | 23 37 | 1 4 | 21 58 | 0 19 | 23 35 | 0 11 | 21 56 | 0 38 | 22 45 | 0 10 | 20 1 | 2 41 | 22 8 | 22 4 | 18 55 | | | n.a. |
| W 7 | 22 55 | 8 4 | 5 11 | 19 59 | 3 40 | 18 58 | 2 2 | 23 31 | 1 4 | 22 0 | 0 19 | 23 35 | 0 11 | 21 57 | 0 38 | 22 45 | 0 10 | 20 1 | 2 41 | 22 8 | 22 5 | 18 53 | | | n.a. |
| T 8 | 22 49 | 13 10 | 5 18 | 20 3 | 3 37 | 19 14 | 1 59 | 23 25 | 1 4 | 22 1 | 0 19 | 23 36 | 0 12 | 21 57 | 0 38 | 22 45 | 0 10 | 20 1 | 2 41 | 22 8 | 22 5 | 18 51 | | | n.a. |
| F 9 | 22 41 | 17 51 | 5 9 | 20 9 | 3 32 | 19 30 | 1 56 | 23 18 | 1 4 | 22 3 | 0 19 | 23 36 | 0 12 | 21 58 | 0 38 | 22 45 | 0 10 | 20 1 | 2 41 | 22 8 | 22 6 | 18 48 | | | n.a. |
| S 10 | 22 34 | 21 47 | 4 43 | 20 15 | 3 26 | 19 45 | 1 53 | 23 11 | 1 4 | 22 5 | 0 19 | 23 37 | 0 12 | 21 58 | 0 38 | 22 45 | 0 10 | 20 1 | 2 41 | 22 8 | 22 6 | 18 46 | | | n.a. |
| S 11 | 22 26 | 24 36 | 4 0 | 20 23 | 3 19 | 20 0 | 1 51 | 23 4 | 1 4 | 22 7 | 0 19 | 23 37 | 0 12 | 21 59 | 0 38 | 22 46 | 0 10 | 20 1 | 2 40 | 22 9 | 22 7 | 18 44 | | | n.a. |
| M12 | 22 17 | 25 56 | 3 0 | 20 32 | 3 10 | 20 14 | 1 48 | 22 56 | 1 5 | 22 9 | 0 19 | 23 38 | 0 12 | 21 59 | 0 38 | 22 46 | 0 10 | 20 1 | 2 40 | 22 9 | 22 7 | 18 41 | | | n.a. |
| T 13 | 22 8 | 25 29 | 1 47 | 20 42 | 3 0 | 20 28 | 1 45 | 22 49 | 1 5 | 22 10 | 0 18 | 23 38 | 0 12 | 22 0 | 0 38 | 22 46 | 0 10 | 20 1 | 2 40 | 22 9 | 22 8 | 18 39 | | | n.a. |
| W14 | 21 59 | 23 10 | 0 25 | 20 52 | 2 50 | 20 41 | 1 42 | 22 41 | 1 5 | 22 12 | 0 18 | 23 38 | 0 12 | 22 0 | 0 38 | 22 46 | 0 10 | 20 1 | 2 40 | 22 9 | 22 8 | 18 36 | | | n.a. |
| T 15 | 21 49 | 19 11 | 0n59 | 21 2 | 2 40 | 20 54 | 1 38 | 22 32 | 1 5 | 22 14 | 0 18 | 23 39 | 0 12 | 22 1 | 0 38 | 22 46 | 0 10 | 20 1 | 2 40 | 22 9 | 22 9 | 18 34 | | | n.a. |
| F 16 | 21 39 | 13 57 | 2 19 | 21 14 | 2 29 | 21 6 | 1 35 | 22 24 | 1 5 | 22 15 | 0 18 | 23 39 | 0 12 | 22 1 | 0 38 | 22 47 | 0 10 | 20 1 | 2 40 | 22 9 | 22 9 | 18 32 | | | n.a. |
| S 17 | 21 28 | 7 56 | 3 28 | 21 25 | 2 17 | 21 17 | 1 32 | 22 15 | 1 5 | 22 17 | 0 18 | 23 40 | 0 12 | 22 2 | 0 38 | 22 47 | 0 10 | 20 1 | 2 40 | 22 9 | 22 10 | 18 29 | | | n.a. |
| S 18 | 21 17 | 1 37 | 4 22 | 21 36 | 2 6 | 21 28 | 1 29 | 22 6 | 1 5 | 22 19 | 0 18 | 23 40 | 0 13 | 22 2 | 0 38 | 22 47 | 0 10 | 20 1 | 2 40 | 22 9 | 22 10 | 18 27 | | | n.a. |
| M19 | 21 6 | 4n36 | 4 58 | 21 47 | 1 54 | 21 39 | 1 26 | 21 56 | 1 5 | 22 20 | 0 18 | 23 40 | 0 13 | 22 3 | 0 38 | 22 47 | 0 10 | 20 1 | 2 40 | 22 9 | 22 11 | 18 25 | | | n.a. |
| T 20 | 20 54 | 10 25 | 5 16 | 21 58 | 1 43 | 21 49 | 1 23 | 21 47 | 1 5 | 22 22 | 0 18 | 23 41 | 0 13 | 22 3 | 0 38 | 22 47 | 0 10 | 20 1 | 2 40 | 22 9 | 22 11 | 18 22 | | | n.a. |
| W21 | 20 42 | 15 33 | 5 15 | 22 9 | 1 31 | 21 58 | 1 19 | 21 37 | 1 5 | 22 23 | 0 18 | 23 41 | 0 13 | 22 4 | 0 38 | 22 48 | 0 10 | 20 1 | 2 39 | 22 9 | 22 11 | 18 20 | | | n.a. |
| T 22 | 20 29 | 19 49 | 4 59 | 22 20 | 1 20 | 22 7 | 1 16 | 21 27 | 1 5 | 22 25 | 0 18 | 23 41 | 0 13 | 22 4 | 0 38 | 22 48 | 0 10 | 20 1 | 2 39 | 22 9 | 22 12 | 18 17 | | | n.a. |
| F 23 | 20 16 | 23 3 | 4 27 | 22 30 | 1 8 | 22 15 | 1 13 | 21 17 | 1 5 | 22 26 | 0 18 | 23 42 | 0 13 | 22 5 | 0 38 | 22 48 | 0 10 | 20 1 | 2 39 | 22 9 | 22 12 | 18 15 | | | n.a. |
| S 24 | 20 3 | 25 8 | 3 45 | 22 39 | 0 57 | 22 22 | 1 9 | 21 6 | 1 5 | 22 28 | 0 18 | 23 42 | 0 13 | 22 5 | 0 38 | 22 48 | 0 10 | 20 1 | 2 39 | 22 9 | 22 13 | 18 13 | | | n.a. |
| S 25 | 19 49 | 25 58 | 2 52 | 22 48 | 0 46 | 22 29 | 1 6 | 20 55 | 1 5 | 22 29 | 0 18 | 23 43 | 0 13 | 22 6 | 0 38 | 22 48 | 0 10 | 20 1 | 2 39 | 22 8 | 22 13 | 18 10 | | | n.a. |
| M26 | 19 35 | 25 35 | 1 53 | 22 56 | 0 36 | 22 35 | 1 3 | 20 45 | 1 5 | 22 31 | 0 18 | 23 43 | 0 13 | 22 6 | 0 38 | 22 48 | 0 10 | 20 1 | 2 39 | 22 8 | 22 14 | 18 8 | | | n.a. |
| T 27 | 19 21 | 24 1 | 0 49 | 23 3 | 0 25 | 22 40 | 0 59 | 20 33 | 1 5 | 22 32 | 0 17 | 23 43 | 0 13 | 22 7 | 0 38 | 22 49 | 0 10 | 20 1 | 2 39 | 22 8 | 22 14 | 18 5 | | | n.a. |
| W28 | 19 6 | 21 24 | 0 s16 | 23 10 | 0 15 | 22 45 | 0 56 | 20 22 | 1 5 | 22 33 | 0 17 | 23 44 | 0 14 | 22 7 | 0 38 | 22 49 | 0 10 | 20 1 | 2 39 | 22 8 | 22 15 | 18 3 | | | n.a. |
| T 29 | 18 51 | 17 54 | 1 21 | 23 15 | 0 5 | 22 49 | 0 53 | 20 10 | 1 5 | 22 35 | 0 17 | 23 44 | 0 14 | 22 8 | 0 38 | 22 49 | 0 10 | 20 1 | 2 39 | 22 8 | 22 15 | 18 0 | | | n.a. |
| F 30 | 18 35 | 13 41 | 2 22 | 23 19 | 0 s 4 | 22 53 | 0 49 | 19 58 | 1 5 | 22 36 | 0 17 | 23 44 | 0 14 | 22 8 | 0 38 | 22 49 | 0 10 | 20 1 | 2 38 | 22 8 | 22 16 | 17 58 | | | n.a. |
| S 31 | 18 s20 | 8n57 | 3 s17 | 23 s23 | 0 s14 | 22 s56 | 0n46 | 19 s46 | 1 s 5 | 22 s37 | 0n17 | 23n44 | 0n14 | 22n 8 | 0n38 | 22n49 | 0 s10 | 20n 1 | 2 s38 | 22 s 9 | 22 s16 | 17n56 | | | n.a. |

Julian Day Number = 1700603.5, Delta T = 03h05m46s
Ecliptic obliquity = 23°42'10, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°51'02, Lahiri = - 4°44'02 Julian Calendar 1 Jan. 57 BCE == Greg. Calendar 30 Dec. 058 BCE

The year -56 astronomical counting style corresponds to year 057 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 57 BCE
# geocentric

## FEBRUARY 57 BCE (-56) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 31 4 | 9♒31'44 | 10♍44 | 13♉ 9 | 2♉44 | 7♒48 | 15♐41 | 7°R 2 | 24°R 8 | 13°R41 | 13°R10 | 20°R16 | 19♉26 | 5♌ 0 | n.a. | S 1 |
| M 2 | 8 35 1 | 10°31'51 | 22°47 | 14°20 | 3°57 | 8°35 | 15°51 | 6♋58 | 24♋ 6 | 13♋39 | 13♊10 | 20♉13 | 19°23 | 5° 6 | n.a. | M 2 |
| T 3 | 8 38 57 | 11°31'56 | 5♎ 0 | 15°34 | 5° 9 | 9°23 | 16° 2 | 6°55 | 24° 3 | 13°38 | 13° 9 | 20° 9 | 19°20 | 5°13 | n.a. | T 3 |
| W 4 | 8 42 54 | 12°32'00 | 17°26 | 16°49 | 6°22 | 10°10 | 16°12 | 6°51 | 24° 1 | 13°37 | 13° 8 | 20° 7 | 19°17 | 5°20 | n.a. | W 4 |
| T 5 | 8 46 50 | 13°32'02 | 0♏ 7 | 18° 6 | 7°34 | 10°57 | 16°23 | 6°48 | 23°58 | 13°35 | 13° 8 | 20° 5 | 19°13 | 5°26 | n.a. | T 5 |
| F 6 | 8 50 47 | 14°32'02 | 13° 7 | 19°25 | 8°46 | 11°44 | 16°33 | 6°44 | 23°56 | 13°34 | 13° 7 | 20°D 4 | 19°10 | 5°33 | n.a. | F 6 |
| S 7 | 8 54 44 | 15°32'00 | 26°29 | 20°45 | 9°59 | 12°31 | 16°43 | 6°41 | 23°53 | 13°32 | 13° 7 | 20° 5 | 19° 7 | 5°40 | n.a. | S 7 |
| S 8 | 8 58 40 | 16°31'57 | 10♐14 | 22° 6 | 11°11 | 13°18 | 16°53 | 6°38 | 23°51 | 13°31 | 13° 6 | 20° 6 | 19° 4 | 5°46 | n.a. | S 8 |
| M 9 | 9 2 37 | 17°31'52 | 24°25 | 23°30 | 12°24 | 14° 5 | 17° 3 | 6°35 | 23°49 | 13°30 | 13° 6 | 20° 7 | 19° 1 | 5°53 | n.a. | M 9 |
| T 10 | 9 6 33 | 18°31'46 | 8♑59 | 24°54 | 13°37 | 14°52 | 17°13 | 6°32 | 23°46 | 13°28 | 13° 6 | 20° 9 | 18°58 | 5°59 | n.a. | T 10 |
| W11 | 9 10 30 | 19°31'37 | 23°53 | 26°20 | 14°49 | 15°39 | 17°23 | 6°29 | 23°44 | 13°27 | 13° 5 | 20°R 9 | 18°54 | 6° 6 | n.a. | W11 |
| T 12 | 9 14 26 | 20°31'27 | 9♒ 1 | 27°47 | 16° 2 | 16°26 | 17°33 | 6°26 | 23°42 | 13°26 | 13° 5 | 20° 8 | 18°51 | 6°13 | n.a. | T 12 |
| F 13 | 9 18 23 | 21°31'14 | 24°13 | 29°16 | 17°15 | 17°13 | 17°42 | 6°23 | 23°40 | 13°24 | 13° 4 | 20° 5 | 18°48 | 6°19 | n.a. | F 13 |
| S 14 | 9 22 19 | 22°30'59 | 9♓20 | 0♒46 | 18°27 | 18° 0 | 17°52 | 6°21 | 23°37 | 13°23 | 13° 4 | 20° 1 | 18°45 | 6°26 | n.a. | S 14 |
| S 15 | 9 26 16 | 23°30'42 | 24°13 | 2°17 | 19°40 | 18°47 | 18° 1 | 6°18 | 23°35 | 13°22 | 13° 4 | 19°56 | 18°42 | 6°33 | n.a. | S 15 |
| M16 | 9 30 13 | 24°30'23 | 8♈43 | 3°50 | 20°53 | 19°34 | 18°10 | 6°16 | 23°33 | 13°21 | 13° 3 | 19°51 | 18°39 | 6°39 | n.a. | M16 |
| T 17 | 9 34 9 | 25°30'01 | 22°46 | 5°23 | 22° 5 | 20°20 | 18°19 | 6°13 | 23°31 | 13°20 | 13° 3 | 19°46 | 18°35 | 6°46 | n.a. | T 17 |
| W18 | 9 38 6 | 26°29'38 | 6♉20 | 6°58 | 23°18 | 21° 7 | 18°28 | 6°11 | 23°29 | 13°18 | 13° 3 | 19°43 | 18°32 | 6°53 | n.a. | W18 |
| T 19 | 9 42 2 | 27°29'11 | 19°26 | 8°35 | 24°31 | 21°54 | 18°37 | 6° 9 | 23°27 | 13°17 | 13° 3 | 19°41 | 18°29 | 6°59 | n.a. | T 19 |
| F 20 | 9 45 59 | 28°28'43 | 2♊ 7 | 10°12 | 25°43 | 22°41 | 18°46 | 6° 7 | 23°25 | 13°16 | 13° 3 | 19°D41 | 18°26 | 7° 6 | n.a. | F 20 |
| S 21 | 9 49 55 | 29°28'11 | 14°28 | 11°51 | 26°56 | 23°27 | 18°54 | 6° 5 | 23°23 | 13°15 | 13° 2 | 19°42 | 18°23 | 7°13 | n.a. | S 21 |
| S 22 | 9 53 52 | 0♓27'38 | 26°33 | 13°31 | 28° 9 | 24°14 | 19° 3 | 6° 3 | 23°21 | 13°14 | 13° 2 | 19°43 | 18°19 | 7°19 | n.a. | S 22 |
| M23 | 9 57 48 | 1°27'02 | 8♋28 | 15°13 | 29°22 | 25° 1 | 19°11 | 6° 1 | 23°19 | 13°13 | 13° 2 | 19°45 | 18°16 | 7°26 | n.a. | M23 |
| T 24 | 10 1 45 | 2°26'24 | 20°16 | 16°55 | 0♒34 | 25°47 | 19°19 | 6° 0 | 23°17 | 13°12 | 13° 2 | 19°R46 | 18°13 | 7°33 | n.a. | T 24 |
| W25 | 10 5 42 | 3°25'43 | 2♌ 3 | 18°39 | 1°47 | 26°34 | 19°28 | 5°58 | 23°15 | 13°11 | 13° 2 | 19°45 | 18°10 | 7°39 | n.a. | W25 |
| T 26 | 10 9 38 | 4°25'01 | 13°51 | 20°25 | 3° 0 | 27°20 | 19°35 | 5°57 | 23°13 | 13°10 | 13° 2 | 19°42 | 18° 7 | 7°46 | n.a. | T 26 |
| F 27 | 10 13 35 | 5°24'15 | 25°43 | 22°11 | 4°13 | 28° 7 | 19°43 | 5°55 | 23°12 | 13° 9 | 13° 2 | 19°37 | 18° 4 | 7°53 | n.a. | F 27 |
| S 28 | 10 17 31 | 6°23'28 | 7♍42 | 23°59 | 5°26 | 28°53 | 19°51 | 5°54 | 23°10 | 13° 8 | 13°D 2 | 19°30 | 18° 0 | 7°59 | n.a. | S 28 |
| S 29 | 10 21 28 | 7♓22'38 | 19♍48 | 25♒49 | 6♒39 | 29♒40 | 19♐58 | 5♋53 | 23♋ 8 | 13♋ 8 | 13♊ 2 | 19♉21 | 17♉57 | 8♌ 6 | n.a. | S 29 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 18s 4 | 3n52 | 4s 3 | 23s25 | 0s23 | 22s58 | 0n43 | 19s34 | 1s 5 | 22s38 | 0n17 | 23n45 | 0n14 | 22n 9 | 0n38 | 22n50 | 0s10 | 20n 1 | 2s38 | 22s 9 | 22s17 | 17n53 | | n.a. |
| M 2 | 17 47 | 1s23 | 4 40 | 23 26 | 0 31 | 22 59 | 0 39 | 19 22 | 1 5 | 22 40 | 0 17 | 23 45 | 0 14 | 22 9 | 0 38 | 22 50 | 0 10 | 20 1 | 2 38 | 22 10 | 22 17 | 17 51 | | n.a. |
| T 3 | 17 31 | 6 39 | 5 4 | 23 26 | 0 40 | 23 0 | 0 36 | 19 9 | 1 5 | 22 41 | 0 17 | 23 45 | 0 14 | 22 10 | 0 38 | 22 50 | 0 10 | 20 1 | 2 38 | 22 10 | 22 18 | 17 48 | | n.a. |
| W 4 | 17 14 | 11 45 | 5 15 | 23 25 | 0 48 | 23 0 | 0 32 | 18 56 | 1 5 | 22 42 | 0 17 | 23 46 | 0 14 | 22 10 | 0 38 | 22 50 | 0 10 | 20 1 | 2 38 | 22 11 | 22 18 | 17 46 | | n.a. |
| T 5 | 16 57 | 16 28 | 5 10 | 23 23 | 0 55 | 23 0 | 0 29 | 18 43 | 1 5 | 22 43 | 0 17 | 23 46 | 0 14 | 22 11 | 0 38 | 22 50 | 0 10 | 20 1 | 2 38 | 22 11 | 22 18 | 17 43 | | n.a. |
| F 6 | 16 39 | 20 33 | 4 50 | 23 19 | 1 3 | 22 59 | 0 26 | 18 30 | 1 5 | 22 44 | 0 17 | 23 46 | 0 14 | 22 11 | 0 38 | 22 50 | 0 10 | 20 1 | 2 38 | 22 11 | 22 19 | 17 41 | | n.a. |
| S 7 | 16 21 | 23 41 | 4 14 | 23 14 | 1 10 | 22 57 | 0 22 | 18 16 | 1 5 | 22 45 | 0 17 | 23 46 | 0 14 | 22 11 | 0 38 | 22 50 | 0 10 | 20 1 | 2 38 | 22 11 | 22 19 | 17 38 | | n.a. |
| S 8 | 16 3 | 25 34 | 3 22 | 23 8 | 1 17 | 22 54 | 0 19 | 18 3 | 1 5 | 22 46 | 0 17 | 23 47 | 0 15 | 22 12 | 0 38 | 22 51 | 0 10 | 20 1 | 2 37 | 22 11 | 22 20 | 17 36 | | n.a. |
| M 9 | 15 45 | 25 52 | 2 17 | 23 0 | 1 23 | 22 51 | 0 16 | 17 49 | 1 5 | 22 47 | 0 17 | 23 47 | 0 15 | 22 12 | 0 38 | 22 51 | 0 10 | 20 1 | 2 37 | 22 11 | 22 20 | 17 34 | | n.a. |
| T 10 | 15 26 | 24 25 | 1 1 | 22 50 | 1 29 | 22 47 | 0 13 | 17 35 | 1 5 | 22 49 | 0 16 | 23 47 | 0 15 | 22 13 | 0 38 | 22 51 | 0 10 | 20 1 | 2 37 | 22 10 | 22 21 | 17 31 | | n.a. |
| W11 | 15 8 | 21 14 | 0n21 | 22 40 | 1 35 | 22 43 | 0 9 | 17 21 | 1 5 | 22 50 | 0 16 | 23 47 | 0 15 | 22 13 | 0 38 | 22 51 | 0 10 | 20 1 | 2 37 | 22 10 | 22 21 | 17 29 | | n.a. |
| T 12 | 14 48 | 16 34 | 1 42 | 22 28 | 1 40 | 22 38 | 0 6 | 17 6 | 1 4 | 22 50 | 0 16 | 23 48 | 0 15 | 22 13 | 0 38 | 22 51 | 0 10 | 20 1 | 2 37 | 22 10 | 22 22 | 17 26 | | n.a. |
| F 13 | 14 29 | 10 50 | 2 56 | 22 14 | 1 45 | 22 32 | 0 3 | 16 52 | 1 4 | 22 51 | 0 16 | 23 48 | 0 15 | 22 14 | 0 38 | 22 51 | 0 10 | 20 1 | 2 37 | 22 11 | 22 22 | 17 24 | | n.a. |
| S 14 | 14 10 | 4 30 | 3 57 | 21 59 | 1 49 | 22 25 | 0s 0 | 16 37 | 1 4 | 22 52 | 0 16 | 23 48 | 0 15 | 22 14 | 0 38 | 22 52 | 0 10 | 20 2 | 2 37 | 22 12 | 22 22 | 17 21 | | n.a. |
| S 15 | 13 50 | 1n59 | 4 41 | 21 42 | 1 53 | 22 18 | 0 3 | 16 22 | 1 4 | 22 53 | 0 16 | 23 48 | 0 15 | 22 15 | 0 38 | 22 52 | 0 10 | 20 2 | 2 37 | 22 12 | 22 23 | 17 19 | | n.a. |
| M16 | 13 30 | 8 10 | 5 6 | 21 24 | 1 57 | 22 10 | 0 6 | 16 8 | 1 4 | 22 54 | 0 16 | 23 48 | 0 15 | 22 15 | 0 38 | 22 52 | 0 10 | 20 2 | 2 36 | 22 13 | 22 23 | 17 16 | | n.a. |
| T 17 | 13 10 | 13 45 | 5 12 | 21 4 | 2 0 | 22 2 | 0 9 | 15 52 | 1 4 | 22 55 | 0 16 | 23 49 | 0 15 | 22 15 | 0 38 | 22 52 | 0 10 | 20 2 | 2 36 | 22 14 | 22 24 | 17 14 | | n.a. |
| W18 | 12 49 | 18 28 | 4 59 | 20 43 | 2 3 | 21 52 | 0 13 | 15 37 | 1 4 | 22 56 | 0 16 | 23 49 | 0 15 | 22 16 | 0 38 | 22 52 | 0 10 | 20 2 | 2 36 | 22 14 | 22 24 | 17 11 | | n.a. |
| T 19 | 12 29 | 22 7 | 4 31 | 20 20 | 2 6 | 21 43 | 0 16 | 15 22 | 1 3 | 22 57 | 0 16 | 23 49 | 0 16 | 22 16 | 0 38 | 22 52 | 0 10 | 20 2 | 2 36 | 22 14 | 22 25 | 17 9 | | n.a. |
| F 20 | 12 8 | 24 35 | 3 51 | 19 56 | 2 8 | 21 32 | 0 18 | 15 6 | 1 3 | 22 58 | 0 16 | 23 49 | 0 16 | 22 16 | 0 38 | 22 52 | 0 10 | 20 2 | 2 36 | 22 14 | 22 25 | 17 6 | | n.a. |
| S 21 | 11 47 | 25 46 | 3 0 | 19 30 | 2 9 | 21 21 | 0 21 | 14 51 | 1 3 | 22 58 | 0 16 | 23 49 | 0 16 | 22 17 | 0 38 | 22 52 | 0 10 | 20 2 | 2 36 | 22 14 | 22 26 | 17 4 | | n.a. |
| S 22 | 11 26 | 25 42 | 2 3 | 19 2 | 2 11 | 21 9 | 0 24 | 14 35 | 1 3 | 22 59 | 0 16 | 23 50 | 0 16 | 22 17 | 0 38 | 22 53 | 0 10 | 20 2 | 2 36 | 22 14 | 22 26 | 17 1 | | n.a. |
| M23 | 11 5 | 24 27 | 1 1 | 18 32 | 2 11 | 20 57 | 0 27 | 14 19 | 1 3 | 23 0 | 0 16 | 23 50 | 0 16 | 22 17 | 0 38 | 22 53 | 0 10 | 20 2 | 2 36 | 22 14 | 22 26 | 16 59 | | n.a. |
| T 24 | 10 43 | 22 6 | 0s 3 | 18 1 | 2 12 | 20 44 | 0 30 | 14 3 | 1 3 | 23 1 | 0 15 | 23 50 | 0 16 | 22 18 | 0 38 | 22 53 | 0 10 | 20 2 | 2 36 | 22 14 | 22 27 | 16 56 | | n.a. |
| W25 | 10 22 | 18 51 | 1 6 | 17 29 | 2 11 | 20 31 | 0 33 | 13 46 | 1 2 | 23 1 | 0 15 | 23 50 | 0 16 | 22 18 | 0 38 | 22 53 | 0 10 | 20 3 | 2 35 | 22 14 | 22 27 | 16 54 | | n.a. |
| T 26 | 10 0 | 14 50 | 2 7 | 16 54 | 2 11 | 20 17 | 0 35 | 13 30 | 1 2 | 23 2 | 0 15 | 23 50 | 0 16 | 22 18 | 0 38 | 22 53 | 0 10 | 20 3 | 2 35 | 22 14 | 22 28 | 16 51 | | n.a. |
| F 27 | 9 38 | 10 14 | 3 2 | 16 18 | 2 10 | 20 2 | 0 38 | 13 14 | 1 2 | 23 3 | 0 15 | 23 50 | 0 16 | 22 18 | 0 38 | 22 53 | 0 10 | 20 3 | 2 35 | 22 15 | 22 28 | 16 49 | | n.a. |
| S 28 | 9 16 | 5 14 | 3 50 | 15 41 | 2 8 | 19 47 | 0 41 | 12 57 | 1 2 | 23 3 | 0 15 | 23 50 | 0 16 | 22 19 | 0 38 | 22 53 | 0 10 | 20 3 | 2 35 | 22 16 | 22 29 | 16 46 | | n.a. |
| S 29 | 8s54 | 0s 1 | 4s27 | 15s 1 | 2s 6 | 19s31 | 0s43 | 12s41 | 1s 2 | 23s 4 | 0n15 | 23n51 | 0n16 | 22n19 | 0n38 | 22n53 | 0s10 | 20n 3 | 2s35 | 22s17 | 22s29 | 16n44 | | n.a. |

Julian Day Number = 1700634.5, Delta T = 03h05m45s
Ecliptic obliquity = 23°42'10, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°50'58, Lahiri = - 4°43'58 Julian Calendar 1 Feb. 57 BCE == Greg. Calendar 30 Jan. 057 BCE

The year -56 astronomical counting style corresponds to year 057 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 57 BCE
# geocentric

## MARCH 57 BCE (-56) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 10 25 24 | 8♓21'47 | 2♎ 3 | 27♒39 | 7♒51 | 0♓26 | 20♐ 6 | 5°R52 | 23°R 7 | 13°R 7 | 13♊ 2 | 19°R12 | 17♑54 | 8♌13 | n.a. | M 1 |
| T 2 | 10 29 21 | 9°20'53 | 14°29 | 29°31 | 9° 4 | 1°12 | 20°13 | 5♋51 | 23♋ 5 | 13♋ 6 | 13° 2 | 19♑ 3 | 17°51 | 8°19 | n.a. | T 2 |
| W 3 | 10 33 17 | 10°19'57 | 27° 6 | 1♓25 | 10°17 | 1°59 | 20°20 | 5°50 | 23° 4 | 13° 5 | 13° 2 | 18°55 | 17°48 | 8°26 | n.a. | W 3 |
| T 4 | 10 37 14 | 11°19'00 | 9♏56 | 3°20 | 11°30 | 2°45 | 20°27 | 5°49 | 23° 2 | 13° 4 | 13° 2 | 18°48 | 17°44 | 8°33 | n.a. | T 4 |
| F 5 | 10 41 10 | 12°18'00 | 23° 0 | 5°16 | 12°43 | 3°31 | 20°34 | 5°49 | 23° 1 | 13° 4 | 13° 2 | 18°44 | 17°41 | 8°39 | n.a. | F 5 |
| S 6 | 10 45 7 | 13°16'59 | 6♐20 | 7°13 | 13°56 | 4°17 | 20°40 | 5°48 | 22°59 | 13° 3 | 13° 2 | 18°43 | 17°38 | 8°46 | n.a. | S 6 |
| S 7 | 10 49 4 | 14°15'56 | 19°58 | 9°12 | 15° 9 | 5° 3 | 20°47 | 5°48 | 22°58 | 13° 2 | 13° 3 | 18°D42 | 17°35 | 8°52 | n.a. | S 7 |
| M 8 | 10 53 0 | 15°14'52 | 3♑55 | 11°12 | 16°22 | 5°49 | 20°53 | 5°48 | 22°57 | 13° 2 | 13° 3 | 18°43 | 17°32 | 8°59 | n.a. | M 8 |
| T 9 | 10 56 57 | 16°13'45 | 18°12 | 13°14 | 17°35 | 6°36 | 20°59 | 5°48 | 22°55 | 13° 1 | 13° 3 | 18°R44 | 17°29 | 9° 6 | n.a. | T 9 |
| W10 | 11 0 53 | 17°12'37 | 2♒47 | 15°16 | 18°48 | 7°22 | 21° 5 | 5°D48 | 22°54 | 13° 1 | 13° 3 | 18°43 | 17°25 | 9°12 | n.a. | W10 |
| T 11 | 11 4 50 | 18°11'26 | 17°36 | 17°19 | 20° 1 | 8° 8 | 21°11 | 5°48 | 22°53 | 13° 0 | 13° 3 | 18°40 | 17°22 | 9°19 | n.a. | T 11 |
| F 12 | 11 8 46 | 19°10'14 | 2♓33 | 19°24 | 21°14 | 8°53 | 21°17 | 5°48 | 22°52 | 13° 0 | 13° 4 | 18°35 | 17°19 | 9°26 | n.a. | F 12 |
| S 13 | 11 12 43 | 20° 8'59 | 17°31 | 21°29 | 22°27 | 9°39 | 21°23 | 5°48 | 22°51 | 12°59 | 13° 4 | 18°27 | 17°16 | 9°32 | n.a. | S 13 |
| S 14 | 11 16 39 | 21° 7'43 | 2♈18 | 23°35 | 23°40 | 10°25 | 21°28 | 5°48 | 22°50 | 12°59 | 13° 4 | 18°17 | 17°13 | 9°39 | n.a. | S 14 |
| M15 | 11 20 36 | 22° 6'24 | 16°49 | 25°41 | 24°53 | 11°11 | 21°33 | 5°49 | 22°49 | 12°58 | 13° 5 | 18° 7 | 17°10 | 9°46 | n.a. | M15 |
| T 16 | 11 24 33 | 23° 5'04 | 0♉55 | 27°47 | 26° 6 | 11°57 | 21°38 | 5°50 | 22°48 | 12°58 | 13° 5 | 17°58 | 17° 6 | 9°52 | n.a. | T 16 |
| W17 | 11 28 29 | 24° 3'41 | 14°34 | 29°54 | 27°19 | 12°43 | 21°43 | 5°50 | 22°47 | 12°58 | 13° 6 | 17°50 | 17° 3 | 9°59 | n.a. | W17 |
| T 18 | 11 32 26 | 25° 2'16 | 27°45 | 1♈59 | 28°32 | 13°28 | 21°48 | 5°51 | 22°46 | 12°57 | 13° 6 | 17°45 | 17° 0 | 10° 6 | n.a. | T 18 |
| F 19 | 11 36 22 | 26° 0'48 | 10♊30 | 4° 5 | 29°45 | 14°14 | 21°52 | 5°52 | 22°45 | 12°57 | 13° 6 | 17°41 | 16°57 | 10°12 | n.a. | F 19 |
| S 20 | 11 40 19 | 26°59'19 | 22°53 | 6° 9 | 0♓58 | 14°59 | 21°57 | 5°53 | 22°45 | 12°57 | 13° 7 | 17°D40 | 16°54 | 10°19 | n.a. | S 20 |
| S 21 | 11 44 15 | 27°57'47 | 5♋ 0 | 8°12 | 2°11 | 15°45 | 22° 1 | 5°54 | 22°44 | 12°57 | 13° 7 | 17°40 | 16°50 | 10°26 | n.a. | S 21 |
| M22 | 11 48 12 | 28°56'13 | 16°54 | 10°14 | 3°24 | 16°30 | 22° 5 | 5°56 | 22°43 | 12°57 | 13° 8 | 17°R41 | 16°47 | 10°32 | n.a. | M22 |
| T 23 | 11 52 8 | 29°54'36 | 28°43 | 12°13 | 4°37 | 17°16 | 22° 9 | 5°57 | 22°43 | 12°56 | 13° 9 | 17°40 | 16°44 | 10°39 | n.a. | T 23 |
| W24 | 11 56 5 | 0♈52'58 | 10♌30 | 14°10 | 5°50 | 18° 1 | 22°13 | 5°58 | 22°42 | 12°56 | 13° 9 | 17°38 | 16°41 | 10°46 | n.a. | W24 |
| T 25 | 12 0 2 | 1°51'17 | 22°20 | 16° 5 | 7° 3 | 18°47 | 22°16 | 6° 0 | 22°42 | 12°56 | 13°10 | 17°33 | 16°38 | 10°52 | n.a. | T 25 |
| F 26 | 12 3 58 | 2°49'34 | 4♍18 | 17°57 | 8°16 | 19°32 | 22°19 | 6° 2 | 22°41 | 12°56 | 13°10 | 17°26 | 16°35 | 10°59 | n.a. | F 26 |
| S 27 | 12 7 55 | 3°47'49 | 16°25 | 19°46 | 9°29 | 20°17 | 22°23 | 6° 3 | 22°41 | 12°D56 | 13°11 | 17°16 | 16°31 | 11° 6 | n.a. | S 27 |
| S 28 | 12 11 51 | 4°46'02 | 28°43 | 21°31 | 10°42 | 21° 2 | 22°26 | 6° 5 | 22°41 | 12°56 | 13°12 | 17° 4 | 16°28 | 11°12 | n.a. | S 28 |
| M29 | 12 15 48 | 5°44'13 | 11♎14 | 23°13 | 11°55 | 21°48 | 22°28 | 6° 7 | 22°40 | 12°56 | 13°12 | 16°51 | 16°25 | 11°19 | n.a. | M29 |
| T 30 | 12 19 44 | 6°42'23 | 23°57 | 24°51 | 13° 8 | 22°33 | 22°31 | 6° 9 | 22°40 | 12°56 | 13°13 | 16°38 | 16°22 | 11°26 | n.a. | T 30 |
| W31 | 12 23 41 | 7♈40'31 | 6♏52 | 26♈25 | 14♓21 | 23♓18 | 22♐33 | 6♋12 | 22♋40 | 12♋56 | 13♊14 | 16♑26 | 16♑19 | 11♌32 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 8s31 | 5s18 | 4s53 | 14s20 | 2s 3 | 19s14 | 0s46 | 12s24 | 1s 1 | 23s 5 | 0n15 | 23n51 | 0n16 | 22n19 | 0n38 | 22n53 | 0s10 | 20n 3 | 2s35 | 22s19 | 22s29 | 16n41 | | n.a. |
| T 2 | 8 9 | 10 27 | 5 6 | 13 38 | 2 0 | 18 57 | 0 48 | 12 7 | 1 1 | 23 5 | 0 15 | 23 51 | 0 16 | 22 19 | 0 38 | 22 54 | 0 9 | 20 3 | 2 35 | 22 20 | 22 30 | 16 39 | | n.a. |
| W 3 | 7 47 | 15 16 | 5 4 | 12 54 | 1 56 | 18 40 | 0 51 | 11 50 | 1 1 | 23 6 | 0 15 | 23 51 | 0 17 | 22 20 | 0 38 | 22 54 | 0 9 | 20 3 | 2 35 | 22 21 | 22 30 | 16 36 | | n.a. |
| T 4 | 7 24 | 19 28 | 4 46 | 12 8 | 1 52 | 18 22 | 0 53 | 11 33 | 1 1 | 23 7 | 0 15 | 23 51 | 0 17 | 22 20 | 0 38 | 22 54 | 0 9 | 20 4 | 2 34 | 22 22 | 22 31 | 16 34 | | n.a. |
| F 5 | 7 1 | 22 49 | 4 14 | 11 20 | 1 47 | 18 4 | 0 55 | 11 16 | 1 0 | 23 7 | 0 15 | 23 51 | 0 17 | 22 20 | 0 38 | 22 54 | 0 9 | 20 4 | 2 34 | 22 23 | 22 31 | 16 31 | | n.a. |
| S 6 | 6 38 | 25 0 | 3 27 | 10 31 | 1 42 | 17 45 | 0 57 | 10 59 | 1 0 | 23 8 | 0 15 | 23 51 | 0 17 | 22 20 | 0 38 | 22 54 | 0 9 | 20 4 | 2 34 | 22 23 | 22 32 | 16 28 | | n.a. |
| S 7 | 6 16 | 25 47 | 2 28 | 9 41 | 1 36 | 17 25 | 1 0 | 10 41 | 1 0 | 23 8 | 0 15 | 23 51 | 0 17 | 22 21 | 0 38 | 22 54 | 0 9 | 20 4 | 2 34 | 22 23 | 22 32 | 16 26 | | n.a. |
| M 8 | 5 53 | 24 57 | 1 19 | 8 49 | 1 29 | 17 5 | 1 2 | 10 24 | 1 0 | 23 9 | 0 14 | 23 51 | 0 17 | 22 21 | 0 38 | 22 54 | 0 9 | 20 4 | 2 34 | 22 23 | 22 32 | 16 23 | | n.a. |
| T 9 | 5 29 | 22 30 | 0 3 | 7 56 | 1 22 | 16 45 | 1 4 | 10 6 | 0 59 | 23 9 | 0 14 | 23 51 | 0 17 | 22 21 | 0 38 | 22 54 | 0 9 | 20 4 | 2 34 | 22 23 | 22 33 | 16 21 | | n.a. |
| W10 | 5 6 | 18 33 | 1n15 | 7 1 | 1 15 | 16 24 | 1 6 | 9 49 | 0 59 | 23 10 | 0 14 | 23 51 | 0 17 | 22 21 | 0 38 | 22 54 | 0 9 | 20 4 | 2 34 | 22 23 | 22 33 | 16 18 | | n.a. |
| T 11 | 4 43 | 13 23 | 2 28 | 6 5 | 1 7 | 16 2 | 1 8 | 9 31 | 0 59 | 23 10 | 0 14 | 23 52 | 0 17 | 22 21 | 0 38 | 22 54 | 0 9 | 20 5 | 2 34 | 22 23 | 22 34 | 16 16 | | n.a. |
| F 12 | 4 20 | 7 23 | 3 32 | 5 8 | 0 58 | 15 40 | 1 9 | 9 14 | 0 58 | 23 11 | 0 14 | 23 52 | 0 17 | 22 22 | 0 38 | 22 54 | 0 9 | 20 5 | 2 33 | 22 24 | 22 34 | 16 13 | | n.a. |
| S 13 | 3 57 | 0 59 | 4 21 | 4 10 | 0 49 | 15 18 | 1 11 | 8 56 | 0 58 | 23 11 | 0 14 | 23 52 | 0 17 | 22 22 | 0 38 | 22 54 | 0 9 | 20 5 | 2 33 | 22 25 | 22 34 | 16 11 | | n.a. |
| S 14 | 3 33 | 5n23 | 4 52 | 3 11 | 0 40 | 14 56 | 1 13 | 8 38 | 0 58 | 23 12 | 0 14 | 23 52 | 0 17 | 22 22 | 0 38 | 22 54 | 0 9 | 20 5 | 2 33 | 22 26 | 22 35 | 16 8 | | n.a. |
| M15 | 3 10 | 11 20 | 5 4 | 2 11 | 0 30 | 14 32 | 1 15 | 8 20 | 0 57 | 23 12 | 0 14 | 23 52 | 0 17 | 22 22 | 0 38 | 22 55 | 0 9 | 20 5 | 2 33 | 22 28 | 22 35 | 16 5 | | n.a. |
| T 16 | 2 46 | 16 32 | 4 56 | 1 11 | 0 20 | 14 9 | 1 16 | 8 2 | 0 57 | 23 12 | 0 14 | 23 52 | 0 17 | 22 22 | 0 38 | 22 55 | 0 9 | 20 5 | 2 33 | 22 29 | 22 36 | 16 3 | | n.a. |
| W17 | 2 23 | 20 42 | 4 32 | 0 11 | 0 9 | 13 45 | 1 18 | 7 44 | 0 57 | 23 13 | 0 14 | 23 52 | 0 18 | 22 22 | 0 37 | 22 55 | 0 9 | 20 6 | 2 33 | 22 30 | 22 36 | 16 0 | | n.a. |
| T 18 | 2 0 | 23 40 | 3 53 | 0n50 | 0n 2 | 13 21 | 1 19 | 7 26 | 0 57 | 23 13 | 0 14 | 23 52 | 0 18 | 22 22 | 0 37 | 22 55 | 0 9 | 20 6 | 2 33 | 22 31 | 22 36 | 15 58 | | n.a. |
| F 19 | 1 36 | 25 19 | 3 4 | 1 50 | 0 13 | 12 56 | 1 21 | 7 8 | 0 56 | 23 13 | 0 14 | 23 52 | 0 18 | 22 22 | 0 37 | 22 55 | 0 9 | 20 6 | 2 33 | 22 31 | 22 37 | 15 55 | | n.a. |
| S 20 | 1 13 | 25 38 | 2 8 | 2 50 | 0 24 | 12 31 | 1 22 | 6 50 | 0 56 | 23 14 | 0 13 | 23 52 | 0 18 | 22 23 | 0 37 | 22 55 | 0 9 | 20 6 | 2 33 | 22 31 | 22 37 | 15 53 | | n.a. |
| S 21 | 0 49 | 24 43 | 1 7 | 3 49 | 0 35 | 12 6 | 1 23 | 6 32 | 0 56 | 23 14 | 0 13 | 23 52 | 0 18 | 22 23 | 0 37 | 22 55 | 0 9 | 20 6 | 2 32 | 22 31 | 22 38 | 15 50 | | n.a. |
| M22 | 0 26 | 22 41 | 0 4 | 4 48 | 0 46 | 11 41 | 1 24 | 6 14 | 0 55 | 23 15 | 0 13 | 23 52 | 0 18 | 22 23 | 0 37 | 22 55 | 0 9 | 20 6 | 2 32 | 22 31 | 22 38 | 15 47 | | n.a. |
| T 23 | 0 2 | 19 41 | 0s58 | 5 46 | 0 57 | 11 15 | 1 25 | 5 55 | 0 55 | 23 15 | 0 13 | 23 52 | 0 18 | 22 23 | 0 37 | 22 55 | 0 9 | 20 7 | 2 32 | 22 31 | 22 38 | 15 45 | | n.a. |
| W24 | 0n21 | 15 54 | 1 58 | 6 42 | 1 8 | 10 49 | 1 26 | 5 37 | 0 54 | 23 15 | 0 13 | 23 52 | 0 18 | 22 23 | 0 37 | 22 55 | 0 9 | 20 7 | 2 32 | 22 32 | 22 39 | 15 42 | | n.a. |
| T 25 | 0 45 | 11 29 | 2 53 | 7 36 | 1 19 | 10 22 | 1 27 | 5 19 | 0 54 | 23 15 | 0 13 | 23 52 | 0 18 | 22 23 | 0 37 | 22 55 | 0 9 | 20 7 | 2 32 | 22 32 | 22 39 | 15 40 | | n.a. |
| F 26 | 1 8 | 6 37 | 3 41 | 8 29 | 1 29 | 9 55 | 1 28 | 5 1 | 0 54 | 23 16 | 0 13 | 23 52 | 0 18 | 22 23 | 0 37 | 22 55 | 0 9 | 20 7 | 2 32 | 22 33 | 22 40 | 15 37 | | n.a. |
| S 27 | 1 32 | 1 27 | 4 19 | 9 20 | 1 39 | 9 28 | 1 29 | 4 42 | 0 53 | 23 16 | 0 13 | 23 52 | 0 18 | 22 23 | 0 37 | 22 55 | 0 9 | 20 7 | 2 32 | 22 34 | 22 40 | 15 34 | | n.a. |
| S 28 | 1 55 | 3s51 | 4 46 | 10 9 | 1 49 | 9 1 | 1 30 | 4 24 | 0 53 | 23 16 | 0 13 | 23 52 | 0 18 | 22 23 | 0 37 | 22 55 | 0 9 | 20 8 | 2 32 | 22 36 | 22 40 | 15 32 | | n.a. |
| M29 | 2 18 | 9 4 | 4 59 | 10 56 | 1 57 | 8 34 | 1 31 | 4 6 | 0 53 | 23 17 | 0 13 | 23 52 | 0 18 | 22 23 | 0 37 | 22 55 | 0 9 | 20 8 | 2 31 | 22 38 | 22 41 | 15 29 | | n.a. |
| T 30 | 2 41 | 14 0 | 4 58 | 11 40 | 2 6 | 8 6 | 1 31 | 3 47 | 0 52 | 23 17 | 0 13 | 23 52 | 0 18 | 22 23 | 0 37 | 22 55 | 0 9 | 20 8 | 2 31 | 22 39 | 22 41 | 15 27 | | n.a. |
| W31 | 3n 5 | 18s23 | 4s42 | 12n22 | 2n13 | 7s38 | 1s32 | 3s29 | 0s52 | 23s17 | 0n13 | 23n52 | 0n18 | 22n23 | 0n37 | 22n55 | 0s 9 | 20n 8 | 2s31 | 22s41 | 22s42 | 15n24 | | n.a. |

Julian Day Number = 1700663.5, Delta T = 03h05m44s
Ecliptic obliquity = 23°42'10, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°50'54, Lahiri = - 4°43'54 Julian Calendar 1 March 57 BCE == Greg. Calendar 28 Feb. 057 BCE

The year -56 astronomical counting style corresponds to year 057 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 57 BCE
# geocentric

## APRIL 57 BCE (-56) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 27 37 | 8♈38'37 | 19♏59 | 27♈56 | 15♓34 | 24♓ 3 | 22♐36 | 6♋14 | 22°R40 | 12♋57 | 13♊14 | 16°R17 | 16♑16 | 11♒39 | n.a. | T 1 |
| F 2 | 12 31 34 | 9°36'41 | 3♐17 | 29°22 | 16°47 | 24°48 | 22°38 | 6°16 | 22°D40 | 12°57 | 13°15 | 16♑11 | 16°12 | 11°46 | n.a. | F 2 |
| S 3 | 12 35 30 | 10°34'44 | 16°47 | 0♉44 | 18° 0 | 25°33 | 22°40 | 6°19 | 22♋40 | 12°57 | 13°16 | 16° 7 | 16° 9 | 11°52 | n.a. | S 3 |
| S 4 | 12 39 27 | 11°32'46 | 0♑28 | 2° 2 | 19°14 | 26°17 | 22°41 | 6°21 | 22°40 | 12°57 | 13°17 | 16° 5 | 16° 6 | 11°59 | n.a. | S 4 |
| M 5 | 12 43 24 | 12°30'46 | 14°22 | 3°16 | 20°27 | 27° 2 | 22°43 | 6°24 | 22°40 | 12°58 | 13°18 | 16° 5 | 16° 3 | 12° 6 | n.a. | M 5 |
| T 6 | 12 47 20 | 13°28'45 | 28°28 | 4°25 | 21°40 | 27°47 | 22°44 | 6°27 | 22°40 | 12°58 | 13°18 | 16° 5 | 16° 0 | 12°12 | n.a. | T 6 |
| W 7 | 12 51 17 | 14°26'42 | 12♒46 | 5°29 | 22°53 | 28°32 | 22°45 | 6°30 | 22°41 | 12°58 | 13°19 | 16° 3 | 15°56 | 12°19 | n.a. | W 7 |
| T 8 | 12 55 13 | 15°24'38 | 27°14 | 6°29 | 24° 6 | 29°16 | 22°46 | 6°33 | 22°41 | 12°59 | 13°20 | 16° 0 | 15°53 | 12°26 | n.a. | T 8 |
| F 9 | 12 59 10 | 16°22'32 | 11♓47 | 7°24 | 25°19 | 0♈ 1 | 22°47 | 6°36 | 22°41 | 12°59 | 13°21 | 15°53 | 15°50 | 12°32 | n.a. | F 9 |
| S 10 | 13 3 6 | 17°20'25 | 26°22 | 8°15 | 26°32 | 0°46 | 22°48 | 6°39 | 22°42 | 13° 0 | 13°22 | 15°44 | 15°47 | 12°39 | n.a. | S 10 |
| S 11 | 13 7 3 | 18°18'17 | 10♈50 | 9° 1 | 27°45 | 1°30 | 22°48 | 6°42 | 22°42 | 13° 0 | 13°23 | 15°33 | 15°44 | 12°46 | n.a. | S 11 |
| M12 | 13 10 59 | 19°16'07 | 25° 5 | 9°42 | 28°58 | 2°15 | 22°48 | 6°46 | 22°43 | 13° 1 | 13°24 | 15°21 | 15°41 | 12°52 | n.a. | M12 |
| T 13 | 13 14 56 | 20°13'55 | 9♉ 1 | 10°18 | 0♈12 | 2°59 | 22°R48 | 6°49 | 22°43 | 13° 1 | 13°25 | 15°10 | 15°37 | 12°59 | n.a. | T 13 |
| W14 | 13 18 53 | 21°11'42 | 22°35 | 10°49 | 1°25 | 3°43 | 22°48 | 6°53 | 22°44 | 13° 2 | 13°26 | 15° 0 | 15°34 | 13° 5 | n.a. | W14 |
| T 15 | 13 22 49 | 22° 9'27 | 5♊44 | 11°16 | 2°38 | 4°28 | 22°48 | 6°56 | 22°44 | 13° 2 | 13°27 | 14°53 | 15°31 | 13°12 | n.a. | T 15 |
| F 16 | 13 26 46 | 23° 7'11 | 18°29 | 11°37 | 3°51 | 5°12 | 22°47 | 7° 0 | 22°45 | 13° 3 | 13°28 | 14°48 | 15°28 | 13°19 | n.a. | F 16 |
| S 17 | 13 30 42 | 24° 4'53 | 0♋53 | 11°54 | 5° 4 | 5°56 | 22°46 | 7° 4 | 22°46 | 13° 4 | 13°29 | 14°46 | 15°25 | 13°25 | n.a. | S 17 |
| S 18 | 13 34 39 | 25° 2'33 | 13° 1 | 12° 5 | 6°17 | 6°40 | 22°45 | 7° 8 | 22°47 | 13° 4 | 13°30 | 14°D45 | 15°21 | 13°32 | n.a. | S 18 |
| M19 | 13 38 35 | 26° 0'12 | 24°58 | 12°12 | 7°31 | 7°24 | 22°44 | 7°12 | 22°48 | 13° 5 | 13°31 | 14°R45 | 15°18 | 13°39 | n.a. | M19 |
| T 20 | 13 42 32 | 26°57'49 | 6♌48 | 12°R13 | 8°44 | 8° 8 | 22°43 | 7°16 | 22°49 | 13° 6 | 13°32 | 14°45 | 15°15 | 13°45 | n.a. | T 20 |
| W21 | 13 46 28 | 27°55'24 | 18°37 | 12°10 | 9°57 | 8°52 | 22°41 | 7°20 | 22°49 | 13° 7 | 13°33 | 14°43 | 15°12 | 13°52 | n.a. | W21 |
| T 22 | 13 50 25 | 28°52'57 | 0♍30 | 12° 3 | 11°10 | 9°36 | 22°40 | 7°24 | 22°51 | 13° 8 | 13°34 | 14°39 | 15° 9 | 13°59 | n.a. | T 22 |
| F 23 | 13 54 22 | 29°50'30 | 12°32 | 11°51 | 12°23 | 10°20 | 22°38 | 7°29 | 22°52 | 13° 8 | 13°36 | 14°33 | 15° 6 | 14° 5 | n.a. | F 23 |
| S 24 | 13 58 18 | 0♎48'00 | 24°47 | 11°35 | 13°36 | 11° 4 | 22°36 | 7°33 | 22°53 | 13° 9 | 13°37 | 14°24 | 15° 2 | 14°12 | n.a. | S 24 |
| S 25 | 14 2 15 | 1°45'29 | 7♏16 | 11°15 | 14°50 | 11°47 | 22°33 | 7°38 | 22°54 | 13°10 | 13°38 | 14°14 | 14°59 | 14°19 | n.a. | S 25 |
| M26 | 14 6 11 | 2°42'57 | 20° 1 | 10°51 | 16° 3 | 12°31 | 22°31 | 7°42 | 22°55 | 13°11 | 13°39 | 14° 2 | 14°56 | 14°25 | n.a. | M26 |
| T 27 | 14 10 8 | 3°40'24 | 3♏ 3 | 10°25 | 17°16 | 13°15 | 22°28 | 7°47 | 22°56 | 13°12 | 13°40 | 13°50 | 14°53 | 14°32 | n.a. | T 27 |
| W28 | 14 14 4 | 4°37'50 | 16°19 | 9°56 | 18°29 | 13°58 | 22°26 | 7°52 | 22°58 | 13°13 | 13°42 | 13°40 | 14°50 | 14°39 | n.a. | W28 |
| T 29 | 14 18 1 | 5°35'14 | 29°49 | 9°25 | 19°42 | 14°42 | 22°23 | 7°56 | 22°59 | 13°14 | 13°43 | 13°31 | 14°47 | 14°45 | n.a. | T 29 |
| F 30 | 14 21 57 | 6♉32'38 | 13♐29 | 8♉53 | 20♈56 | 15♈25 | 22♐20 | 8♋ 1 | 23♋ 1 | 13♋15 | 13♊44 | 13♑25 | 14♑43 | 14♒52 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3n28 | 21s57 | 4s11 | 13n 2 | 2n20 | 7s10 | 1s32 | 3s10 | 0s51 | 23s17 | 0n12 | 23n52 | 0n19 | 22n23 | 0n37 | 22n55 | 0s 9 | 20n 8 | 2s31 | 22s42 | 22s42 | 15n21 | | n.a. |
| F 2 | 3 51 | 24 24 | 3 26 | 13 39 | 2 26 | 6 41 | 1 33 | 2 52 | 0 51 | 23 17 | 0 12 | 23 52 | 0 19 | 22 23 | 0 37 | 22 55 | 0 9 | 20 9 | 2 31 | 22 43 | 22 42 | 15 19 | | n.a. |
| S 3 | 4 14 | 25 30 | 2 28 | 14 13 | 2 32 | 6 13 | 1 33 | 2 34 | 0 50 | 23 18 | 0 12 | 23 52 | 0 19 | 22 23 | 0 37 | 22 55 | 0 9 | 20 9 | 2 31 | 22 43 | 22 43 | 15 16 | | n.a. |
| S 4 | 4 37 | 25 4 | 1 22 | 14 45 | 2 36 | 5 44 | 1 33 | 2 15 | 0 50 | 23 18 | 0 12 | 23 52 | 0 19 | 22 23 | 0 37 | 22 55 | 0 9 | 20 9 | 2 31 | 22 43 | 22 43 | 15 14 | | n.a. |
| M 5 | 5 0 | 23 4 | 0 9 | 15 14 | 2 40 | 5 15 | 1 33 | 1 57 | 0 50 | 23 18 | 0 12 | 23 51 | 0 19 | 22 23 | 0 37 | 22 55 | 0 9 | 20 9 | 2 31 | 22 43 | 22 44 | 15 11 | | n.a. |
| T 6 | 5 23 | 19 38 | 1n 5 | 15 41 | 2 43 | 4 46 | 1 34 | 1 39 | 0 49 | 23 18 | 0 12 | 23 51 | 0 19 | 22 23 | 0 37 | 22 55 | 0 9 | 20 9 | 2 31 | 22 43 | 22 44 | 15 8 | | n.a. |
| W 7 | 5 45 | 15 0 | 2 16 | 16 5 | 2 45 | 4 17 | 1 34 | 1 20 | 0 49 | 23 18 | 0 12 | 23 51 | 0 19 | 22 23 | 0 37 | 22 55 | 0 9 | 20 10 | 2 30 | 22 43 | 22 44 | 15 6 | | n.a. |
| T 8 | 6 8 | 9 27 | 3 19 | 16 26 | 2 46 | 3 48 | 1 34 | 1 2 | 0 48 | 23 18 | 0 12 | 23 51 | 0 19 | 22 23 | 0 37 | 22 55 | 0 9 | 20 10 | 2 30 | 22 44 | 22 45 | 15 3 | | n.a. |
| F 9 | 6 30 | 3 23 | 4 10 | 16 44 | 2 46 | 3 18 | 1 33 | 0 43 | 0 48 | 23 19 | 0 12 | 23 51 | 0 19 | 22 23 | 0 37 | 22 55 | 0 9 | 20 10 | 2 30 | 22 45 | 22 45 | 15 0 | | n.a. |
| S 10 | 6 53 | 2n52 | 4 44 | 17 0 | 2 45 | 2 49 | 1 33 | 0 25 | 0 47 | 23 19 | 0 12 | 23 51 | 0 19 | 22 22 | 0 37 | 22 55 | 0 9 | 20 10 | 2 30 | 22 46 | 22 45 | 14 58 | | n.a. |
| S 11 | 7 15 | 8 55 | 4 59 | 17 13 | 2 43 | 2 19 | 1 33 | 0 7 | 0 47 | 23 19 | 0 11 | 23 51 | 0 19 | 22 22 | 0 37 | 22 55 | 0 9 | 20 10 | 2 30 | 22 47 | 22 46 | 14 55 | | n.a. |
| M12 | 7 37 | 14 24 | 4 56 | 17 24 | 2 40 | 1 50 | 1 33 | 0n11 | 0 47 | 23 19 | 0 11 | 23 51 | 0 19 | 22 22 | 0 37 | 22 55 | 0 9 | 20 11 | 2 30 | 22 48 | 22 46 | 14 53 | | n.a. |
| T 13 | 7 59 | 19 0 | 4 35 | 17 32 | 2 35 | 1 20 | 1 32 | 0 30 | 0 46 | 23 19 | 0 11 | 23 51 | 0 19 | 22 22 | 0 37 | 22 55 | 0 9 | 20 11 | 2 30 | 22 50 | 22 47 | 14 50 | | n.a. |
| W14 | 8 21 | 22 28 | 3 59 | 17 37 | 2 30 | 0 50 | 1 32 | 0 48 | 0 46 | 23 19 | 0 11 | 23 51 | 0 19 | 22 22 | 0 37 | 22 55 | 0 9 | 20 11 | 2 30 | 22 51 | 22 47 | 14 47 | | n.a. |
| T 15 | 8 43 | 24 38 | 3 11 | 17 39 | 2 24 | 0 20 | 1 32 | 1 6 | 0 45 | 23 19 | 0 11 | 23 50 | 0 19 | 22 22 | 0 37 | 22 55 | 0 9 | 20 11 | 2 30 | 22 52 | 22 47 | 14 45 | | n.a. |
| F 16 | 9 5 | 25 26 | 2 14 | 17 39 | 2 17 | 0n10 | 1 31 | 1 24 | 0 45 | 23 19 | 0 11 | 23 50 | 0 19 | 22 22 | 0 37 | 22 55 | 0 9 | 20 12 | 2 30 | 22 52 | 22 48 | 14 42 | | n.a. |
| S 17 | 9 26 | 24 55 | 1 13 | 17 36 | 2 8 | 0 39 | 1 30 | 1 42 | 0 44 | 23 19 | 0 11 | 23 50 | 0 20 | 22 22 | 0 37 | 22 55 | 0 9 | 20 12 | 2 29 | 22 52 | 22 48 | 14 39 | | n.a. |
| S 18 | 9 48 | 23 13 | 0 9 | 17 30 | 1 59 | 1 9 | 1 30 | 2 0 | 0 44 | 23 19 | 0 11 | 23 50 | 0 20 | 22 21 | 0 37 | 22 54 | 0 9 | 20 12 | 2 29 | 22 53 | 22 48 | 14 37 | | n.a. |
| M19 | 10 9 | 20 29 | 0s54 | 17 22 | 1 48 | 1 39 | 1 29 | 2 19 | 0 43 | 23 19 | 0 11 | 23 50 | 0 20 | 22 21 | 0 37 | 22 54 | 0 9 | 20 12 | 2 29 | 22 53 | 22 49 | 14 34 | | n.a. |
| T 20 | 10 30 | 16 56 | 1 54 | 17 12 | 1 36 | 2 9 | 1 28 | 2 37 | 0 43 | 23 20 | 0 10 | 23 50 | 0 20 | 22 21 | 0 37 | 22 54 | 0 9 | 20 13 | 2 29 | 22 53 | 22 49 | 14 31 | | n.a. |
| W21 | 10 51 | 12 44 | 2 49 | 16 59 | 1 24 | 2 39 | 1 27 | 2 54 | 0 42 | 23 20 | 0 10 | 23 50 | 0 20 | 22 21 | 0 37 | 22 54 | 0 9 | 20 13 | 2 29 | 22 53 | 22 50 | 14 29 | | n.a. |
| T 22 | 11 12 | 8 2 | 3 38 | 16 44 | 1 10 | 3 9 | 1 26 | 3 12 | 0 42 | 23 20 | 0 10 | 23 49 | 0 20 | 22 21 | 0 37 | 22 54 | 0 9 | 20 13 | 2 29 | 22 53 | 22 50 | 14 26 | | n.a. |
| F 23 | 11 32 | 2 59 | 4 17 | 16 26 | 0 56 | 3 38 | 1 25 | 3 30 | 0 41 | 23 20 | 0 10 | 23 49 | 0 20 | 22 20 | 0 37 | 22 54 | 0 9 | 20 13 | 2 29 | 22 54 | 22 50 | 14 23 | | n.a. |
| S 24 | 11 53 | 2s15 | 4 45 | 16 7 | 0 41 | 4 8 | 1 24 | 3 48 | 0 41 | 23 20 | 0 10 | 23 49 | 0 20 | 22 20 | 0 36 | 22 54 | 0 9 | 20 13 | 2 29 | 22 55 | 22 51 | 14 21 | | n.a. |
| S 25 | 12 13 | 7 29 | 5 0 | 15 46 | 0 25 | 4 38 | 1 23 | 4 6 | 0 40 | 23 20 | 0 10 | 23 49 | 0 20 | 22 20 | 0 36 | 22 54 | 0 9 | 20 14 | 2 29 | 22 56 | 22 51 | 14 18 | | n.a. |
| M26 | 12 33 | 12 32 | 5 0 | 15 23 | 0 9 | 5 7 | 1 22 | 4 23 | 0 40 | 23 20 | 0 10 | 23 49 | 0 20 | 22 20 | 0 36 | 22 54 | 0 9 | 20 14 | 2 29 | 22 57 | 22 51 | 14 15 | | n.a. |
| T 27 | 12 53 | 17 7 | 4 45 | 14 59 | 0s 8 | 5 37 | 1 21 | 4 41 | 0 39 | 23 20 | 0 10 | 23 48 | 0 20 | 22 20 | 0 36 | 22 54 | 0 9 | 20 14 | 2 28 | 22 58 | 22 52 | 14 13 | | n.a. |
| W28 | 13 12 | 20 58 | 4 15 | 14 33 | 0 25 | 6 6 | 1 19 | 4 59 | 0 39 | 23 19 | 0 10 | 23 48 | 0 20 | 22 19 | 0 36 | 22 54 | 0 9 | 20 14 | 2 28 | 23 0 | 22 52 | 14 10 | | n.a. |
| T 29 | 13 32 | 23 45 | 3 30 | 14 7 | 0 42 | 6 35 | 1 18 | 5 16 | 0 38 | 23 19 | 0 9 | 23 48 | 0 20 | 22 19 | 0 36 | 22 54 | 0 8 | 20 15 | 2 28 | 23 0 | 22 52 | 14 7 | | n.a. |
| F 30 | 13n51 | 25s11 | 2s32 | 13n40 | 1s 0 | 7n 4 | 1s17 | 5n34 | 0s38 | 23s19 | 0n 9 | 23n48 | 0n20 | 22n19 | 0n36 | 22n54 | 0s 8 | 20n15 | 2s28 | 23s 1 | 22s53 | 14n 5 | | n.a. |

Julian Day Number = 1700694.5, Delta T = 03h05m43s
Ecliptic obliquity = 23°42'10, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°50'50, Lahiri = - 4°43'49 Julian Calendar 1 Apr. 57 BCE == Greg. Calendar 30 March 057 BCE

The year -56 astronomical counting style corresponds to year 057 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 57 BCE
# geocentric

## MAY 57 BCE (-56) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 14 25 54 | 7♉30'01 | 27♐18 | 8°R19 | 22♈ 9 | 16♈ 9 | 22°R16 | 8♋ 6 | 23♋ 2 | 13♋17 | 13♊45 | 13°R22 | 14♑40 | 14♒59 | n.a. | S 1 |
| S 2 | 14 29 51 | 8°27'23 | 11♑14 | 7♉46 | 23°22 | 16°52 | 22♐13 | 8°11 | 23° 4 | 13°18 | 13°47 | 13°D21 | 14°37 | 15° 5 | n.a. | S 2 |
| M 3 | 14 33 47 | 9°24'44 | 25°16 | 7°12 | 24°35 | 17°35 | 22° 9 | 8°16 | 23° 5 | 13°19 | 13°48 | 13♑22 | 14°34 | 15°12 | n.a. | M 3 |
| T 4 | 14 37 44 | 10°22'05 | 9♒22 | 6°39 | 25°49 | 18°19 | 22° 5 | 8°22 | 23° 7 | 13°20 | 13°49 | 13°R22 | 14°31 | 15°19 | n.a. | T 4 |
| W 5 | 14 41 40 | 11°19'25 | 23°32 | 6° 8 | 27° 2 | 19° 2 | 22° 1 | 8°27 | 23° 8 | 13°21 | 13°50 | 13°21 | 14°27 | 15°25 | n.a. | W 5 |
| T 6 | 14 45 37 | 12°16'44 | 7♓44 | 5°38 | 28°15 | 19°45 | 21°57 | 8°32 | 23°10 | 13°22 | 13°52 | 13°19 | 14°24 | 15°32 | n.a. | T 6 |
| F 7 | 14 49 33 | 13°14'03 | 21°57 | 5°11 | 29°28 | 20°28 | 21°53 | 8°38 | 23°12 | 13°24 | 13°53 | 13°14 | 14°21 | 15°39 | n.a. | F 7 |
| S 8 | 14 53 30 | 14°11'21 | 6♈ 6 | 4°47 | 0♉42 | 21°11 | 21°48 | 8°43 | 23°14 | 13°25 | 13°54 | 13° 7 | 14°18 | 15°45 | n.a. | S 8 |
| S 9 | 14 57 26 | 15° 8'38 | 20° 7 | 4°26 | 1°55 | 21°54 | 21°44 | 8°49 | 23°16 | 13°26 | 13°56 | 12°59 | 14°15 | 15°52 | n.a. | S 9 |
| M10 | 15 1 23 | 16° 5'55 | 3♉58 | 4° 8 | 3° 8 | 22°37 | 21°39 | 8°54 | 23°17 | 13°28 | 13°57 | 12°49 | 14°12 | 15°59 | n.a. | M10 |
| T 11 | 15 5 20 | 17° 3'11 | 17°33 | 3°54 | 4°22 | 23°20 | 21°34 | 9° 0 | 23°19 | 13°29 | 13°58 | 12°40 | 14° 8 | 16° 5 | n.a. | T 11 |
| W12 | 15 9 16 | 18° 0'27 | 0♊50 | 3°44 | 5°35 | 24° 2 | 21°29 | 9° 6 | 23°21 | 13°31 | 14° 0 | 12°33 | 14° 5 | 16°12 | n.a. | W12 |
| T 13 | 15 13 13 | 18°57'41 | 13°48 | 3°39 | 6°48 | 24°45 | 21°23 | 9°11 | 23°23 | 13°32 | 14° 1 | 12°27 | 14° 2 | 16°19 | n.a. | T 13 |
| F 14 | 15 17 9 | 19°54'55 | 26°27 | 3°D38 | 8° 2 | 25°28 | 21°18 | 9°17 | 23°26 | 13°33 | 14° 3 | 12°24 | 13°59 | 16°25 | n.a. | F 14 |
| S 15 | 15 21 6 | 20°52'09 | 8♋48 | 3°41 | 9°15 | 26°11 | 21°12 | 9°23 | 23°28 | 13°35 | 14° 4 | 12°D22 | 13°56 | 16°32 | n.a. | S 15 |
| S 16 | 15 25 2 | 21°49'21 | 20°55 | 3°49 | 10°28 | 26°53 | 21° 7 | 9°29 | 23°30 | 13°36 | 14° 6 | 12°22 | 13°53 | 16°39 | n.a. | S 16 |
| M17 | 15 28 59 | 22°46'33 | 2♌51 | 4° 1 | 11°42 | 27°36 | 21° 1 | 9°35 | 23°32 | 13°38 | 14° 7 | 12°24 | 13°49 | 16°45 | n.a. | M17 |
| T 18 | 15 32 55 | 23°43'43 | 14°42 | 4°18 | 12°55 | 28°18 | 20°55 | 9°41 | 23°34 | 13°39 | 14° 8 | 12°25 | 13°46 | 16°52 | n.a. | T 18 |
| W19 | 15 36 52 | 24°40'53 | 26°32 | 4°40 | 14° 9 | 29° 0 | 20°49 | 9°47 | 23°37 | 13°41 | 14°10 | 12°R25 | 13°43 | 16°59 | n.a. | W19 |
| T 20 | 15 40 49 | 25°38'03 | 8♍27 | 5° 6 | 15°22 | 29°43 | 20°43 | 9°54 | 23°39 | 13°43 | 14°11 | 12°24 | 13°40 | 17° 5 | n.a. | T 20 |
| F 21 | 15 44 45 | 26°35'11 | 20°31 | 5°37 | 16°35 | 0♉25 | 20°36 | 10° 0 | 23°41 | 13°44 | 14°13 | 12°21 | 13°37 | 17°12 | n.a. | F 21 |
| S 22 | 15 48 42 | 27°32'19 | 2♎50 | 6°12 | 17°49 | 1° 7 | 20°30 | 10° 6 | 23°44 | 13°46 | 14°14 | 12°17 | 13°33 | 17°19 | n.a. | S 22 |
| S 23 | 15 52 38 | 28°29'26 | 15°25 | 6°51 | 19° 2 | 1°49 | 20°23 | 10°13 | 23°46 | 13°48 | 14°16 | 12°11 | 13°30 | 17°25 | n.a. | S 23 |
| M24 | 15 56 35 | 29°26'33 | 28°21 | 7°35 | 20°16 | 2°31 | 20°17 | 10°19 | 23°49 | 13°49 | 14°17 | 12° 4 | 13°27 | 17°32 | n.a. | M24 |
| T 25 | 16 0 31 | 0♊23'39 | 11♏36 | 8°23 | 21°29 | 3°13 | 20°10 | 10°25 | 23°51 | 13°51 | 14°19 | 11°57 | 13°24 | 17°39 | n.a. | T 25 |
| W26 | 16 4 28 | 1°20'46 | 25°11 | 9°15 | 22°43 | 3°55 | 20° 3 | 10°32 | 23°54 | 13°53 | 14°20 | 11°51 | 13°21 | 17°45 | n.a. | W26 |
| T 27 | 16 8 24 | 2°17'52 | 9♐ 3 | 10°11 | 23°56 | 4°37 | 19°56 | 10°39 | 23°56 | 13°54 | 14°22 | 11°46 | 13°18 | 17°52 | n.a. | T 27 |
| F 28 | 16 12 21 | 3°14'57 | 23° 8 | 11°11 | 25°10 | 5°19 | 19°49 | 10°45 | 23°59 | 13°56 | 14°23 | 11°43 | 13°14 | 17°59 | n.a. | F 28 |
| S 29 | 16 16 18 | 4°12'03 | 7♑23 | 12°15 | 26°23 | 6° 1 | 19°42 | 10°52 | 24° 2 | 13°58 | 14°25 | 11°D42 | 13°11 | 18° 5 | n.a. | S 29 |
| S 30 | 16 20 14 | 5° 9'09 | 21°42 | 13°23 | 27°37 | 6°43 | 19°35 | 10°59 | 24° 4 | 14° 0 | 14°26 | 11°42 | 13° 8 | 18°12 | n.a. | S 30 |
| M31 | 16 24 11 | 6♊ 6'15 | 6♒ 2 | 14♉35 | 28♉50 | 7♉24 | 19♐28 | 11♋ 5 | 24♋ 7 | 14♋ 2 | 14♊28 | 11♑43 | 13♑ 5 | 18♒19 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 14n10 | 25s 5 | 1s24 | 13n13 | 1s17 | 7n33 | 1s15 | 5n51 | 0s37 | 23s19 | 0n 9 | 23n47 | 0n20 | 22n18 | 0n36 | 22n54 | 0s 8 | 20n15 | 2s28 | 23s 1 | 22s53 | 14n 2 | | n.a. |
| S 2 | 14 29 | 23 25 | 0 11 | 12 47 | 1 34 | 8 2 | 1 14 | 6 8 | 0 36 | 23 19 | 0 9 | 23 47 | 0 20 | 22 18 | 0 36 | 22 53 | 0 8 | 20 15 | 2 28 | 23 1 | 22 53 | 13 59 | | n.a. |
| M 3 | 14 47 | 20 17 | 1n 3 | 12 20 | 1 50 | 8 31 | 1 12 | 6 25 | 0 36 | 23 19 | 0 9 | 23 47 | 0 20 | 22 18 | 0 36 | 22 53 | 0 8 | 20 16 | 2 28 | 23 1 | 22 54 | 13 57 | | n.a. |
| T 4 | 15 6 | 15 57 | 2 14 | 11 55 | 2 5 | 8 59 | 1 11 | 6 43 | 0 35 | 23 19 | 0 9 | 23 47 | 0 21 | 22 18 | 0 36 | 22 53 | 0 8 | 20 16 | 2 28 | 23 1 | 22 54 | 13 54 | | n.a. |
| W 5 | 15 24 | 10 43 | 3 17 | 11 30 | 2 20 | 9 27 | 1 9 | 7 0 | 0 35 | 23 19 | 0 9 | 23 46 | 0 21 | 22 17 | 0 36 | 22 53 | 0 8 | 20 16 | 2 28 | 23 1 | 22 55 | 13 51 | | n.a. |
| T 6 | 15 41 | 4 55 | 4 8 | 11 7 | 2 34 | 9 55 | 1 7 | 7 17 | 0 34 | 23 19 | 0 9 | 23 46 | 0 21 | 22 17 | 0 36 | 22 53 | 0 8 | 20 16 | 2 28 | 23 2 | 22 55 | 13 49 | | n.a. |
| F 7 | 15 59 | 1n 7 | 4 44 | 10 46 | 2 48 | 10 23 | 1 6 | 7 34 | 0 34 | 23 19 | 0 8 | 23 46 | 0 21 | 22 17 | 0 36 | 22 53 | 0 8 | 20 17 | 2 28 | 23 2 | 22 55 | 13 46 | | n.a. |
| S 8 | 16 16 | 7 4 | 5 2 | 10 26 | 3 0 | 10 51 | 1 4 | 7 50 | 0 33 | 23 18 | 0 8 | 23 45 | 0 21 | 22 16 | 0 36 | 22 53 | 0 8 | 20 17 | 2 27 | 23 3 | 22 56 | 13 43 | | n.a. |
| S 9 | 16 33 | 12 36 | 5 2 | 10 9 | 3 11 | 11 18 | 1 2 | 8 7 | 0 33 | 23 18 | 0 8 | 23 45 | 0 21 | 22 16 | 0 36 | 22 53 | 0 8 | 20 17 | 2 27 | 23 4 | 22 56 | 13 41 | | n.a. |
| M10 | 16 50 | 17 26 | 4 44 | 9 54 | 3 20 | 11 45 | 1 0 | 8 24 | 0 32 | 23 18 | 0 8 | 23 45 | 0 21 | 22 16 | 0 36 | 22 53 | 0 8 | 20 17 | 2 27 | 23 5 | 22 56 | 13 38 | | n.a. |
| T 11 | 17 7 | 21 15 | 4 11 | 9 41 | 3 29 | 12 12 | 0 58 | 8 40 | 0 31 | 23 18 | 0 8 | 23 45 | 0 21 | 22 15 | 0 36 | 22 52 | 0 8 | 20 18 | 2 27 | 23 5 | 22 57 | 13 35 | | n.a. |
| W12 | 17 23 | 23 52 | 3 24 | 9 31 | 3 36 | 12 39 | 0 56 | 8 57 | 0 31 | 23 18 | 0 8 | 23 44 | 0 21 | 22 15 | 0 36 | 22 52 | 0 8 | 20 18 | 2 27 | 23 6 | 22 57 | 13 32 | | n.a. |
| T 13 | 17 39 | 25 9 | 2 27 | 9 23 | 3 42 | 13 5 | 0 54 | 9 13 | 0 30 | 23 18 | 0 8 | 23 44 | 0 21 | 22 15 | 0 36 | 22 52 | 0 8 | 20 18 | 2 27 | 23 7 | 22 57 | 13 30 | | n.a. |
| F 14 | 17 55 | 25 4 | 1 25 | 9 18 | 3 47 | 13 31 | 0 52 | 9 30 | 0 30 | 23 17 | 0 8 | 23 44 | 0 21 | 22 14 | 0 36 | 22 52 | 0 8 | 20 18 | 2 27 | 23 7 | 22 58 | 13 27 | | n.a. |
| S 15 | 18 10 | 23 44 | 0 19 | 9 16 | 3 51 | 13 56 | 0 50 | 9 46 | 0 29 | 23 17 | 0 7 | 23 43 | 0 21 | 22 14 | 0 36 | 22 52 | 0 8 | 20 19 | 2 27 | 23 7 | 22 58 | 13 24 | | n.a. |
| S 16 | 18 25 | 21 18 | 0s46 | 9 16 | 3 54 | 14 22 | 0 48 | 10 2 | 0 29 | 23 17 | 0 7 | 23 43 | 0 21 | 22 13 | 0 36 | 22 52 | 0 8 | 20 19 | 2 27 | 23 7 | 22 58 | 13 22 | | n.a. |
| M17 | 18 40 | 17 59 | 1 48 | 9 19 | 3 55 | 14 47 | 0 46 | 10 18 | 0 28 | 23 17 | 0 7 | 23 42 | 0 21 | 22 13 | 0 36 | 22 52 | 0 8 | 20 19 | 2 27 | 23 7 | 22 59 | 13 19 | | n.a. |
| T 18 | 18 55 | 13 58 | 2 45 | 9 24 | 3 56 | 15 11 | 0 44 | 10 34 | 0 27 | 23 16 | 0 7 | 23 42 | 0 21 | 22 13 | 0 36 | 22 51 | 0 8 | 20 19 | 2 27 | 23 7 | 22 59 | 13 16 | | n.a. |
| W19 | 19 9 | 9 26 | 3 36 | 9 32 | 3 55 | 15 35 | 0 42 | 10 49 | 0 27 | 23 16 | 0 7 | 23 42 | 0 21 | 22 12 | 0 36 | 22 51 | 0 8 | 20 20 | 2 27 | 23 7 | 22 59 | 13 13 | | n.a. |
| T 20 | 19 23 | 4 32 | 4 17 | 9 42 | 3 53 | 15 59 | 0 40 | 11 5 | 0 26 | 23 16 | 0 7 | 23 41 | 0 22 | 22 12 | 0 36 | 22 51 | 0 8 | 20 20 | 2 26 | 23 7 | 23 0 | 13 11 | | n.a. |
| F 21 | 19 36 | 0s36 | 4 47 | 9 55 | 3 50 | 16 23 | 0 38 | 11 21 | 0 26 | 23 15 | 0 7 | 23 41 | 0 22 | 22 11 | 0 36 | 22 51 | 0 8 | 20 20 | 2 26 | 23 7 | 23 0 | 13 8 | | n.a. |
| S 22 | 19 50 | 5 47 | 5 5 | 10 10 | 3 47 | 16 46 | 0 35 | 11 36 | 0 25 | 23 15 | 0 6 | 23 40 | 0 22 | 22 11 | 0 36 | 22 51 | 0 8 | 20 20 | 2 26 | 23 8 | 23 0 | 13 5 | | n.a. |
| S 23 | 20 3 | 10 52 | 5 8 | 10 27 | 3 42 | 17 8 | 0 33 | 11 51 | 0 24 | 23 15 | 0 6 | 23 40 | 0 22 | 22 10 | 0 36 | 22 51 | 0 8 | 20 21 | 2 26 | 23 8 | 23 1 | 13 3 | | n.a. |
| M24 | 20 15 | 15 37 | 4 57 | 10 46 | 3 37 | 17 31 | 0 31 | 12 7 | 0 24 | 23 14 | 0 6 | 23 40 | 0 22 | 22 10 | 0 36 | 22 51 | 0 8 | 20 21 | 2 26 | 23 9 | 23 1 | 13 0 | | n.a. |
| T 25 | 20 27 | 19 44 | 4 29 | 11 7 | 3 31 | 17 52 | 0 29 | 12 22 | 0 23 | 23 14 | 0 6 | 23 39 | 0 22 | 22 9 | 0 36 | 22 50 | 0 8 | 20 21 | 2 26 | 23 10 | 23 1 | 12 57 | | n.a. |
| W26 | 20 39 | 22 55 | 3 46 | 11 30 | 3 24 | 18 14 | 0 26 | 12 37 | 0 22 | 23 14 | 0 6 | 23 39 | 0 22 | 22 9 | 0 36 | 22 50 | 0 8 | 20 21 | 2 26 | 23 10 | 23 1 | 12 54 | | n.a. |
| T 27 | 20 51 | 24 49 | 2 48 | 11 55 | 3 17 | 18 35 | 0 24 | 12 52 | 0 22 | 23 13 | 0 6 | 23 38 | 0 22 | 22 8 | 0 36 | 22 50 | 0 8 | 20 21 | 2 26 | 23 11 | 23 2 | 12 52 | | n.a. |
| F 28 | 21 2 | 25 10 | 1 39 | 12 21 | 3 9 | 18 55 | 0 22 | 13 6 | 0 21 | 23 13 | 0 6 | 23 38 | 0 22 | 22 8 | 0 36 | 22 50 | 0 8 | 20 22 | 2 26 | 23 11 | 23 2 | 12 49 | | n.a. |
| S 29 | 21 13 | 23 53 | 0 23 | 12 49 | 3 0 | 19 15 | 0 19 | 13 21 | 0 21 | 23 13 | 0 5 | 23 37 | 0 22 | 22 8 | 0 36 | 22 50 | 0 8 | 20 22 | 2 26 | 23 11 | 23 2 | 12 46 | | n.a. |
| S 30 | 21 24 | 21 2 | 0n54 | 13 19 | 2 51 | 19 34 | 0 17 | 13 35 | 0 20 | 23 12 | 0 5 | 23 37 | 0 22 | 22 7 | 0 36 | 22 49 | 0 8 | 20 22 | 2 26 | 23 11 | 23 3 | 12 43 | | n.a. |
| M31 | 21n34 | 16s53 | 2n 9 | 13n50 | 2s41 | 19n53 | 0s14 | 13n50 | 0s19 | 23s12 | 0n 5 | 23n36 | 0n22 | 22n 7 | 0n36 | 22n49 | 0s 8 | 20n22 | 2s26 | 23s11 | 23s 3 | 12n41 | | n.a. |

Julian Day Number = 1700724.5, Delta T = 03h05m43s
Ecliptic obliquity = 23°42'09, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°50'46, Lahiri = - 4°43'45 Julian Calendar 1 May 57 BCE == Greg. Calendar 29 Apr. 057 BCE

The year -56 astronomical counting style corresponds to year 057 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 57 BCE
# geocentric

## JUNE 57 BCE (-56) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 28 7 | 7♊ 3'21 | 20♒20 | 15♉51 | 0♊ 4 | 8♉ 6 | 19°R21 | 11♋12 | 24♋10 | 14♋ 3 | 14♊29 | 11♑44 | 13♑ 2 | 18♌26 | n.a. | T 1 |
| W 2 | 16 32 4 | 8° 0'27 | 4♓34 | 17°10 | 1°17 | 8°48 | 19♐13 | 11°19 | 24°13 | 14° 5 | 14°31 | 11°R45 | 12°59 | 18°32 | n.a. | W 2 |
| T 3 | 16 36 0 | 8°57'34 | 18°40 | 18°33 | 2°31 | 9°29 | 19° 6 | 11°26 | 24°16 | 14° 7 | 14°32 | 11°45 | 12°55 | 18°39 | n.a. | T 3 |
| F 4 | 16 39 57 | 9°54'40 | 2♈39 | 20° 0 | 3°44 | 10°11 | 18°58 | 11°33 | 24°19 | 14° 9 | 14°34 | 11°43 | 12°52 | 18°46 | n.a. | F 4 |
| S 5 | 16 43 54 | 10°51'48 | 16°27 | 21°31 | 4°58 | 10°52 | 18°51 | 11°40 | 24°21 | 14°11 | 14°35 | 11°40 | 12°49 | 18°52 | n.a. | S 5 |
| S 6 | 16 47 50 | 11°48'55 | 0♉ 4 | 23° 5 | 6°12 | 11°33 | 18°43 | 11°47 | 24°24 | 14°13 | 14°37 | 11°36 | 12°46 | 18°59 | n.a. | S 6 |
| M 7 | 16 51 47 | 12°46'03 | 13°29 | 24°42 | 7°25 | 12°15 | 18°35 | 11°54 | 24°27 | 14°15 | 14°38 | 11°32 | 12°43 | 19° 6 | n.a. | M 7 |
| T 8 | 16 55 43 | 13°43'12 | 26°39 | 26°23 | 8°39 | 12°56 | 18°28 | 12° 1 | 24°30 | 14°17 | 14°40 | 11°27 | 12°39 | 19°12 | n.a. | T 8 |
| W 9 | 16 59 40 | 14°40'20 | 9♊35 | 28° 8 | 9°53 | 13°37 | 18°20 | 12° 8 | 24°33 | 14°19 | 14°41 | 11°24 | 12°36 | 19°19 | n.a. | W 9 |
| T 10 | 17 3 36 | 15°37'29 | 22°16 | 29°55 | 11° 6 | 14°18 | 18°12 | 12°15 | 24°37 | 14°21 | 14°43 | 11°21 | 12°33 | 19°26 | n.a. | T 10 |
| F 11 | 17 7 33 | 16°34'39 | 4♋42 | 1♊45 | 12°20 | 14°59 | 18° 5 | 12°22 | 24°40 | 14°23 | 14°44 | 11°20 | 12°30 | 19°32 | n.a. | F 11 |
| S 12 | 17 11 29 | 17°31'48 | 16°55 | 3°39 | 13°34 | 15°40 | 17°57 | 12°29 | 24°43 | 14°25 | 14°46 | 11°D20 | 12°27 | 19°39 | n.a. | S 12 |
| S 13 | 17 15 26 | 18°28'58 | 28°58 | 5°35 | 14°48 | 16°21 | 17°49 | 12°37 | 24°46 | 14°27 | 14°47 | 11°21 | 12°24 | 19°46 | n.a. | S 13 |
| M14 | 17 19 23 | 19°26'07 | 10♌52 | 7°33 | 16° 1 | 17° 2 | 17°42 | 12°44 | 24°49 | 14°29 | 14°49 | 11°22 | 12°20 | 19°52 | n.a. | M14 |
| T 15 | 17 23 19 | 20°23'17 | 22°42 | 9°34 | 17°15 | 17°43 | 17°34 | 12°51 | 24°52 | 14°31 | 14°50 | 11°24 | 12°17 | 19°59 | n.a. | T 15 |
| W16 | 17 27 16 | 21°20'28 | 4♍32 | 11°36 | 18°29 | 18°24 | 17°26 | 12°59 | 24°56 | 14°33 | 14°52 | 11°25 | 12°14 | 20° 6 | n.a. | W16 |
| T 17 | 17 31 12 | 22°17'38 | 16°27 | 13°40 | 19°43 | 19° 4 | 17°18 | 13° 6 | 24°59 | 14°35 | 14°54 | 11°26 | 12°11 | 20°12 | n.a. | T 17 |
| F 18 | 17 35 9 | 23°14'48 | 28°31 | 15°46 | 20°56 | 19°45 | 17°11 | 13°13 | 25° 2 | 14°37 | 14°55 | 11°R26 | 12° 8 | 20°19 | n.a. | F 18 |
| S 19 | 17 39 5 | 24°11'59 | 10♎49 | 17°53 | 22°10 | 20°26 | 17° 3 | 13°21 | 25° 5 | 14°39 | 14°57 | 11°25 | 12° 5 | 20°26 | n.a. | S 19 |
| S 20 | 17 43 2 | 25° 9'10 | 23°25 | 20° 0 | 23°24 | 21° 6 | 16°56 | 13°28 | 25° 9 | 14°41 | 14°58 | 11°24 | 12° 1 | 20°32 | n.a. | S 20 |
| M21 | 17 46 58 | 26° 6'22 | 6♏23 | 22° 8 | 24°38 | 21°47 | 16°48 | 13°36 | 25°12 | 14°44 | 15° 0 | 11°22 | 11°58 | 20°39 | n.a. | M21 |
| T 22 | 17 50 55 | 27° 3'34 | 19°45 | 24°15 | 25°52 | 22°27 | 16°41 | 13°43 | 25°15 | 14°46 | 15° 1 | 11°20 | 11°55 | 20°46 | n.a. | T 22 |
| W23 | 17 54 52 | 28° 0'47 | 3♐30 | 26°23 | 27° 6 | 23° 7 | 16°33 | 13°51 | 25°19 | 14°48 | 15° 3 | 11°18 | 11°52 | 20°52 | n.a. | W23 |
| T 24 | 17 58 48 | 28°58'00 | 17°37 | 28°30 | 28°20 | 23°48 | 16°26 | 13°58 | 25°22 | 14°50 | 15° 4 | 11°17 | 11°49 | 20°59 | n.a. | T 24 |
| F 25 | 18 2 45 | 29°55'14 | 2♑ 3 | 0♋37 | 29°33 | 24°28 | 16°18 | 14° 6 | 25°26 | 14°52 | 15° 6 | 11°16 | 11°45 | 21° 6 | n.a. | F 25 |
| S 26 | 18 6 41 | 0♋52'29 | 16°41 | 2°43 | 0♋47 | 25° 8 | 16°11 | 14°13 | 25°29 | 14°54 | 15° 7 | 11°D16 | 11°42 | 21°12 | n.a. | S 26 |
| S 27 | 18 10 38 | 1°49'44 | 1♒26 | 4°48 | 2° 1 | 25°48 | 16° 4 | 14°21 | 25°33 | 14°57 | 15° 8 | 11°17 | 11°39 | 21°19 | n.a. | S 27 |
| M28 | 18 14 34 | 2°47'01 | 16°11 | 6°51 | 3°15 | 26°28 | 15°57 | 14°28 | 25°36 | 14°59 | 15°10 | 11°17 | 11°36 | 21°26 | n.a. | M28 |
| T 29 | 18 18 31 | 3°44'18 | 0♓49 | 8°54 | 4°29 | 27° 8 | 15°50 | 14°36 | 25°40 | 15° 1 | 15°11 | 11°18 | 11°33 | 21°32 | n.a. | T 29 |
| W30 | 18 22 28 | 4♋41'37 | 15♓16 | 10♋55 | 5♋43 | 27♉48 | 15♐43 | 14♋43 | 25♋43 | 15♋ 3 | 15♊13 | 11♑19 | 11♑30 | 21♌39 | n.a. | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21n44 | 11s47 | 3n15 | 14n21 | 2s31 | 20n11 | 0s12 | 14n 4 | 0s19 | 23s11 | 0n 5 | 23n36 | 0n22 | 22n 6 | 0n36 | 22n49 | 0s 8 | 20n23 | 2s26 | 23s11 | 23s 3 | 12n38 | | n.a. |
| W 2 | 21 53 | 6 5 | 4 9 | 14 54 | 2 20 | 20 29 | 0 10 | 14 18 | 0 18 | 23 11 | 0 5 | 23 35 | 0 22 | 22 5 | 0 36 | 22 49 | 0 8 | 20 23 | 2 26 | 23 11 | 23 4 | 12 35 | | n.a. |
| T 3 | 22 2 | 0 7 | 4 48 | 15 28 | 2 9 | 20 46 | 0 7 | 14 32 | 0 17 | 23 10 | 0 5 | 23 35 | 0 22 | 22 5 | 0 36 | 22 49 | 0 8 | 20 23 | 2 25 | 23 11 | 23 4 | 12 32 | | n.a. |
| F 4 | 22 11 | 5n46 | 5 9 | 16 3 | 1 58 | 21 3 | 0 5 | 14 46 | 0 17 | 23 10 | 0 4 | 23 34 | 0 23 | 22 4 | 0 36 | 22 49 | 0 8 | 20 23 | 2 25 | 23 11 | 23 4 | 12 30 | | n.a. |
| S 5 | 22 19 | 11 19 | 5 11 | 16 38 | 1 46 | 21 19 | 0 3 | 15 0 | 0 16 | 23 9 | 0 4 | 23 34 | 0 23 | 22 4 | 0 36 | 22 48 | 0 8 | 20 24 | 2 25 | 23 11 | 23 5 | 12 27 | | n.a. |
| S 6 | 22 27 | 16 14 | 4 57 | 17 14 | 1 34 | 21 35 | 0 0 | 15 13 | 0 15 | 23 9 | 0 4 | 23 33 | 0 23 | 22 3 | 0 36 | 22 48 | 0 8 | 20 24 | 2 25 | 23 11 | 23 5 | 12 24 | | n.a. |
| M 7 | 22 35 | 20 16 | 4 26 | 17 50 | 1 22 | 21 49 | 0n 2 | 15 27 | 0 15 | 23 8 | 0 4 | 23 32 | 0 23 | 22 3 | 0 36 | 22 48 | 0 8 | 20 24 | 2 25 | 23 12 | 23 5 | 12 22 | | n.a. |
| T 8 | 22 42 | 23 12 | 3 41 | 18 26 | 1 10 | 22 4 | 0 5 | 15 40 | 0 14 | 23 8 | 0 4 | 23 32 | 0 23 | 22 2 | 0 36 | 22 48 | 0 8 | 20 24 | 2 25 | 23 12 | 23 6 | 12 19 | | n.a. |
| W 9 | 22 49 | 24 52 | 2 46 | 19 1 | 0 58 | 22 17 | 0 7 | 15 53 | 0 14 | 23 7 | 0 4 | 23 31 | 0 23 | 22 2 | 0 36 | 22 48 | 0 8 | 20 25 | 2 25 | 23 12 | 23 6 | 12 16 | | n.a. |
| T 10 | 22 55 | 25 11 | 1 43 | 19 37 | 0 45 | 22 30 | 0 9 | 16 6 | 0 13 | 23 7 | 0 4 | 23 31 | 0 23 | 22 1 | 0 35 | 22 47 | 0 8 | 20 25 | 2 25 | 23 13 | 23 6 | 12 13 | | n.a. |
| F 11 | 23 1 | 24 13 | 0 36 | 20 12 | 0 33 | 22 43 | 0 12 | 16 19 | 0 12 | 23 6 | 0 3 | 23 30 | 0 23 | 22 1 | 0 35 | 22 47 | 0 8 | 20 25 | 2 25 | 23 13 | 23 6 | 12 10 | | n.a. |
| S 12 | 23 7 | 22 7 | 0s31 | 20 46 | 0 21 | 22 55 | 0 14 | 16 32 | 0 12 | 23 6 | 0 3 | 23 30 | 0 23 | 22 0 | 0 35 | 22 47 | 0 8 | 20 25 | 2 25 | 23 13 | 23 7 | 12 8 | | n.a. |
| S 13 | 23 12 | 19 2 | 1 36 | 21 19 | 0 9 | 23 6 | 0 16 | 16 44 | 0 11 | 23 5 | 0 3 | 23 29 | 0 23 | 21 59 | 0 35 | 22 47 | 0 8 | 20 25 | 2 25 | 23 13 | 23 7 | 12 5 | | n.a. |
| M14 | 23 17 | 15 12 | 2 36 | 21 51 | 0n 2 | 23 16 | 0 19 | 16 57 | 0 10 | 23 5 | 0 3 | 23 28 | 0 23 | 21 59 | 0 35 | 22 47 | 0 8 | 20 26 | 2 25 | 23 13 | 23 7 | 12 2 | | n.a. |
| T 15 | 23 21 | 10 49 | 3 29 | 22 21 | 0 13 | 23 26 | 0 21 | 17 9 | 0 10 | 23 4 | 0 3 | 23 28 | 0 23 | 21 58 | 0 35 | 22 46 | 0 8 | 20 26 | 2 25 | 23 12 | 23 8 | 11 59 | | n.a. |
| W16 | 23 25 | 6 2 | 4 13 | 22 49 | 0 24 | 23 35 | 0 23 | 17 21 | 0 9 | 23 3 | 0 3 | 23 27 | 0 23 | 21 58 | 0 35 | 22 46 | 0 8 | 20 26 | 2 25 | 23 12 | 23 8 | 11 57 | | n.a. |
| T 17 | 23 29 | 1 1 | 4 47 | 23 16 | 0 35 | 23 43 | 0 26 | 17 33 | 0 8 | 23 3 | 0 2 | 23 26 | 0 23 | 21 57 | 0 35 | 22 46 | 0 8 | 20 26 | 2 25 | 23 12 | 23 8 | 11 54 | | n.a. |
| F 18 | 23 32 | 4s 6 | 5 8 | 23 40 | 0 44 | 23 51 | 0 28 | 17 45 | 0 8 | 23 2 | 0 2 | 23 26 | 0 24 | 21 56 | 0 35 | 22 46 | 0 8 | 20 27 | 2 25 | 23 12 | 23 9 | 11 51 | | n.a. |
| S 19 | 23 34 | 9 10 | 5 16 | 24 2 | 0 54 | 23 58 | 0 30 | 17 56 | 0 7 | 23 2 | 0 2 | 23 25 | 0 24 | 21 56 | 0 35 | 22 45 | 0 8 | 20 27 | 2 25 | 23 12 | 23 9 | 11 48 | | n.a. |
| S 20 | 23 37 | 13 58 | 5 9 | 24 21 | 1 2 | 24 4 | 0 32 | 18 8 | 0 6 | 23 1 | 0 2 | 23 24 | 0 24 | 21 55 | 0 35 | 22 45 | 0 8 | 20 27 | 2 25 | 23 12 | 23 9 | 11 46 | | n.a. |
| M21 | 23 39 | 18 18 | 4 47 | 24 38 | 1 10 | 24 10 | 0 34 | 18 19 | 0 5 | 23 1 | 0 2 | 23 24 | 0 24 | 21 54 | 0 35 | 22 45 | 0 8 | 20 27 | 2 25 | 23 13 | 23 9 | 11 43 | | n.a. |
| T 22 | 23 40 | 21 50 | 4 8 | 24 52 | 1 17 | 24 15 | 0 37 | 18 30 | 0 5 | 23 0 | 0 2 | 23 23 | 0 24 | 21 54 | 0 35 | 22 45 | 0 8 | 20 27 | 2 24 | 23 13 | 23 10 | 11 40 | | n.a. |
| W23 | 23 41 | 24 16 | 3 14 | 25 3 | 1 24 | 24 19 | 0 39 | 18 41 | 0 4 | 22 59 | 0 2 | 23 22 | 0 24 | 21 53 | 0 35 | 22 45 | 0 8 | 20 28 | 2 24 | 23 13 | 23 10 | 11 37 | | n.a. |
| T 24 | 23 42 | 25 14 | 2 7 | 25 11 | 1 29 | 24 22 | 0 41 | 18 52 | 0 3 | 22 59 | 0 1 | 23 22 | 0 24 | 21 53 | 0 35 | 22 44 | 0 8 | 20 28 | 2 24 | 23 13 | 23 10 | 11 35 | | n.a. |
| F 25 | 23 42 | 24 32 | 0 51 | 25 16 | 1 34 | 24 25 | 0 43 | 19 3 | 0 3 | 22 58 | 0 1 | 23 21 | 0 24 | 21 52 | 0 35 | 22 44 | 0 8 | 20 28 | 2 24 | 23 13 | 23 11 | 11 32 | | n.a. |
| S 26 | 23 42 | 22 9 | 0n30 | 25 19 | 1 39 | 24 27 | 0 45 | 19 13 | 0 2 | 22 58 | 0 1 | 23 20 | 0 24 | 21 51 | 0 35 | 22 44 | 0 8 | 20 28 | 2 24 | 23 13 | 23 11 | 11 29 | | n.a. |
| S 27 | 23 41 | 18 17 | 1 50 | 25 19 | 1 42 | 24 28 | 0 47 | 19 24 | 0 1 | 22 57 | 0 1 | 23 19 | 0 24 | 21 51 | 0 35 | 22 44 | 0 8 | 20 28 | 2 24 | 23 13 | 23 11 | 11 26 | | n.a. |
| M28 | 23 40 | 13 16 | 3 2 | 25 16 | 1 45 | 24 29 | 0 49 | 19 34 | 0 1 | 22 56 | 0 1 | 23 19 | 0 24 | 21 50 | 0 35 | 22 43 | 0 8 | 20 29 | 2 24 | 23 13 | 23 11 | 11 23 | | n.a. |
| T 29 | 23 39 | 7 32 | 4 2 | 25 11 | 1 47 | 24 28 | 0 51 | 19 44 | 0n 0 | 22 56 | 0 1 | 23 18 | 0 24 | 21 49 | 0 35 | 22 43 | 0 8 | 20 29 | 2 24 | 23 13 | 23 12 | 11 21 | | n.a. |
| W30 | 23n37 | 1s30 | 4n45 | 25n 3 | 1n49 | 24n27 | 0n53 | 19n54 | 0n 1 | 22s55 | 0n 0 | 23n17 | 0n24 | 21n49 | 0n35 | 22n43 | 0s 8 | 20n29 | 2s24 | 23s13 | 23s12 | 11n18 | | n.a. |

Julian Day Number = 1700755.5, Delta T = 03h05m42s
Ecliptic obliquity = 23°42'09, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°50'41, Lahiri = - 4°43'41 Julian Calendar 1 June 57 BCE == Greg. Calendar 30 May 057 BCE

The year -56 astronomical counting style corresponds to year 057 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 57 BCE
# geocentric

## JULY 57 BCE (-56) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 26 24 | 5♋38'56 | 29♓27 | 12♋55 | 6♋57 | 28♉28 | 15°R36 | 14♋51 | 25♋47 | 15♋ 5 | 15♊14 | 11°R19 | 11♏26 | 21♌46 | n.a. | T 1 |
| F 2 | 18 30 21 | 6°36'18 | 13♈22 | 14°53 | 8°11 | 29° 8 | 15♐29 | 14°59 | 25°50 | 15° 8 | 15°16 | 11♏19 | 11°23 | 21°52 | n.a. | F 2 |
| S 3 | 18 34 17 | 7°33'40 | 26°59 | 16°50 | 9°25 | 29°47 | 15°23 | 15° 6 | 25°54 | 15°10 | 15°17 | 11°19 | 11°20 | 21°59 | n.a. | S 3 |
| S 4 | 18 38 14 | 8°31'04 | 10♉19 | 18°45 | 10°39 | 0♊27 | 15°16 | 15°14 | 25°58 | 15°12 | 15°19 | 11°18 | 11°17 | 22° 6 | n.a. | S 4 |
| M 5 | 18 42 10 | 9°28'29 | 23°23 | 20°39 | 11°53 | 1° 7 | 15°10 | 15°22 | 26° 1 | 15°14 | 15°20 | 11°18 | 11°14 | 22°12 | n.a. | M 5 |
| T 6 | 18 46 7 | 10°25'55 | 6♊12 | 22°31 | 13° 7 | 1°46 | 15° 3 | 15°29 | 26° 5 | 15°16 | 15°21 | 11°18 | 11°11 | 22°19 | n.a. | T 6 |
| W 7 | 18 50 3 | 11°23'23 | 18°47 | 24°21 | 14°22 | 2°26 | 14°57 | 15°37 | 26° 8 | 15°19 | 15°23 | 11°D18 | 11° 7 | 22°26 | n.a. | W 7 |
| T 8 | 18 54 0 | 12°20'52 | 1♋ 9 | 26°10 | 15°36 | 3° 5 | 14°51 | 15°45 | 26°12 | 15°21 | 15°24 | 11°18 | 11° 4 | 22°33 | n.a. | T 8 |
| F 9 | 18 57 57 | 13°18'22 | 13°22 | 27°58 | 16°50 | 3°45 | 14°45 | 15°52 | 26°16 | 15°23 | 15°26 | 11°R18 | 11° 1 | 22°39 | n.a. | F 9 |
| S 10 | 19 1 53 | 14°15'53 | 25°25 | 29°44 | 18° 4 | 4°24 | 14°39 | 16° 0 | 26°19 | 15°25 | 15°27 | 11°18 | 10°58 | 22°46 | n.a. | S 10 |
| S 11 | 19 5 50 | 15°13'25 | 7♌21 | 1♌28 | 19°18 | 5° 3 | 14°33 | 16° 8 | 26°23 | 15°28 | 15°28 | 11°18 | 10°55 | 22°53 | n.a. | S 11 |
| M12 | 19 9 46 | 16°10'59 | 19°13 | 3°11 | 20°32 | 5°43 | 14°28 | 16°16 | 26°27 | 15°30 | 15°30 | 11°17 | 10°51 | 22°59 | n.a. | M12 |
| T 13 | 19 13 43 | 17° 8'34 | 1♍ 2 | 4°52 | 21°46 | 6°22 | 14°22 | 16°23 | 26°30 | 15°32 | 15°31 | 11°16 | 10°48 | 23° 6 | n.a. | T 13 |
| W14 | 19 17 39 | 18° 6'09 | 12°52 | 6°32 | 23° 1 | 7° 1 | 14°17 | 16°31 | 26°34 | 15°34 | 15°32 | 11°16 | 10°45 | 23°13 | n.a. | W14 |
| T 15 | 19 21 36 | 19° 3'46 | 24°46 | 8°10 | 24°15 | 7°40 | 14°12 | 16°39 | 26°38 | 15°36 | 15°34 | 11°15 | 10°42 | 23°19 | n.a. | T 15 |
| F 16 | 19 25 32 | 20° 1'24 | 6♎49 | 9°46 | 25°29 | 8°19 | 14° 7 | 16°46 | 26°42 | 15°39 | 15°35 | 11°14 | 10°39 | 23°26 | n.a. | F 16 |
| S 17 | 19 29 29 | 20°59'03 | 19° 5 | 11°22 | 26°43 | 8°58 | 14° 2 | 16°54 | 26°45 | 15°41 | 15°36 | 11°D14 | 10°36 | 23°33 | n.a. | S 17 |
| S 18 | 19 33 26 | 21°56'43 | 1♏38 | 12°55 | 27°58 | 9°36 | 13°58 | 17° 2 | 26°49 | 15°43 | 15°38 | 11°14 | 10°32 | 23°39 | n.a. | S 18 |
| M19 | 19 37 22 | 22°54'25 | 14°32 | 14°27 | 29°12 | 10°15 | 13°53 | 17° 9 | 26°53 | 15°45 | 15°39 | 11°15 | 10°29 | 23°46 | n.a. | M19 |
| T 20 | 19 41 19 | 23°52'07 | 27°50 | 15°58 | 0♌26 | 10°54 | 13°49 | 17°17 | 26°56 | 15°48 | 15°40 | 11°16 | 10°26 | 23°53 | n.a. | T 20 |
| W21 | 19 45 15 | 24°49'51 | 11♐35 | 17°27 | 1°40 | 11°32 | 13°45 | 17°25 | 27° 0 | 15°50 | 15°41 | 11°17 | 10°23 | 23°59 | n.a. | W21 |
| T 22 | 19 49 12 | 25°47'37 | 25°45 | 18°55 | 2°55 | 12°11 | 13°41 | 17°32 | 27° 4 | 15°52 | 15°43 | 11°18 | 10°20 | 24° 6 | n.a. | T 22 |
| F 23 | 19 53 8 | 26°45'23 | 10♑20 | 20°21 | 4° 9 | 12°50 | 13°37 | 17°40 | 27° 8 | 15°54 | 15°44 | 11°R18 | 10°17 | 24°13 | n.a. | F 23 |
| S 24 | 19 57 5 | 27°43'11 | 25°14 | 21°45 | 5°23 | 13°28 | 13°33 | 17°47 | 27°11 | 15°56 | 15°45 | 11°18 | 10°13 | 24°19 | n.a. | S 24 |
| S 25 | 20 1 1 | 28°41'01 | 10♒18 | 23° 8 | 6°38 | 14° 6 | 13°30 | 17°55 | 27°15 | 15°59 | 15°46 | 11°16 | 10°10 | 24°26 | n.a. | S 25 |
| M26 | 20 4 58 | 29°38'52 | 25°26 | 24°29 | 7°52 | 14°45 | 13°26 | 18° 3 | 27°19 | 16° 1 | 15°47 | 11°15 | 10° 7 | 24°33 | n.a. | M26 |
| T 27 | 20 8 55 | 0♌36'45 | 10♓26 | 25°49 | 9° 6 | 15°23 | 13°23 | 18°10 | 27°23 | 16° 3 | 15°48 | 11°12 | 10° 4 | 24°40 | n.a. | T 27 |
| W28 | 20 12 51 | 1°34'40 | 25°11 | 27° 7 | 10°21 | 16° 1 | 13°20 | 18°18 | 27°26 | 16° 5 | 15°50 | 11°10 | 10° 1 | 24°46 | n.a. | W28 |
| T 29 | 20 16 48 | 2°32'36 | 9♈35 | 28°23 | 11°35 | 16°39 | 13°18 | 18°25 | 27°30 | 16° 7 | 15°51 | 11° 8 | 9°57 | 24°53 | n.a. | T 29 |
| F 30 | 20 20 44 | 3°30'35 | 23°36 | 29°37 | 12°49 | 17°17 | 13°15 | 18°33 | 27°34 | 16° 9 | 15°52 | 11° 6 | 9°54 | 25° 0 | n.a. | F 30 |
| S 31 | 20 24 41 | 4♌28'36 | 7♉12 | 0♍50 | 14♌ 4 | 17♊55 | 13♐13 | 18♋40 | 27♋38 | 16♋11 | 15♊53 | 11°D 6 | 9♏51 | 25♌ 6 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 23n35 | 4n31 | 5n11 | 24n53 | 1n49 | 24n25 | 0n54 | 20n 4 | 0n 1 | 22s55 | 0n 0 | 23n16 | 0n25 | 21n48 | 0n35 | 22n43 | 0s 8 | 20n29 | 2s24 | 23s13 | 23s12 | 11n15 | | | n.a. |
| F 2 | 23 32 | 10 11 | 5 17 | 24 40 | 1 49 | 24 23 | 0 56 | 20 13 | 0 2 | 22 54 | 0 0 | 23 15 | 0 25 | 21 47 | 0 35 | 22 43 | 0 8 | 20 29 | 2 24 | 23 13 | 23 12 | 11 12 | | | n.a. |
| S 3 | 23 29 | 15 15 | 5 6 | 24 26 | 1 49 | 24 20 | 0 58 | 20 22 | 0 3 | 22 53 | 0s 0 | 23 15 | 0 25 | 21 47 | 0 35 | 22 42 | 0 8 | 20 30 | 2 24 | 23 13 | 23 13 | 11 9 | | | n.a. |
| S 4 | 23 26 | 19 28 | 4 38 | 24 9 | 1 48 | 24 16 | 1 0 | 20 32 | 0 4 | 22 53 | 0 0 | 23 14 | 0 25 | 21 46 | 0 35 | 22 42 | 0 8 | 20 30 | 2 24 | 23 13 | 23 13 | 11 7 | | | n.a. |
| M 5 | 23 22 | 22 37 | 3 56 | 23 51 | 1 46 | 24 11 | 1 1 | 20 41 | 0 4 | 22 52 | 0 0 | 23 13 | 0 25 | 21 45 | 0 35 | 22 42 | 0 8 | 20 30 | 2 24 | 23 13 | 23 13 | 11 4 | | | n.a. |
| T 6 | 23 17 | 24 35 | 3 3 | 23 30 | 1 44 | 24 6 | 1 3 | 20 50 | 0 5 | 22 52 | 0 0 | 23 12 | 0 25 | 21 45 | 0 35 | 22 42 | 0 8 | 20 30 | 2 24 | 23 13 | 23 14 | 11 1 | | | n.a. |
| W 7 | 23 12 | 25 15 | 2 2 | 23 8 | 1 41 | 23 59 | 1 5 | 20 58 | 0 6 | 22 51 | 0 1 | 23 11 | 0 25 | 21 44 | 0 35 | 22 41 | 0 8 | 20 30 | 2 24 | 23 13 | 23 14 | 10 58 | | | n.a. |
| T 8 | 23 7 | 24 38 | 0 56 | 22 45 | 1 38 | 23 52 | 1 6 | 21 7 | 0 6 | 22 51 | 0 1 | 23 11 | 0 25 | 21 43 | 0 35 | 22 41 | 0 7 | 20 31 | 2 24 | 23 13 | 23 14 | 10 56 | | | n.a. |
| F 9 | 23 2 | 22 50 | 0s11 | 22 20 | 1 34 | 23 45 | 1 8 | 21 15 | 0 7 | 22 50 | 0 1 | 23 10 | 0 25 | 21 42 | 0 35 | 22 41 | 0 7 | 20 31 | 2 24 | 23 13 | 23 14 | 10 53 | | | n.a. |
| S 10 | 22 56 | 20 1 | 1 18 | 21 54 | 1 30 | 23 36 | 1 9 | 21 23 | 0 8 | 22 50 | 0 1 | 23 9 | 0 25 | 21 42 | 0 35 | 22 41 | 0 7 | 20 31 | 2 24 | 23 13 | 23 15 | 10 50 | | | n.a. |
| S 11 | 22 49 | 16 23 | 2 20 | 21 26 | 1 25 | 23 27 | 1 10 | 21 31 | 0 9 | 22 49 | 0 1 | 23 8 | 0 25 | 21 41 | 0 35 | 22 40 | 0 7 | 20 31 | 2 24 | 23 13 | 23 15 | 10 47 | | | n.a. |
| M12 | 22 43 | 12 8 | 3 15 | 20 58 | 1 20 | 23 18 | 1 12 | 21 39 | 0 9 | 22 49 | 0 1 | 23 7 | 0 25 | 21 40 | 0 35 | 22 40 | 0 7 | 20 31 | 2 24 | 23 13 | 23 15 | 10 44 | | | n.a. |
| T 13 | 22 35 | 7 27 | 4 2 | 20 28 | 1 15 | 23 7 | 1 13 | 21 46 | 0 10 | 22 48 | 0 2 | 23 6 | 0 26 | 21 40 | 0 35 | 22 40 | 0 7 | 20 31 | 2 24 | 23 13 | 23 15 | 10 42 | | | n.a. |
| W14 | 22 28 | 2 31 | 4 39 | 19 58 | 1 9 | 22 56 | 1 14 | 21 54 | 0 11 | 22 48 | 0 2 | 23 6 | 0 26 | 21 39 | 0 35 | 22 40 | 0 7 | 20 32 | 2 24 | 23 13 | 23 16 | 10 39 | | | n.a. |
| T 15 | 22 20 | 2s33 | 5 4 | 19 26 | 1 3 | 22 44 | 1 15 | 22 1 | 0 12 | 22 47 | 0 2 | 23 5 | 0 26 | 21 38 | 0 35 | 22 39 | 0 7 | 20 32 | 2 24 | 23 13 | 23 16 | 10 36 | | | n.a. |
| F 16 | 22 11 | 7 34 | 5 16 | 18 54 | 0 57 | 22 32 | 1 17 | 22 8 | 0 12 | 22 47 | 0 2 | 23 4 | 0 26 | 21 37 | 0 35 | 22 39 | 0 7 | 20 32 | 2 24 | 23 13 | 23 16 | 10 33 | | | n.a. |
| S 17 | 22 3 | 12 23 | 5 14 | 18 22 | 0 50 | 22 19 | 1 18 | 22 15 | 0 13 | 22 46 | 0 2 | 23 3 | 0 26 | 21 37 | 0 35 | 22 39 | 0 7 | 20 32 | 2 24 | 23 13 | 23 16 | 10 30 | | | n.a. |
| S 18 | 21 53 | 16 48 | 4 57 | 17 48 | 0 43 | 22 5 | 1 19 | 22 22 | 0 14 | 22 46 | 0 2 | 23 2 | 0 26 | 21 36 | 0 35 | 22 39 | 0 7 | 20 32 | 2 24 | 23 13 | 23 17 | 10 28 | | | n.a. |
| M19 | 21 44 | 20 35 | 4 25 | 17 15 | 0 36 | 21 50 | 1 20 | 22 28 | 0 15 | 22 45 | 0 2 | 23 1 | 0 26 | 21 35 | 0 35 | 22 38 | 0 7 | 20 32 | 2 24 | 23 13 | 23 17 | 10 25 | | | n.a. |
| T 20 | 21 34 | 23 26 | 3 38 | 16 40 | 0 28 | 21 35 | 1 20 | 22 35 | 0 15 | 22 45 | 0 3 | 23 0 | 0 26 | 21 35 | 0 35 | 22 38 | 0 7 | 20 33 | 2 24 | 23 13 | 23 17 | 10 22 | | | n.a. |
| W21 | 21 24 | 25 1 | 2 37 | 16 6 | 0 20 | 21 19 | 1 21 | 22 41 | 0 16 | 22 45 | 0 3 | 22 59 | 0 26 | 21 34 | 0 35 | 22 38 | 0 7 | 20 33 | 2 23 | 23 13 | 23 17 | 10 19 | | | n.a. |
| T 22 | 21 13 | 25 3 | 1 25 | 15 31 | 0 12 | 21 3 | 1 22 | 22 47 | 0 17 | 22 44 | 0 3 | 22 58 | 0 26 | 21 33 | 0 35 | 22 38 | 0 7 | 20 33 | 2 23 | 23 13 | 23 18 | 10 16 | | | n.a. |
| F 23 | 21 2 | 23 23 | 0 5 | 14 56 | 0 4 | 20 46 | 1 23 | 22 53 | 0 18 | 22 44 | 0 3 | 22 58 | 0 26 | 21 32 | 0 35 | 22 37 | 0 7 | 20 33 | 2 23 | 23 13 | 23 18 | 10 13 | | | n.a. |
| S 24 | 20 51 | 20 4 | 1n16 | 14 20 | 0s 4 | 20 29 | 1 23 | 22 58 | 0 18 | 22 44 | 0 3 | 22 57 | 0 27 | 21 32 | 0 35 | 22 37 | 0 7 | 20 33 | 2 23 | 23 13 | 23 18 | 10 11 | | | n.a. |
| S 25 | 20 39 | 15 23 | 2 34 | 13 45 | 0 13 | 20 10 | 1 24 | 23 4 | 0 19 | 22 43 | 0 3 | 22 56 | 0 27 | 21 31 | 0 35 | 22 37 | 0 7 | 20 33 | 2 23 | 23 13 | 23 18 | 10 8 | | | n.a. |
| M26 | 20 27 | 9 44 | 3 40 | 13 10 | 0 22 | 19 52 | 1 24 | 23 9 | 0 20 | 22 43 | 0 3 | 22 55 | 0 27 | 21 30 | 0 35 | 22 37 | 0 7 | 20 34 | 2 23 | 23 13 | 23 19 | 10 5 | | | n.a. |
| T 27 | 20 14 | 3 34 | 4 31 | 12 34 | 0 31 | 19 32 | 1 25 | 23 14 | 0 21 | 22 43 | 0 4 | 22 54 | 0 27 | 21 29 | 0 35 | 22 36 | 0 7 | 20 34 | 2 23 | 23 13 | 23 19 | 10 2 | | | n.a. |
| W28 | 20 2 | 2n42 | 5 3 | 11 59 | 0 40 | 19 12 | 1 25 | 23 19 | 0 21 | 22 43 | 0 4 | 22 53 | 0 27 | 21 29 | 0 35 | 22 36 | 0 7 | 20 34 | 2 23 | 23 14 | 23 19 | 9 59 | | | n.a. |
| T 29 | 19 48 | 8 39 | 5 15 | 11 24 | 0 49 | 18 52 | 1 25 | 23 24 | 0 22 | 22 42 | 0 4 | 22 52 | 0 27 | 21 28 | 0 35 | 22 36 | 0 7 | 20 34 | 2 23 | 23 14 | 23 19 | 9 57 | | | n.a. |
| F 30 | 19 35 | 14 1 | 5 8 | 10 50 | 0 58 | 18 31 | 1 26 | 23 28 | 0 23 | 22 42 | 0 4 | 22 51 | 0 27 | 21 27 | 0 35 | 22 36 | 0 7 | 20 34 | 2 23 | 23 14 | 23 20 | 9 54 | | | n.a. |
| S 31 | 19n21 | 18n31 | 4n43 | 10n15 | 1s 7 | 18n10 | 1n26 | 23n32 | 0n24 | 22s42 | 0s 4 | 22n50 | 0n27 | 21n27 | 0n35 | 22n35 | 0s 7 | 20n34 | 2s23 | 23s14 | 23s20 | 9n51 | | | n.a. |

Julian Day Number = 1700785.5, Delta T = 03h05m41s
Ecliptic obliquity = 23°42'08, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°50'37, Lahiri = - 4°43'37 Julian Calendar 1 July 57 BCE == Greg. Calendar 29 June 057 BCE

The year -56 astronomical counting style corresponds to year 057 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 57 BCE
# geocentric

## AUGUST 57 BCE (-56) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 28 37 | 5♌26'39 | 20♉24 | 2♍ 0 | 15♌18 | 18♊33 | 13°R10 | 18♋48 | 27♋41 | 16♋14 | 15♊54 | 11♑ 7 | 9♑48 | 25♌13 | n.a. | S 1 |
| M 2 | 20 32 34 | 6°24'44 | 3♊16 | 3° 9 | 16°32 | 19°11 | 13♐ 8 | 18°55 | 27°45 | 16°16 | 15°55 | 11° 8 | 9°45 | 25°20 | n.a. | M 2 |
| T 3 | 20 36 30 | 7°22'51 | 15°50 | 4°15 | 17°47 | 19°49 | 13° 6 | 19° 3 | 27°49 | 16°18 | 15°56 | 11°10 | 9°42 | 25°26 | n.a. | T 3 |
| W 4 | 20 40 27 | 8°20'59 | 28° 9 | 5°19 | 19° 1 | 20°27 | 13° 5 | 19°10 | 27°52 | 16°20 | 15°57 | 11°11 | 9°38 | 25°33 | n.a. | W 4 |
| T 5 | 20 44 24 | 9°19'10 | 10♋18 | 6°21 | 20°16 | 21° 4 | 13° 3 | 19°18 | 27°56 | 16°22 | 15°58 | 11°R12 | 9°35 | 25°40 | n.a. | T 5 |
| F 6 | 20 48 20 | 10°17'23 | 22°19 | 7°20 | 21°30 | 21°42 | 13° 2 | 19°25 | 28° 0 | 16°24 | 15°59 | 11°11 | 9°32 | 25°46 | n.a. | F 6 |
| S 7 | 20 52 17 | 11°15'38 | 4♌13 | 8°16 | 22°45 | 22°19 | 13° 1 | 19°32 | 28° 3 | 16°26 | 16° 0 | 11° 9 | 9°29 | 25°53 | n.a. | S 7 |
| S 8 | 20 56 13 | 12°13'55 | 16° 5 | 9°10 | 23°59 | 22°57 | 13° 0 | 19°40 | 28° 7 | 16°28 | 16° 1 | 11° 6 | 9°26 | 26° 0 | n.a. | S 8 |
| M 9 | 21 0 10 | 13°12'13 | 27°54 | 10° 0 | 25°13 | 23°34 | 12°59 | 19°47 | 28°11 | 16°30 | 16° 2 | 11° 1 | 9°22 | 26° 6 | n.a. | M 9 |
| T 10 | 21 4 6 | 14°10'34 | 9♍44 | 10°48 | 26°28 | 24°12 | 12°59 | 19°54 | 28°14 | 16°32 | 16° 3 | 10°55 | 9°19 | 26°13 | n.a. | T 10 |
| W11 | 21 8 3 | 15° 8'56 | 21°36 | 11°32 | 27°42 | 24°49 | 12°59 | 20° 1 | 28°18 | 16°34 | 16° 4 | 10°49 | 9°16 | 26°20 | n.a. | W11 |
| T 12 | 21 11 59 | 16° 7'20 | 3♎33 | 12°12 | 28°57 | 25°26 | 12°D58 | 20° 9 | 28°22 | 16°36 | 16° 5 | 10°43 | 9°13 | 26°26 | n.a. | T 12 |
| F 13 | 21 15 56 | 17° 5'45 | 15°38 | 12°48 | 0♍11 | 26° 3 | 12°59 | 20°16 | 28°25 | 16°38 | 16° 5 | 10°38 | 9°10 | 26°33 | n.a. | F 13 |
| S 14 | 21 19 53 | 18° 4'13 | 27°53 | 13°20 | 1°26 | 26°40 | 12°59 | 20°23 | 28°29 | 16°40 | 16° 6 | 10°34 | 9° 7 | 26°40 | n.a. | S 14 |
| S 15 | 21 23 49 | 19° 2'42 | 10♏23 | 13°47 | 2°40 | 27°17 | 12°59 | 20°30 | 28°32 | 16°42 | 16° 7 | 10°32 | 9° 3 | 26°47 | n.a. | S 15 |
| M16 | 21 27 46 | 20° 1'13 | 23°11 | 14°10 | 3°55 | 27°54 | 13° 0 | 20°37 | 28°36 | 16°44 | 16° 8 | 10°D32 | 9° 0 | 26°53 | n.a. | M16 |
| T 17 | 21 31 42 | 20°59'45 | 6♐22 | 14°27 | 5° 9 | 28°31 | 13° 1 | 20°44 | 28°39 | 16°46 | 16° 9 | 10°33 | 8°57 | 27° 0 | n.a. | T 17 |
| W18 | 21 35 39 | 21°58'20 | 19°58 | 14°38 | 6°24 | 29° 8 | 13° 2 | 20°51 | 28°43 | 16°48 | 16° 9 | 10°34 | 8°54 | 27° 7 | n.a. | W18 |
| T 19 | 21 39 35 | 22°56'56 | 4♑ 1 | 14°R44 | 7°38 | 29°44 | 13° 3 | 20°58 | 28°46 | 16°50 | 16°10 | 10°R35 | 8°51 | 27°13 | n.a. | T 19 |
| F 20 | 21 43 32 | 23°55'34 | 18°30 | 14°43 | 8°53 | 0♋21 | 13° 4 | 21° 5 | 28°50 | 16°52 | 16°11 | 10°35 | 8°48 | 27°20 | n.a. | F 20 |
| S 21 | 21 47 28 | 24°54'14 | 3♒24 | 14°36 | 10° 7 | 0°57 | 13° 6 | 21°12 | 28°53 | 16°54 | 16°12 | 10°33 | 8°44 | 27°27 | n.a. | S 21 |
| S 22 | 21 51 25 | 25°52'56 | 18°34 | 14°22 | 11°22 | 1°34 | 13° 8 | 21°19 | 28°57 | 16°55 | 16°12 | 10°29 | 8°41 | 27°33 | n.a. | S 22 |
| M23 | 21 55 22 | 26°51'39 | 3♓52 | 14° 0 | 12°36 | 2°10 | 13°10 | 21°25 | 29° 0 | 16°57 | 16°13 | 10°23 | 8°38 | 27°40 | n.a. | M23 |
| T 24 | 21 59 18 | 27°50'25 | 19° 7 | 13°32 | 13°50 | 2°46 | 13°12 | 21°32 | 29° 4 | 16°59 | 16°14 | 10°16 | 8°35 | 27°47 | n.a. | T 24 |
| W25 | 22 3 15 | 28°49'13 | 4♈ 8 | 12°56 | 15° 5 | 3°22 | 13°14 | 21°39 | 29° 7 | 17° 1 | 16°14 | 10° 9 | 8°32 | 27°53 | n.a. | W25 |
| T 26 | 22 7 11 | 29°48'03 | 18°47 | 12°14 | 16°19 | 3°59 | 13°17 | 21°45 | 29°10 | 17° 3 | 16°15 | 10° 3 | 8°28 | 28° 0 | n.a. | T 26 |
| F 27 | 22 11 8 | 0♍46'56 | 2♉58 | 11°24 | 17°34 | 4°35 | 13°20 | 21°52 | 29°14 | 17° 4 | 16°15 | 9°57 | 8°25 | 28° 7 | n.a. | F 27 |
| S 28 | 22 15 4 | 1°45'51 | 16°41 | 10°29 | 18°48 | 5°11 | 13°23 | 21°58 | 29°17 | 17° 6 | 16°16 | 9°54 | 8°22 | 28°14 | n.a. | S 28 |
| S 29 | 22 19 1 | 2°44'48 | 29°54 | 9°29 | 20° 3 | 5°46 | 13°26 | 22° 5 | 29°20 | 17° 8 | 16°16 | 9°D53 | 8°19 | 28°20 | n.a. | S 29 |
| M30 | 22 22 57 | 3°43'48 | 12♊43 | 8°24 | 21°17 | 6°22 | 13°29 | 22°11 | 29°24 | 17° 9 | 16°17 | 9°53 | 8°16 | 28°27 | n.a. | M30 |
| T 31 | 22 26 54 | 4♍42'51 | 25♊11 | 7♍17 | 22♍32 | 6♋58 | 13♐33 | 22♋18 | 29♋27 | 17♋11 | 16♊17 | 9♑54 | 8♑13 | 28♌34 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 19n 7 | 21n58 | 4n 4 | 9n41 | 1s17 | 17n48 | 1n26 | 23n37 | 0n24 | 22s42 | 0s 4 | 22n49 | 0n27 | 21n26 | 0n35 | 22n35 | 0s 7 | 20n34 | 2s23 | 23s14 | 23s20 | 9n48 | | n.a. |
| M 2 | 18 52 | 24 12 | 3 14 | 9 7 | 1 26 | 17 25 | 1 26 | 23 41 | 0 25 | 22 42 | 0 4 | 22 48 | 0 27 | 21 25 | 0 35 | 22 35 | 0 7 | 20 34 | 2 23 | 23 14 | 23 20 | 9 45 | | n.a. |
| T 3 | 18 38 | 25 11 | 2 15 | 8 34 | 1 36 | 17 2 | 1 26 | 23 44 | 0 26 | 22 42 | 0 4 | 22 47 | 0 28 | 21 24 | 0 35 | 22 35 | 0 7 | 20 35 | 2 23 | 23 14 | 23 21 | 9 43 | | n.a. |
| W 4 | 18 23 | 24 52 | 1 11 | 8 2 | 1 45 | 16 39 | 1 26 | 23 48 | 0 27 | 22 42 | 0 5 | 22 46 | 0 28 | 21 24 | 0 35 | 22 34 | 0 7 | 20 35 | 2 23 | 23 14 | 23 21 | 9 40 | | n.a. |
| T 5 | 18 7 | 23 23 | 0 5 | 7 30 | 1 55 | 16 15 | 1 26 | 23 51 | 0 28 | 22 42 | 0 5 | 22 45 | 0 28 | 21 23 | 0 35 | 22 34 | 0 7 | 20 35 | 2 23 | 23 13 | 23 21 | 9 37 | | n.a. |
| F 6 | 17 51 | 20 50 | 1s 1 | 7 0 | 2 4 | 15 50 | 1 26 | 23 55 | 0 28 | 22 42 | 0 5 | 22 44 | 0 28 | 21 22 | 0 35 | 22 34 | 0 7 | 20 35 | 2 23 | 23 14 | 23 21 | 9 34 | | n.a. |
| S 7 | 17 35 | 17 25 | 2 3 | 6 30 | 2 14 | 15 26 | 1 25 | 23 58 | 0 29 | 22 42 | 0 5 | 22 43 | 0 28 | 21 21 | 0 35 | 22 34 | 0 7 | 20 35 | 2 23 | 23 14 | 23 22 | 9 31 | | n.a. |
| S 8 | 17 19 | 13 20 | 2 59 | 6 1 | 2 23 | 15 0 | 1 25 | 24 1 | 0 30 | 22 42 | 0 5 | 22 42 | 0 28 | 21 21 | 0 35 | 22 33 | 0 7 | 20 35 | 2 23 | 23 14 | 23 22 | 9 28 | | n.a. |
| M 9 | 17 2 | 8 46 | 3 48 | 5 33 | 2 32 | 14 35 | 1 25 | 24 3 | 0 31 | 22 42 | 0 5 | 22 41 | 0 28 | 21 20 | 0 35 | 22 33 | 0 7 | 20 35 | 2 23 | 23 14 | 23 22 | 9 26 | | n.a. |
| T 10 | 16 45 | 3 54 | 4 26 | 5 7 | 2 41 | 14 9 | 1 24 | 24 6 | 0 32 | 22 42 | 0 5 | 22 40 | 0 28 | 21 19 | 0 36 | 22 33 | 0 7 | 20 35 | 2 23 | 23 15 | 23 22 | 9 23 | | n.a. |
| W11 | 16 28 | 1s 8 | 4 54 | 4 42 | 2 50 | 13 42 | 1 24 | 24 8 | 0 32 | 22 42 | 0 6 | 22 39 | 0 28 | 21 18 | 0 36 | 22 33 | 0 7 | 20 35 | 2 23 | 23 15 | 23 22 | 9 20 | | n.a. |
| T 12 | 16 11 | 6 8 | 5 8 | 4 18 | 2 59 | 13 16 | 1 23 | 24 11 | 0 33 | 22 42 | 0 6 | 22 38 | 0 28 | 21 18 | 0 36 | 22 32 | 0 7 | 20 36 | 2 23 | 23 16 | 23 23 | 9 17 | | n.a. |
| F 13 | 15 53 | 10 58 | 5 10 | 3 57 | 3 7 | 12 49 | 1 22 | 24 13 | 0 34 | 22 42 | 0 6 | 22 38 | 0 29 | 21 17 | 0 36 | 22 32 | 0 7 | 20 36 | 2 23 | 23 16 | 23 23 | 9 14 | | n.a. |
| S 14 | 15 35 | 15 27 | 4 57 | 3 37 | 3 15 | 12 21 | 1 22 | 24 14 | 0 35 | 22 42 | 0 6 | 22 37 | 0 29 | 21 16 | 0 36 | 22 32 | 0 7 | 20 36 | 2 23 | 23 17 | 23 23 | 9 11 | | n.a. |
| S 15 | 15 17 | 19 21 | 4 30 | 3 20 | 3 23 | 11 53 | 1 21 | 24 16 | 0 36 | 22 42 | 0 6 | 22 36 | 0 29 | 21 16 | 0 36 | 22 32 | 0 7 | 20 36 | 2 23 | 23 17 | 23 23 | 9 9 | | n.a. |
| M16 | 14 58 | 22 28 | 3 49 | 3 4 | 3 30 | 11 25 | 1 20 | 24 18 | 0 36 | 22 43 | 0 6 | 22 35 | 0 29 | 21 15 | 0 36 | 22 31 | 0 7 | 20 36 | 2 23 | 23 17 | 23 24 | 9 6 | | n.a. |
| T 17 | 14 39 | 24 29 | 2 55 | 2 52 | 3 37 | 10 57 | 1 19 | 24 19 | 0 37 | 22 43 | 0 6 | 22 34 | 0 29 | 21 14 | 0 36 | 22 31 | 0 7 | 20 36 | 2 23 | 23 17 | 23 24 | 9 3 | | n.a. |
| W18 | 14 20 | 25 8 | 1 50 | 2 42 | 3 43 | 10 28 | 1 18 | 24 20 | 0 38 | 22 43 | 0 6 | 22 33 | 0 29 | 21 13 | 0 36 | 22 31 | 0 7 | 20 36 | 2 23 | 23 17 | 23 24 | 9 0 | | n.a. |
| T 19 | 14 1 | 24 14 | 0 36 | 2 35 | 3 48 | 9 59 | 1 17 | 24 21 | 0 39 | 22 43 | 0 6 | 22 32 | 0 29 | 21 13 | 0 36 | 22 31 | 0 7 | 20 36 | 2 23 | 23 16 | 23 24 | 8 57 | | n.a. |
| F 20 | 13 42 | 21 42 | 0n43 | 2 31 | 3 52 | 9 30 | 1 16 | 24 22 | 0 40 | 22 44 | 0 7 | 22 31 | 0 29 | 21 12 | 0 36 | 22 31 | 0 7 | 20 36 | 2 23 | 23 17 | 23 24 | 8 54 | | n.a. |
| S 21 | 13 22 | 17 40 | 2 0 | 2 31 | 3 55 | 9 0 | 1 15 | 24 23 | 0 41 | 22 44 | 0 7 | 22 30 | 0 29 | 21 11 | 0 36 | 22 30 | 0 7 | 20 36 | 2 23 | 23 17 | 23 25 | 8 52 | | n.a. |
| S 22 | 13 2 | 12 24 | 3 11 | 2 34 | 3 57 | 8 31 | 1 13 | 24 23 | 0 41 | 22 44 | 0 7 | 22 29 | 0 30 | 21 11 | 0 36 | 22 30 | 0 7 | 20 36 | 2 23 | 23 17 | 23 25 | 8 49 | | n.a. |
| M23 | 12 42 | 6 21 | 4 8 | 2 42 | 3 58 | 8 1 | 1 12 | 24 23 | 0 42 | 22 45 | 0 7 | 22 28 | 0 30 | 21 10 | 0 36 | 22 30 | 0 7 | 20 36 | 2 23 | 23 17 | 23 25 | 8 46 | | n.a. |
| T 24 | 12 21 | 0n 2 | 4 47 | 2 53 | 3 58 | 7 30 | 1 11 | 24 24 | 0 43 | 22 45 | 0 7 | 22 27 | 0 30 | 21 9 | 0 36 | 22 30 | 0 7 | 20 37 | 2 23 | 23 18 | 23 25 | 8 43 | | n.a. |
| W25 | 12 1 | 6 20 | 5 6 | 3 9 | 3 56 | 7 0 | 1 9 | 24 24 | 0 44 | 22 45 | 0 7 | 22 26 | 0 30 | 21 9 | 0 36 | 22 29 | 0 7 | 20 37 | 2 23 | 23 19 | 23 25 | 8 40 | | n.a. |
| T 26 | 11 40 | 12 7 | 5 4 | 3 29 | 3 52 | 6 30 | 1 8 | 24 23 | 0 45 | 22 46 | 0 7 | 22 25 | 0 30 | 21 8 | 0 36 | 22 29 | 0 7 | 20 37 | 2 23 | 23 19 | 23 26 | 8 37 | | n.a. |
| F 27 | 11 19 | 17 4 | 4 43 | 3 53 | 3 46 | 5 59 | 1 6 | 24 23 | 0 46 | 22 46 | 0 7 | 22 24 | 0 30 | 21 7 | 0 36 | 22 29 | 0 7 | 20 37 | 2 23 | 23 19 | 23 26 | 8 35 | | n.a. |
| S 28 | 10 58 | 20 56 | 4 7 | 4 21 | 3 38 | 5 28 | 1 5 | 24 23 | 0 47 | 22 47 | 0 7 | 22 23 | 0 30 | 21 7 | 0 36 | 22 29 | 0 7 | 20 37 | 2 23 | 23 20 | 23 26 | 8 32 | | n.a. |
| S 29 | 10 36 | 23 35 | 3 18 | 4 53 | 3 29 | 4 57 | 1 3 | 24 22 | 0 48 | 22 47 | 0 8 | 22 22 | 0 30 | 21 6 | 0 36 | 22 29 | 0 7 | 20 37 | 2 23 | 23 20 | 23 26 | 8 29 | | n.a. |
| M30 | 10 15 | 24 54 | 2 21 | 5 28 | 3 17 | 4 26 | 1 1 | 24 21 | 0 48 | 22 48 | 0 8 | 22 21 | 0 31 | 21 5 | 0 36 | 22 28 | 0 7 | 20 37 | 2 23 | 23 20 | 23 26 | 8 26 | | n.a. |
| T 31 | 9n53 | 24n55 | 1n18 | 6n 6 | 3s 3 | 3n54 | 1n 0 | 24n20 | 0n49 | 22s48 | 0s 8 | 22n20 | 0n31 | 21n 5 | 0n36 | 22n28 | 0s 7 | 20n37 | 2s23 | 23s20 | 23s27 | 8n23 | | n.a. |

Julian Day Number = 1700816.5, Delta T = 03h05m40s
Ecliptic obliquity = 23°42'08, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°50'33, Lahiri = - 4°43'33 Julian Calendar 1 Aug. 57 BCE == Greg. Calendar 30 July 057 BCE

The year -56 astronomical counting style corresponds to year 057 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 57 BCE
# geocentric

## SEPTEMBER 57 BCE (-56) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 22 30 50 | 5♍41'55 | 7♋23 | 6°R 9 | 23♍46 | 7♋34 | 13♐36 | 22♋24 | 29♋30 | 17♋13 | 16♊18 | 9°R55 | 8♑ 9 | 28♌40 | n.a. | W 1 |
| T 2 | 22 34 47 | 6°41'03 | 19°24 | 5♍ 2 | 25° 1 | 8° 9 | 13°40 | 22°30 | 29°33 | 17°14 | 16°18 | 9♑55 | 8° 6 | 28°47 | n.a. | T 2 |
| F 3 | 22 38 44 | 7°40'12 | 1♌17 | 3°57 | 26°15 | 8°44 | 13°44 | 22°37 | 29°36 | 17°16 | 16°18 | 9°52 | 8° 3 | 28°54 | n.a. | F 3 |
| S 4 | 22 42 40 | 8°39'24 | 13° 7 | 2°56 | 27°30 | 9°20 | 13°48 | 22°43 | 29°39 | 17°17 | 16°19 | 9°47 | 8° 0 | 29° 0 | n.a. | S 4 |
| S 5 | 22 46 37 | 9°38'38 | 24°56 | 2° 1 | 28°44 | 9°55 | 13°53 | 22°49 | 29°43 | 17°19 | 16°19 | 9°40 | 7°57 | 29° 7 | n.a. | S 5 |
| M 6 | 22 50 33 | 10°37'54 | 6♍46 | 1°14 | 29°59 | 10°30 | 13°57 | 22°55 | 29°46 | 17°20 | 16°20 | 9°30 | 7°54 | 29°14 | n.a. | M 6 |
| T 7 | 22 54 30 | 11°37'12 | 18°40 | 0°35 | 1♎13 | 11° 5 | 14° 2 | 23° 1 | 29°49 | 17°22 | 16°20 | 9°18 | 7°50 | 29°20 | n.a. | T 7 |
| W 8 | 22 58 26 | 12°36'32 | 0♎38 | 0° 6 | 2°27 | 11°40 | 14° 7 | 23° 7 | 29°52 | 17°23 | 16°20 | 9° 6 | 7°47 | 29°27 | n.a. | W 8 |
| T 9 | 23 2 23 | 13°35'55 | 12°43 | 29♌47 | 3°42 | 12°15 | 14°12 | 23°12 | 29°55 | 17°25 | 16°20 | 8°54 | 7°44 | 29°34 | n.a. | T 9 |
| F 10 | 23 6 19 | 14°35'19 | 24°54 | 29°D40 | 4°56 | 12°50 | 14°17 | 23°18 | 29°58 | 17°26 | 16°21 | 8°43 | 7°41 | 29°41 | n.a. | F 10 |
| S 11 | 23 10 16 | 15°34'45 | 7♏15 | 29°43 | 6°11 | 13°25 | 14°23 | 23°24 | 0♌ 0 | 17°28 | 16°21 | 8°35 | 7°38 | 29°47 | n.a. | S 11 |
| S 12 | 23 14 13 | 16°34'14 | 19°48 | 29°56 | 7°25 | 13°59 | 14°28 | 23°30 | 0° 3 | 17°29 | 16°21 | 8°29 | 7°34 | 29°54 | n.a. | S 12 |
| M13 | 23 18 9 | 17°33'44 | 2♐35 | 0♍20 | 8°40 | 14°34 | 14°34 | 23°35 | 0° 6 | 17°30 | 16°21 | 8°26 | 7°31 | 0♍ 1 | n.a. | M13 |
| T 14 | 23 22 6 | 18°33'16 | 15°41 | 0°53 | 9°54 | 15° 8 | 14°40 | 23°41 | 0° 9 | 17°31 | 16°21 | 8°D25 | 7°28 | 0° 7 | n.a. | T 14 |
| W15 | 23 26 2 | 19°32'51 | 29° 7 | 1°36 | 11° 9 | 15°43 | 14°46 | 23°46 | 0°12 | 17°33 | 16°21 | 8°25 | 7°25 | 0°14 | n.a. | W15 |
| T 16 | 23 29 59 | 20°32'26 | 12♑58 | 2°27 | 12°23 | 16°17 | 14°52 | 23°51 | 0°14 | 17°34 | 16°21 | 8°R25 | 7°22 | 0°21 | n.a. | T 16 |
| F 17 | 23 33 55 | 21°32'04 | 27°13 | 3°26 | 13°37 | 16°51 | 14°58 | 23°57 | 0°17 | 17°35 | 16°22 | 8°24 | 7°19 | 0°27 | n.a. | F 17 |
| S 18 | 23 37 52 | 22°31'44 | 11♒53 | 4°31 | 14°52 | 17°25 | 15° 5 | 24° 2 | 0°20 | 17°36 | 16°22 | 8°20 | 7°15 | 0°34 | n.a. | S 18 |
| S 19 | 23 41 48 | 23°31'25 | 26°52 | 5°42 | 16° 6 | 17°59 | 15°12 | 24° 7 | 0°22 | 17°37 | 16°R22 | 8°14 | 7°12 | 0°41 | n.a. | S 19 |
| M20 | 23 45 45 | 24°31'08 | 12♓ 3 | 6°58 | 17°20 | 18°32 | 15°19 | 24°12 | 0°25 | 17°39 | 16°22 | 8° 5 | 7° 9 | 0°47 | n.a. | M20 |
| T 21 | 23 49 41 | 25°30'53 | 27°16 | 8°19 | 18°35 | 19° 6 | 15°26 | 24°17 | 0°27 | 17°40 | 16°22 | 7°55 | 7° 6 | 0°54 | n.a. | T 21 |
| W22 | 23 53 38 | 26°30'41 | 12♈20 | 9°43 | 19°49 | 19°40 | 15°33 | 24°22 | 0°30 | 17°41 | 16°21 | 7°43 | 7° 3 | 1° 1 | n.a. | W22 |
| T 23 | 23 57 35 | 27°30'30 | 27° 6 | 11°11 | 21° 3 | 20°13 | 15°40 | 24°27 | 0°32 | 17°42 | 16°21 | 7°33 | 6°59 | 1° 8 | n.a. | T 23 |
| F 24 | 0 1 31 | 28°30'22 | 11♉26 | 12°42 | 22°18 | 20°46 | 15°48 | 24°32 | 0°35 | 17°43 | 16°21 | 7°24 | 6°56 | 1°14 | n.a. | F 24 |
| S 25 | 0 5 28 | 29°30'16 | 25°16 | 14°14 | 23°32 | 21°20 | 15°55 | 24°36 | 0°37 | 17°44 | 16°21 | 7°18 | 6°53 | 1°21 | n.a. | S 25 |
| S 26 | 0 9 24 | 0♎30'12 | 8♊36 | 15°49 | 24°46 | 21°53 | 16° 3 | 24°41 | 0°39 | 17°45 | 16°21 | 7°14 | 6°50 | 1°28 | n.a. | S 26 |
| M27 | 0 13 21 | 1°30'11 | 21°29 | 17°25 | 26° 1 | 22°26 | 16°11 | 24°45 | 0°42 | 17°46 | 16°21 | 7°13 | 6°47 | 1°34 | n.a. | M27 |
| T 28 | 0 17 17 | 2°30'12 | 3♋58 | 19° 2 | 27°15 | 22°58 | 16°19 | 24°50 | 0°44 | 17°46 | 16°21 | 7°12 | 6°44 | 1°41 | n.a. | T 28 |
| W29 | 0 21 14 | 3°30'15 | 16° 9 | 20°40 | 28°29 | 23°31 | 16°27 | 24°54 | 0°46 | 17°47 | 16°20 | 7°12 | 6°40 | 1°48 | n.a. | W29 |
| T 30 | 0 25 10 | 4♎30'20 | 28♋ 8 | 22♍18 | 29♎44 | 24♋ 4 | 16♐35 | 24♋58 | 0♌48 | 17♋48 | 16♊20 | 7♑11 | 6♑37 | 1♍54 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 9n31 | 23n43 | 0n14 | 6n45 | 2s48 | 3n23 | 0n58 | 24n19 | 0n50 | 22s49 | 0s 8 | 22n19 | 0n31 | 21n 4 | 0n36 | 22n28 | 0s 7 | 20n37 | 2s23 | 23s20 | 23s27 | 8n20 | | n.a. |
| T 2 | 9 9 | 21 27 | 0s51 | 7 26 | 2 31 | 2 51 | 0 56 | 24 18 | 0 51 | 22 49 | 0 8 | 22 18 | 0 31 | 21 3 | 0 36 | 22 28 | 0 7 | 20 37 | 2 23 | 23 20 | 23 27 | 8 17 | | n.a. |
| F 3 | 8 47 | 18 16 | 1 52 | 8 7 | 2 13 | 2 20 | 0 54 | 24 16 | 0 52 | 22 50 | 0 8 | 22 18 | 0 31 | 21 3 | 0 36 | 22 28 | 0 7 | 20 37 | 2 23 | 23 20 | 23 27 | 8 15 | | n.a. |
| S 4 | 8 25 | 14 23 | 2 48 | 8 47 | 1 53 | 1 48 | 0 52 | 24 15 | 0 53 | 22 51 | 0 8 | 22 17 | 0 31 | 21 2 | 0 36 | 22 27 | 0 7 | 20 37 | 2 23 | 23 20 | 23 27 | 8 12 | | n.a. |
| S 5 | 8 2 | 9 57 | 3 36 | 9 25 | 1 33 | 1 16 | 0 50 | 24 13 | 0 54 | 22 51 | 0 8 | 22 16 | 0 31 | 21 1 | 0 36 | 22 27 | 0 7 | 20 37 | 2 23 | 23 21 | 23 28 | 8 9 | | n.a. |
| M 6 | 7 40 | 5 10 | 4 15 | 10 1 | 1 13 | 0 44 | 0 48 | 24 11 | 0 55 | 22 52 | 0 8 | 22 15 | 0 31 | 21 1 | 0 36 | 22 27 | 0 7 | 20 37 | 2 23 | 23 21 | 23 28 | 8 6 | | n.a. |
| T 7 | 7 17 | 0 11 | 4 44 | 10 34 | 0 53 | 0 13 | 0 46 | 24 9 | 0 56 | 22 53 | 0 9 | 22 14 | 0 32 | 21 0 | 0 36 | 22 27 | 0 7 | 20 37 | 2 23 | 23 22 | 23 28 | 8 3 | | n.a. |
| W 8 | 6 54 | 4s49 | 4 59 | 11 2 | 0 33 | 0s19 | 0 44 | 24 7 | 0 56 | 22 53 | 0 9 | 22 13 | 0 32 | 20 59 | 0 36 | 22 27 | 0 7 | 20 37 | 2 23 | 23 23 | 23 28 | 8 0 | | n.a. |
| T 9 | 6 31 | 9 42 | 5 2 | 11 27 | 0 14 | 0 51 | 0 41 | 24 5 | 0 57 | 22 54 | 0 9 | 22 12 | 0 32 | 20 59 | 0 36 | 22 26 | 0 7 | 20 37 | 2 23 | 23 24 | 23 28 | 7 58 | | n.a. |
| F 10 | 6 8 | 14 14 | 4 51 | 11 47 | 0n 4 | 1 23 | 0 39 | 24 3 | 0 58 | 22 55 | 0 9 | 22 11 | 0 32 | 20 58 | 0 36 | 22 26 | 0 7 | 20 37 | 2 23 | 23 25 | 23 29 | 7 55 | | n.a. |
| S 11 | 5 45 | 18 16 | 4 26 | 12 2 | 0 21 | 1 55 | 0 37 | 24 0 | 0 59 | 22 55 | 0 9 | 22 11 | 0 32 | 20 58 | 0 36 | 22 26 | 0 7 | 20 37 | 2 23 | 23 25 | 23 29 | 7 52 | | n.a. |
| S 12 | 5 21 | 21 32 | 3 48 | 12 12 | 0 37 | 2 27 | 0 35 | 23 57 | 1 0 | 22 56 | 0 9 | 22 10 | 0 32 | 20 57 | 0 36 | 22 26 | 0 7 | 20 37 | 2 23 | 23 26 | 23 29 | 7 49 | | n.a. |
| M13 | 4 58 | 23 49 | 2 58 | 12 16 | 0 51 | 2 59 | 0 32 | 23 54 | 1 1 | 22 57 | 0 9 | 22 9 | 0 32 | 20 56 | 0 36 | 22 26 | 0 7 | 20 37 | 2 23 | 23 26 | 23 29 | 7 46 | | n.a. |
| T 14 | 4 35 | 24 52 | 1 58 | 12 17 | 1 4 | 3 30 | 0 30 | 23 52 | 1 2 | 22 58 | 0 9 | 22 8 | 0 32 | 20 56 | 0 36 | 22 26 | 0 7 | 20 37 | 2 23 | 23 26 | 23 29 | 7 43 | | n.a. |
| W15 | 4 11 | 24 31 | 0 49 | 12 12 | 1 16 | 4 2 | 0 27 | 23 48 | 1 3 | 22 59 | 0 9 | 22 7 | 0 33 | 20 55 | 0 36 | 22 26 | 0 7 | 20 37 | 2 23 | 23 26 | 23 30 | 7 40 | | n.a. |
| T 16 | 3 47 | 22 40 | 0n24 | 12 3 | 1 26 | 4 34 | 0 25 | 23 45 | 1 4 | 22 59 | 0 9 | 22 6 | 0 33 | 20 55 | 0 36 | 22 25 | 0 7 | 20 37 | 2 23 | 23 26 | 23 30 | 7 38 | | n.a. |
| F 17 | 3 24 | 19 21 | 1 38 | 11 50 | 1 35 | 5 5 | 0 23 | 23 42 | 1 5 | 23 0 | 0 10 | 22 6 | 0 33 | 20 54 | 0 36 | 22 25 | 0 7 | 20 37 | 2 23 | 23 26 | 23 30 | 7 35 | | n.a. |
| S 18 | 3 0 | 14 44 | 2 47 | 11 33 | 1 42 | 5 37 | 0 20 | 23 39 | 1 6 | 23 1 | 0 10 | 22 5 | 0 33 | 20 54 | 0 36 | 22 25 | 0 7 | 20 37 | 2 23 | 23 26 | 23 30 | 7 32 | | n.a. |
| S 19 | 2 36 | 9 9 | 3 47 | 11 12 | 1 48 | 6 8 | 0 17 | 23 35 | 1 7 | 23 2 | 0 10 | 22 4 | 0 33 | 20 53 | 0 36 | 22 25 | 0 7 | 20 37 | 2 23 | 23 27 | 23 30 | 7 29 | | n.a. |
| M20 | 2 12 | 2 57 | 4 31 | 10 48 | 1 53 | 6 39 | 0 15 | 23 31 | 1 8 | 23 3 | 0 10 | 22 3 | 0 33 | 20 53 | 0 36 | 22 25 | 0 7 | 20 37 | 2 23 | 23 27 | 23 30 | 7 26 | | n.a. |
| T 21 | 1 48 | 3n25 | 4 56 | 10 21 | 1 57 | 7 10 | 0 12 | 23 28 | 1 9 | 23 4 | 0 10 | 22 3 | 0 33 | 20 52 | 0 37 | 22 25 | 0 7 | 20 37 | 2 23 | 23 28 | 23 31 | 7 23 | | n.a. |
| W22 | 1 24 | 9 31 | 5 0 | 9 51 | 1 59 | 7 41 | 0 10 | 23 24 | 1 10 | 23 4 | 0 10 | 22 2 | 0 34 | 20 52 | 0 37 | 22 25 | 0 7 | 20 37 | 2 23 | 23 28 | 23 31 | 7 20 | | n.a. |
| T 23 | 1 0 | 14 57 | 4 44 | 9 19 | 2 1 | 8 12 | 0 7 | 23 20 | 1 11 | 23 5 | 0 10 | 22 1 | 0 34 | 20 51 | 0 37 | 22 24 | 0 7 | 20 37 | 2 23 | 23 29 | 23 31 | 7 18 | | n.a. |
| F 24 | 0 36 | 19 23 | 4 10 | 8 44 | 2 2 | 8 42 | 0 4 | 23 16 | 1 12 | 23 6 | 0 10 | 22 0 | 0 34 | 20 51 | 0 37 | 22 24 | 0 7 | 20 37 | 2 23 | 23 30 | 23 31 | 7 15 | | n.a. |
| S 25 | 0 12 | 22 34 | 3 22 | 8 8 | 2 2 | 9 13 | 0 2 | 23 11 | 1 13 | 23 7 | 0 10 | 22 0 | 0 34 | 20 50 | 0 37 | 22 24 | 0 7 | 20 37 | 2 23 | 23 30 | 23 31 | 7 12 | | n.a. |
| S 26 | 0s12 | 24 22 | 2 25 | 7 31 | 2 1 | 9 43 | 0s 1 | 23 7 | 1 14 | 23 8 | 0 10 | 21 59 | 0 34 | 20 50 | 0 37 | 22 24 | 0 7 | 20 37 | 2 23 | 23 30 | 23 31 | 7 9 | | n.a. |
| M27 | 0 36 | 24 48 | 1 22 | 6 51 | 2 0 | 10 13 | 0 4 | 23 3 | 1 15 | 23 9 | 0 10 | 21 58 | 0 34 | 20 49 | 0 37 | 22 24 | 0 7 | 20 37 | 2 23 | 23 30 | 23 32 | 7 6 | | n.a. |
| T 28 | 1 0 | 23 56 | 0 17 | 6 11 | 1 57 | 10 42 | 0 6 | 22 58 | 1 16 | 23 10 | 0 11 | 21 58 | 0 34 | 20 49 | 0 37 | 22 24 | 0 7 | 20 37 | 2 23 | 23 30 | 23 32 | 7 3 | | n.a. |
| W29 | 1 24 | 21 56 | 0s47 | 5 30 | 1 55 | 11 12 | 0 9 | 22 53 | 1 17 | 23 11 | 0 11 | 21 57 | 0 35 | 20 48 | 0 37 | 22 24 | 0 7 | 20 37 | 2 23 | 23 30 | 23 32 | 7 0 | | n.a. |
| T 30 | 1s49 | 19n 0 | 1s48 | 4n47 | 1n52 | 11s41 | 0s12 | 22n49 | 1n18 | 23s12 | 0s11 | 21n56 | 0n35 | 20n48 | 0n37 | 22n24 | 0s 7 | 20n37 | 2s23 | 23s30 | 23s32 | 6n58 | | n.a. |

Julian Day Number = 1700847.5, Delta T = 03h05m39s
Ecliptic obliquity = 23°42'08, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°50'29, Lahiri = - 4°43'28 Julian Calendar 1 Sept. 57 BCE == Greg. Calendar 30 Aug. 057 BCE

The year -56 astronomical counting style corresponds to year 057 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 57 BCE
# geocentric

## OCTOBER 57 BCE (-56) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 0 29 7 | 5♎30'28 | 9♌59 | 23♍57 | 0♏58 | 24♋36 | 16♐44 | 25♋ 2 | 0♌50 | 17♋49 | 16°R20 | 7°R 8 | 6♑34 | 2♍ 1 | n.a. | F 1 |
| S 2 | 0 33 4 | 6°30'38 | 21°48 | 25°37 | 2°12 | 25° 9 | 16°52 | 25° 6 | 0°52 | 17°50 | 16♊20 | 7♑ 2 | 6°31 | 2° 8 | n.a. | S 2 |
| S 3 | 0 37 0 | 7°30'49 | 3♍37 | 27°16 | 3°26 | 25°41 | 17° 1 | 25°10 | 0°54 | 17°50 | 16°19 | 6°52 | 6°28 | 2°15 | n.a. | S 3 |
| M 4 | 0 40 57 | 8°31'03 | 15°31 | 28°55 | 4°41 | 26°13 | 17°10 | 25°14 | 0°56 | 17°51 | 16°19 | 6°41 | 6°25 | 2°21 | n.a. | M 4 |
| T 5 | 0 44 53 | 9°31'19 | 27°31 | 0♎35 | 5°55 | 26°45 | 17°19 | 25°18 | 0°58 | 17°52 | 16°19 | 6°27 | 6°21 | 2°28 | n.a. | T 5 |
| W 6 | 0 48 50 | 10°31'37 | 9♎38 | 2°14 | 7° 9 | 27°17 | 17°28 | 25°22 | 1° 0 | 17°52 | 16°18 | 6°12 | 6°18 | 2°35 | n.a. | W 6 |
| T 7 | 0 52 46 | 11°31'56 | 21°54 | 3°53 | 8°23 | 27°48 | 17°37 | 25°25 | 1° 2 | 17°53 | 16°18 | 5°58 | 6°15 | 2°41 | n.a. | T 7 |
| F 8 | 0 56 43 | 12°32'18 | 4♏20 | 5°32 | 9°38 | 28°20 | 17°47 | 25°29 | 1° 4 | 17°53 | 16°17 | 5°45 | 6°12 | 2°48 | n.a. | F 8 |
| S 9 | 1 0 39 | 13°32'41 | 16°54 | 7°11 | 10°52 | 28°51 | 17°56 | 25°32 | 1° 5 | 17°54 | 16°17 | 5°35 | 6° 9 | 2°55 | n.a. | S 9 |
| S 10 | 1 4 36 | 14°33'06 | 29°39 | 8°49 | 12° 6 | 29°22 | 18° 6 | 25°35 | 1° 7 | 17°54 | 16°16 | 5°27 | 6° 5 | 3° 1 | n.a. | S 10 |
| M11 | 1 8 33 | 15°33'33 | 12♐36 | 10°27 | 13°20 | 29°53 | 18°15 | 25°39 | 1° 9 | 17°55 | 16°16 | 5°23 | 6° 2 | 3° 8 | n.a. | M11 |
| T 12 | 1 12 29 | 16°34'01 | 25°46 | 12° 5 | 14°34 | 0♌24 | 18°25 | 25°42 | 1°10 | 17°55 | 16°15 | 5°21 | 5°59 | 3°15 | n.a. | T 12 |
| W13 | 1 16 26 | 17°34'30 | 9♑11 | 13°42 | 15°48 | 0°55 | 18°35 | 25°45 | 1°12 | 17°55 | 16°15 | 5°D21 | 5°56 | 3°22 | n.a. | W13 |
| T 14 | 1 20 22 | 18°35'01 | 22°54 | 15°19 | 17° 3 | 1°26 | 18°45 | 25°48 | 1°13 | 17°56 | 16°14 | 5°R21 | 5°53 | 3°28 | n.a. | T 14 |
| F 15 | 1 24 19 | 19°35'33 | 6♒56 | 16°56 | 18°17 | 1°56 | 18°56 | 25°50 | 1°14 | 17°56 | 16°14 | 5°20 | 5°50 | 3°35 | n.a. | F 15 |
| S 16 | 1 28 15 | 20°36'07 | 21°17 | 18°33 | 19°31 | 2°26 | 19° 6 | 25°53 | 1°16 | 17°56 | 16°13 | 5°17 | 5°46 | 3°42 | n.a. | S 16 |
| S 17 | 1 32 12 | 21°36'42 | 5♓55 | 20° 9 | 20°45 | 2°56 | 19°16 | 25°56 | 1°17 | 17°57 | 16°12 | 5°11 | 5°43 | 3°48 | n.a. | S 17 |
| M18 | 1 36 8 | 22°37'18 | 20°44 | 21°45 | 21°59 | 3°26 | 19°27 | 25°58 | 1°18 | 17°57 | 16°12 | 5° 3 | 5°40 | 3°55 | n.a. | M18 |
| T 19 | 1 40 5 | 23°37'55 | 5♈38 | 23°20 | 23°13 | 3°56 | 19°37 | 26° 1 | 1°19 | 17°57 | 16°11 | 4°52 | 5°37 | 4° 2 | n.a. | T 19 |
| W20 | 1 44 2 | 24°38'34 | 20°27 | 24°56 | 24°27 | 4°26 | 19°48 | 26° 3 | 1°21 | 17°57 | 16°10 | 4°41 | 5°34 | 4° 8 | n.a. | W20 |
| T 21 | 1 47 58 | 25°39'15 | 5♉ 4 | 26°31 | 25°41 | 4°55 | 19°59 | 26° 5 | 1°22 | 17°57 | 16°10 | 4°31 | 5°31 | 4°15 | n.a. | T 21 |
| F 22 | 1 51 55 | 26°39'57 | 19°20 | 28° 6 | 26°55 | 5°24 | 20°10 | 26° 7 | 1°23 | 17°57 | 16° 9 | 4°22 | 5°27 | 4°22 | n.a. | F 22 |
| S 23 | 1 55 51 | 27°40'41 | 3♊11 | 29°41 | 28° 9 | 5°53 | 20°21 | 26° 9 | 1°24 | 17°R57 | 16° 8 | 4°15 | 5°24 | 4°29 | n.a. | S 23 |
| S 24 | 1 59 48 | 28°41'26 | 16°34 | 1♏15 | 29°23 | 6°22 | 20°32 | 26°11 | 1°25 | 17°57 | 16° 7 | 4°11 | 5°21 | 4°35 | n.a. | S 24 |
| M25 | 2 3 44 | 29°42'14 | 29°31 | 2°49 | 0♐37 | 6°51 | 20°43 | 26°13 | 1°25 | 17°57 | 16° 7 | 4°D10 | 5°18 | 4°42 | n.a. | M25 |
| T 26 | 2 7 41 | 0♏43'02 | 12♋ 5 | 4°23 | 1°50 | 7°19 | 20°55 | 26°14 | 1°26 | 17°57 | 16° 6 | 4°10 | 5°15 | 4°49 | n.a. | T 26 |
| W27 | 2 11 37 | 1°43'53 | 24°20 | 5°57 | 3° 4 | 7°47 | 21° 6 | 26°16 | 1°27 | 17°57 | 16° 5 | 4°11 | 5°11 | 4°55 | n.a. | W27 |
| T 28 | 2 15 34 | 2°44'44 | 6♌21 | 7°31 | 4°18 | 8°15 | 21°18 | 26°17 | 1°28 | 17°57 | 16° 4 | 4°R11 | 5° 8 | 5° 2 | n.a. | T 28 |
| F 29 | 2 19 31 | 3°45'38 | 18°14 | 9° 5 | 5°32 | 8°43 | 21°29 | 26°19 | 1°28 | 17°57 | 16° 3 | 4°10 | 5° 5 | 5° 9 | n.a. | F 29 |
| S 30 | 2 23 27 | 4°46'33 | 0♍ 4 | 10°39 | 6°46 | 9°11 | 21°41 | 26°20 | 1°29 | 17°56 | 16° 2 | 4° 6 | 5° 2 | 5°15 | n.a. | S 30 |
| S 31 | 2 27 24 | 5♏47'29 | 11♍55 | 12♏12 | 8♐ 0 | 9♌38 | 21♐53 | 26♋21 | 1♌29 | 17♋56 | 16♊ 1 | 4♑ 0 | 4♑59 | 5♍22 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 2s13 | 15n18 | 2s44 | 4n 5 | 1n48 | 12s10 | 0s15 | 22n44 | 1n19 | 23s13 | 0s11 | 21n56 | 0n35 | 20n47 | 0n37 | 22n24 | 0s 7 | 20n37 | 2s23 | 23s30 | 23s32 | 6n55 | | n.a. |
| S 2 | 2 37 | 11 3 | 3 32 | 3 21 | 1 44 | 12 39 | 0 17 | 22 39 | 1 20 | 23 14 | 0 11 | 21 55 | 0 35 | 20 47 | 0 37 | 22 23 | 0 7 | 20 37 | 2 23 | 23 31 | 23 32 | 6 52 | | n.a. |
| S 3 | 3 1 | 6 23 | 4 11 | 2 37 | 1 39 | 13 7 | 0 20 | 22 34 | 1 21 | 23 15 | 0 11 | 21 55 | 0 35 | 20 47 | 0 37 | 22 23 | 0 7 | 20 37 | 2 23 | 23 31 | 23 33 | 6 49 | | n.a. |
| M 4 | 3 25 | 1 29 | 4 40 | 1 53 | 1 35 | 13 35 | 0 23 | 22 29 | 1 22 | 23 16 | 0 11 | 21 54 | 0 35 | 20 46 | 0 37 | 22 23 | 0 7 | 20 37 | 2 23 | 23 32 | 23 33 | 6 46 | | n.a. |
| T 5 | 3 49 | 3s31 | 4 56 | 1 8 | 1 30 | 14 3 | 0 26 | 22 24 | 1 23 | 23 17 | 0 11 | 21 54 | 0 35 | 20 46 | 0 37 | 22 23 | 0 7 | 20 37 | 2 23 | 23 33 | 23 33 | 6 43 | | n.a. |
| W 6 | 4 13 | 8 26 | 4 59 | 0 23 | 1 24 | 14 30 | 0 28 | 22 19 | 1 24 | 23 18 | 0 11 | 21 53 | 0 36 | 20 45 | 0 37 | 22 23 | 0 7 | 20 37 | 2 23 | 23 33 | 23 33 | 6 40 | | n.a. |
| T 7 | 4 37 | 13 4 | 4 48 | 0s21 | 1 19 | 14 57 | 0 31 | 22 13 | 1 25 | 23 18 | 0 11 | 21 52 | 0 36 | 20 45 | 0 37 | 22 23 | 0 7 | 20 37 | 2 23 | 23 34 | 23 33 | 6 38 | | n.a. |
| F 8 | 5 0 | 17 14 | 4 24 | 1 6 | 1 13 | 15 23 | 0 34 | 22 8 | 1 26 | 23 19 | 0 11 | 21 52 | 0 36 | 20 45 | 0 37 | 22 23 | 0 7 | 20 37 | 2 23 | 23 35 | 23 33 | 6 35 | | n.a. |
| S 9 | 5 24 | 20 40 | 3 46 | 1 51 | 1 7 | 15 50 | 0 37 | 22 3 | 1 28 | 23 20 | 0 12 | 21 51 | 0 36 | 20 44 | 0 37 | 22 23 | 0 7 | 20 37 | 2 23 | 23 35 | 23 33 | 6 32 | | n.a. |
| S 10 | 5 48 | 23 10 | 2 57 | 2 36 | 1 1 | 16 16 | 0 39 | 21 57 | 1 29 | 23 21 | 0 12 | 21 51 | 0 36 | 20 44 | 0 37 | 22 23 | 0 7 | 20 37 | 2 23 | 23 35 | 23 34 | 6 29 | | n.a. |
| M11 | 6 11 | 24 30 | 1 57 | 3 20 | 0 55 | 16 41 | 0 42 | 21 51 | 1 30 | 23 22 | 0 12 | 21 51 | 0 36 | 20 44 | 0 37 | 22 23 | 0 7 | 20 37 | 2 23 | 23 35 | 23 34 | 6 26 | | n.a. |
| T 12 | 6 35 | 24 29 | 0 51 | 4 5 | 0 49 | 17 6 | 0 45 | 21 46 | 1 31 | 23 23 | 0 12 | 21 50 | 0 37 | 20 43 | 0 37 | 22 23 | 0 7 | 20 37 | 2 23 | 23 36 | 23 34 | 6 23 | | n.a. |
| W13 | 6 58 | 23 2 | 0n20 | 4 49 | 0 42 | 17 31 | 0 48 | 21 40 | 1 32 | 23 24 | 0 12 | 21 50 | 0 37 | 20 43 | 0 37 | 22 23 | 0 7 | 20 37 | 2 23 | 23 36 | 23 34 | 6 20 | | n.a. |
| T 14 | 7 22 | 20 14 | 1 32 | 5 33 | 0 36 | 17 55 | 0 50 | 21 35 | 1 33 | 23 25 | 0 12 | 21 49 | 0 37 | 20 43 | 0 37 | 22 23 | 0 7 | 20 37 | 2 23 | 23 36 | 23 34 | 6 18 | | n.a. |
| F 15 | 7 45 | 16 11 | 2 39 | 6 16 | 0 29 | 18 18 | 0 53 | 21 29 | 1 34 | 23 26 | 0 12 | 21 49 | 0 37 | 20 43 | 0 37 | 22 23 | 0 7 | 20 37 | 2 23 | 23 36 | 23 34 | 6 15 | | n.a. |
| S 16 | 8 8 | 11 7 | 3 38 | 7 0 | 0 23 | 18 41 | 0 56 | 21 23 | 1 36 | 23 27 | 0 12 | 21 49 | 0 37 | 20 42 | 0 37 | 22 23 | 0 7 | 20 37 | 2 23 | 23 36 | 23 34 | 6 12 | | n.a. |
| S 17 | 8 31 | 5 22 | 4 24 | 7 43 | 0 16 | 19 4 | 0 58 | 21 17 | 1 37 | 23 28 | 0 12 | 21 48 | 0 37 | 20 42 | 0 37 | 22 23 | 0 7 | 20 37 | 2 23 | 23 36 | 23 35 | 6 9 | | n.a. |
| M18 | 8 54 | 0n46 | 4 52 | 8 25 | 0 10 | 19 26 | 1 1 | 21 11 | 1 38 | 23 29 | 0 12 | 21 48 | 0 38 | 20 42 | 0 38 | 22 23 | 0 7 | 20 37 | 2 23 | 23 36 | 23 35 | 6 6 | | n.a. |
| T 19 | 9 16 | 6 52 | 5 2 | 9 7 | 0 3 | 19 48 | 1 3 | 21 5 | 1 39 | 23 30 | 0 12 | 21 48 | 0 38 | 20 42 | 0 38 | 22 23 | 0 7 | 20 36 | 2 23 | 23 37 | 23 35 | 6 3 | | n.a. |
| W20 | 9 39 | 12 33 | 4 50 | 9 49 | 0s 4 | 20 9 | 1 6 | 20 59 | 1 40 | 23 31 | 0 13 | 21 47 | 0 38 | 20 41 | 0 38 | 22 23 | 0 6 | 20 36 | 2 23 | 23 37 | 23 35 | 6 0 | | n.a. |
| T 21 | 10 1 | 17 26 | 4 20 | 10 30 | 0 10 | 20 30 | 1 8 | 20 53 | 1 42 | 23 32 | 0 13 | 21 47 | 0 38 | 20 41 | 0 38 | 22 23 | 0 6 | 20 36 | 2 23 | 23 37 | 23 35 | 5 58 | | n.a. |
| F 22 | 10 24 | 21 11 | 3 34 | 11 10 | 0 17 | 20 50 | 1 11 | 20 47 | 1 43 | 23 33 | 0 13 | 21 47 | 0 38 | 20 41 | 0 38 | 22 23 | 0 6 | 20 36 | 2 23 | 23 38 | 23 35 | 5 55 | | n.a. |
| S 23 | 10 46 | 23 35 | 2 37 | 11 50 | 0 23 | 21 9 | 1 13 | 20 41 | 1 44 | 23 34 | 0 13 | 21 47 | 0 38 | 20 41 | 0 38 | 22 23 | 0 6 | 20 36 | 2 23 | 23 38 | 23 35 | 5 52 | | n.a. |
| S 24 | 11 8 | 24 33 | 1 32 | 12 30 | 0 30 | 21 28 | 1 16 | 20 35 | 1 45 | 23 34 | 0 13 | 21 47 | 0 39 | 20 41 | 0 38 | 22 23 | 0 6 | 20 36 | 2 23 | 23 38 | 23 36 | 5 49 | | n.a. |
| M25 | 11 29 | 24 7 | 0 25 | 13 9 | 0 36 | 21 46 | 1 18 | 20 29 | 1 47 | 23 35 | 0 13 | 21 46 | 0 39 | 20 41 | 0 38 | 22 23 | 0 6 | 20 36 | 2 23 | 23 38 | 23 36 | 5 46 | | n.a. |
| T 26 | 11 51 | 22 27 | 0s42 | 13 47 | 0 42 | 22 4 | 1 20 | 20 23 | 1 48 | 23 36 | 0 13 | 21 46 | 0 39 | 20 40 | 0 38 | 22 23 | 0 6 | 20 36 | 2 23 | 23 38 | 23 36 | 5 43 | | n.a. |
| W27 | 12 12 | 19 45 | 1 46 | 14 25 | 0 48 | 22 21 | 1 23 | 20 17 | 1 49 | 23 37 | 0 13 | 21 46 | 0 39 | 20 40 | 0 38 | 22 23 | 0 6 | 20 36 | 2 23 | 23 38 | 23 36 | 5 40 | | n.a. |
| T 28 | 12 34 | 16 16 | 2 43 | 15 2 | 0 54 | 22 37 | 1 25 | 20 11 | 1 50 | 23 38 | 0 13 | 21 46 | 0 39 | 20 40 | 0 38 | 22 23 | 0 6 | 20 36 | 2 23 | 23 38 | 23 36 | 5 38 | | n.a. |
| F 29 | 12 55 | 12 10 | 3 33 | 15 38 | 1 0 | 22 53 | 1 27 | 20 4 | 1 52 | 23 39 | 0 13 | 21 46 | 0 39 | 20 40 | 0 38 | 22 23 | 0 6 | 20 36 | 2 23 | 23 38 | 23 36 | 5 35 | | n.a. |
| S 30 | 13 15 | 7 38 | 4 13 | 16 14 | 1 6 | 23 8 | 1 29 | 19 58 | 1 53 | 23 40 | 0 13 | 21 46 | 0 40 | 20 40 | 0 38 | 22 23 | 0 6 | 20 36 | 2 23 | 23 38 | 23 36 | 5 32 | | n.a. |
| S 31 | 13s36 | 2n49 | 4s43 | 16s48 | 1s12 | 23s23 | 1s31 | 19n52 | 1n54 | 23s40 | 0s13 | 21n46 | 0n40 | 20n40 | 0n38 | 22n23 | 0s 6 | 20n36 | 2s23 | 23s38 | 23s36 | 5n29 | | n.a. |

Julian Day Number = 1700877.5, Delta T = 03h05m38s
Ecliptic obliquity = 23°42'08, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°50'25, Lahiri = - 4°43'24 Julian Calendar 1 Oct. 57 BCE == Greg. Calendar 29 Sept. 057 BCE

The year -56 astronomical counting style corresponds to year 057 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 57 BCE
# geocentric

## NOVEMBER 57 BCE (-56) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 2 31 20 | 6♏48'27 | 23♍52 | 13♏46 | 9♐13 | 10♌ 5 | 22♐ 4 | 26♋22 | 1♌30 | 17°R56 | 16°R 1 | 3°R52 | 4♑56 | 5♍29 | n.a. | M 1 |
| T 2 | 2 35 17 | 7°49'26 | 5♎58 | 15°19 | 10°27 | 10°32 | 22°16 | 26°23 | 1°30 | 17♋56 | 16♊ 0 | 3♑42 | 4°52 | 5°36 | n.a. | T 2 |
| W 3 | 2 39 13 | 8°50'26 | 18°14 | 16°53 | 11°41 | 10°59 | 22°28 | 26°23 | 1°31 | 17°55 | 15°59 | 3°31 | 4°49 | 5°42 | n.a. | W 3 |
| T 4 | 2 43 10 | 9°51'28 | 0♏44 | 18°26 | 12°55 | 11°25 | 22°40 | 26°24 | 1°31 | 17°55 | 15°58 | 3°20 | 4°46 | 5°49 | n.a. | T 4 |
| F 5 | 2 47 6 | 10°52'30 | 13°26 | 19°59 | 14° 8 | 11°51 | 22°53 | 26°25 | 1°31 | 17°54 | 15°57 | 3°11 | 4°43 | 5°56 | n.a. | F 5 |
| S 6 | 2 51 3 | 11°53'34 | 26°20 | 21°32 | 15°22 | 12°17 | 23° 5 | 26°25 | 1°31 | 17°54 | 15°56 | 3° 3 | 4°40 | 6° 2 | n.a. | S 6 |
| S 7 | 2 55 0 | 12°54'39 | 9♐26 | 23° 5 | 16°36 | 12°43 | 23°17 | 26°25 | 1°32 | 17°54 | 15°55 | 2°58 | 4°36 | 6° 9 | n.a. | S 7 |
| M 8 | 2 58 56 | 13°55'44 | 22°43 | 24°38 | 17°49 | 13° 8 | 23°30 | 26°26 | 1°32 | 17°53 | 15°54 | 2°55 | 4°33 | 6°16 | n.a. | M 8 |
| T 9 | 3 2 53 | 14°56'51 | 6♑10 | 26°11 | 19° 3 | 13°33 | 23°42 | 26°R26 | 1°R32 | 17°52 | 15°53 | 2°D55 | 4°30 | 6°23 | n.a. | T 9 |
| W10 | 3 6 49 | 15°57'58 | 19°48 | 27°44 | 20°16 | 13°58 | 23°55 | 26°26 | 1°32 | 17°52 | 15°52 | 2°56 | 4°27 | 6°29 | n.a. | W10 |
| T 11 | 3 10 46 | 16°59'05 | 3♒37 | 29°17 | 21°30 | 14°23 | 24° 7 | 26°25 | 1°32 | 17°51 | 15°50 | 2°57 | 4°24 | 6°36 | n.a. | T 11 |
| F 12 | 3 14 42 | 18° 0'13 | 17°36 | 0♐49 | 22°43 | 14°47 | 24°20 | 26°25 | 1°31 | 17°51 | 15°49 | 2°R58 | 4°21 | 6°43 | n.a. | F 12 |
| S 13 | 3 18 39 | 19° 1'21 | 1♓45 | 2°22 | 23°57 | 15°11 | 24°33 | 26°25 | 1°31 | 17°50 | 15°48 | 2°57 | 4°17 | 6°49 | n.a. | S 13 |
| S 14 | 3 22 35 | 20° 2'30 | 16° 3 | 3°54 | 25°10 | 15°35 | 24°46 | 26°24 | 1°31 | 17°49 | 15°47 | 2°54 | 4°14 | 6°56 | n.a. | S 14 |
| M15 | 3 26 32 | 21° 3'39 | 0♈26 | 5°26 | 26°23 | 15°58 | 24°58 | 26°24 | 1°31 | 17°48 | 15°46 | 2°50 | 4°11 | 7° 3 | n.a. | M15 |
| T 16 | 3 30 29 | 22° 4'49 | 14°52 | 6°57 | 27°37 | 16°21 | 25°11 | 26°23 | 1°30 | 17°48 | 15°45 | 2°44 | 4° 8 | 7°10 | n.a. | T 16 |
| W17 | 3 34 25 | 23° 5'58 | 29°13 | 8°28 | 28°50 | 16°44 | 25°24 | 26°22 | 1°30 | 17°47 | 15°44 | 2°37 | 4° 5 | 7°16 | n.a. | W17 |
| T 18 | 3 38 22 | 24° 7'09 | 13♉25 | 9°58 | 0♑ 3 | 17° 6 | 25°37 | 26°21 | 1°29 | 17°46 | 15°43 | 2°31 | 4° 2 | 7°23 | n.a. | T 18 |
| F 19 | 3 42 18 | 25° 8'20 | 27°22 | 11°28 | 1°16 | 17°28 | 25°51 | 26°20 | 1°29 | 17°45 | 15°42 | 2°25 | 3°58 | 7°30 | n.a. | F 19 |
| S 20 | 3 46 15 | 26° 9'31 | 11♊ 0 | 12°57 | 2°29 | 17°50 | 26° 4 | 26°19 | 1°28 | 17°44 | 15°40 | 2°22 | 3°55 | 7°36 | n.a. | S 20 |
| S 21 | 3 50 11 | 27°10'43 | 24°17 | 14°25 | 3°43 | 18°12 | 26°17 | 26°18 | 1°28 | 17°43 | 15°39 | 2°20 | 3°52 | 7°43 | n.a. | S 21 |
| M22 | 3 54 8 | 28°11'56 | 7♋13 | 15°51 | 4°56 | 18°33 | 26°30 | 26°16 | 1°27 | 17°42 | 15°38 | 2°D20 | 3°49 | 7°50 | n.a. | M22 |
| T 23 | 3 58 4 | 29°13'09 | 19°48 | 17°16 | 6° 8 | 18°54 | 26°44 | 26°15 | 1°26 | 17°41 | 15°37 | 2°21 | 3°46 | 7°56 | n.a. | T 23 |
| W24 | 4 2 1 | 0♐14'23 | 2♌ 5 | 18°40 | 7°21 | 19°14 | 26°57 | 26°13 | 1°25 | 17°40 | 15°36 | 2°22 | 3°42 | 8° 3 | n.a. | W24 |
| T 25 | 4 5 58 | 1°15'37 | 14° 9 | 20° 1 | 8°34 | 19°34 | 27°10 | 26°12 | 1°24 | 17°39 | 15°34 | 2°24 | 3°39 | 8°10 | n.a. | T 25 |
| F 26 | 4 9 54 | 2°16'52 | 26° 5 | 21°19 | 9°47 | 19°54 | 27°24 | 26°10 | 1°24 | 17°38 | 15°33 | 2°25 | 3°36 | 8°17 | n.a. | F 26 |
| S 27 | 4 13 51 | 3°18'07 | 7♍56 | 22°35 | 11° 0 | 20°13 | 27°37 | 26° 8 | 1°23 | 17°37 | 15°32 | 2°R25 | 3°33 | 8°23 | n.a. | S 27 |
| S 28 | 4 17 47 | 4°19'22 | 19°49 | 23°47 | 12°13 | 20°32 | 27°51 | 26° 6 | 1°22 | 17°36 | 15°31 | 2°24 | 3°30 | 8°30 | n.a. | S 28 |
| M29 | 4 21 44 | 5°20'38 | 1♎47 | 24°56 | 13°25 | 20°50 | 28° 5 | 26° 4 | 1°20 | 17°35 | 15°30 | 2°22 | 3°27 | 8°37 | n.a. | M29 |
| T 30 | 4 25 40 | 6♐21'55 | 13♎55 | 25♐59 | 14♑38 | 21♌ 8 | 28♐18 | 26♋ 2 | 1♌19 | 17♋34 | 15♊28 | 2♑18 | 3♑23 | 8♍43 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 13s56 | 2s 7 | 5s 0 | 17s22 | 1s18 | 23s37 | 1s33 | 19n46 | 1n56 | 23s41 | 0s14 | 21n46 | 0n40 | 20n40 | 0n38 | 22n23 | 0s 6 | 20n36 | 2s23 | 23s39 | 23s37 | 5n26 | | n.a. |
| T 2 | 14 16 | 7 2 | 5 4 | 17 56 | 1 23 | 23 50 | 1 35 | 19 40 | 1 57 | 23 42 | 0 14 | 21 46 | 0 40 | 20 40 | 0 38 | 22 23 | 0 6 | 20 36 | 2 23 | 23 39 | 23 37 | 5 23 | | n.a. |
| W 3 | 14 36 | 11 46 | 4 55 | 18 28 | 1 28 | 24 2 | 1 37 | 19 34 | 1 58 | 23 43 | 0 14 | 21 46 | 0 40 | 20 40 | 0 38 | 22 23 | 0 6 | 20 35 | 2 23 | 23 39 | 23 37 | 5 20 | | n.a. |
| T 4 | 14 56 | 16 4 | 4 31 | 19 0 | 1 33 | 24 14 | 1 39 | 19 28 | 2 0 | 23 44 | 0 14 | 21 46 | 0 40 | 20 40 | 0 38 | 22 23 | 0 6 | 20 35 | 2 23 | 23 40 | 23 37 | 5 18 | | n.a. |
| F 5 | 15 15 | 19 45 | 3 54 | 19 30 | 1 38 | 24 25 | 1 41 | 19 22 | 2 1 | 23 44 | 0 14 | 21 46 | 0 41 | 20 40 | 0 38 | 22 23 | 0 6 | 20 35 | 2 23 | 23 40 | 23 37 | 5 15 | | n.a. |
| S 6 | 15 34 | 22 31 | 3 4 | 20 0 | 1 43 | 24 35 | 1 43 | 19 16 | 2 3 | 23 45 | 0 14 | 21 46 | 0 41 | 20 40 | 0 38 | 22 23 | 0 6 | 20 35 | 2 23 | 23 40 | 23 37 | 5 12 | | n.a. |
| S 7 | 15 53 | 24 8 | 2 3 | 20 28 | 1 47 | 24 45 | 1 44 | 19 10 | 2 4 | 23 46 | 0 14 | 21 46 | 0 41 | 20 40 | 0 38 | 22 23 | 0 6 | 20 35 | 2 23 | 23 40 | 23 37 | 5 9 | | n.a. |
| M 8 | 16 12 | 24 25 | 0 55 | 20 56 | 1 51 | 24 54 | 1 46 | 19 4 | 2 5 | 23 47 | 0 14 | 21 46 | 0 41 | 20 40 | 0 38 | 22 23 | 0 6 | 20 35 | 2 22 | 23 40 | 23 37 | 5 6 | | n.a. |
| T 9 | 16 30 | 23 16 | 0n18 | 21 23 | 1 55 | 25 2 | 1 47 | 18 58 | 2 7 | 23 47 | 0 14 | 21 46 | 0 41 | 20 40 | 0 38 | 22 23 | 0 6 | 20 35 | 2 22 | 23 40 | 23 37 | 5 3 | | n.a. |
| W10 | 16 48 | 20 44 | 1 30 | 21 48 | 1 59 | 25 9 | 1 49 | 18 52 | 2 8 | 23 48 | 0 14 | 21 47 | 0 41 | 20 40 | 0 38 | 22 23 | 0 6 | 20 35 | 2 22 | 23 40 | 23 38 | 5 0 | | n.a. |
| T 11 | 17 6 | 17 0 | 2 38 | 22 12 | 2 2 | 25 16 | 1 50 | 18 46 | 2 10 | 23 49 | 0 14 | 21 47 | 0 42 | 20 40 | 0 39 | 22 24 | 0 6 | 20 35 | 2 22 | 23 40 | 23 38 | 4 58 | | n.a. |
| F 12 | 17 23 | 12 16 | 3 38 | 22 35 | 2 5 | 25 22 | 1 52 | 18 40 | 2 11 | 23 49 | 0 14 | 21 47 | 0 42 | 20 40 | 0 39 | 22 24 | 0 6 | 20 35 | 2 22 | 23 40 | 23 38 | 4 55 | | n.a. |
| S 13 | 17 40 | 6 51 | 4 25 | 22 57 | 2 8 | 25 27 | 1 53 | 18 34 | 2 13 | 23 50 | 0 15 | 21 47 | 0 42 | 20 40 | 0 39 | 22 24 | 0 6 | 20 35 | 2 22 | 23 40 | 23 38 | 4 52 | | n.a. |
| S 14 | 17 57 | 1 1 | 4 56 | 23 17 | 2 10 | 25 31 | 1 54 | 18 29 | 2 14 | 23 50 | 0 15 | 21 47 | 0 42 | 20 40 | 0 39 | 22 24 | 0 6 | 20 35 | 2 22 | 23 40 | 23 38 | 4 49 | | n.a. |
| M15 | 18 13 | 4n53 | 5 9 | 23 36 | 2 12 | 25 34 | 1 55 | 18 23 | 2 16 | 23 51 | 0 15 | 21 48 | 0 42 | 20 40 | 0 39 | 22 24 | 0 6 | 20 34 | 2 22 | 23 40 | 23 38 | 4 46 | | n.a. |
| T 16 | 18 29 | 10 33 | 5 2 | 23 54 | 2 14 | 25 37 | 1 56 | 18 17 | 2 17 | 23 52 | 0 15 | 21 48 | 0 42 | 20 40 | 0 39 | 22 24 | 0 6 | 20 34 | 2 22 | 23 40 | 23 38 | 4 43 | | n.a. |
| W17 | 18 45 | 15 37 | 4 37 | 24 10 | 2 15 | 25 39 | 1 57 | 18 12 | 2 19 | 23 52 | 0 15 | 21 48 | 0 43 | 20 40 | 0 39 | 22 24 | 0 6 | 20 34 | 2 22 | 23 41 | 23 38 | 4 40 | | n.a. |
| T 18 | 19 0 | 19 45 | 3 54 | 24 25 | 2 15 | 25 40 | 1 58 | 18 6 | 2 21 | 23 53 | 0 15 | 21 49 | 0 43 | 20 41 | 0 39 | 22 24 | 0 6 | 20 34 | 2 22 | 23 41 | 23 38 | 4 38 | | n.a. |
| F 19 | 19 16 | 22 41 | 2 59 | 24 38 | 2 15 | 25 41 | 1 59 | 18 1 | 2 22 | 23 53 | 0 15 | 21 49 | 0 43 | 20 41 | 0 39 | 22 24 | 0 6 | 20 34 | 2 22 | 23 41 | 23 38 | 4 35 | | n.a. |
| S 20 | 19 30 | 24 13 | 1 54 | 24 50 | 2 15 | 25 41 | 2 0 | 17 56 | 2 24 | 23 54 | 0 15 | 21 49 | 0 43 | 20 41 | 0 39 | 22 25 | 0 6 | 20 34 | 2 22 | 23 41 | 23 39 | 4 32 | | n.a. |
| S 21 | 19 45 | 24 18 | 0 44 | 25 0 | 2 14 | 25 39 | 2 1 | 17 51 | 2 25 | 23 54 | 0 15 | 21 50 | 0 43 | 20 41 | 0 39 | 22 25 | 0 6 | 20 34 | 2 22 | 23 41 | 23 39 | 4 29 | | n.a. |
| M22 | 19 59 | 23 4 | 0s27 | 25 8 | 2 12 | 25 38 | 2 1 | 17 46 | 2 27 | 23 55 | 0 15 | 21 50 | 0 43 | 20 41 | 0 39 | 22 25 | 0 6 | 20 34 | 2 22 | 23 41 | 23 39 | 4 26 | | n.a. |
| T 23 | 20 12 | 20 40 | 1 34 | 25 14 | 2 10 | 25 35 | 2 2 | 17 41 | 2 29 | 23 55 | 0 15 | 21 51 | 0 44 | 20 42 | 0 39 | 22 25 | 0 6 | 20 34 | 2 22 | 23 41 | 23 39 | 4 23 | | n.a. |
| W24 | 20 25 | 17 23 | 2 36 | 25 19 | 2 6 | 25 32 | 2 2 | 17 36 | 2 30 | 23 55 | 0 16 | 21 51 | 0 44 | 20 42 | 0 39 | 22 25 | 0 6 | 20 34 | 2 22 | 23 41 | 23 39 | 4 20 | | n.a. |
| T 25 | 20 38 | 13 26 | 3 29 | 25 21 | 2 3 | 25 27 | 2 2 | 17 31 | 2 32 | 23 56 | 0 16 | 21 52 | 0 44 | 20 42 | 0 39 | 22 25 | 0 6 | 20 34 | 2 22 | 23 41 | 23 39 | 4 18 | | n.a. |
| F 26 | 20 51 | 9 0 | 4 13 | 25 22 | 1 58 | 25 22 | 2 3 | 17 26 | 2 34 | 23 56 | 0 16 | 21 52 | 0 44 | 20 42 | 0 39 | 22 25 | 0 6 | 20 34 | 2 22 | 23 41 | 23 39 | 4 15 | | n.a. |
| S 27 | 21 3 | 4 17 | 4 45 | 25 22 | 1 52 | 25 17 | 2 3 | 17 22 | 2 35 | 23 57 | 0 16 | 21 53 | 0 44 | 20 42 | 0 39 | 22 26 | 0 6 | 20 33 | 2 22 | 23 41 | 23 39 | 4 12 | | n.a. |
| S 28 | 21 14 | 0s36 | 5 6 | 25 19 | 1 46 | 25 10 | 2 3 | 17 17 | 2 37 | 23 57 | 0 16 | 21 53 | 0 44 | 20 43 | 0 39 | 22 26 | 0 6 | 20 33 | 2 22 | 23 41 | 23 39 | 4 9 | | n.a. |
| M29 | 21 26 | 5 30 | 5 13 | 25 14 | 1 38 | 25 3 | 2 3 | 17 13 | 2 39 | 23 57 | 0 16 | 21 54 | 0 45 | 20 43 | 0 39 | 22 26 | 0 6 | 20 33 | 2 22 | 23 41 | 23 39 | 4 6 | | n.a. |
| T 30 | 21s37 | 10s15 | 5s 7 | 25s 8 | 1s29 | 24s55 | 2s 3 | 17n 9 | 2n41 | 23s57 | 0s16 | 21n54 | 0n45 | 20n43 | 0n39 | 22n26 | 0s 6 | 20n33 | 2s22 | 23s41 | 23s39 | 4n 3 | | n.a. |

Julian Day Number = 1700908.5, Delta T = 03h05m37s
Ecliptic obliquity = 23°42'08, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°50'21, Lahiri = - 4°43'20 Julian Calendar 1 Nov. 57 BCE == Greg. Calendar 30 Oct. 057 BCE

The year -56 astronomical counting style corresponds to year 057 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 57 BCE
# geocentric

## DECEMBER 57 BCE (-56) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 4 29 37 | 7♐23'11 | 26♎17 | 26♐58 | 15♑50 | 21♌26 | 28♐32 | 25°R59 | 1°R18 | 17°R33 | 15°R27 | 2°R14 | 3♑20 | 8♍50 | n.a. | W 1 |
| T 2 | 4 33 33 | 8°24'28 | 8♏56 | 27°50 | 17° 3 | 21°43 | 28°46 | 25♋57 | 1♌17 | 17♋32 | 15♊26 | 2♑10 | 3°17 | 8°57 | n.a. | T 2 |
| F 3 | 4 37 30 | 9°25'45 | 21°51 | 28°35 | 18°15 | 21°59 | 28°59 | 25°54 | 1°16 | 17°30 | 15°25 | 2° 6 | 3°14 | 9° 4 | n.a. | F 3 |
| S 4 | 4 41 27 | 10°27'02 | 5♐ 4 | 29°12 | 19°28 | 22°16 | 29°13 | 25°52 | 1°14 | 17°29 | 15°23 | 2° 3 | 3°11 | 9°10 | n.a. | S 4 |
| S 5 | 4 45 23 | 11°28'19 | 18°33 | 29°40 | 20°40 | 22°31 | 29°27 | 25°49 | 1°13 | 17°28 | 15°22 | 2° 1 | 3° 8 | 9°17 | n.a. | S 5 |
| M 6 | 4 49 20 | 12°29'36 | 2♑17 | 29°58 | 21°52 | 22°47 | 29°41 | 25°46 | 1°12 | 17°26 | 15°21 | 2°D 1 | 3° 4 | 9°24 | n.a. | M 6 |
| T 7 | 4 53 16 | 13°30'53 | 16°12 | 0°R 6 | 23° 4 | 23° 1 | 29°55 | 25°44 | 1°10 | 17°25 | 15°20 | 2° 1 | 3° 1 | 9°30 | n.a. | T 7 |
| W 8 | 4 57 13 | 14°32'09 | 0♒15 | 0♑ 3 | 24°16 | 23°16 | 0♑ 9 | 25°41 | 1° 9 | 17°24 | 15°18 | 2° 3 | 2°58 | 9°37 | n.a. | W 8 |
| T 9 | 5 1 9 | 15°33'25 | 14°24 | 29♐48 | 25°28 | 23°29 | 0°23 | 25°37 | 1° 7 | 17°22 | 15°17 | 2° 4 | 2°55 | 9°44 | n.a. | T 9 |
| F 10 | 5 5 6 | 16°34'40 | 28°35 | 29°21 | 26°40 | 23°43 | 0°37 | 25°34 | 1° 6 | 17°21 | 15°16 | 2° 5 | 2°52 | 9°51 | n.a. | F 10 |
| S 11 | 5 9 3 | 17°35'54 | 12♓47 | 28°43 | 27°52 | 23°55 | 0°51 | 25°31 | 1° 4 | 17°20 | 15°15 | 2°R 6 | 2°48 | 9°57 | n.a. | S 11 |
| S 12 | 5 12 59 | 18°37'07 | 26°57 | 27°53 | 29° 4 | 24° 7 | 1° 5 | 25°28 | 1° 2 | 17°18 | 15°13 | 2° 6 | 2°45 | 10° 4 | n.a. | S 12 |
| M13 | 5 16 56 | 19°38'20 | 11♈ 3 | 26°54 | 0♒15 | 24°19 | 1°19 | 25°24 | 1° 0 | 17°17 | 15°12 | 2° 5 | 2°42 | 10°11 | n.a. | M13 |
| T 14 | 5 20 52 | 20°39'32 | 25° 3 | 25°46 | 1°27 | 24°30 | 1°33 | 25°21 | 0°59 | 17°15 | 15°11 | 2° 4 | 2°39 | 10°17 | n.a. | T 14 |
| W15 | 5 24 49 | 21°40'44 | 8♉55 | 24°33 | 2°38 | 24°41 | 1°47 | 25°17 | 0°57 | 17°14 | 15° 9 | 2° 2 | 2°36 | 10°24 | n.a. | W15 |
| T 16 | 5 28 45 | 22°41'55 | 22°37 | 23°15 | 3°50 | 24°50 | 2° 1 | 25°14 | 0°55 | 17°12 | 15° 8 | 2° 1 | 2°33 | 10°31 | n.a. | T 16 |
| F 17 | 5 32 42 | 23°43'05 | 6♊ 6 | 21°56 | 5° 1 | 25° 0 | 2°15 | 25°10 | 0°53 | 17°11 | 15° 7 | 2° 0 | 2°29 | 10°38 | n.a. | F 17 |
| S 18 | 5 36 38 | 24°44'14 | 19°22 | 20°38 | 6°12 | 25° 9 | 2°29 | 25° 6 | 0°51 | 17° 9 | 15° 6 | 1°59 | 2°26 | 10°44 | n.a. | S 18 |
| S 19 | 5 40 35 | 25°45'23 | 2♋22 | 19°24 | 7°23 | 25°17 | 2°43 | 25° 2 | 0°49 | 17° 8 | 15° 5 | 1°D59 | 2°23 | 10°51 | n.a. | S 19 |
| M20 | 5 44 32 | 26°46'31 | 15° 6 | 18°15 | 8°34 | 25°24 | 2°57 | 24°58 | 0°47 | 17° 6 | 15° 3 | 1°59 | 2°20 | 10°58 | n.a. | M20 |
| T 21 | 5 48 28 | 27°47'38 | 27°35 | 17°12 | 9°45 | 25°31 | 3°12 | 24°54 | 0°45 | 17° 5 | 15° 2 | 2° 0 | 2°17 | 11° 4 | n.a. | T 21 |
| W22 | 5 52 25 | 28°48'45 | 9♌51 | 16°18 | 10°55 | 25°37 | 3°26 | 24°50 | 0°43 | 17° 3 | 15° 1 | 2° 0 | 2°14 | 11°11 | n.a. | W22 |
| T 23 | 5 56 21 | 29°49'51 | 21°55 | 15°33 | 12° 6 | 25°43 | 3°40 | 24°46 | 0°41 | 17° 2 | 15° 0 | 2° 0 | 2°10 | 11°18 | n.a. | T 23 |
| F 24 | 6 0 18 | 0♑50'56 | 3♍51 | 14°57 | 13°16 | 25°48 | 3°54 | 24°42 | 0°39 | 17° 0 | 14°58 | 2° 1 | 2° 7 | 11°25 | n.a. | F 24 |
| S 25 | 6 4 14 | 1°52'01 | 15°43 | 14°30 | 14°26 | 25°52 | 4° 8 | 24°38 | 0°37 | 16°58 | 14°57 | 2°R 1 | 2° 4 | 11°31 | n.a. | S 25 |
| S 26 | 6 8 11 | 2°53'05 | 27°36 | 14°12 | 15°37 | 25°55 | 4°23 | 24°33 | 0°35 | 16°57 | 14°56 | 2°D 1 | 2° 1 | 11°38 | n.a. | S 26 |
| M27 | 6 12 7 | 3°54'08 | 9♎33 | 14° 3 | 16°47 | 25°58 | 4°37 | 24°29 | 0°32 | 16°55 | 14°55 | 2° 1 | 1°58 | 11°45 | n.a. | M27 |
| T 28 | 6 16 4 | 4°55'10 | 21°41 | 14°D 3 | 17°56 | 26° 0 | 4°51 | 24°25 | 0°30 | 16°53 | 14°54 | 2° 1 | 1°54 | 11°51 | n.a. | T 28 |
| W29 | 6 20 1 | 5°56'12 | 4♏ 2 | 14° 9 | 19° 6 | 26° 1 | 5° 5 | 24°20 | 0°28 | 16°52 | 14°53 | 2° 1 | 1°51 | 11°58 | n.a. | W29 |
| T 30 | 6 23 57 | 6°57'13 | 16°41 | 14°24 | 20°16 | 26°R 2 | 5°20 | 24°16 | 0°25 | 16°50 | 14°51 | 2° 1 | 1°48 | 12° 5 | n.a. | T 30 |
| F 31 | 6 27 54 | 7♑58'14 | 29♏42 | 14♐44 | 21♒25 | 26♌ 2 | 5♑34 | 24♋11 | 0♌23 | 16♋48 | 14♊50 | 2♑ 2 | 1♑45 | 12♍12 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| W 1 | 21s47 | 14s42 | 4s46 | 24s59 | 1s20 | 24s46 | 2s 2 | 17n 5 | 2n42 | 23s58 | 0s16 | 21n55 | 0n45 | 20n44 | 0n39 | 22n26 | 0s 6 | 20n33 | 2s22 | 23s41 | 23s40 | 4n 0 | | | n.a. |
| T 2 | 21 57 | 18 36 | 4 12 | 24 50 | 1 9 | 24 37 | 2 2 | 17 1 | 2 44 | 23 58 | 0 16 | 21 56 | 0 45 | 20 44 | 0 39 | 22 26 | 0 6 | 20 33 | 2 22 | 23 41 | 23 40 | 3 58 | | | n.a. |
| F 3 | 22 6 | 21 42 | 3 23 | 24 38 | 0 56 | 24 27 | 2 2 | 16 57 | 2 46 | 23 58 | 0 16 | 21 56 | 0 45 | 20 44 | 0 39 | 22 26 | 0 6 | 20 33 | 2 21 | 23 41 | 23 40 | 3 55 | | | n.a. |
| S 4 | 22 16 | 23 43 | 2 23 | 24 25 | 0 43 | 24 16 | 2 1 | 16 53 | 2 48 | 23 58 | 0 16 | 21 57 | 0 45 | 20 45 | 0 39 | 22 27 | 0 6 | 20 33 | 2 21 | 23 41 | 23 40 | 3 52 | | | n.a. |
| S 5 | 22 24 | 24 25 | 1 14 | 24 10 | 0 28 | 24 5 | 2 0 | 16 50 | 2 50 | 23 59 | 0 16 | 21 58 | 0 46 | 20 45 | 0 39 | 22 27 | 0 6 | 20 33 | 2 21 | 23 41 | 23 40 | 3 49 | | | n.a. |
| M 6 | 22 33 | 23 39 | 0n 1 | 23 55 | 0 12 | 23 52 | 2 0 | 16 46 | 2 52 | 23 59 | 0 17 | 21 58 | 0 46 | 20 45 | 0 39 | 22 27 | 0 6 | 20 33 | 2 21 | 23 41 | 23 40 | 3 46 | | | n.a. |
| T 7 | 22 40 | 21 26 | 1 17 | 23 38 | 0n 4 | 23 39 | 1 59 | 16 43 | 2 54 | 23 59 | 0 17 | 21 59 | 0 46 | 20 46 | 0 40 | 22 27 | 0 6 | 20 33 | 2 21 | 23 41 | 23 40 | 3 43 | | | n.a. |
| W 8 | 22 48 | 17 53 | 2 30 | 23 20 | 0 22 | 23 26 | 1 58 | 16 40 | 2 55 | 23 59 | 0 17 | 22 0 | 0 46 | 20 46 | 0 40 | 22 27 | 0 6 | 20 33 | 2 21 | 23 41 | 23 40 | 3 40 | | | n.a. |
| T 9 | 22 55 | 13 17 | 3 33 | 23 1 | 0 41 | 23 12 | 1 57 | 16 37 | 2 57 | 23 59 | 0 17 | 22 0 | 0 46 | 20 46 | 0 40 | 22 28 | 0 6 | 20 32 | 2 21 | 23 41 | 23 40 | 3 38 | | | n.a. |
| F 10 | 23 1 | 7 58 | 4 24 | 22 41 | 1 1 | 22 57 | 1 56 | 16 35 | 2 59 | 23 59 | 0 17 | 22 1 | 0 46 | 20 47 | 0 40 | 22 28 | 0 6 | 20 32 | 2 21 | 23 41 | 23 40 | 3 35 | | | n.a. |
| S 11 | 23 7 | 2 14 | 4 59 | 22 22 | 1 20 | 22 41 | 1 55 | 16 32 | 3 1 | 23 59 | 0 17 | 22 2 | 0 47 | 20 47 | 0 40 | 22 28 | 0 6 | 20 32 | 2 21 | 23 41 | 23 40 | 3 32 | | | n.a. |
| S 12 | 23 12 | 3n35 | 5 15 | 22 1 | 1 40 | 22 25 | 1 53 | 16 30 | 3 3 | 23 59 | 0 17 | 22 3 | 0 47 | 20 48 | 0 40 | 22 28 | 0 6 | 20 32 | 2 21 | 23 41 | 23 40 | 3 29 | | | n.a. |
| M13 | 23 18 | 9 12 | 5 12 | 21 41 | 1 59 | 22 8 | 1 52 | 16 28 | 3 5 | 23 59 | 0 17 | 22 4 | 0 47 | 20 48 | 0 40 | 22 28 | 0 6 | 20 32 | 2 21 | 23 41 | 23 40 | 3 26 | | | n.a. |
| T 14 | 23 22 | 14 18 | 4 51 | 21 22 | 2 17 | 21 51 | 1 50 | 16 26 | 3 7 | 23 59 | 0 17 | 22 4 | 0 47 | 20 48 | 0 40 | 22 29 | 0 6 | 20 32 | 2 21 | 23 41 | 23 40 | 3 23 | | | n.a. |
| W15 | 23 26 | 18 37 | 4 13 | 21 2 | 2 33 | 21 33 | 1 49 | 16 24 | 3 9 | 23 59 | 0 17 | 22 5 | 0 47 | 20 49 | 0 40 | 22 29 | 0 6 | 20 32 | 2 21 | 23 41 | 23 41 | 3 20 | | | n.a. |
| T 16 | 23 30 | 21 52 | 3 21 | 20 44 | 2 48 | 21 14 | 1 47 | 16 23 | 3 11 | 23 59 | 0 18 | 22 6 | 0 47 | 20 49 | 0 40 | 22 29 | 0 6 | 20 32 | 2 21 | 23 41 | 23 41 | 3 18 | | | n.a. |
| F 17 | 23 33 | 23 50 | 2 19 | 20 27 | 3 1 | 20 55 | 1 45 | 16 22 | 3 13 | 23 59 | 0 18 | 22 7 | 0 48 | 20 50 | 0 40 | 22 29 | 0 6 | 20 32 | 2 21 | 23 41 | 23 41 | 3 15 | | | n.a. |
| S 18 | 23 36 | 24 25 | 1 9 | 20 12 | 3 11 | 20 36 | 1 43 | 16 21 | 3 15 | 23 58 | 0 18 | 22 8 | 0 48 | 20 50 | 0 40 | 22 29 | 0 6 | 20 32 | 2 21 | 23 41 | 23 41 | 3 12 | | | n.a. |
| S 19 | 23 38 | 23 39 | 0s 2 | 19 58 | 3 19 | 20 16 | 1 41 | 16 20 | 3 17 | 23 58 | 0 18 | 22 9 | 0 48 | 20 51 | 0 40 | 22 30 | 0 6 | 20 32 | 2 20 | 23 41 | 23 41 | 3 9 | | | n.a. |
| M20 | 23 40 | 21 39 | 1 12 | 19 47 | 3 24 | 19 55 | 1 39 | 16 19 | 3 19 | 23 58 | 0 18 | 22 9 | 0 48 | 20 51 | 0 40 | 22 30 | 0 6 | 20 32 | 2 20 | 23 41 | 23 41 | 3 6 | | | n.a. |
| T 21 | 23 41 | 18 38 | 2 17 | 19 39 | 3 27 | 19 34 | 1 37 | 16 19 | 3 22 | 23 58 | 0 18 | 22 10 | 0 48 | 20 52 | 0 40 | 22 30 | 0 6 | 20 32 | 2 20 | 23 41 | 23 41 | 3 3 | | | n.a. |
| W22 | 23 42 | 14 51 | 3 15 | 19 33 | 3 28 | 19 12 | 1 35 | 16 18 | 3 24 | 23 58 | 0 18 | 22 11 | 0 48 | 20 52 | 0 40 | 22 30 | 0 6 | 20 32 | 2 20 | 23 41 | 23 41 | 3 1 | | | n.a. |
| T 23 | 23 42 | 10 31 | 4 3 | 19 29 | 3 27 | 18 50 | 1 32 | 16 18 | 3 26 | 23 57 | 0 18 | 22 12 | 0 48 | 20 53 | 0 40 | 22 30 | 0 6 | 20 32 | 2 20 | 23 41 | 23 41 | 2 58 | | | n.a. |
| F 24 | 23 42 | 5 52 | 4 40 | 19 28 | 3 24 | 18 27 | 1 30 | 16 19 | 3 28 | 23 57 | 0 18 | 22 13 | 0 49 | 20 53 | 0 40 | 22 31 | 0 6 | 20 31 | 2 20 | 23 41 | 23 41 | 2 55 | | | n.a. |
| S 25 | 23 41 | 1 1 | 5 5 | 19 30 | 3 19 | 18 4 | 1 27 | 16 19 | 3 30 | 23 57 | 0 18 | 22 14 | 0 49 | 20 54 | 0 40 | 22 31 | 0 6 | 20 31 | 2 20 | 23 41 | 23 41 | 2 52 | | | n.a. |
| S 26 | 23 40 | 3s52 | 5 16 | 19 33 | 3 13 | 17 40 | 1 24 | 16 20 | 3 32 | 23 56 | 0 19 | 22 15 | 0 49 | 20 54 | 0 40 | 22 31 | 0 6 | 20 31 | 2 20 | 23 41 | 23 41 | 2 49 | | | n.a. |
| M27 | 23 39 | 8 38 | 5 15 | 19 39 | 3 6 | 17 16 | 1 21 | 16 21 | 3 34 | 23 56 | 0 19 | 22 16 | 0 49 | 20 55 | 0 40 | 22 31 | 0 6 | 20 31 | 2 20 | 23 41 | 23 41 | 2 46 | | | n.a. |
| T 28 | 23 37 | 13 9 | 4 59 | 19 47 | 2 59 | 16 52 | 1 18 | 16 22 | 3 36 | 23 55 | 0 19 | 22 17 | 0 49 | 20 55 | 0 40 | 22 32 | 0 6 | 20 31 | 2 20 | 23 41 | 23 41 | 2 44 | | | n.a. |
| W29 | 23 34 | 17 13 | 4 29 | 19 56 | 2 50 | 16 27 | 1 15 | 16 24 | 3 38 | 23 55 | 0 19 | 22 18 | 0 49 | 20 56 | 0 40 | 22 32 | 0 6 | 20 31 | 2 20 | 23 41 | 23 41 | 2 41 | | | n.a. |
| T 30 | 23 31 | 20 37 | 3 46 | 20 7 | 2 41 | 16 2 | 1 12 | 16 26 | 3 40 | 23 55 | 0 19 | 22 19 | 0 49 | 20 56 | 0 40 | 22 32 | 0 6 | 20 31 | 2 20 | 23 41 | 23 41 | 2 38 | | | n.a. |
| F 31 | 23s28 | 23s 4 | 2s50 | 20s19 | 2n32 | 15s36 | 1s 9 | 16n28 | 3n43 | 23s54 | 0s19 | 22n19 | 0n50 | 20n57 | 0n40 | 22n32 | 0s 6 | 20n31 | 2s20 | 23s41 | 23s41 | 2n35 | | | n.a. |

Julian Day Number = 1700938.5, Delta T = 03h05m36s
Ecliptic obliquity = 23°42'07, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°50'17, Lahiri = - 4°43'16 Julian Calendar 1 Dec. 57 BCE == Greg. Calendar 29 Nov. 057 BCE

The year -56 astronomical counting style corresponds to year 057 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 56 BCE
# geocentric

## JANUARY 56 BCE (-55) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 31 50 | 8♑59'13 | 13♐ 5 | 15♐11 | 22♒35 | 26°R 1 | 5♑48 | 24°R 6 | 0°R21 | 16°R47 | 14°R49 | 2♑ 3 | 1♑42 | 12♍18 | n.a. | S 1 |
| S 2 | 6 35 47 | 10° 0'11 | 26°51 | 15°44 | 23°44 | 25♌59 | 6° 2 | 24♋ 2 | 0♌18 | 16♋45 | 14♊48 | 2°R 3 | 1°39 | 12°25 | n.a. | S 2 |
| M 3 | 6 39 43 | 11° 1'09 | 10♑57 | 16°21 | 24°53 | 25°57 | 6°16 | 23°57 | 0°16 | 16°43 | 14°47 | 2° 3 | 1°35 | 12°32 | n.a. | M 3 |
| T 4 | 6 43 40 | 12° 2'05 | 25°19 | 17° 3 | 26° 1 | 25°53 | 6°31 | 23°52 | 0°13 | 16°42 | 14°46 | 2° 2 | 1°32 | 12°38 | n.a. | T 4 |
| W 5 | 6 47 37 | 13° 2'59 | 9♒53 | 17°49 | 27°10 | 25°49 | 6°45 | 23°48 | 0°11 | 16°40 | 14°45 | 2° 1 | 1°29 | 12°45 | n.a. | W 5 |
| T 6 | 6 51 33 | 14° 3'53 | 24°31 | 18°39 | 28°18 | 25°45 | 6°59 | 23°43 | 0° 9 | 16°38 | 14°44 | 2° 0 | 1°26 | 12°52 | n.a. | T 6 |
| F 7 | 6 55 30 | 15° 4'44 | 9♓ 7 | 19°33 | 29°27 | 25°39 | 7°13 | 23°38 | 0° 6 | 16°37 | 14°42 | 1°58 | 1°23 | 12°59 | n.a. | F 7 |
| S 8 | 6 59 26 | 16° 5'34 | 23°36 | 20°29 | 0♓35 | 25°33 | 7°27 | 23°33 | 0° 4 | 16°35 | 14°41 | 1°57 | 1°20 | 13° 5 | n.a. | S 8 |
| S 9 | 7 3 23 | 17° 6'22 | 7♈53 | 21°29 | 1°43 | 25°26 | 7°41 | 23°28 | 0° 1 | 16°33 | 14°40 | 1°56 | 1°16 | 13°12 | n.a. | S 9 |
| M10 | 7 7 19 | 18° 7'09 | 21°56 | 22°31 | 2°50 | 25°18 | 7°56 | 23°24 | 29♋58 | 16°32 | 14°39 | 1°D56 | 1°13 | 13°19 | n.a. | M10 |
| T 11 | 7 11 16 | 19° 7'53 | 5♉43 | 23°36 | 3°58 | 25° 9 | 8°10 | 23°19 | 29°56 | 16°30 | 14°38 | 1°56 | 1°10 | 13°25 | n.a. | T 11 |
| W12 | 7 15 12 | 20° 8'36 | 19°15 | 24°43 | 5° 5 | 24°59 | 8°24 | 23°14 | 29°53 | 16°28 | 14°37 | 1°58 | 1° 7 | 13°32 | n.a. | W12 |
| T 13 | 7 19 9 | 21° 9'18 | 2♊33 | 25°52 | 6°12 | 24°49 | 8°38 | 23° 9 | 29°51 | 16°27 | 14°36 | 1°59 | 1° 4 | 13°39 | n.a. | T 13 |
| F 14 | 7 23 6 | 22° 9'57 | 15°36 | 27° 3 | 7°19 | 24°38 | 8°52 | 23° 4 | 29°48 | 16°25 | 14°35 | 2° 0 | 1° 0 | 13°46 | n.a. | F 14 |
| S 15 | 7 27 2 | 23°10'35 | 28°27 | 28°16 | 8°25 | 24°26 | 9° 6 | 22°59 | 29°46 | 16°23 | 14°34 | 2°R 1 | 0°57 | 13°52 | n.a. | S 15 |
| S 16 | 7 30 59 | 24°11'12 | 11♋ 6 | 29°30 | 9°32 | 24°14 | 9°20 | 22°54 | 29°43 | 16°22 | 14°34 | 2° 1 | 0°54 | 13°59 | n.a. | S 16 |
| M17 | 7 34 55 | 25°11'46 | 23°34 | 0♑46 | 10°38 | 24° 0 | 9°34 | 22°50 | 29°40 | 16°20 | 14°33 | 1°59 | 0°51 | 14° 6 | n.a. | M17 |
| T 18 | 7 38 52 | 26°12'19 | 5♌51 | 2° 4 | 11°43 | 23°46 | 9°48 | 22°45 | 29°38 | 16°18 | 14°32 | 1°57 | 0°48 | 14°13 | n.a. | T 18 |
| W19 | 7 42 48 | 27°12'50 | 18° 0 | 3°23 | 12°49 | 23°31 | 10° 2 | 22°40 | 29°35 | 16°17 | 14°31 | 1°53 | 0°45 | 14°19 | n.a. | W19 |
| T 20 | 7 46 45 | 28°13'19 | 0♍ 1 | 4°44 | 13°54 | 23°16 | 10°16 | 22°35 | 29°33 | 16°15 | 14°30 | 1°48 | 0°41 | 14°26 | n.a. | T 20 |
| F 21 | 7 50 41 | 29°13'47 | 11°56 | 6° 6 | 14°59 | 23° 0 | 10°30 | 22°30 | 29°30 | 16°13 | 14°29 | 1°43 | 0°38 | 14°33 | n.a. | F 21 |
| S 22 | 7 54 38 | 0♒14'14 | 23°48 | 7°29 | 16° 4 | 22°43 | 10°43 | 22°25 | 29°27 | 16°12 | 14°28 | 1°39 | 0°35 | 14°39 | n.a. | S 22 |
| S 23 | 7 58 35 | 1°14'39 | 5♎40 | 8°53 | 17° 8 | 22°25 | 10°57 | 22°21 | 29°25 | 16°10 | 14°27 | 1°35 | 0°32 | 14°46 | n.a. | S 23 |
| M24 | 8 2 31 | 2°15'02 | 17°36 | 10°18 | 18°12 | 22° 7 | 11°11 | 22°16 | 29°22 | 16° 8 | 14°27 | 1°32 | 0°29 | 14°53 | n.a. | M24 |
| T 25 | 8 6 28 | 3°15'24 | 29°40 | 11°45 | 19°16 | 21°48 | 11°25 | 22°11 | 29°19 | 16° 7 | 14°26 | 1°D31 | 0°26 | 15° 0 | n.a. | T 25 |
| W26 | 8 10 24 | 4°15'44 | 11♏58 | 13°13 | 20°19 | 21°29 | 11°38 | 22° 6 | 29°17 | 16° 5 | 14°25 | 1°31 | 0°22 | 15° 6 | n.a. | W26 |
| T 27 | 8 14 21 | 5°16'02 | 24°33 | 14°42 | 21°23 | 21° 9 | 11°52 | 22° 2 | 29°14 | 16° 4 | 14°24 | 1°33 | 0°19 | 15°13 | n.a. | T 27 |
| F 28 | 8 18 17 | 6°16'20 | 7♐29 | 16°12 | 22°25 | 20°49 | 12° 6 | 21°57 | 29°12 | 16° 2 | 14°24 | 1°34 | 0°16 | 15°20 | n.a. | F 28 |
| S 29 | 8 22 14 | 7°16'35 | 20°52 | 17°43 | 23°28 | 20°28 | 12°19 | 21°52 | 29° 9 | 16° 0 | 14°23 | 1°36 | 0°13 | 15°26 | n.a. | S 29 |
| S 30 | 8 26 10 | 8°16'49 | 4♑41 | 19°15 | 24°30 | 20° 6 | 12°33 | 21°48 | 29° 6 | 15°59 | 14°22 | 1°R36 | 0°10 | 15°33 | n.a. | S 30 |
| M31 | 8 30 7 | 9♒17'01 | 18♑57 | 20♑48 | 25♓32 | 19♌44 | 12♑46 | 21♋43 | 29♋ 4 | 15♋57 | 14♊22 | 1♑35 | 0♑ 6 | 15♍40 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23s24 | 24s20 | 1s43 | 20s31 | 2n22 | 15s10 | 1s 6 | 16n30 | 3n45 | 23s54 | 0s19 | 22n20 | 0n50 | 20n57 | 0n40 | 22n32 | 0s 6 | 20n31 | 2s19 | 23s41 | 23s41 | 2n32 | | n.a. |
| S 2 | 23 19 | 24 9 | 0 29 | 20 45 | 2 12 | 14 44 | 1 2 | 16 33 | 3 47 | 23 53 | 0 19 | 22 21 | 0 50 | 20 58 | 0 40 | 22 33 | 0 6 | 20 31 | 2 19 | 23 41 | 23 41 | 2 29 | | n.a. |
| M 3 | 23 14 | 22 26 | 0n49 | 20 59 | 2 2 | 14 17 | 0 59 | 16 35 | 3 49 | 23 52 | 0 19 | 22 22 | 0 50 | 20 58 | 0 40 | 22 33 | 0 6 | 20 31 | 2 19 | 23 41 | 23 42 | 2 26 | | n.a. |
| T 4 | 23 9 | 19 15 | 2 5 | 21 13 | 1 51 | 13 51 | 0 55 | 16 38 | 3 51 | 23 52 | 0 19 | 22 23 | 0 50 | 20 59 | 0 40 | 22 33 | 0 6 | 20 31 | 2 19 | 23 41 | 23 42 | 2 24 | | n.a. |
| W 5 | 23 3 | 14 51 | 3 15 | 21 28 | 1 41 | 13 23 | 0 51 | 16 42 | 3 53 | 23 51 | 0 20 | 22 24 | 0 50 | 20 59 | 0 40 | 22 33 | 0 6 | 20 31 | 2 19 | 23 41 | 23 42 | 2 21 | | n.a. |
| T 6 | 22 57 | 9 33 | 4 11 | 21 42 | 1 31 | 12 56 | 0 47 | 16 45 | 3 55 | 23 51 | 0 20 | 22 25 | 0 50 | 21 0 | 0 40 | 22 34 | 0 6 | 20 31 | 2 19 | 23 41 | 23 42 | 2 18 | | n.a. |
| F 7 | 22 50 | 3 44 | 4 51 | 21 57 | 1 20 | 12 28 | 0 43 | 16 49 | 3 57 | 23 50 | 0 20 | 22 26 | 0 50 | 21 0 | 0 40 | 22 34 | 0 6 | 20 31 | 2 19 | 23 41 | 23 42 | 2 15 | | n.a. |
| S 8 | 22 43 | 2n13 | 5 13 | 22 11 | 1 10 | 12 0 | 0 39 | 16 53 | 3 59 | 23 49 | 0 20 | 22 27 | 0 51 | 21 1 | 0 40 | 22 34 | 0 6 | 20 31 | 2 19 | 23 41 | 23 42 | 2 12 | | n.a. |
| S 9 | 22 36 | 7 58 | 5 14 | 22 25 | 1 0 | 11 32 | 0 35 | 16 58 | 4 1 | 23 49 | 0 20 | 22 28 | 0 51 | 21 2 | 0 40 | 22 34 | 0 6 | 20 31 | 2 19 | 23 41 | 23 42 | 2 9 | | n.a. |
| M10 | 22 28 | 13 13 | 4 57 | 22 39 | 0 50 | 11 3 | 0 31 | 17 2 | 4 3 | 23 48 | 0 20 | 22 29 | 0 51 | 21 2 | 0 40 | 22 34 | 0 6 | 20 31 | 2 19 | 23 41 | 23 42 | 2 7 | | n.a. |
| T 11 | 22 19 | 17 42 | 4 23 | 22 52 | 0 41 | 10 35 | 0 27 | 17 7 | 4 5 | 23 47 | 0 20 | 22 30 | 0 51 | 21 3 | 0 40 | 22 35 | 0 6 | 20 31 | 2 19 | 23 41 | 23 42 | 2 4 | | n.a. |
| W12 | 22 10 | 21 10 | 3 35 | 23 5 | 0 31 | 10 6 | 0 22 | 17 12 | 4 7 | 23 46 | 0 20 | 22 31 | 0 51 | 21 3 | 0 40 | 22 35 | 0 6 | 20 31 | 2 18 | 23 41 | 23 42 | 2 1 | | n.a. |
| T 13 | 22 1 | 23 26 | 2 36 | 23 16 | 0 22 | 9 37 | 0 18 | 17 17 | 4 9 | 23 45 | 0 20 | 22 32 | 0 51 | 21 4 | 0 40 | 22 35 | 0 6 | 20 31 | 2 18 | 23 41 | 23 42 | 1 58 | | n.a. |
| F 14 | 21 51 | 24 24 | 1 29 | 23 27 | 0 13 | 9 7 | 0 13 | 17 23 | 4 11 | 23 45 | 0 21 | 22 33 | 0 51 | 21 4 | 0 40 | 22 35 | 0 6 | 20 31 | 2 18 | 23 41 | 23 42 | 1 55 | | n.a. |
| S 15 | 21 41 | 24 1 | 0 20 | 23 38 | 0 4 | 8 38 | 0 8 | 17 29 | 4 12 | 23 44 | 0 21 | 22 34 | 0 51 | 21 5 | 0 40 | 22 35 | 0 6 | 20 31 | 2 18 | 23 41 | 23 42 | 1 53 | | n.a. |
| S 16 | 21 31 | 22 24 | 0s50 | 23 47 | 0s 5 | 8 8 | 0 4 | 17 35 | 4 14 | 23 43 | 0 21 | 22 35 | 0 51 | 21 6 | 0 40 | 22 36 | 0 6 | 20 31 | 2 18 | 23 41 | 23 42 | 1 50 | | n.a. |
| M17 | 21 20 | 19 43 | 1 56 | 23 55 | 0 13 | 7 39 | 0n 1 | 17 41 | 4 16 | 23 42 | 0 21 | 22 36 | 0 51 | 21 6 | 0 40 | 22 36 | 0 6 | 20 31 | 2 18 | 23 41 | 23 42 | 1 47 | | n.a. |
| T 18 | 21 8 | 16 11 | 2 55 | 24 3 | 0 22 | 7 9 | 0 6 | 17 47 | 4 17 | 23 41 | 0 21 | 22 36 | 0 52 | 21 7 | 0 40 | 22 36 | 0 6 | 20 31 | 2 18 | 23 41 | 23 42 | 1 44 | | n.a. |
| W19 | 20 57 | 12 1 | 3 46 | 24 9 | 0 30 | 6 39 | 0 11 | 17 53 | 4 19 | 23 40 | 0 21 | 22 37 | 0 52 | 21 7 | 0 41 | 22 36 | 0 6 | 20 31 | 2 18 | 23 41 | 23 42 | 1 41 | | n.a. |
| T 20 | 20 45 | 7 26 | 4 26 | 24 14 | 0 37 | 6 9 | 0 16 | 18 0 | 4 20 | 23 39 | 0 21 | 22 38 | 0 52 | 21 8 | 0 41 | 22 37 | 0 6 | 20 31 | 2 18 | 23 41 | 23 42 | 1 38 | | n.a. |
| F 21 | 20 32 | 2 38 | 4 54 | 24 18 | 0 45 | 5 39 | 0 21 | 18 7 | 4 22 | 23 38 | 0 21 | 22 39 | 0 52 | 21 8 | 0 41 | 22 37 | 0 6 | 20 31 | 2 18 | 23 41 | 23 42 | 1 36 | | n.a. |
| S 22 | 20 19 | 2s15 | 5 10 | 24 21 | 0 52 | 5 9 | 0 27 | 18 14 | 4 23 | 23 37 | 0 22 | 22 40 | 0 52 | 21 9 | 0 41 | 22 37 | 0 5 | 20 31 | 2 18 | 23 41 | 23 42 | 1 33 | | n.a. |
| S 23 | 20 6 | 7 2 | 5 12 | 24 23 | 0 59 | 4 39 | 0 32 | 18 21 | 4 24 | 23 36 | 0 22 | 22 41 | 0 52 | 21 9 | 0 41 | 22 37 | 0 5 | 20 31 | 2 17 | 23 42 | 23 42 | 1 30 | | n.a. |
| M24 | 19 52 | 11 36 | 5 1 | 24 23 | 1 5 | 4 8 | 0 37 | 18 28 | 4 26 | 23 35 | 0 22 | 22 42 | 0 52 | 21 10 | 0 41 | 22 37 | 0 5 | 20 31 | 2 17 | 23 42 | 23 42 | 1 27 | | n.a. |
| T 25 | 19 39 | 15 46 | 4 36 | 24 22 | 1 12 | 3 38 | 0 43 | 18 35 | 4 27 | 23 34 | 0 22 | 22 43 | 0 52 | 21 11 | 0 41 | 22 38 | 0 5 | 20 31 | 2 17 | 23 42 | 23 42 | 1 24 | | n.a. |
| W26 | 19 24 | 19 22 | 3 58 | 24 20 | 1 18 | 3 8 | 0 49 | 18 43 | 4 28 | 23 33 | 0 22 | 22 44 | 0 52 | 21 11 | 0 41 | 22 38 | 0 5 | 20 31 | 2 17 | 23 42 | 23 42 | 1 21 | | n.a. |
| T 27 | 19 10 | 22 9 | 3 8 | 24 16 | 1 24 | 2 38 | 0 54 | 18 50 | 4 29 | 23 32 | 0 22 | 22 44 | 0 52 | 21 12 | 0 41 | 22 38 | 0 5 | 20 31 | 2 17 | 23 42 | 23 42 | 1 19 | | n.a. |
| F 28 | 18 55 | 23 54 | 2 8 | 24 11 | 1 29 | 2 7 | 1 0 | 18 58 | 4 30 | 23 31 | 0 22 | 22 45 | 0 52 | 21 12 | 0 41 | 22 38 | 0 5 | 20 31 | 2 17 | 23 42 | 23 42 | 1 16 | | n.a. |
| S 29 | 18 39 | 24 21 | 0 58 | 24 4 | 1 34 | 1 37 | 1 6 | 19 6 | 4 31 | 23 30 | 0 22 | 22 46 | 0 53 | 21 13 | 0 41 | 22 38 | 0 5 | 20 31 | 2 17 | 23 42 | 23 42 | 1 13 | | n.a. |
| S 30 | 18 24 | 23 20 | 0n17 | 23 56 | 1 39 | 1 7 | 1 12 | 19 13 | 4 31 | 23 29 | 0 23 | 22 47 | 0 53 | 21 13 | 0 41 | 22 39 | 0 5 | 20 31 | 2 17 | 23 42 | 23 42 | 1 10 | | n.a. |
| M31 | 18s 8 | 20s49 | 1n33 | 23s46 | 1s43 | 0s37 | 1n17 | 19n21 | 4n32 | 23s27 | 0s23 | 22n48 | 0n53 | 21n14 | 0n41 | 22n39 | 0s 5 | 20n31 | 2s17 | 23s42 | 23s42 | 1n 7 | | n.a. |

Julian Day Number = 1700969.5, Delta T = 03h05m35s
Ecliptic obliquity = 23°42'06, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°50'12, Lahiri = - 4°43'12 Julian Calendar 1 Jan. 56 BCE == Greg. Calendar 30 Dec. 057 BCE

The year -55 astronomical counting style corresponds to year 056 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 56 BCE
# geocentric

## FEBRUARY 56 BCE (-55) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 34 4 | 10♒17'12 | 3♒36 | 22♉22 | 26♓33 | 19°R22 | 13♉ 0 | 21°R39 | 29°R 1 | 15°R56 | 14°R21 | 1°R32 | 0♉ 3 | 15♍47 | n.a. | T 1 |
| W 2 | 8 38 0 | 11°17'20 | 18°32 | 23°58 | 27°34 | 19♌ 0 | 13°13 | 21♋34 | 28♋59 | 15♋54 | 14♊20 | 1♉27 | 0° 0 | 15°53 | n.a. | W 2 |
| T 3 | 8 41 57 | 12°17'26 | 3♓36 | 25°34 | 28°34 | 18°37 | 13°27 | 21°30 | 28°56 | 15°53 | 14°20 | 1°21 | 29♐57 | 16° 0 | n.a. | T 3 |
| F 4 | 8 45 53 | 13°17'30 | 18°39 | 27°12 | 29°34 | 18°14 | 13°40 | 21°26 | 28°54 | 15°51 | 14°19 | 1°14 | 29°54 | 16° 7 | n.a. | F 4 |
| S 5 | 8 49 50 | 14°17'32 | 3♈31 | 28°50 | 0♈34 | 17°51 | 13°53 | 21°21 | 28°51 | 15°50 | 14°19 | 1° 8 | 29°51 | 16°13 | n.a. | S 5 |
| S 6 | 8 53 46 | 15°17'32 | 18° 6 | 0♒30 | 1°33 | 17°27 | 14° 6 | 21°17 | 28°49 | 15°49 | 14°18 | 1° 4 | 29°47 | 16°20 | n.a. | S 6 |
| M 7 | 8 57 43 | 16°17'29 | 2♉19 | 2°11 | 2°32 | 17° 4 | 14°20 | 21°13 | 28°46 | 15°47 | 14°18 | 1° 1 | 29°44 | 16°27 | n.a. | M 7 |
| T 8 | 9 1 39 | 17°17'24 | 16° 7 | 3°52 | 3°30 | 16°40 | 14°33 | 21° 9 | 28°44 | 15°46 | 14°17 | 1°D 0 | 29°41 | 16°34 | n.a. | T 8 |
| W 9 | 9 5 36 | 18°17'17 | 29°33 | 5°35 | 4°28 | 16°16 | 14°46 | 21° 5 | 28°41 | 15°44 | 14°17 | 1° 0 | 29°38 | 16°40 | n.a. | W 9 |
| T 10 | 9 9 33 | 19°17'08 | 12♊38 | 7°20 | 5°25 | 15°53 | 14°59 | 21° 1 | 28°39 | 15°43 | 14°16 | 1° 2 | 29°35 | 16°47 | n.a. | T 10 |
| F 11 | 9 13 29 | 20°16'56 | 25°26 | 9° 5 | 6°21 | 15°29 | 15°12 | 20°57 | 28°36 | 15°42 | 14°16 | 1°R 3 | 29°32 | 16°54 | n.a. | F 11 |
| S 12 | 9 17 26 | 21°16'42 | 7♋59 | 10°51 | 7°18 | 15° 6 | 15°25 | 20°53 | 28°34 | 15°40 | 14°15 | 1° 3 | 29°28 | 17° 1 | n.a. | S 12 |
| S 13 | 9 21 22 | 22°16'25 | 20°20 | 12°39 | 8°13 | 14°43 | 15°37 | 20°49 | 28°32 | 15°39 | 14°15 | 1° 1 | 29°25 | 17° 7 | n.a. | S 13 |
| M14 | 9 25 19 | 23°16'06 | 2♌33 | 14°28 | 9° 8 | 14°20 | 15°50 | 20°45 | 28°29 | 15°38 | 14°15 | 0°56 | 29°22 | 17°14 | n.a. | M14 |
| T 15 | 9 29 15 | 24°15'45 | 14°38 | 16°18 | 10° 2 | 13°57 | 16° 3 | 20°42 | 28°27 | 15°37 | 14°14 | 0°49 | 29°19 | 17°21 | n.a. | T 15 |
| W16 | 9 33 12 | 25°15'22 | 26°38 | 18° 9 | 10°56 | 13°34 | 16°15 | 20°38 | 28°25 | 15°35 | 14°14 | 0°40 | 29°16 | 17°27 | n.a. | W16 |
| T 17 | 9 37 8 | 26°14'57 | 8♍34 | 20° 2 | 11°49 | 13°12 | 16°28 | 20°35 | 28°23 | 15°34 | 14°14 | 0°30 | 29°12 | 17°34 | n.a. | T 17 |
| F 18 | 9 41 5 | 27°14'29 | 20°28 | 21°55 | 12°41 | 12°50 | 16°40 | 20°31 | 28°20 | 15°33 | 14°13 | 0°19 | 29° 9 | 17°41 | n.a. | F 18 |
| S 19 | 9 45 1 | 28°14'00 | 2♎20 | 23°50 | 13°32 | 12°29 | 16°53 | 20°28 | 28°18 | 15°32 | 14°13 | 0° 8 | 29° 6 | 17°48 | n.a. | S 19 |
| S 20 | 9 48 58 | 29°13'28 | 14°13 | 25°46 | 14°23 | 12° 8 | 17° 5 | 20°25 | 28°16 | 15°31 | 14°13 | 29♐58 | 29° 3 | 17°54 | n.a. | S 20 |
| M21 | 9 52 55 | 0♓12'55 | 26°10 | 27°43 | 15°13 | 11°47 | 17°17 | 20°21 | 28°14 | 15°29 | 14°13 | 29°50 | 29° 0 | 18° 1 | n.a. | M21 |
| T 22 | 9 56 51 | 1°12'20 | 8♏14 | 29°42 | 16° 2 | 11°27 | 17°30 | 20°18 | 28°12 | 15°28 | 14°13 | 29°45 | 28°57 | 18° 8 | n.a. | T 22 |
| W23 | 10 0 48 | 2°11'43 | 20°28 | 1♓41 | 16°51 | 11° 8 | 17°42 | 20°15 | 28°10 | 15°27 | 14°13 | 29°43 | 28°53 | 18°14 | n.a. | W23 |
| T 24 | 10 4 44 | 3°11'04 | 2♐59 | 3°41 | 17°38 | 10°49 | 17°54 | 20°12 | 28° 8 | 15°26 | 14°12 | 29°D42 | 28°50 | 18°21 | n.a. | T 24 |
| F 25 | 10 8 41 | 4°10'23 | 15°49 | 5°42 | 18°25 | 10°30 | 18° 6 | 20°10 | 28° 6 | 15°25 | 14°12 | 29°42 | 28°47 | 18°28 | n.a. | F 25 |
| S 26 | 10 12 37 | 5° 9'40 | 29° 5 | 7°44 | 19°11 | 10°12 | 18°18 | 20° 7 | 28° 4 | 15°24 | 14°12 | 29°R43 | 28°44 | 18°35 | n.a. | S 26 |
| S 27 | 10 16 34 | 6° 8'56 | 12♑47 | 9°46 | 19°55 | 9°55 | 18°30 | 20° 4 | 28° 2 | 15°23 | 14°12 | 29°42 | 28°41 | 18°41 | n.a. | S 27 |
| M28 | 10 20 30 | 7♓ 8'09 | 26♑59 | 11♓49 | 20♈39 | 9♌39 | 18♑41 | 20♋ 2 | 28♋ 0 | 15♋22 | 14°D12 | 29♐39 | 28♐37 | 18♍48 | n.a. | M28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 17s51 | 16s53 | 2n45 | 23s35 | 1s47 | 0s 7 | 1n23 | 19n28 | 4n32 | 23s26 | 0s23 | 22n48 | 0n53 | 21n14 | 0n41 | 22n39 | 0s 5 | 20n31 | 2s16 | 23s42 | 23s42 | 1n 5 | | n.a. |
| W 2 | 17 35 | 11 50 | 3 47 | 23 22 | 1 51 | 0n23 | 1 29 | 19 36 | 4 33 | 23 25 | 0 23 | 22 49 | 0 53 | 21 15 | 0 41 | 22 39 | 0 5 | 20 31 | 2 16 | 23 42 | 23 42 | 1 2 | | n.a. |
| T 3 | 17 18 | 6 3 | 4 34 | 23 8 | 1 54 | 0 53 | 1 35 | 19 44 | 4 33 | 23 24 | 0 23 | 22 50 | 0 53 | 21 15 | 0 41 | 22 39 | 0 5 | 20 31 | 2 16 | 23 42 | 23 42 | 0 59 | | n.a. |
| F 4 | 17 1 | 0n 5 | 5 2 | 22 52 | 1 57 | 1 23 | 1 42 | 19 51 | 4 33 | 23 23 | 0 23 | 22 51 | 0 53 | 21 16 | 0 41 | 22 40 | 0 5 | 20 31 | 2 16 | 23 42 | 23 42 | 0 56 | | n.a. |
| S 5 | 16 43 | 6 8 | 5 9 | 22 34 | 2 0 | 1 52 | 1 48 | 19 59 | 4 33 | 23 21 | 0 23 | 22 52 | 0 53 | 21 17 | 0 41 | 22 40 | 0 5 | 20 31 | 2 16 | 23 42 | 23 42 | 0 53 | | n.a. |
| S 6 | 16 26 | 11 43 | 4 56 | 22 15 | 2 2 | 2 22 | 1 54 | 20 6 | 4 33 | 23 20 | 0 23 | 22 52 | 0 53 | 21 17 | 0 41 | 22 40 | 0 5 | 20 31 | 2 16 | 23 42 | 23 42 | 0 51 | | n.a. |
| M 7 | 16 8 | 16 32 | 4 24 | 21 54 | 2 4 | 2 51 | 2 0 | 20 13 | 4 33 | 23 19 | 0 24 | 22 53 | 0 53 | 21 18 | 0 41 | 22 40 | 0 5 | 20 31 | 2 16 | 23 42 | 23 42 | 0 48 | | n.a. |
| T 8 | 15 49 | 20 19 | 3 39 | 21 31 | 2 5 | 3 20 | 2 7 | 20 20 | 4 33 | 23 17 | 0 24 | 22 54 | 0 53 | 21 18 | 0 41 | 22 40 | 0 5 | 20 31 | 2 16 | 23 42 | 23 42 | 0 45 | | n.a. |
| W 9 | 15 31 | 22 54 | 2 42 | 21 7 | 2 6 | 3 49 | 2 13 | 20 27 | 4 32 | 23 16 | 0 24 | 22 54 | 0 53 | 21 19 | 0 41 | 22 41 | 0 5 | 20 31 | 2 16 | 23 42 | 23 42 | 0 42 | | n.a. |
| T 10 | 15 12 | 24 11 | 1 38 | 20 41 | 2 7 | 4 18 | 2 19 | 20 34 | 4 32 | 23 15 | 0 24 | 22 55 | 0 53 | 21 19 | 0 41 | 22 41 | 0 5 | 20 31 | 2 16 | 23 42 | 23 42 | 0 39 | | n.a. |
| F 11 | 14 53 | 24 8 | 0 30 | 20 13 | 2 7 | 4 47 | 2 26 | 20 41 | 4 31 | 23 14 | 0 24 | 22 56 | 0 53 | 21 20 | 0 41 | 22 41 | 0 5 | 20 31 | 2 15 | 23 42 | 23 42 | 0 37 | | n.a. |
| S 12 | 14 34 | 22 50 | 0s37 | 19 43 | 2 6 | 5 15 | 2 32 | 20 47 | 4 30 | 23 12 | 0 24 | 22 56 | 0 53 | 21 20 | 0 41 | 22 41 | 0 5 | 20 31 | 2 15 | 23 42 | 23 42 | 0 34 | | n.a. |
| S 13 | 14 14 | 20 28 | 1 42 | 19 12 | 2 5 | 5 43 | 2 39 | 20 53 | 4 30 | 23 11 | 0 24 | 22 57 | 0 53 | 21 20 | 0 40 | 22 41 | 0 5 | 20 31 | 2 15 | 23 42 | 23 42 | 0 31 | | n.a. |
| M14 | 13 55 | 17 12 | 2 41 | 18 39 | 2 4 | 6 11 | 2 45 | 20 59 | 4 29 | 23 9 | 0 25 | 22 58 | 0 53 | 21 21 | 0 40 | 22 41 | 0 5 | 20 31 | 2 15 | 23 42 | 23 42 | 0 28 | | n.a. |
| T 15 | 13 35 | 13 15 | 3 32 | 18 4 | 2 2 | 6 39 | 2 52 | 21 5 | 4 28 | 23 8 | 0 25 | 22 58 | 0 54 | 21 21 | 0 40 | 22 42 | 0 5 | 20 32 | 2 15 | 23 42 | 23 42 | 0 25 | | n.a. |
| W16 | 13 15 | 8 49 | 4 13 | 17 27 | 2 0 | 7 6 | 2 59 | 21 11 | 4 27 | 23 7 | 0 25 | 22 59 | 0 54 | 21 22 | 0 40 | 22 42 | 0 5 | 20 32 | 2 15 | 23 42 | 23 42 | 0 23 | | n.a. |
| T 17 | 12 54 | 4 5 | 4 42 | 16 49 | 1 57 | 7 33 | 3 5 | 21 16 | 4 25 | 23 5 | 0 25 | 22 59 | 0 54 | 21 22 | 0 40 | 22 42 | 0 5 | 20 32 | 2 15 | 23 42 | 23 42 | 0 20 | | n.a. |
| F 18 | 12 34 | 0s46 | 5 0 | 16 8 | 1 54 | 8 0 | 3 12 | 21 21 | 4 24 | 23 4 | 0 25 | 23 0 | 0 54 | 21 23 | 0 40 | 22 42 | 0 5 | 20 32 | 2 15 | 23 42 | 23 42 | 0 17 | | n.a. |
| S 19 | 12 13 | 5 34 | 5 4 | 15 26 | 1 50 | 8 26 | 3 18 | 21 26 | 4 23 | 23 2 | 0 25 | 23 1 | 0 54 | 21 23 | 0 40 | 22 42 | 0 5 | 20 32 | 2 15 | 23 42 | 23 42 | 0 14 | | n.a. |
| S 20 | 11 52 | 10 11 | 4 55 | 14 43 | 1 45 | 8 53 | 3 25 | 21 31 | 4 21 | 23 1 | 0 25 | 23 1 | 0 54 | 21 24 | 0 40 | 22 42 | 0 5 | 20 32 | 2 14 | 23 42 | 23 42 | 0 11 | | n.a. |
| M21 | 11 31 | 14 26 | 4 33 | 13 57 | 1 40 | 9 18 | 3 32 | 21 35 | 4 20 | 23 0 | 0 26 | 23 2 | 0 54 | 21 24 | 0 40 | 22 42 | 0 5 | 20 32 | 2 14 | 23 42 | 23 42 | 0 9 | | n.a. |
| T 22 | 11 10 | 18 10 | 3 59 | 13 10 | 1 34 | 9 44 | 3 38 | 21 39 | 4 18 | 22 58 | 0 26 | 23 2 | 0 54 | 21 24 | 0 40 | 22 43 | 0 5 | 20 32 | 2 14 | 23 42 | 23 42 | 0 6 | | n.a. |
| W23 | 10 48 | 21 10 | 3 13 | 12 22 | 1 28 | 10 9 | 3 45 | 21 43 | 4 16 | 22 57 | 0 26 | 23 3 | 0 54 | 21 25 | 0 40 | 22 43 | 0 5 | 20 32 | 2 14 | 23 42 | 23 42 | 0 3 | | n.a. |
| T 24 | 10 27 | 23 14 | 2 17 | 11 32 | 1 21 | 10 33 | 3 52 | 21 47 | 4 14 | 22 55 | 0 26 | 23 3 | 0 54 | 21 25 | 0 40 | 22 43 | 0 5 | 20 32 | 2 14 | 23 42 | 23 42 | 0 0 | | n.a. |
| F 25 | 10 5 | 24 9 | 1 13 | 10 40 | 1 14 | 10 58 | 3 58 | 21 50 | 4 12 | 22 54 | 0 26 | 23 3 | 0 54 | 21 26 | 0 40 | 22 43 | 0 5 | 20 32 | 2 14 | 23 42 | 23 42 | 0s 3 | | n.a. |
| S 26 | 9 43 | 23 45 | 0 3 | 9 47 | 1 6 | 11 21 | 4 5 | 21 53 | 4 10 | 22 52 | 0 26 | 23 4 | 0 54 | 21 26 | 0 40 | 22 43 | 0 5 | 20 33 | 2 14 | 23 42 | 23 42 | 0 5 | | n.a. |
| S 27 | 9 21 | 21 56 | 1n 9 | 8 53 | 0 58 | 11 45 | 4 12 | 21 56 | 4 8 | 22 51 | 0 27 | 23 4 | 0 54 | 21 26 | 0 40 | 22 43 | 0 5 | 20 33 | 2 14 | 23 42 | 23 42 | 0 8 | | n.a. |
| M28 | 8s59 | 18s42 | 2n20 | 7s57 | 0s49 | 12n 8 | 4n18 | 21n59 | 4n 6 | 22s49 | 0s27 | 23n 5 | 0n54 | 21n27 | 0n40 | 22n43 | 0s 5 | 20n33 | 2s13 | 23s42 | 23s42 | 0s11 | | n.a. |

Julian Day Number = 1701000.5, Delta T = 03h05m34s
Ecliptic obliquity = 23°42'06, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°50'08, Lahiri = - 4°43'08 Julian Calendar 1 Feb. 56 BCE == Greg. Calendar 30 Jan. 056 BCE

The year -55 astronomical counting style corresponds to year 056 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 56 BCE
# geocentric

## MARCH 56 BCE (-55) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 10 24 27 | 8♓ 7'21 | 11♒39 | 13♓52 | 21♈22 | 9°R23 | 18♑53 | 19°R59 | 27°R58 | 15°R22 | 14♊12 | 29°R34 | 28♐34 | 18♍55 | n.a. | T 1 |
| W 2 | 10 28 24 | 9° 6'30 | 26°41 | 15°55 | 22° 4 | 9♌ 8 | 19° 4 | 19♋57 | 27♋57 | 15♋21 | 14°12 | 29♐26 | 28°31 | 19° 2 | n.a. | W 2 |
| T 3 | 10 32 20 | 10° 5'38 | 11♓57 | 17°57 | 22°44 | 8°54 | 19°16 | 19°54 | 27°55 | 15°20 | 14°12 | 29°16 | 28°28 | 19° 8 | n.a. | T 3 |
| F 4 | 10 36 17 | 11° 4'43 | 27°16 | 19°59 | 23°24 | 8°40 | 19°27 | 19°52 | 27°53 | 15°19 | 14°12 | 29° 6 | 28°25 | 19°15 | n.a. | F 4 |
| S 5 | 10 40 13 | 12° 3'46 | 12♈27 | 22° 0 | 24° 2 | 8°27 | 19°39 | 19°50 | 27°51 | 15°18 | 14°12 | 28°56 | 28°22 | 19°22 | n.a. | S 5 |
| S 6 | 10 44 10 | 13° 2'47 | 27°19 | 24° 0 | 24°39 | 8°15 | 19°50 | 19°48 | 27°50 | 15°18 | 14°13 | 28°48 | 28°18 | 19°28 | n.a. | S 6 |
| M 7 | 10 48 6 | 14° 1'45 | 11♉46 | 25°58 | 25°15 | 8° 4 | 20° 1 | 19°46 | 27°48 | 15°17 | 14°13 | 28°42 | 28°15 | 19°35 | n.a. | M 7 |
| T 8 | 10 52 3 | 15° 0'41 | 25°44 | 27°54 | 25°49 | 7°54 | 20°12 | 19°45 | 27°47 | 15°16 | 14°13 | 28°38 | 28°12 | 19°42 | n.a. | T 8 |
| W 9 | 10 55 59 | 15°59'35 | 9♊14 | 29°48 | 26°22 | 7°44 | 20°23 | 19°43 | 27°45 | 15°15 | 14°13 | 28°37 | 28° 9 | 19°49 | n.a. | W 9 |
| T 10 | 10 59 56 | 16°58'26 | 22°19 | 1♈39 | 26°53 | 7°35 | 20°34 | 19°41 | 27°44 | 15°15 | 14°13 | 28°37 | 28° 6 | 19°55 | n.a. | T 10 |
| F 11 | 11 3 53 | 17°57'15 | 5♋ 1 | 3°27 | 27°23 | 7°27 | 20°44 | 19°40 | 27°42 | 15°14 | 14°14 | 28°37 | 28° 3 | 20° 2 | n.a. | F 11 |
| S 12 | 11 7 49 | 18°56'02 | 17°27 | 5°11 | 27°52 | 7°20 | 20°55 | 19°39 | 27°41 | 15°14 | 14°14 | 28°36 | 27°59 | 20° 9 | n.a. | S 12 |
| S 13 | 11 11 46 | 19°54'46 | 29°39 | 6°51 | 28°19 | 7°13 | 21° 5 | 19°37 | 27°40 | 15°13 | 14°14 | 28°32 | 27°56 | 20°15 | n.a. | S 13 |
| M14 | 11 15 42 | 20°53'28 | 11♌42 | 8°28 | 28°44 | 7° 8 | 21°16 | 19°36 | 27°38 | 15°13 | 14°14 | 28°26 | 27°53 | 20°22 | n.a. | M14 |
| T 15 | 11 19 39 | 21°52'07 | 23°39 | 10° 0 | 29° 7 | 7° 3 | 21°26 | 19°35 | 27°37 | 15°12 | 14°15 | 28°17 | 27°50 | 20°29 | n.a. | T 15 |
| W16 | 11 23 35 | 22°50'45 | 5♍33 | 11°28 | 29°29 | 6°58 | 21°36 | 19°34 | 27°36 | 15°12 | 14°15 | 28° 6 | 27°47 | 20°36 | n.a. | W16 |
| T 17 | 11 27 32 | 23°49'20 | 17°26 | 12°51 | 29°48 | 6°55 | 21°46 | 19°33 | 27°35 | 15°11 | 14°15 | 27°52 | 27°43 | 20°42 | n.a. | T 17 |
| F 18 | 11 31 28 | 24°47'53 | 29°19 | 14° 9 | 0♉ 6 | 6°53 | 21°56 | 19°33 | 27°34 | 15°11 | 14°16 | 27°38 | 27°40 | 20°49 | n.a. | F 18 |
| S 19 | 11 35 25 | 25°46'24 | 11♎13 | 15°21 | 0°22 | 6°51 | 22° 6 | 19°32 | 27°33 | 15°11 | 14°16 | 27°24 | 27°37 | 20°56 | n.a. | S 19 |
| S 20 | 11 39 21 | 26°44'53 | 23°10 | 16°29 | 0°35 | 6°50 | 22°16 | 19°32 | 27°32 | 15°10 | 14°17 | 27°11 | 27°34 | 21° 3 | n.a. | S 20 |
| M21 | 11 43 18 | 27°43'21 | 5♏12 | 17°31 | 0°47 | 6°D49 | 22°26 | 19°31 | 27°31 | 15°10 | 14°17 | 27° 1 | 27°31 | 21° 9 | n.a. | M21 |
| T 22 | 11 47 15 | 28°41'46 | 17°20 | 18°28 | 0°56 | 6°50 | 22°35 | 19°31 | 27°30 | 15°10 | 14°18 | 26°54 | 27°28 | 21°16 | n.a. | T 22 |
| W23 | 11 51 11 | 29°40'10 | 29°38 | 19°19 | 1° 4 | 6°51 | 22°45 | 19°31 | 27°29 | 15° 9 | 14°18 | 26°49 | 27°24 | 21°23 | n.a. | W23 |
| T 24 | 11 55 8 | 0♈38'32 | 12♐10 | 20° 4 | 1° 8 | 6°53 | 22°54 | 19°D31 | 27°28 | 15° 9 | 14°19 | 26°47 | 27°21 | 21°29 | n.a. | T 24 |
| F 25 | 11 59 4 | 1°36'53 | 24°59 | 20°44 | 1°11 | 6°55 | 23° 3 | 19°31 | 27°28 | 15° 9 | 14°19 | 26°47 | 27°18 | 21°36 | n.a. | F 25 |
| S 26 | 12 3 1 | 2°35'12 | 8♑ 9 | 21°18 | 1°R11 | 6°59 | 23°12 | 19°31 | 27°27 | 15° 9 | 14°20 | 26°47 | 27°15 | 21°43 | n.a. | S 26 |
| S 27 | 12 6 57 | 3°33'29 | 21°43 | 21°47 | 1° 9 | 7° 3 | 23°21 | 19°31 | 27°26 | 15° 9 | 14°21 | 26°46 | 27°12 | 21°50 | n.a. | S 27 |
| M28 | 12 10 54 | 4°31'45 | 5♒45 | 22° 9 | 1° 5 | 7° 7 | 23°30 | 19°31 | 27°26 | 15° 9 | 14°21 | 26°43 | 27° 9 | 21°56 | n.a. | M28 |
| T 29 | 12 14 50 | 5°29'59 | 20°14 | 22°26 | 0°58 | 7°13 | 23°38 | 19°32 | 27°25 | 15°D 9 | 14°22 | 26°38 | 27° 5 | 22° 3 | n.a. | T 29 |
| W30 | 12 18 47 | 6°28'11 | 5♓ 7 | 22°37 | 0°48 | 7°19 | 23°47 | 19°32 | 27°25 | 15° 9 | 14°22 | 26°30 | 27° 2 | 22°10 | n.a. | W30 |
| T 31 | 12 22 44 | 7♈26'22 | 20♓17 | 22♈43 | 0♉37 | 7♌26 | 23♑55 | 19♋33 | 27♋24 | 15♋ 9 | 14♊23 | 26♐20 | 26♐59 | 22♍16 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 8s37 | 14s14 | 3n23 | 7s 1 | 0s39 | 12n30 | 4n25 | 22n 1 | 4n 4 | 22s48 | 0s27 | 23n 5 | 0n54 | 21n27 | 0n40 | 22n43 | 0s 5 | 20n33 | 2s13 | 23s42 | 23s42 | 0s14 | | | n.a. |
| W 2 | 8 14 | 8 46 | 4 14 | 6 4 | 0 29 | 12 52 | 4 31 | 22 3 | 4 2 | 22 46 | 0 27 | 23 5 | 0 54 | 21 27 | 0 40 | 22 44 | 0 5 | 20 33 | 2 13 | 23 42 | 23 42 | 0 16 | | | n.a. |
| T 3 | 7 52 | 2 43 | 4 48 | 5 6 | 0 19 | 13 13 | 4 38 | 22 5 | 4 0 | 22 45 | 0 27 | 23 6 | 0 54 | 21 28 | 0 40 | 22 44 | 0 5 | 20 33 | 2 13 | 23 42 | 23 42 | 0 19 | | | n.a. |
| F 4 | 7 29 | 3n30 | 5 1 | 4 8 | 0 8 | 13 34 | 4 44 | 22 6 | 3 57 | 22 44 | 0 27 | 23 6 | 0 54 | 21 28 | 0 40 | 22 44 | 0 5 | 20 33 | 2 13 | 23 42 | 23 42 | 0 22 | | | n.a. |
| S 5 | 7 7 | 9 28 | 4 53 | 3 9 | 0n 3 | 13 55 | 4 50 | 22 7 | 3 55 | 22 42 | 0 28 | 23 7 | 0 54 | 21 28 | 0 40 | 22 44 | 0 5 | 20 33 | 2 13 | 23 42 | 23 41 | 0 25 | | | n.a. |
| S 6 | 6 44 | 14 45 | 4 26 | 2 11 | 0 15 | 14 14 | 4 57 | 22 8 | 3 53 | 22 41 | 0 28 | 23 7 | 0 54 | 21 29 | 0 40 | 22 44 | 0 5 | 20 33 | 2 13 | 23 42 | 23 41 | 0 28 | | | n.a. |
| M 7 | 6 21 | 19 2 | 3 41 | 1 13 | 0 26 | 14 33 | 5 3 | 22 9 | 3 50 | 22 39 | 0 28 | 23 7 | 0 54 | 21 29 | 0 40 | 22 44 | 0 5 | 20 34 | 2 13 | 23 42 | 23 41 | 0 30 | | | n.a. |
| T 8 | 5 58 | 22 4 | 2 45 | 0 16 | 0 38 | 14 52 | 5 9 | 22 10 | 3 48 | 22 38 | 0 28 | 23 7 | 0 54 | 21 29 | 0 40 | 22 44 | 0 5 | 20 34 | 2 13 | 23 42 | 23 41 | 0 33 | | | n.a. |
| W 9 | 5 35 | 23 44 | 1 41 | 0n41 | 0 50 | 15 10 | 5 15 | 22 10 | 3 45 | 22 36 | 0 28 | 23 8 | 0 54 | 21 30 | 0 40 | 22 44 | 0 5 | 20 34 | 2 12 | 23 42 | 23 41 | 0 36 | | | n.a. |
| T 10 | 5 12 | 24 2 | 0 33 | 1 36 | 1 2 | 15 27 | 5 21 | 22 10 | 3 43 | 22 35 | 0 28 | 23 8 | 0 54 | 21 30 | 0 40 | 22 44 | 0 5 | 20 34 | 2 12 | 23 42 | 23 41 | 0 39 | | | n.a. |
| F 11 | 4 49 | 23 2 | 0s34 | 2 30 | 1 13 | 15 43 | 5 27 | 22 9 | 3 40 | 22 33 | 0 29 | 23 8 | 0 54 | 21 30 | 0 40 | 22 44 | 0 5 | 20 34 | 2 12 | 23 42 | 23 41 | 0 41 | | | n.a. |
| S 12 | 4 26 | 20 56 | 1 38 | 3 23 | 1 25 | 15 59 | 5 32 | 22 9 | 3 38 | 22 32 | 0 29 | 23 8 | 0 54 | 21 30 | 0 40 | 22 45 | 0 5 | 20 34 | 2 12 | 23 42 | 23 41 | 0 44 | | | n.a. |
| S 13 | 4 2 | 17 54 | 2 36 | 4 13 | 1 36 | 16 14 | 5 38 | 22 8 | 3 35 | 22 30 | 0 29 | 23 8 | 0 54 | 21 31 | 0 40 | 22 45 | 0 5 | 20 34 | 2 12 | 23 42 | 23 41 | 0 47 | | | n.a. |
| M14 | 3 39 | 14 9 | 3 27 | 5 2 | 1 47 | 16 28 | 5 43 | 22 7 | 3 33 | 22 29 | 0 29 | 23 9 | 0 54 | 21 31 | 0 40 | 22 45 | 0 5 | 20 35 | 2 12 | 23 42 | 23 41 | 0 50 | | | n.a. |
| T 15 | 3 16 | 9 54 | 4 7 | 5 48 | 1 57 | 16 41 | 5 48 | 22 6 | 3 30 | 22 27 | 0 29 | 23 9 | 0 54 | 21 31 | 0 40 | 22 45 | 0 5 | 20 35 | 2 12 | 23 41 | 23 41 | 0 52 | | | n.a. |
| W16 | 2 52 | 5 17 | 4 37 | 6 32 | 2 7 | 16 54 | 5 53 | 22 5 | 3 28 | 22 26 | 0 30 | 23 9 | 0 54 | 21 31 | 0 40 | 22 45 | 0 5 | 20 35 | 2 12 | 23 41 | 23 41 | 0 55 | | | n.a. |
| T 17 | 2 29 | 0 30 | 4 54 | 7 13 | 2 17 | 17 6 | 5 58 | 22 3 | 3 25 | 22 24 | 0 30 | 23 9 | 0 54 | 21 31 | 0 40 | 22 45 | 0 5 | 20 35 | 2 12 | 23 41 | 23 41 | 0 58 | | | n.a. |
| F 18 | 2 5 | 4s17 | 4 59 | 7 52 | 2 25 | 17 16 | 6 3 | 22 1 | 3 23 | 22 23 | 0 30 | 23 9 | 0 54 | 21 32 | 0 40 | 22 45 | 0 5 | 20 35 | 2 11 | 23 41 | 23 41 | 1 1 | | | n.a. |
| S 19 | 1 42 | 8 56 | 4 51 | 8 28 | 2 33 | 17 26 | 6 7 | 21 59 | 3 20 | 22 22 | 0 30 | 23 9 | 0 54 | 21 32 | 0 40 | 22 45 | 0 5 | 20 35 | 2 11 | 23 41 | 23 41 | 1 3 | | | n.a. |
| S 20 | 1 18 | 13 16 | 4 30 | 9 1 | 2 40 | 17 35 | 6 11 | 21 57 | 3 17 | 22 20 | 0 30 | 23 9 | 0 54 | 21 32 | 0 40 | 22 45 | 0 5 | 20 36 | 2 11 | 23 40 | 23 41 | 1 6 | | | n.a. |
| M21 | 0 55 | 17 6 | 3 56 | 9 31 | 2 47 | 17 42 | 6 15 | 21 55 | 3 15 | 22 19 | 0 30 | 23 9 | 0 54 | 21 32 | 0 40 | 22 45 | 0 5 | 20 36 | 2 11 | 23 40 | 23 41 | 1 9 | | | n.a. |
| T 22 | 0 31 | 20 15 | 3 12 | 9 58 | 2 52 | 17 49 | 6 18 | 21 52 | 3 12 | 22 17 | 0 31 | 23 9 | 0 54 | 21 32 | 0 40 | 22 45 | 0 5 | 20 36 | 2 11 | 23 40 | 23 41 | 1 12 | | | n.a. |
| W23 | 0 8 | 22 32 | 2 18 | 10 21 | 2 57 | 17 54 | 6 21 | 21 49 | 3 10 | 22 16 | 0 31 | 23 9 | 0 54 | 21 32 | 0 40 | 22 45 | 0 5 | 20 36 | 2 11 | 23 40 | 23 41 | 1 14 | | | n.a. |
| T 24 | 0n15 | 23 46 | 1 16 | 10 42 | 3 0 | 17 59 | 6 24 | 21 46 | 3 7 | 22 15 | 0 31 | 23 10 | 0 54 | 21 33 | 0 40 | 22 45 | 0 5 | 20 36 | 2 11 | 23 40 | 23 40 | 1 17 | | | n.a. |
| F 25 | 0 39 | 23 46 | 0 10 | 11 0 | 3 2 | 18 2 | 6 27 | 21 43 | 3 5 | 22 13 | 0 31 | 23 9 | 0 54 | 21 33 | 0 40 | 22 45 | 0 5 | 20 36 | 2 11 | 23 40 | 23 40 | 1 20 | | | n.a. |
| S 26 | 1 2 | 22 27 | 1n 0 | 11 14 | 3 4 | 18 4 | 6 29 | 21 40 | 3 2 | 22 12 | 0 31 | 23 9 | 0 54 | 21 33 | 0 40 | 22 45 | 0 5 | 20 37 | 2 11 | 23 40 | 23 40 | 1 23 | | | n.a. |
| S 27 | 1 26 | 19 49 | 2 8 | 11 25 | 3 4 | 18 5 | 6 30 | 21 36 | 3 0 | 22 11 | 0 32 | 23 9 | 0 54 | 21 33 | 0 40 | 22 45 | 0 5 | 20 37 | 2 10 | 23 40 | 23 40 | 1 25 | | | n.a. |
| M28 | 1 49 | 15 58 | 3 10 | 11 32 | 3 3 | 18 4 | 6 31 | 21 33 | 2 57 | 22 9 | 0 32 | 23 9 | 0 54 | 21 33 | 0 40 | 22 45 | 0 5 | 20 37 | 2 10 | 23 40 | 23 40 | 1 28 | | | n.a. |
| T 29 | 2 12 | 11 4 | 4 3 | 11 36 | 3 0 | 18 2 | 6 32 | 21 29 | 2 55 | 22 8 | 0 32 | 23 9 | 0 54 | 21 33 | 0 40 | 22 45 | 0 5 | 20 37 | 2 10 | 23 40 | 23 40 | 1 31 | | | n.a. |
| W30 | 2 36 | 5 24 | 4 40 | 11 37 | 2 57 | 17 59 | 6 32 | 21 25 | 2 52 | 22 7 | 0 32 | 23 9 | 0 54 | 21 33 | 0 40 | 22 45 | 0 5 | 20 37 | 2 10 | 23 39 | 23 40 | 1 34 | | | n.a. |
| T 31 | 2n59 | 0n41 | 4n59 | 11n35 | 2n52 | 17n54 | 6n32 | 21n21 | 2n50 | 22s 5 | 0s32 | 23n 9 | 0n54 | 21n33 | 0n40 | 22n45 | 0s 4 | 20n37 | 2s10 | 23s39 | 23s40 | 1s36 | | | n.a. |

Julian Day Number = 1701028.5, Delta T = 03h05m34s
Ecliptic obliquity = 23°42'07, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°50'04, Lahiri = - 4°43'04 Julian Calendar 1 March 56 BCE == Greg. Calendar 27 Feb. 056 BCE

The year -55 astronomical counting style corresponds to year 056 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 56 BCE
# geocentric

## APRIL 56 BCE (-55) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 12 26 40 | 8♈24'31 | 5♈34 | 22°R43 | 0°R22 | 7♌33 | 24♏ 4 | 19♋34 | 27°R24 | 15♋ 9 | 14♊24 | 26°R10 | 26♐56 | 22♍23 | n.a. | F 1 |
| S 2 | 12 30 37 | 9°22'38 | 20°47 | 22♈38 | 0♉ 6 | 7°41 | 24°12 | 19°35 | 27♋24 | 15° 9 | 14°25 | 25♐59 | 26°53 | 22°30 | n.a. | S 2 |
| S 3 | 12 34 33 | 10°20'43 | 5♉46 | 22°27 | 29♈47 | 7°50 | 24°20 | 19°36 | 27°24 | 15° 9 | 14°25 | 25°50 | 26°49 | 22°37 | n.a. | S 3 |
| M 4 | 12 38 30 | 11°18'47 | 20°21 | 22°12 | 29°25 | 7°59 | 24°28 | 19°37 | 27°23 | 15° 9 | 14°26 | 25°44 | 26°46 | 22°43 | n.a. | M 4 |
| T 5 | 12 42 26 | 12°16'48 | 4♊28 | 21°53 | 29° 2 | 8° 9 | 24°35 | 19°38 | 27°23 | 15°10 | 14°27 | 25°40 | 26°43 | 22°50 | n.a. | T 5 |
| W 6 | 12 46 23 | 13°14'48 | 18° 6 | 21°29 | 28°36 | 8°19 | 24°43 | 19°39 | 27°23 | 15°10 | 14°28 | 25°39 | 26°40 | 22°57 | n.a. | W 6 |
| T 7 | 12 50 19 | 14°12'46 | 1♋16 | 21° 2 | 28° 9 | 8°31 | 24°50 | 19°41 | 27°D23 | 15°10 | 14°29 | 25°D38 | 26°37 | 23° 4 | n.a. | T 7 |
| F 8 | 12 54 16 | 15°10'42 | 14° 2 | 20°32 | 27°39 | 8°42 | 24°57 | 19°42 | 27°23 | 15°11 | 14°29 | 25°R39 | 26°34 | 23°10 | n.a. | F 8 |
| S 9 | 12 58 13 | 16° 8'35 | 26°27 | 19°59 | 27° 8 | 8°54 | 25° 5 | 19°44 | 27°23 | 15°11 | 14°30 | 25°38 | 26°30 | 23°17 | n.a. | S 9 |
| S 10 | 13 2 9 | 17° 6'27 | 8♌38 | 19°25 | 26°35 | 9° 7 | 25°12 | 19°46 | 27°23 | 15°11 | 14°31 | 25°36 | 26°27 | 23°24 | n.a. | S 10 |
| M11 | 13 6 6 | 18° 4'17 | 20°38 | 18°49 | 26° 0 | 9°21 | 25°18 | 19°47 | 27°23 | 15°12 | 14°32 | 25°32 | 26°24 | 23°30 | n.a. | M11 |
| T 12 | 13 10 2 | 19° 2'05 | 2♍32 | 18°13 | 25°25 | 9°34 | 25°25 | 19°49 | 27°24 | 15°12 | 14°33 | 25°25 | 26°21 | 23°37 | n.a. | T 12 |
| W13 | 13 13 59 | 19°59'52 | 14°24 | 17°36 | 24°48 | 9°49 | 25°32 | 19°51 | 27°24 | 15°13 | 14°34 | 25°15 | 26°18 | 23°44 | n.a. | W13 |
| T 14 | 13 17 55 | 20°57'37 | 26°16 | 17° 0 | 24°11 | 10° 4 | 25°38 | 19°54 | 27°24 | 15°13 | 14°35 | 25° 4 | 26°14 | 23°51 | n.a. | T 14 |
| F 15 | 13 21 52 | 21°55'20 | 8♎11 | 16°26 | 23°33 | 10°19 | 25°44 | 19°56 | 27°25 | 15°14 | 14°36 | 24°52 | 26°11 | 23°57 | n.a. | F 15 |
| S 16 | 13 25 48 | 22°53'01 | 20° 9 | 15°53 | 22°55 | 10°35 | 25°50 | 19°58 | 27°25 | 15°14 | 14°37 | 24°41 | 26° 8 | 24° 4 | n.a. | S 16 |
| S 17 | 13 29 45 | 23°50'41 | 2♏14 | 15°23 | 22°17 | 10°51 | 25°56 | 20° 0 | 27°26 | 15°15 | 14°38 | 24°31 | 26° 5 | 24°11 | n.a. | S 17 |
| M18 | 13 33 41 | 24°48'20 | 14°25 | 14°55 | 21°39 | 11° 8 | 26° 2 | 20° 3 | 27°26 | 15°15 | 14°39 | 24°22 | 26° 2 | 24°17 | n.a. | M18 |
| T 19 | 13 37 38 | 25°45'57 | 26°44 | 14°31 | 21° 2 | 11°25 | 26° 8 | 20° 6 | 27°27 | 15°16 | 14°40 | 24°16 | 25°59 | 24°24 | n.a. | T 19 |
| W20 | 13 41 35 | 26°43'34 | 9♐13 | 14°10 | 20°26 | 11°43 | 26°13 | 20° 8 | 27°27 | 15°17 | 14°41 | 24°13 | 25°55 | 24°31 | n.a. | W20 |
| T 21 | 13 45 31 | 27°41'09 | 21°55 | 13°54 | 19°50 | 12° 1 | 26°18 | 20°11 | 27°28 | 15°18 | 14°42 | 24°D12 | 25°52 | 24°38 | n.a. | T 21 |
| F 22 | 13 49 28 | 28°38'43 | 4♑50 | 13°41 | 19°16 | 12°20 | 26°23 | 20°14 | 27°29 | 15°18 | 14°43 | 24°12 | 25°49 | 24°44 | n.a. | F 22 |
| S 23 | 13 53 24 | 29°36'16 | 18° 3 | 13°33 | 18°43 | 12°39 | 26°28 | 20°17 | 27°30 | 15°19 | 14°45 | 24°13 | 25°46 | 24°51 | n.a. | S 23 |
| S 24 | 13 57 21 | 0♉33'48 | 1♒36 | 13°D29 | 18°11 | 12°58 | 26°33 | 20°20 | 27°31 | 15°20 | 14°46 | 24°R14 | 25°43 | 24°58 | n.a. | S 24 |
| M25 | 14 1 17 | 1°31'19 | 15°30 | 13°29 | 17°42 | 13°18 | 26°38 | 20°23 | 27°32 | 15°21 | 14°47 | 24°13 | 25°40 | 25° 5 | n.a. | M25 |
| T 26 | 14 5 14 | 2°28'49 | 29°46 | 13°34 | 17°14 | 13°38 | 26°42 | 20°27 | 27°32 | 15°22 | 14°48 | 24°10 | 25°36 | 25°11 | n.a. | T 26 |
| W27 | 14 9 10 | 3°26'18 | 14♓22 | 13°44 | 16°48 | 13°59 | 26°46 | 20°30 | 27°34 | 15°23 | 14°49 | 24° 5 | 25°33 | 25°18 | n.a. | W27 |
| T 28 | 14 13 7 | 4°23'46 | 29°14 | 13°58 | 16°25 | 14°20 | 26°50 | 20°33 | 27°35 | 15°23 | 14°50 | 23°59 | 25°30 | 25°25 | n.a. | T 28 |
| F 29 | 14 17 4 | 5°21'14 | 14♈14 | 14°17 | 16° 3 | 14°41 | 26°54 | 20°37 | 27°36 | 15°24 | 14°52 | 23°52 | 25°27 | 25°31 | n.a. | F 29 |
| S 30 | 14 21 0 | 6♉18'40 | 29♈13 | 14♈40 | 15♈44 | 15♌ 3 | 26♏58 | 20♋41 | 27♋37 | 15♋25 | 14♊53 | 23♐44 | 25♐24 | 25♍38 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 3n22 | 6n46 | 4n57 | 11n29 | 2n46 | 17n48 | 6n31 | 21n17 | 2n47 | 22s 4 | 0s33 | 23n 9 | 0n54 | 21n33 | 0n40 | 22n45 | 0s 4 | 20n38 | 2s10 | 23s39 | 23s40 | 1s39 | | n.a. |
| S 2 | 3 45 | 12 25 | 4 33 | 11 20 | 2 38 | 17 41 | 6 29 | 21 12 | 2 45 | 22 3 | 0 33 | 23 9 | 0 54 | 21 33 | 0 39 | 22 45 | 0 4 | 20 38 | 2 10 | 23 38 | 23 40 | 1 42 | | n.a. |
| S 3 | 4 8 | 17 13 | 3 52 | 11 8 | 2 29 | 17 32 | 6 27 | 21 7 | 2 42 | 22 2 | 0 33 | 23 9 | 0 54 | 21 33 | 0 39 | 22 45 | 0 4 | 20 38 | 2 10 | 23 38 | 23 40 | 1 45 | | n.a. |
| M 4 | 4 31 | 20 50 | 2 55 | 10 53 | 2 19 | 17 21 | 6 24 | 21 3 | 2 40 | 22 1 | 0 33 | 23 9 | 0 54 | 21 33 | 0 39 | 22 45 | 0 4 | 20 38 | 2 10 | 23 38 | 23 40 | 1 47 | | n.a. |
| T 5 | 4 54 | 23 4 | 1 50 | 10 36 | 2 8 | 17 9 | 6 20 | 20 58 | 2 38 | 21 59 | 0 33 | 23 8 | 0 54 | 21 33 | 0 39 | 22 45 | 0 4 | 20 38 | 2 10 | 23 38 | 23 40 | 1 50 | | n.a. |
| W 6 | 5 17 | 23 49 | 0 40 | 10 15 | 1 56 | 16 56 | 6 16 | 20 53 | 2 35 | 21 58 | 0 34 | 23 8 | 0 54 | 21 33 | 0 39 | 22 45 | 0 4 | 20 39 | 2 9 | 23 38 | 23 40 | 1 53 | | n.a. |
| T 7 | 5 40 | 23 12 | 0s30 | 9 53 | 1 42 | 16 41 | 6 11 | 20 48 | 2 33 | 21 57 | 0 34 | 23 8 | 0 54 | 21 33 | 0 39 | 22 45 | 0 4 | 20 39 | 2 9 | 23 38 | 23 39 | 1 55 | | n.a. |
| F 8 | 6 2 | 21 22 | 1 36 | 9 28 | 1 28 | 16 25 | 6 5 | 20 42 | 2 31 | 21 56 | 0 34 | 23 8 | 0 54 | 21 33 | 0 39 | 22 45 | 0 4 | 20 39 | 2 9 | 23 38 | 23 39 | 1 58 | | n.a. |
| S 9 | 6 25 | 18 33 | 2 36 | 9 1 | 1 13 | 16 7 | 5 59 | 20 37 | 2 28 | 21 55 | 0 34 | 23 7 | 0 54 | 21 33 | 0 39 | 22 45 | 0 4 | 20 39 | 2 9 | 23 38 | 23 39 | 2 1 | | n.a. |
| S 10 | 6 47 | 14 58 | 3 27 | 8 33 | 0 57 | 15 48 | 5 52 | 20 31 | 2 26 | 21 54 | 0 35 | 23 7 | 0 54 | 21 33 | 0 39 | 22 45 | 0 4 | 20 39 | 2 9 | 23 38 | 23 39 | 2 4 | | n.a. |
| M11 | 7 10 | 10 50 | 4 9 | 8 5 | 0 41 | 15 28 | 5 44 | 20 25 | 2 24 | 21 53 | 0 35 | 23 7 | 0 54 | 21 33 | 0 39 | 22 45 | 0 4 | 20 40 | 2 9 | 23 38 | 23 39 | 2 6 | | n.a. |
| T 12 | 7 32 | 6 21 | 4 39 | 7 35 | 0 24 | 15 7 | 5 35 | 20 19 | 2 22 | 21 52 | 0 35 | 23 7 | 0 54 | 21 33 | 0 39 | 22 45 | 0 4 | 20 40 | 2 9 | 23 37 | 23 39 | 2 9 | | n.a. |
| W13 | 7 54 | 1 38 | 4 57 | 7 5 | 0 7 | 14 45 | 5 26 | 20 13 | 2 19 | 21 51 | 0 35 | 23 6 | 0 54 | 21 33 | 0 39 | 22 45 | 0 4 | 20 40 | 2 9 | 23 37 | 23 39 | 2 12 | | n.a. |
| T 14 | 8 16 | 3s 7 | 5 2 | 6 36 | 0s10 | 14 22 | 5 16 | 20 7 | 2 17 | 21 50 | 0 35 | 23 6 | 0 54 | 21 33 | 0 39 | 22 45 | 0 4 | 20 40 | 2 9 | 23 37 | 23 39 | 2 14 | | n.a. |
| F 15 | 8 38 | 7 47 | 4 55 | 6 6 | 0 27 | 13 58 | 5 6 | 20 1 | 2 15 | 21 49 | 0 36 | 23 6 | 0 54 | 21 33 | 0 39 | 22 45 | 0 4 | 20 40 | 2 8 | 23 36 | 23 39 | 2 17 | | n.a. |
| S 16 | 9 0 | 12 10 | 4 34 | 5 38 | 0 44 | 13 33 | 4 54 | 19 54 | 2 13 | 21 48 | 0 36 | 23 5 | 0 54 | 21 33 | 0 39 | 22 45 | 0 4 | 20 41 | 2 8 | 23 36 | 23 39 | 2 20 | | n.a. |
| S 17 | 9 21 | 16 8 | 4 0 | 5 11 | 1 1 | 13 8 | 4 43 | 19 48 | 2 11 | 21 47 | 0 36 | 23 5 | 0 54 | 21 32 | 0 39 | 22 45 | 0 4 | 20 41 | 2 8 | 23 35 | 23 39 | 2 23 | | n.a. |
| M18 | 9 43 | 19 27 | 3 16 | 4 46 | 1 17 | 12 42 | 4 31 | 19 41 | 2 9 | 21 46 | 0 36 | 23 5 | 0 54 | 21 32 | 0 39 | 22 45 | 0 4 | 20 41 | 2 8 | 23 35 | 23 38 | 2 25 | | n.a. |
| T 19 | 10 4 | 21 56 | 2 21 | 4 22 | 1 32 | 12 16 | 4 18 | 19 34 | 2 7 | 21 45 | 0 37 | 23 4 | 0 54 | 21 32 | 0 39 | 22 45 | 0 4 | 20 41 | 2 8 | 23 35 | 23 38 | 2 28 | | n.a. |
| W20 | 10 25 | 23 23 | 1 19 | 4 1 | 1 46 | 11 50 | 4 5 | 19 27 | 2 5 | 21 44 | 0 37 | 23 4 | 0 54 | 21 32 | 0 39 | 22 45 | 0 4 | 20 42 | 2 8 | 23 34 | 23 38 | 2 31 | | n.a. |
| T 21 | 10 46 | 23 39 | 0 12 | 3 42 | 2 0 | 11 24 | 3 52 | 19 20 | 2 3 | 21 44 | 0 37 | 23 3 | 0 54 | 21 32 | 0 39 | 22 45 | 0 4 | 20 42 | 2 8 | 23 34 | 23 38 | 2 33 | | n.a. |
| F 22 | 11 7 | 22 40 | 0n57 | 3 25 | 2 13 | 10 58 | 3 38 | 19 13 | 2 1 | 21 43 | 0 37 | 23 3 | 0 54 | 21 32 | 0 39 | 22 45 | 0 4 | 20 42 | 2 8 | 23 34 | 23 38 | 2 36 | | n.a. |
| S 23 | 11 27 | 20 25 | 2 4 | 3 11 | 2 25 | 10 33 | 3 24 | 19 5 | 1 59 | 21 42 | 0 38 | 23 2 | 0 54 | 21 31 | 0 39 | 22 45 | 0 4 | 20 42 | 2 8 | 23 34 | 23 38 | 2 39 | | n.a. |
| S 24 | 11 48 | 16 59 | 3 7 | 2 59 | 2 36 | 10 8 | 3 10 | 18 58 | 1 57 | 21 42 | 0 38 | 23 2 | 0 54 | 21 31 | 0 39 | 22 44 | 0 4 | 20 42 | 2 8 | 23 34 | 23 38 | 2 42 | | n.a. |
| M25 | 12 8 | 12 33 | 4 0 | 2 50 | 2 46 | 9 43 | 2 56 | 18 50 | 1 55 | 21 41 | 0 38 | 23 1 | 0 54 | 21 31 | 0 39 | 22 44 | 0 4 | 20 43 | 2 8 | 23 34 | 23 38 | 2 44 | | n.a. |
| T 26 | 12 28 | 7 19 | 4 40 | 2 44 | 2 55 | 9 20 | 2 42 | 18 43 | 1 53 | 21 40 | 0 38 | 23 1 | 0 54 | 21 31 | 0 39 | 22 44 | 0 4 | 20 43 | 2 7 | 23 34 | 23 38 | 2 47 | | n.a. |
| W27 | 12 48 | 1 34 | 5 2 | 2 41 | 3 2 | 8 57 | 2 28 | 18 35 | 1 51 | 21 40 | 0 39 | 23 0 | 0 54 | 21 31 | 0 39 | 22 44 | 0 4 | 20 43 | 2 7 | 23 34 | 23 38 | 2 50 | | n.a. |
| T 28 | 13 8 | 4n21 | 5 6 | 2 40 | 3 9 | 8 34 | 2 14 | 18 27 | 1 49 | 21 39 | 0 39 | 23 0 | 0 54 | 21 30 | 0 39 | 22 44 | 0 4 | 20 43 | 2 7 | 23 34 | 23 37 | 2 52 | | n.a. |
| F 29 | 13 27 | 10 5 | 4 48 | 2 42 | 3 15 | 8 13 | 2 0 | 18 18 | 1 47 | 21 39 | 0 39 | 22 59 | 0 54 | 21 30 | 0 39 | 22 44 | 0 4 | 20 44 | 2 7 | 23 33 | 23 37 | 2 55 | | n.a. |
| S 30 | 13n46 | 15n12 | 4n11 | 2n46 | 3s20 | 7n53 | 1n46 | 18n10 | 1n45 | 21s38 | 0s39 | 22n59 | 0n54 | 21n30 | 0n39 | 22n44 | 0s 4 | 20n44 | 2s 7 | 23s33 | 23s37 | 2s58 | | n.a. |

Julian Day Number = 1701059.5, Delta T = 03h05m33s
Ecliptic obliquity = 23°42'07, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°50'00, Lahiri = - 4°43'00 Julian Calendar 1 Apr. 56 BCE == Greg. Calendar 30 March 056 BCE


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# ASTRODIENST EPHEMERIS for the year 56 BCE
# geocentric

## MAY 56 BCE (-55) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 14 24 57 | 7♉16'05 | 14♉ 1 | 15♈ 7 | 15°R27 | 15♌25 | 27♑ 2 | 20♋44 | 27♋38 | 15♋26 | 14♊54 | 23°R38 | 25♐20 | 25♍45 | n.a. | S 1 |
| M 2 | 14 28 53 | 8°13'30 | 28°32 | 15°38 | 15♈13 | 15°48 | 27° 5 | 20°48 | 27°39 | 15°28 | 14°55 | 23♐34 | 25°17 | 25°52 | n.a. | M 2 |
| T 3 | 14 32 50 | 9°10'53 | 12♊39 | 16°14 | 15° 1 | 16°11 | 27° 8 | 20°52 | 27°41 | 15°29 | 14°57 | 23°32 | 25°14 | 25°58 | n.a. | T 3 |
| W 4 | 14 36 46 | 10° 8'15 | 26°20 | 16°53 | 14°51 | 16°34 | 27°11 | 20°56 | 27°42 | 15°30 | 14°58 | 23°D31 | 25°11 | 26° 5 | n.a. | W 4 |
| T 5 | 14 40 43 | 11° 5'36 | 9♋34 | 17°37 | 14°44 | 16°57 | 27°14 | 21° 0 | 27°44 | 15°31 | 14°59 | 23°32 | 25° 8 | 26°12 | n.a. | T 5 |
| F 6 | 14 44 39 | 12° 2'56 | 22°24 | 18°24 | 14°39 | 17°21 | 27°16 | 21° 4 | 27°45 | 15°32 | 15° 1 | 23°34 | 25° 5 | 26°19 | n.a. | F 6 |
| S 7 | 14 48 36 | 13° 0'14 | 4♌54 | 19°15 | 14°37 | 17°45 | 27°19 | 21° 8 | 27°47 | 15°33 | 15° 2 | 23°35 | 25° 1 | 26°25 | n.a. | S 7 |
| S 8 | 14 52 33 | 13°57'32 | 17° 7 | 20° 9 | 14°D36 | 18°10 | 27°21 | 21°13 | 27°48 | 15°35 | 15° 3 | 23°R35 | 24°58 | 26°32 | n.a. | S 8 |
| M 9 | 14 56 29 | 14°54'48 | 29° 8 | 21° 7 | 14°39 | 18°35 | 27°23 | 21°17 | 27°50 | 15°36 | 15° 5 | 23°34 | 24°55 | 26°39 | n.a. | M 9 |
| T 10 | 15 0 26 | 15°52'03 | 11♍ 3 | 22° 9 | 14°43 | 19° 0 | 27°25 | 21°22 | 27°51 | 15°37 | 15° 6 | 23°31 | 24°52 | 26°45 | n.a. | T 10 |
| W11 | 15 4 22 | 16°49'18 | 22°55 | 23°14 | 14°50 | 19°25 | 27°27 | 21°26 | 27°53 | 15°38 | 15° 7 | 23°27 | 24°49 | 26°52 | n.a. | W11 |
| T 12 | 15 8 19 | 17°46'31 | 4♎49 | 24°22 | 14°58 | 19°51 | 27°28 | 21°31 | 27°55 | 15°40 | 15° 9 | 23°21 | 24°46 | 26°59 | n.a. | T 12 |
| F 13 | 15 12 15 | 18°43'43 | 16°47 | 25°34 | 15° 9 | 20°17 | 27°30 | 21°36 | 27°57 | 15°41 | 15°10 | 23°15 | 24°42 | 27° 6 | n.a. | F 13 |
| S 14 | 15 16 12 | 19°40'55 | 28°52 | 26°48 | 15°22 | 20°43 | 27°31 | 21°40 | 27°59 | 15°42 | 15°11 | 23° 9 | 24°39 | 27°12 | n.a. | S 14 |
| S 15 | 15 20 8 | 20°38'06 | 11♏ 5 | 28° 6 | 15°37 | 21°10 | 27°32 | 21°45 | 28° 0 | 15°44 | 15°13 | 23° 4 | 24°36 | 27°19 | n.a. | S 15 |
| M16 | 15 24 5 | 21°35'16 | 23°29 | 29°27 | 15°54 | 21°36 | 27°32 | 21°50 | 28° 2 | 15°45 | 15°14 | 23° 0 | 24°33 | 27°26 | n.a. | M16 |
| T 17 | 15 28 2 | 22°32'26 | 6♐ 4 | 0♑51 | 16°13 | 22° 3 | 27°33 | 21°55 | 28° 4 | 15°47 | 15°16 | 22°57 | 24°30 | 27°32 | n.a. | T 17 |
| W18 | 15 31 58 | 23°29'36 | 18°51 | 2°18 | 16°33 | 22°31 | 27°33 | 22° 0 | 28° 6 | 15°48 | 15°17 | 22°D56 | 24°26 | 27°39 | n.a. | W18 |
| T 19 | 15 35 55 | 24°26'45 | 1♑50 | 3°48 | 16°56 | 22°58 | 27°R34 | 22° 5 | 28° 8 | 15°50 | 15°19 | 22°57 | 24°23 | 27°46 | n.a. | T 19 |
| F 20 | 15 39 51 | 25°23'53 | 15° 2 | 5°22 | 17°20 | 23°26 | 27°34 | 22°11 | 28°11 | 15°51 | 15°20 | 22°58 | 24°20 | 27°53 | n.a. | F 20 |
| S 21 | 15 43 48 | 26°21'02 | 28°28 | 6°58 | 17°46 | 23°54 | 27°33 | 22°16 | 28°13 | 15°53 | 15°21 | 22°59 | 24°17 | 27°59 | n.a. | S 21 |
| S 22 | 15 47 44 | 27°18'10 | 12♒ 8 | 8°37 | 18°13 | 24°23 | 27°33 | 22°21 | 28°15 | 15°54 | 15°23 | 23° 1 | 24°14 | 28° 6 | n.a. | S 22 |
| M23 | 15 51 41 | 28°15'19 | 26° 4 | 10°19 | 18°42 | 24°51 | 27°32 | 22°27 | 28°17 | 15°56 | 15°24 | 23°R 1 | 24°11 | 28°13 | n.a. | M23 |
| T 24 | 15 55 38 | 29°12'27 | 10♓13 | 12° 4 | 19°12 | 25°20 | 27°32 | 22°32 | 28°20 | 15°58 | 15°26 | 23° 1 | 24° 7 | 28°20 | n.a. | T 24 |
| W25 | 15 59 34 | 0♊ 9'35 | 24°34 | 13°52 | 19°44 | 25°49 | 27°31 | 22°38 | 28°22 | 15°59 | 15°27 | 22°59 | 24° 4 | 28°26 | n.a. | W25 |
| T 26 | 16 3 31 | 1° 6'43 | 9♈ 5 | 15°42 | 20°17 | 26°18 | 27°29 | 22°43 | 28°24 | 16° 1 | 15°29 | 22°57 | 24° 1 | 28°33 | n.a. | T 26 |
| F 27 | 16 7 27 | 2° 3'51 | 23°40 | 17°35 | 20°51 | 26°48 | 27°28 | 22°49 | 28°27 | 16° 3 | 15°30 | 22°55 | 23°58 | 28°40 | n.a. | F 27 |
| S 28 | 16 11 24 | 3° 1'00 | 8♉14 | 19°31 | 21°27 | 27°17 | 27°26 | 22°55 | 28°29 | 16° 4 | 15°32 | 22°52 | 23°55 | 28°46 | n.a. | S 28 |
| S 29 | 16 15 20 | 3°58'08 | 22°40 | 21°29 | 22° 3 | 27°47 | 27°25 | 23° 1 | 28°32 | 16° 6 | 15°33 | 22°50 | 23°51 | 28°53 | n.a. | S 29 |
| M30 | 16 19 17 | 4°55'16 | 6♊53 | 23°30 | 22°41 | 28°18 | 27°23 | 23° 6 | 28°34 | 16° 8 | 15°35 | 22°48 | 23°48 | 29° 0 | n.a. | M30 |
| T 31 | 16 23 13 | 5♊52'24 | 20♊48 | 25♉32 | 23♈21 | 28♌48 | 27♑21 | 23♋12 | 28♋37 | 16♋10 | 15♊36 | 22°D48 | 23♐45 | 29♍ 7 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| S 1 | 14n 5 | 19n21 | 3n17 | 2n53 | 3s24 | 7n34 | 1n32 | 18n 2 | 1n43 | 21s38 | 0s40 | 22n58 | 0n54 | 21n30 | 0n39 | 22n44 | 0s 4 | 20n44 | 2s 7 | 23s33 | 23s37 | 3s 0 | | | n.a. |
| M 2 | 14 24 | 22 11 | 2 11 | 3 3 | 3 27 | 7 16 | 1 19 | 17 53 | 1 41 | 21 37 | 0 40 | 22 58 | 0 54 | 21 29 | 0 39 | 22 44 | 0 4 | 20 44 | 2 7 | 23 33 | 23 37 | 3 3 | | | n.a. |
| T 3 | 14 43 | 23 32 | 0 58 | 3 15 | 3 29 | 6 59 | 1 5 | 17 45 | 1 40 | 21 37 | 0 40 | 22 57 | 0 54 | 21 29 | 0 39 | 22 44 | 0 4 | 20 44 | 2 7 | 23 32 | 23 37 | 3 6 | | | n.a. |
| W 4 | 15 1 | 23 24 | 0s15 | 3 29 | 3 30 | 6 43 | 0 52 | 17 36 | 1 38 | 21 37 | 0 40 | 22 56 | 0 54 | 21 29 | 0 39 | 22 43 | 0 4 | 20 45 | 2 7 | 23 32 | 23 37 | 3 8 | | | n.a. |
| T 5 | 15 19 | 21 55 | 1 26 | 3 45 | 3 30 | 6 29 | 0 40 | 17 27 | 1 36 | 21 36 | 0 41 | 22 56 | 0 54 | 21 28 | 0 39 | 22 43 | 0 4 | 20 45 | 2 7 | 23 33 | 23 37 | 3 11 | | | n.a. |
| F 6 | 15 37 | 19 21 | 2 30 | 4 4 | 3 30 | 6 15 | 0 27 | 17 18 | 1 34 | 21 36 | 0 41 | 22 55 | 0 54 | 21 28 | 0 38 | 22 43 | 0 4 | 20 45 | 2 7 | 23 33 | 23 37 | 3 14 | | | n.a. |
| S 7 | 15 55 | 15 56 | 3 25 | 4 24 | 3 28 | 6 3 | 0 15 | 17 9 | 1 32 | 21 36 | 0 41 | 22 54 | 0 54 | 21 28 | 0 38 | 22 43 | 0 4 | 20 45 | 2 6 | 23 33 | 23 36 | 3 16 | | | n.a. |
| S 8 | 16 12 | 11 54 | 4 10 | 4 47 | 3 26 | 5 53 | 0 4 | 16 59 | 1 31 | 21 36 | 0 41 | 22 54 | 0 54 | 21 27 | 0 38 | 22 43 | 0 4 | 20 46 | 2 6 | 23 33 | 23 36 | 3 19 | | | n.a. |
| M 9 | 16 29 | 7 29 | 4 43 | 5 12 | 3 23 | 5 43 | 0s 8 | 16 50 | 1 29 | 21 35 | 0 42 | 22 53 | 0 54 | 21 27 | 0 38 | 22 43 | 0 4 | 20 46 | 2 6 | 23 33 | 23 36 | 3 22 | | | n.a. |
| T 10 | 16 46 | 2 50 | 5 3 | 5 38 | 3 19 | 5 35 | 0 19 | 16 40 | 1 27 | 21 35 | 0 42 | 22 52 | 0 54 | 21 27 | 0 38 | 22 43 | 0 4 | 20 46 | 2 6 | 23 32 | 23 36 | 3 24 | | | n.a. |
| W11 | 17 3 | 1s54 | 5 10 | 6 6 | 3 15 | 5 27 | 0 29 | 16 31 | 1 26 | 21 35 | 0 42 | 22 52 | 0 54 | 21 26 | 0 38 | 22 43 | 0 4 | 20 46 | 2 6 | 23 32 | 23 36 | 3 27 | | | n.a. |
| T 12 | 17 19 | 6 35 | 5 4 | 6 36 | 3 10 | 5 21 | 0 39 | 16 21 | 1 24 | 21 35 | 0 42 | 22 51 | 0 54 | 21 26 | 0 38 | 22 42 | 0 4 | 20 47 | 2 6 | 23 32 | 23 36 | 3 30 | | | n.a. |
| F 13 | 17 35 | 11 2 | 4 45 | 7 8 | 3 4 | 5 16 | 0 49 | 16 11 | 1 22 | 21 35 | 0 43 | 22 50 | 0 54 | 21 25 | 0 38 | 22 42 | 0 4 | 20 47 | 2 6 | 23 32 | 23 36 | 3 32 | | | n.a. |
| S 14 | 17 51 | 15 7 | 4 13 | 7 41 | 2 58 | 5 13 | 0 59 | 16 1 | 1 21 | 21 35 | 0 43 | 22 49 | 0 54 | 21 25 | 0 38 | 22 42 | 0 4 | 20 47 | 2 6 | 23 31 | 23 36 | 3 35 | | | n.a. |
| S 15 | 18 6 | 18 37 | 3 29 | 8 15 | 2 51 | 5 10 | 1 8 | 15 51 | 1 19 | 21 35 | 0 43 | 22 49 | 0 54 | 21 25 | 0 38 | 22 42 | 0 4 | 20 47 | 2 6 | 23 31 | 23 35 | 3 38 | | | n.a. |
| M16 | 18 22 | 21 20 | 2 34 | 8 51 | 2 43 | 5 9 | 1 17 | 15 41 | 1 17 | 21 35 | 0 43 | 22 48 | 0 54 | 21 24 | 0 38 | 22 42 | 0 4 | 20 47 | 2 6 | 23 31 | 23 35 | 3 40 | | | n.a. |
| T 17 | 18 36 | 23 3 | 1 31 | 9 28 | 2 35 | 5 8 | 1 25 | 15 30 | 1 16 | 21 35 | 0 44 | 22 47 | 0 54 | 21 24 | 0 38 | 22 42 | 0 4 | 20 48 | 2 6 | 23 31 | 23 35 | 3 43 | | | n.a. |
| W18 | 18 51 | 23 36 | 0 22 | 10 7 | 2 27 | 5 9 | 1 33 | 15 20 | 1 14 | 21 36 | 0 44 | 22 46 | 0 54 | 21 23 | 0 38 | 22 41 | 0 4 | 20 48 | 2 6 | 23 31 | 23 35 | 3 46 | | | n.a. |
| T 19 | 19 5 | 22 53 | 0n49 | 10 46 | 2 18 | 5 10 | 1 41 | 15 9 | 1 13 | 21 36 | 0 44 | 22 45 | 0 54 | 21 23 | 0 38 | 22 41 | 0 4 | 20 48 | 2 5 | 23 31 | 23 35 | 3 48 | | | n.a. |
| F 20 | 19 19 | 20 53 | 1 58 | 11 26 | 2 8 | 5 13 | 1 48 | 14 58 | 1 11 | 21 36 | 0 44 | 22 45 | 0 54 | 21 22 | 0 38 | 22 41 | 0 4 | 20 48 | 2 5 | 23 31 | 23 35 | 3 51 | | | n.a. |
| S 21 | 19 33 | 17 43 | 3 3 | 12 7 | 1 59 | 5 16 | 1 55 | 14 48 | 1 10 | 21 36 | 0 45 | 22 44 | 0 54 | 21 22 | 0 38 | 22 41 | 0 4 | 20 49 | 2 5 | 23 31 | 23 35 | 3 54 | | | n.a. |
| S 22 | 19 46 | 13 32 | 3 58 | 12 49 | 1 48 | 5 20 | 2 2 | 14 37 | 1 8 | 21 37 | 0 45 | 22 43 | 0 54 | 21 22 | 0 38 | 22 41 | 0 4 | 20 49 | 2 5 | 23 31 | 23 34 | 3 56 | | | n.a. |
| M23 | 19 59 | 8 35 | 4 40 | 13 32 | 1 38 | 5 25 | 2 9 | 14 26 | 1 7 | 21 37 | 0 45 | 22 42 | 0 54 | 21 21 | 0 38 | 22 41 | 0 4 | 20 49 | 2 5 | 23 31 | 23 34 | 3 59 | | | n.a. |
| T 24 | 20 12 | 3 6 | 5 6 | 14 15 | 1 27 | 5 31 | 2 15 | 14 14 | 1 5 | 21 38 | 0 45 | 22 41 | 0 54 | 21 21 | 0 38 | 22 40 | 0 4 | 20 49 | 2 5 | 23 31 | 23 34 | 4 2 | | | n.a. |
| W25 | 20 24 | 2n37 | 5 14 | 14 58 | 1 16 | 5 38 | 2 20 | 14 3 | 1 4 | 21 38 | 0 46 | 22 40 | 0 54 | 21 20 | 0 38 | 22 40 | 0 4 | 20 50 | 2 5 | 23 31 | 23 34 | 4 4 | | | n.a. |
| T 26 | 20 36 | 8 15 | 5 2 | 15 41 | 1 5 | 5 45 | 2 26 | 13 52 | 1 2 | 21 39 | 0 46 | 22 39 | 0 54 | 21 20 | 0 38 | 22 40 | 0 4 | 20 50 | 2 5 | 23 31 | 23 34 | 4 7 | | | n.a. |
| F 27 | 20 48 | 13 28 | 4 30 | 16 25 | 0 53 | 5 54 | 2 31 | 13 40 | 1 1 | 21 39 | 0 46 | 22 38 | 0 54 | 21 19 | 0 38 | 22 40 | 0 4 | 20 50 | 2 5 | 23 31 | 23 34 | 4 9 | | | n.a. |
| S 28 | 20 59 | 17 53 | 3 41 | 17 8 | 0 42 | 6 3 | 2 36 | 13 28 | 0 59 | 21 40 | 0 47 | 22 37 | 0 54 | 21 18 | 0 38 | 22 40 | 0 4 | 20 50 | 2 5 | 23 30 | 23 34 | 4 12 | | | n.a. |
| S 29 | 21 10 | 21 12 | 2 38 | 17 51 | 0 30 | 6 12 | 2 41 | 13 17 | 0 58 | 21 40 | 0 47 | 22 36 | 0 54 | 21 18 | 0 38 | 22 39 | 0 4 | 20 50 | 2 5 | 23 30 | 23 33 | 4 15 | | | n.a. |
| M30 | 21 21 | 23 7 | 1 27 | 18 33 | 0 19 | 6 22 | 2 45 | 13 5 | 0 57 | 21 41 | 0 47 | 22 35 | 0 54 | 21 17 | 0 38 | 22 39 | 0 4 | 20 51 | 2 5 | 23 30 | 23 33 | 4 17 | | | n.a. |
| T 31 | 21n31 | 23n34 | 0n11 | 19n14 | 0s 8 | 6n33 | 2s49 | 12n53 | 0n55 | 21s42 | 0s47 | 22n34 | 0n54 | 21n17 | 0n38 | 22n39 | 0s 4 | 20n51 | 2s 5 | 23s30 | 23s33 | 4s20 | | | n.a. |

Julian Day Number = 1701089.5, Delta T = 03h05m32s
Ecliptic obliquity = 23°42'06, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°49'56, Lahiri = - 4°42'55 Julian Calendar 1 May 56 BCE == Greg. Calendar 29 Apr. 056 BCE

The year -55 astronomical counting style corresponds to year 056 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 56 BCE
# geocentric

## JUNE 56 BCE (-55) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 16 27 10 | 6♊49'32 | 4♋22 | 27♉37 | 24♈ 1 | 29♌19 | 27°R18 | 23♋18 | 28♋39 | 16♋12 | 15♊38 | 22♐48 | 23♐42 | 29♍13 | n.a. | W 1 |
| T 2 | 16 31 7 | 7°46'40 | 17°34 | 29°43 | 24°42 | 29°49 | 27♉16 | 23°24 | 28°42 | 16°13 | 15°39 | 22°49 | 23°39 | 29°20 | n.a. | T 2 |
| F 3 | 16 35 3 | 8°43'48 | 0♌25 | 1♊50 | 25°24 | 0♍20 | 27°13 | 23°31 | 28°45 | 16°15 | 15°41 | 22°50 | 23°36 | 29°27 | n.a. | F 3 |
| S 4 | 16 39 0 | 9°40'55 | 12°56 | 3°58 | 26° 7 | 0°52 | 27°10 | 23°37 | 28°47 | 16°17 | 15°42 | 22°51 | 23°32 | 29°34 | n.a. | S 4 |
| S 5 | 16 42 56 | 10°38'03 | 25°11 | 6° 7 | 26°51 | 1°23 | 27° 7 | 23°43 | 28°50 | 16°19 | 15°44 | 22°52 | 23°29 | 29°40 | n.a. | S 5 |
| M 6 | 16 46 53 | 11°35'10 | 7♍15 | 8°17 | 27°36 | 1°54 | 27° 4 | 23°49 | 28°53 | 16°21 | 15°45 | 22°R53 | 23°26 | 29°47 | n.a. | M 6 |
| T 7 | 16 50 49 | 12°32'17 | 19°11 | 10°27 | 28°22 | 2°26 | 27° 1 | 23°56 | 28°56 | 16°23 | 15°47 | 22°52 | 23°23 | 29°54 | n.a. | T 7 |
| W 8 | 16 54 46 | 13°29'23 | 1♎ 4 | 12°37 | 29° 8 | 2°58 | 26°57 | 24° 2 | 28°59 | 16°25 | 15°49 | 22°52 | 23°20 | 0♎ 0 | n.a. | W 8 |
| T 9 | 16 58 42 | 14°26'30 | 12°59 | 14°47 | 29°56 | 3°30 | 26°53 | 24° 8 | 29° 1 | 16°27 | 15°50 | 22°51 | 23°17 | 0° 7 | n.a. | T 9 |
| F 10 | 17 2 39 | 15°23'37 | 25° 0 | 16°56 | 0♏44 | 4° 3 | 26°49 | 24°15 | 29° 4 | 16°29 | 15°52 | 22°50 | 23°13 | 0°14 | n.a. | F 10 |
| S 11 | 17 6 36 | 16°20'44 | 7♏10 | 19° 4 | 1°33 | 4°35 | 26°45 | 24°21 | 29° 7 | 16°30 | 15°53 | 22°49 | 23°10 | 0°21 | n.a. | S 11 |
| S 12 | 17 10 32 | 17°17'51 | 19°32 | 21°12 | 2°22 | 5° 8 | 26°41 | 24°28 | 29°10 | 16°32 | 15°55 | 22°49 | 23° 7 | 0°27 | n.a. | S 12 |
| M13 | 17 14 29 | 18°14'58 | 2♐ 8 | 23°18 | 3°12 | 5°41 | 26°36 | 24°34 | 29°13 | 16°34 | 15°56 | 22°48 | 23° 4 | 0°34 | n.a. | M13 |
| T 14 | 17 18 25 | 19°12'06 | 15° 0 | 25°23 | 4° 3 | 6°14 | 26°32 | 24°41 | 29°16 | 16°36 | 15°58 | 22°48 | 23° 1 | 0°41 | n.a. | T 14 |
| W15 | 17 22 22 | 20° 9'14 | 28° 7 | 27°26 | 4°55 | 6°47 | 26°27 | 24°48 | 29°20 | 16°39 | 15°59 | 22°D48 | 22°57 | 0°48 | n.a. | W15 |
| T 16 | 17 26 18 | 21° 6'22 | 11♑30 | 29°28 | 5°47 | 7°20 | 26°22 | 24°54 | 29°23 | 16°41 | 16° 1 | 22°48 | 22°54 | 0°54 | n.a. | T 16 |
| F 17 | 17 30 15 | 22° 3'32 | 25° 6 | 1♋29 | 6°40 | 7°54 | 26°17 | 25° 1 | 29°26 | 16°43 | 16° 2 | 22°48 | 22°51 | 1° 1 | n.a. | F 17 |
| S 18 | 17 34 12 | 23° 0'41 | 8♒55 | 3°27 | 7°33 | 8°28 | 26°12 | 25° 8 | 29°29 | 16°45 | 16° 4 | 22°R48 | 22°48 | 1° 8 | n.a. | S 18 |
| S 19 | 17 38 8 | 23°57'52 | 22°54 | 5°24 | 8°27 | 9° 1 | 26° 6 | 25°15 | 29°32 | 16°47 | 16° 5 | 22°48 | 22°45 | 1°14 | n.a. | S 19 |
| M20 | 17 42 5 | 24°55'03 | 7♓ 0 | 7°20 | 9°21 | 9°35 | 26° 1 | 25°22 | 29°35 | 16°49 | 16° 7 | 22°48 | 22°42 | 1°21 | n.a. | M20 |
| T 21 | 17 46 1 | 25°52'15 | 21°12 | 9°13 | 10°16 | 10°10 | 25°55 | 25°29 | 29°39 | 16°51 | 16° 8 | 22°D48 | 22°38 | 1°28 | n.a. | T 21 |
| W22 | 17 49 58 | 26°49'28 | 5♈27 | 11° 5 | 11°12 | 10°44 | 25°49 | 25°36 | 29°42 | 16°53 | 16°10 | 22°48 | 22°35 | 1°35 | n.a. | W22 |
| T 23 | 17 53 54 | 27°46'42 | 19°42 | 12°55 | 12° 8 | 11°18 | 25°43 | 25°43 | 29°45 | 16°55 | 16°11 | 22°48 | 22°32 | 1°41 | n.a. | T 23 |
| F 24 | 17 57 51 | 28°43'57 | 3♉54 | 14°44 | 13° 4 | 11°53 | 25°37 | 25°50 | 29°48 | 16°57 | 16°13 | 22°48 | 22°29 | 1°48 | n.a. | F 24 |
| S 25 | 18 1 47 | 29°41'13 | 18° 1 | 16°30 | 14° 1 | 12°28 | 25°31 | 25°57 | 29°52 | 16°59 | 16°14 | 22°49 | 22°26 | 1°55 | n.a. | S 25 |
| S 26 | 18 5 44 | 0♋38'30 | 2♊ 0 | 18°15 | 14°58 | 13° 3 | 25°25 | 26° 4 | 29°55 | 17° 2 | 16°16 | 22°50 | 22°23 | 2° 1 | n.a. | S 26 |
| M27 | 18 9 41 | 1°35'48 | 15°47 | 19°58 | 15°56 | 13°38 | 25°18 | 26°11 | 29°59 | 17° 4 | 16°17 | 22°50 | 22°19 | 2° 8 | n.a. | M27 |
| T 28 | 18 13 37 | 2°33'08 | 29°21 | 21°39 | 16°54 | 14°13 | 25°12 | 26°18 | 0♌ 2 | 17° 6 | 16°19 | 22°R50 | 22°16 | 2°15 | n.a. | T 28 |
| W29 | 18 17 34 | 3°30'27 | 12♋39 | 23°19 | 17°53 | 14°48 | 25° 5 | 26°25 | 0° 5 | 17° 8 | 16°20 | 22°50 | 22°13 | 2°22 | n.a. | W29 |
| T 30 | 18 21 30 | 4♋27'48 | 25♋40 | 24♋57 | 18♉52 | 15♍24 | 24♉58 | 26♋33 | 0♌ 9 | 17♋10 | 16♊22 | 22♐48 | 22♐10 | 2♎28 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 21n41 | 22n34 | 1s 3 | 19n54 | 0n 3 | 6n44 | 2s53 | 12n41 | 0n54 | 21s42 | 0s48 | 22n33 | 0n54 | 21n16 | 0n38 | 22n39 | 0s 4 | 20n51 | 2s 5 | 23s30 | 23s33 | 4s23 | | n.a. |
| T 2 | 21 51 | 20 21 | 2 13 | 20 33 | 0 14 | 6 56 | 2 57 | 12 28 | 0 52 | 21 43 | 0 48 | 22 32 | 0 54 | 21 16 | 0 38 | 22 39 | 0 4 | 20 51 | 2 5 | 23 30 | 23 33 | 4 25 | | n.a. |
| F 3 | 22 0 | 17 8 | 3 13 | 21 10 | 0 25 | 7 8 | 3 0 | 12 16 | 0 51 | 21 44 | 0 48 | 22 31 | 0 54 | 21 15 | 0 38 | 22 38 | 0 4 | 20 52 | 2 4 | 23 30 | 23 33 | 4 28 | | n.a. |
| S 4 | 22 9 | 13 14 | 4 3 | 21 45 | 0 35 | 7 21 | 3 3 | 12 4 | 0 50 | 21 45 | 0 48 | 22 30 | 0 54 | 21 15 | 0 38 | 22 38 | 0 4 | 20 52 | 2 4 | 23 30 | 23 33 | 4 30 | | n.a. |
| S 5 | 22 17 | 8 52 | 4 40 | 22 18 | 0 45 | 7 35 | 3 6 | 11 51 | 0 48 | 21 45 | 0 49 | 22 29 | 0 54 | 21 14 | 0 38 | 22 38 | 0 4 | 20 52 | 2 4 | 23 30 | 23 32 | 4 33 | | n.a. |
| M 6 | 22 25 | 4 14 | 5 5 | 22 49 | 0 54 | 7 48 | 3 8 | 11 38 | 0 47 | 21 46 | 0 49 | 22 28 | 0 54 | 21 13 | 0 38 | 22 38 | 0 4 | 20 52 | 2 4 | 23 30 | 23 32 | 4 36 | | n.a. |
| T 7 | 22 33 | 0s30 | 5 16 | 23 17 | 1 2 | 8 2 | 3 11 | 11 26 | 0 46 | 21 47 | 0 49 | 22 27 | 0 54 | 21 13 | 0 38 | 22 38 | 0 4 | 20 53 | 2 4 | 23 30 | 23 32 | 4 38 | | n.a. |
| W 8 | 22 40 | 5 12 | 5 13 | 23 43 | 1 10 | 8 17 | 3 13 | 11 13 | 0 44 | 21 48 | 0 49 | 22 26 | 0 54 | 21 12 | 0 38 | 22 37 | 0 4 | 20 53 | 2 4 | 23 30 | 23 32 | 4 41 | | n.a. |
| T 9 | 22 47 | 9 44 | 4 57 | 24 7 | 1 18 | 8 32 | 3 15 | 11 0 | 0 43 | 21 49 | 0 50 | 22 25 | 0 54 | 21 12 | 0 38 | 22 37 | 0 4 | 20 53 | 2 4 | 23 30 | 23 32 | 4 43 | | n.a. |
| F 10 | 22 53 | 13 56 | 4 28 | 24 27 | 1 24 | 8 47 | 3 17 | 10 47 | 0 42 | 21 50 | 0 50 | 22 24 | 0 54 | 21 11 | 0 38 | 22 37 | 0 4 | 20 53 | 2 4 | 23 30 | 23 32 | 4 46 | | n.a. |
| S 11 | 23 0 | 17 37 | 3 47 | 24 45 | 1 30 | 9 2 | 3 18 | 10 34 | 0 40 | 21 51 | 0 50 | 22 22 | 0 54 | 21 10 | 0 38 | 22 37 | 0 3 | 20 53 | 2 4 | 23 30 | 23 31 | 4 49 | | n.a. |
| S 12 | 23 5 | 20 36 | 2 54 | 25 0 | 1 36 | 9 18 | 3 20 | 10 20 | 0 39 | 21 52 | 0 50 | 22 21 | 0 54 | 21 10 | 0 38 | 22 36 | 0 3 | 20 54 | 2 4 | 23 30 | 23 31 | 4 51 | | n.a. |
| M13 | 23 11 | 22 39 | 1 52 | 25 12 | 1 40 | 9 34 | 3 21 | 10 7 | 0 38 | 21 54 | 0 51 | 22 20 | 0 54 | 21 9 | 0 38 | 22 36 | 0 3 | 20 54 | 2 4 | 23 30 | 23 31 | 4 54 | | n.a. |
| T 14 | 23 15 | 23 34 | 0 43 | 25 21 | 1 44 | 9 51 | 3 22 | 9 53 | 0 37 | 21 55 | 0 51 | 22 19 | 0 54 | 21 8 | 0 38 | 22 36 | 0 3 | 20 54 | 2 4 | 23 30 | 23 31 | 4 56 | | n.a. |
| W15 | 23 20 | 23 12 | 0n29 | 25 28 | 1 47 | 10 7 | 3 23 | 9 40 | 0 35 | 21 56 | 0 51 | 22 18 | 0 55 | 21 8 | 0 38 | 22 36 | 0 3 | 20 54 | 2 4 | 23 30 | 23 31 | 4 59 | | n.a. |
| T 16 | 23 24 | 21 30 | 1 42 | 25 31 | 1 49 | 10 24 | 3 23 | 9 26 | 0 34 | 21 57 | 0 51 | 22 17 | 0 55 | 21 7 | 0 38 | 22 35 | 0 3 | 20 54 | 2 4 | 23 30 | 23 31 | 5 2 | | n.a. |
| F 17 | 23 28 | 18 34 | 2 50 | 25 33 | 1 51 | 10 41 | 3 24 | 9 13 | 0 33 | 21 58 | 0 52 | 22 15 | 0 55 | 21 6 | 0 38 | 22 35 | 0 3 | 20 55 | 2 4 | 23 30 | 23 30 | 5 4 | | n.a. |
| S 18 | 23 31 | 14 33 | 3 49 | 25 31 | 1 52 | 10 58 | 3 24 | 8 59 | 0 32 | 21 59 | 0 52 | 22 14 | 0 55 | 21 6 | 0 38 | 22 35 | 0 3 | 20 55 | 2 4 | 23 30 | 23 30 | 5 7 | | n.a. |
| S 19 | 23 34 | 9 42 | 4 35 | 25 28 | 1 52 | 11 15 | 3 24 | 8 45 | 0 31 | 22 1 | 0 52 | 22 13 | 0 55 | 21 5 | 0 38 | 22 35 | 0 3 | 20 55 | 2 4 | 23 30 | 23 30 | 5 9 | | n.a. |
| M20 | 23 36 | 4 19 | 5 5 | 25 22 | 1 52 | 11 33 | 3 24 | 8 31 | 0 29 | 22 2 | 0 52 | 22 12 | 0 55 | 21 4 | 0 38 | 22 34 | 0 3 | 20 55 | 2 3 | 23 30 | 23 30 | 5 12 | | n.a. |
| T 21 | 23 38 | 1n19 | 5 17 | 25 14 | 1 51 | 11 50 | 3 24 | 8 17 | 0 28 | 22 3 | 0 53 | 22 10 | 0 55 | 21 4 | 0 37 | 22 34 | 0 3 | 20 56 | 2 3 | 23 30 | 23 30 | 5 15 | | n.a. |
| W22 | 23 40 | 6 54 | 5 9 | 25 3 | 1 50 | 12 8 | 3 24 | 8 2 | 0 27 | 22 5 | 0 53 | 22 9 | 0 55 | 21 3 | 0 37 | 22 34 | 0 3 | 20 56 | 2 3 | 23 30 | 23 29 | 5 17 | | n.a. |
| T 23 | 23 41 | 12 8 | 4 43 | 24 51 | 1 48 | 12 25 | 3 23 | 7 48 | 0 26 | 22 6 | 0 53 | 22 8 | 0 55 | 21 2 | 0 37 | 22 34 | 0 3 | 20 56 | 2 3 | 23 30 | 23 29 | 5 20 | | n.a. |
| F 24 | 23 42 | 16 42 | 3 59 | 24 37 | 1 45 | 12 43 | 3 23 | 7 34 | 0 25 | 22 7 | 0 53 | 22 7 | 0 55 | 21 1 | 0 37 | 22 33 | 0 3 | 20 56 | 2 3 | 23 30 | 23 29 | 5 22 | | n.a. |
| S 25 | 23 42 | 20 17 | 3 1 | 24 21 | 1 42 | 13 0 | 3 22 | 7 19 | 0 24 | 22 9 | 0 54 | 22 5 | 0 55 | 21 1 | 0 37 | 22 33 | 0 3 | 20 56 | 2 3 | 23 30 | 23 29 | 5 25 | | n.a. |
| S 26 | 23 42 | 22 38 | 1 53 | 24 4 | 1 38 | 13 18 | 3 21 | 7 5 | 0 22 | 22 10 | 0 54 | 22 4 | 0 55 | 21 0 | 0 37 | 22 33 | 0 3 | 20 57 | 2 3 | 23 30 | 23 29 | 5 27 | | n.a. |
| M27 | 23 41 | 23 35 | 0 39 | 23 45 | 1 34 | 13 36 | 3 20 | 6 50 | 0 21 | 22 12 | 0 54 | 22 3 | 0 55 | 20 59 | 0 37 | 22 33 | 0 3 | 20 57 | 2 3 | 23 30 | 23 29 | 5 30 | | n.a. |
| T 28 | 23 41 | 23 6 | 0s36 | 23 24 | 1 29 | 13 54 | 3 19 | 6 35 | 0 20 | 22 13 | 0 54 | 22 1 | 0 55 | 20 58 | 0 37 | 22 32 | 0 3 | 20 57 | 2 3 | 23 30 | 23 28 | 5 33 | | n.a. |
| W29 | 23 39 | 21 19 | 1 47 | 23 3 | 1 24 | 14 11 | 3 18 | 6 20 | 0 19 | 22 14 | 0 54 | 22 0 | 0 55 | 20 58 | 0 37 | 22 32 | 0 3 | 20 57 | 2 3 | 23 30 | 23 28 | 5 35 | | n.a. |
| T 30 | 23n37 | 18n26 | 2s52 | 22n40 | 1n19 | 14n29 | 3s16 | 6n 5 | 0n18 | 22s16 | 0s55 | 21n59 | 0n55 | 20n57 | 0n37 | 22n32 | 0s 3 | 20n57 | 2s 3 | 23s30 | 23s28 | 5s38 | | n.a. |

Julian Day Number = 1701120.5, Delta T = 03h05m31s
Ecliptic obliquity = 23°42'05, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°49'52, Lahiri = - 4°42'51 Julian Calendar 1 June 56 BCE == Greg. Calendar 30 May 056 BCE

The year -55 astronomical counting style corresponds to year 056 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 56 BCE
# geocentric

## JULY 56 BCE (-55) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 18 25 27 | 5♋25'10 | 8♌25 | 26♋33 | 19♉51 | 16♍ 0 | 24°R51 | 26♋40 | 0♌12 | 17♋12 | 16♊23 | 22°R47 | 22♐ 7 | 2♎35 | n.a. | F 1 |
| S 2 | 18 29 23 | 6°22'32 | 20°53 | 28° 7 | 20°51 | 16°35 | 24♏44 | 26°47 | 0°16 | 17°15 | 16°25 | 22♐45 | 22° 3 | 2°42 | n.a. | S 2 |
| S 3 | 18 33 20 | 7°19'55 | 3♍ 8 | 29°40 | 21°51 | 17°11 | 24°37 | 26°55 | 0°19 | 17°17 | 16°26 | 22°43 | 22° 0 | 2°49 | n.a. | S 3 |
| M 4 | 18 37 16 | 8°17'18 | 15°11 | 1♌11 | 22°51 | 17°47 | 24°30 | 27° 2 | 0°23 | 17°19 | 16°28 | 22°41 | 21°57 | 2°55 | n.a. | M 4 |
| T 5 | 18 41 13 | 9°14'43 | 27° 7 | 2°40 | 23°52 | 18°24 | 24°23 | 27° 9 | 0°26 | 17°21 | 16°29 | 22°40 | 21°54 | 3° 2 | n.a. | T 5 |
| W 6 | 18 45 10 | 10°12'08 | 9♎ 0 | 4° 7 | 24°53 | 19° 0 | 24°15 | 27°17 | 0°30 | 17°23 | 16°31 | 22°D40 | 21°51 | 3° 9 | n.a. | W 6 |
| T 7 | 18 49 6 | 11° 9'34 | 20°55 | 5°33 | 25°54 | 19°36 | 24° 8 | 27°24 | 0°33 | 17°26 | 16°32 | 22°40 | 21°48 | 3°15 | n.a. | T 7 |
| F 8 | 18 53 3 | 12° 7'02 | 2♏56 | 6°57 | 26°55 | 20°13 | 24° 1 | 27°31 | 0°37 | 17°28 | 16°33 | 22°41 | 21°44 | 3°22 | n.a. | F 8 |
| S 9 | 18 56 59 | 13° 4'30 | 15° 8 | 8°19 | 27°57 | 20°50 | 23°53 | 27°39 | 0°41 | 17°30 | 16°35 | 22°43 | 21°41 | 3°29 | n.a. | S 9 |
| S 10 | 19 0 56 | 14° 1'59 | 27°34 | 9°38 | 29° 0 | 21°27 | 23°45 | 27°46 | 0°44 | 17°32 | 16°36 | 22°44 | 21°38 | 3°36 | n.a. | S 10 |
| M11 | 19 4 52 | 14°59'29 | 10♐19 | 10°57 | 0♊ 2 | 22° 4 | 23°38 | 27°54 | 0°48 | 17°35 | 16°38 | 22°45 | 21°35 | 3°42 | n.a. | M11 |
| T 12 | 19 8 49 | 15°57'00 | 23°23 | 12°13 | 1° 5 | 22°41 | 23°30 | 28° 1 | 0°52 | 17°37 | 16°39 | 22°R46 | 21°32 | 3°49 | n.a. | T 12 |
| W13 | 19 12 45 | 16°54'32 | 6♑49 | 13°27 | 2° 8 | 23°18 | 23°22 | 28° 9 | 0°55 | 17°39 | 16°40 | 22°45 | 21°29 | 3°56 | n.a. | W13 |
| T 14 | 19 16 42 | 17°52'06 | 20°35 | 14°38 | 3°11 | 23°55 | 23°15 | 28°16 | 0°59 | 17°41 | 16°42 | 22°43 | 21°25 | 4° 2 | n.a. | T 14 |
| F 15 | 19 20 39 | 18°49'41 | 4♒39 | 15°48 | 4°15 | 24°33 | 23° 7 | 28°24 | 1° 3 | 17°43 | 16°43 | 22°40 | 21°22 | 4° 9 | n.a. | F 15 |
| S 16 | 19 24 35 | 19°47'17 | 18°55 | 16°56 | 5°18 | 25°11 | 22°59 | 28°31 | 1° 6 | 17°46 | 16°44 | 22°37 | 21°19 | 4°16 | n.a. | S 16 |
| S 17 | 19 28 32 | 20°44'55 | 3♓20 | 18° 1 | 6°23 | 25°48 | 22°51 | 28°39 | 1°10 | 17°48 | 16°46 | 22°33 | 21°16 | 4°23 | n.a. | S 17 |
| M18 | 19 32 28 | 21°42'34 | 17°47 | 19° 3 | 7°27 | 26°26 | 22°43 | 28°47 | 1°14 | 17°50 | 16°47 | 22°29 | 21°13 | 4°29 | n.a. | M18 |
| T 19 | 19 36 25 | 22°40'15 | 2♈12 | 20° 3 | 8°31 | 27° 4 | 22°35 | 28°54 | 1°17 | 17°52 | 16°48 | 22°27 | 21° 9 | 4°36 | n.a. | T 19 |
| W20 | 19 40 21 | 23°37'58 | 16°31 | 21° 0 | 9°36 | 27°42 | 22°28 | 29° 2 | 1°21 | 17°55 | 16°50 | 22°25 | 21° 6 | 4°43 | n.a. | W20 |
| T 21 | 19 44 18 | 24°35'43 | 0♉39 | 21°55 | 10°41 | 28°20 | 22°20 | 29° 9 | 1°25 | 17°57 | 16°51 | 22°D25 | 21° 3 | 4°50 | n.a. | T 21 |
| F 22 | 19 48 14 | 25°33'29 | 14°37 | 22°46 | 11°46 | 28°59 | 22°12 | 29°17 | 1°29 | 17°59 | 16°52 | 22°26 | 21° 0 | 4°56 | n.a. | F 22 |
| S 23 | 19 52 11 | 26°31'17 | 28°23 | 23°34 | 12°52 | 29°37 | 22° 4 | 29°24 | 1°32 | 18° 1 | 16°53 | 22°28 | 20°57 | 5° 3 | n.a. | S 23 |
| S 24 | 19 56 8 | 27°29'08 | 11♊57 | 24°19 | 13°57 | 0♎16 | 21°56 | 29°32 | 1°36 | 18° 3 | 16°55 | 22°29 | 20°54 | 5°10 | n.a. | S 24 |
| M25 | 20 0 4 | 28°27'00 | 25°19 | 25° 1 | 15° 3 | 0°54 | 21°48 | 29°40 | 1°40 | 18° 6 | 16°56 | 22°R29 | 20°50 | 5°16 | n.a. | M25 |
| T 26 | 20 4 1 | 29°24'53 | 8♋29 | 25°38 | 16° 9 | 1°33 | 21°41 | 29°47 | 1°43 | 18° 8 | 16°57 | 22°28 | 20°47 | 5°23 | n.a. | T 26 |
| W27 | 20 7 57 | 0♌22'49 | 21°26 | 26°12 | 17°16 | 2°12 | 21°33 | 29°55 | 1°47 | 18°10 | 16°58 | 22°25 | 20°44 | 5°30 | n.a. | W27 |
| T 28 | 20 11 54 | 1°20'46 | 4♌11 | 26°41 | 18°22 | 2°51 | 21°25 | 0♌ 2 | 1°51 | 18°12 | 16°59 | 22°20 | 20°41 | 5°37 | n.a. | T 28 |
| F 29 | 20 15 50 | 2°18'45 | 16°44 | 27° 6 | 19°29 | 3°30 | 21°18 | 0°10 | 1°55 | 18°14 | 17° 1 | 22°14 | 20°38 | 5°43 | n.a. | F 29 |
| S 30 | 20 19 47 | 3°16'45 | 29° 5 | 27°26 | 20°36 | 4° 9 | 21°10 | 0°18 | 1°58 | 18°17 | 17° 2 | 22° 7 | 20°35 | 5°50 | n.a. | S 30 |
| S 31 | 20 23 43 | 4♌14'47 | 11♍14 | 27♌41 | 21♊42 | 4♎49 | 21♑ 3 | 0♌25 | 2♌ 2 | 18♋19 | 17♊ 3 | 21♐59 | 20♐31 | 5♎57 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 23n35 | 14n43 | 3s46 | 22n16 | 1n13 | 14n46 | 3s15 | 5n50 | 0n17 | 22s17 | 0s55 | 21n57 | 0n55 | 20n56 | 0n37 | 22n32 | 0s 3 | 20n57 | 2s 3 | 23s30 | 23s28 | 5s40 | | n.a. |
| S 2 | 23 33 | 10 27 | 4 28 | 21 51 | 1 6 | 15 4 | 3 13 | 5 35 | 0 16 | 22 19 | 0 55 | 21 56 | 0 55 | 20 55 | 0 37 | 22 31 | 0 3 | 20 58 | 2 3 | 23 30 | 23 28 | 5 43 | | n.a. |
| S 3 | 23 30 | 5 51 | 4 57 | 21 25 | 1 0 | 15 21 | 3 11 | 5 20 | 0 15 | 22 20 | 0 55 | 21 54 | 0 55 | 20 55 | 0 37 | 22 31 | 0 3 | 20 58 | 2 3 | 23 30 | 23 27 | 5 45 | | n.a. |
| M 4 | 23 26 | 1 6 | 5 13 | 20 58 | 0 53 | 15 38 | 3 9 | 5 5 | 0 14 | 22 22 | 0 55 | 21 53 | 0 55 | 20 54 | 0 37 | 22 31 | 0 3 | 20 58 | 2 3 | 23 30 | 23 27 | 5 48 | | n.a. |
| T 5 | 23 22 | 3s39 | 5 15 | 20 31 | 0 45 | 15 55 | 3 8 | 4 50 | 0 12 | 22 23 | 0 56 | 21 52 | 0 55 | 20 53 | 0 37 | 22 31 | 0 3 | 20 58 | 2 3 | 23 30 | 23 27 | 5 50 | | n.a. |
| W 6 | 23 18 | 8 14 | 5 3 | 20 3 | 0 37 | 16 12 | 3 5 | 4 34 | 0 11 | 22 25 | 0 56 | 21 50 | 0 55 | 20 52 | 0 37 | 22 30 | 0 3 | 20 58 | 2 3 | 23 30 | 23 27 | 5 53 | | n.a. |
| T 7 | 23 14 | 12 32 | 4 38 | 19 34 | 0 29 | 16 28 | 3 3 | 4 19 | 0 10 | 22 26 | 0 56 | 21 49 | 0 55 | 20 52 | 0 37 | 22 30 | 0 3 | 20 59 | 2 3 | 23 30 | 23 27 | 5 56 | | n.a. |
| F 8 | 23 9 | 16 23 | 4 1 | 19 5 | 0 21 | 16 45 | 3 1 | 4 3 | 0 9 | 22 28 | 0 56 | 21 47 | 0 56 | 20 51 | 0 37 | 22 30 | 0 3 | 20 59 | 2 3 | 23 30 | 23 26 | 5 58 | | n.a. |
| S 9 | 23 3 | 19 37 | 3 13 | 18 35 | 0 12 | 17 1 | 2 59 | 3 48 | 0 8 | 22 29 | 0 56 | 21 46 | 0 56 | 20 50 | 0 37 | 22 29 | 0 3 | 20 59 | 2 3 | 23 30 | 23 26 | 6 1 | | n.a. |
| S 10 | 22 57 | 22 1 | 2 14 | 18 5 | 0 3 | 17 17 | 2 56 | 3 32 | 0 7 | 22 31 | 0 57 | 21 45 | 0 56 | 20 49 | 0 37 | 22 29 | 0 3 | 20 59 | 2 3 | 23 30 | 23 26 | 6 3 | | n.a. |
| M11 | 22 51 | 23 22 | 1 8 | 17 35 | 0s 6 | 17 33 | 2 54 | 3 17 | 0 6 | 22 32 | 0 57 | 21 43 | 0 56 | 20 48 | 0 37 | 22 29 | 0 3 | 20 59 | 2 3 | 23 30 | 23 26 | 6 6 | | n.a. |
| T 12 | 22 44 | 23 29 | 0n 3 | 17 5 | 0 15 | 17 48 | 2 51 | 3 1 | 0 5 | 22 34 | 0 57 | 21 42 | 0 56 | 20 48 | 0 37 | 22 29 | 0 3 | 20 59 | 2 3 | 23 30 | 23 26 | 6 8 | | n.a. |
| W13 | 22 37 | 22 15 | 1 17 | 16 34 | 0 25 | 18 4 | 2 49 | 2 45 | 0 4 | 22 35 | 0 57 | 21 40 | 0 56 | 20 47 | 0 37 | 22 28 | 0 3 | 21 0 | 2 3 | 23 30 | 23 25 | 6 11 | | n.a. |
| T 14 | 22 30 | 19 41 | 2 27 | 16 4 | 0 35 | 18 19 | 2 46 | 2 29 | 0 3 | 22 37 | 0 57 | 21 39 | 0 56 | 20 46 | 0 37 | 22 28 | 0 3 | 21 0 | 2 2 | 23 30 | 23 25 | 6 13 | | n.a. |
| F 15 | 22 22 | 15 55 | 3 30 | 15 34 | 0 45 | 18 33 | 2 43 | 2 13 | 0 2 | 22 38 | 0 57 | 21 37 | 0 56 | 20 45 | 0 37 | 22 28 | 0 3 | 21 0 | 2 2 | 23 30 | 23 25 | 6 16 | | n.a. |
| S 16 | 22 13 | 11 11 | 4 20 | 15 4 | 0 55 | 18 48 | 2 40 | 1 57 | 0 1 | 22 40 | 0 58 | 21 36 | 0 56 | 20 44 | 0 37 | 22 27 | 0 3 | 21 0 | 2 2 | 23 30 | 23 25 | 6 18 | | n.a. |
| S 17 | 22 5 | 5 48 | 4 55 | 14 34 | 1 5 | 19 2 | 2 37 | 1 41 | 0 0 | 22 41 | 0 58 | 21 34 | 0 56 | 20 43 | 0 37 | 22 27 | 0 3 | 21 0 | 2 2 | 23 29 | 23 25 | 6 21 | | n.a. |
| M18 | 21 56 | 0 6 | 5 12 | 14 4 | 1 16 | 19 16 | 2 34 | 1 25 | 0s 1 | 22 43 | 0 58 | 21 33 | 0 56 | 20 43 | 0 37 | 22 27 | 0 3 | 21 0 | 2 2 | 23 29 | 23 24 | 6 23 | | n.a. |
| T 19 | 21 46 | 5n35 | 5 8 | 13 35 | 1 26 | 19 29 | 2 31 | 1 9 | 0 2 | 22 44 | 0 58 | 21 31 | 0 56 | 20 42 | 0 37 | 22 27 | 0 3 | 21 1 | 2 2 | 23 29 | 23 24 | 6 26 | | n.a. |
| W20 | 21 36 | 10 56 | 4 46 | 13 7 | 1 37 | 19 42 | 2 28 | 0 53 | 0 3 | 22 46 | 0 58 | 21 30 | 0 56 | 20 41 | 0 37 | 22 26 | 0 3 | 21 1 | 2 2 | 23 29 | 23 24 | 6 28 | | n.a. |
| T 21 | 21 26 | 15 39 | 4 6 | 12 39 | 1 48 | 19 55 | 2 25 | 0 37 | 0 4 | 22 47 | 0 58 | 21 28 | 0 56 | 20 40 | 0 37 | 22 26 | 0 3 | 21 1 | 2 2 | 23 29 | 23 24 | 6 31 | | n.a. |
| F 22 | 21 16 | 19 27 | 3 12 | 12 12 | 1 59 | 20 7 | 2 21 | 0 20 | 0 5 | 22 49 | 0 58 | 21 27 | 0 56 | 20 39 | 0 37 | 22 26 | 0 3 | 21 1 | 2 2 | 23 29 | 23 24 | 6 33 | | n.a. |
| S 23 | 21 5 | 22 5 | 2 8 | 11 46 | 2 10 | 20 19 | 2 18 | 0 4 | 0 6 | 22 50 | 0 58 | 21 25 | 0 56 | 20 38 | 0 37 | 22 25 | 0 3 | 21 1 | 2 2 | 23 29 | 23 23 | 6 36 | | n.a. |
| S 24 | 20 53 | 23 25 | 0 57 | 11 21 | 2 20 | 20 30 | 2 15 | 0s12 | 0 7 | 22 51 | 0 59 | 21 24 | 0 57 | 20 38 | 0 37 | 22 25 | 0 3 | 21 1 | 2 2 | 23 29 | 23 23 | 6 38 | | n.a. |
| M25 | 20 42 | 23 22 | 0s15 | 10 57 | 2 31 | 20 41 | 2 11 | 0 29 | 0 7 | 22 53 | 0 59 | 21 22 | 0 57 | 20 37 | 0 37 | 22 25 | 0 3 | 21 2 | 2 2 | 23 29 | 23 23 | 6 41 | | n.a. |
| T 26 | 20 30 | 22 0 | 1 26 | 10 35 | 2 42 | 20 51 | 2 8 | 0 45 | 0 8 | 22 54 | 0 59 | 21 20 | 0 57 | 20 36 | 0 37 | 22 25 | 0 3 | 21 2 | 2 2 | 23 29 | 23 23 | 6 43 | | n.a. |
| W27 | 20 17 | 19 29 | 2 31 | 10 13 | 2 52 | 21 1 | 2 4 | 1 2 | 0 9 | 22 55 | 0 59 | 21 19 | 0 57 | 20 35 | 0 37 | 22 24 | 0 3 | 21 2 | 2 2 | 23 29 | 23 22 | 6 46 | | n.a. |
| T 28 | 20 5 | 16 4 | 3 27 | 9 54 | 3 3 | 21 11 | 2 1 | 1 18 | 0 10 | 22 57 | 0 59 | 21 17 | 0 57 | 20 34 | 0 37 | 22 24 | 0 3 | 21 2 | 2 2 | 23 29 | 23 22 | 6 48 | | n.a. |
| F 29 | 19 52 | 11 59 | 4 12 | 9 36 | 3 13 | 21 20 | 1 57 | 1 35 | 0 11 | 22 58 | 0 59 | 21 16 | 0 57 | 20 33 | 0 37 | 22 24 | 0 3 | 21 2 | 2 2 | 23 28 | 23 22 | 6 51 | | n.a. |
| S 30 | 19 38 | 7 29 | 4 44 | 9 20 | 3 22 | 21 29 | 1 53 | 1 51 | 0 12 | 22 59 | 0 59 | 21 14 | 0 57 | 20 33 | 0 37 | 22 23 | 0 3 | 21 2 | 2 2 | 23 28 | 23 22 | 6 53 | | n.a. |
| S 31 | 19n24 | 2n46 | 5s 3 | 9n 6 | 3s32 | 21n37 | 1s50 | 2s 8 | 0s13 | 23s 1 | 0s59 | 21n13 | 0n57 | 20n32 | 0n37 | 22n23 | 0s 3 | 21n 2 | 2s 2 | 23s27 | 23s22 | 6s56 | | n.a. |

Julian Day Number = 1701150.5, Delta T = 03h05m30s
Ecliptic obliquity = 23°42'05, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°49'48, Lahiri = - 4°42'47 Julian Calendar 1 July 56 BCE == Greg. Calendar 29 June 056 BCE

The year -55 astronomical counting style corresponds to year 056 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 56 BCE
# geocentric

## AUGUST 56 BCE (-55) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 20 27 40 | 5♌12'50 | 23♍15 | 27♌50 | 22♊50 | 5♎28 | 20°R55 | 0♌33 | 2♌ 6 | 18♋21 | 17♊ 4 | 21°R52 | 20♐28 | 6♎ 3 | n.a. | M 1 |
| T 2 | 20 31 37 | 6°10'55 | 5♎ 9 | 27°R54 | 23°57 | 6° 8 | 20♑48 | 0°40 | 2°10 | 18°23 | 17° 5 | 21♐46 | 20°25 | 6°10 | n.a. | T 2 |
| W 3 | 20 35 33 | 7° 9'01 | 17° 1 | 27°53 | 25° 4 | 6°47 | 20°41 | 0°48 | 2°13 | 18°25 | 17° 6 | 21°42 | 20°22 | 6°17 | n.a. | W 3 |
| T 4 | 20 39 30 | 8° 7'10 | 28°53 | 27°45 | 26°12 | 7°27 | 20°34 | 0°56 | 2°17 | 18°27 | 17° 7 | 21°40 | 20°19 | 6°24 | n.a. | T 4 |
| F 5 | 20 43 26 | 9° 5'19 | 10♏52 | 27°31 | 27°20 | 8° 7 | 20°26 | 1° 3 | 2°21 | 18°29 | 17° 8 | 21°D39 | 20°15 | 6°30 | n.a. | F 5 |
| S 6 | 20 47 23 | 10° 3'31 | 23° 1 | 27°11 | 28°28 | 8°47 | 20°19 | 1°11 | 2°25 | 18°32 | 17° 9 | 21°40 | 20°12 | 6°37 | n.a. | S 6 |
| S 7 | 20 51 19 | 11° 1'43 | 5♐26 | 26°44 | 29°36 | 9°27 | 20°13 | 1°18 | 2°28 | 18°34 | 17°10 | 21°41 | 20° 9 | 6°44 | n.a. | S 7 |
| M 8 | 20 55 16 | 11°59'58 | 18°12 | 26°11 | 0♋44 | 10° 7 | 20° 6 | 1°26 | 2°32 | 18°36 | 17°11 | 21°R42 | 20° 6 | 6°50 | n.a. | M 8 |
| T 9 | 20 59 12 | 12°58'14 | 1♑22 | 25°32 | 1°53 | 10°48 | 19°59 | 1°33 | 2°36 | 18°38 | 17°12 | 21°42 | 20° 3 | 6°57 | n.a. | T 9 |
| W10 | 21 3 9 | 13°56'32 | 14°58 | 24°47 | 3° 1 | 11°28 | 19°53 | 1°41 | 2°39 | 18°40 | 17°13 | 21°40 | 20° 0 | 7° 4 | n.a. | W10 |
| T 11 | 21 7 6 | 14°54'52 | 29° 0 | 23°57 | 4°10 | 12° 8 | 19°46 | 1°48 | 2°43 | 18°42 | 17°14 | 21°35 | 19°56 | 7°11 | n.a. | T 11 |
| F 12 | 21 11 2 | 15°53'13 | 13♒25 | 23° 3 | 5°19 | 12°49 | 19°40 | 1°56 | 2°47 | 18°44 | 17°15 | 21°28 | 19°53 | 7°17 | n.a. | F 12 |
| S 13 | 21 14 59 | 16°51'36 | 28° 8 | 22° 5 | 6°28 | 13°30 | 19°34 | 2° 3 | 2°51 | 18°46 | 17°16 | 21°20 | 19°50 | 7°24 | n.a. | S 13 |
| S 14 | 21 18 55 | 17°50'02 | 13♓ 0 | 21° 4 | 7°37 | 14°10 | 19°28 | 2°11 | 2°54 | 18°48 | 17°17 | 21°12 | 19°47 | 7°31 | n.a. | S 14 |
| M15 | 21 22 52 | 18°48'29 | 27°53 | 20° 2 | 8°47 | 14°51 | 19°22 | 2°18 | 2°58 | 18°50 | 17°17 | 21° 4 | 19°44 | 7°37 | n.a. | M15 |
| T 16 | 21 26 48 | 19°46'59 | 12♈38 | 19° 1 | 9°56 | 15°32 | 19°16 | 2°25 | 3° 1 | 18°52 | 17°18 | 20°57 | 19°41 | 7°44 | n.a. | T 16 |
| W17 | 21 30 45 | 20°45'30 | 27°10 | 18° 1 | 11° 6 | 16°13 | 19°10 | 2°33 | 3° 5 | 18°54 | 17°19 | 20°52 | 19°37 | 7°51 | n.a. | W17 |
| T 18 | 21 34 41 | 21°44'05 | 11♉24 | 17° 4 | 12°15 | 16°54 | 19° 5 | 2°40 | 3° 9 | 18°56 | 17°20 | 20°50 | 19°34 | 7°58 | n.a. | T 18 |
| F 19 | 21 38 38 | 22°42'41 | 25°19 | 16°12 | 13°25 | 17°36 | 19° 0 | 2°47 | 3°12 | 18°58 | 17°21 | 20°D50 | 19°31 | 8° 4 | n.a. | F 19 |
| S 20 | 21 42 35 | 23°41'20 | 8♊54 | 15°25 | 14°35 | 18°17 | 18°54 | 2°55 | 3°16 | 19° 0 | 17°21 | 20°50 | 19°28 | 8°11 | n.a. | S 20 |
| S 21 | 21 46 31 | 24°40'02 | 22°12 | 14°46 | 15°46 | 18°58 | 18°49 | 3° 2 | 3°19 | 19° 2 | 17°22 | 20°R51 | 19°25 | 8°18 | n.a. | S 21 |
| M22 | 21 50 28 | 25°38'45 | 5♋15 | 14°14 | 16°56 | 19°40 | 18°44 | 3° 9 | 3°23 | 19° 3 | 17°23 | 20°50 | 19°21 | 8°25 | n.a. | M22 |
| T 23 | 21 54 24 | 26°37'31 | 18° 5 | 13°51 | 18° 6 | 20°22 | 18°40 | 3°16 | 3°26 | 19° 5 | 17°23 | 20°46 | 19°18 | 8°31 | n.a. | T 23 |
| W24 | 21 58 21 | 27°36'19 | 0♌43 | 13°38 | 19°17 | 21° 3 | 18°35 | 3°24 | 3°30 | 19° 7 | 17°24 | 20°41 | 19°15 | 8°38 | n.a. | W24 |
| T 25 | 22 2 17 | 28°35'09 | 13°11 | 13°D35 | 20°27 | 21°45 | 18°31 | 3°31 | 3°34 | 19° 9 | 17°25 | 20°32 | 19°12 | 8°45 | n.a. | T 25 |
| F 26 | 22 6 14 | 29°34'02 | 25°30 | 13°41 | 21°38 | 22°27 | 18°27 | 3°38 | 3°37 | 19°11 | 17°25 | 20°21 | 19° 9 | 8°51 | n.a. | F 26 |
| S 27 | 22 10 10 | 0♍32'56 | 7♍40 | 13°58 | 22°49 | 23° 9 | 18°23 | 3°45 | 3°40 | 19°13 | 17°26 | 20° 8 | 19° 6 | 8°58 | n.a. | S 27 |
| S 28 | 22 14 7 | 1°31'53 | 19°43 | 14°24 | 24° 0 | 23°51 | 18°19 | 3°52 | 3°44 | 19°14 | 17°27 | 19°55 | 19° 2 | 9° 5 | n.a. | S 28 |
| M29 | 22 18 3 | 2°30'51 | 1♎39 | 14°59 | 25°11 | 24°33 | 18°15 | 3°59 | 3°47 | 19°16 | 17°27 | 19°42 | 18°59 | 9°12 | n.a. | M29 |
| T 30 | 22 22 0 | 3°29'52 | 13°31 | 15°44 | 26°22 | 25°16 | 18°12 | 4° 6 | 3°51 | 19°18 | 17°28 | 19°31 | 18°56 | 9°18 | n.a. | T 30 |
| W31 | 22 25 57 | 4♍28'55 | 25♎20 | 16♌36 | 27♋34 | 25♎58 | 18♑ 8 | 4♌13 | 3♌54 | 19♋19 | 17♊28 | 19♐22 | 18♐53 | 9♎25 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | | ☊ | | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | | decl | | decl | | decl | lat |
| M 1 | 19n10 | 2s 0 | 5s 8 | 8n55 | 3s40 | 21n44 | 1s46 | 2s24 | 0s14 | 23s 2 | 0s59 | 21n11 | 0n57 | 20n31 | 0n37 | 22n23 | 0s 3 | 21n 2 | 2s 2 | 23s27 | 23s21 | 6s58 | | | | | n.a. |
| T 2 | 18 56 | 6 39 | 5 0 | 8 45 | 3 49 | 21 51 | 1 42 | 2 41 | 0 15 | 23 3 | 0 59 | 21 9 | 0 57 | 20 30 | 0 37 | 22 23 | 0 3 | 21 3 | 2 2 | 23 27 | 23 21 | 7 1 | | | | | n.a. |
| W 3 | 18 41 | 11 2 | 4 39 | 8 39 | 3 56 | 21 58 | 1 39 | 2 58 | 0 16 | 23 4 | 0 59 | 21 8 | 0 57 | 20 29 | 0 37 | 22 22 | 0 3 | 21 3 | 2 2 | 23 26 | 23 21 | 7 3 | | | | | n.a. |
| T 4 | 18 26 | 15 1 | 4 6 | 8 35 | 4 3 | 22 4 | 1 35 | 3 14 | 0 16 | 23 5 | 1 0 | 21 6 | 0 57 | 20 28 | 0 37 | 22 22 | 0 3 | 21 3 | 2 2 | 23 26 | 23 21 | 7 6 | | | | | n.a. |
| F 5 | 18 11 | 18 26 | 3 22 | 8 35 | 4 9 | 22 9 | 1 31 | 3 31 | 0 17 | 23 7 | 1 0 | 21 5 | 0 58 | 20 28 | 0 37 | 22 22 | 0 3 | 21 3 | 2 2 | 23 26 | 23 20 | 7 8 | | | | | n.a. |
| S 6 | 17 55 | 21 7 | 2 28 | 8 37 | 4 13 | 22 14 | 1 27 | 3 48 | 0 18 | 23 8 | 1 0 | 21 3 | 0 58 | 20 27 | 0 37 | 22 21 | 0 3 | 21 3 | 2 2 | 23 26 | 23 20 | 7 11 | | | | | n.a. |
| S 7 | 17 39 | 22 52 | 1 27 | 8 43 | 4 16 | 22 18 | 1 24 | 4 5 | 0 19 | 23 9 | 1 0 | 21 2 | 0 58 | 20 26 | 0 37 | 22 21 | 0 3 | 21 3 | 2 2 | 23 26 | 23 20 | 7 13 | | | | | n.a. |
| M 8 | 17 23 | 23 29 | 0 19 | 8 53 | 4 18 | 22 22 | 1 20 | 4 21 | 0 20 | 23 10 | 1 0 | 21 0 | 0 58 | 20 25 | 0 37 | 22 21 | 0 3 | 21 3 | 2 2 | 23 26 | 23 20 | 7 16 | | | | | n.a. |
| T 9 | 17 6 | 22 50 | 0n52 | 9 5 | 4 19 | 22 25 | 1 16 | 4 38 | 0 21 | 23 11 | 1 0 | 20 58 | 0 58 | 20 24 | 0 37 | 22 21 | 0 3 | 21 3 | 2 2 | 23 26 | 23 19 | 7 18 | | | | | n.a. |
| W10 | 16 49 | 20 50 | 2 2 | 9 22 | 4 18 | 22 28 | 1 12 | 4 55 | 0 21 | 23 12 | 1 0 | 20 57 | 0 58 | 20 23 | 0 37 | 22 20 | 0 3 | 21 4 | 2 2 | 23 26 | 23 19 | 7 21 | | | | | n.a. |
| T 11 | 16 32 | 17 33 | 3 6 | 9 41 | 4 14 | 22 30 | 1 8 | 5 11 | 0 22 | 23 13 | 1 0 | 20 55 | 0 58 | 20 22 | 0 37 | 22 20 | 0 3 | 21 4 | 2 2 | 23 26 | 23 19 | 7 23 | | | | | n.a. |
| F 12 | 16 15 | 13 8 | 4 1 | 10 4 | 4 9 | 22 31 | 1 5 | 5 28 | 0 23 | 23 14 | 1 0 | 20 54 | 0 58 | 20 22 | 0 37 | 22 20 | 0 3 | 21 4 | 2 2 | 23 25 | 23 19 | 7 25 | | | | | n.a. |
| S 13 | 15 57 | 7 52 | 4 40 | 10 29 | 4 2 | 22 32 | 1 1 | 5 45 | 0 24 | 23 15 | 1 0 | 20 52 | 0 58 | 20 21 | 0 37 | 22 20 | 0 3 | 21 4 | 2 2 | 23 25 | 23 18 | 7 28 | | | | | n.a. |
| S 14 | 15 39 | 2 7 | 5 2 | 10 57 | 3 53 | 22 32 | 0 57 | 6 2 | 0 25 | 23 16 | 1 0 | 20 50 | 0 58 | 20 20 | 0 38 | 22 19 | 0 3 | 21 4 | 2 2 | 23 24 | 23 18 | 7 30 | | | | | n.a. |
| M15 | 15 21 | 3n46 | 5 3 | 11 27 | 3 42 | 22 31 | 0 53 | 6 18 | 0 26 | 23 17 | 1 0 | 20 49 | 0 59 | 20 19 | 0 38 | 22 19 | 0 3 | 21 4 | 2 2 | 23 24 | 23 18 | 7 33 | | | | | n.a. |
| T 16 | 15 3 | 9 23 | 4 43 | 11 58 | 3 30 | 22 30 | 0 49 | 6 35 | 0 26 | 23 17 | 1 0 | 20 47 | 0 59 | 20 18 | 0 38 | 22 19 | 0 3 | 21 4 | 2 2 | 23 23 | 23 18 | 7 35 | | | | | n.a. |
| W17 | 14 44 | 14 24 | 4 6 | 12 30 | 3 15 | 22 29 | 0 46 | 6 52 | 0 27 | 23 18 | 1 0 | 20 46 | 0 59 | 20 17 | 0 38 | 22 18 | 0 3 | 21 4 | 2 2 | 23 23 | 23 17 | 7 38 | | | | | n.a. |
| T 18 | 14 25 | 18 29 | 3 14 | 13 3 | 2 59 | 22 26 | 0 42 | 7 9 | 0 28 | 23 19 | 1 0 | 20 44 | 0 59 | 20 17 | 0 38 | 22 18 | 0 3 | 21 4 | 2 2 | 23 23 | 23 17 | 7 40 | | | | | n.a. |
| F 19 | 14 6 | 21 26 | 2 12 | 13 35 | 2 42 | 22 23 | 0 38 | 7 25 | 0 29 | 23 20 | 1 0 | 20 42 | 0 59 | 20 16 | 0 38 | 22 18 | 0 3 | 21 4 | 2 2 | 23 23 | 23 17 | 7 42 | | | | | n.a. |
| S 20 | 13 46 | 23 4 | 1 3 | 14 6 | 2 23 | 22 20 | 0 34 | 7 42 | 0 29 | 23 20 | 1 0 | 20 41 | 0 59 | 20 15 | 0 38 | 22 18 | 0 3 | 21 4 | 2 2 | 23 23 | 23 17 | 7 45 | | | | | n.a. |
| S 21 | 13 27 | 23 21 | 0s 7 | 14 36 | 2 4 | 22 15 | 0 31 | 7 58 | 0 30 | 23 21 | 1 0 | 20 39 | 0 59 | 20 14 | 0 38 | 22 17 | 0 3 | 21 5 | 2 2 | 23 23 | 23 16 | 7 47 | | | | | n.a. |
| M22 | 13 7 | 22 20 | 1 16 | 15 4 | 1 45 | 22 10 | 0 27 | 8 15 | 0 31 | 23 22 | 1 0 | 20 38 | 0 59 | 20 13 | 0 38 | 22 17 | 0 3 | 21 5 | 2 2 | 23 23 | 23 16 | 7 50 | | | | | n.a. |
| T 23 | 12 47 | 20 10 | 2 20 | 15 29 | 1 25 | 22 5 | 0 23 | 8 32 | 0 32 | 23 23 | 1 0 | 20 36 | 0 59 | 20 12 | 0 38 | 22 17 | 0 3 | 21 5 | 2 2 | 23 23 | 23 16 | 7 52 | | | | | n.a. |
| W24 | 12 26 | 17 3 | 3 15 | 15 52 | 1 6 | 21 59 | 0 19 | 8 48 | 0 32 | 23 23 | 1 0 | 20 34 | 1 0 | 20 12 | 0 38 | 22 17 | 0 3 | 21 5 | 2 2 | 23 22 | 23 16 | 7 55 | | | | | n.a. |
| T 25 | 12 6 | 13 12 | 4 0 | 16 11 | 0 47 | 21 52 | 0 16 | 9 5 | 0 33 | 23 24 | 1 0 | 20 33 | 1 0 | 20 11 | 0 38 | 22 16 | 0 3 | 21 5 | 2 2 | 23 22 | 23 15 | 7 57 | | | | | n.a. |
| F 26 | 11 45 | 8 52 | 4 34 | 16 27 | 0 29 | 21 44 | 0 12 | 9 21 | 0 34 | 23 24 | 1 0 | 20 31 | 1 0 | 20 10 | 0 38 | 22 16 | 0 3 | 21 5 | 2 2 | 23 21 | 23 15 | 7 59 | | | | | n.a. |
| S 27 | 11 24 | 4 15 | 4 54 | 16 39 | 0 11 | 21 36 | 0 9 | 9 38 | 0 35 | 23 25 | 1 0 | 20 30 | 1 0 | 20 9 | 0 38 | 22 16 | 0 3 | 21 5 | 2 2 | 23 20 | 23 15 | 8 2 | | | | | n.a. |
| S 28 | 11 3 | 0s29 | 5 1 | 16 47 | 0n 6 | 21 28 | 0 5 | 9 54 | 0 35 | 23 25 | 1 0 | 20 28 | 1 0 | 20 8 | 0 38 | 22 16 | 0 3 | 21 5 | 2 2 | 23 19 | 23 15 | 8 4 | | | | | n.a. |
| M29 | 10 41 | 5 9 | 4 55 | 16 51 | 0 21 | 21 18 | 0 2 | 10 10 | 0 36 | 23 26 | 1 0 | 20 27 | 1 0 | 20 8 | 0 38 | 22 15 | 0 3 | 21 5 | 2 2 | 23 18 | 23 14 | 8 7 | | | | | n.a. |
| T 30 | 10 20 | 9 36 | 4 35 | 16 52 | 0 36 | 21 8 | 0n 2 | 10 27 | 0 37 | 23 26 | 1 0 | 20 25 | 1 0 | 20 7 | 0 38 | 22 15 | 0 3 | 21 5 | 2 2 | 23 17 | 23 14 | 8 9 | | | | | n.a. |
| W31 | 9n58 | 13s41 | 4s 4 | 16n48 | 0n49 | 20n58 | 0n 5 | 10s43 | 0s37 | 23s27 | 1s 0 | 20n24 | 1n 0 | 20n 6 | 0n38 | 22n15 | 0s 3 | 21n 5 | 2s 2 | 23s16 | 23s14 | 8s11 | | | | | n.a. |

Julian Day Number = 1701181.5, Delta T = 03h05m29s
Ecliptic obliquity = 23°42'05, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°49'43, Lahiri = - 4°42'43 Julian Calendar 1 Aug. 56 BCE == Greg. Calendar 30 July 056 BCE

The year -55 astronomical counting style corresponds to year 056 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 56 BCE
# geocentric

## SEPTEMBER 56 BCE (-55) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 22 29 53 | 5♍27'59 | 7♏11 | 17♌36 | 28♋45 | 26♎40 | 18°R 5 | 4♌20 | 3♌57 | 19♋21 | 17♊29 | 19°R17 | 18♐50 | 9♎32 | n.a. | T 1 |
| F 2 | 22 33 50 | 6°27'05 | 19° 7 | 18°44 | 29°56 | 27°23 | 18♑ 2 | 4°27 | 4° 1 | 19°23 | 17°29 | 19♐13 | 18°46 | 9°38 | n.a. | F 2 |
| S 3 | 22 37 46 | 7°26'14 | 1♐13 | 19°57 | 1♌ 8 | 28° 5 | 18° 0 | 4°34 | 4° 4 | 19°24 | 17°29 | 19°12 | 18°43 | 9°45 | n.a. | S 3 |
| S 4 | 22 41 43 | 8°25'24 | 13°34 | 21°16 | 2°20 | 28°48 | 17°57 | 4°40 | 4° 7 | 19°26 | 17°30 | 19°12 | 18°40 | 9°52 | n.a. | S 4 |
| M 5 | 22 45 39 | 9°24'36 | 26°15 | 22°40 | 3°32 | 29°31 | 17°55 | 4°47 | 4°10 | 19°28 | 17°30 | 19°12 | 18°37 | 9°59 | n.a. | M 5 |
| T 6 | 22 49 36 | 10°23'50 | 9♑21 | 24° 8 | 4°44 | 0♏14 | 17°53 | 4°54 | 4°14 | 19°29 | 17°31 | 19°11 | 18°34 | 10° 5 | n.a. | T 6 |
| W 7 | 22 53 32 | 11°23'06 | 22°57 | 25°40 | 5°56 | 0°57 | 17°51 | 5° 0 | 4°17 | 19°31 | 17°31 | 19° 7 | 18°31 | 10°12 | n.a. | W 7 |
| T 8 | 22 57 29 | 12°22'24 | 7♒ 2 | 27°14 | 7° 8 | 1°40 | 17°49 | 5° 7 | 4°20 | 19°32 | 17°31 | 19° 1 | 18°27 | 10°19 | n.a. | T 8 |
| F 9 | 23 1 26 | 13°21'43 | 21°35 | 28°51 | 8°20 | 2°23 | 17°48 | 5°13 | 4°23 | 19°34 | 17°32 | 18°53 | 18°24 | 10°25 | n.a. | F 9 |
| S 10 | 23 5 22 | 14°21'05 | 6♓32 | 0♍31 | 9°32 | 3° 6 | 17°46 | 5°20 | 4°26 | 19°35 | 17°32 | 18°42 | 18°21 | 10°32 | n.a. | S 10 |
| S 11 | 23 9 19 | 15°20'29 | 21°43 | 2°11 | 10°44 | 3°49 | 17°45 | 5°26 | 4°29 | 19°37 | 17°32 | 18°31 | 18°18 | 10°39 | n.a. | S 11 |
| M12 | 23 13 15 | 16°19'54 | 6♈57 | 3°53 | 11°57 | 4°32 | 17°44 | 5°33 | 4°32 | 19°38 | 17°32 | 18°20 | 18°15 | 10°46 | n.a. | M12 |
| T 13 | 23 17 12 | 17°19'22 | 22° 4 | 5°36 | 13° 9 | 5°16 | 17°43 | 5°39 | 4°35 | 19°39 | 17°33 | 18°11 | 18°12 | 10°52 | n.a. | T 13 |
| W14 | 23 21 8 | 18°18'53 | 6♉55 | 7°20 | 14°22 | 5°59 | 17°43 | 5°45 | 4°38 | 19°41 | 17°33 | 18° 4 | 18° 8 | 10°59 | n.a. | W14 |
| T 15 | 23 25 5 | 19°18'26 | 21°23 | 9° 4 | 15°35 | 6°43 | 17°43 | 5°52 | 4°41 | 19°42 | 17°33 | 18° 0 | 18° 5 | 11° 6 | n.a. | T 15 |
| F 16 | 23 29 1 | 20°18'01 | 5♊25 | 10°48 | 16°48 | 7°27 | 17°D42 | 5°58 | 4°44 | 19°43 | 17°33 | 17°58 | 18° 2 | 11°12 | n.a. | F 16 |
| S 17 | 23 32 58 | 21°17'39 | 19° 2 | 12°32 | 18° 1 | 8°10 | 17°42 | 6° 4 | 4°47 | 19°45 | 17°33 | 17°58 | 17°59 | 11°19 | n.a. | S 17 |
| S 18 | 23 36 54 | 22°17'19 | 2♋16 | 14°16 | 19°14 | 8°54 | 17°43 | 6°10 | 4°50 | 19°46 | 17°33 | 17°58 | 17°56 | 11°26 | n.a. | S 18 |
| M19 | 23 40 51 | 23°17'01 | 15°10 | 16° 0 | 20°27 | 9°38 | 17°43 | 6°16 | 4°53 | 19°47 | 17°33 | 17°57 | 17°52 | 11°32 | n.a. | M19 |
| T 20 | 23 44 48 | 24°16'46 | 27°48 | 17°44 | 21°40 | 10°22 | 17°44 | 6°22 | 4°55 | 19°48 | 17°33 | 17°53 | 17°49 | 11°39 | n.a. | T 20 |
| W21 | 23 48 44 | 25°16'33 | 10♌12 | 19°27 | 22°53 | 11° 6 | 17°45 | 6°28 | 4°58 | 19°49 | 17°R33 | 17°47 | 17°46 | 11°46 | n.a. | W21 |
| T 22 | 23 52 41 | 26°16'23 | 22°27 | 21°10 | 24° 6 | 11°50 | 17°46 | 6°34 | 5° 1 | 19°51 | 17°33 | 17°37 | 17°43 | 11°53 | n.a. | T 22 |
| F 23 | 23 56 37 | 27°16'14 | 4♍34 | 22°53 | 25°20 | 12°34 | 17°47 | 6°39 | 5° 4 | 19°52 | 17°33 | 17°25 | 17°40 | 11°59 | n.a. | F 23 |
| S 24 | 0 0 34 | 28°16'08 | 16°34 | 24°35 | 26°33 | 13°18 | 17°48 | 6°45 | 5° 6 | 19°53 | 17°33 | 17°11 | 17°37 | 12° 6 | n.a. | S 24 |
| S 25 | 0 4 30 | 29°16'04 | 28°31 | 26°16 | 27°47 | 14° 3 | 17°50 | 6°51 | 5° 9 | 19°54 | 17°33 | 16°57 | 17°33 | 12°13 | n.a. | S 25 |
| M26 | 0 8 27 | 0♎16'01 | 10♎23 | 27°57 | 29° 0 | 14°47 | 17°52 | 6°56 | 5°11 | 19°55 | 17°33 | 16°43 | 17°30 | 12°19 | n.a. | M26 |
| T 27 | 0 12 23 | 1°16'01 | 22°14 | 29°38 | 0♍14 | 15°31 | 17°54 | 7° 2 | 5°14 | 19°56 | 17°33 | 16°30 | 17°27 | 12°26 | n.a. | T 27 |
| W28 | 0 16 20 | 2°16'03 | 4♏ 4 | 1♎18 | 1°27 | 16°16 | 17°56 | 7° 7 | 5°16 | 19°57 | 17°33 | 16°21 | 17°24 | 12°33 | n.a. | W28 |
| T 29 | 0 20 17 | 3°16'06 | 15°56 | 2°57 | 2°41 | 17° 0 | 17°59 | 7°12 | 5°19 | 19°58 | 17°32 | 16°14 | 17°21 | 12°40 | n.a. | T 29 |
| F 30 | 0 24 13 | 4♎16'12 | 27♏52 | 4♎36 | 3♍55 | 17♏45 | 18♑ 1 | 7♌18 | 5♌21 | 19♋59 | 17♊32 | 16♐10 | 17♐18 | 12♎46 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 9n36 | 17s15 | 3s23 | 16n41 | 1n 1 | 20n47 | 0n 9 | 10s59 | 0s38 | 23s27 | 1s 0 | 20n22 | 1n 1 | 20n 5 | 0n38 | 22n15 | 0s 3 | 21n 5 | 2s 1 | 23s16 | 23s14 | 8s14 | | n.a. |
| F 2 | 9 14 | 20 8 | 2 32 | 16 30 | 1 11 | 20 35 | 0 12 | 11 15 | 0 39 | 23 27 | 1 0 | 20 20 | 1 1 | 20 5 | 0 38 | 22 15 | 0 3 | 21 5 | 2 1 | 23 15 | 23 13 | 8 16 | | n.a. |
| S 3 | 8 52 | 22 9 | 1 34 | 16 16 | 1 21 | 20 22 | 0 15 | 11 31 | 0 39 | 23 28 | 1 0 | 20 19 | 1 1 | 20 4 | 0 38 | 22 14 | 0 3 | 21 5 | 2 1 | 23 15 | 23 13 | 8 19 | | n.a. |
| S 4 | 8 30 | 23 10 | 0 30 | 15 58 | 1 29 | 20 9 | 0 19 | 11 47 | 0 40 | 23 28 | 1 0 | 20 17 | 1 1 | 20 3 | 0 38 | 22 14 | 0 2 | 21 5 | 2 1 | 23 15 | 23 13 | 8 21 | | n.a. |
| M 5 | 8 8 | 23 2 | 0n37 | 15 37 | 1 36 | 19 56 | 0 22 | 12 3 | 0 41 | 23 28 | 1 0 | 20 16 | 1 1 | 20 2 | 0 38 | 22 14 | 0 2 | 21 6 | 2 1 | 23 15 | 23 12 | 8 23 | | n.a. |
| T 6 | 7 45 | 21 38 | 1 45 | 15 13 | 1 42 | 19 42 | 0 25 | 12 19 | 0 41 | 23 29 | 1 0 | 20 14 | 1 1 | 20 2 | 0 38 | 22 14 | 0 2 | 21 6 | 2 1 | 23 15 | 23 12 | 8 26 | | n.a. |
| W 7 | 7 22 | 18 58 | 2 48 | 14 46 | 1 47 | 19 27 | 0 28 | 12 35 | 0 42 | 23 29 | 0 59 | 20 13 | 1 1 | 20 1 | 0 38 | 22 13 | 0 2 | 21 6 | 2 1 | 23 15 | 23 12 | 8 28 | | n.a. |
| T 8 | 6 59 | 15 6 | 3 44 | 14 17 | 1 50 | 19 12 | 0 31 | 12 51 | 0 43 | 23 29 | 0 59 | 20 11 | 1 2 | 20 0 | 0 38 | 22 13 | 0 2 | 21 6 | 2 1 | 23 15 | 23 12 | 8 31 | | n.a. |
| F 9 | 6 37 | 10 15 | 4 27 | 13 46 | 1 53 | 18 56 | 0 34 | 13 7 | 0 43 | 23 29 | 0 59 | 20 10 | 1 2 | 19 59 | 0 38 | 22 13 | 0 2 | 21 6 | 2 1 | 23 14 | 23 11 | 8 33 | | n.a. |
| S 10 | 6 13 | 4 40 | 4 53 | 13 12 | 1 55 | 18 39 | 0 37 | 13 22 | 0 44 | 23 29 | 0 59 | 20 9 | 1 2 | 19 59 | 0 38 | 22 13 | 0 2 | 21 6 | 2 1 | 23 13 | 23 11 | 8 35 | | n.a. |
| S 11 | 5 50 | 1n16 | 5 0 | 12 36 | 1 56 | 18 22 | 0 40 | 13 38 | 0 45 | 23 29 | 0 59 | 20 7 | 1 2 | 19 58 | 0 38 | 22 13 | 0 2 | 21 6 | 2 1 | 23 12 | 23 11 | 8 38 | | n.a. |
| M12 | 5 27 | 7 8 | 4 45 | 11 59 | 1 56 | 18 5 | 0 43 | 13 53 | 0 45 | 23 29 | 0 59 | 20 6 | 1 2 | 19 57 | 0 38 | 22 12 | 0 2 | 21 6 | 2 1 | 23 11 | 23 10 | 8 40 | | n.a. |
| T 13 | 5 4 | 12 32 | 4 10 | 11 21 | 1 55 | 17 47 | 0 46 | 14 8 | 0 46 | 23 29 | 0 59 | 20 4 | 1 2 | 19 56 | 0 38 | 22 12 | 0 2 | 21 6 | 2 1 | 23 10 | 23 10 | 8 42 | | n.a. |
| W14 | 4 40 | 17 5 | 3 19 | 10 41 | 1 54 | 17 28 | 0 48 | 14 24 | 0 46 | 23 29 | 0 59 | 20 3 | 1 2 | 19 56 | 0 38 | 22 12 | 0 2 | 21 6 | 2 1 | 23 10 | 23 10 | 8 45 | | n.a. |
| T 15 | 4 17 | 20 29 | 2 15 | 10 0 | 1 53 | 17 9 | 0 51 | 14 39 | 0 47 | 23 29 | 0 59 | 20 1 | 1 3 | 19 55 | 0 38 | 22 12 | 0 2 | 21 6 | 2 1 | 23 9 | 23 10 | 8 47 | | n.a. |
| F 16 | 3 53 | 22 31 | 1 6 | 9 18 | 1 50 | 16 49 | 0 54 | 14 54 | 0 48 | 23 29 | 0 59 | 20 0 | 1 3 | 19 54 | 0 38 | 22 12 | 0 2 | 21 6 | 2 1 | 23 9 | 23 9 | 8 49 | | n.a. |
| S 17 | 3 29 | 23 9 | 0s 6 | 8 35 | 1 47 | 16 29 | 0 56 | 15 9 | 0 48 | 23 29 | 0 59 | 19 59 | 1 3 | 19 54 | 0 38 | 22 12 | 0 2 | 21 6 | 2 1 | 23 9 | 23 9 | 8 52 | | n.a. |
| S 18 | 3 6 | 22 26 | 1 15 | 7 51 | 1 44 | 16 9 | 0 59 | 15 23 | 0 49 | 23 29 | 0 59 | 19 57 | 1 3 | 19 53 | 0 38 | 22 11 | 0 2 | 21 6 | 2 1 | 23 9 | 23 9 | 8 54 | | n.a. |
| M19 | 2 42 | 20 32 | 2 18 | 7 7 | 1 40 | 15 48 | 1 1 | 15 38 | 0 49 | 23 29 | 0 59 | 19 56 | 1 3 | 19 52 | 0 38 | 22 11 | 0 2 | 21 6 | 2 1 | 23 9 | 23 8 | 8 56 | | n.a. |
| T 20 | 2 18 | 17 40 | 3 14 | 6 22 | 1 36 | 15 26 | 1 3 | 15 53 | 0 50 | 23 29 | 0 59 | 19 54 | 1 3 | 19 52 | 0 38 | 22 11 | 0 2 | 21 6 | 2 1 | 23 9 | 23 8 | 8 59 | | n.a. |
| W21 | 1 54 | 14 3 | 3 59 | 5 37 | 1 32 | 15 4 | 1 6 | 16 7 | 0 50 | 23 29 | 0 59 | 19 53 | 1 4 | 19 51 | 0 38 | 22 11 | 0 2 | 21 6 | 2 1 | 23 8 | 23 8 | 9 1 | | n.a. |
| T 22 | 1 30 | 9 54 | 4 32 | 4 52 | 1 27 | 14 42 | 1 8 | 16 22 | 0 51 | 23 28 | 0 58 | 19 52 | 1 4 | 19 51 | 0 38 | 22 11 | 0 2 | 21 6 | 2 1 | 23 7 | 23 8 | 9 3 | | n.a. |
| F 23 | 1 6 | 5 24 | 4 53 | 4 7 | 1 22 | 14 19 | 1 10 | 16 36 | 0 52 | 23 28 | 0 58 | 19 50 | 1 4 | 19 50 | 0 38 | 22 11 | 0 2 | 21 6 | 2 1 | 23 6 | 23 7 | 9 6 | | n.a. |
| S 24 | 0 42 | 0 45 | 5 0 | 3 21 | 1 17 | 13 56 | 1 12 | 16 50 | 0 52 | 23 28 | 0 58 | 19 49 | 1 4 | 19 49 | 0 38 | 22 10 | 0 2 | 21 6 | 2 1 | 23 5 | 23 7 | 9 8 | | n.a. |
| S 25 | 0 18 | 3s53 | 4 54 | 2 35 | 1 11 | 13 32 | 1 14 | 17 4 | 0 53 | 23 28 | 0 58 | 19 48 | 1 4 | 19 49 | 0 39 | 22 10 | 0 2 | 21 6 | 2 1 | 23 3 | 23 7 | 9 10 | | n.a. |
| M26 | 0s 6 | 8 22 | 4 35 | 1 49 | 1 6 | 13 8 | 1 16 | 17 18 | 0 53 | 23 27 | 0 58 | 19 47 | 1 4 | 19 48 | 0 39 | 22 10 | 0 2 | 21 6 | 2 1 | 23 2 | 23 6 | 9 13 | | n.a. |
| T 27 | 0 31 | 12 31 | 4 5 | 1 4 | 1 0 | 12 43 | 1 18 | 17 31 | 0 54 | 23 27 | 0 58 | 19 45 | 1 5 | 19 48 | 0 39 | 22 10 | 0 2 | 21 6 | 2 1 | 23 1 | 23 6 | 9 15 | | n.a. |
| W28 | 0 55 | 16 11 | 3 23 | 0 18 | 0 54 | 12 18 | 1 19 | 17 45 | 0 54 | 23 27 | 0 58 | 19 44 | 1 5 | 19 47 | 0 39 | 22 10 | 0 2 | 21 6 | 2 1 | 23 0 | 23 6 | 9 17 | | n.a. |
| T 29 | 1 19 | 19 13 | 2 33 | 0s28 | 0 48 | 11 53 | 1 21 | 17 58 | 0 55 | 23 26 | 0 58 | 19 43 | 1 5 | 19 46 | 0 39 | 22 10 | 0 2 | 21 6 | 2 1 | 22 59 | 23 6 | 9 20 | | n.a. |
| F 30 | 1s43 | 21s27 | 1s35 | 1s13 | 0n41 | 11n28 | 1n23 | 18s12 | 0s55 | 23s26 | 0s58 | 19n42 | 1n 5 | 19n46 | 0n39 | 22n10 | 0s 2 | 21n 6 | 2s 1 | 22s58 | 23s 5 | 9s22 | | n.a. |

Julian Day Number = 1701212.5, Delta T = 03h05m28s
Ecliptic obliquity = 23°42'05, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°49'39, Lahiri = - 4°42'39 Julian Calendar 1 Sept. 56 BCE == Greg. Calendar 30 Aug. 056 BCE

The year -55 astronomical counting style corresponds to year 056 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 56 BCE
# geocentric

## OCTOBER 56 BCE (-55) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 0 28 10 | 5♎16'19 | 9♐58 | 6♎14 | 5♍ 9 | 18♏30 | 18♑ 4 | 7♌23 | 5♌23 | 19♋59 | 17°R32 | 16°R 8 | 17♐14 | 12♎53 | n.a. | S 1 |
| S 2 | 0 32 6 | 6°16'28 | 22°17 | 7°52 | 6°23 | 19°15 | 18° 7 | 7°28 | 5°26 | 20° 0 | 17♊32 | 16°D 8 | 17°11 | 13° 0 | n.a. | S 2 |
| M 3 | 0 36 3 | 7°16'38 | 4♑54 | 9°30 | 7°37 | 19°59 | 18°11 | 7°33 | 5°28 | 20° 1 | 17°31 | 16°R 9 | 17° 8 | 13° 6 | n.a. | M 3 |
| T 4 | 0 39 59 | 8°16'50 | 17°54 | 11° 7 | 8°51 | 20°44 | 18°14 | 7°38 | 5°30 | 20° 2 | 17°31 | 16♐ 8 | 17° 5 | 13°13 | n.a. | T 4 |
| W 5 | 0 43 56 | 9°17'04 | 1♒21 | 12°43 | 10° 5 | 21°29 | 18°18 | 7°43 | 5°32 | 20° 2 | 17°31 | 16° 6 | 17° 2 | 13°20 | n.a. | W 5 |
| T 6 | 0 47 52 | 10°17'19 | 15°17 | 14°19 | 11°19 | 22°14 | 18°21 | 7°48 | 5°34 | 20° 3 | 17°30 | 16° 2 | 16°58 | 13°27 | n.a. | T 6 |
| F 7 | 0 51 49 | 11°17'36 | 29°44 | 15°55 | 12°33 | 22°59 | 18°25 | 7°52 | 5°36 | 20° 4 | 17°30 | 15°55 | 16°55 | 13°33 | n.a. | F 7 |
| S 8 | 0 55 46 | 12°17'55 | 14♓36 | 17°30 | 13°48 | 23°45 | 18°30 | 7°57 | 5°38 | 20° 4 | 17°30 | 15°46 | 16°52 | 13°40 | n.a. | S 8 |
| S 9 | 0 59 42 | 13°18'15 | 29°48 | 19° 5 | 15° 2 | 24°30 | 18°34 | 8° 2 | 5°40 | 20° 5 | 17°29 | 15°36 | 16°49 | 13°47 | n.a. | S 9 |
| M10 | 1 3 39 | 14°18'36 | 15♈ 9 | 20°39 | 16°16 | 25°15 | 18°38 | 8° 6 | 5°42 | 20° 6 | 17°29 | 15°27 | 16°46 | 13°53 | n.a. | M10 |
| T 11 | 1 7 35 | 15°19'00 | 0♉27 | 22°13 | 17°31 | 26° 0 | 18°43 | 8°11 | 5°44 | 20° 6 | 17°28 | 15°19 | 16°43 | 14° 0 | n.a. | T 11 |
| W12 | 1 11 32 | 16°19'25 | 15°32 | 23°47 | 18°45 | 26°46 | 18°48 | 8°15 | 5°46 | 20° 7 | 17°28 | 15°13 | 16°39 | 14° 7 | n.a. | W12 |
| T 13 | 1 15 28 | 17°19'53 | 0♊15 | 25°20 | 20° 0 | 27°31 | 18°53 | 8°19 | 5°47 | 20° 7 | 17°27 | 15°10 | 16°36 | 14°14 | n.a. | T 13 |
| F 14 | 1 19 25 | 18°20'22 | 14°31 | 26°54 | 21°14 | 28°17 | 18°58 | 8°23 | 5°49 | 20° 7 | 17°27 | 15°D 9 | 16°33 | 14°20 | n.a. | F 14 |
| S 15 | 1 23 21 | 19°20'54 | 28°18 | 28°26 | 22°29 | 29° 2 | 19° 4 | 8°27 | 5°51 | 20° 8 | 17°26 | 15° 9 | 16°30 | 14°27 | n.a. | S 15 |
| S 16 | 1 27 18 | 20°21'27 | 11♋39 | 29°59 | 23°43 | 29°48 | 19° 9 | 8°31 | 5°52 | 20° 8 | 17°25 | 15°10 | 16°27 | 14°34 | n.a. | S 16 |
| M17 | 1 31 15 | 21°22'02 | 24°34 | 1♏31 | 24°58 | 0♐33 | 19°15 | 8°35 | 5°54 | 20° 9 | 17°25 | 15°R11 | 16°23 | 14°40 | n.a. | M17 |
| T 18 | 1 35 11 | 22°22'39 | 7♌10 | 3° 3 | 26°13 | 1°19 | 19°21 | 8°39 | 5°56 | 20° 9 | 17°24 | 15° 9 | 16°20 | 14°47 | n.a. | T 18 |
| W19 | 1 39 8 | 23°23'18 | 19°30 | 4°35 | 27°28 | 2° 5 | 19°27 | 8°43 | 5°57 | 20° 9 | 17°24 | 15° 6 | 16°17 | 14°54 | n.a. | W19 |
| T 20 | 1 43 4 | 24°23'59 | 1♍37 | 6° 6 | 28°42 | 2°51 | 19°34 | 8°46 | 5°58 | 20° 9 | 17°23 | 15° 0 | 16°14 | 15° 0 | n.a. | T 20 |
| F 21 | 1 47 1 | 25°24'41 | 13°37 | 7°37 | 29°57 | 3°37 | 19°40 | 8°50 | 6° 0 | 20° 9 | 17°22 | 14°52 | 16°11 | 15° 7 | n.a. | F 21 |
| S 22 | 1 50 57 | 26°25'25 | 25°31 | 9° 8 | 1♎12 | 4°22 | 19°47 | 8°53 | 6° 1 | 20°10 | 17°22 | 14°43 | 16° 8 | 15°14 | n.a. | S 22 |
| S 23 | 1 54 54 | 27°26'10 | 7♎23 | 10°39 | 2°27 | 5° 8 | 19°54 | 8°56 | 6° 2 | 20°10 | 17°21 | 14°33 | 16° 4 | 15°21 | n.a. | S 23 |
| M24 | 1 58 50 | 28°26'58 | 19°14 | 12° 9 | 3°42 | 5°54 | 20° 0 | 9° 0 | 6° 3 | 20°10 | 17°20 | 14°24 | 16° 1 | 15°27 | n.a. | M24 |
| T 25 | 2 2 47 | 29°27'46 | 1♏ 6 | 13°39 | 4°57 | 6°41 | 20° 8 | 9° 3 | 6° 5 | 20°10 | 17°19 | 14°16 | 15°58 | 15°34 | n.a. | T 25 |
| W26 | 2 6 43 | 0♏28'36 | 13° 0 | 15° 8 | 6°12 | 7°27 | 20°15 | 9° 6 | 6° 6 | 20°R10 | 17°18 | 14° 9 | 15°55 | 15°41 | n.a. | W26 |
| T 27 | 2 10 40 | 1°29'28 | 24°58 | 16°38 | 7°27 | 8°13 | 20°22 | 9° 9 | 6° 7 | 20°10 | 17°18 | 14° 5 | 15°52 | 15°47 | n.a. | T 27 |
| F 28 | 2 14 37 | 2°30'20 | 7♐ 3 | 18° 6 | 8°42 | 8°59 | 20°30 | 9°11 | 6° 8 | 20°10 | 17°17 | 14° 3 | 15°49 | 15°54 | n.a. | F 28 |
| S 29 | 2 18 33 | 3°31'14 | 19°16 | 19°35 | 9°57 | 9°45 | 20°38 | 9°14 | 6° 9 | 20°10 | 17°16 | 14°D 3 | 15°45 | 16° 1 | n.a. | S 29 |
| S 30 | 2 22 30 | 4°32'09 | 1♑40 | 21° 3 | 11°12 | 10°32 | 20°46 | 9°17 | 6° 9 | 20° 9 | 17°15 | 14° 4 | 15°42 | 16° 8 | n.a. | S 30 |
| M31 | 2 26 26 | 5♏33'05 | 14♑20 | 22♏30 | 12♎27 | 11♐18 | 20♑54 | 9♌19 | 6♌10 | 20♋ 9 | 17♊14 | 14♐ 5 | 15♐39 | 16♎14 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 2s 7 | 22s44 | 0s33 | 1s58 | 0n35 | 11n 2 | 1n24 | 18s25 | 0s56 | 23s25 | 0s58 | 19n41 | 1n 5 | 19n45 | 0n39 | 22n 9 | 0s 2 | 21n 6 | 2s 1 | 22s58 | 23s 5 | 9s24 | | n.a. |
| S 2 | 2 31 | 22 56 | 0n33 | 2 43 | 0 28 | 10 36 | 1 26 | 18 38 | 0 56 | 23 25 | 0 58 | 19 39 | 1 5 | 19 45 | 0 39 | 22 9 | 0 2 | 21 6 | 2 1 | 22 58 | 23 5 | 9 27 | | n.a. |
| M 3 | 2 55 | 21 58 | 1 38 | 3 28 | 0 22 | 10 9 | 1 27 | 18 50 | 0 57 | 23 24 | 0 58 | 19 38 | 1 6 | 19 44 | 0 39 | 22 9 | 0 2 | 21 6 | 2 1 | 22 58 | 23 4 | 9 29 | | n.a. |
| T 4 | 3 19 | 19 50 | 2 41 | 4 12 | 0 15 | 9 42 | 1 28 | 19 3 | 0 57 | 23 24 | 0 58 | 19 37 | 1 6 | 19 44 | 0 39 | 22 9 | 0 2 | 21 6 | 2 1 | 22 58 | 23 4 | 9 31 | | n.a. |
| W 5 | 3 43 | 16 34 | 3 36 | 4 57 | 0 9 | 9 15 | 1 30 | 19 15 | 0 57 | 23 23 | 0 57 | 19 36 | 1 6 | 19 43 | 0 39 | 22 9 | 0 2 | 21 6 | 2 1 | 22 58 | 23 4 | 9 34 | | n.a. |
| T 6 | 4 7 | 12 16 | 4 21 | 5 40 | 0 2 | 8 48 | 1 31 | 19 28 | 0 58 | 23 22 | 0 57 | 19 35 | 1 6 | 19 43 | 0 39 | 22 9 | 0 2 | 21 6 | 2 1 | 22 58 | 23 3 | 9 36 | | n.a. |
| F 7 | 4 31 | 7 8 | 4 52 | 6 24 | 0s 4 | 8 20 | 1 32 | 19 40 | 0 58 | 23 22 | 0 57 | 19 34 | 1 6 | 19 42 | 0 39 | 22 9 | 0 2 | 21 6 | 2 1 | 22 57 | 23 3 | 9 38 | | n.a. |
| S 8 | 4 55 | 1 28 | 5 3 | 7 7 | 0 11 | 7 52 | 1 33 | 19 52 | 0 59 | 23 21 | 0 57 | 19 33 | 1 6 | 19 42 | 0 39 | 22 9 | 0 2 | 21 6 | 2 1 | 22 56 | 23 3 | 9 40 | | n.a. |
| S 9 | 5 18 | 4n25 | 4 54 | 7 49 | 0 18 | 7 24 | 1 34 | 20 3 | 0 59 | 23 21 | 0 57 | 19 32 | 1 7 | 19 41 | 0 39 | 22 9 | 0 2 | 21 6 | 2 1 | 22 55 | 23 2 | 9 43 | | n.a. |
| M10 | 5 42 | 10 5 | 4 24 | 8 31 | 0 24 | 6 55 | 1 35 | 20 15 | 1 0 | 23 20 | 0 57 | 19 31 | 1 7 | 19 41 | 0 39 | 22 9 | 0 2 | 21 6 | 2 1 | 22 54 | 23 2 | 9 45 | | n.a. |
| T 11 | 6 6 | 15 6 | 3 35 | 9 13 | 0 31 | 6 27 | 1 35 | 20 26 | 1 0 | 23 19 | 0 57 | 19 30 | 1 7 | 19 41 | 0 39 | 22 9 | 0 2 | 21 6 | 2 1 | 22 53 | 23 2 | 9 47 | | n.a. |
| W12 | 6 29 | 19 5 | 2 31 | 9 54 | 0 37 | 5 58 | 1 36 | 20 38 | 1 0 | 23 18 | 0 57 | 19 29 | 1 7 | 19 40 | 0 39 | 22 9 | 0 2 | 21 6 | 2 1 | 22 52 | 23 1 | 9 49 | | n.a. |
| T 13 | 6 53 | 21 43 | 1 19 | 10 35 | 0 44 | 5 29 | 1 37 | 20 48 | 1 1 | 23 17 | 0 57 | 19 28 | 1 7 | 19 40 | 0 39 | 22 8 | 0 2 | 21 6 | 2 1 | 22 52 | 23 1 | 9 52 | | n.a. |
| F 14 | 7 16 | 22 51 | 0 3 | 11 15 | 0 50 | 5 0 | 1 37 | 20 59 | 1 1 | 23 17 | 0 57 | 19 27 | 1 8 | 19 39 | 0 39 | 22 8 | 0 2 | 21 6 | 2 1 | 22 52 | 23 1 | 9 54 | | n.a. |
| S 15 | 7 39 | 22 31 | 1s10 | 11 55 | 0 56 | 4 30 | 1 38 | 21 10 | 1 2 | 23 16 | 0 57 | 19 26 | 1 8 | 19 39 | 0 39 | 22 8 | 0 2 | 21 6 | 2 1 | 22 52 | 23 0 | 9 56 | | n.a. |
| S 16 | 8 2 | 20 54 | 2 17 | 12 33 | 1 2 | 4 1 | 1 38 | 21 20 | 1 2 | 23 15 | 0 57 | 19 25 | 1 8 | 19 39 | 0 39 | 22 8 | 0 2 | 21 6 | 2 1 | 22 52 | 23 0 | 9 59 | | n.a. |
| M17 | 8 25 | 18 14 | 3 15 | 13 12 | 1 8 | 3 31 | 1 38 | 21 30 | 1 2 | 23 14 | 0 56 | 19 25 | 1 8 | 19 38 | 0 39 | 22 8 | 0 2 | 21 6 | 2 1 | 22 52 | 23 0 | 10 1 | | n.a. |
| T 18 | 8 48 | 14 47 | 4 2 | 13 50 | 1 14 | 3 1 | 1 38 | 21 40 | 1 3 | 23 13 | 0 56 | 19 24 | 1 8 | 19 38 | 0 39 | 22 8 | 0 2 | 21 5 | 2 1 | 22 52 | 22 59 | 10 3 | | n.a. |
| W19 | 9 11 | 10 45 | 4 37 | 14 27 | 1 20 | 2 32 | 1 39 | 21 50 | 1 3 | 23 12 | 0 56 | 19 23 | 1 9 | 19 38 | 0 39 | 22 8 | 0 2 | 21 5 | 2 1 | 22 51 | 22 59 | 10 5 | | n.a. |
| T 20 | 9 34 | 6 22 | 4 58 | 15 3 | 1 26 | 2 2 | 1 39 | 22 0 | 1 3 | 23 11 | 0 56 | 19 22 | 1 9 | 19 37 | 0 39 | 22 8 | 0 2 | 21 5 | 2 1 | 22 51 | 22 59 | 10 8 | | n.a. |
| F 21 | 9 56 | 1 48 | 5 7 | 15 38 | 1 31 | 1 31 | 1 39 | 22 9 | 1 4 | 23 10 | 0 56 | 19 21 | 1 9 | 19 37 | 0 40 | 22 8 | 0 2 | 21 5 | 2 1 | 22 50 | 22 59 | 10 10 | | n.a. |
| S 22 | 10 18 | 2s48 | 5 1 | 16 13 | 1 37 | 1 1 | 1 38 | 22 18 | 1 4 | 23 9 | 0 56 | 19 21 | 1 9 | 19 37 | 0 40 | 22 8 | 0 2 | 21 5 | 2 1 | 22 49 | 22 58 | 10 12 | | n.a. |
| S 23 | 10 40 | 7 17 | 4 43 | 16 47 | 1 42 | 0 31 | 1 38 | 22 27 | 1 4 | 23 8 | 0 56 | 19 20 | 1 9 | 19 36 | 0 40 | 22 8 | 0 2 | 21 5 | 2 1 | 22 48 | 22 58 | 10 14 | | n.a. |
| M24 | 11 2 | 11 30 | 4 13 | 17 20 | 1 47 | 0 1 | 1 38 | 22 35 | 1 5 | 23 7 | 0 56 | 19 19 | 1 10 | 19 36 | 0 40 | 22 8 | 0 2 | 21 5 | 2 1 | 22 47 | 22 58 | 10 17 | | n.a. |
| T 25 | 11 24 | 15 16 | 3 31 | 17 53 | 1 51 | 0s30 | 1 38 | 22 44 | 1 5 | 23 6 | 0 56 | 19 19 | 1 10 | 19 36 | 0 40 | 22 8 | 0 2 | 21 5 | 2 1 | 22 46 | 22 57 | 10 19 | | n.a. |
| W26 | 11 46 | 18 27 | 2 40 | 18 24 | 1 56 | 1 0 | 1 37 | 22 52 | 1 5 | 23 5 | 0 56 | 19 18 | 1 10 | 19 36 | 0 40 | 22 8 | 0 2 | 21 5 | 2 1 | 22 45 | 22 57 | 10 21 | | n.a. |
| T 27 | 12 7 | 20 52 | 1 42 | 18 54 | 2 0 | 1 30 | 1 37 | 23 0 | 1 6 | 23 3 | 0 56 | 19 18 | 1 10 | 19 35 | 0 40 | 22 8 | 0 2 | 21 5 | 2 1 | 22 44 | 22 56 | 10 23 | | n.a. |
| F 28 | 12 28 | 22 21 | 0 38 | 19 24 | 2 4 | 2 1 | 1 36 | 23 7 | 1 6 | 23 2 | 0 56 | 19 17 | 1 10 | 19 35 | 0 40 | 22 8 | 0 2 | 21 5 | 2 1 | 22 44 | 22 56 | 10 25 | | n.a. |
| S 29 | 12 50 | 22 47 | 0n28 | 19 52 | 2 8 | 2 31 | 1 36 | 23 15 | 1 6 | 23 1 | 0 56 | 19 16 | 1 11 | 19 35 | 0 40 | 22 8 | 0 2 | 21 5 | 2 1 | 22 44 | 22 56 | 10 28 | | n.a. |
| S 30 | 13 10 | 22 7 | 1 34 | 20 19 | 2 11 | 3 1 | 1 35 | 23 22 | 1 6 | 23 0 | 0 56 | 19 16 | 1 11 | 19 35 | 0 40 | 22 8 | 0 2 | 21 5 | 2 1 | 22 44 | 22 55 | 10 30 | | n.a. |
| M31 | 13s31 | 20s19 | 2n37 | 20s45 | 2s14 | 3s32 | 1n34 | 23s29 | 1s 7 | 22s58 | 0s55 | 19n15 | 1n11 | 19n35 | 0n40 | 22n 8 | 0s 2 | 21n 5 | 2s 1 | 22s44 | 22s55 | 10s32 | | n.a. |

Julian Day Number = 1701242.5, Delta T = 03h05m27s
Ecliptic obliquity = 23°42'05, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°49'35, Lahiri = - 4°42'35 Julian Calendar 1 Oct. 56 BCE == Greg. Calendar 29 Sept. 056 BCE

The year -55 astronomical counting style corresponds to year 056 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 56 BCE
# geocentric

## NOVEMBER 56 BCE (-55) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 2 30 23 | 6♏34'01 | 27♑18 | 23♏56 | 13♎42 | 12♐ 4 | 21♑ 2 | 9♒22 | 6♒11 | 20°R 9 | 17°R13 | 14♐ 7 | 15♐36 | 16♎21 | n.a. | T 1 |
| W 2 | 2 34 19 | 7°34'59 | 10♓39 | 25°22 | 14°57 | 12°51 | 21°10 | 9°24 | 6°12 | 20♋ 9 | 17♊12 | 14°R 7 | 15°33 | 16°28 | n.a. | W 2 |
| T 3 | 2 38 16 | 8°35'57 | 24°24 | 26°47 | 16°12 | 13°37 | 21°19 | 9°26 | 6°12 | 20° 9 | 17°12 | 14° 6 | 15°29 | 16°34 | n.a. | T 3 |
| F 4 | 2 42 12 | 9°36'56 | 8♈35 | 28°11 | 17°28 | 14°24 | 21°27 | 9°28 | 6°13 | 20° 8 | 17°11 | 14° 3 | 15°26 | 16°41 | n.a. | F 4 |
| S 5 | 2 46 9 | 10°37'56 | 23°10 | 29°34 | 18°43 | 15°10 | 21°36 | 9°30 | 6°13 | 20° 8 | 17°10 | 13°59 | 15°23 | 16°48 | n.a. | S 5 |
| S 6 | 2 50 6 | 11°38'57 | 8♈ 5 | 0♐55 | 19°58 | 15°57 | 21°45 | 9°32 | 6°14 | 20° 8 | 17° 9 | 13°54 | 15°20 | 16°54 | n.a. | S 6 |
| M 7 | 2 54 2 | 12°39'58 | 23°12 | 2°15 | 21°13 | 16°43 | 21°54 | 9°34 | 6°14 | 20° 7 | 17° 8 | 13°50 | 15°17 | 17° 1 | n.a. | M 7 |
| T 8 | 2 57 59 | 13°41'01 | 8♉22 | 3°33 | 22°28 | 17°30 | 22° 3 | 9°35 | 6°15 | 20° 7 | 17° 7 | 13°46 | 15°14 | 17° 8 | n.a. | T 8 |
| W 9 | 3 1 55 | 14°42'04 | 23°26 | 4°49 | 23°44 | 18°17 | 22°12 | 9°37 | 6°15 | 20° 6 | 17° 6 | 13°43 | 15°10 | 17°15 | n.a. | W 9 |
| T 10 | 3 5 52 | 15°43'08 | 8♊13 | 6° 2 | 24°59 | 19° 3 | 22°22 | 9°38 | 6°15 | 20° 6 | 17° 5 | 13°D42 | 15° 7 | 17°21 | n.a. | T 10 |
| F 11 | 3 9 48 | 16°44'13 | 22°38 | 7°13 | 26°14 | 19°50 | 22°31 | 9°40 | 6°15 | 20° 5 | 17° 4 | 13°42 | 15° 4 | 17°28 | n.a. | F 11 |
| S 12 | 3 13 45 | 17°45'20 | 6♋36 | 8°20 | 27°30 | 20°37 | 22°41 | 9°41 | 6°16 | 20° 5 | 17° 2 | 13°43 | 15° 1 | 17°35 | n.a. | S 12 |
| S 13 | 3 17 42 | 18°46'27 | 20° 6 | 9°23 | 28°45 | 21°24 | 22°51 | 9°42 | 6°16 | 20° 4 | 17° 1 | 13°44 | 14°58 | 17°41 | n.a. | S 13 |
| M14 | 3 21 38 | 19°47'35 | 3♌10 | 10°22 | 0♏ 0 | 22°10 | 23° 1 | 9°43 | 6°R16 | 20° 3 | 17° 0 | 13°46 | 14°55 | 17°48 | n.a. | M14 |
| T 15 | 3 25 35 | 20°48'44 | 15°51 | 11°16 | 1°15 | 22°57 | 23°11 | 9°44 | 6°16 | 20° 3 | 16°59 | 13°R47 | 14°51 | 17°55 | n.a. | T 15 |
| W16 | 3 29 31 | 21°49'54 | 28°14 | 12° 4 | 2°31 | 23°44 | 23°21 | 9°45 | 6°16 | 20° 2 | 16°58 | 13°47 | 14°48 | 18° 1 | n.a. | W16 |
| T 17 | 3 33 28 | 22°51'05 | 10♍21 | 12°46 | 3°46 | 24°31 | 23°31 | 9°45 | 6°15 | 20° 1 | 16°57 | 13°46 | 14°45 | 18° 8 | n.a. | T 17 |
| F 18 | 3 37 24 | 23°52'17 | 22°19 | 13°20 | 5° 2 | 25°18 | 23°42 | 9°46 | 6°15 | 20° 1 | 16°56 | 13°44 | 14°42 | 18°15 | n.a. | F 18 |
| S 19 | 3 41 21 | 24°53'30 | 4♎11 | 13°45 | 6°17 | 26° 5 | 23°52 | 9°46 | 6°15 | 20° 0 | 16°55 | 13°41 | 14°39 | 18°22 | n.a. | S 19 |
| S 20 | 3 45 17 | 25°54'43 | 16° 1 | 14° 2 | 7°32 | 26°52 | 24° 3 | 9°47 | 6°15 | 19°59 | 16°54 | 13°38 | 14°35 | 18°28 | n.a. | S 20 |
| M21 | 3 49 14 | 26°55'57 | 27°52 | 14°R 9 | 8°48 | 27°39 | 24°13 | 9°47 | 6°14 | 19°58 | 16°52 | 13°35 | 14°32 | 18°35 | n.a. | M21 |
| T 22 | 3 53 11 | 27°57'11 | 9♏47 | 14° 4 | 10° 3 | 28°26 | 24°24 | 9°R47 | 6°14 | 19°57 | 16°51 | 13°32 | 14°29 | 18°42 | n.a. | T 22 |
| W23 | 3 57 7 | 28°58'26 | 21°48 | 13°49 | 11°18 | 29°13 | 24°35 | 9°47 | 6°13 | 19°56 | 16°50 | 13°30 | 14°26 | 18°48 | n.a. | W23 |
| T 24 | 4 1 4 | 29°59'41 | 3♐57 | 13°21 | 12°34 | 0♑ 0 | 24°46 | 9°47 | 6°13 | 19°55 | 16°49 | 13°29 | 14°23 | 18°55 | n.a. | T 24 |
| F 25 | 4 5 0 | 1♐ 0'57 | 16°15 | 12°42 | 13°49 | 0°47 | 24°57 | 9°47 | 6°12 | 19°54 | 16°48 | 13°D29 | 14°20 | 19° 2 | n.a. | F 25 |
| S 26 | 4 8 57 | 2° 2'13 | 28°44 | 11°52 | 15° 5 | 1°34 | 25° 9 | 9°46 | 6°12 | 19°53 | 16°46 | 13°30 | 14°16 | 19° 8 | n.a. | S 26 |
| S 27 | 4 12 53 | 3° 3'29 | 11♑25 | 10°51 | 16°20 | 2°22 | 25°20 | 9°46 | 6°11 | 19°52 | 16°45 | 13°31 | 14°13 | 19°15 | n.a. | S 27 |
| M28 | 4 16 50 | 4° 4'45 | 24°18 | 9°42 | 17°36 | 3° 9 | 25°32 | 9°45 | 6°10 | 19°51 | 16°44 | 13°32 | 14°10 | 19°22 | n.a. | M28 |
| T 29 | 4 20 46 | 5° 6'01 | 7♓27 | 8°26 | 18°51 | 3°56 | 25°43 | 9°45 | 6° 9 | 19°50 | 16°43 | 13°32 | 14° 7 | 19°29 | n.a. | T 29 |
| W30 | 4 24 43 | 6♐ 7'17 | 20♓51 | 7♐ 6 | 20♏ 6 | 4♑43 | 25♑55 | 9♒44 | 6♒ 8 | 19♋49 | 16♊41 | 13♐33 | 14♐ 4 | 19♎35 | n.a. | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 13s51 | 17s26 | 3n34 | 21s10 | 2s17 | 4s 2 | 1n34 | 23s35 | 1s 7 | 22s57 | 0s55 | 19n15 | 1n11 | 19n35 | 0n40 | 22n 8 | 0s 2 | 21n 5 | 2s 1 | 22s45 | 22s55 | 10s34 | | n.a. |
| W 2 | 14 11 | 13 35 | 4 21 | 21 34 | 2 19 | 4 32 | 1 33 | 23 42 | 1 7 | 22 55 | 0 55 | 19 15 | 1 11 | 19 34 | 0 40 | 22 8 | 0 2 | 21 5 | 2 1 | 22 45 | 22 54 | 10 36 | | n.a. |
| T 3 | 14 31 | 8 55 | 4 54 | 21 56 | 2 21 | 5 2 | 1 32 | 23 48 | 1 7 | 22 54 | 0 55 | 19 14 | 1 12 | 19 34 | 0 40 | 22 8 | 0 2 | 21 5 | 2 1 | 22 45 | 22 54 | 10 39 | | n.a. |
| F 4 | 14 51 | 3 39 | 5 11 | 22 17 | 2 22 | 5 32 | 1 31 | 23 54 | 1 8 | 22 53 | 0 55 | 19 14 | 1 12 | 19 34 | 0 40 | 22 9 | 0 2 | 21 5 | 2 0 | 22 44 | 22 54 | 10 41 | | n.a. |
| S 5 | 15 10 | 1n58 | 5 8 | 22 36 | 2 23 | 6 2 | 1 30 | 23 59 | 1 8 | 22 51 | 0 55 | 19 14 | 1 12 | 19 34 | 0 40 | 22 9 | 0 2 | 21 5 | 2 0 | 22 44 | 22 53 | 10 43 | | n.a. |
| S 6 | 15 30 | 7 35 | 4 45 | 22 54 | 2 23 | 6 32 | 1 28 | 24 5 | 1 8 | 22 50 | 0 55 | 19 13 | 1 12 | 19 34 | 0 40 | 22 9 | 0 2 | 21 4 | 2 0 | 22 43 | 22 53 | 10 45 | | n.a. |
| M 7 | 15 48 | 12 51 | 4 2 | 23 11 | 2 23 | 7 1 | 1 27 | 24 10 | 1 8 | 22 48 | 0 55 | 19 13 | 1 13 | 19 34 | 0 40 | 22 9 | 0 2 | 21 4 | 2 0 | 22 43 | 22 53 | 10 47 | | n.a. |
| T 8 | 16 7 | 17 18 | 3 1 | 23 25 | 2 22 | 7 31 | 1 26 | 24 15 | 1 8 | 22 47 | 0 55 | 19 13 | 1 13 | 19 34 | 0 40 | 22 9 | 0 2 | 21 4 | 2 0 | 22 42 | 22 52 | 10 50 | | n.a. |
| W 9 | 16 25 | 20 35 | 1 49 | 23 38 | 2 21 | 8 0 | 1 25 | 24 19 | 1 9 | 22 45 | 0 55 | 19 13 | 1 13 | 19 34 | 0 40 | 22 9 | 0 2 | 21 4 | 2 0 | 22 42 | 22 52 | 10 52 | | n.a. |
| T 10 | 16 43 | 22 25 | 0 30 | 23 49 | 2 18 | 8 29 | 1 23 | 24 23 | 1 9 | 22 43 | 0 55 | 19 12 | 1 13 | 19 34 | 0 40 | 22 9 | 0 2 | 21 4 | 2 0 | 22 42 | 22 52 | 10 54 | | n.a. |
| F 11 | 17 1 | 22 41 | 0s49 | 23 58 | 2 15 | 8 58 | 1 22 | 24 27 | 1 9 | 22 42 | 0 55 | 19 12 | 1 13 | 19 34 | 0 40 | 22 9 | 0 2 | 21 4 | 2 0 | 22 42 | 22 51 | 10 56 | | n.a. |
| S 12 | 17 19 | 21 30 | 2 3 | 24 6 | 2 11 | 9 27 | 1 20 | 24 31 | 1 9 | 22 40 | 0 55 | 19 12 | 1 14 | 19 34 | 0 40 | 22 9 | 0 2 | 21 4 | 2 0 | 22 42 | 22 51 | 10 58 | | n.a. |
| S 13 | 17 36 | 19 6 | 3 7 | 24 11 | 2 6 | 9 55 | 1 19 | 24 34 | 1 9 | 22 38 | 0 55 | 19 12 | 1 14 | 19 34 | 0 40 | 22 9 | 0 2 | 21 4 | 2 0 | 22 42 | 22 51 | 11 1 | | n.a. |
| M14 | 17 53 | 15 47 | 4 0 | 24 14 | 2 0 | 10 23 | 1 17 | 24 37 | 1 9 | 22 37 | 0 55 | 19 12 | 1 14 | 19 34 | 0 41 | 22 9 | 0 2 | 21 4 | 2 0 | 22 42 | 22 50 | 11 3 | | n.a. |
| T 15 | 18 9 | 11 49 | 4 39 | 24 15 | 1 53 | 10 52 | 1 16 | 24 40 | 1 10 | 22 35 | 0 55 | 19 12 | 1 14 | 19 34 | 0 41 | 22 9 | 0 2 | 21 4 | 2 0 | 22 42 | 22 50 | 11 5 | | n.a. |
| W16 | 18 25 | 7 28 | 5 4 | 24 13 | 1 45 | 11 19 | 1 14 | 24 43 | 1 10 | 22 33 | 0 54 | 19 12 | 1 15 | 19 34 | 0 41 | 22 10 | 0 2 | 21 4 | 2 0 | 22 42 | 22 49 | 11 7 | | n.a. |
| T 17 | 18 41 | 2 55 | 5 15 | 24 10 | 1 36 | 11 47 | 1 12 | 24 45 | 1 10 | 22 31 | 0 54 | 19 12 | 1 15 | 19 34 | 0 41 | 22 10 | 0 2 | 21 4 | 2 0 | 22 42 | 22 49 | 11 9 | | n.a. |
| F 18 | 18 57 | 1s41 | 5 12 | 24 3 | 1 25 | 12 14 | 1 10 | 24 47 | 1 10 | 22 29 | 0 54 | 19 12 | 1 15 | 19 34 | 0 41 | 22 10 | 0 2 | 21 4 | 2 0 | 22 42 | 22 49 | 11 11 | | n.a. |
| S 19 | 19 12 | 6 11 | 4 55 | 23 55 | 1 13 | 12 41 | 1 9 | 24 49 | 1 10 | 22 27 | 0 54 | 19 12 | 1 15 | 19 34 | 0 41 | 22 10 | 0 2 | 21 4 | 2 0 | 22 41 | 22 48 | 11 13 | | n.a. |
| S 20 | 19 27 | 10 27 | 4 26 | 23 43 | 1 0 | 13 8 | 1 7 | 24 50 | 1 10 | 22 26 | 0 54 | 19 12 | 1 15 | 19 34 | 0 41 | 22 10 | 0 2 | 21 4 | 2 0 | 22 41 | 22 48 | 11 16 | | n.a. |
| M21 | 19 41 | 14 20 | 3 46 | 23 29 | 0 45 | 13 34 | 1 5 | 24 51 | 1 10 | 22 24 | 0 54 | 19 12 | 1 16 | 19 35 | 0 41 | 22 10 | 0 2 | 21 3 | 2 0 | 22 41 | 22 48 | 11 18 | | n.a. |
| T 22 | 19 55 | 17 41 | 2 56 | 23 13 | 0 29 | 14 0 | 1 3 | 24 52 | 1 10 | 22 22 | 0 54 | 19 13 | 1 16 | 19 35 | 0 41 | 22 10 | 0 2 | 21 3 | 2 0 | 22 40 | 22 47 | 11 20 | | n.a. |
| W23 | 20 9 | 20 18 | 1 57 | 22 54 | 0 11 | 14 26 | 1 1 | 24 52 | 1 10 | 22 20 | 0 54 | 19 13 | 1 16 | 19 35 | 0 41 | 22 11 | 0 2 | 21 3 | 2 0 | 22 40 | 22 47 | 11 22 | | n.a. |
| T 24 | 20 22 | 22 2 | 0 53 | 22 32 | 0n 7 | 14 51 | 0 59 | 24 53 | 1 11 | 22 18 | 0 54 | 19 13 | 1 16 | 19 35 | 0 41 | 22 11 | 0 2 | 21 3 | 2 0 | 22 40 | 22 47 | 11 24 | | n.a. |
| F 25 | 20 35 | 22 44 | 0n15 | 22 8 | 0 27 | 15 16 | 0 57 | 24 52 | 1 11 | 22 15 | 0 54 | 19 13 | 1 17 | 19 35 | 0 41 | 22 11 | 0 2 | 21 3 | 2 0 | 22 40 | 22 46 | 11 26 | | n.a. |
| S 26 | 20 48 | 22 18 | 1 24 | 21 41 | 0 47 | 15 40 | 0 54 | 24 52 | 1 11 | 22 13 | 0 54 | 19 14 | 1 17 | 19 35 | 0 41 | 22 11 | 0 2 | 21 3 | 2 0 | 22 40 | 22 46 | 11 28 | | n.a. |
| S 27 | 21 0 | 20 44 | 2 29 | 21 13 | 1 7 | 16 4 | 0 52 | 24 51 | 1 11 | 22 11 | 0 54 | 19 14 | 1 17 | 19 36 | 0 41 | 22 11 | 0 2 | 21 3 | 2 0 | 22 40 | 22 45 | 11 31 | | n.a. |
| M28 | 21 12 | 18 5 | 3 28 | 20 43 | 1 27 | 16 28 | 0 50 | 24 50 | 1 11 | 22 9 | 0 54 | 19 14 | 1 17 | 19 36 | 0 41 | 22 11 | 0 2 | 21 3 | 2 0 | 22 40 | 22 45 | 11 33 | | n.a. |
| T 29 | 21 23 | 14 28 | 4 17 | 20 13 | 1 46 | 16 51 | 0 48 | 24 49 | 1 11 | 22 7 | 0 54 | 19 15 | 1 17 | 19 36 | 0 41 | 22 11 | 0 2 | 21 3 | 1 59 | 22 40 | 22 45 | 11 35 | | n.a. |
| W30 | 21s34 | 10s 4 | 4n53 | 19s42 | 2n 4 | 17s14 | 0n46 | 24s48 | 1s11 | 22s 5 | 0s54 | 19n15 | 1n18 | 19n36 | 0n41 | 22n12 | 0s 2 | 21n 3 | 1s59 | 22s41 | 22s44 | 11s37 | | n.a. |

Julian Day Number = 1701273.5, Delta T = 03h05m26s
Ecliptic obliquity = 23°42'04, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°49'31, Lahiri = - 4°42'30 Julian Calendar 1 Nov. 56 BCE == Greg. Calendar 30 Oct. 056 BCE

The year -55 astronomical counting style corresponds to year 056 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 56 BCE
# geocentric

## DECEMBER 56 BCE (-55) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 4 28 40 | 7♐ 8'32 | 4♓33 | 5°R44 | 21♏22 | 5♑30 | 26♑ 7 | 9°R43 | 6°R 7 | 19°R48 | 16°R40 | 13°R33 | 14♐ 0 | 19♎42 | n.a. | T 1 |
| F 2 | 4 32 36 | 8° 9'47 | 18°32 | 4♐23 | 22°37 | 6°18 | 26°18 | 9♌42 | 6♌ 7 | 19♋47 | 16♊39 | 13♐33 | 13°57 | 19°49 | n.a. | F 2 |
| S 3 | 4 36 33 | 9°11'02 | 2♈49 | 3° 6 | 23°53 | 7° 5 | 26°30 | 9°41 | 6° 6 | 19°46 | 16°38 | 13°33 | 13°54 | 19°55 | n.a. | S 3 |
| S 4 | 4 40 29 | 10°12'17 | 17°19 | 1°55 | 25° 8 | 7°52 | 26°42 | 9°40 | 6° 4 | 19°45 | 16°36 | 13°33 | 13°51 | 20° 2 | n.a. | S 4 |
| M 5 | 4 44 26 | 11°13'31 | 2♉ 0 | 0°52 | 26°23 | 8°39 | 26°54 | 9°38 | 6° 3 | 19°43 | 16°35 | 13°32 | 13°48 | 20° 9 | n.a. | M 5 |
| T 6 | 4 48 22 | 12°14'45 | 16°45 | 29♏57 | 27°39 | 9°27 | 27° 7 | 9°37 | 6° 2 | 19°42 | 16°34 | 13°32 | 13°45 | 20°15 | n.a. | T 6 |
| W 7 | 4 52 19 | 13°15'58 | 1♊29 | 29°13 | 28°54 | 10°14 | 27°19 | 9°35 | 6° 1 | 19°41 | 16°33 | 13°D32 | 13°41 | 20°22 | n.a. | W 7 |
| T 8 | 4 56 15 | 14°17'12 | 16° 3 | 28°38 | 0♐ 9 | 11° 1 | 27°31 | 9°34 | 6° 0 | 19°40 | 16°31 | 13°R32 | 13°38 | 20°29 | n.a. | T 8 |
| F 9 | 5 0 12 | 15°18'25 | 0♋21 | 28°14 | 1°25 | 11°48 | 27°44 | 9°32 | 5°58 | 19°38 | 16°30 | 13°32 | 13°35 | 20°36 | n.a. | F 9 |
| S 10 | 5 4 9 | 16°19'38 | 14°19 | 28° 0 | 2°40 | 12°36 | 27°56 | 9°30 | 5°57 | 19°37 | 16°29 | 13°32 | 13°32 | 20°42 | n.a. | S 10 |
| S 11 | 5 8 5 | 17°20'51 | 27°54 | 27°D54 | 3°56 | 13°23 | 28° 9 | 9°28 | 5°56 | 19°36 | 16°28 | 13°31 | 13°29 | 20°49 | n.a. | S 11 |
| M12 | 5 12 2 | 18°22'03 | 11♌ 4 | 27°58 | 5°11 | 14°10 | 28°21 | 9°26 | 5°54 | 19°34 | 16°26 | 13°31 | 13°26 | 20°56 | n.a. | M12 |
| T 13 | 5 15 58 | 19°23'15 | 23°52 | 28°10 | 6°26 | 14°58 | 28°34 | 9°24 | 5°53 | 19°33 | 16°25 | 13°30 | 13°22 | 21° 2 | n.a. | T 13 |
| W14 | 5 19 55 | 20°24'27 | 6♍19 | 28°30 | 7°42 | 15°45 | 28°47 | 9°22 | 5°51 | 19°31 | 16°24 | 13°30 | 13°19 | 21° 9 | n.a. | W14 |
| T 15 | 5 23 51 | 21°25'39 | 18°30 | 28°56 | 8°57 | 16°32 | 29° 0 | 9°19 | 5°49 | 19°30 | 16°23 | 13°D29 | 13°16 | 21°16 | n.a. | T 15 |
| F 16 | 5 27 48 | 22°26'51 | 0♎30 | 29°28 | 10°12 | 17°20 | 29°13 | 9°17 | 5°48 | 19°29 | 16°21 | 13°29 | 13°13 | 21°22 | n.a. | F 16 |
| S 17 | 5 31 45 | 23°28'02 | 12°22 | 0♐ 6 | 11°28 | 18° 7 | 29°26 | 9°14 | 5°46 | 19°27 | 16°20 | 13°30 | 13°10 | 21°29 | n.a. | S 17 |
| S 18 | 5 35 41 | 24°29'13 | 24°12 | 0°49 | 12°43 | 18°54 | 29°39 | 9°12 | 5°44 | 19°26 | 16°19 | 13°31 | 13° 6 | 21°36 | n.a. | S 18 |
| M19 | 5 39 38 | 25°30'23 | 6♏ 4 | 1°37 | 13°58 | 19°41 | 29°52 | 9° 9 | 5°43 | 19°24 | 16°18 | 13°32 | 13° 3 | 21°42 | n.a. | M19 |
| T 20 | 5 43 34 | 26°31'33 | 18° 2 | 2°28 | 15°14 | 20°29 | 0♒ 5 | 9° 6 | 5°41 | 19°23 | 16°16 | 13°33 | 13° 0 | 21°49 | n.a. | T 20 |
| W21 | 5 47 31 | 27°32'43 | 0♐10 | 3°24 | 16°29 | 21°16 | 0°18 | 9° 3 | 5°39 | 19°21 | 16°15 | 13°34 | 12°57 | 21°56 | n.a. | W21 |
| T 22 | 5 51 27 | 28°33'52 | 12°30 | 4°22 | 17°44 | 22° 3 | 0°32 | 9° 0 | 5°37 | 19°19 | 16°14 | 13°R35 | 12°54 | 22° 3 | n.a. | T 22 |
| F 23 | 5 55 24 | 29°35'00 | 25° 4 | 5°24 | 19° 0 | 22°51 | 0°45 | 8°57 | 5°35 | 19°18 | 16°13 | 13°35 | 12°51 | 22° 9 | n.a. | F 23 |
| S 24 | 5 59 20 | 0♑36'08 | 7♑53 | 6°28 | 20°15 | 23°38 | 0°59 | 8°54 | 5°33 | 19°16 | 16°11 | 13°33 | 12°47 | 22°16 | n.a. | S 24 |
| S 25 | 6 3 17 | 1°37'14 | 20°57 | 7°35 | 21°30 | 24°25 | 1°12 | 8°51 | 5°31 | 19°15 | 16°10 | 13°31 | 12°44 | 22°23 | n.a. | S 25 |
| M26 | 6 7 14 | 2°38'20 | 4♒15 | 8°44 | 22°46 | 25°13 | 1°26 | 8°47 | 5°29 | 19°13 | 16° 9 | 13°28 | 12°41 | 22°29 | n.a. | M26 |
| T 27 | 6 11 10 | 3°39'24 | 17°45 | 9°55 | 24° 1 | 26° 0 | 1°39 | 8°44 | 5°27 | 19°12 | 16° 8 | 13°25 | 12°38 | 22°36 | n.a. | T 27 |
| W28 | 6 15 7 | 4°40'27 | 1♓28 | 11° 7 | 25°16 | 26°47 | 1°53 | 8°41 | 5°25 | 19°10 | 16° 7 | 13°23 | 12°35 | 22°43 | n.a. | W28 |
| T 29 | 6 19 3 | 5°41'29 | 15°20 | 12°22 | 26°32 | 27°34 | 2° 6 | 8°37 | 5°23 | 19° 8 | 16° 5 | 13°20 | 12°32 | 22°49 | n.a. | T 29 |
| F 30 | 6 23 0 | 6°42'29 | 29°21 | 13°38 | 27°47 | 28°22 | 2°20 | 8°33 | 5°21 | 19° 7 | 16° 4 | 13°19 | 12°28 | 22°56 | n.a. | F 30 |
| S 31 | 6 26 56 | 7♑43'28 | 13♈28 | 14♐55 | 29♐ 2 | 29♑ 9 | 2♒34 | 8♌30 | 5♌18 | 19♋ 5 | 16♊ 3 | 13°D19 | 12♐25 | 23♎ 3 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| T 1 | 21s44 | 5s 5 | 5n14 | 19s12 | 2n20 | 17s36 | 0n43 | 24s46 | 1s11 | 22s 2 | 0s54 | 19n16 | 1n18 | 19n37 | 0n41 | 22n12 | 0s 2 | 21n 3 | 1s59 | 22s41 | 22s44 | 11s39 | | | n.a. |
| F 2 | 21 54 | 0n16 | 5 16 | 18 43 | 2 35 | 17 58 | 0 41 | 24 44 | 1 11 | 22 0 | 0 54 | 19 16 | 1 18 | 19 37 | 0 41 | 22 12 | 0 1 | 21 3 | 1 59 | 22 41 | 22 43 | 11 41 | | | n.a. |
| S 3 | 22 4 | 5 42 | 5 0 | 18 17 | 2 47 | 18 19 | 0 39 | 24 41 | 1 11 | 21 58 | 0 54 | 19 17 | 1 18 | 19 37 | 0 41 | 22 12 | 0 1 | 21 3 | 1 59 | 22 41 | 22 43 | 11 43 | | | n.a. |
| S 4 | 22 13 | 10 56 | 4 24 | 17 54 | 2 56 | 18 40 | 0 37 | 24 39 | 1 11 | 21 55 | 0 54 | 19 17 | 1 18 | 19 38 | 0 41 | 22 12 | 0 1 | 21 3 | 1 59 | 22 40 | 22 43 | 11 45 | | | n.a. |
| M 5 | 22 22 | 15 35 | 3 31 | 17 34 | 3 4 | 19 0 | 0 34 | 24 35 | 1 11 | 21 53 | 0 54 | 19 18 | 1 19 | 19 38 | 0 41 | 22 13 | 0 1 | 21 2 | 1 59 | 22 40 | 22 42 | 11 47 | | | n.a. |
| T 6 | 22 30 | 19 19 | 2 23 | 17 17 | 3 9 | 19 20 | 0 32 | 24 32 | 1 11 | 21 51 | 0 54 | 19 18 | 1 19 | 19 38 | 0 41 | 22 13 | 0 1 | 21 2 | 1 59 | 22 40 | 22 42 | 11 49 | | | n.a. |
| W 7 | 22 38 | 21 46 | 1 7 | 17 5 | 3 11 | 19 39 | 0 29 | 24 29 | 1 11 | 21 48 | 0 54 | 19 19 | 1 19 | 19 39 | 0 41 | 22 13 | 0 1 | 21 2 | 1 59 | 22 40 | 22 42 | 11 52 | | | n.a. |
| T 8 | 22 46 | 22 44 | 0s14 | 16 57 | 3 12 | 19 58 | 0 27 | 24 25 | 1 11 | 21 46 | 0 54 | 19 20 | 1 19 | 19 39 | 0 42 | 22 13 | 0 1 | 21 2 | 1 59 | 22 40 | 22 41 | 11 54 | | | n.a. |
| F 9 | 22 53 | 22 10 | 1 32 | 16 52 | 3 11 | 20 16 | 0 25 | 24 21 | 1 11 | 21 43 | 0 54 | 19 20 | 1 20 | 19 39 | 0 42 | 22 13 | 0 1 | 21 2 | 1 59 | 22 40 | 22 41 | 11 56 | | | n.a. |
| S 10 | 22 59 | 20 13 | 2 43 | 16 52 | 3 9 | 20 34 | 0 22 | 24 16 | 1 11 | 21 41 | 0 54 | 19 21 | 1 20 | 19 40 | 0 42 | 22 14 | 0 1 | 21 2 | 1 59 | 22 40 | 22 40 | 11 58 | | | n.a. |
| S 11 | 23 5 | 17 11 | 3 42 | 16 54 | 3 5 | 20 51 | 0 20 | 24 11 | 1 11 | 21 38 | 0 54 | 19 22 | 1 20 | 19 40 | 0 42 | 22 14 | 0 1 | 21 2 | 1 59 | 22 40 | 22 40 | 12 0 | | | n.a. |
| M12 | 23 11 | 13 21 | 4 28 | 17 0 | 3 0 | 21 7 | 0 17 | 24 6 | 1 10 | 21 35 | 0 54 | 19 22 | 1 20 | 19 40 | 0 42 | 22 14 | 0 1 | 21 2 | 1 59 | 22 40 | 22 40 | 12 2 | | | n.a. |
| T 13 | 23 16 | 9 1 | 4 59 | 17 8 | 2 54 | 21 23 | 0 15 | 24 1 | 1 10 | 21 33 | 0 54 | 19 23 | 1 20 | 19 41 | 0 42 | 22 14 | 0 1 | 21 2 | 1 59 | 22 40 | 22 39 | 12 4 | | | n.a. |
| W14 | 23 21 | 4 25 | 5 15 | 17 19 | 2 47 | 21 38 | 0 12 | 23 55 | 1 10 | 21 30 | 0 54 | 19 24 | 1 21 | 19 41 | 0 42 | 22 14 | 0 1 | 21 2 | 1 59 | 22 40 | 22 39 | 12 6 | | | n.a. |
| T 15 | 23 25 | 0s15 | 5 16 | 17 32 | 2 40 | 21 52 | 0 10 | 23 50 | 1 10 | 21 27 | 0 54 | 19 25 | 1 21 | 19 42 | 0 42 | 22 15 | 0 1 | 21 2 | 1 59 | 22 40 | 22 38 | 12 8 | | | n.a. |
| F 16 | 23 29 | 4 50 | 5 4 | 17 47 | 2 32 | 22 6 | 0 7 | 23 43 | 1 10 | 21 25 | 0 54 | 19 26 | 1 21 | 19 42 | 0 42 | 22 15 | 0 1 | 21 2 | 1 58 | 22 40 | 22 38 | 12 10 | | | n.a. |
| S 17 | 23 32 | 9 12 | 4 38 | 18 3 | 2 24 | 22 19 | 0 5 | 23 37 | 1 10 | 21 22 | 0 54 | 19 27 | 1 21 | 19 43 | 0 42 | 22 15 | 0 1 | 21 2 | 1 58 | 22 40 | 22 38 | 12 12 | | | n.a. |
| S 18 | 23 35 | 13 12 | 4 1 | 18 20 | 2 15 | 22 32 | 0 3 | 23 30 | 1 10 | 21 19 | 0 53 | 19 27 | 1 21 | 19 43 | 0 42 | 22 15 | 0 1 | 21 2 | 1 58 | 22 40 | 22 37 | 12 14 | | | n.a. |
| M19 | 23 37 | 16 43 | 3 13 | 18 39 | 2 7 | 22 44 | 0 0 | 23 23 | 1 10 | 21 16 | 0 53 | 19 28 | 1 22 | 19 44 | 0 42 | 22 16 | 0 1 | 21 2 | 1 58 | 22 40 | 22 37 | 12 16 | | | n.a. |
| T 20 | 23 39 | 19 35 | 2 17 | 18 58 | 1 58 | 22 55 | 0s 2 | 23 16 | 1 10 | 21 13 | 0 53 | 19 29 | 1 22 | 19 44 | 0 42 | 22 16 | 0 1 | 21 1 | 1 58 | 22 41 | 22 36 | 12 18 | | | n.a. |
| W21 | 23 41 | 21 36 | 1 14 | 19 17 | 1 49 | 23 5 | 0 5 | 23 9 | 1 9 | 21 11 | 0 53 | 19 30 | 1 22 | 19 45 | 0 42 | 22 16 | 0 1 | 21 1 | 1 58 | 22 41 | 22 36 | 12 20 | | | n.a. |
| T 22 | 23 42 | 22 38 | 0 6 | 19 37 | 1 39 | 23 15 | 0 7 | 23 1 | 1 9 | 21 8 | 0 53 | 19 31 | 1 22 | 19 45 | 0 42 | 22 16 | 0 1 | 21 1 | 1 58 | 22 41 | 22 36 | 12 22 | | | n.a. |
| F 23 | 23 42 | 22 33 | 1n 3 | 19 57 | 1 30 | 23 24 | 0 10 | 22 53 | 1 9 | 21 5 | 0 53 | 19 32 | 1 22 | 19 46 | 0 42 | 22 16 | 0 1 | 21 1 | 1 58 | 22 41 | 22 35 | 12 24 | | | n.a. |
| S 24 | 23 42 | 21 18 | 2 10 | 20 18 | 1 21 | 23 32 | 0 12 | 22 44 | 1 9 | 21 2 | 0 53 | 19 33 | 1 23 | 19 46 | 0 42 | 22 17 | 0 1 | 21 1 | 1 58 | 22 41 | 22 35 | 12 26 | | | n.a. |
| S 25 | 23 41 | 18 53 | 3 12 | 20 38 | 1 12 | 23 40 | 0 14 | 22 36 | 1 9 | 20 59 | 0 53 | 19 34 | 1 23 | 19 47 | 0 42 | 22 17 | 0 1 | 21 1 | 1 58 | 22 40 | 22 34 | 12 28 | | | n.a. |
| M26 | 23 40 | 15 27 | 4 4 | 20 58 | 1 3 | 23 47 | 0 17 | 22 27 | 1 9 | 20 56 | 0 53 | 19 36 | 1 23 | 19 47 | 0 42 | 22 17 | 0 1 | 21 1 | 1 58 | 22 40 | 22 34 | 12 30 | | | n.a. |
| T 27 | 23 39 | 11 10 | 4 44 | 21 17 | 0 54 | 23 53 | 0 19 | 22 18 | 1 9 | 20 53 | 0 53 | 19 37 | 1 23 | 19 48 | 0 42 | 22 17 | 0 1 | 21 1 | 1 58 | 22 40 | 22 34 | 12 32 | | | n.a. |
| W28 | 23 37 | 6 17 | 5 8 | 21 37 | 0 45 | 23 58 | 0 21 | 22 9 | 1 8 | 20 50 | 0 54 | 19 38 | 1 23 | 19 48 | 0 42 | 22 18 | 0 1 | 21 1 | 1 58 | 22 39 | 22 33 | 12 35 | | | n.a. |
| T 29 | 23 35 | 1 1 | 5 15 | 21 56 | 0 36 | 24 3 | 0 24 | 21 59 | 1 8 | 20 46 | 0 54 | 19 39 | 1 24 | 19 49 | 0 42 | 22 18 | 0 1 | 21 1 | 1 58 | 22 39 | 22 33 | 12 37 | | | n.a. |
| F 30 | 23 32 | 4n21 | 5 3 | 22 14 | 0 28 | 24 7 | 0 26 | 21 49 | 1 8 | 20 43 | 0 54 | 19 40 | 1 24 | 19 49 | 0 42 | 22 18 | 0 1 | 21 1 | 1 57 | 22 39 | 22 32 | 12 39 | | | n.a. |
| S 31 | 23s28 | 9n33 | 4n32 | 22s31 | 0n19 | 24s10 | 0s28 | 21s39 | 1s 8 | 20s40 | 0s54 | 19n41 | 1n24 | 19n50 | 0n42 | 22n18 | 0s 1 | 21n 1 | 1s57 | 22s39 | 22s32 | 12s41 | | | n.a. |

Julian Day Number = 1701303.5, Delta T = 03h05m26s
Ecliptic obliquity = 23°42'03, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°49'27, Lahiri = - 4°42'26 Julian Calendar 1 Dec. 56 BCE == Greg. Calendar 29 Nov. 056 BCE

The year -55 astronomical counting style corresponds to year 056 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 55 BCE
# geocentric

## JANUARY 55 BCE (-54) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 30 53 | 8♑44'26 | 27♈41 | 16♐14 | 0♑17 | 29♑56 | 2♒48 | 8°R26 | 5°R16 | 19°R 3 | 16°R 2 | 13♐20 | 12♐22 | 23♎ 9 | n.a. | S 1 |
| M 2 | 6 34 49 | 9°45'22 | 11♉56 | 17°34 | 1°32 | 0♒43 | 3° 2 | 8♌22 | 5♌14 | 19♋ 2 | 16♊ 1 | 13°21 | 12°19 | 23°16 | n.a. | M 2 |
| T 3 | 6 38 46 | 10°46'17 | 26°12 | 18°55 | 2°48 | 1°30 | 3°15 | 8°18 | 5°12 | 19° 0 | 16° 0 | 13°23 | 12°16 | 23°23 | n.a. | T 3 |
| W 4 | 6 42 43 | 11°47'11 | 10♊26 | 20°18 | 4° 3 | 2°18 | 3°29 | 8°14 | 5° 9 | 18°58 | 15°59 | 13°R24 | 12°12 | 23°30 | n.a. | W 4 |
| T 5 | 6 46 39 | 12°48'03 | 24°34 | 21°41 | 5°18 | 3° 5 | 3°43 | 8°10 | 5° 7 | 18°57 | 15°57 | 13°23 | 12° 9 | 23°36 | n.a. | T 5 |
| F 6 | 6 50 36 | 13°48'54 | 8♋31 | 23° 5 | 6°33 | 3°52 | 3°57 | 8° 6 | 5° 5 | 18°55 | 15°56 | 13°21 | 12° 6 | 23°43 | n.a. | F 6 |
| S 7 | 6 54 32 | 14°49'43 | 22°14 | 24°31 | 7°48 | 4°39 | 4°11 | 8° 2 | 5° 2 | 18°53 | 15°55 | 13°18 | 12° 3 | 23°50 | n.a. | S 7 |
| S 8 | 6 58 29 | 15°50'31 | 5♌40 | 25°57 | 9° 4 | 5°26 | 4°26 | 7°57 | 5° 0 | 18°52 | 15°54 | 13°13 | 12° 0 | 23°56 | n.a. | S 8 |
| M 9 | 7 2 25 | 16°51'18 | 18°48 | 27°25 | 10°19 | 6°13 | 4°40 | 7°53 | 4°57 | 18°50 | 15°53 | 13° 7 | 11°57 | 24° 3 | n.a. | M 9 |
| T 10 | 7 6 22 | 17°52'03 | 1♍35 | 28°53 | 11°34 | 7° 0 | 4°54 | 7°49 | 4°55 | 18°48 | 15°52 | 13° 1 | 11°53 | 24°10 | n.a. | T 10 |
| W11 | 7 10 18 | 18°52'47 | 14° 5 | 0♑22 | 12°49 | 7°47 | 5° 8 | 7°44 | 4°52 | 18°47 | 15°51 | 12°56 | 11°50 | 24°16 | n.a. | W11 |
| T 12 | 7 14 15 | 19°53'30 | 26°18 | 1°52 | 14° 4 | 8°34 | 5°22 | 7°40 | 4°50 | 18°45 | 15°50 | 12°51 | 11°47 | 24°23 | n.a. | T 12 |
| F 13 | 7 18 12 | 20°54'12 | 8♎19 | 3°23 | 15°19 | 9°21 | 5°36 | 7°35 | 4°47 | 18°43 | 15°49 | 12°49 | 11°44 | 24°30 | n.a. | F 13 |
| S 14 | 7 22 8 | 21°54'52 | 20°12 | 4°55 | 16°34 | 10° 8 | 5°51 | 7°31 | 4°45 | 18°42 | 15°48 | 12°D48 | 11°41 | 24°36 | n.a. | S 14 |
| S 15 | 7 26 5 | 22°55'31 | 2♏ 3 | 6°28 | 17°49 | 10°55 | 6° 5 | 7°26 | 4°42 | 18°40 | 15°47 | 12°48 | 11°38 | 24°43 | n.a. | S 15 |
| M16 | 7 30 1 | 23°56'09 | 13°55 | 8° 1 | 19° 4 | 11°42 | 6°19 | 7°22 | 4°40 | 18°38 | 15°46 | 12°49 | 11°34 | 24°50 | n.a. | M16 |
| T 17 | 7 33 58 | 24°56'45 | 25°54 | 9°36 | 20°20 | 12°29 | 6°33 | 7°17 | 4°37 | 18°37 | 15°45 | 12°51 | 11°31 | 24°57 | n.a. | T 17 |
| W18 | 7 37 54 | 25°57'21 | 8♐ 5 | 11°11 | 21°35 | 13°16 | 6°48 | 7°13 | 4°35 | 18°35 | 15°44 | 12°R52 | 11°28 | 25° 3 | n.a. | W18 |
| T 19 | 7 41 51 | 26°57'54 | 20°33 | 12°47 | 22°50 | 14° 3 | 7° 2 | 7° 8 | 4°32 | 18°33 | 15°43 | 12°52 | 11°25 | 25°10 | n.a. | T 19 |
| F 20 | 7 45 47 | 27°58'27 | 3♑19 | 14°24 | 24° 5 | 14°50 | 7°16 | 7° 3 | 4°29 | 18°32 | 15°42 | 12°50 | 11°22 | 25°17 | n.a. | F 20 |
| S 21 | 7 49 44 | 28°58'57 | 16°25 | 16° 2 | 25°20 | 15°36 | 7°31 | 6°58 | 4°27 | 18°30 | 15°41 | 12°46 | 11°18 | 25°23 | n.a. | S 21 |
| S 22 | 7 53 41 | 29°59'26 | 29°52 | 17°41 | 26°35 | 16°23 | 7°45 | 6°54 | 4°24 | 18°28 | 15°41 | 12°39 | 11°15 | 25°30 | n.a. | S 22 |
| M23 | 7 57 37 | 0♒59'54 | 13♒37 | 19°21 | 27°50 | 17°10 | 8° 0 | 6°49 | 4°22 | 18°27 | 15°40 | 12°31 | 11°12 | 25°37 | n.a. | M23 |
| T 24 | 8 1 34 | 2° 0'19 | 27°36 | 21° 2 | 29° 5 | 17°57 | 8°14 | 6°44 | 4°19 | 18°25 | 15°39 | 12°23 | 11° 9 | 25°43 | n.a. | T 24 |
| W25 | 8 5 30 | 3° 0'42 | 11♓46 | 22°43 | 0♒20 | 18°43 | 8°29 | 6°39 | 4°16 | 18°23 | 15°38 | 12°15 | 11° 6 | 25°50 | n.a. | W25 |
| T 26 | 8 9 27 | 4° 1'04 | 26° 1 | 24°26 | 1°35 | 19°30 | 8°43 | 6°34 | 4°14 | 18°22 | 15°37 | 12° 8 | 11° 3 | 25°57 | n.a. | T 26 |
| F 27 | 8 13 23 | 5° 1'23 | 10♈17 | 26°10 | 2°50 | 20°17 | 8°57 | 6°30 | 4°11 | 18°20 | 15°37 | 12° 3 | 10°59 | 26° 3 | n.a. | F 27 |
| S 28 | 8 17 20 | 6° 1'40 | 24°30 | 27°54 | 4° 5 | 21° 3 | 9°12 | 6°25 | 4° 9 | 18°18 | 15°36 | 12° 0 | 10°56 | 26°10 | n.a. | S 28 |
| S 29 | 8 21 16 | 7° 1'55 | 8♉39 | 29°40 | 5°19 | 21°50 | 9°26 | 6°20 | 4° 6 | 18°17 | 15°35 | 12°D 0 | 10°53 | 26°17 | n.a. | S 29 |
| M30 | 8 25 13 | 8° 2'08 | 22°41 | 1♒27 | 6°34 | 22°36 | 9°41 | 6°15 | 4° 3 | 18°15 | 15°34 | 12° 0 | 10°50 | 26°23 | n.a. | M30 |
| T 31 | 8 29 10 | 9♒ 2'19 | 6♊36 | 3♒14 | 7♒49 | 23♒23 | 9♒55 | 6♌10 | 4♌ 1 | 18♋14 | 15♊34 | 12°R 1 | 10♐47 | 26♎30 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| S 1 | 23 s25 | 14n15 | 3n45 | 22 s48 | 0n11 | 24 s13 | 0 s31 | 21 s29 | 1 s 8 | 20 s37 | 0 s54 | 19n42 | 1n24 | 19n50 | 0n42 | 22n19 | 0 s 1 | 21n 1 | 1 s57 | 22 s39 | 22 s31 | 12 s43 | | | n.a. |
| M 2 | 23 20 | 18 11 | 2 44 | 23 4 | 0 2 | 24 14 | 0 33 | 21 19 | 1 7 | 20 34 | 0 54 | 19 44 | 1 24 | 19 51 | 0 42 | 22 19 | 0 1 | 21 1 | 1 57 | 22 39 | 22 31 | 12 45 | | | n.a. |
| T 3 | 23 15 | 21 1 | 1 33 | 23 19 | 0 s 6 | 24 15 | 0 35 | 21 8 | 1 7 | 20 31 | 0 54 | 19 45 | 1 24 | 19 52 | 0 42 | 22 19 | 0 1 | 21 1 | 1 57 | 22 39 | 22 31 | 12 46 | | | n.a. |
| W 4 | 23 10 | 22 31 | 0 16 | 23 34 | 0 13 | 24 15 | 0 37 | 20 57 | 1 7 | 20 27 | 0 54 | 19 46 | 1 25 | 19 52 | 0 42 | 22 19 | 0 1 | 21 1 | 1 57 | 22 39 | 22 30 | 12 48 | | | n.a. |
| T 5 | 23 5 | 22 34 | 1 s 1 | 23 47 | 0 21 | 24 15 | 0 39 | 20 46 | 1 7 | 20 24 | 0 54 | 19 47 | 1 25 | 19 53 | 0 42 | 22 20 | 0 1 | 21 1 | 1 57 | 22 39 | 22 30 | 12 50 | | | n.a. |
| F 6 | 22 59 | 21 12 | 2 13 | 23 59 | 0 28 | 24 14 | 0 41 | 20 34 | 1 6 | 20 21 | 0 54 | 19 48 | 1 25 | 19 53 | 0 42 | 22 20 | 0 1 | 21 1 | 1 57 | 22 39 | 22 29 | 12 52 | | | n.a. |
| S 7 | 22 52 | 18 37 | 3 17 | 24 11 | 0 36 | 24 11 | 0 43 | 20 23 | 1 6 | 20 17 | 0 54 | 19 50 | 1 25 | 19 54 | 0 42 | 22 20 | 0 1 | 21 1 | 1 57 | 22 39 | 22 29 | 12 54 | | | n.a. |
| S 8 | 22 45 | 15 4 | 4 8 | 24 21 | 0 43 | 24 9 | 0 45 | 20 11 | 1 6 | 20 14 | 0 54 | 19 51 | 1 25 | 19 55 | 0 42 | 22 20 | 0 1 | 21 1 | 1 57 | 22 38 | 22 28 | 12 56 | | | n.a. |
| M 9 | 22 37 | 10 51 | 4 44 | 24 30 | 0 49 | 24 5 | 0 47 | 19 59 | 1 6 | 20 11 | 0 54 | 19 52 | 1 25 | 19 55 | 0 42 | 22 21 | 0 1 | 21 1 | 1 57 | 22 37 | 22 28 | 12 58 | | | n.a. |
| T 10 | 22 30 | 6 16 | 5 5 | 24 38 | 0 56 | 24 1 | 0 49 | 19 47 | 1 5 | 20 7 | 0 54 | 19 54 | 1 26 | 19 56 | 0 42 | 22 21 | 0 1 | 21 1 | 1 57 | 22 36 | 22 28 | 13 0 | | | n.a. |
| W11 | 22 21 | 1 33 | 5 11 | 24 44 | 1 2 | 23 56 | 0 51 | 19 34 | 1 5 | 20 4 | 0 54 | 19 55 | 1 26 | 19 56 | 0 42 | 22 21 | 0 1 | 21 1 | 1 56 | 22 36 | 22 27 | 13 2 | | | n.a. |
| T 12 | 22 13 | 3 s 8 | 5 3 | 24 50 | 1 8 | 23 50 | 0 53 | 19 21 | 1 5 | 20 0 | 0 54 | 19 56 | 1 26 | 19 57 | 0 42 | 22 21 | 0 1 | 21 1 | 1 56 | 22 35 | 22 27 | 13 4 | | | n.a. |
| F 13 | 22 3 | 7 38 | 4 41 | 24 53 | 1 14 | 23 43 | 0 55 | 19 9 | 1 5 | 19 57 | 0 54 | 19 57 | 1 26 | 19 58 | 0 43 | 22 22 | 0 1 | 21 1 | 1 56 | 22 35 | 22 26 | 13 6 | | | n.a. |
| S 14 | 21 54 | 11 48 | 4 8 | 24 56 | 1 20 | 23 36 | 0 57 | 18 56 | 1 4 | 19 53 | 0 54 | 19 59 | 1 26 | 19 58 | 0 43 | 22 22 | 0 1 | 21 1 | 1 56 | 22 35 | 22 26 | 13 8 | | | n.a. |
| S 15 | 21 44 | 15 29 | 3 24 | 24 57 | 1 25 | 23 28 | 0 58 | 18 42 | 1 4 | 19 50 | 0 54 | 20 0 | 1 26 | 19 59 | 0 43 | 22 22 | 0 1 | 21 0 | 1 56 | 22 35 | 22 25 | 13 10 | | | n.a. |
| M16 | 21 33 | 18 35 | 2 31 | 24 57 | 1 30 | 23 19 | 1 0 | 18 29 | 1 4 | 19 46 | 0 54 | 20 1 | 1 26 | 20 0 | 0 43 | 22 22 | 0 1 | 21 0 | 1 56 | 22 35 | 22 25 | 13 12 | | | n.a. |
| T 17 | 21 22 | 20 55 | 1 31 | 24 55 | 1 34 | 23 10 | 1 2 | 18 15 | 1 3 | 19 42 | 0 54 | 20 3 | 1 27 | 20 0 | 0 43 | 22 23 | 0 1 | 21 0 | 1 56 | 22 35 | 22 25 | 13 14 | | | n.a. |
| W18 | 21 11 | 22 19 | 0 26 | 24 52 | 1 39 | 23 0 | 1 3 | 18 1 | 1 3 | 19 39 | 0 54 | 20 4 | 1 27 | 20 1 | 0 43 | 22 23 | 0 1 | 21 0 | 1 56 | 22 35 | 22 24 | 13 16 | | | n.a. |
| T 19 | 21 0 | 22 40 | 0n41 | 24 47 | 1 43 | 22 49 | 1 5 | 17 48 | 1 3 | 19 35 | 0 54 | 20 5 | 1 27 | 20 2 | 0 43 | 22 23 | 0 1 | 21 0 | 1 56 | 22 35 | 22 24 | 13 18 | | | n.a. |
| F 20 | 20 48 | 21 51 | 1 48 | 24 41 | 1 47 | 22 37 | 1 6 | 17 33 | 1 2 | 19 32 | 0 54 | 20 7 | 1 27 | 20 2 | 0 43 | 22 23 | 0 1 | 21 0 | 1 56 | 22 35 | 22 23 | 13 20 | | | n.a. |
| S 21 | 20 35 | 19 51 | 2 51 | 24 33 | 1 50 | 22 25 | 1 8 | 17 19 | 1 2 | 19 28 | 0 54 | 20 8 | 1 27 | 20 3 | 0 43 | 22 24 | 0 1 | 21 0 | 1 56 | 22 35 | 22 23 | 13 22 | | | n.a. |
| S 22 | 20 22 | 16 43 | 3 46 | 24 23 | 1 53 | 22 12 | 1 9 | 17 5 | 1 2 | 19 24 | 0 54 | 20 9 | 1 27 | 20 3 | 0 43 | 22 24 | 0 1 | 21 0 | 1 55 | 22 34 | 22 22 | 13 24 | | | n.a. |
| M23 | 20 9 | 12 38 | 4 29 | 24 12 | 1 56 | 21 59 | 1 11 | 16 50 | 1 1 | 19 20 | 0 54 | 20 11 | 1 27 | 20 4 | 0 43 | 22 24 | 0 1 | 21 0 | 1 55 | 22 33 | 22 22 | 13 25 | | | n.a. |
| T 24 | 19 56 | 7 48 | 4 57 | 23 59 | 1 58 | 21 44 | 1 12 | 16 35 | 1 1 | 19 17 | 0 54 | 20 12 | 1 27 | 20 5 | 0 43 | 22 24 | 0 1 | 21 0 | 1 55 | 22 32 | 22 22 | 13 27 | | | n.a. |
| W25 | 19 42 | 2 30 | 5 7 | 23 44 | 2 0 | 21 29 | 1 13 | 16 20 | 1 1 | 19 13 | 0 54 | 20 13 | 1 27 | 20 5 | 0 43 | 22 25 | 0 1 | 21 0 | 1 55 | 22 30 | 22 21 | 13 29 | | | n.a. |
| T 26 | 19 28 | 2n57 | 4 58 | 23 27 | 2 1 | 21 14 | 1 14 | 16 5 | 1 0 | 19 9 | 0 54 | 20 15 | 1 28 | 20 6 | 0 43 | 22 25 | 0 1 | 21 0 | 1 55 | 22 30 | 22 21 | 13 31 | | | n.a. |
| F 27 | 19 13 | 8 15 | 4 31 | 23 9 | 2 3 | 20 58 | 1 15 | 15 50 | 1 0 | 19 5 | 0 55 | 20 16 | 1 28 | 20 7 | 0 43 | 22 25 | 0 1 | 21 0 | 1 55 | 22 29 | 22 20 | 13 33 | | | n.a. |
| S 28 | 18 58 | 13 6 | 3 47 | 22 49 | 2 3 | 20 41 | 1 17 | 15 34 | 0 59 | 19 2 | 0 55 | 20 17 | 1 28 | 20 7 | 0 43 | 22 25 | 0 1 | 21 1 | 1 55 | 22 29 | 22 20 | 13 35 | | | n.a. |
| S 29 | 18 43 | 17 12 | 2 49 | 22 27 | 2 4 | 20 24 | 1 18 | 15 19 | 0 59 | 18 58 | 0 55 | 20 19 | 1 28 | 20 8 | 0 43 | 22 25 | 0 1 | 21 1 | 1 55 | 22 28 | 22 19 | 13 37 | | | n.a. |
| M30 | 18 27 | 20 17 | 1 42 | 22 4 | 2 3 | 20 6 | 1 19 | 15 3 | 0 59 | 18 54 | 0 55 | 20 20 | 1 28 | 20 9 | 0 43 | 22 26 | 0 1 | 21 1 | 1 55 | 22 29 | 22 19 | 13 39 | | | n.a. |
| T 31 | 18 s12 | 22n 7 | 0n29 | 21 s38 | 2 s 3 | 19 s47 | 1 s19 | 14 s47 | 0 s58 | 18 s50 | 0 s55 | 20n21 | 1n28 | 20n 9 | 0n43 | 22n26 | 0 s 1 | 21n 1 | 1 s55 | 22 s29 | 22 s18 | 13 s41 | | | n.a. |

Julian Day Number = 1701334.5, Delta T = 03h05m25s
Ecliptic obliquity = 23°42'03, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°49'22, Lahiri = - 4°42'22 Julian Calendar 1 Jan. 55 BCE == Greg. Calendar 30 Dec. 056 BCE

The year -54 astronomical counting style corresponds to year 055 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 55 BCE
# geocentric

## FEBRUARY 55 BCE (-54) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 8 33 6 | 10♒ 2'27 | 20♊24 | 5♒ 3 | 9♒ 4 | 24♒ 9 | 10♒10 | 6°R 6 | 3°R58 | 18°R12 | 15°R33 | 12°R 1 | 10♐44 | 26♎37 | n.a. | W 1 |
| T 2 | 8 37 3 | 11° 2'33 | 4♋ 4 | 6°53 | 10°19 | 24°56 | 10°24 | 6♌ 1 | 3♌55 | 18♋11 | 15♊32 | 11♐59 | 10°40 | 26°43 | n.a. | T 2 |
| F 3 | 8 40 59 | 12° 2'38 | 17°35 | 8°44 | 11°34 | 25°42 | 10°39 | 5°56 | 3°53 | 18° 9 | 15°32 | 11°54 | 10°37 | 26°50 | n.a. | F 3 |
| S 4 | 8 44 56 | 13° 2'40 | 0♌54 | 10°35 | 12°49 | 26°28 | 10°53 | 5°51 | 3°50 | 18° 8 | 15°31 | 11°47 | 10°34 | 26°57 | n.a. | S 4 |
| S 5 | 8 48 52 | 14° 2'40 | 14° 2 | 12°28 | 14° 3 | 27°15 | 11° 8 | 5°46 | 3°48 | 18° 6 | 15°31 | 11°37 | 10°31 | 27° 4 | n.a. | S 5 |
| M 6 | 8 52 49 | 15° 2'37 | 26°56 | 14°22 | 15°18 | 28° 1 | 11°22 | 5°42 | 3°45 | 18° 5 | 15°30 | 11°25 | 10°28 | 27°10 | n.a. | M 6 |
| T 7 | 8 56 45 | 16° 2'33 | 9♍35 | 16°17 | 16°33 | 28°47 | 11°36 | 5°37 | 3°43 | 18° 3 | 15°29 | 11°14 | 10°24 | 27°17 | n.a. | T 7 |
| W 8 | 9 0 42 | 17° 2'27 | 21°59 | 18°13 | 17°48 | 29°33 | 11°51 | 5°32 | 3°40 | 18° 2 | 15°29 | 11° 2 | 10°21 | 27°24 | n.a. | W 8 |
| T 9 | 9 4 39 | 18° 2'19 | 4♎10 | 20° 9 | 19° 2 | 0♓19 | 12° 5 | 5°28 | 3°38 | 18° 0 | 15°28 | 10°53 | 10°18 | 27°30 | n.a. | T 9 |
| F 10 | 9 8 35 | 19° 2'10 | 16°10 | 22° 6 | 20°17 | 1° 6 | 12°20 | 5°23 | 3°35 | 17°59 | 15°28 | 10°45 | 10°15 | 27°37 | n.a. | F 10 |
| S 11 | 9 12 32 | 20° 1'58 | 28° 2 | 24° 4 | 21°32 | 1°52 | 12°34 | 5°19 | 3°33 | 17°58 | 15°28 | 10°40 | 10°12 | 27°44 | n.a. | S 11 |
| S 12 | 9 16 28 | 21° 1'45 | 9♏52 | 26° 2 | 22°47 | 2°38 | 12°49 | 5°14 | 3°30 | 17°56 | 15°27 | 10°38 | 10° 9 | 27°50 | n.a. | S 12 |
| M13 | 9 20 25 | 22° 1'29 | 21°43 | 28° 1 | 24° 1 | 3°24 | 13° 3 | 5° 9 | 3°28 | 17°55 | 15°27 | 10°D37 | 10° 5 | 27°57 | n.a. | M13 |
| T 14 | 9 24 21 | 23° 1'12 | 3♐41 | 29°59 | 25°16 | 4°10 | 13°17 | 5° 5 | 3°25 | 17°54 | 15°26 | 10°38 | 10° 2 | 28° 4 | n.a. | T 14 |
| W15 | 9 28 18 | 24° 0'54 | 15°52 | 1♑58 | 26°31 | 4°56 | 13°32 | 5° 1 | 3°23 | 17°52 | 15°26 | 10°R38 | 9°59 | 28°10 | n.a. | W15 |
| T 16 | 9 32 14 | 25° 0'33 | 28°21 | 3°57 | 27°45 | 5°41 | 13°46 | 4°56 | 3°20 | 17°51 | 15°26 | 10°36 | 9°56 | 28°17 | n.a. | T 16 |
| F 17 | 9 36 11 | 26° 0'11 | 11♑12 | 5°55 | 29° 0 | 6°27 | 14° 0 | 4°52 | 3°18 | 17°50 | 15°25 | 10°33 | 9°53 | 28°24 | n.a. | F 17 |
| S 18 | 9 40 8 | 26°59'46 | 24°27 | 7°51 | 0♓14 | 7°13 | 14°15 | 4°48 | 3°16 | 17°48 | 15°25 | 10°27 | 9°50 | 28°30 | n.a. | S 18 |
| S 19 | 9 44 4 | 27°59'20 | 8♒ 8 | 9°47 | 1°29 | 7°59 | 14°29 | 4°43 | 3°13 | 17°47 | 15°25 | 10°18 | 9°46 | 28°37 | n.a. | S 19 |
| M20 | 9 48 1 | 28°58'51 | 22°14 | 11°41 | 2°44 | 8°45 | 14°43 | 4°39 | 3°11 | 17°46 | 15°24 | 10° 7 | 9°43 | 28°44 | n.a. | M20 |
| T 21 | 9 51 57 | 29°58'21 | 6♓38 | 13°32 | 3°58 | 9°30 | 14°57 | 4°35 | 3° 9 | 17°45 | 15°24 | 9°55 | 9°40 | 28°50 | n.a. | T 21 |
| W22 | 9 55 54 | 0♓57'48 | 21°15 | 15°22 | 5°13 | 10°16 | 15°12 | 4°31 | 3° 7 | 17°44 | 15°24 | 9°44 | 9°37 | 28°57 | n.a. | W22 |
| T 23 | 9 59 50 | 1°57'13 | 5♈58 | 17° 8 | 6°27 | 11° 1 | 15°26 | 4°27 | 3° 4 | 17°43 | 15°24 | 9°34 | 9°34 | 29° 4 | n.a. | T 23 |
| F 24 | 10 3 47 | 2°56'36 | 20°38 | 18°51 | 7°42 | 11°47 | 15°40 | 4°23 | 3° 2 | 17°42 | 15°24 | 9°26 | 9°30 | 29°10 | n.a. | F 24 |
| S 25 | 10 7 43 | 3°55'56 | 5♉ 9 | 20°30 | 8°56 | 12°32 | 15°54 | 4°19 | 3° 0 | 17°40 | 15°24 | 9°22 | 9°27 | 29°17 | n.a. | S 25 |
| S 26 | 10 11 40 | 4°55'14 | 19°27 | 22° 4 | 10°11 | 13°18 | 16° 8 | 4°15 | 2°58 | 17°39 | 15°23 | 9°20 | 9°24 | 29°24 | n.a. | S 26 |
| M27 | 10 15 36 | 5°54'29 | 3♊30 | 23°34 | 11°25 | 14° 3 | 16°22 | 4°12 | 2°56 | 17°38 | 15°23 | 9°19 | 9°21 | 29°30 | n.a. | M27 |
| T 28 | 10 19 33 | 6♓53'42 | 17♊19 | 25♓ 0 | 12♓39 | 14♓49 | 16♒36 | 4♌ 8 | 2♌54 | 17♋37 | 15♊23 | 9♐19 | 9♐18 | 29♎37 | n.a. | T 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 17s55 | 22n36 | 0s45 | 21s11 | 2s 2 | 19s28 | 1s20 | 14s31 | 0s58 | 18s46 | 0s55 | 20n23 | 1n28 | 20n10 | 0n43 | 22n26 | 0s 1 | 21n 1 | 1s55 | 22s29 | 22s18 | 13s43 | | n.a. |
| T 2 | 17 39 | 21 43 | 1 55 | 20 41 | 2 0 | 19 9 | 1 21 | 14 15 | 0 58 | 18 42 | 0 55 | 20 24 | 1 28 | 20 10 | 0 43 | 22 26 | 0 1 | 21 1 | 1 54 | 22 28 | 22 17 | 13 44 | | n.a. |
| F 3 | 17 22 | 19 35 | 2 58 | 20 10 | 1 58 | 18 49 | 1 22 | 13 59 | 0 57 | 18 38 | 0 55 | 20 25 | 1 28 | 20 11 | 0 43 | 22 27 | 0 1 | 21 1 | 1 54 | 22 28 | 22 17 | 13 46 | | n.a. |
| S 4 | 17 5 | 16 26 | 3 50 | 19 37 | 1 55 | 18 28 | 1 22 | 13 43 | 0 57 | 18 34 | 0 55 | 20 26 | 1 28 | 20 12 | 0 43 | 22 27 | 0 1 | 21 1 | 1 54 | 22 27 | 22 17 | 13 48 | | n.a. |
| S 5 | 16 48 | 12 30 | 4 29 | 19 2 | 1 52 | 18 7 | 1 23 | 13 26 | 0 56 | 18 30 | 0 55 | 20 28 | 1 28 | 20 12 | 0 43 | 22 27 | 0 1 | 21 1 | 1 54 | 22 25 | 22 16 | 13 50 | | n.a. |
| M 6 | 16 30 | 8 5 | 4 53 | 18 26 | 1 49 | 17 45 | 1 24 | 13 10 | 0 56 | 18 26 | 0 55 | 20 29 | 1 28 | 20 13 | 0 43 | 22 27 | 0 1 | 21 1 | 1 54 | 22 24 | 22 16 | 13 52 | | n.a. |
| T 7 | 16 12 | 3 24 | 5 3 | 17 47 | 1 44 | 17 23 | 1 24 | 12 53 | 0 55 | 18 22 | 0 55 | 20 30 | 1 29 | 20 14 | 0 43 | 22 27 | 0 1 | 21 1 | 1 54 | 22 22 | 22 15 | 13 54 | | n.a. |
| W 8 | 15 54 | 1s20 | 4 57 | 17 7 | 1 39 | 17 0 | 1 24 | 12 37 | 0 55 | 18 18 | 0 55 | 20 31 | 1 29 | 20 14 | 0 43 | 22 28 | 0 1 | 21 1 | 1 54 | 22 21 | 22 15 | 13 56 | | n.a. |
| T 9 | 15 35 | 5 56 | 4 39 | 16 25 | 1 34 | 16 37 | 1 25 | 12 20 | 0 55 | 18 14 | 0 55 | 20 33 | 1 29 | 20 15 | 0 43 | 22 28 | 0 1 | 21 1 | 1 54 | 22 19 | 22 14 | 13 57 | | n.a. |
| F 10 | 15 17 | 10 14 | 4 8 | 15 41 | 1 28 | 16 14 | 1 25 | 12 3 | 0 54 | 18 10 | 0 56 | 20 34 | 1 29 | 20 15 | 0 43 | 22 28 | 0 1 | 21 1 | 1 54 | 22 18 | 22 14 | 13 59 | | n.a. |
| S 11 | 14 58 | 14 6 | 3 26 | 14 55 | 1 21 | 15 49 | 1 25 | 11 46 | 0 54 | 18 6 | 0 56 | 20 35 | 1 29 | 20 16 | 0 43 | 22 28 | 0 1 | 21 1 | 1 54 | 22 17 | 22 13 | 14 1 | | n.a. |
| S 12 | 14 39 | 17 23 | 2 36 | 14 8 | 1 14 | 15 25 | 1 25 | 11 29 | 0 53 | 18 2 | 0 56 | 20 36 | 1 29 | 20 16 | 0 43 | 22 28 | 0 1 | 21 1 | 1 53 | 22 17 | 22 13 | 14 3 | | n.a. |
| M13 | 14 19 | 19 59 | 1 39 | 13 20 | 1 6 | 15 0 | 1 26 | 11 11 | 0 53 | 17 58 | 0 56 | 20 37 | 1 29 | 20 17 | 0 43 | 22 29 | 0 1 | 21 1 | 1 53 | 22 17 | 22 12 | 14 5 | | n.a. |
| T 14 | 14 0 | 21 43 | 0 37 | 12 30 | 0 58 | 14 35 | 1 26 | 10 54 | 0 52 | 17 54 | 0 56 | 20 38 | 1 29 | 20 18 | 0 43 | 22 29 | 0 1 | 21 1 | 1 53 | 22 17 | 22 12 | 14 7 | | n.a. |
| W15 | 13 40 | 22 29 | 0n28 | 11 39 | 0 49 | 14 9 | 1 26 | 10 37 | 0 52 | 17 50 | 0 56 | 20 40 | 1 29 | 20 18 | 0 43 | 22 29 | 0 1 | 21 1 | 1 53 | 22 17 | 22 11 | 14 8 | | n.a. |
| T 16 | 13 20 | 22 9 | 1 33 | 10 46 | 0 39 | 13 43 | 1 25 | 10 19 | 0 51 | 17 46 | 0 56 | 20 41 | 1 29 | 20 19 | 0 43 | 22 29 | 0 1 | 21 1 | 1 53 | 22 17 | 22 11 | 14 10 | | n.a. |
| F 17 | 12 59 | 20 39 | 2 35 | 9 53 | 0 29 | 13 17 | 1 25 | 10 2 | 0 51 | 17 42 | 0 56 | 20 42 | 1 29 | 20 19 | 0 43 | 22 29 | 0 1 | 21 1 | 1 53 | 22 16 | 22 10 | 14 12 | | n.a. |
| S 18 | 12 39 | 18 1 | 3 30 | 9 0 | 0 18 | 12 50 | 1 25 | 9 44 | 0 51 | 17 38 | 0 56 | 20 43 | 1 29 | 20 20 | 0 43 | 22 30 | 0 1 | 21 1 | 1 53 | 22 15 | 22 10 | 14 14 | | n.a. |
| S 19 | 12 18 | 14 19 | 4 15 | 8 5 | 0 7 | 12 23 | 1 25 | 9 26 | 0 50 | 17 34 | 0 56 | 20 44 | 1 29 | 20 20 | 0 43 | 22 30 | 0 0 | 21 2 | 1 53 | 22 14 | 22 10 | 14 16 | | n.a. |
| M20 | 11 57 | 9 44 | 4 46 | 7 11 | 0n 5 | 11 55 | 1 24 | 9 9 | 0 50 | 17 30 | 0 56 | 20 45 | 1 29 | 20 21 | 0 43 | 22 30 | 0 0 | 21 2 | 1 53 | 22 13 | 22 9 | 14 18 | | n.a. |
| T 21 | 11 36 | 4 32 | 5 0 | 6 17 | 0 17 | 11 28 | 1 24 | 8 51 | 0 49 | 17 26 | 0 57 | 20 46 | 1 29 | 20 21 | 0 43 | 22 30 | 0 0 | 21 2 | 1 52 | 22 11 | 22 9 | 14 19 | | n.a. |
| W22 | 11 15 | 1n 0 | 4 55 | 5 23 | 0 29 | 11 0 | 1 23 | 8 33 | 0 49 | 17 21 | 0 57 | 20 47 | 1 29 | 20 22 | 0 43 | 22 30 | 0 0 | 21 2 | 1 52 | 22 9 | 22 8 | 14 21 | | n.a. |
| T 23 | 10 54 | 6 31 | 4 30 | 4 30 | 0 42 | 10 31 | 1 23 | 8 15 | 0 48 | 17 17 | 0 57 | 20 48 | 1 29 | 20 22 | 0 43 | 22 30 | 0 0 | 21 2 | 1 52 | 22 8 | 22 8 | 14 23 | | n.a. |
| F 24 | 10 32 | 11 38 | 3 47 | 3 38 | 0 54 | 10 3 | 1 22 | 7 57 | 0 48 | 17 13 | 0 57 | 20 49 | 1 29 | 20 23 | 0 43 | 22 31 | 0 0 | 21 2 | 1 52 | 22 6 | 22 7 | 14 25 | | n.a. |
| S 25 | 10 10 | 16 3 | 2 50 | 2 47 | 1 7 | 9 34 | 1 22 | 7 39 | 0 47 | 17 9 | 0 57 | 20 50 | 1 29 | 20 23 | 0 43 | 22 31 | 0 0 | 21 2 | 1 52 | 22 6 | 22 7 | 14 26 | | n.a. |
| S 26 | 9 49 | 19 26 | 1 43 | 1 57 | 1 20 | 9 5 | 1 21 | 7 21 | 0 47 | 17 5 | 0 57 | 20 51 | 1 29 | 20 24 | 0 42 | 22 31 | 0 0 | 21 2 | 1 52 | 22 5 | 22 6 | 14 28 | | n.a. |
| M27 | 9 27 | 21 35 | 0 31 | 1 10 | 1 32 | 8 36 | 1 20 | 7 3 | 0 46 | 17 1 | 0 57 | 20 52 | 1 29 | 20 24 | 0 42 | 22 31 | 0 0 | 21 2 | 1 52 | 22 5 | 22 6 | 14 30 | | n.a. |
| T 28 | 9s 5 | 22n23 | 0s42 | 0s25 | 1n45 | 8s 6 | 1s19 | 6s45 | 0s46 | 16s57 | 0s57 | 20n53 | 1n29 | 20n25 | 0n42 | 22n31 | 0s 0 | 21n 2 | 1s52 | 22s 5 | 22s 5 | 14s32 | | n.a. |

Julian Day Number = 1701365.5, Delta T = 03h05m24s
Ecliptic obliquity = 23°42'03, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°49'18, Lahiri = - 4°42'18 Julian Calendar 1 Feb. 55 BCE == Greg. Calendar 30 Jan. 055 BCE

The year -54 astronomical counting style corresponds to year 055 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 55 BCE
# geocentric

## MARCH 55 BCE (-54) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 10 23 30 | 7♓52'53 | 0♋52 | 26♓19 | 13♓54 | 15♓34 | 16♒50 | 4°R 4 | 2°R52 | 17°R36 | 15°R23 | 9°R18 | 9♐15 | 29♎44 | n.a. | W 1 |
| T 2 | 10 27 26 | 8°52'01 | 14°13 | 27°33 | 15° 8 | 16°19 | 17° 4 | 4♌ 1 | 2♌50 | 17♋36 | 15°D23 | 9♐15 | 9°11 | 29°51 | n.a. | T 2 |
| F 3 | 10 31 23 | 9°51'07 | 27°22 | 28°41 | 16°23 | 17° 4 | 17°18 | 3°57 | 2°48 | 17°35 | 15♊23 | 9° 9 | 9° 8 | 29°57 | n.a. | F 3 |
| S 4 | 10 35 19 | 10°50'10 | 10♌20 | 29°43 | 17°37 | 17°50 | 17°32 | 3°54 | 2°46 | 17°34 | 15°23 | 9° 0 | 9° 5 | 0♏ 4 | n.a. | S 4 |
| S 5 | 10 39 16 | 11°49'11 | 23° 6 | 0♈39 | 18°51 | 18°35 | 17°46 | 3°51 | 2°44 | 17°33 | 15°23 | 8°49 | 9° 2 | 0°11 | n.a. | S 5 |
| M 6 | 10 43 12 | 12°48'10 | 5♍42 | 1°27 | 20° 5 | 19°20 | 17°59 | 3°47 | 2°42 | 17°32 | 15°24 | 8°36 | 8°59 | 0°17 | n.a. | M 6 |
| T 7 | 10 47 9 | 13°47'07 | 18° 6 | 2°10 | 21°20 | 20° 5 | 18°13 | 3°44 | 2°40 | 17°31 | 15°24 | 8°22 | 8°55 | 0°24 | n.a. | T 7 |
| W 8 | 10 51 5 | 14°46'01 | 0♎20 | 2°45 | 22°34 | 20°50 | 18°27 | 3°41 | 2°39 | 17°30 | 15°24 | 8° 9 | 8°52 | 0°31 | n.a. | W 8 |
| T 9 | 10 55 2 | 15°44'54 | 12°25 | 3°13 | 23°48 | 21°35 | 18°41 | 3°38 | 2°37 | 17°30 | 15°24 | 7°57 | 8°49 | 0°37 | n.a. | T 9 |
| F 10 | 10 58 59 | 16°43'44 | 24°21 | 3°35 | 25° 2 | 22°19 | 18°54 | 3°35 | 2°35 | 17°29 | 15°24 | 7°48 | 8°46 | 0°44 | n.a. | F 10 |
| S 11 | 11 2 55 | 17°42'33 | 6♏11 | 3°50 | 26°17 | 23° 4 | 19° 8 | 3°33 | 2°34 | 17°28 | 15°24 | 7°41 | 8°43 | 0°51 | n.a. | S 11 |
| S 12 | 11 6 52 | 18°41'20 | 17°59 | 3°58 | 27°31 | 23°49 | 19°21 | 3°30 | 2°32 | 17°28 | 15°25 | 7°38 | 8°40 | 0°57 | n.a. | S 12 |
| M13 | 11 10 48 | 19°40'05 | 29°49 | 4°R 0 | 28°45 | 24°34 | 19°35 | 3°27 | 2°31 | 17°27 | 15°25 | 7°36 | 8°36 | 1° 4 | n.a. | M13 |
| T 14 | 11 14 45 | 20°38'48 | 11♐46 | 3°55 | 29°59 | 25°18 | 19°48 | 3°25 | 2°29 | 17°27 | 15°25 | 7°D36 | 8°33 | 1°11 | n.a. | T 14 |
| W15 | 11 18 41 | 21°37'29 | 23°55 | 3°44 | 1♈13 | 26° 3 | 20° 2 | 3°22 | 2°28 | 17°26 | 15°25 | 7°R36 | 8°30 | 1°17 | n.a. | W15 |
| T 16 | 11 22 38 | 22°36'09 | 6♑22 | 3°27 | 2°27 | 26°47 | 20°15 | 3°20 | 2°26 | 17°25 | 15°26 | 7°35 | 8°27 | 1°24 | n.a. | T 16 |
| F 17 | 11 26 34 | 23°34'47 | 19°11 | 3° 5 | 3°41 | 27°32 | 20°28 | 3°18 | 2°25 | 17°25 | 15°26 | 7°33 | 8°24 | 1°31 | n.a. | F 17 |
| S 18 | 11 30 31 | 24°33'23 | 2♒27 | 2°38 | 4°55 | 28°16 | 20°41 | 3°16 | 2°24 | 17°25 | 15°26 | 7°28 | 8°21 | 1°37 | n.a. | S 18 |
| S 19 | 11 34 28 | 25°31'57 | 16°12 | 2° 7 | 6° 9 | 29° 1 | 20°55 | 3°14 | 2°22 | 17°24 | 15°27 | 7°21 | 8°17 | 1°44 | n.a. | S 19 |
| M20 | 11 38 24 | 26°30'29 | 0♓24 | 1°32 | 7°23 | 29°45 | 21° 8 | 3°12 | 2°21 | 17°24 | 15°27 | 7°11 | 8°14 | 1°51 | n.a. | M20 |
| T 21 | 11 42 21 | 27°29'00 | 15° 1 | 0°54 | 8°37 | 0♈30 | 21°21 | 3°10 | 2°20 | 17°23 | 15°28 | 7° 1 | 8°11 | 1°57 | n.a. | T 21 |
| W22 | 11 46 17 | 28°27'28 | 29°56 | 0°14 | 9°51 | 1°14 | 21°34 | 3° 8 | 2°19 | 17°23 | 15°28 | 6°51 | 8° 8 | 2° 4 | n.a. | W22 |
| T 23 | 11 50 14 | 29°25'55 | 15♈ 0 | 29♓33 | 11° 5 | 1°58 | 21°47 | 3° 7 | 2°18 | 17°23 | 15°29 | 6°42 | 8° 5 | 2°11 | n.a. | T 23 |
| F 24 | 11 54 10 | 0♈24'19 | 0♉ 2 | 28°51 | 12°19 | 2°42 | 21°59 | 3° 5 | 2°17 | 17°22 | 15°29 | 6°35 | 8° 1 | 2°17 | n.a. | F 24 |
| S 25 | 11 58 7 | 1°22'42 | 14°54 | 28° 9 | 13°33 | 3°26 | 22°12 | 3° 4 | 2°16 | 17°22 | 15°30 | 6°31 | 7°58 | 2°24 | n.a. | S 25 |
| S 26 | 12 2 3 | 2°21'02 | 29°30 | 27°28 | 14°47 | 4°10 | 22°25 | 3° 2 | 2°15 | 17°22 | 15°30 | 6°29 | 7°55 | 2°31 | n.a. | S 26 |
| M27 | 12 6 0 | 3°19'20 | 13♊45 | 26°49 | 16° 1 | 4°54 | 22°38 | 3° 1 | 2°14 | 17°22 | 15°31 | 6°D29 | 7°52 | 2°37 | n.a. | M27 |
| T 28 | 12 9 56 | 4°17'37 | 27°38 | 26°12 | 17°14 | 5°38 | 22°50 | 3° 0 | 2°13 | 17°22 | 15°31 | 6°R30 | 7°49 | 2°44 | n.a. | T 28 |
| W29 | 12 13 53 | 5°15'50 | 11♋11 | 25°37 | 18°28 | 6°22 | 23° 3 | 2°59 | 2°12 | 17°22 | 15°32 | 6°30 | 7°46 | 2°51 | n.a. | W29 |
| T 30 | 12 17 50 | 6°14'02 | 24°25 | 25° 6 | 19°42 | 7° 6 | 23°15 | 2°58 | 2°12 | 17°22 | 15°33 | 6°28 | 7°42 | 2°57 | n.a. | T 30 |
| F 31 | 12 21 46 | 7♈12'12 | 7♌21 | 24♓39 | 20♈56 | 7♈50 | 23♒27 | 2♌57 | 2♌11 | 17♋21 | 15♊33 | 6♐24 | 7♐39 | 3♏ 4 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 8s42 | 21n51 | 1s51 | 0n18 | 1n57 | 7s36 | 1s18 | 6s27 | 0s45 | 16s52 | 0s57 | 20n53 | 1n29 | 20n25 | 0n42 | 22n31 | 0s 0 | 21n 2 | 1s52 | 22s 5 | 22s 5 | 14s34 | | n.a. |
| T 2 | 8 20 | 20 4 | 2 53 | 0 59 | 2 8 | 7 6 | 1 17 | 6 8 | 0 45 | 16 48 | 0 58 | 20 54 | 1 29 | 20 26 | 0 42 | 22 31 | 0 0 | 21 3 | 1 52 | 22 5 | 22 4 | 14 35 | | n.a. |
| F 3 | 7 58 | 17 14 | 3 45 | 1 36 | 2 20 | 6 36 | 1 16 | 5 50 | 0 44 | 16 44 | 0 58 | 20 55 | 1 29 | 20 26 | 0 42 | 22 32 | 0 0 | 21 3 | 1 51 | 22 4 | 22 4 | 14 37 | | n.a. |
| S 4 | 7 35 | 13 37 | 4 24 | 2 11 | 2 30 | 6 6 | 1 15 | 5 32 | 0 44 | 16 40 | 0 58 | 20 56 | 1 29 | 20 27 | 0 42 | 22 32 | 0 0 | 21 3 | 1 51 | 22 2 | 22 3 | 14 39 | | n.a. |
| S 5 | 7 12 | 9 25 | 4 49 | 2 42 | 2 40 | 5 36 | 1 14 | 5 13 | 0 43 | 16 36 | 0 58 | 20 57 | 1 29 | 20 27 | 0 42 | 22 32 | 0 0 | 21 3 | 1 51 | 22 1 | 22 3 | 14 41 | | n.a. |
| M 6 | 6 50 | 4 53 | 5 0 | 3 10 | 2 49 | 5 5 | 1 13 | 4 55 | 0 42 | 16 32 | 0 58 | 20 57 | 1 29 | 20 27 | 0 42 | 22 32 | 0 0 | 21 3 | 1 51 | 21 59 | 22 2 | 14 42 | | n.a. |
| T 7 | 6 27 | 0 13 | 4 56 | 3 34 | 2 57 | 4 34 | 1 12 | 4 37 | 0 42 | 16 27 | 0 58 | 20 58 | 1 29 | 20 28 | 0 42 | 22 32 | 0 0 | 21 3 | 1 51 | 21 56 | 22 2 | 14 44 | | n.a. |
| W 8 | 6 4 | 4s23 | 4 38 | 3 55 | 3 4 | 4 3 | 1 10 | 4 18 | 0 41 | 16 23 | 0 58 | 20 59 | 1 29 | 20 28 | 0 42 | 22 32 | 0 0 | 21 3 | 1 51 | 21 54 | 22 1 | 14 46 | | n.a. |
| T 9 | 5 41 | 8 45 | 4 8 | 4 12 | 3 10 | 3 33 | 1 9 | 4 0 | 0 41 | 16 19 | 0 58 | 20 59 | 1 29 | 20 29 | 0 42 | 22 32 | 0 0 | 21 3 | 1 51 | 21 52 | 22 1 | 14 48 | | n.a. |
| F 10 | 5 18 | 12 45 | 3 28 | 4 25 | 3 15 | 3 2 | 1 8 | 3 42 | 0 40 | 16 15 | 0 59 | 21 0 | 1 29 | 20 29 | 0 42 | 22 32 | 0 0 | 21 3 | 1 51 | 21 51 | 22 0 | 14 49 | | n.a. |
| S 11 | 4 55 | 16 13 | 2 38 | 4 34 | 3 19 | 2 30 | 1 6 | 3 23 | 0 40 | 16 11 | 0 59 | 21 1 | 1 29 | 20 29 | 0 42 | 22 32 | 0 0 | 21 4 | 1 51 | 21 50 | 22 0 | 14 51 | | n.a. |
| S 12 | 4 31 | 19 0 | 1 42 | 4 40 | 3 21 | 1 59 | 1 5 | 3 5 | 0 39 | 16 7 | 0 59 | 21 1 | 1 29 | 20 30 | 0 42 | 22 33 | 0 0 | 21 4 | 1 50 | 21 49 | 21 59 | 14 53 | | n.a. |
| M13 | 4 8 | 21 0 | 0 41 | 4 41 | 3 22 | 1 28 | 1 3 | 2 46 | 0 39 | 16 2 | 0 59 | 21 2 | 1 29 | 20 30 | 0 42 | 22 33 | 0 0 | 21 4 | 1 50 | 21 49 | 21 59 | 14 55 | | n.a. |
| T 14 | 3 45 | 22 5 | 0n22 | 4 39 | 3 22 | 0 57 | 1 1 | 2 28 | 0 38 | 15 58 | 0 59 | 21 3 | 1 29 | 20 30 | 0 42 | 22 33 | 0 0 | 21 4 | 1 50 | 21 49 | 21 58 | 14 56 | | n.a. |
| W15 | 3 21 | 22 8 | 1 26 | 4 33 | 3 20 | 0 25 | 1 0 | 2 10 | 0 38 | 15 54 | 0 59 | 21 3 | 1 29 | 20 31 | 0 42 | 22 33 | 0 0 | 21 4 | 1 50 | 21 49 | 21 58 | 14 58 | | n.a. |
| T 16 | 2 58 | 21 6 | 2 26 | 4 23 | 3 16 | 0n 6 | 0 58 | 1 51 | 0 37 | 15 50 | 0 59 | 21 4 | 1 29 | 20 31 | 0 42 | 22 33 | 0 0 | 21 4 | 1 50 | 21 49 | 21 57 | 15 0 | | n.a. |
| F 17 | 2 35 | 18 59 | 3 22 | 4 10 | 3 12 | 0 37 | 0 56 | 1 33 | 0 36 | 15 46 | 1 0 | 21 4 | 1 29 | 20 31 | 0 42 | 22 33 | 0 0 | 21 4 | 1 50 | 21 48 | 21 57 | 15 1 | | n.a. |
| S 18 | 2 11 | 15 48 | 4 8 | 3 53 | 3 5 | 1 9 | 0 54 | 1 15 | 0 36 | 15 42 | 1 0 | 21 5 | 1 29 | 20 31 | 0 42 | 22 33 | 0 0 | 21 5 | 1 50 | 21 48 | 21 56 | 15 3 | | n.a. |
| S 19 | 1 48 | 11 40 | 4 42 | 3 33 | 2 57 | 1 40 | 0 53 | 0 56 | 0 35 | 15 38 | 1 0 | 21 5 | 1 29 | 20 32 | 0 42 | 22 33 | 0 0 | 21 5 | 1 50 | 21 46 | 21 56 | 15 5 | | n.a. |
| M20 | 1 24 | 6 46 | 5 0 | 3 11 | 2 48 | 2 11 | 0 51 | 0 38 | 0 35 | 15 34 | 1 0 | 21 5 | 1 29 | 20 32 | 0 42 | 22 33 | 0 0 | 21 5 | 1 50 | 21 45 | 21 55 | 15 6 | | n.a. |
| T 21 | 1 1 | 1 22 | 5 0 | 2 46 | 2 37 | 2 43 | 0 49 | 0 19 | 0 34 | 15 29 | 1 0 | 21 6 | 1 28 | 20 32 | 0 42 | 22 33 | 0 0 | 21 5 | 1 50 | 21 43 | 21 55 | 15 8 | | n.a. |
| W22 | 0 37 | 4n13 | 4 39 | 2 19 | 2 25 | 3 14 | 0 47 | 0 1 | 0 34 | 15 25 | 1 0 | 21 6 | 1 28 | 20 32 | 0 42 | 22 33 | 0 0 | 21 5 | 1 49 | 21 41 | 21 54 | 15 10 | | n.a. |
| T 23 | 0 14 | 9 37 | 3 58 | 1 50 | 2 12 | 3 45 | 0 45 | 0n17 | 0 33 | 15 21 | 1 1 | 21 6 | 1 28 | 20 33 | 0 42 | 22 33 | 0 0 | 21 5 | 1 49 | 21 40 | 21 54 | 15 11 | | n.a. |
| F 24 | 0n10 | 14 26 | 3 1 | 1 20 | 1 58 | 4 16 | 0 43 | 0 35 | 0 33 | 15 17 | 1 1 | 21 7 | 1 28 | 20 33 | 0 42 | 22 33 | 0 0 | 21 5 | 1 49 | 21 39 | 21 53 | 15 13 | | n.a. |
| S 25 | 0 33 | 18 16 | 1 52 | 0 49 | 1 43 | 4 47 | 0 41 | 0 54 | 0 32 | 15 13 | 1 1 | 21 7 | 1 28 | 20 33 | 0 42 | 22 33 | 0 0 | 21 6 | 1 49 | 21 38 | 21 53 | 15 15 | | n.a. |
| S 26 | 0 57 | 20 52 | 0 37 | 0 19 | 1 27 | 5 18 | 0 38 | 1 12 | 0 31 | 15 9 | 1 1 | 21 7 | 1 28 | 20 33 | 0 42 | 22 34 | 0 0 | 21 6 | 1 49 | 21 38 | 21 52 | 15 17 | | n.a. |
| M27 | 1 20 | 22 4 | 0s39 | 0s12 | 1 11 | 5 49 | 0 36 | 1 30 | 0 31 | 15 5 | 1 1 | 21 8 | 1 28 | 20 33 | 0 42 | 22 34 | 0 0 | 21 6 | 1 49 | 21 38 | 21 52 | 15 18 | | n.a. |
| T 28 | 1 43 | 21 50 | 1 51 | 0 42 | 0 54 | 6 19 | 0 34 | 1 48 | 0 30 | 15 1 | 1 1 | 21 8 | 1 28 | 20 34 | 0 42 | 22 34 | 0 0 | 21 6 | 1 49 | 21 38 | 21 51 | 15 20 | | n.a. |
| W29 | 2 7 | 20 20 | 2 54 | 1 11 | 0 38 | 6 50 | 0 32 | 2 6 | 0 30 | 14 57 | 1 2 | 21 8 | 1 28 | 20 34 | 0 42 | 22 34 | 0 0 | 21 6 | 1 49 | 21 38 | 21 51 | 15 21 | | n.a. |
| T 30 | 2 30 | 17 45 | 3 47 | 1 39 | 0 21 | 7 20 | 0 30 | 2 24 | 0 29 | 14 53 | 1 2 | 21 8 | 1 28 | 20 34 | 0 42 | 22 34 | 0 0 | 21 6 | 1 49 | 21 37 | 21 50 | 15 23 | | n.a. |
| F 31 | 2n53 | 14n20 | 4s27 | 2s 5 | 0n 4 | 7n50 | 0s27 | 2n42 | 0s29 | 14s49 | 1s 2 | 21n 8 | 1n28 | 20n34 | 0n42 | 22n34 | 0n 0 | 21n 7 | 1s49 | 21s37 | 21s50 | 15s25 | | n.a. |

Julian Day Number = 1701393.5, Delta T = 03h05m23s
Ecliptic obliquity = 23°42'03, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°49'14, Lahiri = - 4°42'14 Julian Calendar 1 March 55 BCE == Greg. Calendar 27 Feb. 055 BCE

The year -54 astronomical counting style corresponds to year 055 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 55 BCE
# geocentric

## APRIL 55 BCE (-54) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 25 43 | 8♈10'19 | 20♌ 4 | 24°R15 | 22♈10 | 8♈34 | 23♒40 | 2°R56 | 2°R10 | 17°D21 | 15♊34 | 6°R18 | 7♐36 | 3♏11 | n.a. | S 1 |
| S 2 | 12 29 39 | 9° 8'25 | 2♍34 | 23♓57 | 23°23 | 9°17 | 23°52 | 2♌56 | 2♌10 | 17♋22 | 15°35 | 6♐10 | 7°33 | 3°17 | n.a. | S 2 |
| M 3 | 12 33 36 | 10° 6'28 | 14°54 | 23°42 | 24°37 | 10° 1 | 24° 4 | 2°55 | 2° 9 | 17°22 | 15°36 | 6° 0 | 7°30 | 3°24 | n.a. | M 3 |
| T 4 | 12 37 32 | 11° 4'30 | 27° 5 | 23°33 | 25°51 | 10°45 | 24°16 | 2°55 | 2° 9 | 17°22 | 15°36 | 5°49 | 7°27 | 3°31 | n.a. | T 4 |
| W 5 | 12 41 29 | 12° 2'29 | 9♎ 8 | 23°28 | 27° 4 | 11°28 | 24°28 | 2°55 | 2° 8 | 17°22 | 15°37 | 5°39 | 7°23 | 3°37 | n.a. | W 5 |
| T 6 | 12 45 25 | 13° 0'27 | 21° 4 | 23°D28 | 28°18 | 12°12 | 24°40 | 2°54 | 2° 8 | 17°22 | 15°38 | 5°31 | 7°20 | 3°44 | n.a. | T 6 |
| F 7 | 12 49 22 | 13°58'24 | 2♏55 | 23°32 | 29°31 | 12°55 | 24°52 | 2°D54 | 2° 8 | 17°22 | 15°39 | 5°24 | 7°17 | 3°51 | n.a. | F 7 |
| S 8 | 12 53 19 | 14°56'19 | 14°44 | 23°42 | 0♉45 | 13°38 | 25° 4 | 2°54 | 2° 7 | 17°22 | 15°39 | 5°20 | 7°14 | 3°57 | n.a. | S 8 |
| S 9 | 12 57 15 | 15°54'12 | 26°32 | 23°56 | 1°58 | 14°22 | 25°15 | 2°54 | 2° 7 | 17°23 | 15°40 | 5°17 | 7°11 | 4° 4 | n.a. | S 9 |
| M10 | 13 1 12 | 16°52'04 | 8♐23 | 24°14 | 3°12 | 15° 5 | 25°27 | 2°55 | 2° 7 | 17°23 | 15°41 | 5°D17 | 7° 7 | 4°11 | n.a. | M10 |
| T 11 | 13 5 8 | 17°49'54 | 20°21 | 24°37 | 4°25 | 15°48 | 25°38 | 2°55 | 2° 7 | 17°23 | 15°42 | 5°18 | 7° 4 | 4°17 | n.a. | T 11 |
| W12 | 13 9 5 | 18°47'44 | 2♑31 | 25° 5 | 5°39 | 16°31 | 25°50 | 2°55 | 2°D 7 | 17°24 | 15°43 | 5°19 | 7° 1 | 4°24 | n.a. | W12 |
| T 13 | 13 13 1 | 19°45'32 | 14°57 | 25°36 | 6°52 | 17°14 | 26° 1 | 2°56 | 2° 7 | 17°24 | 15°44 | 5°R20 | 6°58 | 4°31 | n.a. | T 13 |
| F 14 | 13 16 58 | 20°43'18 | 27°43 | 26°12 | 8° 6 | 17°58 | 26°12 | 2°57 | 2° 7 | 17°24 | 15°45 | 5°20 | 6°55 | 4°37 | n.a. | F 14 |
| S 15 | 13 20 54 | 21°41'04 | 10♒55 | 26°51 | 9°19 | 18°41 | 26°23 | 2°57 | 2° 7 | 17°25 | 15°46 | 5°18 | 6°52 | 4°44 | n.a. | S 15 |
| S 16 | 13 24 51 | 22°38'48 | 24°35 | 27°34 | 10°32 | 19°24 | 26°34 | 2°58 | 2° 7 | 17°25 | 15°47 | 5°15 | 6°48 | 4°51 | n.a. | S 16 |
| M17 | 13 28 47 | 23°36'31 | 8♓43 | 28°21 | 11°46 | 20° 6 | 26°45 | 2°59 | 2° 8 | 17°26 | 15°48 | 5°10 | 6°45 | 4°57 | n.a. | M17 |
| T 18 | 13 32 44 | 24°34'12 | 23°18 | 29°11 | 12°59 | 20°49 | 26°56 | 3° 0 | 2° 8 | 17°26 | 15°49 | 5° 4 | 6°42 | 5° 4 | n.a. | T 18 |
| W19 | 13 36 41 | 25°31'53 | 8♈15 | 0♈ 5 | 14°12 | 21°32 | 27° 7 | 3° 1 | 2° 8 | 17°27 | 15°50 | 4°58 | 6°39 | 5°11 | n.a. | W19 |
| T 20 | 13 40 37 | 26°29'32 | 23°25 | 1° 2 | 15°26 | 22°15 | 27°17 | 3° 3 | 2° 9 | 17°28 | 15°51 | 4°53 | 6°36 | 5°17 | n.a. | T 20 |
| F 21 | 13 44 34 | 27°27'10 | 8♉38 | 2° 2 | 16°39 | 22°58 | 27°28 | 3° 4 | 2° 9 | 17°28 | 15°52 | 4°49 | 6°32 | 5°24 | n.a. | F 21 |
| S 22 | 13 48 30 | 28°24'46 | 23°45 | 3° 5 | 17°52 | 23°40 | 27°38 | 3° 5 | 2° 9 | 17°29 | 15°53 | 4°47 | 6°29 | 5°31 | n.a. | S 22 |
| S 23 | 13 52 27 | 29°22'21 | 8♊36 | 4°11 | 19° 5 | 24°23 | 27°48 | 3° 7 | 2°10 | 17°30 | 15°54 | 4°D47 | 6°26 | 5°37 | n.a. | S 23 |
| M24 | 13 56 23 | 0♉19'55 | 23° 6 | 5°20 | 20°19 | 25° 5 | 27°58 | 3° 9 | 2°11 | 17°30 | 15°55 | 4°48 | 6°23 | 5°44 | n.a. | M24 |
| T 25 | 14 0 20 | 1°17'27 | 7♋11 | 6°32 | 21°32 | 25°48 | 28° 9 | 3°11 | 2°11 | 17°31 | 15°57 | 4°49 | 6°20 | 5°51 | n.a. | T 25 |
| W26 | 14 4 16 | 2°14'58 | 20°51 | 7°47 | 22°45 | 26°30 | 28°19 | 3°12 | 2°12 | 17°32 | 15°58 | 4°50 | 6°17 | 5°57 | n.a. | W26 |
| T 27 | 14 8 13 | 3°12'27 | 4♌ 7 | 9° 4 | 23°58 | 27°13 | 28°28 | 3°14 | 2°13 | 17°33 | 15°59 | 4°R51 | 6°13 | 6° 4 | n.a. | T 27 |
| F 28 | 14 12 10 | 4° 9'54 | 17° 2 | 10°24 | 25°11 | 27°55 | 28°38 | 3°16 | 2°14 | 17°34 | 16° 0 | 4°50 | 6°10 | 6°11 | n.a. | F 28 |
| S 29 | 14 16 6 | 5° 7'20 | 29°38 | 11°47 | 26°24 | 28°37 | 28°48 | 3°19 | 2°14 | 17°35 | 16° 1 | 4°48 | 6° 7 | 6°17 | n.a. | S 29 |
| S 30 | 14 20 3 | 6♉ 4'45 | 11♍59 | 13♈12 | 27♉37 | 29♈20 | 28♒57 | 3♌21 | 2♌15 | 17♋36 | 16♊ 2 | 4♐45 | 6♐ 4 | 6♏24 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 3n17 | 10n19 | 4s53 | 2s29 | 0s12 | 8n20 | 0s25 | 3n 0 | 0s28 | 14s45 | 1s 2 | 21n 8 | 1n28 | 20n34 | 0n42 | 22n34 | 0n 0 | 21n 7 | 1s48 | 21s36 | 21s49 | 15s26 | | n.a. |
| S 2 | 3 40 | 5 56 | 5 4 | 2 51 | 0 28 | 8 50 | 0 23 | 3 18 | 0 27 | 14 41 | 1 2 | 21 8 | 1 28 | 20 34 | 0 42 | 22 34 | 0 0 | 21 7 | 1 48 | 21 34 | 21 48 | 15 28 | | n.a. |
| M 3 | 4 3 | 1 23 | 5 1 | 3 11 | 0 43 | 9 20 | 0 20 | 3 36 | 0 27 | 14 37 | 1 2 | 21 8 | 1 28 | 20 34 | 0 42 | 22 34 | 0 0 | 21 7 | 1 48 | 21 33 | 21 48 | 15 30 | | n.a. |
| T 4 | 4 26 | 3s10 | 4 45 | 3 28 | 0 58 | 9 49 | 0 18 | 3 54 | 0 26 | 14 34 | 1 3 | 21 8 | 1 28 | 20 34 | 0 42 | 22 34 | 0 0 | 21 7 | 1 48 | 21 31 | 21 47 | 15 31 | | n.a. |
| W 5 | 4 49 | 7 33 | 4 15 | 3 43 | 1 12 | 10 18 | 0 15 | 4 12 | 0 26 | 14 30 | 1 3 | 21 8 | 1 28 | 20 34 | 0 42 | 22 34 | 0 0 | 21 7 | 1 48 | 21 29 | 21 47 | 15 33 | | n.a. |
| T 6 | 5 11 | 11 37 | 3 35 | 3 55 | 1 25 | 10 47 | 0 13 | 4 29 | 0 25 | 14 26 | 1 3 | 21 8 | 1 28 | 20 34 | 0 42 | 22 34 | 0 0 | 21 8 | 1 48 | 21 27 | 21 46 | 15 35 | | n.a. |
| F 7 | 5 34 | 15 12 | 2 45 | 4 5 | 1 38 | 11 16 | 0 10 | 4 47 | 0 24 | 14 22 | 1 3 | 21 8 | 1 27 | 20 34 | 0 41 | 22 34 | 0 0 | 21 8 | 1 48 | 21 26 | 21 46 | 15 36 | | n.a. |
| S 8 | 5 57 | 18 10 | 1 49 | 4 12 | 1 49 | 11 44 | 0 8 | 5 4 | 0 24 | 14 18 | 1 3 | 21 8 | 1 27 | 20 35 | 0 41 | 22 34 | 0 0 | 21 8 | 1 48 | 21 25 | 21 45 | 15 38 | | n.a. |
| S 9 | 6 19 | 20 21 | 0 47 | 4 16 | 2 0 | 12 12 | 0 5 | 5 22 | 0 23 | 14 14 | 1 4 | 21 8 | 1 27 | 20 35 | 0 41 | 22 34 | 0 0 | 21 8 | 1 48 | 21 25 | 21 45 | 15 39 | | n.a. |
| M10 | 6 42 | 21 40 | 0n17 | 4 18 | 2 10 | 12 40 | 0 3 | 5 39 | 0 23 | 14 11 | 1 4 | 21 8 | 1 27 | 20 35 | 0 41 | 22 34 | 0 0 | 21 8 | 1 48 | 21 25 | 21 44 | 15 41 | | n.a. |
| T 11 | 7 4 | 22 0 | 1 21 | 4 17 | 2 20 | 13 8 | 0 0 | 5 57 | 0 22 | 14 7 | 1 4 | 21 8 | 1 27 | 20 35 | 0 41 | 22 34 | 0 0 | 21 9 | 1 47 | 21 25 | 21 44 | 15 43 | | n.a. |
| W12 | 7 26 | 21 19 | 2 22 | 4 14 | 2 28 | 13 35 | 0n 2 | 6 14 | 0 21 | 14 3 | 1 4 | 21 8 | 1 27 | 20 35 | 0 41 | 22 33 | 0 0 | 21 9 | 1 47 | 21 25 | 21 43 | 15 44 | | n.a. |
| T 13 | 7 49 | 19 34 | 3 18 | 4 8 | 2 36 | 14 2 | 0 5 | 6 31 | 0 21 | 14 0 | 1 4 | 21 8 | 1 27 | 20 34 | 0 41 | 22 33 | 0 0 | 21 9 | 1 47 | 21 26 | 21 43 | 15 46 | | n.a. |
| F 14 | 8 11 | 16 49 | 4 6 | 4 0 | 2 42 | 14 28 | 0 7 | 6 49 | 0 20 | 13 56 | 1 5 | 21 7 | 1 27 | 20 34 | 0 41 | 22 33 | 0 0 | 21 9 | 1 47 | 21 25 | 21 42 | 15 47 | | n.a. |
| S 15 | 8 32 | 13 9 | 4 43 | 3 50 | 2 48 | 14 55 | 0 10 | 7 6 | 0 20 | 13 52 | 1 5 | 21 7 | 1 27 | 20 34 | 0 41 | 22 33 | 0 0 | 21 9 | 1 47 | 21 25 | 21 42 | 15 49 | | n.a. |
| S 16 | 8 54 | 8 41 | 5 5 | 3 37 | 2 53 | 15 20 | 0 12 | 7 23 | 0 19 | 13 49 | 1 5 | 21 7 | 1 27 | 20 34 | 0 41 | 22 33 | 0 0 | 21 10 | 1 47 | 21 25 | 21 41 | 15 51 | | n.a. |
| M17 | 9 16 | 3 37 | 5 9 | 3 22 | 2 58 | 15 46 | 0 15 | 7 40 | 0 18 | 13 45 | 1 5 | 21 7 | 1 27 | 20 34 | 0 41 | 22 33 | 0 0 | 21 10 | 1 47 | 21 24 | 21 40 | 15 52 | | n.a. |
| T 18 | 9 37 | 1n49 | 4 55 | 3 5 | 3 1 | 16 11 | 0 17 | 7 56 | 0 18 | 13 42 | 1 6 | 21 6 | 1 27 | 20 34 | 0 41 | 22 33 | 0 0 | 21 10 | 1 47 | 21 23 | 21 40 | 15 54 | | n.a. |
| W19 | 9 59 | 7 16 | 4 20 | 2 46 | 3 4 | 16 36 | 0 20 | 8 13 | 0 17 | 13 38 | 1 6 | 21 6 | 1 27 | 20 34 | 0 41 | 22 33 | 0 0 | 21 10 | 1 47 | 21 22 | 21 39 | 15 55 | | n.a. |
| T 20 | 10 20 | 12 23 | 3 26 | 2 25 | 3 6 | 17 0 | 0 23 | 8 30 | 0 17 | 13 35 | 1 6 | 21 6 | 1 27 | 20 34 | 0 41 | 22 33 | 0 0 | 21 10 | 1 47 | 21 21 | 21 39 | 15 57 | | n.a. |
| F 21 | 10 41 | 16 42 | 2 18 | 2 2 | 3 7 | 17 24 | 0 25 | 8 47 | 0 16 | 13 31 | 1 6 | 21 5 | 1 26 | 20 34 | 0 41 | 22 33 | 0 0 | 21 11 | 1 47 | 21 20 | 21 38 | 15 58 | | n.a. |
| S 22 | 11 2 | 19 53 | 1 0 | 1 37 | 3 8 | 17 47 | 0 28 | 9 3 | 0 15 | 13 28 | 1 6 | 21 5 | 1 26 | 20 34 | 0 41 | 22 33 | 0 0 | 21 11 | 1 46 | 21 19 | 21 38 | 16 0 | | n.a. |
| S 23 | 11 22 | 21 38 | 0s21 | 1 11 | 3 7 | 18 10 | 0 30 | 9 19 | 0 15 | 13 24 | 1 7 | 21 4 | 1 26 | 20 33 | 0 41 | 22 33 | 0 0 | 21 11 | 1 46 | 21 19 | 21 37 | 16 2 | | n.a. |
| M24 | 11 43 | 21 53 | 1 38 | 0 42 | 3 7 | 18 33 | 0 33 | 9 36 | 0 14 | 13 21 | 1 7 | 21 4 | 1 26 | 20 33 | 0 41 | 22 33 | 0 0 | 21 11 | 1 46 | 21 20 | 21 37 | 16 3 | | n.a. |
| T 25 | 12 3 | 20 43 | 2 48 | 0 12 | 3 5 | 18 54 | 0 35 | 9 52 | 0 13 | 13 18 | 1 7 | 21 3 | 1 26 | 20 33 | 0 41 | 22 33 | 0 0 | 21 11 | 1 46 | 21 20 | 21 36 | 16 5 | | n.a. |
| W26 | 12 23 | 18 21 | 3 46 | 0n20 | 3 3 | 19 16 | 0 38 | 10 8 | 0 13 | 13 15 | 1 7 | 21 3 | 1 26 | 20 33 | 0 41 | 22 33 | 0 0 | 21 12 | 1 46 | 21 20 | 21 36 | 16 6 | | n.a. |
| T 27 | 12 43 | 15 4 | 4 29 | 0 53 | 3 0 | 19 37 | 0 40 | 10 24 | 0 12 | 13 11 | 1 8 | 21 2 | 1 26 | 20 33 | 0 41 | 22 32 | 0 0 | 21 12 | 1 46 | 21 20 | 21 35 | 16 8 | | n.a. |
| F 28 | 13 3 | 11 10 | 4 58 | 1 28 | 2 56 | 19 57 | 0 43 | 10 40 | 0 12 | 13 8 | 1 8 | 21 2 | 1 26 | 20 32 | 0 41 | 22 32 | 0 0 | 21 12 | 1 46 | 21 20 | 21 34 | 16 9 | | n.a. |
| S 29 | 13 22 | 6 52 | 5 12 | 2 4 | 2 52 | 20 17 | 0 45 | 10 56 | 0 11 | 13 5 | 1 8 | 21 1 | 1 26 | 20 32 | 0 41 | 22 32 | 0 0 | 21 12 | 1 46 | 21 20 | 21 34 | 16 11 | | n.a. |
| S 30 | 13n42 | 2n21 | 5s11 | 2n42 | 2s47 | 20n37 | 0n47 | 11n12 | 0s10 | 13s 2 | 1s 8 | 21n 1 | 1n26 | 20n32 | 0n41 | 22n32 | 0n 0 | 21n12 | 1s46 | 21s19 | 21s33 | 16s12 | | n.a. |

Julian Day Number = 1701424.5, Delta T = 03h05m22s
Ecliptic obliquity = 23°42'03, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°49'10, Lahiri = - 4°42'10 Julian Calendar 1 Apr. 55 BCE == Greg. Calendar 30 March 055 BCE

The year -54 astronomical counting style corresponds to year 055 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 55 BCE
# geocentric

## MAY 55 BCE (-54) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 14 23 59 | 7♉ 2'09 | 24♍ 9 | 14♈40 | 28♉50 | 0♉ 2 | 29♒ 6 | 3♌23 | 2♌16 | 17♋37 | 16♊ 4 | 4°R40 | 6♐ 1 | 6♏31 | n.a. | M 1 |
| T 2 | 14 27 56 | 7°59'31 | 6♎10 | 16°11 | 0♊ 3 | 0°44 | 29°16 | 3°26 | 2°17 | 17°38 | 16° 5 | 4♐36 | 5°58 | 6°37 | n.a. | T 2 |
| W 3 | 14 31 52 | 8°56'52 | 18° 5 | 17°43 | 1°16 | 1°26 | 29°25 | 3°28 | 2°18 | 17°39 | 16° 6 | 4°32 | 5°54 | 6°44 | n.a. | W 3 |
| T 4 | 14 35 49 | 9°54'12 | 29°56 | 19°19 | 2°29 | 2° 8 | 29°34 | 3°31 | 2°20 | 17°40 | 16° 7 | 4°28 | 5°51 | 6°51 | n.a. | T 4 |
| F 5 | 14 39 45 | 10°51'31 | 11♏44 | 20°57 | 3°42 | 2°50 | 29°43 | 3°34 | 2°21 | 17°41 | 16° 9 | 4°25 | 5°48 | 6°57 | n.a. | F 5 |
| S 6 | 14 43 42 | 11°48'49 | 23°34 | 22°37 | 4°55 | 3°32 | 29°51 | 3°37 | 2°22 | 17°42 | 16°10 | 4°24 | 5°45 | 7° 4 | n.a. | S 6 |
| S 7 | 14 47 39 | 12°46'06 | 5♐25 | 24°20 | 6° 7 | 4°14 | 0♓ 0 | 3°39 | 2°23 | 17°43 | 16°11 | 4°D23 | 5°42 | 7°11 | n.a. | S 7 |
| M 8 | 14 51 35 | 13°43'23 | 17°22 | 26° 6 | 7°20 | 4°56 | 0° 9 | 3°42 | 2°24 | 17°44 | 16°13 | 4°24 | 5°38 | 7°17 | n.a. | M 8 |
| T 9 | 14 55 32 | 14°40'39 | 29°26 | 27°54 | 8°33 | 5°38 | 0°17 | 3°46 | 2°26 | 17°45 | 16°14 | 4°25 | 5°35 | 7°24 | n.a. | T 9 |
| W10 | 14 59 28 | 15°37'54 | 11♑41 | 29°44 | 9°46 | 6°19 | 0°25 | 3°49 | 2°27 | 17°46 | 16°15 | 4°26 | 5°32 | 7°31 | n.a. | W10 |
| T 11 | 15 3 25 | 16°35'09 | 24°11 | 1♉37 | 10°58 | 7° 1 | 0°33 | 3°52 | 2°29 | 17°48 | 16°17 | 4°28 | 5°29 | 7°37 | n.a. | T 11 |
| F 12 | 15 7 21 | 17°32'23 | 6♒59 | 3°32 | 12°11 | 7°43 | 0°41 | 3°55 | 2°30 | 17°49 | 16°18 | 4°29 | 5°26 | 7°44 | n.a. | F 12 |
| S 13 | 15 11 18 | 18°29'37 | 20° 9 | 5°29 | 13°24 | 8°24 | 0°49 | 3°59 | 2°32 | 17°50 | 16°19 | 4°R29 | 5°23 | 7°51 | n.a. | S 13 |
| S 14 | 15 15 14 | 19°26'51 | 3♓42 | 7°28 | 14°36 | 9° 6 | 0°57 | 4° 3 | 2°33 | 17°52 | 16°21 | 4°28 | 5°19 | 7°57 | n.a. | S 14 |
| M15 | 15 19 11 | 20°24'04 | 17°41 | 9°30 | 15°49 | 9°47 | 1° 4 | 4° 6 | 2°35 | 17°53 | 16°22 | 4°27 | 5°16 | 8° 4 | n.a. | M15 |
| T 16 | 15 23 8 | 21°21'16 | 2♈ 4 | 11°33 | 17° 2 | 10°29 | 1°11 | 4°10 | 2°37 | 17°54 | 16°24 | 4°26 | 5°13 | 8°11 | n.a. | T 16 |
| W17 | 15 27 4 | 22°18'29 | 16°50 | 13°38 | 18°14 | 11°10 | 1°19 | 4°14 | 2°39 | 17°56 | 16°25 | 4°24 | 5°10 | 8°17 | n.a. | W17 |
| T 18 | 15 31 1 | 23°15'41 | 1♉50 | 15°45 | 19°27 | 11°51 | 1°26 | 4°18 | 2°40 | 17°57 | 16°27 | 4°23 | 5° 7 | 8°24 | n.a. | T 18 |
| F 19 | 15 34 57 | 24°12'52 | 16°59 | 17°54 | 20°39 | 12°33 | 1°33 | 4°22 | 2°42 | 17°59 | 16°28 | 4°22 | 5° 3 | 8°31 | n.a. | F 19 |
| S 20 | 15 38 54 | 25°10'04 | 2♊ 6 | 20° 3 | 21°52 | 13°14 | 1°39 | 4°26 | 2°44 | 18° 0 | 16°29 | 4°D22 | 5° 0 | 8°37 | n.a. | S 20 |
| S 21 | 15 42 50 | 26° 7'15 | 17° 3 | 22°13 | 23° 4 | 13°55 | 1°46 | 4°30 | 2°46 | 18° 2 | 16°31 | 4°22 | 4°57 | 8°44 | n.a. | S 21 |
| M22 | 15 46 47 | 27° 4'25 | 1♋41 | 24°24 | 24°16 | 14°36 | 1°53 | 4°34 | 2°48 | 18° 3 | 16°32 | 4°23 | 4°54 | 8°51 | n.a. | M22 |
| T 23 | 15 50 44 | 28° 1'35 | 15°56 | 26°35 | 25°29 | 15°18 | 1°59 | 4°38 | 2°50 | 18° 5 | 16°34 | 4°23 | 4°51 | 8°57 | n.a. | T 23 |
| W24 | 15 54 40 | 28°58'44 | 29°45 | 28°47 | 26°41 | 15°59 | 2° 5 | 4°43 | 2°52 | 18° 6 | 16°35 | 4°24 | 4°48 | 9° 4 | n.a. | W24 |
| T 25 | 15 58 37 | 29°55'53 | 13♌ 7 | 0♊58 | 27°54 | 16°40 | 2°11 | 4°47 | 2°54 | 18° 8 | 16°37 | 4°24 | 4°44 | 9°11 | n.a. | T 25 |
| F 26 | 16 2 33 | 0♊53'01 | 26° 6 | 3° 9 | 29° 6 | 17°21 | 2°17 | 4°52 | 2°57 | 18° 9 | 16°38 | 4°R24 | 4°41 | 9°17 | n.a. | F 26 |
| S 27 | 16 6 30 | 1°50'08 | 8♍42 | 5°19 | 0♋18 | 18° 1 | 2°22 | 4°56 | 2°59 | 18°11 | 16°40 | 4°24 | 4°38 | 9°24 | n.a. | S 27 |
| S 28 | 16 10 26 | 2°47'15 | 21° 1 | 7°28 | 1°30 | 18°42 | 2°28 | 5° 1 | 3° 1 | 18°13 | 16°41 | 4°24 | 4°35 | 9°31 | n.a. | S 28 |
| M29 | 16 14 23 | 3°44'21 | 3♎ 7 | 9°36 | 2°42 | 19°23 | 2°33 | 5° 6 | 3° 3 | 18°14 | 16°43 | 4°24 | 4°32 | 9°37 | n.a. | M29 |
| T 30 | 16 18 19 | 4°41'28 | 15° 3 | 11°42 | 3°55 | 20° 4 | 2°38 | 5°11 | 3° 6 | 18°16 | 16°44 | 4°D24 | 4°29 | 9°44 | n.a. | T 30 |
| W31 | 16 22 16 | 5♊38'33 | 26♎54 | 13♊48 | 5♋ 7 | 20♉45 | 2♓43 | 5♌16 | 3♌ 8 | 18♋18 | 16♊46 | 4♐24 | 4♐25 | 9♏51 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| M 1 | 14n 1 | 2s10 | 4s55 | 3n21 | 2s42 | 20n56 | 0n50 | 11n27 | 0s10 | 12s59 | 1s 9 | 21n 0 | 1n26 | 20n32 | 0n41 | 22n32 | 0n 0 | 21n13 | 1s46 | 21s18 | 21s33 | 16s14 | | | n.a. |
| T 2 | 14 20 | 6 33 | 4 27 | 4 2 | 2 36 | 21 14 | 0 52 | 11 43 | 0 9 | 12 56 | 1 9 | 20 59 | 1 26 | 20 31 | 0 41 | 22 32 | 0 0 | 21 13 | 1 46 | 21 17 | 21 32 | 16 15 | | | n.a. |
| W 3 | 14 38 | 10 40 | 3 48 | 4 43 | 2 30 | 21 32 | 0 55 | 11 58 | 0 9 | 12 53 | 1 9 | 20 59 | 1 26 | 20 31 | 0 41 | 22 32 | 0 0 | 21 13 | 1 45 | 21 17 | 21 32 | 16 17 | | | n.a. |
| T 4 | 14 57 | 14 21 | 2 58 | 5 26 | 2 23 | 21 49 | 0 57 | 12 13 | 0 8 | 12 50 | 1 9 | 20 58 | 1 25 | 20 31 | 0 41 | 22 32 | 0 0 | 21 13 | 1 45 | 21 16 | 21 31 | 16 18 | | | n.a. |
| F 5 | 15 15 | 17 27 | 2 2 | 6 10 | 2 15 | 22 5 | 0 59 | 12 28 | 0 7 | 12 47 | 1 10 | 20 57 | 1 25 | 20 31 | 0 41 | 22 32 | 0 0 | 21 14 | 1 45 | 21 15 | 21 30 | 16 20 | | | n.a. |
| S 6 | 15 33 | 19 49 | 0 59 | 6 56 | 2 7 | 22 21 | 1 1 | 12 43 | 0 7 | 12 44 | 1 10 | 20 56 | 1 25 | 20 30 | 0 41 | 22 31 | 0 0 | 21 14 | 1 45 | 21 15 | 21 30 | 16 21 | | | n.a. |
| S 7 | 15 50 | 21 21 | 0n 6 | 7 42 | 1 59 | 22 37 | 1 4 | 12 58 | 0 6 | 12 41 | 1 10 | 20 56 | 1 25 | 20 30 | 0 41 | 22 31 | 0 0 | 21 14 | 1 45 | 21 15 | 21 29 | 16 23 | | | n.a. |
| M 8 | 16 8 | 21 55 | 1 11 | 8 29 | 1 50 | 22 51 | 1 6 | 13 13 | 0 5 | 12 38 | 1 10 | 20 55 | 1 25 | 20 30 | 0 40 | 22 31 | 0 0 | 21 14 | 1 45 | 21 15 | 21 29 | 16 24 | | | n.a. |
| T 9 | 16 25 | 21 28 | 2 14 | 9 16 | 1 41 | 23 5 | 1 8 | 13 28 | 0 5 | 12 36 | 1 11 | 20 54 | 1 25 | 20 29 | 0 40 | 22 31 | 0 0 | 21 14 | 1 45 | 21 15 | 21 28 | 16 26 | | | n.a. |
| W10 | 16 42 | 20 0 | 3 12 | 10 5 | 1 31 | 23 19 | 1 10 | 13 42 | 0 4 | 12 33 | 1 11 | 20 53 | 1 25 | 20 29 | 0 40 | 22 31 | 0 0 | 21 15 | 1 45 | 21 16 | 21 28 | 16 27 | | | n.a. |
| T 11 | 16 59 | 17 33 | 4 2 | 10 54 | 1 21 | 23 31 | 1 12 | 13 57 | 0 4 | 12 30 | 1 11 | 20 52 | 1 25 | 20 29 | 0 40 | 22 31 | 0 1 | 21 15 | 1 45 | 21 16 | 21 27 | 16 29 | | | n.a. |
| F 12 | 17 15 | 14 12 | 4 41 | 11 43 | 1 11 | 23 44 | 1 14 | 14 11 | 0 3 | 12 28 | 1 11 | 20 51 | 1 25 | 20 28 | 0 40 | 22 30 | 0 1 | 21 15 | 1 45 | 21 16 | 21 27 | 16 30 | | | n.a. |
| S 13 | 17 31 | 10 5 | 5 7 | 12 33 | 1 0 | 23 55 | 1 16 | 14 25 | 0 2 | 12 25 | 1 12 | 20 51 | 1 25 | 20 28 | 0 40 | 22 30 | 0 1 | 21 15 | 1 45 | 21 16 | 21 26 | 16 32 | | | n.a. |
| S 14 | 17 47 | 5 21 | 5 17 | 13 22 | 0 50 | 24 6 | 1 18 | 14 39 | 0 2 | 12 23 | 1 12 | 20 50 | 1 25 | 20 27 | 0 40 | 22 30 | 0 1 | 21 16 | 1 45 | 21 16 | 21 25 | 16 33 | | | n.a. |
| M15 | 18 3 | 0 12 | 5 8 | 14 12 | 0 39 | 24 16 | 1 20 | 14 53 | 0 1 | 12 20 | 1 12 | 20 49 | 1 25 | 20 27 | 0 40 | 22 30 | 0 1 | 21 16 | 1 44 | 21 16 | 21 25 | 16 35 | | | n.a. |
| T 16 | 18 18 | 5n 7 | 4 41 | 15 1 | 0 28 | 24 25 | 1 22 | 15 7 | 0 1 | 12 18 | 1 13 | 20 48 | 1 25 | 20 27 | 0 40 | 22 30 | 0 1 | 21 16 | 1 44 | 21 16 | 21 24 | 16 36 | | | n.a. |
| W17 | 18 33 | 10 17 | 3 54 | 15 50 | 0 17 | 24 34 | 1 24 | 15 21 | 0n 0 | 12 16 | 1 13 | 20 47 | 1 25 | 20 26 | 0 40 | 22 30 | 0 1 | 21 16 | 1 44 | 21 15 | 21 24 | 16 37 | | | n.a. |
| T 18 | 18 47 | 14 55 | 2 51 | 16 38 | 0 6 | 24 42 | 1 25 | 15 34 | 0 1 | 12 13 | 1 13 | 20 46 | 1 25 | 20 26 | 0 40 | 22 29 | 0 1 | 21 16 | 1 44 | 21 15 | 21 23 | 16 39 | | | n.a. |
| F 19 | 19 2 | 18 36 | 1 35 | 17 26 | 0n 5 | 24 49 | 1 27 | 15 48 | 0 1 | 12 11 | 1 13 | 20 45 | 1 24 | 20 25 | 0 40 | 22 29 | 0 1 | 21 17 | 1 44 | 21 15 | 21 22 | 16 40 | | | n.a. |
| S 20 | 19 16 | 21 1 | 0 13 | 18 12 | 0 15 | 24 55 | 1 29 | 16 1 | 0 2 | 12 9 | 1 14 | 20 44 | 1 24 | 20 25 | 0 40 | 22 29 | 0 1 | 21 17 | 1 44 | 21 15 | 21 22 | 16 42 | | | n.a. |
| S 21 | 19 30 | 21 54 | 1s10 | 18 56 | 0 26 | 25 1 | 1 30 | 16 14 | 0 3 | 12 7 | 1 14 | 20 43 | 1 24 | 20 24 | 0 40 | 22 29 | 0 1 | 21 17 | 1 44 | 21 15 | 21 21 | 16 43 | | | n.a. |
| M22 | 19 43 | 21 15 | 2 26 | 19 39 | 0 36 | 25 6 | 1 32 | 16 27 | 0 3 | 12 5 | 1 14 | 20 42 | 1 24 | 20 24 | 0 40 | 22 29 | 0 1 | 21 17 | 1 44 | 21 15 | 21 21 | 16 45 | | | n.a. |
| T 23 | 19 56 | 19 15 | 3 31 | 20 20 | 0 45 | 25 10 | 1 33 | 16 40 | 0 4 | 12 3 | 1 15 | 20 40 | 1 24 | 20 23 | 0 40 | 22 29 | 0 1 | 21 17 | 1 44 | 21 15 | 21 20 | 16 46 | | | n.a. |
| W24 | 20 9 | 16 10 | 4 22 | 21 0 | 0 55 | 25 14 | 1 35 | 16 52 | 0 4 | 12 1 | 1 15 | 20 39 | 1 24 | 20 23 | 0 40 | 22 28 | 0 1 | 21 18 | 1 44 | 21 15 | 21 20 | 16 47 | | | n.a. |
| T 25 | 20 21 | 12 20 | 4 56 | 21 37 | 1 3 | 25 17 | 1 36 | 17 5 | 0 5 | 11 59 | 1 15 | 20 38 | 1 24 | 20 22 | 0 40 | 22 28 | 0 1 | 21 18 | 1 44 | 21 15 | 21 19 | 16 49 | | | n.a. |
| F 26 | 20 33 | 8 2 | 5 14 | 22 11 | 1 12 | 25 19 | 1 37 | 17 17 | 0 6 | 11 57 | 1 16 | 20 37 | 1 24 | 20 22 | 0 40 | 22 28 | 0 1 | 21 18 | 1 44 | 21 15 | 21 18 | 16 50 | | | n.a. |
| S 27 | 20 45 | 3 30 | 5 17 | 22 43 | 1 19 | 25 20 | 1 38 | 17 29 | 0 6 | 11 55 | 1 16 | 20 36 | 1 24 | 20 21 | 0 40 | 22 28 | 0 1 | 21 18 | 1 44 | 21 15 | 21 18 | 16 52 | | | n.a. |
| S 28 | 20 57 | 1s 4 | 5 4 | 23 12 | 1 26 | 25 21 | 1 40 | 17 41 | 0 7 | 11 53 | 1 16 | 20 35 | 1 24 | 20 21 | 0 40 | 22 27 | 0 1 | 21 19 | 1 44 | 21 15 | 21 17 | 16 53 | | | n.a. |
| M29 | 21 8 | 5 30 | 4 39 | 23 39 | 1 32 | 25 21 | 1 41 | 17 53 | 0 8 | 11 52 | 1 16 | 20 33 | 1 24 | 20 20 | 0 40 | 22 27 | 0 1 | 21 19 | 1 43 | 21 15 | 21 17 | 16 55 | | | n.a. |
| T 30 | 21 18 | 9 41 | 4 1 | 24 3 | 1 38 | 25 20 | 1 42 | 18 5 | 0 8 | 11 50 | 1 17 | 20 32 | 1 24 | 20 20 | 0 40 | 22 27 | 0 1 | 21 19 | 1 43 | 21 15 | 21 16 | 16 56 | | | n.a. |
| W31 | 21n29 | 13s29 | 3s14 | 24n24 | 1n43 | 25n19 | 1n43 | 18n16 | 0n 9 | 11s49 | 1s17 | 20n31 | 1n24 | 20n19 | 0n40 | 22n27 | 0n 1 | 21n19 | 1s43 | 21s15 | 21s15 | 16s57 | | | n.a. |

Julian Day Number = 1701454.5, Delta T = 03h05m21s
Ecliptic obliquity = 23°42'02, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°49'06, Lahiri = - 4°42'06 Julian Calendar 1 May 55 BCE == Greg. Calendar 29 Apr. 055 BCE

The year -54 astronomical counting style corresponds to year 055 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 55 BCE
# geocentric

## JUNE 55 BCE (-54) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 26 13 | 6♊35'39 | 8♏42 | 15♊51 | 6♋19 | 21♉25 | 2♓48 | 5♌21 | 3♌10 | 18♋20 | 16♊47 | 4♐24 | 4♐22 | 9♏57 | n.a. | T 1 |
| F 2 | 16 30 9 | 7°32'44 | 20°31 | 17°53 | 7°31 | 22° 6 | 2°53 | 5°26 | 3°13 | 18°21 | 16°49 | 4°25 | 4°19 | 10° 4 | n.a. | F 2 |
| S 3 | 16 34 6 | 8°29'50 | 2♐24 | 19°53 | 8°43 | 22°47 | 2°57 | 5°31 | 3°15 | 18°23 | 16°50 | 4°R25 | 4°16 | 10°11 | n.a. | S 3 |
| S 4 | 16 38 2 | 9°26'55 | 14°23 | 21°51 | 9°55 | 23°27 | 3° 2 | 5°36 | 3°18 | 18°25 | 16°52 | 4°25 | 4°13 | 10°17 | n.a. | S 4 |
| M 5 | 16 41 59 | 10°24'01 | 26°30 | 23°48 | 11° 7 | 24° 8 | 3° 6 | 5°41 | 3°20 | 18°27 | 16°53 | 4°24 | 4° 9 | 10°24 | n.a. | M 5 |
| T 6 | 16 45 55 | 11°21'07 | 8♑46 | 25°42 | 12°18 | 24°48 | 3°10 | 5°47 | 3°23 | 18°29 | 16°55 | 4°24 | 4° 6 | 10°31 | n.a. | T 6 |
| W 7 | 16 49 52 | 12°18'13 | 21°15 | 27°35 | 13°30 | 25°28 | 3°14 | 5°52 | 3°26 | 18°31 | 16°56 | 4°23 | 4° 3 | 10°37 | n.a. | W 7 |
| T 8 | 16 53 48 | 13°15'19 | 3♒56 | 29°25 | 14°42 | 26° 9 | 3°17 | 5°58 | 3°28 | 18°32 | 16°58 | 4°22 | 4° 0 | 10°44 | n.a. | T 8 |
| F 9 | 16 57 45 | 14°12'26 | 16°53 | 1♋14 | 15°54 | 26°49 | 3°21 | 6° 3 | 3°31 | 18°34 | 17° 0 | 4°21 | 3°57 | 10°51 | n.a. | F 9 |
| S 10 | 17 1 42 | 15° 9'33 | 0♓ 6 | 3° 1 | 17° 5 | 27°29 | 3°24 | 6° 9 | 3°34 | 18°36 | 17° 1 | 4°20 | 3°54 | 10°57 | n.a. | S 10 |
| S 11 | 17 5 38 | 16° 6'40 | 13°39 | 4°45 | 18°17 | 28°10 | 3°27 | 6°14 | 3°37 | 18°38 | 17° 3 | 4°D19 | 3°50 | 11° 4 | n.a. | S 11 |
| M12 | 17 9 35 | 17° 3'49 | 27°30 | 6°28 | 19°29 | 28°50 | 3°30 | 6°20 | 3°39 | 18°40 | 17° 4 | 4°20 | 3°47 | 11°10 | n.a. | M12 |
| T 13 | 17 13 31 | 18° 0'57 | 11♈40 | 8° 8 | 20°40 | 29°30 | 3°33 | 6°26 | 3°42 | 18°42 | 17° 6 | 4°20 | 3°44 | 11°17 | n.a. | T 13 |
| W14 | 17 17 28 | 18°58'07 | 26° 8 | 9°47 | 21°52 | 0♊10 | 3°35 | 6°32 | 3°45 | 18°44 | 17° 7 | 4°21 | 3°41 | 11°24 | n.a. | W14 |
| T 15 | 17 21 24 | 19°55'17 | 10♉50 | 11°24 | 23° 3 | 0°50 | 3°37 | 6°38 | 3°48 | 18°46 | 17° 9 | 4°22 | 3°38 | 11°30 | n.a. | T 15 |
| F 16 | 17 25 21 | 20°52'28 | 25°40 | 12°58 | 24°15 | 1°30 | 3°39 | 6°44 | 3°51 | 18°48 | 17°10 | 4°23 | 3°35 | 11°37 | n.a. | F 16 |
| S 17 | 17 29 17 | 21°49'40 | 10♊33 | 14°31 | 25°26 | 2°10 | 3°41 | 6°50 | 3°54 | 18°50 | 17°12 | 4°R23 | 3°31 | 11°44 | n.a. | S 17 |
| S 18 | 17 33 14 | 22°46'52 | 25°21 | 16° 2 | 26°38 | 2°50 | 3°43 | 6°56 | 3°57 | 18°52 | 17°13 | 4°22 | 3°28 | 11°50 | n.a. | S 18 |
| M19 | 17 37 11 | 23°44'04 | 9♋55 | 17°30 | 27°49 | 3°30 | 3°45 | 7° 2 | 4° 0 | 18°54 | 17°15 | 4°21 | 3°25 | 11°57 | n.a. | M19 |
| T 20 | 17 41 7 | 24°41'18 | 24°11 | 18°57 | 29° 0 | 4°10 | 3°46 | 7° 8 | 4° 3 | 18°56 | 17°17 | 4°18 | 3°22 | 12° 4 | n.a. | T 20 |
| W21 | 17 45 4 | 25°38'31 | 8♌ 3 | 20°22 | 0♌11 | 4°49 | 3°47 | 7°14 | 4° 6 | 18°58 | 17°18 | 4°15 | 3°19 | 12°10 | n.a. | W21 |
| T 22 | 17 49 0 | 26°35'45 | 21°30 | 21°44 | 1°23 | 5°29 | 3°48 | 7°20 | 4° 9 | 19° 0 | 17°20 | 4°12 | 3°15 | 12°17 | n.a. | T 22 |
| F 23 | 17 52 57 | 27°32'59 | 4♍32 | 23° 4 | 2°34 | 6° 9 | 3°49 | 7°27 | 4°13 | 19° 2 | 17°21 | 4°10 | 3°12 | 12°24 | n.a. | F 23 |
| S 24 | 17 56 53 | 28°30'14 | 17°12 | 24°22 | 3°45 | 6°49 | 3°49 | 7°33 | 4°16 | 19° 5 | 17°23 | 4° 8 | 3° 9 | 12°30 | n.a. | S 24 |
| S 25 | 18 0 50 | 29°27'29 | 29°32 | 25°38 | 4°56 | 7°28 | 3°50 | 7°40 | 4°19 | 19° 7 | 17°24 | 4°D 8 | 3° 6 | 12°37 | n.a. | S 25 |
| M26 | 18 4 47 | 0♋24'44 | 11♎37 | 26°52 | 6° 7 | 8° 8 | 3°R50 | 7°46 | 4°22 | 19° 9 | 17°26 | 4° 8 | 3° 3 | 12°44 | n.a. | M26 |
| T 27 | 18 8 43 | 1°22'01 | 23°32 | 28° 3 | 7°18 | 8°47 | 3°50 | 7°52 | 4°26 | 19°11 | 17°27 | 4°10 | 3° 0 | 12°50 | n.a. | T 27 |
| W28 | 18 12 40 | 2°19'17 | 5♏21 | 29°12 | 8°29 | 9°27 | 3°50 | 7°59 | 4°29 | 19°13 | 17°29 | 4°11 | 2°56 | 12°57 | n.a. | W28 |
| T 29 | 18 16 36 | 3°16'35 | 17°10 | 0♌18 | 9°39 | 10° 6 | 3°49 | 8° 6 | 4°32 | 19°15 | 17°30 | 4°13 | 2°53 | 13° 4 | n.a. | T 29 |
| F 30 | 18 20 33 | 4♋13'53 | 29♏ 2 | 1♌21 | 10♌50 | 10♊46 | 3♓49 | 8♌12 | 4♌36 | 19♋17 | 17♊32 | 4°R14 | 2♐50 | 13♏10 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21n39 | 16s44 | 2s18 | 24n43 | 1n47 | 25n16 | 1n43 | 18n28 | 0n 9 | 11s47 | 1s17 | 20n30 | 1n24 | 20n18 | 0n40 | 22n27 | 0n 1 | 21n19 | 1s43 | 21s15 | 21s15 | 16s59 | | n.a. |
| F 2 | 21 48 | 19 18 | 1 16 | 24 58 | 1 50 | 25 13 | 1 44 | 18 39 | 0 10 | 11 46 | 1 18 | 20 28 | 1 24 | 20 18 | 0 40 | 22 26 | 0 1 | 21 20 | 1 43 | 21 15 | 21 14 | 17 0 | | n.a. |
| S 3 | 21 58 | 21 3 | 0 11 | 25 11 | 1 53 | 25 9 | 1 45 | 18 50 | 0 11 | 11 44 | 1 18 | 20 27 | 1 24 | 20 17 | 0 40 | 22 26 | 0 1 | 21 20 | 1 43 | 21 15 | 21 14 | 17 1 | | n.a. |
| S 4 | 22 7 | 21 52 | 0n55 | 25 22 | 1 55 | 25 5 | 1 46 | 19 1 | 0 11 | 11 43 | 1 18 | 20 26 | 1 24 | 20 17 | 0 40 | 22 26 | 0 1 | 21 20 | 1 43 | 21 15 | 21 13 | 17 3 | | n.a. |
| M 5 | 22 15 | 21 40 | 2 0 | 25 29 | 1 56 | 25 0 | 1 46 | 19 12 | 0 12 | 11 42 | 1 19 | 20 24 | 1 24 | 20 16 | 0 40 | 22 26 | 0 1 | 21 20 | 1 43 | 21 15 | 21 12 | 17 4 | | n.a. |
| T 6 | 22 23 | 20 25 | 2 59 | 25 35 | 1 57 | 24 54 | 1 47 | 19 23 | 0 12 | 11 41 | 1 19 | 20 23 | 1 24 | 20 15 | 0 40 | 22 25 | 0 1 | 21 20 | 1 43 | 21 15 | 21 12 | 17 6 | | n.a. |
| W 7 | 22 31 | 18 11 | 3 52 | 25 38 | 1 57 | 24 47 | 1 47 | 19 33 | 0 13 | 11 40 | 1 19 | 20 21 | 1 24 | 20 15 | 0 40 | 22 25 | 0 1 | 21 21 | 1 43 | 21 15 | 21 11 | 17 7 | | n.a. |
| T 8 | 22 38 | 15 3 | 4 34 | 25 38 | 1 56 | 24 39 | 1 47 | 19 43 | 0 14 | 11 39 | 1 20 | 20 20 | 1 24 | 20 14 | 0 40 | 22 25 | 0 1 | 21 21 | 1 43 | 21 15 | 21 11 | 17 8 | | n.a. |
| F 9 | 22 45 | 11 8 | 5 2 | 25 37 | 1 55 | 24 31 | 1 48 | 19 53 | 0 14 | 11 38 | 1 20 | 20 19 | 1 23 | 20 13 | 0 40 | 22 25 | 0 1 | 21 21 | 1 43 | 21 15 | 21 10 | 17 10 | | n.a. |
| S 10 | 22 52 | 6 38 | 5 16 | 25 33 | 1 53 | 24 23 | 1 48 | 20 3 | 0 15 | 11 37 | 1 20 | 20 17 | 1 23 | 20 13 | 0 40 | 22 24 | 0 1 | 21 21 | 1 43 | 21 14 | 21 9 | 17 11 | | n.a. |
| S 11 | 22 58 | 1 42 | 5 13 | 25 27 | 1 51 | 24 13 | 1 48 | 20 13 | 0 16 | 11 36 | 1 21 | 20 16 | 1 23 | 20 12 | 0 40 | 22 24 | 0 1 | 21 22 | 1 43 | 21 14 | 21 9 | 17 12 | | n.a. |
| M12 | 23 4 | 3n27 | 4 52 | 25 20 | 1 48 | 24 3 | 1 48 | 20 23 | 0 16 | 11 35 | 1 21 | 20 14 | 1 23 | 20 11 | 0 40 | 22 24 | 0 1 | 21 22 | 1 43 | 21 14 | 21 8 | 17 14 | | n.a. |
| T 13 | 23 9 | 8 31 | 4 12 | 25 11 | 1 44 | 23 52 | 1 48 | 20 32 | 0 17 | 11 35 | 1 21 | 20 13 | 1 23 | 20 11 | 0 40 | 22 24 | 0 1 | 21 22 | 1 43 | 21 15 | 21 8 | 17 15 | | n.a. |
| W14 | 23 14 | 13 14 | 3 16 | 24 59 | 1 40 | 23 40 | 1 48 | 20 41 | 0 17 | 11 34 | 1 22 | 20 11 | 1 23 | 20 10 | 0 40 | 22 23 | 0 1 | 21 22 | 1 42 | 21 15 | 21 7 | 17 16 | | n.a. |
| T 15 | 23 19 | 17 14 | 2 7 | 24 47 | 1 35 | 23 28 | 1 47 | 20 50 | 0 18 | 11 33 | 1 22 | 20 10 | 1 23 | 20 9 | 0 40 | 22 23 | 0 1 | 21 22 | 1 42 | 21 15 | 21 6 | 17 18 | | n.a. |
| F 16 | 23 23 | 20 10 | 0 48 | 24 33 | 1 30 | 23 15 | 1 47 | 20 59 | 0 19 | 11 33 | 1 22 | 20 8 | 1 23 | 20 8 | 0 39 | 22 23 | 0 1 | 21 23 | 1 42 | 21 15 | 21 6 | 17 19 | | n.a. |
| S 17 | 23 27 | 21 43 | 0s34 | 24 17 | 1 24 | 23 2 | 1 47 | 21 8 | 0 19 | 11 33 | 1 23 | 20 7 | 1 23 | 20 8 | 0 39 | 22 23 | 0 1 | 21 23 | 1 42 | 21 15 | 21 5 | 17 20 | | n.a. |
| S 18 | 23 30 | 21 44 | 1 53 | 24 1 | 1 18 | 22 48 | 1 46 | 21 17 | 0 20 | 11 32 | 1 23 | 20 5 | 1 23 | 20 7 | 0 39 | 22 22 | 0 1 | 21 23 | 1 42 | 21 15 | 21 5 | 17 22 | | n.a. |
| M19 | 23 33 | 20 16 | 3 4 | 23 43 | 1 11 | 22 33 | 1 46 | 21 25 | 0 20 | 11 32 | 1 23 | 20 3 | 1 23 | 20 6 | 0 39 | 22 22 | 0 1 | 21 23 | 1 42 | 21 15 | 21 4 | 17 23 | | n.a. |
| T 20 | 23 36 | 17 33 | 4 1 | 23 24 | 1 4 | 22 18 | 1 45 | 21 33 | 0 21 | 11 32 | 1 24 | 20 2 | 1 23 | 20 5 | 0 39 | 22 22 | 0 1 | 21 23 | 1 42 | 21 14 | 21 3 | 17 24 | | n.a. |
| W21 | 23 38 | 13 54 | 4 43 | 23 4 | 0 56 | 22 2 | 1 44 | 21 41 | 0 22 | 11 32 | 1 24 | 20 0 | 1 23 | 20 5 | 0 39 | 22 21 | 0 1 | 21 24 | 1 42 | 21 14 | 21 3 | 17 25 | | n.a. |
| T 22 | 23 39 | 9 38 | 5 7 | 22 43 | 0 48 | 21 45 | 1 43 | 21 49 | 0 22 | 11 32 | 1 24 | 19 59 | 1 23 | 20 4 | 0 39 | 22 21 | 0 1 | 21 24 | 1 42 | 21 13 | 21 2 | 17 27 | | n.a. |
| F 23 | 23 41 | 5 4 | 5 15 | 22 21 | 0 40 | 21 28 | 1 42 | 21 57 | 0 23 | 11 32 | 1 25 | 19 57 | 1 23 | 20 3 | 0 39 | 22 21 | 0 1 | 21 24 | 1 42 | 21 13 | 21 2 | 17 28 | | n.a. |
| S 24 | 23 41 | 0 24 | 5 7 | 21 59 | 0 31 | 21 10 | 1 41 | 22 4 | 0 24 | 11 32 | 1 25 | 19 55 | 1 23 | 20 2 | 0 39 | 22 21 | 0 1 | 21 24 | 1 42 | 21 12 | 21 1 | 17 29 | | n.a. |
| S 25 | 23 42 | 4s 9 | 4 45 | 21 36 | 0 22 | 20 52 | 1 40 | 22 11 | 0 24 | 11 32 | 1 25 | 19 54 | 1 23 | 20 2 | 0 39 | 22 20 | 0 1 | 21 24 | 1 42 | 21 12 | 21 0 | 17 31 | | n.a. |
| M26 | 23 42 | 8 28 | 4 10 | 21 13 | 0 12 | 20 33 | 1 39 | 22 19 | 0 25 | 11 32 | 1 26 | 19 52 | 1 23 | 20 1 | 0 39 | 22 20 | 0 1 | 21 25 | 1 42 | 21 12 | 21 0 | 17 32 | | n.a. |
| T 27 | 23 42 | 12 24 | 3 25 | 20 49 | 0 2 | 20 13 | 1 38 | 22 25 | 0 25 | 11 32 | 1 26 | 19 50 | 1 23 | 20 0 | 0 39 | 22 20 | 0 1 | 21 25 | 1 42 | 21 13 | 20 59 | 17 33 | | n.a. |
| W28 | 23 41 | 15 50 | 2 32 | 20 25 | 0s 8 | 19 53 | 1 36 | 22 32 | 0 26 | 11 33 | 1 26 | 19 48 | 1 23 | 19 59 | 0 39 | 22 19 | 0 1 | 21 25 | 1 42 | 21 13 | 20 58 | 17 34 | | n.a. |
| T 29 | 23 40 | 18 37 | 1 32 | 20 1 | 0 18 | 19 33 | 1 35 | 22 39 | 0 27 | 11 33 | 1 26 | 19 47 | 1 23 | 19 58 | 0 39 | 22 19 | 0 1 | 21 25 | 1 42 | 21 13 | 20 58 | 17 36 | | n.a. |
| F 30 | 23n38 | 20s37 | 0s29 | 19n36 | 0s29 | 19n12 | 1n33 | 22n45 | 0n27 | 11s34 | 1s27 | 19n45 | 1n23 | 19n57 | 0n39 | 22n19 | 0n 1 | 21n25 | 1s42 | 21s13 | 20s57 | 17s37 | | n.a. |

Julian Day Number = 1701485.5, Delta T = 03h05m20s
Ecliptic obliquity = 23°42'02, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°49'02, Lahiri = - 4°42'01 Julian Calendar 1 June 55 BCE == Greg. Calendar 30 May 055 BCE

The year -54 astronomical counting style corresponds to year 055 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 55 BCE
# geocentric

## JULY 55 BCE (-54) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 24 29 | 5♋11'12 | 11♐ 1 | 2♌22 | 12♌ 1 | 11♊25 | 3°R48 | 8♌19 | 4♌39 | 19♋19 | 17♊33 | 4°R14 | 2♐47 | 13♏17 | n.a. | S 1 |
| S 2 | 18 28 26 | 6° 8'31 | 23° 9 | 3°20 | 13°11 | 12° 4 | 3♓47 | 8°26 | 4°42 | 19°22 | 17°35 | 4♐12 | 2°44 | 13°24 | n.a. | S 2 |
| M 3 | 18 32 22 | 7° 5'52 | 5♉29 | 4°15 | 14°22 | 12°43 | 3°46 | 8°32 | 4°46 | 19°24 | 17°36 | 4° 9 | 2°41 | 13°30 | n.a. | M 3 |
| T 4 | 18 36 19 | 8° 3'14 | 18° 3 | 5° 7 | 15°32 | 13°23 | 3°44 | 8°39 | 4°49 | 19°26 | 17°38 | 4° 5 | 2°37 | 13°37 | n.a. | T 4 |
| W 5 | 18 40 16 | 9° 0'37 | 0♒50 | 5°56 | 16°43 | 14° 2 | 3°43 | 8°46 | 4°53 | 19°28 | 17°39 | 4° 0 | 2°34 | 13°44 | n.a. | W 5 |
| T 6 | 18 44 12 | 9°58'00 | 13°51 | 6°41 | 17°53 | 14°41 | 3°41 | 8°53 | 4°56 | 19°30 | 17°40 | 3°54 | 2°31 | 13°50 | n.a. | T 6 |
| F 7 | 18 48 9 | 10°55'25 | 27° 5 | 7°23 | 19° 3 | 15°20 | 3°39 | 9° 0 | 5° 0 | 19°33 | 17°42 | 3°48 | 2°28 | 13°57 | n.a. | F 7 |
| S 8 | 18 52 5 | 11°52'52 | 10♓32 | 8° 1 | 20°14 | 15°59 | 3°37 | 9° 7 | 5° 3 | 19°35 | 17°43 | 3°44 | 2°25 | 14° 4 | n.a. | S 8 |
| S 9 | 18 56 2 | 12°50'19 | 24°12 | 8°35 | 21°24 | 16°38 | 3°34 | 9°14 | 5° 7 | 19°37 | 17°45 | 3°40 | 2°21 | 14°10 | n.a. | S 9 |
| M10 | 18 59 58 | 13°47'49 | 8♈ 3 | 9° 6 | 22°34 | 17°17 | 3°32 | 9°21 | 5°10 | 19°39 | 17°46 | 3°D39 | 2°18 | 14°17 | n.a. | M10 |
| T 11 | 19 3 55 | 14°45'19 | 22° 6 | 9°31 | 23°44 | 17°56 | 3°29 | 9°28 | 5°14 | 19°41 | 17°48 | 3°39 | 2°15 | 14°23 | n.a. | T 11 |
| W12 | 19 7 51 | 15°42'52 | 6♉19 | 9°53 | 24°54 | 18°35 | 3°26 | 9°35 | 5°17 | 19°44 | 17°49 | 3°40 | 2°12 | 14°30 | n.a. | W12 |
| T 13 | 19 11 48 | 16°40'26 | 20°40 | 10° 9 | 26° 3 | 19°14 | 3°23 | 9°42 | 5°21 | 19°46 | 17°50 | 3°41 | 2° 9 | 14°37 | n.a. | T 13 |
| F 14 | 19 15 45 | 17°38'01 | 5♊ 7 | 10°21 | 27°13 | 19°53 | 3°20 | 9°49 | 5°24 | 19°48 | 17°52 | 3°R42 | 2° 6 | 14°43 | n.a. | F 14 |
| S 15 | 19 19 41 | 18°35'38 | 19°37 | 10°27 | 28°23 | 20°32 | 3°16 | 9°56 | 5°28 | 19°50 | 17°53 | 3°41 | 2° 2 | 14°50 | n.a. | S 15 |
| S 16 | 19 23 38 | 19°33'17 | 4♋ 3 | 10°R29 | 29°33 | 21°10 | 3°12 | 10° 4 | 5°32 | 19°53 | 17°55 | 3°38 | 1°59 | 14°57 | n.a. | S 16 |
| M17 | 19 27 34 | 20°30'57 | 18°21 | 10°24 | 0♍42 | 21°49 | 3° 9 | 10°11 | 5°35 | 19°55 | 17°56 | 3°33 | 1°56 | 15° 3 | n.a. | M17 |
| T 18 | 19 31 31 | 21°28'38 | 2♌25 | 10°15 | 1°52 | 22°28 | 3° 5 | 10°18 | 5°39 | 19°57 | 17°57 | 3°26 | 1°53 | 15°10 | n.a. | T 18 |
| W19 | 19 35 27 | 22°26'21 | 16°11 | 9°59 | 3° 1 | 23° 6 | 3° 0 | 10°25 | 5°43 | 19°59 | 17°59 | 3°18 | 1°50 | 15°17 | n.a. | W19 |
| T 20 | 19 39 24 | 23°24'05 | 29°35 | 9°38 | 4°10 | 23°45 | 2°56 | 10°33 | 5°46 | 20° 2 | 18° 0 | 3° 9 | 1°47 | 15°23 | n.a. | T 20 |
| F 21 | 19 43 20 | 24°21'50 | 12♍36 | 9°11 | 5°19 | 24°23 | 2°51 | 10°40 | 5°50 | 20° 4 | 18° 1 | 3° 2 | 1°43 | 15°30 | n.a. | F 21 |
| S 22 | 19 47 17 | 25°19'37 | 25°16 | 8°39 | 6°29 | 25° 2 | 2°47 | 10°47 | 5°54 | 20° 6 | 18° 2 | 2°56 | 1°40 | 15°37 | n.a. | S 22 |
| S 23 | 19 51 14 | 26°17'25 | 7♎37 | 8° 2 | 7°38 | 25°40 | 2°42 | 10°55 | 5°58 | 20° 8 | 18° 4 | 2°52 | 1°37 | 15°43 | n.a. | S 23 |
| M24 | 19 55 10 | 27°15'14 | 19°42 | 7°20 | 8°46 | 26°19 | 2°37 | 11° 2 | 6° 1 | 20°10 | 18° 5 | 2°50 | 1°34 | 15°50 | n.a. | M24 |
| T 25 | 19 59 7 | 28°13'05 | 1♏37 | 6°34 | 9°55 | 26°57 | 2°31 | 11° 9 | 6° 5 | 20°13 | 18° 6 | 2°D50 | 1°31 | 15°57 | n.a. | T 25 |
| W26 | 20 3 3 | 29°10'56 | 13°26 | 5°45 | 11° 4 | 27°35 | 2°26 | 11°17 | 6° 9 | 20°15 | 18° 7 | 2°51 | 1°27 | 16° 3 | n.a. | W26 |
| T 27 | 20 7 0 | 0♌ 8'50 | 25°15 | 4°52 | 12°13 | 28°14 | 2°20 | 11°24 | 6°12 | 20°17 | 18° 9 | 2°52 | 1°24 | 16°10 | n.a. | T 27 |
| F 28 | 20 10 56 | 1° 6'44 | 7♐10 | 3°58 | 13°21 | 28°52 | 2°15 | 11°32 | 6°16 | 20°19 | 18°10 | 2°R52 | 1°21 | 16°17 | n.a. | F 28 |
| S 29 | 20 14 53 | 2° 4'41 | 19°14 | 3° 3 | 14°30 | 29°30 | 2° 9 | 11°39 | 6°20 | 20°21 | 18°11 | 2°50 | 1°18 | 16°23 | n.a. | S 29 |
| S 30 | 20 18 49 | 3° 2'38 | 1♉31 | 2° 9 | 15°38 | 0♋ 8 | 2° 3 | 11°46 | 6°24 | 20°24 | 18°12 | 2°47 | 1°15 | 16°30 | n.a. | S 30 |
| M31 | 20 22 46 | 4♌ 0'37 | 14♉ 4 | 1♌16 | 16♍46 | 0♋46 | 1♓57 | 11♌54 | 6♌27 | 20♋26 | 18♊13 | 2♐41 | 1♐12 | 16♏37 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23n36 | 21s44 | 0n37 | 19n12 | 0s40 | 18n51 | 1n32 | 22n51 | 0n28 | 11s34 | 1s27 | 19n43 | 1n23 | 19n57 | 0n39 | 22n19 | 0n 1 | 21n25 | 1s42 | 21s13 | 20s57 | 17s38 | | n.a. |
| S 2 | 23 33 | 21 50 | 1 42 | 18 47 | 0 51 | 18 29 | 1 30 | 22 57 | 0 28 | 11 35 | 1 27 | 19 41 | 1 23 | 19 56 | 0 39 | 22 18 | 0 1 | 21 26 | 1 42 | 21 13 | 20 56 | 17 39 | | n.a. |
| M 3 | 23 30 | 20 53 | 2 43 | 18 23 | 1 3 | 18 6 | 1 28 | 23 3 | 0 29 | 11 36 | 1 28 | 19 40 | 1 23 | 19 55 | 0 39 | 22 18 | 0 1 | 21 26 | 1 41 | 21 12 | 20 55 | 17 41 | | n.a. |
| T 4 | 23 27 | 18 53 | 3 37 | 17 59 | 1 15 | 17 43 | 1 26 | 23 9 | 0 30 | 11 37 | 1 28 | 19 38 | 1 23 | 19 54 | 0 39 | 22 18 | 0 1 | 21 26 | 1 41 | 21 12 | 20 55 | 17 42 | | n.a. |
| W 5 | 23 23 | 15 57 | 4 21 | 17 36 | 1 27 | 17 20 | 1 24 | 23 14 | 0 30 | 11 38 | 1 28 | 19 36 | 1 23 | 19 53 | 0 39 | 22 17 | 0 1 | 21 26 | 1 41 | 21 11 | 20 54 | 17 43 | | n.a. |
| T 6 | 23 19 | 12 11 | 4 52 | 17 13 | 1 39 | 16 56 | 1 22 | 23 19 | 0 31 | 11 39 | 1 29 | 19 34 | 1 23 | 19 52 | 0 39 | 22 17 | 0 1 | 21 26 | 1 41 | 21 10 | 20 53 | 17 44 | | n.a. |
| F 7 | 23 15 | 7 47 | 5 9 | 16 50 | 1 51 | 16 32 | 1 20 | 23 24 | 0 31 | 11 40 | 1 29 | 19 32 | 1 23 | 19 52 | 0 39 | 22 17 | 0 1 | 21 27 | 1 41 | 21 8 | 20 53 | 17 46 | | n.a. |
| S 8 | 23 10 | 2 56 | 5 9 | 16 29 | 2 3 | 16 8 | 1 18 | 23 29 | 0 32 | 11 41 | 1 29 | 19 30 | 1 23 | 19 51 | 0 39 | 22 16 | 0 1 | 21 27 | 1 41 | 21 8 | 20 52 | 17 47 | | n.a. |
| S 9 | 23 4 | 2n 7 | 4 51 | 16 8 | 2 16 | 15 43 | 1 15 | 23 34 | 0 33 | 11 42 | 1 30 | 19 28 | 1 23 | 19 50 | 0 39 | 22 16 | 0 1 | 21 27 | 1 41 | 21 7 | 20 52 | 17 48 | | n.a. |
| M10 | 22 59 | 7 9 | 4 17 | 15 48 | 2 28 | 15 18 | 1 13 | 23 38 | 0 33 | 11 43 | 1 30 | 19 27 | 1 23 | 19 49 | 0 39 | 22 16 | 0 1 | 21 27 | 1 41 | 21 7 | 20 51 | 17 49 | | n.a. |
| T 11 | 22 52 | 11 53 | 3 27 | 15 29 | 2 40 | 14 52 | 1 10 | 23 43 | 0 34 | 11 44 | 1 30 | 19 25 | 1 23 | 19 48 | 0 39 | 22 15 | 0 1 | 21 27 | 1 41 | 21 7 | 20 50 | 17 50 | | n.a. |
| W12 | 22 46 | 16 1 | 2 23 | 15 12 | 2 52 | 14 26 | 1 8 | 23 47 | 0 35 | 11 46 | 1 31 | 19 23 | 1 23 | 19 47 | 0 39 | 22 15 | 0 1 | 21 27 | 1 41 | 21 7 | 20 50 | 17 52 | | n.a. |
| T 13 | 22 39 | 19 14 | 1 10 | 14 56 | 3 4 | 13 59 | 1 5 | 23 51 | 0 35 | 11 47 | 1 31 | 19 21 | 1 23 | 19 46 | 0 39 | 22 15 | 0 1 | 21 28 | 1 41 | 21 7 | 20 49 | 17 53 | | n.a. |
| F 14 | 22 31 | 21 16 | 0s 8 | 14 42 | 3 16 | 13 33 | 1 2 | 23 54 | 0 36 | 11 49 | 1 31 | 19 19 | 1 23 | 19 45 | 0 39 | 22 15 | 0 1 | 21 28 | 1 41 | 21 7 | 20 48 | 17 54 | | n.a. |
| S 15 | 22 24 | 21 52 | 1 25 | 14 29 | 3 27 | 13 6 | 1 0 | 23 58 | 0 36 | 11 50 | 1 32 | 19 17 | 1 23 | 19 44 | 0 39 | 22 14 | 0 1 | 21 28 | 1 41 | 21 7 | 20 48 | 17 55 | | n.a. |
| S 16 | 22 15 | 21 2 | 2 37 | 14 18 | 3 38 | 12 38 | 0 57 | 24 1 | 0 37 | 11 52 | 1 32 | 19 15 | 1 23 | 19 44 | 0 39 | 22 14 | 0 1 | 21 28 | 1 41 | 21 6 | 20 47 | 17 56 | | n.a. |
| M17 | 22 7 | 18 50 | 3 38 | 14 9 | 3 49 | 12 11 | 0 54 | 24 4 | 0 38 | 11 53 | 1 32 | 19 13 | 1 23 | 19 43 | 0 39 | 22 14 | 0 1 | 21 28 | 1 41 | 21 5 | 20 46 | 17 58 | | n.a. |
| T 18 | 21 58 | 15 33 | 4 24 | 14 3 | 3 58 | 11 43 | 0 50 | 24 7 | 0 38 | 11 55 | 1 32 | 19 11 | 1 23 | 19 42 | 0 39 | 22 13 | 0 1 | 21 28 | 1 41 | 21 4 | 20 46 | 17 59 | | n.a. |
| W19 | 21 49 | 11 29 | 4 54 | 13 58 | 4 7 | 11 14 | 0 47 | 24 10 | 0 39 | 11 57 | 1 33 | 19 9 | 1 23 | 19 41 | 0 39 | 22 13 | 0 1 | 21 29 | 1 41 | 21 3 | 20 45 | 18 0 | | n.a. |
| T 20 | 21 39 | 6 57 | 5 7 | 13 56 | 4 15 | 10 46 | 0 44 | 24 12 | 0 39 | 11 59 | 1 33 | 19 7 | 1 23 | 19 40 | 0 39 | 22 13 | 0 1 | 21 29 | 1 41 | 21 1 | 20 45 | 18 1 | | n.a. |
| F 21 | 21 29 | 2 14 | 5 3 | 13 57 | 4 22 | 10 17 | 0 41 | 24 15 | 0 40 | 12 1 | 1 33 | 19 5 | 1 23 | 19 39 | 0 39 | 22 12 | 0 1 | 21 29 | 1 41 | 21 0 | 20 44 | 18 2 | | n.a. |
| S 22 | 21 18 | 2s27 | 4 45 | 14 0 | 4 27 | 9 48 | 0 37 | 24 17 | 0 41 | 12 3 | 1 34 | 19 3 | 1 23 | 19 38 | 0 39 | 22 12 | 0 1 | 21 29 | 1 41 | 20 58 | 20 43 | 18 3 | | n.a. |
| S 23 | 21 7 | 6 55 | 4 13 | 14 5 | 4 32 | 9 19 | 0 34 | 24 19 | 0 41 | 12 5 | 1 34 | 19 1 | 1 23 | 19 37 | 0 39 | 22 12 | 0 1 | 21 29 | 1 41 | 20 58 | 20 43 | 18 5 | | n.a. |
| M24 | 20 56 | 11 2 | 3 31 | 14 13 | 4 34 | 8 50 | 0 30 | 24 21 | 0 42 | 12 7 | 1 34 | 18 59 | 1 23 | 19 36 | 0 39 | 22 11 | 0 1 | 21 29 | 1 41 | 20 57 | 20 42 | 18 6 | | n.a. |
| T 25 | 20 45 | 14 39 | 2 40 | 14 23 | 4 35 | 8 20 | 0 26 | 24 22 | 0 42 | 12 9 | 1 34 | 18 57 | 1 23 | 19 35 | 0 39 | 22 11 | 0 1 | 21 29 | 1 41 | 20 57 | 20 41 | 18 7 | | n.a. |
| W26 | 20 33 | 17 40 | 1 43 | 14 36 | 4 34 | 7 51 | 0 23 | 24 24 | 0 43 | 12 11 | 1 35 | 18 55 | 1 24 | 19 34 | 0 39 | 22 11 | 0 1 | 21 30 | 1 41 | 20 57 | 20 41 | 18 8 | | n.a. |
| T 27 | 20 20 | 19 57 | 0 41 | 14 52 | 4 32 | 7 21 | 0 19 | 24 25 | 0 44 | 12 14 | 1 35 | 18 53 | 1 24 | 19 33 | 0 39 | 22 10 | 0 1 | 21 30 | 1 41 | 20 58 | 20 40 | 18 9 | | n.a. |
| F 28 | 20 8 | 21 22 | 0n23 | 15 9 | 4 27 | 6 51 | 0 15 | 24 26 | 0 44 | 12 16 | 1 35 | 18 51 | 1 24 | 19 32 | 0 39 | 22 10 | 0 1 | 21 30 | 1 41 | 20 58 | 20 39 | 18 10 | | n.a. |
| S 29 | 19 55 | 21 49 | 1 27 | 15 28 | 4 21 | 6 20 | 0 11 | 24 27 | 0 45 | 12 18 | 1 35 | 18 49 | 1 24 | 19 31 | 0 39 | 22 10 | 0 1 | 21 30 | 1 40 | 20 57 | 20 39 | 18 11 | | n.a. |
| S 30 | 19 41 | 21 14 | 2 27 | 15 48 | 4 12 | 5 50 | 0 7 | 24 27 | 0 45 | 12 21 | 1 36 | 18 47 | 1 24 | 19 31 | 0 39 | 22 9 | 0 1 | 21 30 | 1 40 | 20 57 | 20 38 | 18 12 | | n.a. |
| M31 | 19n28 | 19s36 | 3n22 | 16n10 | 4s 2 | 5n20 | 0n 3 | 24n28 | 0n46 | 12s23 | 1s36 | 18n45 | 1n24 | 19n30 | 0n39 | 22n 9 | 0n 1 | 21n30 | 1s40 | 20s55 | 20s37 | 18s14 | | n.a. |

Julian Day Number = 1701515.5, Delta T = 03h05m19s
Ecliptic obliquity = 23°42'01, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°48'58, Lahiri = - 4°41'57 Julian Calendar 1 July 55 BCE == Greg. Calendar 29 June 055 BCE

The year -54 astronomical counting style corresponds to year 055 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 55 BCE
# geocentric

## AUGUST 55 BCE (-54) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 26 43 | 4♌58'38 | 26♉55 | 0°R25 | 17♍54 | 1♋25 | 1°R51 | 12♌ 1 | 6♌31 | 20♋28 | 18♊14 | 2°R32 | 1♐ 8 | 16♏43 | n.a. | T 1 |
| W 2 | 20 30 39 | 5°56'41 | 10♒ 4 | 29♋39 | 19° 2 | 2° 3 | 1♓44 | 12° 9 | 6°35 | 20°30 | 18°16 | 2♐22 | 1° 5 | 16°50 | n.a. | W 2 |
| T 3 | 20 34 36 | 6°54'45 | 23°29 | 28°57 | 20°10 | 2°41 | 1°38 | 12°16 | 6°39 | 20°32 | 18°17 | 2°12 | 1° 2 | 16°56 | n.a. | T 3 |
| F 4 | 20 38 32 | 7°52'51 | 7♓ 7 | 28°21 | 21°17 | 3°19 | 1°31 | 12°24 | 6°42 | 20°34 | 18°18 | 2° 1 | 0°59 | 17° 3 | n.a. | F 4 |
| S 5 | 20 42 29 | 8°50'59 | 20°57 | 27°52 | 22°25 | 3°56 | 1°24 | 12°31 | 6°46 | 20°37 | 18°19 | 1°52 | 0°56 | 17°10 | n.a. | S 5 |
| S 6 | 20 46 25 | 9°49'09 | 4♈54 | 27°30 | 23°32 | 4°34 | 1°17 | 12°39 | 6°50 | 20°39 | 18°20 | 1°46 | 0°53 | 17°16 | n.a. | S 6 |
| M 7 | 20 50 22 | 10°47'21 | 18°56 | 27°16 | 24°40 | 5°12 | 1°10 | 12°46 | 6°54 | 20°41 | 18°21 | 1°41 | 0°49 | 17°23 | n.a. | M 7 |
| T 8 | 20 54 18 | 11°45'36 | 3♉ 2 | 27°D11 | 25°47 | 5°50 | 1° 3 | 12°54 | 6°57 | 20°43 | 18°22 | 1°40 | 0°46 | 17°30 | n.a. | T 8 |
| W 9 | 20 58 15 | 12°43'52 | 17° 8 | 27°14 | 26°54 | 6°28 | 0°56 | 13° 1 | 7° 1 | 20°45 | 18°23 | 1°D39 | 0°43 | 17°36 | n.a. | W 9 |
| T 10 | 21 2 12 | 13°42'11 | 1♊16 | 27°27 | 28° 1 | 7° 5 | 0°49 | 13° 9 | 7° 5 | 20°47 | 18°24 | 1°R40 | 0°40 | 17°43 | n.a. | T 10 |
| F 11 | 21 6 8 | 14°40'32 | 15°23 | 27°48 | 29° 7 | 7°43 | 0°42 | 13°16 | 7° 9 | 20°49 | 18°25 | 1°39 | 0°37 | 17°50 | n.a. | F 11 |
| S 12 | 21 10 5 | 15°38'55 | 29°28 | 28°18 | 0♎14 | 8°21 | 0°34 | 13°24 | 7°12 | 20°51 | 18°26 | 1°37 | 0°33 | 17°56 | n.a. | S 12 |
| S 13 | 21 14 1 | 16°37'21 | 13♋29 | 28°56 | 1°20 | 8°58 | 0°27 | 13°31 | 7°16 | 20°53 | 18°27 | 1°31 | 0°30 | 18° 3 | n.a. | S 13 |
| M14 | 21 17 58 | 17°35'48 | 27°23 | 29°43 | 2°27 | 9°36 | 0°19 | 13°39 | 7°20 | 20°55 | 18°28 | 1°23 | 0°27 | 18°10 | n.a. | M14 |
| T 15 | 21 21 54 | 18°34'18 | 11♌ 6 | 0♌38 | 3°33 | 10°13 | 0°11 | 13°46 | 7°24 | 20°57 | 18°28 | 1°13 | 0°24 | 18°16 | n.a. | T 15 |
| W16 | 21 25 51 | 19°32'49 | 24°34 | 1°40 | 4°39 | 10°51 | 0° 4 | 13°54 | 7°27 | 20°59 | 18°29 | 1° 1 | 0°21 | 18°23 | n.a. | W16 |
| T 17 | 21 29 47 | 20°31'23 | 7♍46 | 2°49 | 5°45 | 11°28 | 29♒56 | 14° 1 | 7°31 | 21° 1 | 18°30 | 0°48 | 0°18 | 18°30 | n.a. | T 17 |
| F 18 | 21 33 44 | 21°29'58 | 20°39 | 4° 4 | 6°50 | 12° 6 | 29°48 | 14° 9 | 7°35 | 21° 3 | 18°31 | 0°36 | 0°14 | 18°36 | n.a. | F 18 |
| S 19 | 21 37 41 | 22°28'36 | 3♎14 | 5°25 | 7°56 | 12°43 | 29°40 | 14°16 | 7°38 | 21° 5 | 18°32 | 0°26 | 0°11 | 18°43 | n.a. | S 19 |
| S 20 | 21 41 37 | 23°27'15 | 15°32 | 6°51 | 9° 1 | 13°20 | 29°32 | 14°24 | 7°42 | 21° 7 | 18°33 | 0°19 | 0° 8 | 18°49 | n.a. | S 20 |
| M21 | 21 45 34 | 24°25'56 | 27°36 | 8°22 | 10° 6 | 13°58 | 29°24 | 14°31 | 7°46 | 21° 9 | 18°33 | 0°14 | 0° 5 | 18°56 | n.a. | M21 |
| T 22 | 21 49 30 | 25°24'38 | 9♏29 | 9°57 | 11°11 | 14°35 | 29°16 | 14°39 | 7°49 | 21°11 | 18°34 | 0°12 | 0° 2 | 19° 3 | n.a. | T 22 |
| W23 | 21 53 27 | 26°23'23 | 21°18 | 11°35 | 12°16 | 15°12 | 29° 8 | 14°46 | 7°53 | 21°13 | 18°35 | 0°11 | 29♏59 | 19° 9 | n.a. | W23 |
| T 24 | 21 57 23 | 27°22'10 | 3♐ 7 | 13°16 | 13°20 | 15°49 | 29° 0 | 14°54 | 7°56 | 21°15 | 18°35 | 0°11 | 29°55 | 19°16 | n.a. | T 24 |
| F 25 | 22 1 20 | 28°20'58 | 15° 1 | 14°59 | 14°24 | 16°26 | 28°52 | 15° 1 | 8° 0 | 21°17 | 18°36 | 0°10 | 29°52 | 19°23 | n.a. | F 25 |
| S 26 | 22 5 16 | 29°19'48 | 27° 7 | 16°44 | 15°28 | 17° 3 | 28°44 | 15° 8 | 8° 4 | 21°19 | 18°37 | 0° 8 | 29°49 | 19°29 | n.a. | S 26 |
| S 27 | 22 9 13 | 0♑18'40 | 9♉29 | 18°31 | 16°32 | 17°40 | 28°36 | 15°16 | 8° 7 | 21°21 | 18°37 | 0° 4 | 29°46 | 19°36 | n.a. | S 27 |
| M28 | 22 13 9 | 1°17'34 | 22°10 | 20°18 | 17°36 | 18°17 | 28°28 | 15°23 | 8°11 | 21°22 | 18°38 | 29♏57 | 29°43 | 19°43 | n.a. | M28 |
| T 29 | 22 17 6 | 2°16'30 | 5♒14 | 22° 7 | 18°39 | 18°54 | 28°20 | 15°30 | 8°14 | 21°24 | 18°39 | 29°48 | 29°39 | 19°49 | n.a. | T 29 |
| W30 | 22 21 3 | 3°15'28 | 18°40 | 23°56 | 19°42 | 19°31 | 28°12 | 15°38 | 8°18 | 21°26 | 18°39 | 29°36 | 29°36 | 19°56 | n.a. | W30 |
| T 31 | 22 24 59 | 4♑14'28 | 2♓27 | 25♌45 | 20♎45 | 20♋ 8 | 28♒ 4 | 15♌45 | 8♌21 | 21♋28 | 18♊40 | 29♏24 | 29♏33 | 20♏ 3 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| T 1 | 19n14 | 16s57 | 4n 7 | 16n32 | 3s50 | 4n49 | 0s 1 | 24n28 | 0n47 | 12s26 | 1s36 | 18n43 | 1n24 | 19n29 | 0n39 | 22n 9 | 0n 1 | 21n30 | 1s40 | 20s54 | 20s37 | 18s15 | | | n.a. |
| W 2 | 18 59 | 13 24 | 4 41 | 16 56 | 3 36 | 4 18 | 0 5 | 24 28 | 0 47 | 12 28 | 1 36 | 18 41 | 1 24 | 19 28 | 0 39 | 22 8 | 0 1 | 21 31 | 1 40 | 20 52 | 20 36 | 18 16 | | | n.a. |
| T 3 | 18 45 | 9 7 | 5 0 | 17 19 | 3 21 | 3 47 | 0 10 | 24 28 | 0 48 | 12 31 | 1 37 | 18 39 | 1 24 | 19 27 | 0 39 | 22 8 | 0 1 | 21 31 | 1 40 | 20 50 | 20 35 | 18 17 | | | n.a. |
| F 4 | 18 30 | 4 19 | 5 2 | 17 42 | 3 5 | 3 17 | 0 14 | 24 28 | 0 48 | 12 33 | 1 37 | 18 37 | 1 24 | 19 26 | 0 39 | 22 8 | 0 2 | 21 31 | 1 40 | 20 48 | 20 35 | 18 18 | | | n.a. |
| S 5 | 18 15 | 0n46 | 4 47 | 18 4 | 2 48 | 2 46 | 0 18 | 24 28 | 0 49 | 12 36 | 1 37 | 18 34 | 1 24 | 19 25 | 0 39 | 22 8 | 0 2 | 21 31 | 1 40 | 20 46 | 20 34 | 18 19 | | | n.a. |
| S 6 | 17 59 | 5 51 | 4 14 | 18 26 | 2 30 | 2 15 | 0 23 | 24 27 | 0 50 | 12 39 | 1 37 | 18 32 | 1 24 | 19 24 | 0 39 | 22 7 | 0 2 | 21 31 | 1 40 | 20 44 | 20 33 | 18 20 | | | n.a. |
| M 7 | 17 43 | 10 40 | 3 27 | 18 47 | 2 12 | 1 44 | 0 27 | 24 26 | 0 50 | 12 41 | 1 37 | 18 30 | 1 24 | 19 23 | 0 39 | 22 7 | 0 2 | 21 31 | 1 40 | 20 44 | 20 33 | 18 21 | | | n.a. |
| T 8 | 17 27 | 14 56 | 2 26 | 19 6 | 1 53 | 1 13 | 0 32 | 24 25 | 0 51 | 12 44 | 1 38 | 18 28 | 1 24 | 19 22 | 0 39 | 22 7 | 0 2 | 21 31 | 1 40 | 20 43 | 20 32 | 18 22 | | | n.a. |
| W 9 | 17 10 | 18 21 | 1 16 | 19 23 | 1 35 | 0 41 | 0 36 | 24 24 | 0 52 | 12 47 | 1 38 | 18 26 | 1 24 | 19 21 | 0 39 | 22 6 | 0 2 | 21 31 | 1 40 | 20 43 | 20 31 | 18 23 | | | n.a. |
| T 10 | 16 54 | 20 40 | 0 2 | 19 39 | 1 17 | 0 10 | 0 41 | 24 23 | 0 52 | 12 50 | 1 38 | 18 24 | 1 24 | 19 20 | 0 39 | 22 6 | 0 2 | 21 31 | 1 40 | 20 43 | 20 31 | 18 24 | | | n.a. |
| F 11 | 16 37 | 21 42 | 1s12 | 19 52 | 0 59 | 0s21 | 0 46 | 24 21 | 0 53 | 12 52 | 1 38 | 18 22 | 1 24 | 19 19 | 0 39 | 22 6 | 0 2 | 21 32 | 1 40 | 20 43 | 20 30 | 18 26 | | | n.a. |
| S 12 | 16 19 | 21 20 | 2 22 | 20 3 | 0 41 | 0 52 | 0 50 | 24 19 | 0 53 | 12 55 | 1 38 | 18 20 | 1 24 | 19 18 | 0 39 | 22 5 | 0 2 | 21 32 | 1 40 | 20 42 | 20 29 | 18 27 | | | n.a. |
| S 13 | 16 2 | 19 39 | 3 22 | 20 12 | 0 24 | 1 23 | 0 55 | 24 17 | 0 54 | 12 58 | 1 38 | 18 18 | 1 25 | 19 17 | 0 39 | 22 5 | 0 2 | 21 32 | 1 40 | 20 41 | 20 29 | 18 28 | | | n.a. |
| M14 | 15 44 | 16 49 | 4 10 | 20 18 | 0 8 | 1 54 | 1 0 | 24 15 | 0 55 | 13 1 | 1 38 | 18 15 | 1 25 | 19 16 | 0 39 | 22 5 | 0 2 | 21 32 | 1 40 | 20 40 | 20 28 | 18 29 | | | n.a. |
| T 15 | 15 25 | 13 6 | 4 43 | 20 21 | 0n 7 | 2 25 | 1 5 | 24 13 | 0 55 | 13 4 | 1 39 | 18 13 | 1 25 | 19 15 | 0 39 | 22 4 | 0 2 | 21 32 | 1 40 | 20 38 | 20 27 | 18 30 | | | n.a. |
| W16 | 15 7 | 8 47 | 4 59 | 20 21 | 0 21 | 2 56 | 1 10 | 24 11 | 0 56 | 13 7 | 1 39 | 18 11 | 1 25 | 19 14 | 0 39 | 22 4 | 0 2 | 21 32 | 1 40 | 20 35 | 20 27 | 18 31 | | | n.a. |
| T 17 | 14 48 | 4 8 | 4 59 | 20 18 | 0 35 | 3 27 | 1 15 | 24 8 | 0 56 | 13 10 | 1 39 | 18 9 | 1 25 | 19 13 | 0 39 | 22 4 | 0 2 | 21 32 | 1 40 | 20 32 | 20 26 | 18 32 | | | n.a. |
| F 18 | 14 29 | 0s35 | 4 43 | 20 12 | 0 47 | 3 58 | 1 20 | 24 5 | 0 57 | 13 12 | 1 39 | 18 7 | 1 25 | 19 12 | 0 39 | 22 4 | 0 2 | 21 32 | 1 40 | 20 30 | 20 25 | 18 33 | | | n.a. |
| S 19 | 14 10 | 5 10 | 4 14 | 20 3 | 0 58 | 4 28 | 1 25 | 24 2 | 0 58 | 13 15 | 1 39 | 18 5 | 1 25 | 19 12 | 0 39 | 22 3 | 0 2 | 21 32 | 1 40 | 20 28 | 20 25 | 18 34 | | | n.a. |
| S 20 | 13 51 | 9 27 | 3 33 | 19 51 | 1 8 | 4 59 | 1 30 | 23 59 | 0 58 | 13 18 | 1 39 | 18 3 | 1 25 | 19 11 | 0 39 | 22 3 | 0 2 | 21 32 | 1 40 | 20 26 | 20 24 | 18 35 | | | n.a. |
| M21 | 13 31 | 13 16 | 2 44 | 19 36 | 1 17 | 5 30 | 1 35 | 23 56 | 0 59 | 13 21 | 1 39 | 18 1 | 1 25 | 19 10 | 0 39 | 22 3 | 0 2 | 21 33 | 1 40 | 20 25 | 20 23 | 18 36 | | | n.a. |
| T 22 | 13 11 | 16 30 | 1 47 | 19 18 | 1 24 | 6 0 | 1 40 | 23 53 | 0 59 | 13 24 | 1 39 | 17 59 | 1 25 | 19 9 | 0 39 | 22 2 | 0 2 | 21 33 | 1 40 | 20 25 | 20 23 | 18 37 | | | n.a. |
| W23 | 12 51 | 19 2 | 0 47 | 18 57 | 1 31 | 6 30 | 1 45 | 23 49 | 1 0 | 13 27 | 1 39 | 17 56 | 1 25 | 19 8 | 0 39 | 22 2 | 0 2 | 21 33 | 1 40 | 20 25 | 20 22 | 18 38 | | | n.a. |
| T 24 | 12 31 | 20 45 | 0n16 | 18 34 | 1 37 | 7 0 | 1 50 | 23 45 | 1 1 | 13 30 | 1 40 | 17 54 | 1 26 | 19 7 | 0 39 | 22 2 | 0 2 | 21 33 | 1 40 | 20 25 | 20 21 | 18 39 | | | n.a. |
| F 25 | 12 11 | 21 34 | 1 18 | 18 8 | 1 42 | 7 30 | 1 55 | 23 41 | 1 1 | 13 33 | 1 40 | 17 52 | 1 26 | 19 6 | 0 39 | 22 2 | 0 2 | 21 33 | 1 40 | 20 24 | 20 21 | 18 40 | | | n.a. |
| S 26 | 11 50 | 21 23 | 2 18 | 17 40 | 1 45 | 8 0 | 2 0 | 23 37 | 1 2 | 13 36 | 1 40 | 17 50 | 1 26 | 19 5 | 0 39 | 22 1 | 0 2 | 21 33 | 1 40 | 20 24 | 20 20 | 18 41 | | | n.a. |
| S 27 | 11 29 | 20 10 | 3 12 | 17 9 | 1 48 | 8 30 | 2 6 | 23 33 | 1 3 | 13 39 | 1 40 | 17 48 | 1 26 | 19 4 | 0 39 | 22 1 | 0 2 | 21 33 | 1 40 | 20 23 | 20 19 | 18 42 | | | n.a. |
| M28 | 11 8 | 17 56 | 3 59 | 16 37 | 1 50 | 8 59 | 2 11 | 23 29 | 1 3 | 13 41 | 1 40 | 17 46 | 1 26 | 19 3 | 0 39 | 22 1 | 0 2 | 21 33 | 1 40 | 20 22 | 20 19 | 18 43 | | | n.a. |
| T 29 | 10 47 | 14 44 | 4 34 | 16 3 | 1 51 | 9 28 | 2 16 | 23 24 | 1 4 | 13 44 | 1 40 | 17 44 | 1 26 | 19 2 | 0 39 | 22 0 | 0 2 | 21 33 | 1 40 | 20 20 | 20 18 | 18 44 | | | n.a. |
| W30 | 10 25 | 10 43 | 4 55 | 15 27 | 1 52 | 9 57 | 2 21 | 23 19 | 1 4 | 13 47 | 1 40 | 17 42 | 1 26 | 19 1 | 0 39 | 22 0 | 0 2 | 21 33 | 1 40 | 20 17 | 20 17 | 18 45 | | | n.a. |
| T 31 | 10n 4 | 6s 3 | 5n 0 | 14n49 | 1n51 | 10s26 | 2s26 | 23n15 | 1n 5 | 13s50 | 1s40 | 17n40 | 1n26 | 19n 1 | 0n39 | 22n 0 | 0n 2 | 21n33 | 1s40 | 20s15 | 20s16 | 18s46 | | | n.a. |

Julian Day Number = 1701546.5, Delta T = 03h05m19s
Ecliptic obliquity = 23°42'01, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°48'54, Lahiri = - 4°41'53 Julian Calendar 1 Aug. 55 BCE == Greg. Calendar 30 July 055 BCE

The year -54 astronomical counting style corresponds to year 055 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 55 BCE
# geocentric

## SEPTEMBER 55 BCE (-54) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 22 28 56 | 5♍13'29 | 16♓32 | 27♌34 | 21♎47 | 20♋45 | 27°R56 | 15♌52 | 8♌25 | 21♋29 | 18♊40 | 29°R12 | 29♏30 | 20♏ 9 | n.a. | F 1 |
| S 2 | 22 32 52 | 6°12'33 | 0♈48 | 29°23 | 22°49 | 21°21 | 27♒48 | 15°59 | 8°28 | 21°31 | 18°41 | 29♏ 2 | 29°27 | 20°16 | n.a. | S 2 |
| S 3 | 22 36 49 | 7°11'40 | 15°10 | 1♍12 | 23°51 | 21°58 | 27°40 | 16° 7 | 8°32 | 21°33 | 18°41 | 28°54 | 29°24 | 20°23 | n.a. | S 3 |
| M 4 | 22 40 45 | 8°10'48 | 29°34 | 3° 1 | 24°53 | 22°35 | 27°33 | 16°14 | 8°35 | 21°35 | 18°42 | 28°49 | 29°20 | 20°29 | n.a. | M 4 |
| T 5 | 22 44 42 | 9° 9'59 | 13♉54 | 4°49 | 25°54 | 23°11 | 27°25 | 16°21 | 8°38 | 21°36 | 18°42 | 28°46 | 29°17 | 20°36 | n.a. | T 5 |
| W 6 | 22 48 38 | 10° 9'13 | 28° 7 | 6°36 | 26°55 | 23°48 | 27°17 | 16°28 | 8°42 | 21°38 | 18°42 | 28°D46 | 29°14 | 20°42 | n.a. | W 6 |
| T 7 | 22 52 35 | 11° 8'29 | 12♊12 | 8°23 | 27°56 | 24°24 | 27°10 | 16°35 | 8°45 | 21°39 | 18°43 | 28°R46 | 29°11 | 20°49 | n.a. | T 7 |
| F 8 | 22 56 32 | 12° 7'48 | 26° 9 | 10° 9 | 28°56 | 25° 1 | 27° 2 | 16°42 | 8°48 | 21°41 | 18°43 | 28°45 | 29° 8 | 20°56 | n.a. | F 8 |
| S 9 | 23 0 28 | 13° 7'09 | 9♋57 | 11°54 | 29°56 | 25°37 | 26°55 | 16°49 | 8°52 | 21°43 | 18°44 | 28°43 | 29° 4 | 21° 2 | n.a. | S 9 |
| S 10 | 23 4 25 | 14° 6'32 | 23°36 | 13°39 | 0♏56 | 26°13 | 26°48 | 16°56 | 8°55 | 21°44 | 18°44 | 28°37 | 29° 1 | 21° 9 | n.a. | S 10 |
| M11 | 23 8 21 | 15° 5'58 | 7♌ 5 | 15°23 | 1°55 | 26°50 | 26°40 | 17° 3 | 8°58 | 21°46 | 18°44 | 28°30 | 28°58 | 21°16 | n.a. | M11 |
| T 12 | 23 12 18 | 16° 5'26 | 20°23 | 17° 7 | 2°54 | 27°26 | 26°33 | 17°10 | 9° 1 | 21°47 | 18°44 | 28°19 | 28°55 | 21°22 | n.a. | T 12 |
| W13 | 23 16 14 | 17° 4'56 | 3♍30 | 18°49 | 3°52 | 28° 2 | 26°26 | 17°17 | 9° 4 | 21°48 | 18°45 | 28° 7 | 28°52 | 21°29 | n.a. | W13 |
| T 14 | 23 20 11 | 18° 4'28 | 16°23 | 20°31 | 4°50 | 28°38 | 26°19 | 17°24 | 9° 8 | 21°50 | 18°45 | 27°55 | 28°49 | 21°36 | n.a. | T 14 |
| F 15 | 23 24 7 | 19° 4'02 | 29° 1 | 22°12 | 5°48 | 29°14 | 26°12 | 17°30 | 9°11 | 21°51 | 18°45 | 27°43 | 28°45 | 21°42 | n.a. | F 15 |
| S 16 | 23 28 4 | 20° 3'39 | 11♎25 | 23°53 | 6°45 | 29°51 | 26° 6 | 17°37 | 9°14 | 21°53 | 18°45 | 27°33 | 28°42 | 21°49 | n.a. | S 16 |
| S 17 | 23 32 0 | 21° 3'18 | 23°36 | 25°32 | 7°42 | 0♌27 | 25°59 | 17°44 | 9°17 | 21°54 | 18°45 | 27°25 | 28°39 | 21°56 | n.a. | S 17 |
| M18 | 23 35 57 | 22° 2'58 | 5♏36 | 27°11 | 8°38 | 1° 2 | 25°53 | 17°51 | 9°20 | 21°55 | 18°45 | 27°20 | 28°36 | 22° 2 | n.a. | M18 |
| T 19 | 23 39 54 | 23° 2'41 | 17°27 | 28°50 | 9°34 | 1°38 | 25°46 | 17°57 | 9°23 | 21°57 | 18°45 | 27°18 | 28°33 | 22° 9 | n.a. | T 19 |
| W20 | 23 43 50 | 24° 2'25 | 29°14 | 0♎27 | 10°29 | 2°14 | 25°40 | 18° 4 | 9°26 | 21°58 | 18°46 | 27°D17 | 28°30 | 22°16 | n.a. | W20 |
| T 21 | 23 47 47 | 25° 2'11 | 11♐ 1 | 2° 5 | 11°23 | 2°50 | 25°34 | 18°10 | 9°29 | 21°59 | 18°46 | 27°18 | 28°26 | 22°22 | n.a. | T 21 |
| F 22 | 23 51 43 | 26° 1'59 | 22°54 | 3°41 | 12°18 | 3°26 | 25°28 | 18°17 | 9°32 | 22° 0 | 18°R46 | 27°R18 | 28°23 | 22°29 | n.a. | F 22 |
| S 23 | 23 55 40 | 27° 1'49 | 4♑58 | 5°17 | 13°11 | 4° 1 | 25°22 | 18°23 | 9°34 | 22° 1 | 18°46 | 27°18 | 28°20 | 22°35 | n.a. | S 23 |
| S 24 | 23 59 36 | 28° 1'41 | 17°19 | 6°52 | 14° 4 | 4°37 | 25°17 | 18°30 | 9°37 | 22° 3 | 18°46 | 27°16 | 28°17 | 22°42 | n.a. | S 24 |
| M25 | 0 3 33 | 29° 1'34 | 0♒ 1 | 8°27 | 14°56 | 5°12 | 25°11 | 18°36 | 9°40 | 22° 4 | 18°45 | 27°12 | 28°14 | 22°49 | n.a. | M25 |
| T 26 | 0 7 29 | 0♎ 1'29 | 13° 8 | 10° 1 | 15°48 | 5°48 | 25° 6 | 18°42 | 9°43 | 22° 5 | 18°45 | 27° 5 | 28°10 | 22°55 | n.a. | T 26 |
| W27 | 0 11 26 | 1° 1'26 | 26°41 | 11°35 | 16°39 | 6°23 | 25° 1 | 18°48 | 9°45 | 22° 6 | 18°45 | 26°57 | 28° 7 | 23° 2 | n.a. | W27 |
| T 28 | 0 15 23 | 2° 1'25 | 10♓41 | 13° 8 | 17°29 | 6°59 | 24°56 | 18°55 | 9°48 | 22° 7 | 18°45 | 26°48 | 28° 4 | 23° 9 | n.a. | T 28 |
| F 29 | 0 19 19 | 3° 1'25 | 25° 3 | 14°40 | 18°18 | 7°34 | 24°51 | 19° 1 | 9°51 | 22° 8 | 18°45 | 26°39 | 28° 1 | 23°15 | n.a. | F 29 |
| S 30 | 0 23 16 | 4♎ 1'28 | 9♈42 | 16♎12 | 19♏ 7 | 8♌ 9 | 24♒47 | 19♌ 7 | 9♌53 | 22♋ 9 | 18♊45 | 26♏31 | 27♏58 | 23♏22 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 9n42 | 0s58 | 4n47 | 14n11 | 1n51 | 10s55 | 2s31 | 23n10 | 1n 6 | 13s53 | 1s40 | 17n38 | 1n26 | 19n 0 | 0n40 | 22n 0 | 0n 2 | 21n33 | 1s40 | 20s12 | 20s16 | 18s47 | | n.a. |
| S 2 | 9 20 | 4n14 | 4 16 | 13 31 | 1 49 | 11 23 | 2 36 | 23 4 | 1 6 | 13 55 | 1 40 | 17 35 | 1 26 | 18 59 | 0 40 | 21 59 | 0 2 | 21 33 | 1 40 | 20 10 | 20 15 | 18 48 | | n.a. |
| S 3 | 8 58 | 9 15 | 3 29 | 12 50 | 1 47 | 11 51 | 2 42 | 22 59 | 1 7 | 13 58 | 1 40 | 17 33 | 1 27 | 18 58 | 0 40 | 21 59 | 0 2 | 21 34 | 1 40 | 20 8 | 20 14 | 18 49 | | n.a. |
| M 4 | 8 36 | 13 44 | 2 28 | 12 8 | 1 44 | 12 19 | 2 47 | 22 54 | 1 7 | 14 1 | 1 40 | 17 31 | 1 27 | 18 57 | 0 40 | 21 59 | 0 2 | 21 34 | 1 40 | 20 7 | 20 14 | 18 50 | | n.a. |
| T 5 | 8 13 | 17 25 | 1 18 | 11 25 | 1 41 | 12 46 | 2 52 | 22 48 | 1 8 | 14 4 | 1 40 | 17 29 | 1 27 | 18 56 | 0 40 | 21 59 | 0 2 | 21 34 | 1 40 | 20 6 | 20 13 | 18 51 | | n.a. |
| W 6 | 7 51 | 20 1 | 0 3 | 10 42 | 1 38 | 13 14 | 2 57 | 22 42 | 1 9 | 14 6 | 1 40 | 17 27 | 1 27 | 18 55 | 0 40 | 21 58 | 0 2 | 21 34 | 1 40 | 20 6 | 20 12 | 18 52 | | n.a. |
| T 7 | 7 28 | 21 20 | 1s11 | 9 58 | 1 34 | 13 40 | 3 2 | 22 37 | 1 9 | 14 9 | 1 40 | 17 25 | 1 27 | 18 54 | 0 40 | 21 58 | 0 2 | 21 34 | 1 40 | 20 6 | 20 12 | 18 53 | | n.a. |
| F 8 | 7 5 | 21 19 | 2 20 | 9 14 | 1 30 | 14 7 | 3 7 | 22 31 | 1 10 | 14 11 | 1 40 | 17 23 | 1 27 | 18 54 | 0 40 | 21 58 | 0 2 | 21 34 | 1 40 | 20 6 | 20 11 | 18 54 | | n.a. |
| S 9 | 6 42 | 20 0 | 3 20 | 8 29 | 1 25 | 14 33 | 3 12 | 22 24 | 1 11 | 14 14 | 1 40 | 17 21 | 1 27 | 18 53 | 0 40 | 21 58 | 0 2 | 21 34 | 1 39 | 20 5 | 20 10 | 18 54 | | n.a. |
| S 10 | 6 19 | 17 33 | 4 8 | 7 44 | 1 21 | 14 59 | 3 17 | 22 18 | 1 11 | 14 16 | 1 39 | 17 19 | 1 27 | 18 52 | 0 40 | 21 57 | 0 2 | 21 34 | 1 39 | 20 4 | 20 10 | 18 55 | | n.a. |
| M11 | 5 56 | 14 10 | 4 41 | 6 59 | 1 15 | 15 25 | 3 22 | 22 12 | 1 12 | 14 19 | 1 39 | 17 17 | 1 28 | 18 51 | 0 40 | 21 57 | 0 2 | 21 34 | 1 39 | 20 2 | 20 9 | 18 56 | | n.a. |
| T 12 | 5 33 | 10 7 | 4 59 | 6 13 | 1 10 | 15 50 | 3 27 | 22 5 | 1 12 | 14 21 | 1 39 | 17 15 | 1 28 | 18 50 | 0 40 | 21 57 | 0 2 | 21 34 | 1 39 | 20 0 | 20 8 | 18 57 | | n.a. |
| W13 | 5 9 | 5 40 | 5 1 | 5 28 | 1 5 | 16 15 | 3 31 | 21 58 | 1 13 | 14 24 | 1 39 | 17 13 | 1 28 | 18 49 | 0 40 | 21 57 | 0 2 | 21 34 | 1 39 | 19 57 | 20 7 | 18 58 | | n.a. |
| T 14 | 4 46 | 1 2 | 4 47 | 4 42 | 0 59 | 16 40 | 3 36 | 21 52 | 1 14 | 14 26 | 1 39 | 17 11 | 1 28 | 18 49 | 0 40 | 21 57 | 0 2 | 21 34 | 1 39 | 19 55 | 20 7 | 18 59 | | n.a. |
| F 15 | 4 22 | 3s33 | 4 19 | 3 56 | 0 53 | 17 4 | 3 41 | 21 45 | 1 14 | 14 28 | 1 39 | 17 9 | 1 28 | 18 48 | 0 40 | 21 56 | 0 2 | 21 34 | 1 39 | 19 52 | 20 6 | 19 0 | | n.a. |
| S 16 | 3 59 | 7 55 | 3 39 | 3 10 | 0 47 | 17 27 | 3 45 | 21 38 | 1 15 | 14 30 | 1 39 | 17 7 | 1 28 | 18 47 | 0 40 | 21 56 | 0 2 | 21 34 | 1 39 | 19 50 | 20 5 | 19 1 | | n.a. |
| S 17 | 3 35 | 11 53 | 2 49 | 2 25 | 0 41 | 17 51 | 3 50 | 21 30 | 1 16 | 14 33 | 1 39 | 17 5 | 1 28 | 18 46 | 0 40 | 21 56 | 0 2 | 21 34 | 1 39 | 19 48 | 20 5 | 19 2 | | n.a. |
| M18 | 3 11 | 15 18 | 1 53 | 1 39 | 0 34 | 18 14 | 3 55 | 21 23 | 1 16 | 14 35 | 1 39 | 17 3 | 1 29 | 18 45 | 0 40 | 21 56 | 0 2 | 21 34 | 1 39 | 19 47 | 20 4 | 19 3 | | n.a. |
| T 19 | 2 47 | 18 4 | 0 52 | 0 54 | 0 28 | 18 36 | 3 59 | 21 16 | 1 17 | 14 37 | 1 39 | 17 1 | 1 29 | 18 45 | 0 40 | 21 56 | 0 2 | 21 34 | 1 39 | 19 46 | 20 3 | 19 4 | | n.a. |
| W20 | 2 24 | 20 2 | 0n10 | 0 9 | 0 21 | 18 58 | 4 3 | 21 8 | 1 18 | 14 39 | 1 38 | 16 59 | 1 29 | 18 44 | 0 40 | 21 55 | 0 2 | 21 34 | 1 39 | 19 46 | 20 2 | 19 4 | | n.a. |
| T 21 | 2 0 | 21 8 | 1 13 | 0s37 | 0 15 | 19 20 | 4 8 | 21 0 | 1 18 | 14 41 | 1 38 | 16 58 | 1 29 | 18 43 | 0 40 | 21 55 | 0 2 | 21 34 | 1 39 | 19 46 | 20 2 | 19 5 | | n.a. |
| F 22 | 1 36 | 21 18 | 2 13 | 1 21 | 0 8 | 19 41 | 4 12 | 20 53 | 1 19 | 14 43 | 1 38 | 16 56 | 1 29 | 18 42 | 0 40 | 21 55 | 0 2 | 21 34 | 1 39 | 19 46 | 20 1 | 19 6 | | n.a. |
| S 23 | 1 12 | 20 29 | 3 8 | 2 6 | 0 1 | 20 1 | 4 16 | 20 45 | 1 20 | 14 44 | 1 38 | 16 54 | 1 29 | 18 42 | 0 40 | 21 55 | 0 2 | 21 34 | 1 39 | 19 46 | 20 0 | 19 7 | | n.a. |
| S 24 | 0 48 | 18 41 | 3 55 | 2 50 | 0s 5 | 20 22 | 4 20 | 20 37 | 1 20 | 14 46 | 1 38 | 16 52 | 1 30 | 18 41 | 0 40 | 21 55 | 0 2 | 21 34 | 1 39 | 19 46 | 20 0 | 19 8 | | n.a. |
| M25 | 0 23 | 15 56 | 4 33 | 3 34 | 0 12 | 20 41 | 4 24 | 20 29 | 1 21 | 14 48 | 1 38 | 16 50 | 1 30 | 18 40 | 0 40 | 21 54 | 0 2 | 21 34 | 1 39 | 19 45 | 19 59 | 19 9 | | n.a. |
| T 26 | 0s 1 | 12 19 | 4 57 | 4 18 | 0 19 | 21 0 | 4 28 | 20 21 | 1 21 | 14 49 | 1 38 | 16 48 | 1 30 | 18 39 | 0 40 | 21 54 | 0 2 | 21 34 | 1 39 | 19 43 | 19 58 | 19 10 | | n.a. |
| W27 | 0 25 | 7 58 | 5 6 | 5 1 | 0 25 | 21 19 | 4 31 | 20 12 | 1 22 | 14 51 | 1 37 | 16 46 | 1 30 | 18 39 | 0 40 | 21 54 | 0 2 | 21 34 | 1 39 | 19 41 | 19 57 | 19 11 | | n.a. |
| T 28 | 0 49 | 3 4 | 4 57 | 5 44 | 0 32 | 21 37 | 4 35 | 20 4 | 1 23 | 14 53 | 1 37 | 16 45 | 1 30 | 18 38 | 0 40 | 21 54 | 0 2 | 21 34 | 1 39 | 19 39 | 19 57 | 19 11 | | n.a. |
| F 29 | 1 13 | 2n 8 | 4 30 | 6 26 | 0 39 | 21 55 | 4 38 | 19 55 | 1 23 | 14 54 | 1 37 | 16 43 | 1 30 | 18 37 | 0 40 | 21 54 | 0 2 | 21 34 | 1 39 | 19 37 | 19 56 | 19 12 | | n.a. |
| S 30 | 1s37 | 7n18 | 3n44 | 7s 8 | 0s46 | 22s12 | 4s42 | 19n47 | 1n24 | 14s55 | 1s37 | 16n41 | 1n31 | 18n37 | 0n40 | 21n54 | 0n 2 | 21n34 | 1s39 | 19s35 | 19s55 | 19s13 | | n.a. |

Julian Day Number = 1701577.5, Delta T = 03h05m18s
Ecliptic obliquity = 23°42'02, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°48'49, Lahiri = - 4°41'49 Julian Calendar 1 Sept. 55 BCE == Greg. Calendar 30 Aug. 055 BCE

The year -54 astronomical counting style corresponds to year 055 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 55 BCE
# geocentric

## OCTOBER 55 BCE (-54) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 0 27 12 | 5♎ 1'32 | 24♈30 | 17♎44 | 19♏55 | 8♌44 | 24°R42 | 19♌13 | 9♌56 | 22♋10 | 18°R45 | 26°R25 | 27♏55 | 23♏29 | n.a. | S 1 |
| M 2 | 0 31 9 | 6° 1'39 | 9♉19 | 19°15 | 20°42 | 9°19 | 24♒38 | 19°19 | 9°58 | 22°11 | 18♊44 | 26♏22 | 27°51 | 23°35 | n.a. | M 2 |
| T 3 | 0 35 5 | 7° 1'48 | 24° 2 | 20°45 | 21°28 | 9°55 | 24°34 | 19°25 | 10° 1 | 22°11 | 18°44 | 26°D20 | 27°48 | 23°42 | n.a. | T 3 |
| W 4 | 0 39 2 | 8° 1'59 | 8♊34 | 22°15 | 22°13 | 10°30 | 24°30 | 19°30 | 10° 3 | 22°12 | 18°44 | 26°21 | 27°45 | 23°49 | n.a. | W 4 |
| T 5 | 0 42 58 | 9° 2'12 | 22°50 | 23°45 | 22°57 | 11° 4 | 24°27 | 19°36 | 10° 5 | 22°13 | 18°44 | 26°22 | 27°42 | 23°55 | n.a. | T 5 |
| F 6 | 0 46 55 | 10° 2'27 | 6♋50 | 25°14 | 23°40 | 11°39 | 24°23 | 19°42 | 10° 8 | 22°14 | 18°43 | 26°R23 | 27°39 | 24° 2 | n.a. | F 6 |
| S 7 | 0 50 51 | 11° 2'45 | 20°33 | 26°43 | 24°22 | 12°14 | 24°20 | 19°48 | 10°10 | 22°15 | 18°43 | 26°22 | 27°35 | 24° 8 | n.a. | S 7 |
| S 8 | 0 54 48 | 12° 3'04 | 4♌ 0 | 28°11 | 25° 4 | 12°49 | 24°17 | 19°53 | 10°12 | 22°15 | 18°43 | 26°20 | 27°32 | 24°15 | n.a. | S 8 |
| M 9 | 0 58 45 | 13° 3'26 | 17°12 | 29°38 | 25°44 | 13°24 | 24°14 | 19°59 | 10°15 | 22°16 | 18°42 | 26°16 | 27°29 | 24°22 | n.a. | M 9 |
| T 10 | 1 2 41 | 14° 3'49 | 0♍10 | 1♏ 5 | 26°23 | 13°58 | 24°11 | 20° 4 | 10°17 | 22°17 | 18°42 | 26°10 | 27°26 | 24°28 | n.a. | T 10 |
| W11 | 1 6 38 | 15° 4'15 | 12°55 | 2°32 | 27° 0 | 14°33 | 24° 9 | 20° 9 | 10°19 | 22°17 | 18°41 | 26° 3 | 27°23 | 24°35 | n.a. | W11 |
| T 12 | 1 10 34 | 16° 4'42 | 25°28 | 3°57 | 27°37 | 15° 7 | 24° 6 | 20°15 | 10°21 | 22°18 | 18°41 | 25°55 | 27°20 | 24°42 | n.a. | T 12 |
| F 13 | 1 14 31 | 17° 5'12 | 7♎49 | 5°22 | 28°12 | 15°42 | 24° 4 | 20°20 | 10°23 | 22°18 | 18°40 | 25°48 | 27°16 | 24°48 | n.a. | F 13 |
| S 14 | 1 18 27 | 18° 5'43 | 20° 0 | 6°47 | 28°46 | 16°16 | 24° 2 | 20°25 | 10°25 | 22°19 | 18°40 | 25°42 | 27°13 | 24°55 | n.a. | S 14 |
| S 15 | 1 22 24 | 19° 6'15 | 2♏ 2 | 8°10 | 29°18 | 16°50 | 24° 1 | 20°30 | 10°27 | 22°19 | 18°39 | 25°37 | 27°10 | 25° 2 | n.a. | S 15 |
| M16 | 1 26 20 | 20° 6'50 | 13°55 | 9°33 | 29°49 | 17°24 | 23°59 | 20°35 | 10°29 | 22°20 | 18°39 | 25°35 | 27° 7 | 25° 8 | n.a. | M16 |
| T 17 | 1 30 17 | 21° 7'26 | 25°44 | 10°55 | 0♐18 | 17°58 | 23°58 | 20°40 | 10°30 | 22°20 | 18°38 | 25°D34 | 27° 4 | 25°15 | n.a. | T 17 |
| W18 | 1 34 14 | 22° 8'03 | 7♐29 | 12°15 | 0°46 | 18°32 | 23°57 | 20°45 | 10°32 | 22°20 | 18°38 | 25°34 | 27° 1 | 25°22 | n.a. | W18 |
| T 19 | 1 38 10 | 23° 8'42 | 19°16 | 13°35 | 1°12 | 19° 6 | 23°56 | 20°50 | 10°34 | 22°21 | 18°37 | 25°36 | 26°57 | 25°28 | n.a. | T 19 |
| F 20 | 1 42 7 | 24° 9'22 | 1♑ 9 | 14°53 | 1°37 | 19°40 | 23°55 | 20°54 | 10°35 | 22°21 | 18°36 | 25°38 | 26°54 | 25°35 | n.a. | F 20 |
| S 21 | 1 46 3 | 25°10'04 | 13°11 | 16° 9 | 1°59 | 20°14 | 23°55 | 20°59 | 10°37 | 22°21 | 18°36 | 25°39 | 26°51 | 25°42 | n.a. | S 21 |
| S 22 | 1 50 0 | 26°10'46 | 25°28 | 17°24 | 2°20 | 20°47 | 23°55 | 21° 3 | 10°39 | 22°22 | 18°35 | 25°R40 | 26°48 | 25°48 | n.a. | S 22 |
| M23 | 1 53 56 | 27°11'30 | 8♒ 6 | 18°37 | 2°39 | 21°21 | 23°D55 | 21° 8 | 10°40 | 22°22 | 18°34 | 25°40 | 26°45 | 25°55 | n.a. | M23 |
| T 24 | 1 57 53 | 28°12'15 | 21° 7 | 19°47 | 2°55 | 21°54 | 23°55 | 21°12 | 10°42 | 22°22 | 18°33 | 25°38 | 26°41 | 26° 1 | n.a. | T 24 |
| W25 | 2 1 49 | 29°13'01 | 4♓36 | 20°55 | 3°10 | 22°28 | 23°55 | 21°16 | 10°43 | 22°22 | 18°33 | 25°35 | 26°38 | 26° 8 | n.a. | W25 |
| T 26 | 2 5 46 | 0♏13'48 | 18°33 | 22° 0 | 3°23 | 23° 1 | 23°56 | 21°21 | 10°44 | 22°22 | 18°32 | 25°31 | 26°35 | 26°15 | n.a. | T 26 |
| F 27 | 2 9 43 | 1°14'37 | 2♈57 | 23° 2 | 3°33 | 23°34 | 23°57 | 21°25 | 10°46 | 22°22 | 18°31 | 25°27 | 26°32 | 26°21 | n.a. | F 27 |
| S 28 | 2 13 39 | 2°15'26 | 17°44 | 24° 0 | 3°41 | 24° 7 | 23°58 | 21°29 | 10°47 | 22°R22 | 18°30 | 25°24 | 26°29 | 26°28 | n.a. | S 28 |
| S 29 | 2 17 36 | 3°16'17 | 2♉46 | 24°54 | 3°47 | 24°40 | 23°59 | 21°33 | 10°48 | 22°22 | 18°30 | 25°22 | 26°26 | 26°35 | n.a. | S 29 |
| M30 | 2 21 32 | 4°17'09 | 17°55 | 25°43 | 3°51 | 25°13 | 24° 0 | 21°36 | 10°49 | 22°22 | 18°29 | 25°D21 | 26°22 | 26°41 | n.a. | M30 |
| T 31 | 2 25 29 | 5♏18'03 | 3♊ 1 | 26♏27 | 3°R52 | 25♌46 | 24♒ 2 | 21♌40 | 10♌50 | 22♋22 | 18♊28 | 25♏21 | 26♏19 | 26♏48 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| S 1 | 2s 1 | 12n 7 | 2n43 | 7s50 | 0s52 | 22s28 | 4s45 | 19n38 | 1n25 | 14s57 | 1s37 | 16n39 | 1n31 | 18n36 | 0n40 | 21n54 | 0n 2 | 21n34 | 1s39 | 19s34 | 19s55 | 19s14 | | | n.a. |
| M 2 | 2 25 | 16 11 | 1 31 | 8 31 | 0 59 | 22 44 | 4 48 | 19 29 | 1 25 | 14 58 | 1 36 | 16 38 | 1 31 | 18 35 | 0 40 | 21 53 | 0 2 | 21 34 | 1 39 | 19 33 | 19 54 | 19 15 | | | n.a. |
| T 3 | 2 49 | 19 11 | 0 12 | 9 12 | 1 5 | 23 0 | 4 51 | 19 20 | 1 26 | 14 59 | 1 36 | 16 36 | 1 31 | 18 35 | 0 40 | 21 53 | 0 2 | 21 34 | 1 39 | 19 33 | 19 53 | 19 16 | | | n.a. |
| W 4 | 3 13 | 20 54 | 1s 6 | 9 52 | 1 11 | 23 14 | 4 53 | 19 11 | 1 27 | 15 0 | 1 36 | 16 34 | 1 31 | 18 34 | 0 40 | 21 53 | 0 2 | 21 34 | 1 39 | 19 33 | 19 52 | 19 16 | | | n.a. |
| T 5 | 3 37 | 21 12 | 2 18 | 10 31 | 1 18 | 23 28 | 4 56 | 19 2 | 1 27 | 15 1 | 1 36 | 16 33 | 1 31 | 18 33 | 0 40 | 21 53 | 0 2 | 21 34 | 1 39 | 19 33 | 19 52 | 19 17 | | | n.a. |
| F 6 | 4 1 | 20 10 | 3 21 | 11 10 | 1 24 | 23 42 | 4 58 | 18 53 | 1 28 | 15 2 | 1 36 | 16 31 | 1 32 | 18 33 | 0 41 | 21 53 | 0 2 | 21 34 | 1 39 | 19 33 | 19 51 | 19 18 | | | n.a. |
| S 7 | 4 25 | 17 58 | 4 11 | 11 48 | 1 30 | 23 55 | 5 0 | 18 44 | 1 29 | 15 3 | 1 35 | 16 29 | 1 32 | 18 32 | 0 41 | 21 53 | 0 2 | 21 34 | 1 39 | 19 33 | 19 50 | 19 19 | | | n.a. |
| S 8 | 4 49 | 14 49 | 4 46 | 12 26 | 1 36 | 24 7 | 5 2 | 18 35 | 1 29 | 15 4 | 1 35 | 16 28 | 1 32 | 18 32 | 0 41 | 21 53 | 0 2 | 21 34 | 1 39 | 19 33 | 19 50 | 19 20 | | | n.a. |
| M 9 | 5 13 | 11 0 | 5 6 | 13 3 | 1 41 | 24 19 | 5 4 | 18 25 | 1 30 | 15 5 | 1 35 | 16 26 | 1 32 | 18 31 | 0 41 | 21 53 | 0 2 | 21 34 | 1 39 | 19 32 | 19 49 | 19 20 | | | n.a. |
| T 10 | 5 36 | 6 43 | 5 9 | 13 39 | 1 47 | 24 30 | 5 6 | 18 16 | 1 31 | 15 5 | 1 35 | 16 25 | 1 32 | 18 31 | 0 41 | 21 53 | 0 2 | 21 34 | 1 39 | 19 30 | 19 48 | 19 21 | | | n.a. |
| W11 | 6 0 | 2 14 | 4 56 | 14 14 | 1 52 | 24 40 | 5 7 | 18 6 | 1 31 | 15 6 | 1 35 | 16 23 | 1 33 | 18 30 | 0 41 | 21 52 | 0 2 | 21 34 | 1 39 | 19 29 | 19 47 | 19 22 | | | n.a. |
| T 12 | 6 23 | 2s18 | 4 30 | 14 49 | 1 57 | 24 50 | 5 8 | 17 57 | 1 32 | 15 7 | 1 34 | 16 22 | 1 33 | 18 30 | 0 41 | 21 52 | 0 2 | 21 34 | 1 39 | 19 27 | 19 47 | 19 23 | | | n.a. |
| F 13 | 6 47 | 6 40 | 3 51 | 15 22 | 2 2 | 24 59 | 5 9 | 17 47 | 1 33 | 15 7 | 1 34 | 16 20 | 1 33 | 18 29 | 0 41 | 21 52 | 0 2 | 21 34 | 1 39 | 19 25 | 19 46 | 19 24 | | | n.a. |
| S 14 | 7 10 | 10 42 | 3 2 | 15 55 | 2 7 | 25 7 | 5 9 | 17 37 | 1 33 | 15 8 | 1 34 | 16 19 | 1 33 | 18 29 | 0 41 | 21 52 | 0 2 | 21 34 | 1 39 | 19 24 | 19 45 | 19 24 | | | n.a. |
| S 15 | 7 34 | 14 16 | 2 5 | 16 27 | 2 11 | 25 15 | 5 9 | 17 27 | 1 34 | 15 8 | 1 34 | 16 17 | 1 33 | 18 28 | 0 41 | 21 52 | 0 2 | 21 34 | 1 39 | 19 22 | 19 44 | 19 25 | | | n.a. |
| M16 | 7 57 | 17 12 | 1 3 | 16 58 | 2 16 | 25 22 | 5 9 | 17 17 | 1 35 | 15 8 | 1 33 | 16 16 | 1 34 | 18 28 | 0 41 | 21 52 | 0 2 | 21 34 | 1 39 | 19 22 | 19 44 | 19 26 | | | n.a. |
| T 17 | 8 20 | 19 23 | 0n 1 | 17 28 | 2 19 | 25 28 | 5 9 | 17 7 | 1 36 | 15 8 | 1 33 | 16 14 | 1 34 | 18 27 | 0 41 | 21 52 | 0 2 | 21 34 | 1 39 | 19 22 | 19 43 | 19 27 | | | n.a. |
| W18 | 8 43 | 20 44 | 1 5 | 17 56 | 2 23 | 25 33 | 5 8 | 16 57 | 1 36 | 15 8 | 1 33 | 16 13 | 1 34 | 18 27 | 0 41 | 21 52 | 0 2 | 21 34 | 1 39 | 19 22 | 19 42 | 19 27 | | | n.a. |
| T 19 | 9 5 | 21 10 | 2 6 | 18 24 | 2 26 | 25 38 | 5 8 | 16 47 | 1 37 | 15 9 | 1 33 | 16 12 | 1 34 | 18 26 | 0 41 | 21 52 | 0 2 | 21 34 | 1 39 | 19 22 | 19 41 | 19 28 | | | n.a. |
| F 20 | 9 28 | 20 39 | 3 3 | 18 50 | 2 28 | 25 42 | 5 6 | 16 37 | 1 38 | 15 9 | 1 32 | 16 10 | 1 34 | 18 26 | 0 41 | 21 52 | 0 3 | 21 34 | 1 39 | 19 23 | 19 41 | 19 29 | | | n.a. |
| S 21 | 9 51 | 19 11 | 3 52 | 19 15 | 2 31 | 25 45 | 5 5 | 16 27 | 1 38 | 15 8 | 1 32 | 16 9 | 1 35 | 18 25 | 0 41 | 21 52 | 0 3 | 21 34 | 1 39 | 19 23 | 19 40 | 19 30 | | | n.a. |
| S 22 | 10 13 | 16 49 | 4 32 | 19 38 | 2 32 | 25 47 | 5 3 | 16 17 | 1 39 | 15 8 | 1 32 | 16 8 | 1 35 | 18 25 | 0 41 | 21 52 | 0 3 | 21 34 | 1 39 | 19 23 | 19 39 | 19 30 | | | n.a. |
| M23 | 10 35 | 13 37 | 5 0 | 20 0 | 2 34 | 25 49 | 5 0 | 16 7 | 1 40 | 15 8 | 1 32 | 16 7 | 1 35 | 18 25 | 0 41 | 21 52 | 0 3 | 21 34 | 1 38 | 19 23 | 19 38 | 19 31 | | | n.a. |
| T 24 | 10 57 | 9 40 | 5 14 | 20 21 | 2 34 | 25 50 | 4 57 | 15 56 | 1 41 | 15 8 | 1 31 | 16 5 | 1 35 | 18 24 | 0 41 | 21 52 | 0 3 | 21 34 | 1 38 | 19 23 | 19 38 | 19 32 | | | n.a. |
| W25 | 11 19 | 5 7 | 5 11 | 20 39 | 2 34 | 25 49 | 4 54 | 15 46 | 1 41 | 15 7 | 1 31 | 16 4 | 1 36 | 18 24 | 0 41 | 21 52 | 0 3 | 21 34 | 1 38 | 19 22 | 19 37 | 19 32 | | | n.a. |
| T 26 | 11 41 | 0 8 | 4 50 | 20 56 | 2 33 | 25 48 | 4 50 | 15 36 | 1 42 | 15 7 | 1 31 | 16 3 | 1 36 | 18 24 | 0 41 | 21 52 | 0 3 | 21 34 | 1 38 | 19 21 | 19 36 | 19 33 | | | n.a. |
| F 27 | 12 2 | 5n 0 | 4 10 | 21 11 | 2 32 | 25 46 | 4 46 | 15 25 | 1 43 | 15 6 | 1 31 | 16 2 | 1 36 | 18 23 | 0 41 | 21 52 | 0 3 | 21 34 | 1 38 | 19 20 | 19 35 | 19 34 | | | n.a. |
| S 28 | 12 23 | 10 0 | 3 13 | 21 23 | 2 30 | 25 43 | 4 42 | 15 15 | 1 43 | 15 6 | 1 30 | 16 1 | 1 36 | 18 23 | 0 41 | 21 52 | 0 3 | 21 34 | 1 38 | 19 19 | 19 35 | 19 35 | | | n.a. |
| S 29 | 12 44 | 14 28 | 2 2 | 21 34 | 2 26 | 25 39 | 4 36 | 15 4 | 1 44 | 15 5 | 1 30 | 16 0 | 1 36 | 18 23 | 0 41 | 21 52 | 0 3 | 21 34 | 1 38 | 19 19 | 19 34 | 19 35 | | | n.a. |
| M30 | 13 5 | 18 1 | 0 41 | 21 42 | 2 22 | 25 35 | 4 31 | 14 54 | 1 45 | 15 4 | 1 30 | 15 59 | 1 37 | 18 22 | 0 41 | 21 52 | 0 3 | 21 34 | 1 38 | 19 18 | 19 33 | 19 36 | | | n.a. |
| T 31 | 13s26 | 20n18 | 0s42 | 21s47 | 2s17 | 25s29 | 4s25 | 14n43 | 1n46 | 15s 4 | 1s30 | 15n58 | 1n37 | 18n22 | 0n42 | 21n52 | 0n 3 | 21n34 | 1s38 | 19s18 | 19s32 | 19s37 | | | n.a. |

Julian Day Number = 1701607.5, Delta T = 03h05m17s
Ecliptic obliquity = 23°42'02, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°48'45, Lahiri = - 4°41'45 Julian Calendar 1 Oct. 55 BCE == Greg. Calendar 29 Sept. 055 BCE

The year -54 astronomical counting style corresponds to year 055 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 55 BCE
# geocentric

## NOVEMBER 55 BCE (-54) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 2 29 25 | 6♏18'57 | 17♊56 | 27♏ 4 | 3°R50 | 26♌19 | 24♒ 4 | 21♌44 | 10♌51 | 22°R22 | 18°R27 | 25♏22 | 26♏16 | 26♏55 | n.a. | W 1 |
| T 2 | 2 33 22 | 7°19'54 | 2♋33 | 27°34 | 3♐47 | 26°52 | 24° 6 | 21°47 | 10°52 | 22♋22 | 18♊26 | 25°23 | 26°13 | 27° 1 | n.a. | T 2 |
| F 3 | 2 37 18 | 8°20'51 | 16°47 | 27°57 | 3°41 | 27°24 | 24° 8 | 21°51 | 10°53 | 22°22 | 18°25 | 25°24 | 26°10 | 27° 8 | n.a. | F 3 |
| S 4 | 2 41 15 | 9°21'50 | 0♌38 | 28°11 | 3°32 | 27°57 | 24°10 | 21°54 | 10°54 | 22°21 | 18°24 | 25°25 | 26° 7 | 27°15 | n.a. | S 4 |
| S 5 | 2 45 12 | 10°22'50 | 14° 6 | 28°R15 | 3°21 | 28°29 | 24°13 | 21°57 | 10°55 | 22°21 | 18°23 | 25°R25 | 26° 3 | 27°21 | n.a. | S 5 |
| M 6 | 2 49 8 | 11°23'52 | 27°12 | 28°10 | 3° 7 | 29° 1 | 24°16 | 22° 1 | 10°56 | 22°21 | 18°22 | 25°25 | 26° 0 | 27°28 | n.a. | M 6 |
| T 7 | 2 53 5 | 12°24'55 | 9♍59 | 27°53 | 2°51 | 29°33 | 24°19 | 22° 4 | 10°56 | 22°21 | 18°21 | 25°23 | 25°57 | 27°34 | n.a. | T 7 |
| W 8 | 2 57 1 | 13°25'59 | 22°29 | 27°26 | 2°33 | 0♍ 5 | 24°22 | 22° 7 | 10°57 | 22°20 | 18°20 | 25°22 | 25°54 | 27°41 | n.a. | W 8 |
| T 9 | 3 0 58 | 14°27'04 | 4♎47 | 26°47 | 2°12 | 0°37 | 24°26 | 22°10 | 10°58 | 22°20 | 18°19 | 25°20 | 25°51 | 27°48 | n.a. | T 9 |
| F 10 | 3 4 54 | 15°28'10 | 16°54 | 25°57 | 1°49 | 1° 9 | 24°29 | 22°12 | 10°58 | 22°19 | 18°18 | 25°18 | 25°47 | 27°54 | n.a. | F 10 |
| S 11 | 3 8 51 | 16°29'17 | 28°53 | 24°57 | 1°24 | 1°41 | 24°33 | 22°15 | 10°59 | 22°19 | 18°17 | 25°17 | 25°44 | 28° 1 | n.a. | S 11 |
| S 12 | 3 12 47 | 17°30'26 | 10♏45 | 23°48 | 0°57 | 2°12 | 24°37 | 22°18 | 10°59 | 22°18 | 18°16 | 25°16 | 25°41 | 28° 8 | n.a. | S 12 |
| M13 | 3 16 44 | 18°31'35 | 22°34 | 22°32 | 0°28 | 2°43 | 24°41 | 22°20 | 10°59 | 22°18 | 18°15 | 25°D16 | 25°38 | 28°14 | n.a. | M13 |
| T 14 | 3 20 41 | 19°32'44 | 4♐21 | 21°11 | 29♏58 | 3°15 | 24°46 | 22°22 | 11° 0 | 22°17 | 18°14 | 25°16 | 25°35 | 28°21 | n.a. | T 14 |
| W15 | 3 24 37 | 20°33'55 | 16° 9 | 19°48 | 29°26 | 3°46 | 24°50 | 22°25 | 11° 0 | 22°17 | 18°13 | 25°17 | 25°32 | 28°28 | n.a. | W15 |
| T 16 | 3 28 34 | 21°35'06 | 27°59 | 18°26 | 28°52 | 4°17 | 24°55 | 22°27 | 11° 0 | 22°16 | 18°12 | 25°17 | 25°28 | 28°34 | n.a. | T 16 |
| F 17 | 3 32 30 | 22°36'17 | 9♑55 | 17° 7 | 28°18 | 4°48 | 25° 0 | 22°29 | 11° 0 | 22°16 | 18°11 | 25°17 | 25°25 | 28°41 | n.a. | F 17 |
| S 18 | 3 36 27 | 23°37'29 | 22° 0 | 15°55 | 27°42 | 5°18 | 25° 5 | 22°31 | 11° 0 | 22°15 | 18°10 | 25°18 | 25°22 | 28°48 | n.a. | S 18 |
| S 19 | 3 40 23 | 24°38'41 | 4♒17 | 14°50 | 27° 6 | 5°49 | 25°10 | 22°33 | 11°R 0 | 22°14 | 18° 9 | 25°18 | 25°19 | 28°54 | n.a. | S 19 |
| M20 | 3 44 20 | 25°39'53 | 16°52 | 13°55 | 26°30 | 6°19 | 25°16 | 22°34 | 11° 0 | 22°13 | 18° 7 | 25°R18 | 25°16 | 29° 1 | n.a. | M20 |
| T 21 | 3 48 16 | 26°41'06 | 29°46 | 13°11 | 25°53 | 6°50 | 25°22 | 22°36 | 11° 0 | 22°13 | 18° 6 | 25°D18 | 25°12 | 29° 8 | n.a. | T 21 |
| W22 | 3 52 13 | 27°42'19 | 13♓ 5 | 12°37 | 25°17 | 7°20 | 25°27 | 22°38 | 11° 0 | 22°12 | 18° 5 | 25°18 | 25° 9 | 29°14 | n.a. | W22 |
| T 23 | 3 56 10 | 28°43'31 | 26°49 | 12°14 | 24°41 | 7°50 | 25°33 | 22°39 | 11° 0 | 22°11 | 18° 4 | 25°18 | 25° 6 | 29°21 | n.a. | T 23 |
| F 24 | 4 0 6 | 29°44'44 | 11♈ 1 | 12° 2 | 24° 6 | 8°20 | 25°40 | 22°40 | 11° 0 | 22°10 | 18° 3 | 25°19 | 25° 3 | 29°27 | n.a. | F 24 |
| S 25 | 4 4 3 | 0♗45'57 | 25°38 | 12°D 0 | 23°31 | 8°49 | 25°46 | 22°41 | 10°59 | 22° 9 | 18° 2 | 25°19 | 25° 0 | 29°34 | n.a. | S 25 |
| S 26 | 4 7 59 | 1°47'10 | 10♉35 | 12° 7 | 22°58 | 9°19 | 25°53 | 22°43 | 10°59 | 22° 8 | 18° 0 | 25°19 | 24°57 | 29°41 | n.a. | S 26 |
| M27 | 4 11 56 | 2°48'23 | 25°46 | 12°23 | 22°25 | 9°48 | 25°59 | 22°44 | 10°58 | 22° 7 | 17°59 | 25°R20 | 24°53 | 29°47 | n.a. | M27 |
| T 28 | 4 15 52 | 3°49'37 | 11♊ 1 | 12°47 | 21°55 | 10°17 | 26° 6 | 22°44 | 10°58 | 22° 6 | 17°58 | 25°19 | 24°50 | 29°54 | n.a. | T 28 |
| W29 | 4 19 49 | 4°50'50 | 26°11 | 13°18 | 21°26 | 10°47 | 26°13 | 22°45 | 10°57 | 22° 5 | 17°57 | 25°19 | 24°47 | 0♗ 1 | n.a. | W29 |
| T 30 | 4 23 46 | 5♗52'04 | 11♋ 6 | 13♏56 | 20♏59 | 11♍15 | 26♒20 | 22♌46 | 10♌57 | 22♋ 4 | 17♊55 | 25♏17 | 24♏44 | 0♗ 7 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 13s46 | 21n 7 | 2s 2 | 21s50 | 2s10 | 25s22 | 4s18 | 14n33 | 1n46 | 15s 3 | 1s29 | 15n57 | 1n37 | 18n22 | 0n42 | 21n52 | 0n 3 | 21n34 | 1s38 | 19s19 | 19s32 | 19s37 | | n.a. |
| T 2 | 14 6 | 20 29 | 3 12 | 21 49 | 2 3 | 25 14 | 4 11 | 14 22 | 1 47 | 15 2 | 1 29 | 15 56 | 1 37 | 18 22 | 0 42 | 21 52 | 0 3 | 21 34 | 1 38 | 19 19 | 19 31 | 19 38 | | n.a. |
| F 3 | 14 26 | 18 32 | 4 8 | 21 46 | 1 54 | 25 5 | 4 3 | 14 11 | 1 48 | 15 1 | 1 29 | 15 55 | 1 38 | 18 21 | 0 42 | 21 52 | 0 3 | 21 34 | 1 38 | 19 19 | 19 30 | 19 39 | | n.a. |
| S 4 | 14 46 | 15 33 | 4 48 | 21 39 | 1 43 | 24 55 | 3 54 | 14 1 | 1 49 | 15 0 | 1 29 | 15 54 | 1 38 | 18 21 | 0 42 | 21 52 | 0 3 | 21 34 | 1 38 | 19 19 | 19 29 | 19 39 | | n.a. |
| S 5 | 15 6 | 11 49 | 5 11 | 21 28 | 1 31 | 24 44 | 3 45 | 13 50 | 1 49 | 14 59 | 1 28 | 15 53 | 1 38 | 18 21 | 0 42 | 21 52 | 0 3 | 21 33 | 1 38 | 19 20 | 19 29 | 19 40 | | n.a. |
| M 6 | 15 25 | 7 37 | 5 17 | 21 14 | 1 18 | 24 32 | 3 36 | 13 39 | 1 50 | 14 57 | 1 28 | 15 52 | 1 38 | 18 21 | 0 42 | 21 52 | 0 3 | 21 33 | 1 38 | 19 19 | 19 28 | 19 41 | | n.a. |
| T 7 | 15 44 | 3 11 | 5 7 | 20 56 | 1 3 | 24 19 | 3 26 | 13 29 | 1 51 | 14 56 | 1 28 | 15 52 | 1 39 | 18 21 | 0 42 | 21 52 | 0 3 | 21 33 | 1 38 | 19 19 | 19 27 | 19 41 | | n.a. |
| W 8 | 16 3 | 1s18 | 4 42 | 20 33 | 0 47 | 24 5 | 3 15 | 13 18 | 1 52 | 14 55 | 1 28 | 15 51 | 1 39 | 18 21 | 0 42 | 21 52 | 0 3 | 21 33 | 1 38 | 19 19 | 19 26 | 19 42 | | n.a. |
| T 9 | 16 21 | 5 40 | 4 5 | 20 7 | 0 29 | 23 49 | 3 3 | 13 7 | 1 52 | 14 53 | 1 27 | 15 50 | 1 39 | 18 21 | 0 42 | 21 52 | 0 3 | 21 33 | 1 38 | 19 18 | 19 26 | 19 43 | | n.a. |
| F 10 | 16 39 | 9 45 | 3 18 | 19 37 | 0 10 | 23 33 | 2 52 | 12 57 | 1 53 | 14 52 | 1 27 | 15 49 | 1 39 | 18 20 | 0 42 | 21 52 | 0 3 | 21 33 | 1 38 | 19 18 | 19 25 | 19 43 | | n.a. |
| S 11 | 16 57 | 13 24 | 2 22 | 19 3 | 0n10 | 23 16 | 2 39 | 12 46 | 1 54 | 14 50 | 1 27 | 15 49 | 1 40 | 18 20 | 0 42 | 21 53 | 0 3 | 21 33 | 1 38 | 19 18 | 19 24 | 19 44 | | n.a. |
| S 12 | 17 14 | 16 29 | 1 20 | 18 26 | 0 31 | 22 57 | 2 26 | 12 35 | 1 55 | 14 49 | 1 26 | 15 48 | 1 40 | 18 20 | 0 42 | 21 53 | 0 3 | 21 33 | 1 38 | 19 17 | 19 23 | 19 45 | | n.a. |
| M13 | 17 32 | 18 51 | 0 15 | 17 47 | 0 51 | 22 38 | 2 13 | 12 24 | 1 56 | 14 47 | 1 26 | 15 48 | 1 40 | 18 20 | 0 42 | 21 53 | 0 3 | 21 33 | 1 38 | 19 17 | 19 23 | 19 45 | | n.a. |
| T 14 | 17 49 | 20 25 | 0n50 | 17 6 | 1 11 | 22 18 | 1 59 | 12 14 | 1 56 | 14 46 | 1 26 | 15 47 | 1 40 | 18 20 | 0 42 | 21 53 | 0 3 | 21 33 | 1 38 | 19 17 | 19 22 | 19 46 | | n.a. |
| W15 | 18 5 | 21 5 | 1 54 | 16 26 | 1 30 | 21 57 | 1 45 | 12 3 | 1 57 | 14 44 | 1 26 | 15 46 | 1 40 | 18 20 | 0 42 | 21 53 | 0 3 | 21 33 | 1 38 | 19 17 | 19 21 | 19 47 | | n.a. |
| T 16 | 18 21 | 20 49 | 2 52 | 15 46 | 1 48 | 21 35 | 1 30 | 11 52 | 1 58 | 14 42 | 1 25 | 15 46 | 1 41 | 18 20 | 0 42 | 21 53 | 0 3 | 21 33 | 1 38 | 19 18 | 19 20 | 19 47 | | n.a. |
| F 17 | 18 37 | 19 36 | 3 44 | 15 9 | 2 4 | 21 13 | 1 15 | 11 42 | 1 59 | 14 40 | 1 25 | 15 46 | 1 41 | 18 20 | 0 42 | 21 53 | 0 3 | 21 33 | 1 38 | 19 18 | 19 20 | 19 48 | | n.a. |
| S 18 | 18 53 | 17 30 | 4 26 | 14 35 | 2 18 | 20 50 | 1 0 | 11 31 | 2 0 | 14 38 | 1 25 | 15 45 | 1 41 | 18 20 | 0 42 | 21 53 | 0 3 | 21 33 | 1 38 | 19 18 | 19 19 | 19 48 | | n.a. |
| S 19 | 19 8 | 14 35 | 4 57 | 14 5 | 2 30 | 20 27 | 0 44 | 11 20 | 2 0 | 14 36 | 1 25 | 15 45 | 1 42 | 18 20 | 0 42 | 21 53 | 0 3 | 21 33 | 1 38 | 19 18 | 19 18 | 19 49 | | n.a. |
| M20 | 19 23 | 10 57 | 5 15 | 13 40 | 2 39 | 20 3 | 0 29 | 11 10 | 2 1 | 14 34 | 1 24 | 15 44 | 1 42 | 18 20 | 0 42 | 21 54 | 0 3 | 21 33 | 1 37 | 19 18 | 19 17 | 19 50 | | n.a. |
| T 21 | 19 38 | 6 43 | 5 17 | 13 19 | 2 46 | 19 39 | 0 13 | 10 59 | 2 2 | 14 32 | 1 24 | 15 44 | 1 42 | 18 20 | 0 42 | 21 54 | 0 3 | 21 33 | 1 37 | 19 18 | 19 16 | 19 50 | | n.a. |
| W22 | 19 52 | 2 3 | 5 3 | 13 4 | 2 51 | 19 15 | 0n 2 | 10 49 | 2 3 | 14 29 | 1 24 | 15 44 | 1 42 | 18 20 | 0 43 | 21 54 | 0 3 | 21 33 | 1 37 | 19 18 | 19 16 | 19 51 | | n.a. |
| T 23 | 20 6 | 2n52 | 4 32 | 12 54 | 2 55 | 18 51 | 0 18 | 10 38 | 2 4 | 14 27 | 1 24 | 15 44 | 1 43 | 18 20 | 0 43 | 21 54 | 0 3 | 21 33 | 1 37 | 19 18 | 19 15 | 19 51 | | n.a. |
| F 24 | 20 19 | 7 49 | 3 43 | 12 49 | 2 56 | 18 28 | 0 33 | 10 27 | 2 5 | 14 25 | 1 24 | 15 43 | 1 43 | 18 21 | 0 43 | 21 54 | 0 3 | 21 32 | 1 37 | 19 18 | 19 14 | 19 52 | | n.a. |
| S 25 | 20 32 | 12 27 | 2 38 | 12 49 | 2 56 | 18 4 | 0 49 | 10 17 | 2 5 | 14 22 | 1 23 | 15 43 | 1 43 | 18 21 | 0 43 | 21 54 | 0 3 | 21 32 | 1 37 | 19 18 | 19 13 | 19 53 | | n.a. |
| S 26 | 20 45 | 16 26 | 1 21 | 12 53 | 2 54 | 17 41 | 1 4 | 10 6 | 2 6 | 14 20 | 1 23 | 15 43 | 1 43 | 18 21 | 0 43 | 21 54 | 0 3 | 21 32 | 1 37 | 19 18 | 19 13 | 19 53 | | n.a. |
| M27 | 20 57 | 19 22 | 0s 2 | 13 0 | 2 51 | 17 19 | 1 18 | 9 56 | 2 7 | 14 17 | 1 23 | 15 43 | 1 44 | 18 21 | 0 43 | 21 55 | 0 3 | 21 32 | 1 37 | 19 18 | 19 12 | 19 54 | | n.a. |
| T 28 | 21 9 | 20 55 | 1 26 | 13 11 | 2 47 | 16 57 | 1 33 | 9 46 | 2 8 | 14 15 | 1 23 | 15 43 | 1 44 | 18 21 | 0 43 | 21 55 | 0 3 | 21 32 | 1 37 | 19 18 | 19 11 | 19 54 | | n.a. |
| W29 | 21 20 | 20 55 | 2 43 | 13 25 | 2 42 | 16 36 | 1 47 | 9 35 | 2 9 | 14 12 | 1 22 | 15 43 | 1 44 | 18 21 | 0 43 | 21 55 | 0 3 | 21 32 | 1 37 | 19 18 | 19 10 | 19 55 | | n.a. |
| T 30 | 21s31 | 19n27 | 3s48 | 13s42 | 2n37 | 16s16 | 2n 0 | 9n25 | 2n10 | 14s 9 | 1s22 | 15n43 | 1n44 | 18n22 | 0n43 | 21n55 | 0n 3 | 21n32 | 1s37 | 19s18 | 19s 9 | 19s55 | | n.a. |

Julian Day Number = 1701638.5, Delta T = 03h05m16s
Ecliptic obliquity = 23°42'01, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°48'41, Lahiri = - 4°41'41 Julian Calendar 1 Nov. 55 BCE == Greg. Calendar 30 Oct. 055 BCE

The year -54 astronomical counting style corresponds to year 055 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 55 BCE
# geocentric

## DECEMBER 55 BCE (-54) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 4 27 42 | 6♐53'18 | 25♋38 | 14♏39 | 20°R34 | 11♍44 | 26♒28 | 22♌46 | 10°R56 | 22°R 3 | 17°R54 | 25°R16 | 24♏41 | 0♐14 | n.a. | F 1 |
| S 2 | 4 31 39 | 7°54'33 | 9♌44 | 15°27 | 20♏12 | 12°13 | 26°35 | 22°47 | 10♌55 | 22♋ 2 | 17♊53 | 25♏15 | 24°38 | 0°21 | n.a. | S 2 |
| S 3 | 4 35 35 | 8°55'47 | 23°22 | 16°20 | 19°51 | 12°41 | 26°43 | 22°47 | 10°55 | 22° 1 | 17°52 | 25°14 | 24°34 | 0°27 | n.a. | S 3 |
| M 4 | 4 39 32 | 9°57'02 | 6♍32 | 17°17 | 19°33 | 13° 9 | 26°51 | 22°47 | 10°54 | 22° 0 | 17°50 | 25°D13 | 24°31 | 0°34 | n.a. | M 4 |
| T 5 | 4 43 28 | 10°58'17 | 19°19 | 18°17 | 19°17 | 13°37 | 26°59 | 22°R47 | 10°53 | 21°59 | 17°49 | 25°13 | 24°28 | 0°41 | n.a. | T 5 |
| W 6 | 4 47 25 | 11°59'32 | 1♎45 | 19°20 | 19° 4 | 14° 5 | 27° 7 | 22°47 | 10°52 | 21°58 | 17°48 | 25°14 | 24°25 | 0°47 | n.a. | W 6 |
| T 7 | 4 51 21 | 13° 0'47 | 13°56 | 20°27 | 18°54 | 14°32 | 27°15 | 22°47 | 10°51 | 21°56 | 17°47 | 25°15 | 24°22 | 0°54 | n.a. | T 7 |
| F 8 | 4 55 18 | 14° 2'03 | 25°54 | 21°36 | 18°45 | 15° 0 | 27°23 | 22°47 | 10°50 | 21°55 | 17°45 | 25°17 | 24°18 | 1° 0 | n.a. | F 8 |
| S 9 | 4 59 15 | 15° 3'18 | 7♏46 | 22°47 | 18°40 | 15°27 | 27°32 | 22°47 | 10°49 | 21°54 | 17°44 | 25°19 | 24°15 | 1° 7 | n.a. | S 9 |
| S 10 | 5 3 11 | 16° 4'33 | 19°33 | 24° 0 | 18°37 | 15°54 | 27°41 | 22°46 | 10°48 | 21°53 | 17°43 | 25°R19 | 24°12 | 1°14 | n.a. | S 10 |
| M11 | 5 7 8 | 17° 5'48 | 1♐19 | 25°15 | 18°D36 | 16°21 | 27°50 | 22°46 | 10°47 | 21°51 | 17°42 | 25°19 | 24° 9 | 1°20 | n.a. | M11 |
| T 12 | 5 11 4 | 18° 7'03 | 13° 8 | 26°31 | 18°38 | 16°47 | 27°59 | 22°45 | 10°46 | 21°50 | 17°40 | 25°18 | 24° 6 | 1°27 | n.a. | T 12 |
| W13 | 5 15 1 | 19° 8'17 | 25° 0 | 27°49 | 18°42 | 17°13 | 28° 8 | 22°44 | 10°44 | 21°49 | 17°39 | 25°16 | 24° 3 | 1°34 | n.a. | W13 |
| T 14 | 5 18 57 | 20° 9'31 | 6♑58 | 29° 8 | 18°48 | 17°39 | 28°17 | 22°43 | 10°43 | 21°47 | 17°38 | 25°12 | 23°59 | 1°40 | n.a. | T 14 |
| F 15 | 5 22 54 | 21°10'45 | 19° 4 | 0♐29 | 18°57 | 18° 5 | 28°26 | 22°42 | 10°42 | 21°46 | 17°37 | 25° 8 | 23°56 | 1°47 | n.a. | F 15 |
| S 16 | 5 26 50 | 22°11'57 | 1♒18 | 1°50 | 19° 8 | 18°31 | 28°36 | 22°41 | 10°40 | 21°45 | 17°35 | 25° 3 | 23°53 | 1°54 | n.a. | S 16 |
| S 17 | 5 30 47 | 23°13'09 | 13°44 | 3°13 | 19°21 | 18°56 | 28°45 | 22°40 | 10°39 | 21°43 | 17°34 | 24°58 | 23°50 | 2° 0 | n.a. | S 17 |
| M18 | 5 34 44 | 24°14'20 | 26°24 | 4°37 | 19°36 | 19°21 | 28°55 | 22°39 | 10°37 | 21°42 | 17°33 | 24°54 | 23°47 | 2° 7 | n.a. | M18 |
| T 19 | 5 38 40 | 25°15'31 | 9♓19 | 6° 1 | 19°54 | 19°46 | 29° 5 | 22°37 | 10°36 | 21°40 | 17°32 | 24°52 | 23°44 | 2°14 | n.a. | T 19 |
| W20 | 5 42 37 | 26°16'40 | 22°32 | 7°26 | 20°13 | 20°10 | 29°15 | 22°36 | 10°34 | 21°39 | 17°30 | 24°D50 | 23°40 | 2°20 | n.a. | W20 |
| T 21 | 5 46 33 | 27°17'48 | 6♈ 5 | 8°52 | 20°34 | 20°34 | 29°25 | 22°34 | 10°32 | 21°37 | 17°29 | 24°51 | 23°37 | 2°27 | n.a. | T 21 |
| F 22 | 5 50 30 | 28°18'55 | 20° 1 | 10°19 | 20°57 | 20°58 | 29°36 | 22°33 | 10°31 | 21°36 | 17°28 | 24°52 | 23°34 | 2°34 | n.a. | F 22 |
| S 23 | 5 54 26 | 29°20'02 | 4♉18 | 11°47 | 21°22 | 21°22 | 29°46 | 22°31 | 10°29 | 21°34 | 17°27 | 24°54 | 23°31 | 2°40 | n.a. | S 23 |
| S 24 | 5 58 23 | 0♑21'07 | 18°56 | 13°15 | 21°49 | 21°45 | 29°56 | 22°29 | 10°27 | 21°33 | 17°25 | 24°R55 | 23°28 | 2°47 | n.a. | S 24 |
| M25 | 6 2 19 | 1°22'11 | 3♊50 | 14°44 | 22°17 | 22° 9 | 0♓ 7 | 22°27 | 10°25 | 21°31 | 17°24 | 24°54 | 23°24 | 2°53 | n.a. | M25 |
| T 26 | 6 6 16 | 2°23'14 | 18°55 | 16°14 | 22°47 | 22°31 | 0°18 | 22°25 | 10°24 | 21°30 | 17°23 | 24°52 | 23°21 | 3° 0 | n.a. | T 26 |
| W27 | 6 10 13 | 3°24'16 | 4♋ 0 | 17°44 | 23°19 | 22°54 | 0°29 | 22°22 | 10°22 | 21°28 | 17°22 | 24°49 | 23°18 | 3° 7 | n.a. | W27 |
| T 28 | 6 14 9 | 4°25'17 | 18°57 | 19°15 | 23°52 | 23°16 | 0°39 | 22°20 | 10°20 | 21°26 | 17°20 | 24°43 | 23°15 | 3°13 | n.a. | T 28 |
| F 29 | 6 18 6 | 5°26'17 | 3♌37 | 20°47 | 24°26 | 23°38 | 0°50 | 22°18 | 10°18 | 21°25 | 17°19 | 24°37 | 23°12 | 3°20 | n.a. | F 29 |
| S 30 | 6 22 2 | 6°27'17 | 17°54 | 22°19 | 25° 2 | 23°59 | 1° 2 | 22°15 | 10°16 | 21°23 | 17°18 | 24°30 | 23° 9 | 3°27 | n.a. | S 30 |
| S 31 | 6 25 59 | 7♑28'15 | 1♍42 | 23♐52 | 25♏39 | 24♍21 | 1♓13 | 22♌13 | 10♌14 | 21♋22 | 17♊17 | 24♏24 | 23♏ 5 | 3♐33 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| F 1 | 21s42 | 16n43 | 4s36 | 14s 0 | 2n31 | 15s57 | 2n13 | 9n15 | 2n11 | 14s 7 | 1s22 | 15n43 | 1n45 | 18n22 | 0n43 | 21n55 | 0n 3 | 21n32 | 1s37 | 19s17 | 19s 9 | 19s56 | | n.a. | |
| S 2 | 21 52 | 13 6 | 5 6 | 14 21 | 2 24 | 15 39 | 2 26 | 9 4 | 2 11 | 14 4 | 1 22 | 15 43 | 1 45 | 18 22 | 0 43 | 21 56 | 0 3 | 21 32 | 1 37 | 19 17 | 19 8 | 19 57 | | n.a. | |
| S 3 | 22 2 | 8 53 | 5 17 | 14 43 | 2 17 | 15 22 | 2 38 | 8 54 | 2 12 | 14 1 | 1 21 | 15 43 | 1 45 | 18 22 | 0 43 | 21 56 | 0 3 | 21 32 | 1 37 | 19 17 | 19 7 | 19 57 | | n.a. | |
| M 4 | 22 11 | 4 23 | 5 11 | 15 6 | 2 10 | 15 6 | 2 49 | 8 44 | 2 13 | 13 58 | 1 21 | 15 44 | 1 45 | 18 23 | 0 43 | 21 56 | 0 3 | 21 32 | 1 37 | 19 17 | 19 6 | 19 58 | | n.a. | |
| T 5 | 22 20 | 0s10 | 4 50 | 15 30 | 2 2 | 14 51 | 3 0 | 8 34 | 2 14 | 13 55 | 1 21 | 15 44 | 1 46 | 18 23 | 0 43 | 21 56 | 0 3 | 21 32 | 1 37 | 19 17 | 19 6 | 19 58 | | n.a. | |
| W 6 | 22 28 | 4 36 | 4 15 | 15 55 | 1 54 | 14 38 | 3 10 | 8 24 | 2 15 | 13 52 | 1 21 | 15 44 | 1 46 | 18 23 | 0 43 | 21 56 | 0 3 | 21 32 | 1 37 | 19 17 | 19 5 | 19 59 | | n.a. | |
| T 7 | 22 36 | 8 46 | 3 30 | 16 21 | 1 46 | 14 25 | 3 20 | 8 14 | 2 16 | 13 49 | 1 21 | 15 44 | 1 46 | 18 23 | 0 43 | 21 57 | 0 3 | 21 32 | 1 37 | 19 17 | 19 4 | 19 59 | | n.a. | |
| F 8 | 22 44 | 12 32 | 2 36 | 16 47 | 1 38 | 14 14 | 3 29 | 8 4 | 2 17 | 13 46 | 1 20 | 15 45 | 1 46 | 18 24 | 0 43 | 21 57 | 0 3 | 21 32 | 1 37 | 19 18 | 19 3 | 20 0 | | n.a. | |
| S 9 | 22 51 | 15 45 | 1 36 | 17 13 | 1 30 | 14 4 | 3 38 | 7 54 | 2 18 | 13 43 | 1 20 | 15 45 | 1 47 | 18 24 | 0 43 | 21 57 | 0 3 | 21 32 | 1 36 | 19 18 | 19 2 | 20 0 | | n.a. | |
| S 10 | 22 58 | 18 19 | 0 32 | 17 39 | 1 22 | 13 56 | 3 46 | 7 45 | 2 19 | 13 40 | 1 20 | 15 45 | 1 47 | 18 24 | 0 43 | 21 57 | 0 3 | 21 32 | 1 36 | 19 18 | 19 2 | 20 1 | | n.a. | |
| M11 | 23 4 | 20 7 | 0n33 | 18 6 | 1 14 | 13 48 | 3 54 | 7 35 | 2 20 | 13 36 | 1 20 | 15 46 | 1 47 | 18 25 | 0 43 | 21 57 | 0 3 | 21 31 | 1 36 | 19 18 | 19 1 | 20 1 | | n.a. | |
| T 12 | 23 10 | 21 1 | 1 37 | 18 32 | 1 5 | 13 42 | 4 1 | 7 26 | 2 20 | 13 33 | 1 20 | 15 46 | 1 47 | 18 25 | 0 43 | 21 58 | 0 3 | 21 31 | 1 36 | 19 18 | 19 0 | 20 2 | | n.a. | |
| W13 | 23 15 | 21 0 | 2 36 | 18 58 | 0 57 | 13 37 | 4 7 | 7 16 | 2 21 | 13 29 | 1 19 | 15 47 | 1 48 | 18 26 | 0 43 | 21 58 | 0 3 | 21 31 | 1 36 | 19 17 | 18 59 | 20 2 | | n.a. | |
| T 14 | 23 20 | 20 1 | 3 30 | 19 23 | 0 49 | 13 33 | 4 13 | 7 7 | 2 22 | 13 26 | 1 19 | 15 47 | 1 48 | 18 26 | 0 43 | 21 58 | 0 3 | 21 31 | 1 36 | 19 16 | 18 58 | 20 3 | | n.a. | |
| F 15 | 23 24 | 18 8 | 4 14 | 19 49 | 0 41 | 13 30 | 4 19 | 6 57 | 2 23 | 13 23 | 1 19 | 15 48 | 1 48 | 18 26 | 0 43 | 21 58 | 0 3 | 21 31 | 1 36 | 19 15 | 18 58 | 20 3 | | n.a. | |
| S 16 | 23 28 | 15 25 | 4 47 | 20 13 | 0 33 | 13 28 | 4 24 | 6 48 | 2 24 | 13 19 | 1 19 | 15 48 | 1 48 | 18 27 | 0 43 | 21 59 | 0 3 | 21 31 | 1 36 | 19 14 | 18 57 | 20 4 | | n.a. | |
| S 17 | 23 31 | 11 58 | 5 8 | 20 38 | 0 25 | 13 27 | 4 28 | 6 39 | 2 25 | 13 15 | 1 19 | 15 49 | 1 49 | 18 27 | 0 44 | 21 59 | 0 3 | 21 31 | 1 36 | 19 13 | 18 56 | 20 4 | | n.a. | |
| M18 | 23 34 | 7 57 | 5 13 | 21 1 | 0 17 | 13 27 | 4 32 | 6 30 | 2 26 | 13 12 | 1 18 | 15 50 | 1 49 | 18 28 | 0 44 | 21 59 | 0 3 | 21 31 | 1 36 | 19 12 | 18 55 | 20 5 | | n.a. | |
| T 19 | 23 37 | 3 29 | 5 4 | 21 24 | 0 9 | 13 29 | 4 36 | 6 21 | 2 27 | 13 8 | 1 18 | 15 50 | 1 49 | 18 28 | 0 44 | 21 59 | 0 3 | 21 31 | 1 36 | 19 11 | 18 54 | 20 5 | | n.a. | |
| W20 | 23 39 | 1n15 | 4 38 | 21 46 | 0 1 | 13 31 | 4 39 | 6 12 | 2 28 | 13 4 | 1 18 | 15 51 | 1 49 | 18 29 | 0 44 | 22 0 | 0 3 | 21 31 | 1 36 | 19 11 | 18 54 | 20 6 | | n.a. | |
| T 21 | 23 40 | 6 3 | 3 56 | 22 7 | 0s 6 | 13 33 | 4 42 | 6 3 | 2 29 | 13 1 | 1 18 | 15 52 | 1 50 | 18 29 | 0 44 | 22 0 | 0 3 | 21 31 | 1 36 | 19 11 | 18 53 | 20 6 | | n.a. | |
| F 22 | 23 41 | 10 40 | 2 59 | 22 28 | 0 13 | 13 37 | 4 44 | 5 55 | 2 30 | 12 57 | 1 18 | 15 53 | 1 50 | 18 30 | 0 44 | 22 0 | 0 3 | 21 31 | 1 36 | 19 11 | 18 52 | 20 7 | | n.a. | |
| S 23 | 23 42 | 14 49 | 1 50 | 22 47 | 0 21 | 13 42 | 4 47 | 5 46 | 2 31 | 12 53 | 1 17 | 15 54 | 1 50 | 18 30 | 0 44 | 22 0 | 0 3 | 21 31 | 1 36 | 19 12 | 18 51 | 20 7 | | n.a. | |
| S 24 | 23 42 | 18 10 | 0 33 | 23 6 | 0 28 | 13 47 | 4 48 | 5 38 | 2 32 | 12 49 | 1 17 | 15 54 | 1 50 | 18 31 | 0 44 | 22 1 | 0 3 | 21 31 | 1 35 | 19 12 | 18 50 | 20 7 | | n.a. | |
| M25 | 23 42 | 20 21 | 0s49 | 23 23 | 0 35 | 13 53 | 4 50 | 5 29 | 2 33 | 12 45 | 1 17 | 15 55 | 1 51 | 18 31 | 0 44 | 22 1 | 0 3 | 21 31 | 1 35 | 19 12 | 18 50 | 20 8 | | n.a. | |
| T 26 | 23 41 | 21 7 | 2 7 | 23 40 | 0 41 | 13 59 | 4 51 | 5 21 | 2 34 | 12 41 | 1 17 | 15 56 | 1 51 | 18 32 | 0 44 | 22 1 | 0 3 | 21 31 | 1 35 | 19 12 | 18 49 | 20 8 | | n.a. | |
| W27 | 23 39 | 20 22 | 3 17 | 23 55 | 0 48 | 14 6 | 4 51 | 5 13 | 2 35 | 12 37 | 1 17 | 15 57 | 1 51 | 18 32 | 0 44 | 22 1 | 0 3 | 21 31 | 1 35 | 19 11 | 18 48 | 20 9 | | n.a. | |
| T 28 | 23 38 | 18 11 | 4 12 | 24 9 | 0 54 | 14 14 | 4 52 | 5 5 | 2 36 | 12 33 | 1 17 | 15 58 | 1 51 | 18 33 | 0 44 | 22 2 | 0 3 | 21 31 | 1 35 | 19 9 | 18 47 | 20 9 | | n.a. | |
| F 29 | 23 35 | 14 51 | 4 50 | 24 22 | 1 0 | 14 22 | 4 52 | 4 57 | 2 37 | 12 29 | 1 16 | 15 59 | 1 52 | 18 33 | 0 44 | 22 2 | 0 3 | 21 31 | 1 35 | 19 8 | 18 46 | 20 10 | | n.a. | |
| S 30 | 23 32 | 10 45 | 5 8 | 24 34 | 1 6 | 14 31 | 4 52 | 4 50 | 2 38 | 12 25 | 1 16 | 16 0 | 1 52 | 18 34 | 0 44 | 22 2 | 0 3 | 21 31 | 1 35 | 19 6 | 18 46 | 20 10 | | n.a. | |
| S 31 | 23s29 | 6n12 | 5s 8 | 24s45 | 1s11 | 14s40 | 4n51 | 4n42 | 2n39 | 12s21 | 1s16 | 16n 1 | 1n52 | 18n35 | 0n44 | 22n 2 | 0n 4 | 21n31 | 1s35 | 19s 5 | 18s45 | 20s10 | | n.a. | |

Julian Day Number = 1701668.5, Delta T = 03h05m15s
Ecliptic obliquity = 23°42'00, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°48'37, Lahiri = - 4°41'36 Julian Calendar 1 Dec. 55 BCE == Greg. Calendar 29 Nov. 055 BCE

The year -54 astronomical counting style corresponds to year 055 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 54 BCE
# geocentric

## JANUARY 54 BCE (-53) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 6 29 55 | 8♑29'12 | 15♍ 1 | 25♐26 | 26♏18 | 24♍42 | 1♓24 | 22°R10 | 10°R12 | 21°R20 | 17°R16 | 24°R19 | 23♏ 2 | 3♐40 | n.a. | M 1 |
| T 2 | 6 33 52 | 9°30'09 | 27°54 | 27° 0 | 26°58 | 25° 2 | 1°36 | 22♌ 7 | 10♌10 | 21♋18 | 17♊15 | 24♏17 | 22°59 | 3°47 | n.a. | T 2 |
| W 3 | 6 37 49 | 10°31'05 | 10♎23 | 28°35 | 27°38 | 25°22 | 1°47 | 22° 4 | 10° 7 | 21°17 | 17°13 | 24°D16 | 22°56 | 3°53 | n.a. | W 3 |
| T 4 | 6 41 45 | 11°31'59 | 22°34 | 0♑11 | 28°21 | 25°42 | 1°59 | 22° 1 | 10° 5 | 21°15 | 17°12 | 24°16 | 22°53 | 4° 0 | n.a. | T 4 |
| F 5 | 6 45 42 | 12°32'53 | 4♏31 | 1°48 | 29° 4 | 26° 1 | 2°10 | 21°58 | 10° 3 | 21°13 | 17°11 | 24°18 | 22°50 | 4° 7 | n.a. | F 5 |
| S 6 | 6 49 38 | 13°33'46 | 16°20 | 3°25 | 29°48 | 26°20 | 2°22 | 21°55 | 10° 1 | 21°12 | 17°10 | 24°19 | 22°46 | 4°13 | n.a. | S 6 |
| S 7 | 6 53 35 | 14°34'38 | 28° 6 | 5° 3 | 0♐33 | 26°39 | 2°34 | 21°52 | 9°59 | 21°10 | 17° 9 | 24°R19 | 22°43 | 4°20 | n.a. | S 7 |
| M 8 | 6 57 31 | 15°35'29 | 9♐52 | 6°41 | 1°19 | 26°57 | 2°46 | 21°49 | 9°56 | 21° 8 | 17° 8 | 24°18 | 22°40 | 4°27 | n.a. | M 8 |
| T 9 | 7 1 28 | 16°36'18 | 21°44 | 8°21 | 2° 6 | 27°15 | 2°58 | 21°45 | 9°54 | 21° 7 | 17° 7 | 24°14 | 22°37 | 4°33 | n.a. | T 9 |
| W10 | 7 5 24 | 17°37'07 | 3♑43 | 10° 1 | 2°54 | 27°32 | 3°10 | 21°42 | 9°52 | 21° 5 | 17° 6 | 24° 8 | 22°34 | 4°40 | n.a. | W10 |
| T 11 | 7 9 21 | 18°37'53 | 15°52 | 11°42 | 3°43 | 27°49 | 3°23 | 21°38 | 9°49 | 21° 3 | 17° 5 | 23°59 | 22°30 | 4°47 | n.a. | T 11 |
| F 12 | 7 13 18 | 19°38'39 | 28°12 | 13°24 | 4°32 | 28° 6 | 3°35 | 21°35 | 9°47 | 21° 2 | 17° 3 | 23°49 | 22°27 | 4°53 | n.a. | F 12 |
| S 13 | 7 17 14 | 20°39'23 | 10♒43 | 15° 7 | 5°22 | 28°22 | 3°47 | 21°31 | 9°44 | 21° 0 | 17° 2 | 23°38 | 22°24 | 5° 0 | n.a. | S 13 |
| S 14 | 7 21 11 | 21°40'05 | 23°26 | 16°50 | 6°14 | 28°38 | 4° 0 | 21°27 | 9°42 | 20°58 | 17° 1 | 23°27 | 22°21 | 5° 6 | n.a. | S 14 |
| M15 | 7 25 7 | 22°40'46 | 6♓21 | 18°34 | 7° 5 | 28°53 | 4°12 | 21°23 | 9°40 | 20°57 | 17° 0 | 23°17 | 22°18 | 5°13 | n.a. | M15 |
| T 16 | 7 29 4 | 23°41'24 | 19°28 | 20°20 | 7°58 | 29° 7 | 4°25 | 21°20 | 9°37 | 20°55 | 16°59 | 23°10 | 22°15 | 5°20 | n.a. | T 16 |
| W17 | 7 33 0 | 24°42'01 | 2♈47 | 22° 6 | 8°51 | 29°21 | 4°38 | 21°16 | 9°35 | 20°53 | 16°58 | 23° 5 | 22°11 | 5°26 | n.a. | W17 |
| T 18 | 7 36 57 | 25°42'36 | 16°20 | 23°52 | 9°45 | 29°35 | 4°51 | 21°12 | 9°32 | 20°51 | 16°58 | 23° 3 | 22° 8 | 5°33 | n.a. | T 18 |
| F 19 | 7 40 53 | 26°43'09 | 0♉ 7 | 25°40 | 10°39 | 29°48 | 5° 3 | 21° 7 | 9°30 | 20°50 | 16°57 | 23°D 3 | 22° 5 | 5°40 | n.a. | F 19 |
| S 20 | 7 44 50 | 27°43'41 | 14°10 | 27°29 | 11°34 | 0♎ 1 | 5°16 | 21° 3 | 9°27 | 20°48 | 16°56 | 23° 3 | 22° 2 | 5°46 | n.a. | S 20 |
| S 21 | 7 48 47 | 28°44'10 | 28°27 | 29°18 | 12°29 | 0°13 | 5°29 | 20°59 | 9°24 | 20°46 | 16°55 | 23°R 3 | 21°59 | 5°53 | n.a. | S 21 |
| M22 | 7 52 43 | 29°44'37 | 12♊58 | 1♒ 8 | 13°25 | 0°24 | 5°42 | 20°55 | 9°22 | 20°45 | 16°54 | 23° 2 | 21°56 | 6° 0 | n.a. | M22 |
| T 23 | 7 56 40 | 0♒45'02 | 27°38 | 2°59 | 14°22 | 0°36 | 5°55 | 20°51 | 9°19 | 20°43 | 16°53 | 22°58 | 21°52 | 6° 6 | n.a. | T 23 |
| W24 | 8 0 36 | 1°45'26 | 12♋22 | 4°51 | 15°19 | 0°46 | 6° 9 | 20°46 | 9°17 | 20°41 | 16°52 | 22°51 | 21°49 | 6°13 | n.a. | W24 |
| T 25 | 8 4 33 | 2°45'47 | 27° 3 | 6°44 | 16°16 | 0°56 | 6°22 | 20°42 | 9°14 | 20°40 | 16°51 | 22°42 | 21°46 | 6°20 | n.a. | T 25 |
| F 26 | 8 8 29 | 3°46'07 | 11♌33 | 8°36 | 17°14 | 1° 5 | 6°35 | 20°38 | 9°12 | 20°38 | 16°50 | 22°31 | 21°43 | 6°26 | n.a. | F 26 |
| S 27 | 8 12 26 | 4°46'25 | 25°44 | 10°30 | 18°13 | 1°14 | 6°48 | 20°33 | 9° 9 | 20°37 | 16°50 | 22°19 | 21°40 | 6°33 | n.a. | S 27 |
| S 28 | 8 16 22 | 5°46'41 | 9♍32 | 12°24 | 19°12 | 1°22 | 7° 2 | 20°29 | 9° 6 | 20°35 | 16°49 | 22° 8 | 21°36 | 6°40 | n.a. | S 28 |
| M29 | 8 20 19 | 6°46'55 | 22°55 | 14°18 | 20°11 | 1°29 | 7°15 | 20°24 | 9° 4 | 20°33 | 16°48 | 21°59 | 21°33 | 6°46 | n.a. | M29 |
| T 30 | 8 24 16 | 7°47'08 | 5♎51 | 16°12 | 21°11 | 1°36 | 7°29 | 20°20 | 9° 1 | 20°32 | 16°47 | 21°53 | 21°30 | 6°53 | n.a. | T 30 |
| W31 | 8 28 12 | 8♒47'19 | 18♎25 | 18♒ 6 | 22♐11 | 1♎42 | 7♓42 | 20♌15 | 8♌58 | 20♋30 | 16♊47 | 21♏49 | 21♏27 | 7♐ 0 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| M 1 | 23s25 | 1n30 | 4s50 | 24s54 | 1s17 | 14s49 | 4n51 | 4n35 | 2n40 | 12s16 | 1s16 | 16n 2 | 1n52 | 18n35 | 0n44 | 22n 3 | 0n 4 | 21n30 | 1s35 | 19s 3 | 18s44 | 20s11 | | | n.a. |
| T 2 | 23 21 | 3s 6 | 4 19 | 25 2 | 1 22 | 14 59 | 4 50 | 4 27 | 2 41 | 12 12 | 1 16 | 16 4 | 1 52 | 18 36 | 0 44 | 22 3 | 0 4 | 21 30 | 1 35 | 19 3 | 18 43 | 20 11 | | | n.a. |
| W 3 | 23 17 | 7 27 | 3 35 | 25 8 | 1 27 | 15 10 | 4 49 | 4 20 | 2 42 | 12 8 | 1 16 | 16 5 | 1 53 | 18 36 | 0 44 | 22 3 | 0 4 | 21 30 | 1 35 | 19 3 | 18 42 | 20 12 | | | n.a. |
| T 4 | 23 12 | 11 24 | 2 43 | 25 13 | 1 31 | 15 20 | 4 47 | 4 13 | 2 43 | 12 3 | 1 15 | 16 6 | 1 53 | 18 37 | 0 44 | 22 4 | 0 4 | 21 30 | 1 35 | 19 3 | 18 42 | 20 12 | | | n.a. |
| F 5 | 23 6 | 14 49 | 1 45 | 25 17 | 1 36 | 15 31 | 4 46 | 4 7 | 2 45 | 11 59 | 1 15 | 16 7 | 1 53 | 18 38 | 0 44 | 22 4 | 0 4 | 21 30 | 1 35 | 19 3 | 18 41 | 20 12 | | | n.a. |
| S 6 | 23 0 | 17 35 | 0 43 | 25 19 | 1 40 | 15 42 | 4 44 | 4 0 | 2 46 | 11 55 | 1 15 | 16 8 | 1 53 | 18 38 | 0 44 | 22 4 | 0 4 | 21 30 | 1 34 | 19 3 | 18 40 | 20 13 | | | n.a. |
| S 7 | 22 54 | 19 37 | 0n20 | 25 20 | 1 44 | 15 53 | 4 42 | 3 53 | 2 47 | 11 50 | 1 15 | 16 10 | 1 54 | 18 39 | 0 44 | 22 4 | 0 4 | 21 30 | 1 34 | 19 3 | 18 39 | 20 13 | | | n.a. |
| M 8 | 22 47 | 20 48 | 1 23 | 25 19 | 1 47 | 16 5 | 4 40 | 3 47 | 2 48 | 11 46 | 1 15 | 16 11 | 1 54 | 18 40 | 0 44 | 22 5 | 0 4 | 21 30 | 1 34 | 19 3 | 18 38 | 20 14 | | | n.a. |
| T 9 | 22 39 | 21 4 | 2 22 | 25 16 | 1 50 | 16 16 | 4 38 | 3 41 | 2 49 | 11 41 | 1 15 | 16 12 | 1 54 | 18 40 | 0 44 | 22 5 | 0 4 | 21 30 | 1 34 | 19 2 | 18 37 | 20 14 | | | n.a. |
| W10 | 22 32 | 20 23 | 3 16 | 25 12 | 1 53 | 16 28 | 4 35 | 3 35 | 2 50 | 11 36 | 1 15 | 16 14 | 1 54 | 18 41 | 0 44 | 22 5 | 0 4 | 21 30 | 1 34 | 19 0 | 18 37 | 20 14 | | | n.a. |
| T 11 | 22 23 | 18 46 | 4 1 | 25 6 | 1 55 | 16 40 | 4 33 | 3 29 | 2 51 | 11 32 | 1 14 | 16 15 | 1 54 | 18 42 | 0 44 | 22 5 | 0 4 | 21 30 | 1 34 | 18 58 | 18 36 | 20 15 | | | n.a. |
| F 12 | 22 15 | 16 15 | 4 35 | 24 58 | 1 58 | 16 51 | 4 30 | 3 23 | 2 52 | 11 27 | 1 14 | 16 16 | 1 55 | 18 42 | 0 44 | 22 6 | 0 4 | 21 30 | 1 34 | 18 56 | 18 35 | 20 15 | | | n.a. |
| S 13 | 22 6 | 12 58 | 4 57 | 24 48 | 1 59 | 17 3 | 4 27 | 3 18 | 2 53 | 11 23 | 1 14 | 16 18 | 1 55 | 18 43 | 0 44 | 22 6 | 0 4 | 21 30 | 1 34 | 18 53 | 18 34 | 20 15 | | | n.a. |
| S 14 | 21 56 | 9 4 | 5 5 | 24 37 | 2 1 | 17 15 | 4 24 | 3 13 | 2 54 | 11 18 | 1 14 | 16 19 | 1 55 | 18 44 | 0 44 | 22 6 | 0 4 | 21 30 | 1 34 | 18 50 | 18 33 | 20 16 | | | n.a. |
| M15 | 21 46 | 4 41 | 4 57 | 24 24 | 2 1 | 17 27 | 4 21 | 3 8 | 2 55 | 11 13 | 1 14 | 16 20 | 1 55 | 18 44 | 0 44 | 22 7 | 0 4 | 21 30 | 1 34 | 18 48 | 18 33 | 20 16 | | | n.a. |
| T 16 | 21 36 | 0 2 | 4 34 | 24 9 | 2 2 | 17 39 | 4 17 | 3 3 | 2 56 | 11 8 | 1 14 | 16 22 | 1 55 | 18 45 | 0 44 | 22 7 | 0 4 | 21 30 | 1 34 | 18 46 | 18 32 | 20 16 | | | n.a. |
| W17 | 21 25 | 4n42 | 3 55 | 23 52 | 2 2 | 17 50 | 4 14 | 2 58 | 2 57 | 11 4 | 1 14 | 16 23 | 1 56 | 18 46 | 0 44 | 22 7 | 0 4 | 21 30 | 1 34 | 18 45 | 18 31 | 20 17 | | | n.a. |
| T 18 | 21 14 | 9 18 | 3 3 | 23 34 | 2 2 | 18 2 | 4 10 | 2 53 | 2 59 | 10 59 | 1 14 | 16 25 | 1 56 | 18 46 | 0 44 | 22 7 | 0 4 | 21 30 | 1 34 | 18 44 | 18 30 | 20 17 | | | n.a. |
| F 19 | 21 2 | 13 30 | 1 59 | 23 13 | 2 1 | 18 13 | 4 7 | 2 49 | 3 0 | 10 54 | 1 13 | 16 26 | 1 56 | 18 47 | 0 44 | 22 8 | 0 4 | 21 30 | 1 33 | 18 44 | 18 29 | 20 17 | | | n.a. |
| S 20 | 20 51 | 17 1 | 0 47 | 22 50 | 1 59 | 18 24 | 4 3 | 2 45 | 3 1 | 10 49 | 1 13 | 16 28 | 1 56 | 18 48 | 0 44 | 22 8 | 0 4 | 21 30 | 1 33 | 18 44 | 18 28 | 20 18 | | | n.a. |
| S 21 | 20 38 | 19 34 | 0s29 | 22 26 | 1 58 | 18 36 | 3 59 | 2 41 | 3 2 | 10 44 | 1 13 | 16 29 | 1 56 | 18 48 | 0 44 | 22 8 | 0 4 | 21 30 | 1 33 | 18 44 | 18 28 | 20 18 | | | n.a. |
| M22 | 20 26 | 20 53 | 1 44 | 22 0 | 1 55 | 18 46 | 3 55 | 2 38 | 3 3 | 10 39 | 1 13 | 16 31 | 1 56 | 18 49 | 0 44 | 22 8 | 0 4 | 21 30 | 1 33 | 18 44 | 18 27 | 20 18 | | | n.a. |
| T 23 | 20 12 | 20 48 | 2 53 | 21 31 | 1 52 | 18 57 | 3 51 | 2 34 | 3 4 | 10 34 | 1 13 | 16 32 | 1 57 | 18 50 | 0 44 | 22 9 | 0 4 | 21 30 | 1 33 | 18 43 | 18 26 | 20 19 | | | n.a. |
| W24 | 19 59 | 19 17 | 3 51 | 21 1 | 1 49 | 19 8 | 3 47 | 2 31 | 3 5 | 10 29 | 1 13 | 16 34 | 1 57 | 18 50 | 0 44 | 22 9 | 0 4 | 21 30 | 1 33 | 18 41 | 18 25 | 20 19 | | | n.a. |
| T 25 | 19 45 | 16 31 | 4 33 | 20 29 | 1 45 | 19 18 | 3 42 | 2 28 | 3 6 | 10 24 | 1 13 | 16 35 | 1 57 | 18 51 | 0 44 | 22 9 | 0 4 | 21 30 | 1 33 | 18 39 | 18 24 | 20 19 | | | n.a. |
| F 26 | 19 31 | 12 45 | 4 57 | 19 55 | 1 40 | 19 28 | 3 38 | 2 25 | 3 7 | 10 19 | 1 13 | 16 37 | 1 57 | 18 52 | 0 44 | 22 10 | 0 4 | 21 30 | 1 33 | 18 36 | 18 23 | 20 20 | | | n.a. |
| S 27 | 19 17 | 8 21 | 5 2 | 19 19 | 1 35 | 19 37 | 3 34 | 2 23 | 3 8 | 10 14 | 1 13 | 16 39 | 1 57 | 18 53 | 0 44 | 22 10 | 0 4 | 21 30 | 1 33 | 18 33 | 18 23 | 20 20 | | | n.a. |
| S 28 | 19 2 | 3 38 | 4 49 | 18 41 | 1 29 | 19 47 | 3 29 | 2 20 | 3 9 | 10 9 | 1 13 | 16 40 | 1 57 | 18 53 | 0 44 | 22 10 | 0 4 | 21 30 | 1 33 | 18 30 | 18 22 | 20 20 | | | n.a. |
| M29 | 18 47 | 1s 8 | 4 20 | 18 2 | 1 22 | 19 56 | 3 25 | 2 18 | 3 10 | 10 4 | 1 12 | 16 42 | 1 57 | 18 54 | 0 44 | 22 10 | 0 4 | 21 30 | 1 33 | 18 28 | 18 21 | 20 21 | | | n.a. |
| T 30 | 18 31 | 5 41 | 3 38 | 17 21 | 1 15 | 20 4 | 3 20 | 2 16 | 3 11 | 9 58 | 1 12 | 16 43 | 1 58 | 18 55 | 0 45 | 22 11 | 0 4 | 21 30 | 1 32 | 18 26 | 18 20 | 20 21 | | | n.a. |
| W31 | 18s16 | 9s52 | 2s47 | 16s38 | 1s 7 | 20s13 | 3n16 | 2n15 | 3n12 | 9s53 | 1s12 | 16n45 | 1n58 | 18n55 | 0n45 | 22n11 | 0n 4 | 21n30 | 1s32 | 18s25 | 18s19 | 20s21 | | | n.a. |

Julian Day Number = 1701699.5, Delta T = 03h05m14s
Ecliptic obliquity = 23°42'00, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°48'33, Lahiri = - 4°41'32 Julian Calendar 1 Jan. 54 BCE == Greg. Calendar 30 Dec. 055 BCE

The year -53 astronomical counting style corresponds to year 054 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 54 BCE
# geocentric

## FEBRUARY 54 BCE (-53) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 32 9 | 9♒47'28 | 0♏38 | 19♒59 | 23♐11 | 1♎48 | 7♓56 | 20°R10 | 8°R56 | 20°R29 | 16°R46 | 21°R47 | 21♏24 | 7♐ 6 | n.a. | T 1 |
| F 2 | 8 36 5 | 10°47'36 | 12°37 | 21°52 | 24°12 | 1°53 | 8° 9 | 20♌ 6 | 8♌53 | 20♋27 | 16♊45 | 21°D47 | 21°21 | 7°13 | n.a. | F 2 |
| S 3 | 8 40 2 | 11°47'42 | 24°28 | 23°44 | 25°13 | 1°57 | 8°23 | 20° 1 | 8°51 | 20°25 | 16°45 | 21°R47 | 21°17 | 7°19 | n.a. | S 3 |
| S 4 | 8 43 58 | 12°47'46 | 6♐15 | 25°34 | 26°15 | 2° 1 | 8°37 | 19°56 | 8°48 | 20°24 | 16°44 | 21♏46 | 21°14 | 7°26 | n.a. | S 4 |
| M 5 | 8 47 55 | 13°47'49 | 18° 4 | 27°23 | 27°17 | 2° 3 | 8°51 | 19°52 | 8°45 | 20°22 | 16°43 | 21°44 | 21°11 | 7°33 | n.a. | M 5 |
| T 6 | 8 51 51 | 14°47'50 | 29°59 | 29°10 | 28°19 | 2° 6 | 9° 4 | 19°47 | 8°43 | 20°21 | 16°43 | 21°39 | 21° 8 | 7°39 | n.a. | T 6 |
| W 7 | 8 55 48 | 15°47'49 | 12♑ 5 | 0♓53 | 29°22 | 2° 7 | 9°18 | 19°42 | 8°40 | 20°19 | 16°42 | 21°31 | 21° 5 | 7°46 | n.a. | W 7 |
| T 8 | 8 59 45 | 16°47'46 | 24°24 | 2°34 | 0♑24 | 2°R 8 | 9°32 | 19°37 | 8°38 | 20°18 | 16°42 | 21°20 | 21° 2 | 7°53 | n.a. | T 8 |
| F 9 | 9 3 41 | 17°47'41 | 6♒59 | 4°11 | 1°27 | 2° 7 | 9°46 | 19°33 | 8°35 | 20°16 | 16°41 | 21° 7 | 20°58 | 7°59 | n.a. | F 9 |
| S 10 | 9 7 38 | 18°47'34 | 19°48 | 5°44 | 2°31 | 2° 7 | 10° 0 | 19°28 | 8°32 | 20°15 | 16°41 | 20°54 | 20°55 | 8° 6 | n.a. | S 10 |
| S 11 | 9 11 34 | 19°47'26 | 2♓52 | 7°12 | 3°34 | 2° 5 | 10°14 | 19°23 | 8°30 | 20°14 | 16°40 | 20°40 | 20°52 | 8°13 | n.a. | S 11 |
| M12 | 9 15 31 | 20°47'15 | 16° 9 | 8°34 | 4°38 | 2° 3 | 10°28 | 19°18 | 8°27 | 20°12 | 16°40 | 20°28 | 20°49 | 8°19 | n.a. | M12 |
| T 13 | 9 19 27 | 21°47'01 | 29°38 | 9°51 | 5°42 | 2° 0 | 10°42 | 19°14 | 8°25 | 20°11 | 16°39 | 20°19 | 20°46 | 8°26 | n.a. | T 13 |
| W14 | 9 23 24 | 22°46'46 | 13♈16 | 11° 2 | 6°46 | 1°56 | 10°56 | 19° 9 | 8°22 | 20° 9 | 16°39 | 20°12 | 20°42 | 8°33 | n.a. | W14 |
| T 15 | 9 27 20 | 23°46'28 | 27° 1 | 12° 6 | 7°51 | 1°51 | 11°10 | 19° 4 | 8°20 | 20° 8 | 16°38 | 20° 9 | 20°39 | 8°39 | n.a. | T 15 |
| F 16 | 9 31 17 | 24°46'08 | 10♉55 | 13° 3 | 8°55 | 1°46 | 11°25 | 19° 0 | 8°17 | 20° 7 | 16°38 | 20° 7 | 20°36 | 8°46 | n.a. | F 16 |
| S 17 | 9 35 13 | 25°45'45 | 24°55 | 13°53 | 10° 0 | 1°39 | 11°39 | 18°55 | 8°15 | 20° 5 | 16°38 | 20° 7 | 20°33 | 8°53 | n.a. | S 17 |
| S 18 | 9 39 10 | 26°45'21 | 9♊ 1 | 14°35 | 11° 6 | 1°33 | 11°53 | 18°50 | 8°12 | 20° 4 | 16°37 | 20° 7 | 20°30 | 8°59 | n.a. | S 18 |
| M19 | 9 43 7 | 27°44'53 | 23°14 | 15° 9 | 12°11 | 1°25 | 12° 7 | 18°45 | 8°10 | 20° 3 | 16°37 | 20° 5 | 20°27 | 9° 6 | n.a. | M19 |
| T 20 | 9 47 3 | 28°44'24 | 7♋30 | 15°35 | 13°16 | 1°16 | 12°21 | 18°41 | 8° 7 | 20° 2 | 16°37 | 20° 1 | 20°23 | 9°13 | n.a. | T 20 |
| W21 | 9 51 0 | 29°43'51 | 21°48 | 15°53 | 14°22 | 1° 7 | 12°36 | 18°36 | 8° 5 | 20° 0 | 16°36 | 19°54 | 20°20 | 9°19 | n.a. | W21 |
| T 22 | 9 54 56 | 0♓43'17 | 6♌ 2 | 16° 3 | 15°28 | 0°57 | 12°50 | 18°32 | 8° 3 | 19°59 | 16°36 | 19°44 | 20°17 | 9°26 | n.a. | T 22 |
| F 23 | 9 58 53 | 1°42'40 | 20° 7 | 16°R 4 | 16°34 | 0°46 | 13° 4 | 18°27 | 8° 0 | 19°58 | 16°36 | 19°33 | 20°14 | 9°33 | n.a. | F 23 |
| S 24 | 10 2 49 | 2°42'01 | 3♍59 | 15°59 | 17°40 | 0°35 | 13°19 | 18°22 | 7°58 | 19°57 | 16°36 | 19°21 | 20°11 | 9°39 | n.a. | S 24 |
| S 25 | 10 6 46 | 3°41'20 | 17°34 | 15°45 | 18°47 | 0°23 | 13°33 | 18°18 | 7°56 | 19°56 | 16°36 | 19° 9 | 20° 7 | 9°46 | n.a. | S 25 |
| M26 | 10 10 42 | 4°40'37 | 0♎47 | 15°25 | 19°53 | 0°10 | 13°47 | 18°13 | 7°53 | 19°55 | 16°36 | 18°59 | 20° 4 | 9°52 | n.a. | M26 |
| T 27 | 10 14 39 | 5°39'51 | 13°40 | 14°58 | 21° 0 | 29♍56 | 14° 2 | 18° 9 | 7°51 | 19°53 | 16°35 | 18°52 | 20° 1 | 9°59 | n.a. | T 27 |
| W28 | 10 18 36 | 6♓39'04 | 26♎12 | 14♓26 | 22♑ 7 | 29♍42 | 14♓16 | 18♌ 5 | 7♌49 | 19♋52 | 16♊35 | 18♏47 | 19♏58 | 10♐ 6 | n.a. | W28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 17s59 | 13s32 | 1s50 | 15s54 | 0s58 | 20s21 | 3n11 | 2n14 | 3n13 | 9s48 | 1s12 | 16n47 | 1n58 | 18n56 | 0n45 | 22n11 | 0n 4 | 21n30 | 1s32 | 18s25 | 18s18 | 20s21 | | n.a. |
| F 2 | 17 43 | 16 34 | 0 48 | 15 9 | 0 49 | 20 28 | 3 6 | 2 12 | 3 14 | 9 43 | 1 12 | 16 48 | 1 58 | 18 57 | 0 45 | 22 11 | 0 4 | 21 30 | 1 32 | 18 25 | 18 18 | 20 22 | | n.a. |
| S 3 | 17 26 | 18 52 | 0n14 | 14 22 | 0 39 | 20 35 | 3 2 | 2 12 | 3 15 | 9 38 | 1 12 | 16 50 | 1 58 | 18 58 | 0 45 | 22 12 | 0 4 | 21 30 | 1 32 | 18 25 | 18 17 | 20 22 | | n.a. |
| S 4 | 17 9 | 20 20 | 1 16 | 13 35 | 0 29 | 20 42 | 2 57 | 2 11 | 3 16 | 9 32 | 1 12 | 16 51 | 1 58 | 18 58 | 0 45 | 22 12 | 0 4 | 21 30 | 1 32 | 18 24 | 18 16 | 20 22 | | n.a. |
| M 5 | 16 52 | 20 55 | 2 15 | 12 47 | 0 17 | 20 48 | 2 52 | 2 11 | 3 17 | 9 27 | 1 12 | 16 53 | 1 58 | 18 59 | 0 45 | 22 12 | 0 4 | 21 30 | 1 32 | 18 24 | 18 15 | 20 22 | | n.a. |
| T 6 | 16 34 | 20 34 | 3 8 | 11 59 | 0 6 | 20 54 | 2 47 | 2 11 | 3 18 | 9 22 | 1 12 | 16 55 | 1 58 | 19 0 | 0 45 | 22 12 | 0 4 | 21 30 | 1 32 | 18 22 | 18 14 | 20 23 | | n.a. |
| W 7 | 16 16 | 19 17 | 3 53 | 11 10 | 0n 7 | 21 0 | 2 42 | 2 11 | 3 19 | 9 16 | 1 12 | 16 56 | 1 58 | 19 0 | 0 45 | 22 13 | 0 4 | 21 30 | 1 32 | 18 20 | 18 13 | 20 23 | | n.a. |
| T 8 | 15 58 | 17 4 | 4 28 | 10 22 | 0 19 | 21 5 | 2 37 | 2 12 | 3 20 | 9 11 | 1 12 | 16 58 | 1 58 | 19 1 | 0 45 | 22 13 | 0 4 | 21 30 | 1 32 | 18 17 | 18 13 | 20 23 | | n.a. |
| F 9 | 15 40 | 14 2 | 4 51 | 9 35 | 0 33 | 21 9 | 2 32 | 2 12 | 3 21 | 9 6 | 1 12 | 16 59 | 1 59 | 19 2 | 0 45 | 22 13 | 0 4 | 21 30 | 1 32 | 18 14 | 18 12 | 20 23 | | n.a. |
| S 10 | 15 21 | 10 17 | 5 0 | 8 48 | 0 46 | 21 13 | 2 28 | 2 14 | 3 21 | 9 0 | 1 12 | 17 1 | 1 59 | 19 2 | 0 45 | 22 13 | 0 4 | 21 31 | 1 31 | 18 10 | 18 11 | 20 24 | | n.a. |
| S 11 | 15 2 | 6 0 | 4 53 | 8 2 | 1 0 | 21 17 | 2 23 | 2 15 | 3 22 | 8 55 | 1 11 | 17 3 | 1 59 | 19 3 | 0 45 | 22 13 | 0 4 | 21 31 | 1 31 | 18 7 | 18 10 | 20 24 | | n.a. |
| M12 | 14 43 | 1 22 | 4 31 | 7 18 | 1 14 | 21 20 | 2 18 | 2 17 | 3 23 | 8 49 | 1 11 | 17 4 | 1 59 | 19 4 | 0 45 | 22 14 | 0 4 | 21 31 | 1 31 | 18 4 | 18 9 | 20 24 | | n.a. |
| T 13 | 14 24 | 3n25 | 3 53 | 6 36 | 1 28 | 21 22 | 2 13 | 2 18 | 3 24 | 8 44 | 1 11 | 17 6 | 1 59 | 19 4 | 0 45 | 22 14 | 0 4 | 21 31 | 1 31 | 18 1 | 18 8 | 20 24 | | n.a. |
| W14 | 14 4 | 8 4 | 3 2 | 5 57 | 1 41 | 21 24 | 2 8 | 2 21 | 3 24 | 8 38 | 1 11 | 17 7 | 1 59 | 19 5 | 0 45 | 22 14 | 0 4 | 21 31 | 1 31 | 17 59 | 18 7 | 20 24 | | n.a. |
| T 15 | 13 44 | 12 22 | 1 59 | 5 20 | 1 55 | 21 25 | 2 3 | 2 23 | 3 25 | 8 33 | 1 11 | 17 9 | 1 59 | 19 6 | 0 45 | 22 14 | 0 4 | 21 31 | 1 31 | 17 58 | 18 7 | 20 25 | | n.a. |
| F 16 | 13 24 | 16 2 | 0 49 | 4 45 | 2 8 | 21 26 | 1 58 | 2 26 | 3 26 | 8 27 | 1 11 | 17 10 | 1 59 | 19 6 | 0 44 | 22 15 | 0 4 | 21 31 | 1 31 | 17 58 | 18 6 | 20 25 | | n.a. |
| S 17 | 13 4 | 18 48 | 0s25 | 4 14 | 2 21 | 21 27 | 1 53 | 2 29 | 3 26 | 8 22 | 1 11 | 17 12 | 1 59 | 19 7 | 0 44 | 22 15 | 0 4 | 21 31 | 1 31 | 17 58 | 18 5 | 20 25 | | n.a. |
| S 18 | 12 44 | 20 25 | 1 38 | 3 47 | 2 34 | 21 26 | 1 48 | 2 32 | 3 27 | 8 16 | 1 11 | 17 14 | 1 59 | 19 8 | 0 44 | 22 15 | 0 4 | 21 31 | 1 31 | 17 58 | 18 4 | 20 25 | | n.a. |
| M19 | 12 23 | 20 46 | 2 46 | 3 23 | 2 45 | 21 26 | 1 43 | 2 36 | 3 27 | 8 11 | 1 11 | 17 15 | 1 59 | 19 8 | 0 44 | 22 15 | 0 4 | 21 31 | 1 31 | 17 57 | 18 3 | 20 25 | | n.a. |
| T 20 | 12 2 | 19 47 | 3 43 | 3 2 | 2 56 | 21 24 | 1 38 | 2 39 | 3 27 | 8 5 | 1 11 | 17 17 | 1 59 | 19 9 | 0 44 | 22 15 | 0 4 | 21 31 | 1 30 | 17 56 | 18 2 | 20 26 | | n.a. |
| W21 | 11 41 | 17 32 | 4 26 | 2 46 | 3 6 | 21 22 | 1 33 | 2 43 | 3 28 | 8 0 | 1 11 | 17 18 | 1 59 | 19 10 | 0 44 | 22 16 | 0 4 | 21 31 | 1 30 | 17 54 | 18 1 | 20 26 | | n.a. |
| T 22 | 11 20 | 14 15 | 4 53 | 2 34 | 3 15 | 21 20 | 1 28 | 2 48 | 3 28 | 7 54 | 1 11 | 17 20 | 1 59 | 19 10 | 0 44 | 22 16 | 0 4 | 21 31 | 1 30 | 17 52 | 18 1 | 20 26 | | n.a. |
| F 23 | 10 59 | 10 11 | 5 1 | 2 27 | 3 22 | 21 17 | 1 23 | 2 52 | 3 28 | 7 49 | 1 11 | 17 21 | 1 59 | 19 11 | 0 44 | 22 16 | 0 4 | 21 31 | 1 30 | 17 49 | 18 0 | 20 26 | | n.a. |
| S 24 | 10 37 | 5 38 | 4 51 | 2 23 | 3 29 | 21 13 | 1 18 | 2 57 | 3 29 | 7 43 | 1 11 | 17 22 | 1 59 | 19 11 | 0 44 | 22 16 | 0 4 | 21 31 | 1 30 | 17 45 | 17 59 | 20 26 | | n.a. |
| S 25 | 10 16 | 0 54 | 4 25 | 2 24 | 3 33 | 21 9 | 1 14 | 3 2 | 3 29 | 7 37 | 1 11 | 17 24 | 1 59 | 19 12 | 0 44 | 22 16 | 0 4 | 21 31 | 1 30 | 17 42 | 17 58 | 20 27 | | n.a. |
| M26 | 9 54 | 3s45 | 3 45 | 2 29 | 3 36 | 21 4 | 1 9 | 3 7 | 3 29 | 7 32 | 1 11 | 17 25 | 1 59 | 19 12 | 0 44 | 22 16 | 0 4 | 21 32 | 1 30 | 17 39 | 17 57 | 20 27 | | n.a. |
| T 27 | 9 32 | 8 8 | 2 55 | 2 38 | 3 38 | 20 59 | 1 4 | 3 13 | 3 29 | 7 26 | 1 11 | 17 27 | 1 59 | 19 13 | 0 44 | 22 17 | 0 4 | 21 32 | 1 30 | 17 37 | 17 56 | 20 27 | | n.a. |
| W28 | 9s10 | 12s 2 | 1s57 | 2s51 | 3n38 | 20s53 | 0n59 | 3n19 | 3n29 | 7s21 | 1s11 | 17n28 | 1n59 | 19n14 | 0n44 | 22n17 | 0n 4 | 21n32 | 1s30 | 17s36 | 17s55 | 20s27 | | n.a. |

Julian Day Number = 1701730.5, Delta T = 03h05m13s
Ecliptic obliquity = 23°42'00, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°48'28, Lahiri = - 4°41'28 Julian Calendar 1 Feb. 54 BCE == Greg. Calendar 30 Jan. 054 BCE

The year -53 astronomical counting style corresponds to year 054 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 54 BCE
# geocentric

## MARCH 54 BCE (-53) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 10 22 32 | 7♓38'15 | 8♏26 | 13°R48 | 23♉14 | 29°R26 | 14♓30 | 18°R 0 | 7°R47 | 19°R51 | 16°R35 | 18°R45 | 19♏55 | 10♐12 | n.a. | T 1 |
| F 2 | 10 26 29 | 8°37'24 | 20°27 | 13♓ 6 | 24°21 | 29♍11 | 14°45 | 17♌56 | 7♌45 | 19♋50 | 16♊35 | 18°D45 | 19°52 | 10°19 | n.a. | F 2 |
| S 3 | 10 30 25 | 9°36'31 | 2♐19 | 12°21 | 25°28 | 28°54 | 14°59 | 17°52 | 7°43 | 19°49 | 16°D35 | 18♏45 | 19°48 | 10°26 | n.a. | S 3 |
| S 4 | 10 34 22 | 10°35'37 | 14° 7 | 11°34 | 26°35 | 28°37 | 15°14 | 17°48 | 7°41 | 19°48 | 16°35 | 18°R45 | 19°45 | 10°32 | n.a. | S 4 |
| M 5 | 10 38 18 | 11°34'40 | 25°58 | 10°45 | 27°43 | 28°19 | 15°28 | 17°43 | 7°38 | 19°48 | 16°35 | 18°44 | 19°42 | 10°39 | n.a. | M 5 |
| T 6 | 10 42 15 | 12°33'42 | 7♉56 | 9°56 | 28°51 | 28° 1 | 15°42 | 17°39 | 7°36 | 19°47 | 16°35 | 18°41 | 19°39 | 10°46 | n.a. | T 6 |
| W 7 | 10 46 11 | 13°32'41 | 20° 6 | 9° 7 | 29°59 | 27°42 | 15°57 | 17°35 | 7°34 | 19°46 | 16°35 | 18°36 | 19°36 | 10°52 | n.a. | W 7 |
| T 8 | 10 50 8 | 14°31'39 | 2♒32 | 8°20 | 1♒ 6 | 27°23 | 16°11 | 17°31 | 7°33 | 19°45 | 16°36 | 18°28 | 19°33 | 10°59 | n.a. | T 8 |
| F 9 | 10 54 4 | 15°30'35 | 15°16 | 7°35 | 2°14 | 27° 3 | 16°26 | 17°27 | 7°31 | 19°44 | 16°36 | 18°18 | 19°29 | 11° 6 | n.a. | F 9 |
| S 10 | 10 58 1 | 16°29'29 | 28°20 | 6°53 | 3°23 | 26°43 | 16°40 | 17°24 | 7°29 | 19°43 | 16°36 | 18° 7 | 19°26 | 11°12 | n.a. | S 10 |
| S 11 | 11 1 58 | 17°28'20 | 11♓43 | 6°15 | 4°31 | 26°22 | 16°55 | 17°20 | 7°27 | 19°43 | 16°36 | 17°57 | 19°23 | 11°19 | n.a. | S 11 |
| M12 | 11 5 54 | 18°27'10 | 25°23 | 5°41 | 5°39 | 26° 1 | 17° 9 | 17°16 | 7°25 | 19°42 | 16°36 | 17°47 | 19°20 | 11°26 | n.a. | M12 |
| T 13 | 11 9 51 | 19°25'58 | 9♈16 | 5°11 | 6°48 | 25°40 | 17°23 | 17°12 | 7°23 | 19°41 | 16°36 | 17°40 | 19°17 | 11°32 | n.a. | T 13 |
| W14 | 11 13 47 | 20°24'43 | 23°20 | 4°47 | 7°56 | 25°18 | 17°38 | 17° 9 | 7°22 | 19°41 | 16°37 | 17°35 | 19°13 | 11°39 | n.a. | W14 |
| T 15 | 11 17 44 | 21°23'26 | 7♉29 | 4°27 | 9° 5 | 24°56 | 17°52 | 17° 5 | 7°20 | 19°40 | 16°37 | 17°33 | 19°10 | 11°46 | n.a. | T 15 |
| F 16 | 11 21 40 | 22°22'07 | 21°40 | 4°13 | 10°14 | 24°34 | 18° 7 | 17° 2 | 7°18 | 19°39 | 16°37 | 17°D32 | 19° 7 | 11°52 | n.a. | F 16 |
| S 17 | 11 25 37 | 23°20'46 | 5♊52 | 4° 4 | 11°22 | 24°11 | 18°21 | 16°58 | 7°17 | 19°39 | 16°38 | 17°33 | 19° 4 | 11°59 | n.a. | S 17 |
| S 18 | 11 29 33 | 24°19'22 | 20° 2 | 4°D 0 | 12°31 | 23°49 | 18°36 | 16°55 | 7°15 | 19°38 | 16°38 | 17°R34 | 19° 1 | 12° 6 | n.a. | S 18 |
| M19 | 11 33 30 | 25°17'57 | 4♋ 8 | 4° 2 | 13°40 | 23°26 | 18°50 | 16°52 | 7°14 | 19°38 | 16°38 | 17°33 | 18°58 | 12°12 | n.a. | M19 |
| T 20 | 11 37 27 | 26°16'28 | 18°10 | 4° 8 | 14°49 | 23° 3 | 19° 4 | 16°49 | 7°12 | 19°37 | 16°39 | 17°31 | 18°54 | 12°19 | n.a. | T 20 |
| W21 | 11 41 23 | 27°14'58 | 2♌ 7 | 4°20 | 15°58 | 22°41 | 19°19 | 16°46 | 7°11 | 19°37 | 16°39 | 17°27 | 18°51 | 12°26 | n.a. | W21 |
| T 22 | 11 45 20 | 28°13'25 | 15°55 | 4°36 | 17° 8 | 22°18 | 19°33 | 16°43 | 7°10 | 19°36 | 16°39 | 17°21 | 18°48 | 12°32 | n.a. | T 22 |
| F 23 | 11 49 16 | 29°11'50 | 29°34 | 4°57 | 18°17 | 21°56 | 19°47 | 16°40 | 7° 8 | 19°36 | 16°40 | 17°13 | 18°45 | 12°39 | n.a. | F 23 |
| S 24 | 11 53 13 | 0♈10'12 | 13♍ 0 | 5°23 | 19°26 | 21°34 | 20° 2 | 16°37 | 7° 7 | 19°36 | 16°40 | 17° 5 | 18°42 | 12°46 | n.a. | S 24 |
| S 25 | 11 57 9 | 1° 8'33 | 26°11 | 5°53 | 20°36 | 21°12 | 20°16 | 16°34 | 7° 6 | 19°35 | 16°41 | 16°58 | 18°39 | 12°52 | n.a. | S 25 |
| M26 | 12 1 6 | 2° 6'52 | 9♎ 7 | 6°27 | 21°45 | 20°50 | 20°30 | 16°32 | 7° 5 | 19°35 | 16°41 | 16°51 | 18°35 | 12°59 | n.a. | M26 |
| T 27 | 12 5 2 | 3° 5'09 | 21°46 | 7° 5 | 22°55 | 20°28 | 20°44 | 16°29 | 7° 3 | 19°35 | 16°42 | 16°46 | 18°32 | 13° 5 | n.a. | T 27 |
| W28 | 12 8 59 | 4° 3'24 | 4♏10 | 7°46 | 24° 4 | 20° 7 | 20°59 | 16°27 | 7° 2 | 19°35 | 16°43 | 16°44 | 18°29 | 13°12 | n.a. | W28 |
| T 29 | 12 12 55 | 5° 1'37 | 16°20 | 8°32 | 25°14 | 19°46 | 21°13 | 16°24 | 7° 1 | 19°34 | 16°43 | 16°D43 | 18°26 | 13°19 | n.a. | T 29 |
| F 30 | 12 16 52 | 5°59'49 | 28°19 | 9°21 | 26°24 | 19°25 | 21°27 | 16°22 | 7° 0 | 19°34 | 16°44 | 16°43 | 18°23 | 13°25 | n.a. | F 30 |
| S 31 | 12 20 49 | 6♈57'59 | 10♐11 | 10♓13 | 27♒34 | 19♍ 5 | 21♓41 | 16♌20 | 6♌59 | 19♋34 | 16♊44 | 16♏45 | 18♏19 | 13♐32 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| T 1 | 8s48 | 15s20 | 0s55 | 3s 8 | 3n35 | 20s47 | 0n55 | 3n24 | 3n29 | 7s15 | 1s11 | 17n29 | 1n59 | 19n14 | 0n44 | 22n17 | 0n 4 | 21n32 | 1s30 | 17s35 | 17s55 | 20s27 | | | n.a. |
| F 2 | 8 25 | 17 54 | 0n 9 | 3 27 | 3 32 | 20 40 | 0 50 | 3 31 | 3 28 | 7 9 | 1 11 | 17 31 | 1 59 | 19 15 | 0 44 | 22 17 | 0 4 | 21 32 | 1 29 | 17 35 | 17 54 | 20 27 | | | n.a. |
| S 3 | 8 3 | 19 41 | 1 12 | 3 50 | 3 26 | 20 32 | 0 45 | 3 37 | 3 28 | 7 4 | 1 11 | 17 32 | 1 59 | 19 15 | 0 44 | 22 17 | 0 4 | 21 32 | 1 29 | 17 35 | 17 53 | 20 27 | | | n.a. |
| S 4 | 7 40 | 20 35 | 2 11 | 4 15 | 3 19 | 20 24 | 0 41 | 3 43 | 3 28 | 6 58 | 1 11 | 17 33 | 1 59 | 19 16 | 0 44 | 22 17 | 0 4 | 21 32 | 1 29 | 17 35 | 17 52 | 20 28 | | | n.a. |
| M 5 | 7 18 | 20 34 | 3 5 | 4 41 | 3 10 | 20 15 | 0 36 | 3 50 | 3 27 | 6 52 | 1 11 | 17 35 | 1 59 | 19 16 | 0 44 | 22 18 | 0 4 | 21 32 | 1 29 | 17 35 | 17 51 | 20 28 | | | n.a. |
| T 6 | 6 55 | 19 37 | 3 51 | 5 10 | 3 0 | 20 6 | 0 32 | 3 57 | 3 27 | 6 47 | 1 11 | 17 36 | 1 59 | 19 17 | 0 44 | 22 18 | 0 4 | 21 32 | 1 29 | 17 34 | 17 50 | 20 28 | | | n.a. |
| W 7 | 6 32 | 17 46 | 4 28 | 5 39 | 2 48 | 19 56 | 0 27 | 4 4 | 3 26 | 6 41 | 1 11 | 17 37 | 1 59 | 19 17 | 0 44 | 22 18 | 0 4 | 21 32 | 1 29 | 17 33 | 17 49 | 20 28 | | | n.a. |
| T 8 | 6 9 | 15 4 | 4 52 | 6 9 | 2 35 | 19 45 | 0 23 | 4 11 | 3 25 | 6 35 | 1 11 | 17 38 | 1 59 | 19 18 | 0 44 | 22 18 | 0 4 | 21 33 | 1 29 | 17 31 | 17 49 | 20 28 | | | n.a. |
| F 9 | 5 46 | 11 36 | 5 3 | 6 38 | 2 21 | 19 34 | 0 19 | 4 18 | 3 25 | 6 30 | 1 11 | 17 40 | 1 59 | 19 18 | 0 44 | 22 18 | 0 4 | 21 33 | 1 29 | 17 28 | 17 48 | 20 28 | | | n.a. |
| S 10 | 5 23 | 7 30 | 4 59 | 7 7 | 2 7 | 19 23 | 0 14 | 4 26 | 3 24 | 6 24 | 1 11 | 17 41 | 1 59 | 19 19 | 0 44 | 22 18 | 0 4 | 21 33 | 1 29 | 17 25 | 17 47 | 20 28 | | | n.a. |
| S 11 | 5 0 | 2 57 | 4 38 | 7 36 | 1 51 | 19 11 | 0 10 | 4 33 | 3 23 | 6 18 | 1 11 | 17 42 | 1 59 | 19 19 | 0 44 | 22 18 | 0 4 | 21 33 | 1 29 | 17 22 | 17 46 | 20 28 | | | n.a. |
| M12 | 4 37 | 1n50 | 4 2 | 8 3 | 1 36 | 18 58 | 0 6 | 4 41 | 3 22 | 6 13 | 1 11 | 17 43 | 1 59 | 19 20 | 0 44 | 22 18 | 0 4 | 21 33 | 1 29 | 17 19 | 17 45 | 20 28 | | | n.a. |
| T 13 | 4 14 | 6 37 | 3 10 | 8 28 | 1 20 | 18 45 | 0 2 | 4 48 | 3 20 | 6 7 | 1 11 | 17 44 | 1 59 | 19 20 | 0 44 | 22 19 | 0 4 | 21 33 | 1 28 | 17 17 | 17 44 | 20 29 | | | n.a. |
| W14 | 3 50 | 11 6 | 2 6 | 8 52 | 1 4 | 18 31 | 0s 2 | 4 56 | 3 19 | 6 1 | 1 11 | 17 45 | 1 59 | 19 20 | 0 44 | 22 19 | 0 4 | 21 33 | 1 28 | 17 16 | 17 43 | 20 29 | | | n.a. |
| T 15 | 3 27 | 15 0 | 0 54 | 9 14 | 0 48 | 18 17 | 0 6 | 5 3 | 3 18 | 5 56 | 1 11 | 17 46 | 1 59 | 19 21 | 0 44 | 22 19 | 0 4 | 21 33 | 1 28 | 17 15 | 17 42 | 20 29 | | | n.a. |
| F 16 | 3 4 | 18 1 | 0s22 | 9 34 | 0 33 | 18 2 | 0 10 | 5 11 | 3 16 | 5 50 | 1 11 | 17 47 | 1 59 | 19 21 | 0 44 | 22 19 | 0 4 | 21 33 | 1 28 | 17 15 | 17 42 | 20 29 | | | n.a. |
| S 17 | 2 40 | 19 56 | 1 37 | 9 52 | 0 17 | 17 47 | 0 14 | 5 18 | 3 15 | 5 44 | 1 11 | 17 48 | 1 59 | 19 22 | 0 44 | 22 19 | 0 4 | 21 34 | 1 28 | 17 15 | 17 41 | 20 29 | | | n.a. |
| S 18 | 2 17 | 20 34 | 2 45 | 10 7 | 0 2 | 17 31 | 0 18 | 5 26 | 3 13 | 5 39 | 1 11 | 17 49 | 1 59 | 19 22 | 0 44 | 22 19 | 0 4 | 21 34 | 1 28 | 17 15 | 17 40 | 20 29 | | | n.a. |
| M19 | 1 53 | 19 54 | 3 44 | 10 20 | 0s12 | 17 15 | 0 22 | 5 34 | 3 11 | 5 33 | 1 11 | 17 50 | 1 59 | 19 22 | 0 44 | 22 19 | 0 4 | 21 34 | 1 28 | 17 15 | 17 39 | 20 29 | | | n.a. |
| T 20 | 1 30 | 18 1 | 4 28 | 10 30 | 0 26 | 16 58 | 0 25 | 5 41 | 3 10 | 5 27 | 1 11 | 17 51 | 1 59 | 19 23 | 0 44 | 22 19 | 0 4 | 21 34 | 1 28 | 17 15 | 17 38 | 20 29 | | | n.a. |
| W21 | 1 6 | 15 5 | 4 57 | 10 39 | 0 40 | 16 41 | 0 29 | 5 48 | 3 8 | 5 22 | 1 11 | 17 52 | 1 59 | 19 23 | 0 44 | 22 19 | 0 4 | 21 34 | 1 28 | 17 13 | 17 37 | 20 29 | | | n.a. |
| T 22 | 0 43 | 11 21 | 5 7 | 10 45 | 0 53 | 16 23 | 0 33 | 5 55 | 3 6 | 5 16 | 1 11 | 17 53 | 1 59 | 19 23 | 0 44 | 22 19 | 0 4 | 21 34 | 1 28 | 17 12 | 17 36 | 20 29 | | | n.a. |
| F 23 | 0 19 | 7 4 | 5 0 | 10 48 | 1 5 | 16 5 | 0 36 | 6 3 | 3 4 | 5 10 | 1 11 | 17 53 | 1 58 | 19 24 | 0 44 | 22 19 | 0 4 | 21 34 | 1 27 | 17 10 | 17 35 | 20 29 | | | n.a. |
| S 24 | 0n 4 | 2 30 | 4 37 | 10 49 | 1 16 | 15 46 | 0 39 | 6 10 | 3 2 | 5 5 | 1 11 | 17 54 | 1 58 | 19 24 | 0 44 | 22 19 | 0 4 | 21 35 | 1 27 | 17 7 | 17 34 | 20 29 | | | n.a. |
| S 25 | 0 28 | 2s 7 | 3 59 | 10 48 | 1 27 | 15 27 | 0 43 | 6 16 | 3 0 | 4 59 | 1 11 | 17 55 | 1 58 | 19 24 | 0 44 | 22 20 | 0 4 | 21 35 | 1 27 | 17 5 | 17 34 | 20 29 | | | n.a. |
| M26 | 0 51 | 6 33 | 3 9 | 10 45 | 1 38 | 15 8 | 0 46 | 6 23 | 2 57 | 4 53 | 1 11 | 17 56 | 1 58 | 19 25 | 0 44 | 22 20 | 0 4 | 21 35 | 1 27 | 17 3 | 17 33 | 20 29 | | | n.a. |
| T 27 | 1 14 | 10 36 | 2 11 | 10 40 | 1 47 | 14 48 | 0 49 | 6 30 | 2 55 | 4 48 | 1 11 | 17 56 | 1 58 | 19 25 | 0 44 | 22 20 | 0 4 | 21 35 | 1 27 | 17 2 | 17 32 | 20 29 | | | n.a. |
| W28 | 1 38 | 14 6 | 1 8 | 10 32 | 1 56 | 14 28 | 0 52 | 6 36 | 2 53 | 4 42 | 1 11 | 17 57 | 1 58 | 19 25 | 0 44 | 22 20 | 0 5 | 21 35 | 1 27 | 17 1 | 17 31 | 20 29 | | | n.a. |
| T 29 | 2 1 | 16 56 | 0 2 | 10 22 | 2 4 | 14 7 | 0 55 | 6 42 | 2 50 | 4 36 | 1 11 | 17 58 | 1 58 | 19 25 | 0 44 | 22 20 | 0 5 | 21 35 | 1 27 | 17 1 | 17 30 | 20 30 | | | n.a. |
| F 30 | 2 24 | 18 59 | 1n 3 | 10 11 | 2 11 | 13 46 | 0 58 | 6 48 | 2 48 | 4 31 | 1 11 | 17 58 | 1 58 | 19 26 | 0 44 | 22 20 | 0 5 | 21 35 | 1 27 | 17 1 | 17 29 | 20 30 | | | n.a. |
| S 31 | 2n48 | 20s10 | 2n 4 | 9s57 | 2s18 | 13s24 | 1s 1 | 6n53 | 2n45 | 4s25 | 1s11 | 17n59 | 1n58 | 19n26 | 0n44 | 22n20 | 0n 5 | 21n36 | 1s27 | 17s 1 | 17s28 | 20s30 | | | n.a. |

Julian Day Number = 1701758.5, Delta T = 03h05m12s
Ecliptic obliquity = 23°42'00, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°48'25, Lahiri = - 4°41'24 Julian Calendar 1 March 54 BCE == Greg. Calendar 27 Feb. 054 BCE

The year -53 astronomical counting style corresponds to year 054 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 54 BCE
# geocentric

## APRIL 54 BCE (-53) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 24 45 | 7♈56'08 | 22♐ 0 | 11♓ 8 | 28♒44 | 18°R45 | 21♓55 | 16°R18 | 6°R59 | 19°R34 | 16♊45 | 16♏46 | 18♏16 | 13♐39 | n.a. | S 1 |
| M 2 | 12 28 42 | 8°54'15 | 3♑52 | 12° 7 | 29°54 | 18♍26 | 22° 9 | 16♌16 | 6♌58 | 19♋34 | 16°46 | 16°R47 | 18°13 | 13°45 | n.a. | M 2 |
| T 3 | 12 32 38 | 9°52'21 | 15°50 | 13° 8 | 1♓ 4 | 18° 8 | 22°24 | 16°14 | 6°57 | 19°D34 | 16°46 | 16°47 | 18°10 | 13°52 | n.a. | T 3 |
| W 4 | 12 36 35 | 10°50'25 | 28° 1 | 14°12 | 2°14 | 17°50 | 22°38 | 16°12 | 6°56 | 19°34 | 16°47 | 16°46 | 18° 7 | 13°59 | n.a. | W 4 |
| T 5 | 12 40 31 | 11°48'27 | 10♒29 | 15°19 | 3°24 | 17°32 | 22°52 | 16°11 | 6°56 | 19°34 | 16°48 | 16°43 | 18° 4 | 14° 5 | n.a. | T 5 |
| F 6 | 12 44 28 | 12°46'28 | 23°17 | 16°29 | 4°34 | 17°15 | 23° 6 | 16° 9 | 6°55 | 19°34 | 16°49 | 16°39 | 18° 0 | 14°12 | n.a. | F 6 |
| S 7 | 12 48 24 | 13°44'27 | 6♓27 | 17°41 | 5°44 | 16°59 | 23°20 | 16° 7 | 6°54 | 19°34 | 16°49 | 16°34 | 17°57 | 14°19 | n.a. | S 7 |
| S 8 | 12 52 21 | 14°42'25 | 20° 1 | 18°55 | 6°55 | 16°44 | 23°33 | 16° 6 | 6°54 | 19°34 | 16°50 | 16°29 | 17°54 | 14°25 | n.a. | S 8 |
| M 9 | 12 56 18 | 15°40'22 | 3♈56 | 20°12 | 8° 5 | 16°29 | 23°47 | 16° 5 | 6°53 | 19°35 | 16°51 | 16°24 | 17°51 | 14°32 | n.a. | M 9 |
| T 10 | 13 0 14 | 16°38'17 | 18°10 | 21°32 | 9°16 | 16°15 | 24° 1 | 16° 4 | 6°53 | 19°35 | 16°52 | 16°21 | 17°48 | 14°39 | n.a. | T 10 |
| W11 | 13 4 11 | 17°36'10 | 2♉38 | 22°53 | 10°26 | 16° 1 | 24°15 | 16° 3 | 6°53 | 19°35 | 16°53 | 16°19 | 17°44 | 14°45 | n.a. | W11 |
| T 12 | 13 8 7 | 18°34'01 | 17°13 | 24°17 | 11°37 | 15°49 | 24°29 | 16° 2 | 6°52 | 19°35 | 16°54 | 16°D18 | 17°41 | 14°52 | n.a. | T 12 |
| F 13 | 13 12 4 | 19°31'51 | 1♊50 | 25°43 | 12°47 | 15°37 | 24°43 | 16° 1 | 6°52 | 19°36 | 16°55 | 16°19 | 17°38 | 14°59 | n.a. | F 13 |
| S 14 | 13 16 0 | 20°29'40 | 16°22 | 27°12 | 13°58 | 15°26 | 24°56 | 16° 0 | 6°52 | 19°36 | 16°56 | 16°20 | 17°35 | 15° 5 | n.a. | S 14 |
| S 15 | 13 19 57 | 21°27'26 | 0♋47 | 28°42 | 15° 8 | 15°15 | 25°10 | 15°59 | 6°52 | 19°36 | 16°57 | 16°21 | 17°32 | 15°12 | n.a. | S 15 |
| M16 | 13 23 53 | 22°25'11 | 15° 0 | 0♈15 | 16°19 | 15° 6 | 25°23 | 15°59 | 6°52 | 19°37 | 16°58 | 16°22 | 17°29 | 15°19 | n.a. | M16 |
| T 17 | 13 27 50 | 23°22'53 | 29° 0 | 1°50 | 17°30 | 14°57 | 25°37 | 15°58 | 6°D52 | 19°37 | 16°58 | 16°R22 | 17°25 | 15°25 | n.a. | T 17 |
| W18 | 13 31 47 | 24°20'34 | 12♌45 | 3°27 | 18°41 | 14°50 | 25°51 | 15°58 | 6°52 | 19°38 | 16°59 | 16°21 | 17°22 | 15°32 | n.a. | W18 |
| T 19 | 13 35 43 | 25°18'14 | 26°16 | 5° 6 | 19°51 | 14°43 | 26° 4 | 15°57 | 6°52 | 19°38 | 17° 1 | 16°19 | 17°19 | 15°39 | n.a. | T 19 |
| F 20 | 13 39 40 | 26°15'51 | 9♍33 | 6°47 | 21° 2 | 14°36 | 26°17 | 15°57 | 6°52 | 19°39 | 17° 2 | 16°17 | 17°16 | 15°45 | n.a. | F 20 |
| S 21 | 13 43 36 | 27°13'27 | 22°36 | 8°30 | 22°13 | 14°31 | 26°31 | 15°D57 | 6°52 | 19°39 | 17° 3 | 16°14 | 17°13 | 15°52 | n.a. | S 21 |
| S 22 | 13 47 33 | 28°11'02 | 5♎24 | 10°16 | 23°24 | 14°26 | 26°44 | 15°57 | 6°52 | 19°40 | 17° 4 | 16°11 | 17°10 | 15°59 | n.a. | S 22 |
| M23 | 13 51 29 | 29° 8'35 | 18° 0 | 12° 3 | 24°35 | 14°23 | 26°57 | 15°57 | 6°52 | 19°41 | 17° 5 | 16° 9 | 17° 6 | 16° 5 | n.a. | M23 |
| T 24 | 13 55 26 | 0♉ 6'06 | 0♏22 | 13°53 | 25°46 | 14°20 | 27°11 | 15°58 | 6°53 | 19°41 | 17° 6 | 16° 8 | 17° 3 | 16°12 | n.a. | T 24 |
| W25 | 13 59 22 | 1° 3'37 | 12°34 | 15°45 | 26°57 | 14°18 | 27°24 | 15°58 | 6°53 | 19°42 | 17° 7 | 16°D 7 | 17° 0 | 16°19 | n.a. | W25 |
| T 26 | 14 3 19 | 2° 1'06 | 24°36 | 17°39 | 28° 8 | 14°16 | 27°37 | 15°58 | 6°54 | 19°43 | 17° 8 | 16° 7 | 16°57 | 16°25 | n.a. | T 26 |
| F 27 | 14 7 15 | 2°58'35 | 6♐31 | 19°35 | 29°19 | 14°D16 | 27°50 | 15°59 | 6°54 | 19°43 | 17° 9 | 16° 8 | 16°54 | 16°32 | n.a. | F 27 |
| S 28 | 14 11 12 | 3°56'02 | 18°22 | 21°33 | 0♈30 | 14°16 | 28° 3 | 16° 0 | 6°55 | 19°44 | 17°10 | 16° 9 | 16°50 | 16°39 | n.a. | S 28 |
| S 29 | 14 15 9 | 4°53'28 | 0♑11 | 23°33 | 1°42 | 14°17 | 28°16 | 16° 0 | 6°55 | 19°45 | 17°12 | 16°10 | 16°47 | 16°45 | n.a. | S 29 |
| M30 | 14 19 5 | 5♉50'54 | 12♑ 3 | 25♈35 | 2♈53 | 14♍19 | 28♓29 | 16♌ 1 | 6♌56 | 19♋46 | 17♊13 | 16♏11 | 16♏44 | 16♐52 | n.a. | M30 |

| Day | ☉ | | ☽ | | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | | ☊ | | ⚸ | | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | | decl | lat | | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | | decl | | decl | | decl | lat | |
| S 1 | 3n11 | | 20s27 | 3n 0 | | 9s41 | 2s24 | 13s 2 | 1s 4 | 6n59 | 2n42 | 4s20 | 1s11 | 17n59 | 1n58 | 19n26 | 0n44 | 22n20 | 0n 5 | 21n36 | 1s27 | 17s 2 | | 17s27 | | 20s30 | | | | n.a. |
| M 2 | 3 34 | | 19 50 | 3 49 | | 9 23 | 2 30 | 12 40 | 1 6 | 7 4 | 2 40 | 4 14 | 1 11 | 18 0 | 1 58 | 19 26 | 0 44 | 22 20 | 0 5 | 21 36 | 1 27 | 17 2 | | 17 26 | | 20 30 | | | | n.a. |
| T 3 | 3 57 | | 18 19 | 4 28 | | 9 4 | 2 34 | 12 17 | 1 9 | 7 9 | 2 37 | 4 8 | 1 11 | 18 0 | 1 57 | 19 26 | 0 44 | 22 20 | 0 5 | 21 36 | 1 26 | 17 2 | | 17 26 | | 20 30 | | | | n.a. |
| W 4 | 4 20 | | 15 57 | 4 56 | | 8 43 | 2 38 | 11 54 | 1 12 | 7 13 | 2 34 | 4 3 | 1 11 | 18 1 | 1 57 | 19 26 | 0 43 | 22 20 | 0 5 | 21 36 | 1 26 | 17 2 | | 17 25 | | 20 30 | | | | n.a. |
| T 5 | 4 43 | | 12 49 | 5 10 | | 8 20 | 2 42 | 11 31 | 1 14 | 7 18 | 2 31 | 3 57 | 1 11 | 18 1 | 1 57 | 19 27 | 0 43 | 22 20 | 0 5 | 21 36 | 1 26 | 17 1 | | 17 24 | | 20 30 | | | | n.a. |
| F 6 | 5 6 | | 9 2 | 5 10 | | 7 55 | 2 45 | 11 7 | 1 16 | 7 22 | 2 29 | 3 52 | 1 12 | 18 2 | 1 57 | 19 27 | 0 43 | 22 20 | 0 5 | 21 37 | 1 26 | 17 0 | | 17 23 | | 20 30 | | | | n.a. |
| S 7 | 5 29 | | 4 42 | 4 54 | | 7 28 | 2 47 | 10 43 | 1 19 | 7 26 | 2 26 | 3 46 | 1 12 | 18 2 | 1 57 | 19 27 | 0 43 | 22 20 | 0 5 | 21 37 | 1 26 | 16 58 | | 17 22 | | 20 30 | | | | n.a. |
| S 8 | 5 51 | | 0 0 | 4 21 | | 7 0 | 2 48 | 10 19 | 1 21 | 7 29 | 2 23 | 3 41 | 1 12 | 18 2 | 1 57 | 19 27 | 0 43 | 22 20 | 0 5 | 21 37 | 1 26 | 16 57 | | 17 21 | | 20 30 | | | | n.a. |
| M 9 | 6 14 | | 4n49 | 3 31 | | 6 30 | 2 49 | 9 54 | 1 23 | 7 32 | 2 20 | 3 35 | 1 12 | 18 3 | 1 57 | 19 27 | 0 43 | 22 20 | 0 5 | 21 37 | 1 26 | 16 55 | | 17 20 | | 20 30 | | | | n.a. |
| T 10 | 6 37 | | 9 29 | 2 28 | | 5 59 | 2 49 | 9 30 | 1 25 | 7 35 | 2 17 | 3 30 | 1 12 | 18 3 | 1 57 | 19 27 | 0 43 | 22 20 | 0 5 | 21 37 | 1 26 | 16 54 | | 17 19 | | 20 29 | | | | n.a. |
| W11 | 6 59 | | 13 41 | 1 14 | | 5 26 | 2 49 | 9 4 | 1 27 | 7 38 | 2 14 | 3 24 | 1 12 | 18 3 | 1 56 | 19 27 | 0 43 | 22 20 | 0 5 | 21 37 | 1 26 | 16 54 | | 17 18 | | 20 29 | | | | n.a. |
| T 12 | 7 21 | | 17 5 | 0s 5 | | 4 51 | 2 48 | 8 39 | 1 29 | 7 40 | 2 11 | 3 19 | 1 12 | 18 3 | 1 56 | 19 27 | 0 43 | 22 20 | 0 5 | 21 38 | 1 26 | 16 54 | | 17 18 | | 20 29 | | | | n.a. |
| F 13 | 7 43 | | 19 23 | 1 24 | | 4 15 | 2 46 | 8 13 | 1 31 | 7 42 | 2 8 | 3 13 | 1 12 | 18 3 | 1 56 | 19 27 | 0 43 | 22 20 | 0 5 | 21 38 | 1 26 | 16 54 | | 17 17 | | 20 29 | | | | n.a. |
| S 14 | 8 5 | | 20 23 | 2 38 | | 3 38 | 2 44 | 7 47 | 1 32 | 7 43 | 2 5 | 3 8 | 1 12 | 18 4 | 1 56 | 19 27 | 0 43 | 22 20 | 0 5 | 21 38 | 1 25 | 16 54 | | 17 16 | | 20 29 | | | | n.a. |
| S 15 | 8 27 | | 20 1 | 3 41 | | 2 59 | 2 41 | 7 21 | 1 34 | 7 45 | 2 2 | 3 3 | 1 12 | 18 4 | 1 56 | 19 27 | 0 43 | 22 20 | 0 5 | 21 38 | 1 25 | 16 55 | | 17 15 | | 20 29 | | | | n.a. |
| M16 | 8 49 | | 18 23 | 4 29 | | 2 19 | 2 38 | 6 55 | 1 35 | 7 46 | 1 59 | 2 57 | 1 12 | 18 4 | 1 56 | 19 27 | 0 43 | 22 20 | 0 5 | 21 38 | 1 25 | 16 55 | | 17 14 | | 20 29 | | | | n.a. |
| T 17 | 9 11 | | 15 41 | 5 1 | | 1 37 | 2 34 | 6 28 | 1 37 | 7 46 | 1 56 | 2 52 | 1 12 | 18 4 | 1 56 | 19 27 | 0 43 | 22 19 | 0 5 | 21 39 | 1 25 | 16 55 | | 17 13 | | 20 29 | | | | n.a. |
| W18 | 9 32 | | 12 8 | 5 14 | | 0 54 | 2 30 | 6 2 | 1 38 | 7 47 | 1 53 | 2 47 | 1 12 | 18 4 | 1 56 | 19 27 | 0 43 | 22 19 | 0 5 | 21 39 | 1 25 | 16 55 | | 17 12 | | 20 29 | | | | n.a. |
| T 19 | 9 54 | | 8 2 | 5 10 | | 0 10 | 2 25 | 5 35 | 1 39 | 7 47 | 1 50 | 2 41 | 1 13 | 18 4 | 1 55 | 19 27 | 0 43 | 22 19 | 0 5 | 21 39 | 1 25 | 16 54 | | 17 11 | | 20 29 | | | | n.a. |
| F 20 | 10 15 | | 3 36 | 4 50 | | 0n36 | 2 19 | 5 8 | 1 41 | 7 46 | 1 47 | 2 36 | 1 13 | 18 4 | 1 55 | 19 27 | 0 43 | 22 19 | 0 5 | 21 39 | 1 25 | 16 53 | | 17 10 | | 20 29 | | | | n.a. |
| S 21 | 10 36 | | 0s55 | 4 14 | | 1 23 | 2 13 | 4 40 | 1 42 | 7 46 | 1 45 | 2 31 | 1 13 | 18 3 | 1 55 | 19 27 | 0 43 | 22 19 | 0 5 | 21 39 | 1 25 | 16 52 | | 17 9 | | 20 29 | | | | n.a. |
| S 22 | 10 57 | | 5 19 | 3 26 | | 2 11 | 2 6 | 4 13 | 1 43 | 7 45 | 1 42 | 2 25 | 1 13 | 18 3 | 1 55 | 19 27 | 0 43 | 22 19 | 0 5 | 21 39 | 1 25 | 16 52 | | 17 8 | | 20 29 | | | | n.a. |
| M23 | 11 17 | | 9 26 | 2 29 | | 3 0 | 1 59 | 3 45 | 1 43 | 7 44 | 1 39 | 2 20 | 1 13 | 18 3 | 1 55 | 19 27 | 0 43 | 22 19 | 0 5 | 21 40 | 1 25 | 16 51 | | 17 8 | | 20 29 | | | | n.a. |
| T 24 | 11 38 | | 13 4 | 1 26 | | 3 50 | 1 51 | 3 18 | 1 44 | 7 42 | 1 36 | 2 15 | 1 13 | 18 3 | 1 55 | 19 27 | 0 43 | 22 19 | 0 5 | 21 40 | 1 25 | 16 51 | | 17 7 | | 20 29 | | | | n.a. |
| W25 | 11 58 | | 16 5 | 0 20 | | 4 41 | 1 43 | 2 50 | 1 45 | 7 40 | 1 33 | 2 10 | 1 13 | 18 3 | 1 55 | 19 27 | 0 43 | 22 19 | 0 5 | 21 40 | 1 24 | 16 50 | | 17 6 | | 20 29 | | | | n.a. |
| T 26 | 12 18 | | 18 22 | 0n47 | | 5 32 | 1 35 | 2 22 | 1 46 | 7 38 | 1 30 | 2 5 | 1 13 | 18 3 | 1 55 | 19 26 | 0 43 | 22 19 | 0 5 | 21 40 | 1 24 | 16 51 | | 17 5 | | 20 28 | | | | n.a. |
| F 27 | 12 38 | | 19 49 | 1 51 | | 6 25 | 1 26 | 1 54 | 1 46 | 7 36 | 1 27 | 1 59 | 1 13 | 18 2 | 1 54 | 19 26 | 0 43 | 22 19 | 0 5 | 21 40 | 1 24 | 16 51 | | 17 4 | | 20 28 | | | | n.a. |
| S 28 | 12 58 | | 20 22 | 2 49 | | 7 18 | 1 17 | 1 26 | 1 47 | 7 33 | 1 24 | 1 54 | 1 13 | 18 2 | 1 54 | 19 26 | 0 43 | 22 19 | 0 5 | 21 41 | 1 24 | 16 51 | | 17 3 | | 20 28 | | | | n.a. |
| S 29 | 13 18 | | 20 1 | 3 41 | | 8 12 | 1 7 | 0 57 | 1 47 | 7 30 | 1 22 | 1 49 | 1 14 | 18 2 | 1 54 | 19 26 | 0 43 | 22 18 | 0 5 | 21 41 | 1 24 | 16 51 | | 17 2 | | 20 28 | | | | n.a. |
| M30 | 13n37 | | 18s47 | 4n23 | | 9n 6 | 0s57 | 0s29 | 1s47 | 7n27 | 1n19 | 1s44 | 1s14 | 18n 1 | 1n54 | 19n26 | 0n43 | 22n18 | 0n 5 | 21n41 | 1s24 | 16s52 | | 17s 1 | | 20s28 | | | | n.a. |

Julian Day Number = 1701789.5, Delta T = 03h05m11s
Ecliptic obliquity = 23°42'00, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°48'20, Lahiri = - 4°41'20 Julian Calendar 1 Apr. 54 BCE == Greg. Calendar 30 March 054 BCE


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# ASTRODIENST EPHEMERIS for the year 54 BCE
# geocentric

## MAY 54 BCE (-53) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 23 2 | 6♉48'18 | 24♋ 1 | 27♈38 | 4♈ 4 | 14♍21 | 28♓41 | 16♌ 2 | 6♌57 | 19♋47 | 17♊14 | 16♏12 | 16♏41 | 16♐59 | n.a. | T 1 |
| W 2 | 14 26 58 | 7°45'42 | 6♒12 | 29°44 | 5°16 | 14°25 | 28°54 | 16° 3 | 6°57 | 19°48 | 17°15 | 16°R12 | 16°38 | 17° 5 | n.a. | W 2 |
| T 3 | 14 30 55 | 8°43'05 | 18°38 | 1♉50 | 6°27 | 14°29 | 29° 7 | 16° 4 | 6°58 | 19°49 | 17°17 | 16°12 | 16°35 | 17°12 | n.a. | T 3 |
| F 4 | 14 34 51 | 9°40'27 | 1♓23 | 3°59 | 7°38 | 14°33 | 29°19 | 16° 6 | 6°59 | 19°50 | 17°18 | 16°12 | 16°31 | 17°19 | n.a. | F 4 |
| S 5 | 14 38 48 | 10°37'48 | 14°33 | 6° 8 | 8°50 | 14°39 | 29°32 | 16° 7 | 7° 0 | 19°51 | 17°19 | 16°11 | 16°28 | 17°25 | n.a. | S 5 |
| S 6 | 14 42 44 | 11°35'09 | 28° 7 | 8°19 | 10° 1 | 14°45 | 29°44 | 16° 8 | 7° 1 | 19°52 | 17°20 | 16°11 | 16°25 | 17°32 | n.a. | S 6 |
| M 7 | 14 46 41 | 12°32'29 | 12♈ 7 | 10°30 | 11°13 | 14°52 | 29°57 | 16°10 | 7° 2 | 19°53 | 17°22 | 16°10 | 16°22 | 17°39 | n.a. | M 7 |
| T 8 | 14 50 38 | 13°29'49 | 26°31 | 12°41 | 12°24 | 15° 0 | 0♈ 9 | 16°12 | 7° 3 | 19°54 | 17°23 | 16°10 | 16°19 | 17°45 | n.a. | T 8 |
| W 9 | 14 54 34 | 14°27'07 | 11♉14 | 14°53 | 13°36 | 15° 8 | 0°21 | 16°13 | 7° 4 | 19°55 | 17°24 | 16°D10 | 16°15 | 17°52 | n.a. | W 9 |
| T 10 | 14 58 31 | 15°24'25 | 26° 9 | 17° 5 | 14°47 | 15°17 | 0°33 | 16°15 | 7° 5 | 19°56 | 17°26 | 16°10 | 16°12 | 17°59 | n.a. | T 10 |
| F 11 | 15 2 27 | 16°21'42 | 11♊ 8 | 19°16 | 15°59 | 15°27 | 0°46 | 16°17 | 7° 6 | 19°57 | 17°27 | 16°R10 | 16° 9 | 18° 5 | n.a. | F 11 |
| S 12 | 15 6 24 | 17°18'58 | 26° 4 | 21°27 | 17°11 | 15°37 | 0°58 | 16°19 | 7° 8 | 19°58 | 17°28 | 16°10 | 16° 6 | 18°12 | n.a. | S 12 |
| S 13 | 15 10 20 | 18°16'14 | 10♋48 | 23°37 | 18°22 | 15°48 | 1°10 | 16°21 | 7° 9 | 20° 0 | 17°30 | 16°10 | 16° 3 | 18°19 | n.a. | S 13 |
| M14 | 15 14 17 | 19°13'28 | 25°16 | 25°46 | 19°34 | 16° 0 | 1°21 | 16°24 | 7°10 | 20° 1 | 17°31 | 16° 9 | 16° 0 | 18°25 | n.a. | M14 |
| T 15 | 15 18 14 | 20°10'41 | 9♌23 | 27°54 | 20°46 | 16°12 | 1°33 | 16°26 | 7°12 | 20° 2 | 17°33 | 16° 9 | 15°56 | 18°32 | n.a. | T 15 |
| W16 | 15 22 10 | 21° 7'54 | 23° 9 | 29°59 | 21°58 | 16°25 | 1°45 | 16°28 | 7°13 | 20° 3 | 17°34 | 16°D 9 | 15°53 | 18°39 | n.a. | W16 |
| T 17 | 15 26 7 | 22° 5'05 | 6♍33 | 2♊ 4 | 23° 9 | 16°39 | 1°56 | 16°31 | 7°15 | 20° 5 | 17°35 | 16° 9 | 15°50 | 18°45 | n.a. | T 17 |
| F 18 | 15 30 3 | 23° 2'16 | 19°37 | 4° 7 | 24°21 | 16°53 | 2° 8 | 16°34 | 7°16 | 20° 6 | 17°37 | 16°10 | 15°47 | 18°52 | n.a. | F 18 |
| S 19 | 15 34 0 | 23°59'26 | 2♎23 | 6° 8 | 25°33 | 17° 7 | 2°19 | 16°36 | 7°18 | 20° 8 | 17°38 | 16°10 | 15°44 | 18°59 | n.a. | S 19 |
| S 20 | 15 37 56 | 24°56'35 | 14°54 | 8° 7 | 26°45 | 17°23 | 2°31 | 16°39 | 7°20 | 20° 9 | 17°40 | 16°11 | 15°41 | 19° 5 | n.a. | S 20 |
| M21 | 15 41 53 | 25°53'43 | 27°13 | 10° 3 | 27°57 | 17°38 | 2°42 | 16°42 | 7°21 | 20°10 | 17°41 | 16°12 | 15°37 | 19°12 | n.a. | M21 |
| T 22 | 15 45 49 | 26°50'51 | 9♏21 | 11°58 | 29° 9 | 17°55 | 2°53 | 16°45 | 7°23 | 20°12 | 17°43 | 16°12 | 15°34 | 19°19 | n.a. | T 22 |
| W23 | 15 49 46 | 27°47'59 | 21°21 | 13°50 | 0♉21 | 18°12 | 3° 4 | 16°48 | 7°25 | 20°13 | 17°44 | 16°R12 | 15°31 | 19°25 | n.a. | W23 |
| T 24 | 15 53 43 | 28°45'06 | 3♐16 | 15°40 | 1°33 | 18°29 | 3°15 | 16°51 | 7°27 | 20°15 | 17°45 | 16°12 | 15°28 | 19°32 | n.a. | T 24 |
| F 25 | 15 57 39 | 29°42'13 | 15° 7 | 17°28 | 2°45 | 18°47 | 3°26 | 16°55 | 7°29 | 20°16 | 17°47 | 16°11 | 15°25 | 19°39 | n.a. | F 25 |
| S 26 | 16 1 36 | 0♊39'20 | 26°56 | 19°14 | 3°57 | 19° 6 | 3°37 | 16°58 | 7°31 | 20°18 | 17°48 | 16° 9 | 15°21 | 19°45 | n.a. | S 26 |
| S 27 | 16 5 32 | 1°36'26 | 8♋46 | 20°57 | 5° 9 | 19°25 | 3°47 | 17° 1 | 7°33 | 20°20 | 17°50 | 16° 7 | 15°18 | 19°52 | n.a. | S 27 |
| M28 | 16 9 29 | 2°33'33 | 20°40 | 22°38 | 6°21 | 19°44 | 3°58 | 17° 5 | 7°35 | 20°21 | 17°51 | 16° 4 | 15°15 | 19°59 | n.a. | M28 |
| T 29 | 16 13 25 | 3°30'39 | 2♒41 | 24°17 | 7°33 | 20° 4 | 4° 9 | 17° 8 | 7°37 | 20°23 | 17°53 | 16° 2 | 15°12 | 20° 5 | n.a. | T 29 |
| W30 | 16 17 22 | 4°27'45 | 14°52 | 25°54 | 8°46 | 20°24 | 4°19 | 17°12 | 7°39 | 20°24 | 17°54 | 16° 0 | 15° 9 | 20°12 | n.a. | W30 |
| T 31 | 16 21 18 | 5♊24'52 | 27♒16 | 27♊28 | 9♉58 | 20♍45 | 4♈29 | 17♌16 | 7♌41 | 20♋26 | 17♊56 | 15♏59 | 15♏ 6 | 20♐19 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| T 1 | 13n56 | 16s43 | 4n54 | 10n 1 | 0s47 | 0s 1 | 1s48 | 7n24 | 1n16 | 1s39 | 1s14 | 18n 1 | 1n54 | 19n25 | 0n43 | 22n18 | 0n 5 | 21n41 | 1s24 | 16s52 | 17s 0 | 20s28 | | | n.a. |
| W 2 | 14 15 | 13 53 | 5 13 | 10 56 | 0 37 | 0n28 | 1 48 | 7 20 | 1 13 | 1 34 | 1 14 | 18 0 | 1 54 | 19 25 | 0 43 | 22 18 | 0 5 | 21 41 | 1 24 | 16 52 | 16 59 | 20 28 | | | n.a. |
| T 3 | 14 34 | 10 23 | 5 17 | 11 50 | 0 26 | 0 56 | 1 48 | 7 16 | 1 11 | 1 29 | 1 14 | 18 0 | 1 54 | 19 25 | 0 42 | 22 18 | 0 5 | 21 42 | 1 24 | 16 52 | 16 58 | 20 28 | | | n.a. |
| F 4 | 14 52 | 6 20 | 5 6 | 12 44 | 0 15 | 1 25 | 1 48 | 7 11 | 1 8 | 1 24 | 1 14 | 17 59 | 1 54 | 19 25 | 0 42 | 22 18 | 0 5 | 21 42 | 1 24 | 16 52 | 16 57 | 20 28 | | | n.a. |
| S 5 | 15 10 | 1 51 | 4 40 | 13 38 | 0 5 | 1 53 | 1 48 | 7 7 | 1 6 | 1 19 | 1 14 | 17 59 | 1 53 | 19 24 | 0 42 | 22 18 | 0 5 | 21 42 | 1 24 | 16 52 | 16 57 | 20 27 | | | n.a. |
| S 6 | 15 28 | 2n51 | 3 56 | 14 31 | 0n 6 | 2 22 | 1 48 | 7 2 | 1 3 | 1 14 | 1 14 | 17 58 | 1 53 | 19 24 | 0 42 | 22 18 | 0 5 | 21 42 | 1 24 | 16 51 | 16 56 | 20 27 | | | n.a. |
| M 7 | 15 46 | 7 34 | 2 58 | 15 23 | 0 17 | 2 50 | 1 47 | 6 57 | 1 0 | 1 10 | 1 15 | 17 58 | 1 53 | 19 24 | 0 42 | 22 17 | 0 5 | 21 42 | 1 23 | 16 51 | 16 55 | 20 27 | | | n.a. |
| T 8 | 16 4 | 12 0 | 1 47 | 16 14 | 0 27 | 3 19 | 1 47 | 6 52 | 0 58 | 1 5 | 1 15 | 17 57 | 1 53 | 19 24 | 0 42 | 22 17 | 0 5 | 21 43 | 1 23 | 16 51 | 16 54 | 20 27 | | | n.a. |
| W 9 | 16 21 | 15 48 | 0 27 | 17 4 | 0 37 | 3 47 | 1 47 | 6 46 | 0 55 | 1 0 | 1 15 | 17 56 | 1 53 | 19 23 | 0 42 | 22 17 | 0 5 | 21 43 | 1 23 | 16 51 | 16 53 | 20 27 | | | n.a. |
| T 10 | 16 38 | 18 36 | 0s55 | 17 52 | 0 47 | 4 15 | 1 46 | 6 40 | 0 53 | 0 55 | 1 15 | 17 56 | 1 53 | 19 23 | 0 42 | 22 17 | 0 5 | 21 43 | 1 23 | 16 51 | 16 52 | 20 27 | | | n.a. |
| F 11 | 16 55 | 20 8 | 2 14 | 18 38 | 0 56 | 4 44 | 1 46 | 6 34 | 0 50 | 0 50 | 1 15 | 17 55 | 1 53 | 19 23 | 0 42 | 22 17 | 0 5 | 21 43 | 1 23 | 16 51 | 16 51 | 20 27 | | | n.a. |
| S 12 | 17 11 | 20 14 | 3 24 | 19 22 | 1 5 | 5 12 | 1 45 | 6 28 | 0 48 | 0 46 | 1 15 | 17 54 | 1 52 | 19 22 | 0 42 | 22 17 | 0 5 | 21 43 | 1 23 | 16 51 | 16 50 | 20 26 | | | n.a. |
| S 13 | 17 27 | 18 57 | 4 19 | 20 4 | 1 13 | 5 40 | 1 44 | 6 21 | 0 46 | 0 41 | 1 15 | 17 53 | 1 52 | 19 22 | 0 42 | 22 16 | 0 5 | 21 44 | 1 23 | 16 51 | 16 49 | 20 26 | | | n.a. |
| M14 | 17 43 | 16 27 | 4 57 | 20 43 | 1 21 | 6 8 | 1 44 | 6 15 | 0 43 | 0 36 | 1 15 | 17 53 | 1 52 | 19 21 | 0 42 | 22 16 | 0 5 | 21 44 | 1 23 | 16 51 | 16 48 | 20 26 | | | n.a. |
| T 15 | 17 59 | 13 2 | 5 15 | 21 21 | 1 28 | 6 36 | 1 43 | 6 8 | 0 41 | 0 32 | 1 16 | 17 52 | 1 52 | 19 21 | 0 42 | 22 16 | 0 5 | 21 44 | 1 23 | 16 51 | 16 47 | 20 26 | | | n.a. |
| W16 | 18 14 | 8 59 | 5 15 | 21 55 | 1 35 | 7 4 | 1 42 | 6 0 | 0 39 | 0 27 | 1 16 | 17 51 | 1 52 | 19 21 | 0 42 | 22 16 | 0 5 | 21 44 | 1 23 | 16 51 | 16 46 | 20 26 | | | n.a. |
| T 17 | 18 29 | 4 36 | 4 58 | 22 27 | 1 41 | 7 32 | 1 41 | 5 53 | 0 36 | 0 23 | 1 16 | 17 50 | 1 52 | 19 20 | 0 42 | 22 16 | 0 5 | 21 44 | 1 23 | 16 51 | 16 45 | 20 26 | | | n.a. |
| F 18 | 18 44 | 0 6 | 4 25 | 22 56 | 1 46 | 8 0 | 1 40 | 5 45 | 0 34 | 0 18 | 1 16 | 17 49 | 1 52 | 19 20 | 0 42 | 22 16 | 0 5 | 21 45 | 1 23 | 16 51 | 16 45 | 20 25 | | | n.a. |
| S 19 | 18 58 | 4s19 | 3 40 | 23 23 | 1 51 | 8 27 | 1 39 | 5 38 | 0 32 | 0 14 | 1 16 | 17 48 | 1 52 | 19 19 | 0 42 | 22 15 | 0 5 | 21 45 | 1 23 | 16 51 | 16 44 | 20 25 | | | n.a. |
| S 20 | 19 13 | 8 28 | 2 45 | 23 47 | 1 55 | 8 54 | 1 38 | 5 30 | 0 30 | 0 9 | 1 16 | 17 47 | 1 51 | 19 19 | 0 42 | 22 15 | 0 5 | 21 45 | 1 23 | 16 52 | 16 43 | 20 25 | | | n.a. |
| M21 | 19 26 | 12 12 | 1 43 | 24 9 | 1 58 | 9 22 | 1 36 | 5 21 | 0 27 | 0 5 | 1 17 | 17 46 | 1 51 | 19 18 | 0 42 | 22 15 | 0 5 | 21 45 | 1 22 | 16 52 | 16 42 | 20 25 | | | n.a. |
| T 22 | 19 40 | 15 22 | 0 38 | 24 27 | 2 0 | 9 49 | 1 35 | 5 13 | 0 25 | 0 1 | 1 17 | 17 45 | 1 51 | 19 18 | 0 42 | 22 15 | 0 5 | 21 45 | 1 22 | 16 52 | 16 41 | 20 25 | | | n.a. |
| W23 | 19 53 | 17 50 | 0n29 | 24 44 | 2 2 | 10 15 | 1 34 | 5 4 | 0 23 | 0n 4 | 1 17 | 17 44 | 1 51 | 19 17 | 0 42 | 22 14 | 0 5 | 21 46 | 1 22 | 16 52 | 16 40 | 20 24 | | | n.a. |
| T 24 | 20 6 | 19 31 | 1 33 | 24 58 | 2 3 | 10 42 | 1 32 | 4 56 | 0 21 | 0 8 | 1 17 | 17 43 | 1 51 | 19 17 | 0 42 | 22 14 | 0 5 | 21 46 | 1 22 | 16 52 | 16 39 | 20 24 | | | n.a. |
| F 25 | 20 18 | 20 19 | 2 33 | 25 9 | 2 3 | 11 8 | 1 31 | 4 47 | 0 19 | 0 12 | 1 17 | 17 42 | 1 51 | 19 16 | 0 42 | 22 14 | 0 5 | 21 46 | 1 22 | 16 51 | 16 38 | 20 24 | | | n.a. |
| S 26 | 20 31 | 20 13 | 3 27 | 25 18 | 2 3 | 11 34 | 1 29 | 4 37 | 0 17 | 0 16 | 1 17 | 17 41 | 1 51 | 19 16 | 0 42 | 22 14 | 0 5 | 21 46 | 1 22 | 16 51 | 16 37 | 20 24 | | | n.a. |
| S 27 | 20 42 | 19 13 | 4 11 | 25 25 | 2 2 | 12 0 | 1 28 | 4 28 | 0 15 | 0 20 | 1 18 | 17 39 | 1 51 | 19 15 | 0 42 | 22 14 | 0 5 | 21 46 | 1 22 | 16 50 | 16 36 | 20 24 | | | n.a. |
| M28 | 20 54 | 17 23 | 4 45 | 25 30 | 2 0 | 12 26 | 1 26 | 4 19 | 0 13 | 0 24 | 1 18 | 17 38 | 1 50 | 19 15 | 0 42 | 22 13 | 0 5 | 21 47 | 1 22 | 16 50 | 16 35 | 20 23 | | | n.a. |
| T 29 | 21 5 | 14 47 | 5 7 | 25 32 | 1 58 | 12 51 | 1 24 | 4 9 | 0 11 | 0 28 | 1 18 | 17 37 | 1 50 | 19 14 | 0 42 | 22 13 | 0 5 | 21 47 | 1 22 | 16 49 | 16 34 | 20 23 | | | n.a. |
| W30 | 21 16 | 11 31 | 5 16 | 25 33 | 1 55 | 13 16 | 1 23 | 3 59 | 0 9 | 0 32 | 1 18 | 17 36 | 1 50 | 19 14 | 0 42 | 22 13 | 0 5 | 21 47 | 1 22 | 16 48 | 16 33 | 20 23 | | | n.a. |
| T 31 | 21n26 | 7s42 | 5n10 | 25n32 | 1n51 | 13n41 | 1s21 | 3n49 | 0n 7 | 0n36 | 1s18 | 17n34 | 1n50 | 19n13 | 0n42 | 22n13 | 0n 5 | 21n47 | 1s22 | 16s48 | 16s32 | 20s23 | | | n.a. |

Julian Day Number = 1701819.5, Delta T = 03h05m11s
Ecliptic obliquity = 23°41'59, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°48'16, Lahiri = - 4°41'16 Julian Calendar 1 May 54 BCE == Greg. Calendar 29 Apr. 054 BCE

The year -53 astronomical counting style corresponds to year 054 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 54 BCE
# geocentric

## JUNE 54 BCE (-53) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 16 25 15 | 6♊21'59 | 9♓59 | 29♊ 0 | 11♉10 | 21♍ 6 | 4♈39 | 17♌20 | 7♌43 | 20♋28 | 17♊57 | 15°D59 | 15♏ 2 | 20♐25 | n.a. | F 1 |
| S 2 | 16 29 12 | 7°19'06 | 23° 3 | 0♋30 | 12°23 | 21°28 | 4°49 | 17°24 | 7°45 | 20°30 | 17°59 | 16♏ 0 | 14°59 | 20°32 | n.a. | S 2 |
| S 3 | 16 33 8 | 8°16'13 | 6♈31 | 1°57 | 13°35 | 21°50 | 4°59 | 17°28 | 7°48 | 20°31 | 18° 1 | 16° 1 | 14°56 | 20°39 | n.a. | S 3 |
| M 4 | 16 37 5 | 9°13'20 | 20°26 | 3°22 | 14°47 | 22°13 | 5° 9 | 17°32 | 7°50 | 20°33 | 18° 2 | 16° 2 | 14°53 | 20°45 | n.a. | M 4 |
| T 5 | 16 41 1 | 10°10'28 | 4♉47 | 4°45 | 16° 0 | 22°36 | 5°19 | 17°36 | 7°52 | 20°35 | 18° 4 | 16° 3 | 14°50 | 20°52 | n.a. | T 5 |
| W 6 | 16 44 58 | 11° 7'36 | 19°31 | 6° 5 | 17°12 | 22°59 | 5°28 | 17°40 | 7°55 | 20°37 | 18° 5 | 16°R 4 | 14°47 | 20°59 | n.a. | W 6 |
| T 7 | 16 48 54 | 12° 4'45 | 4♊33 | 7°22 | 18°25 | 23°23 | 5°38 | 17°45 | 7°57 | 20°38 | 18° 7 | 16° 3 | 14°43 | 21° 5 | n.a. | T 7 |
| F 8 | 16 52 51 | 13° 1'53 | 19°45 | 8°38 | 19°37 | 23°47 | 5°47 | 17°49 | 8° 0 | 20°40 | 18° 8 | 16° 1 | 14°40 | 21°12 | n.a. | F 8 |
| S 9 | 16 56 47 | 13°59'02 | 4♋56 | 9°50 | 20°50 | 24°12 | 5°56 | 17°53 | 8° 2 | 20°42 | 18°10 | 15°57 | 14°37 | 21°19 | n.a. | S 9 |
| S 10 | 17 0 44 | 14°56'11 | 19°58 | 11° 0 | 22° 2 | 24°37 | 6° 6 | 17°58 | 8° 5 | 20°44 | 18°11 | 15°53 | 14°34 | 21°25 | n.a. | S 10 |
| M11 | 17 4 41 | 15°53'20 | 4♌41 | 12° 7 | 23°15 | 25° 2 | 6°15 | 18° 3 | 8° 7 | 20°46 | 18°13 | 15°50 | 14°31 | 21°32 | n.a. | M11 |
| T 12 | 17 8 37 | 16°50'29 | 19° 0 | 13°11 | 24°28 | 25°28 | 6°23 | 18° 7 | 8°10 | 20°48 | 18°14 | 15°46 | 14°27 | 21°39 | n.a. | T 12 |
| W13 | 17 12 34 | 17°47'38 | 2♍53 | 14°13 | 25°40 | 25°54 | 6°32 | 18°12 | 8°13 | 20°50 | 18°16 | 15°44 | 14°24 | 21°45 | n.a. | W13 |
| T 14 | 17 16 30 | 18°44'46 | 16°18 | 15°11 | 26°53 | 26°21 | 6°41 | 18°17 | 8°16 | 20°52 | 18°18 | 15°D43 | 14°21 | 21°52 | n.a. | T 14 |
| F 15 | 17 20 27 | 19°41'55 | 29°18 | 16° 6 | 28° 6 | 26°48 | 6°49 | 18°22 | 8°18 | 20°54 | 18°19 | 15°43 | 14°18 | 21°59 | n.a. | F 15 |
| S 16 | 17 24 23 | 20°39'04 | 11♎57 | 16°59 | 29°18 | 27°15 | 6°58 | 18°27 | 8°21 | 20°56 | 18°21 | 15°45 | 14°15 | 22° 5 | n.a. | S 16 |
| S 17 | 17 28 20 | 21°36'14 | 24°18 | 17°47 | 0♊31 | 27°42 | 7° 6 | 18°32 | 8°24 | 20°57 | 18°22 | 15°46 | 14°12 | 22°12 | n.a. | S 17 |
| M18 | 17 32 16 | 22°33'23 | 6♏26 | 18°32 | 1°44 | 28°10 | 7°14 | 18°37 | 8°27 | 20°59 | 18°24 | 15°48 | 14° 8 | 22°19 | n.a. | M18 |
| T 19 | 17 36 13 | 23°30'33 | 18°25 | 19°14 | 2°57 | 28°38 | 7°22 | 18°42 | 8°30 | 21° 1 | 18°25 | 15°R48 | 14° 5 | 22°26 | n.a. | T 19 |
| W20 | 17 40 10 | 24°27'44 | 0♐18 | 19°52 | 4°10 | 29° 7 | 7°29 | 18°48 | 8°33 | 21° 4 | 18°27 | 15°47 | 14° 2 | 22°32 | n.a. | W20 |
| T 21 | 17 44 6 | 25°24'54 | 12° 8 | 20°26 | 5°23 | 29°36 | 7°37 | 18°53 | 8°36 | 21° 6 | 18°28 | 15°44 | 13°59 | 22°39 | n.a. | T 21 |
| F 22 | 17 48 3 | 26°22'06 | 23°57 | 20°55 | 6°36 | 0♑ 5 | 7°45 | 18°58 | 8°38 | 21° 8 | 18°30 | 15°39 | 13°56 | 22°46 | n.a. | F 22 |
| S 23 | 17 51 59 | 27°19'18 | 5♑48 | 21°21 | 7°49 | 0°34 | 7°52 | 19° 4 | 8°42 | 21°10 | 18°31 | 15°33 | 13°53 | 22°52 | n.a. | S 23 |
| S 24 | 17 55 56 | 28°16'31 | 17°42 | 21°42 | 9° 2 | 1° 4 | 7°59 | 19° 9 | 8°45 | 21°12 | 18°33 | 15°25 | 13°49 | 22°59 | n.a. | S 24 |
| M25 | 17 59 52 | 29°13'44 | 29°42 | 21°59 | 10°15 | 1°34 | 8° 6 | 19°15 | 8°48 | 21°14 | 18°35 | 15°17 | 13°46 | 23° 6 | n.a. | M25 |
| T 26 | 18 3 49 | 0♋10'59 | 11♒48 | 22°11 | 11°28 | 2° 4 | 8°13 | 19°21 | 8°51 | 21°16 | 18°36 | 15°10 | 13°43 | 23°12 | n.a. | T 26 |
| W27 | 18 7 46 | 1° 8'14 | 24° 4 | 22°17 | 12°41 | 2°34 | 8°20 | 19°26 | 8°54 | 21°18 | 18°38 | 15° 3 | 13°40 | 23°19 | n.a. | W27 |
| T 28 | 18 11 42 | 2° 5'30 | 6♓32 | 22°R20 | 13°54 | 3° 5 | 8°27 | 19°32 | 8°57 | 21°20 | 18°39 | 14°58 | 13°37 | 23°26 | n.a. | T 28 |
| F 29 | 18 15 39 | 3° 2'47 | 19°14 | 22°17 | 15° 7 | 3°36 | 8°33 | 19°38 | 9° 0 | 21°22 | 18°41 | 14°55 | 13°33 | 23°32 | n.a. | F 29 |
| S 30 | 18 19 35 | 4♋ 0'06 | 2♈15 | 22♋ 8 | 16♊20 | 4♎ 8 | 8♈39 | 19♌44 | 9♌ 3 | 21♋24 | 18♊42 | 14°D54 | 13♏30 | 23♐39 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 21n36 | 3s28 | 4n49 | 25n29 | 1n47 | 14n 6 | 1s19 | 3n39 | 0n 6 | 0n40 | 1s18 | 17n33 | 1n50 | 19n12 | 0n42 | 22n12 | 0n 5 | 21n47 | 1s22 | 16s48 | 16s31 | 20s22 | | n.a. |
| S 2 | 21 46 | 1n 4 | 4 12 | 25 24 | 1 42 | 14 30 | 1 17 | 3 29 | 0 4 | 0 44 | 1 19 | 17 32 | 1 50 | 19 12 | 0 42 | 22 12 | 0 5 | 21 48 | 1 22 | 16 48 | 16 30 | 20 22 | | n.a. |
| S 3 | 21 55 | 5 41 | 3 21 | 25 18 | 1 37 | 14 54 | 1 15 | 3 18 | 0 2 | 0 48 | 1 19 | 17 30 | 1 50 | 19 11 | 0 42 | 22 12 | 0 5 | 21 48 | 1 22 | 16 49 | 16 30 | 20 22 | | n.a. |
| M 4 | 22 4 | 10 10 | 2 17 | 25 10 | 1 31 | 15 17 | 1 13 | 3 7 | 0 0 | 0 52 | 1 19 | 17 29 | 1 50 | 19 11 | 0 41 | 22 12 | 0 5 | 21 48 | 1 21 | 16 49 | 16 29 | 20 22 | | n.a. |
| T 5 | 22 13 | 14 13 | 1 2 | 25 1 | 1 24 | 15 40 | 1 11 | 2 57 | 0s 2 | 0 55 | 1 19 | 17 28 | 1 50 | 19 10 | 0 41 | 22 11 | 0 5 | 21 48 | 1 21 | 16 49 | 16 28 | 20 21 | | n.a. |
| W 6 | 22 21 | 17 30 | 0s19 | 24 50 | 1 17 | 16 3 | 1 9 | 2 46 | 0 3 | 0 59 | 1 19 | 17 26 | 1 49 | 19 9 | 0 41 | 22 11 | 0 5 | 21 49 | 1 21 | 16 49 | 16 27 | 20 21 | | n.a. |
| T 7 | 22 29 | 19 39 | 1 40 | 24 39 | 1 9 | 16 25 | 1 7 | 2 35 | 0 5 | 1 3 | 1 20 | 17 25 | 1 49 | 19 9 | 0 41 | 22 11 | 0 5 | 21 49 | 1 21 | 16 49 | 16 26 | 20 21 | | n.a. |
| F 8 | 22 37 | 20 24 | 2 55 | 24 26 | 1 1 | 16 47 | 1 5 | 2 23 | 0 7 | 1 6 | 1 20 | 17 23 | 1 49 | 19 8 | 0 41 | 22 11 | 0 5 | 21 49 | 1 21 | 16 49 | 16 25 | 20 21 | | n.a. |
| S 9 | 22 44 | 19 40 | 3 57 | 24 12 | 0 52 | 17 9 | 1 3 | 2 12 | 0 8 | 1 10 | 1 20 | 17 22 | 1 49 | 19 7 | 0 41 | 22 10 | 0 5 | 21 49 | 1 21 | 16 48 | 16 24 | 20 20 | | n.a. |
| S 10 | 22 50 | 17 33 | 4 42 | 23 57 | 0 43 | 17 30 | 1 0 | 2 0 | 0 10 | 1 13 | 1 20 | 17 20 | 1 49 | 19 7 | 0 41 | 22 10 | 0 5 | 21 49 | 1 21 | 16 46 | 16 23 | 20 20 | | n.a. |
| M11 | 22 57 | 14 20 | 5 7 | 23 41 | 0 33 | 17 51 | 0 58 | 1 49 | 0 12 | 1 17 | 1 20 | 17 19 | 1 49 | 19 6 | 0 41 | 22 10 | 0 5 | 21 50 | 1 21 | 16 45 | 16 22 | 20 20 | | n.a. |
| T 12 | 23 2 | 10 20 | 5 13 | 23 25 | 0 23 | 18 11 | 0 56 | 1 37 | 0 13 | 1 20 | 1 21 | 17 17 | 1 49 | 19 5 | 0 41 | 22 9 | 0 5 | 21 50 | 1 21 | 16 44 | 16 21 | 20 19 | | n.a. |
| W13 | 23 8 | 5 54 | 4 59 | 23 8 | 0 12 | 18 31 | 0 54 | 1 25 | 0 15 | 1 23 | 1 21 | 17 16 | 1 49 | 19 4 | 0 41 | 22 9 | 0 5 | 21 50 | 1 21 | 16 44 | 16 20 | 20 19 | | n.a. |
| T 14 | 23 13 | 1 19 | 4 30 | 22 51 | 0 1 | 18 50 | 0 51 | 1 13 | 0 16 | 1 26 | 1 21 | 17 14 | 1 49 | 19 4 | 0 41 | 22 9 | 0 5 | 21 50 | 1 21 | 16 43 | 16 19 | 20 19 | | n.a. |
| F 15 | 23 18 | 3s11 | 3 47 | 22 33 | 0s10 | 19 9 | 0 49 | 1 1 | 0 18 | 1 30 | 1 21 | 17 12 | 1 48 | 19 3 | 0 41 | 22 9 | 0 5 | 21 50 | 1 21 | 16 44 | 16 18 | 20 19 | | n.a. |
| S 16 | 23 22 | 7 27 | 2 54 | 22 15 | 0 22 | 19 28 | 0 47 | 0 49 | 0 19 | 1 33 | 1 22 | 17 11 | 1 48 | 19 2 | 0 41 | 22 8 | 0 5 | 21 50 | 1 21 | 16 44 | 16 17 | 20 18 | | n.a. |
| S 17 | 23 26 | 11 18 | 1 55 | 21 56 | 0 34 | 19 46 | 0 44 | 0 36 | 0 21 | 1 36 | 1 22 | 17 9 | 1 48 | 19 1 | 0 41 | 22 8 | 0 5 | 21 51 | 1 21 | 16 44 | 16 16 | 20 18 | | n.a. |
| M18 | 23 29 | 14 37 | 0 51 | 21 38 | 0 47 | 20 3 | 0 42 | 0 24 | 0 22 | 1 39 | 1 22 | 17 7 | 1 48 | 19 1 | 0 41 | 22 8 | 0 5 | 21 51 | 1 21 | 16 45 | 16 15 | 20 18 | | n.a. |
| T 19 | 23 32 | 17 16 | 0n14 | 21 19 | 1 0 | 20 20 | 0 39 | 0 11 | 0 24 | 1 42 | 1 22 | 17 6 | 1 48 | 19 0 | 0 41 | 22 7 | 0 5 | 21 51 | 1 21 | 16 45 | 16 14 | 20 17 | | n.a. |
| W20 | 23 35 | 19 10 | 1 18 | 21 1 | 1 13 | 20 36 | 0 37 | 0s 2 | 0 25 | 1 45 | 1 22 | 17 4 | 1 48 | 18 59 | 0 41 | 22 7 | 0 5 | 21 51 | 1 21 | 16 45 | 16 13 | 20 17 | | n.a. |
| T 21 | 23 37 | 20 12 | 2 18 | 20 42 | 1 26 | 20 52 | 0 34 | 0 15 | 0 27 | 1 48 | 1 23 | 17 2 | 1 48 | 18 58 | 0 41 | 22 7 | 0 5 | 21 51 | 1 20 | 16 44 | 16 12 | 20 17 | | n.a. |
| F 22 | 23 39 | 20 22 | 3 12 | 20 24 | 1 40 | 21 7 | 0 32 | 0 28 | 0 28 | 1 50 | 1 23 | 17 0 | 1 48 | 18 57 | 0 41 | 22 6 | 0 5 | 21 52 | 1 20 | 16 42 | 16 11 | 20 16 | | n.a. |
| S 23 | 23 40 | 19 37 | 3 58 | 20 7 | 1 54 | 21 22 | 0 29 | 0 41 | 0 29 | 1 53 | 1 23 | 16 58 | 1 48 | 18 57 | 0 41 | 22 6 | 0 5 | 21 52 | 1 20 | 16 40 | 16 11 | 20 16 | | n.a. |
| S 24 | 23 41 | 18 0 | 4 33 | 19 50 | 2 8 | 21 36 | 0 27 | 0 54 | 0 31 | 1 56 | 1 23 | 16 57 | 1 48 | 18 56 | 0 41 | 22 6 | 0 5 | 21 52 | 1 20 | 16 38 | 16 10 | 20 16 | | n.a. |
| M25 | 23 42 | 15 36 | 4 57 | 19 33 | 2 22 | 21 50 | 0 24 | 1 7 | 0 32 | 1 58 | 1 24 | 16 55 | 1 48 | 18 55 | 0 41 | 22 6 | 0 5 | 21 52 | 1 20 | 16 36 | 16 9 | 20 15 | | n.a. |
| T 26 | 23 42 | 12 30 | 5 8 | 19 18 | 2 35 | 22 3 | 0 22 | 1 20 | 0 33 | 2 1 | 1 24 | 16 53 | 1 48 | 18 54 | 0 41 | 22 5 | 0 5 | 21 52 | 1 20 | 16 34 | 16 8 | 20 15 | | n.a. |
| W27 | 23 42 | 8 51 | 5 5 | 19 3 | 2 49 | 22 15 | 0 19 | 1 34 | 0 35 | 2 3 | 1 24 | 16 51 | 1 48 | 18 53 | 0 41 | 22 5 | 0 5 | 21 53 | 1 20 | 16 32 | 16 7 | 20 15 | | n.a. |
| T 28 | 23 41 | 4 46 | 4 47 | 18 49 | 3 3 | 22 26 | 0 17 | 1 47 | 0 36 | 2 6 | 1 24 | 16 49 | 1 47 | 18 52 | 0 41 | 22 5 | 0 5 | 21 53 | 1 20 | 16 30 | 16 6 | 20 14 | | n.a. |
| F 29 | 23 40 | 0 24 | 4 15 | 18 37 | 3 16 | 22 38 | 0 14 | 2 1 | 0 37 | 2 8 | 1 25 | 16 47 | 1 47 | 18 51 | 0 41 | 22 4 | 0 5 | 21 53 | 1 20 | 16 29 | 16 5 | 20 14 | | n.a. |
| S 30 | 23n38 | 4n 6 | 3n29 | 18n25 | 3s29 | 22n48 | 0s12 | 2s15 | 0s38 | 2n10 | 1s25 | 16n45 | 1n47 | 18n51 | 0n41 | 22n 4 | 0n 5 | 21n53 | 1s20 | 16s29 | 16s 4 | 20s14 | | n.a. |

Julian Day Number = 1701850.5, Delta T = 03h05m10s
Ecliptic obliquity = 23°41'59, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°48'12, Lahiri = - 4°41'12 Julian Calendar 1 June 54 BCE == Greg. Calendar 30 May 054 BCE

The year -53 astronomical counting style corresponds to year 054 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 54 BCE
# geocentric

## JULY 54 BCE (-53) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 23 32 | 4♋57'25 | 15♈36 | 21°R55 | 17♊34 | 4♎39 | 8♈45 | 19♌50 | 9♌ 7 | 21♋27 | 18♊44 | 14♏55 | 13♏27 | 23♐46 | n.a. | S 1 |
| M 2 | 18 27 28 | 5°54'46 | 29°22 | 21♋37 | 18°47 | 5°11 | 8°51 | 19°56 | 9°10 | 21°29 | 18°45 | 14°56 | 13°24 | 23°52 | n.a. | M 2 |
| T 3 | 18 31 25 | 6°52'09 | 13♉32 | 21°14 | 20° 0 | 5°43 | 8°57 | 20° 2 | 9°13 | 21°31 | 18°47 | 14°R56 | 13°21 | 23°59 | n.a. | T 3 |
| W 4 | 18 35 21 | 7°49'32 | 28° 6 | 20°46 | 21°14 | 6°15 | 9° 3 | 20° 8 | 9°17 | 21°33 | 18°48 | 14°56 | 13°18 | 24° 6 | n.a. | W 4 |
| T 5 | 18 39 18 | 8°46'57 | 13♊ 0 | 20°14 | 22°27 | 6°48 | 9° 8 | 20°14 | 9°20 | 21°35 | 18°50 | 14°53 | 13°14 | 24°12 | n.a. | T 5 |
| F 6 | 18 43 15 | 9°44'23 | 28° 9 | 19°38 | 23°41 | 7°21 | 9°14 | 20°20 | 9°23 | 21°37 | 18°51 | 14°48 | 13°11 | 24°19 | n.a. | F 6 |
| S 7 | 18 47 11 | 10°41'50 | 13♋22 | 18°58 | 24°54 | 7°54 | 9°19 | 20°27 | 9°27 | 21°40 | 18°53 | 14°41 | 13° 8 | 24°26 | n.a. | S 7 |
| S 8 | 18 51 8 | 11°39'18 | 28°29 | 18°15 | 26° 8 | 8°27 | 9°24 | 20°33 | 9°30 | 21°42 | 18°54 | 14°33 | 13° 5 | 24°32 | n.a. | S 8 |
| M 9 | 18 55 4 | 12°36'47 | 13♌21 | 17°29 | 27°21 | 9° 1 | 9°29 | 20°39 | 9°34 | 21°44 | 18°55 | 14°24 | 13° 2 | 24°39 | n.a. | M 9 |
| T 10 | 18 59 1 | 13°34'18 | 27°49 | 16°43 | 28°35 | 9°35 | 9°33 | 20°46 | 9°37 | 21°46 | 18°57 | 14°16 | 12°59 | 24°46 | n.a. | T 10 |
| W11 | 19 2 57 | 14°31'49 | 11♍48 | 15°55 | 29°48 | 10° 9 | 9°38 | 20°52 | 9°41 | 21°48 | 18°58 | 14°10 | 12°55 | 24°52 | n.a. | W11 |
| T 12 | 19 6 54 | 15°29'21 | 25°19 | 15° 7 | 1♋ 2 | 10°43 | 9°42 | 20°58 | 9°44 | 21°51 | 19° 0 | 14° 6 | 12°52 | 24°59 | n.a. | T 12 |
| F 13 | 19 10 50 | 16°26'54 | 8♎21 | 14°20 | 2°16 | 11°17 | 9°46 | 21° 5 | 9°48 | 21°53 | 19° 1 | 14° 4 | 12°49 | 25° 6 | n.a. | F 13 |
| S 14 | 19 14 47 | 17°24'28 | 21° 0 | 13°35 | 3°29 | 11°52 | 9°50 | 21°12 | 9°51 | 21°55 | 19° 3 | 14°D 4 | 12°46 | 25°12 | n.a. | S 14 |
| S 15 | 19 18 44 | 18°22'03 | 3♏18 | 12°53 | 4°43 | 12°27 | 9°54 | 21°18 | 9°55 | 21°57 | 19° 4 | 14° 5 | 12°43 | 25°19 | n.a. | S 15 |
| M16 | 19 22 40 | 19°19'39 | 15°22 | 12°15 | 5°57 | 13° 2 | 9°57 | 21°25 | 9°58 | 22° 0 | 19° 5 | 14°R 5 | 12°39 | 25°26 | n.a. | M16 |
| T 17 | 19 26 37 | 20°17'16 | 27°17 | 11°41 | 7°11 | 13°37 | 10° 1 | 21°32 | 10° 2 | 22° 2 | 19° 7 | 14° 4 | 12°36 | 25°33 | n.a. | T 17 |
| W18 | 19 30 33 | 21°14'55 | 9♐ 6 | 11°12 | 8°25 | 14°13 | 10° 4 | 21°38 | 10° 5 | 22° 4 | 19° 8 | 14° 1 | 12°33 | 25°39 | n.a. | W18 |
| T 19 | 19 34 30 | 22°12'34 | 20°55 | 10°49 | 9°38 | 14°48 | 10° 7 | 21°45 | 10° 9 | 22° 6 | 19° 9 | 13°56 | 12°30 | 25°46 | n.a. | T 19 |
| F 20 | 19 38 26 | 23°10'15 | 2♑46 | 10°32 | 10°52 | 15°24 | 10°10 | 21°52 | 10°13 | 22° 8 | 19°11 | 13°48 | 12°27 | 25°53 | n.a. | F 20 |
| S 21 | 19 42 23 | 24° 7'58 | 14°41 | 10°22 | 12° 6 | 16° 0 | 10°12 | 21°59 | 10°16 | 22°11 | 19°12 | 13°37 | 12°24 | 25°59 | n.a. | S 21 |
| S 22 | 19 46 19 | 25° 5'42 | 26°43 | 10°D19 | 13°20 | 16°37 | 10°15 | 22° 6 | 10°20 | 22°13 | 19°13 | 13°25 | 12°20 | 26° 6 | n.a. | S 22 |
| M23 | 19 50 16 | 26° 3'27 | 8♒52 | 10°24 | 14°34 | 17°13 | 10°17 | 22°12 | 10°24 | 22°15 | 19°15 | 13°12 | 12°17 | 26°13 | n.a. | M23 |
| T 24 | 19 54 13 | 27° 1'14 | 21°10 | 10°37 | 15°48 | 17°50 | 10°19 | 22°19 | 10°27 | 22°17 | 19°16 | 13° 0 | 12°14 | 26°19 | n.a. | T 24 |
| W25 | 19 58 9 | 27°59'03 | 3♓37 | 10°57 | 17° 2 | 18°26 | 10°21 | 22°26 | 10°31 | 22°20 | 19°17 | 12°49 | 12°11 | 26°26 | n.a. | W25 |
| T 26 | 20 2 6 | 28°56'53 | 16°15 | 11°25 | 18°16 | 19° 3 | 10°23 | 22°33 | 10°35 | 22°22 | 19°18 | 12°40 | 12° 8 | 26°33 | n.a. | T 26 |
| F 27 | 20 6 2 | 29°54'45 | 29° 5 | 12° 0 | 19°31 | 19°40 | 10°24 | 22°40 | 10°38 | 22°24 | 19°20 | 12°35 | 12° 4 | 26°39 | n.a. | F 27 |
| S 28 | 20 9 59 | 0♌52'39 | 12♈ 9 | 12°44 | 20°45 | 20°18 | 10°25 | 22°47 | 10°42 | 22°26 | 19°21 | 12°31 | 12° 1 | 26°46 | n.a. | S 28 |
| S 29 | 20 13 55 | 1°50'35 | 25°29 | 13°34 | 21°59 | 20°55 | 10°26 | 22°54 | 10°46 | 22°28 | 19°22 | 12°30 | 11°58 | 26°53 | n.a. | S 29 |
| M30 | 20 17 52 | 2°48'33 | 9♉ 8 | 14°32 | 23°13 | 21°33 | 10°27 | 23° 2 | 10°50 | 22°31 | 19°23 | 12°30 | 11°55 | 26°59 | n.a. | M30 |
| T 31 | 20 21 48 | 3♌46'33 | 23♉ 6 | 15♋36 | 24♋27 | 22♎11 | 10♈28 | 23♌ 9 | 10♌53 | 22♋33 | 19♊25 | 12♏30 | 11♏52 | 27♐ 6 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| S 1 | 23n36 | 8n32 | 2n31 | 18n15 | 3s41 | 22n58 | 0s 9 | 2s28 | 0s40 | 2n13 | 1s25 | 16n43 | 1n47 | 18n50 | 0n41 | 22n 4 | 0n 5 | 21n53 | 1s20 | 16s29 | 16s 3 | 20s13 | | | n.a. |
| M 2 | 23 34 | 12 39 | 1 23 | 18 7 | 3 53 | 23 7 | 0 6 | 2 42 | 0 41 | 2 15 | 1 25 | 16 41 | 1 47 | 18 49 | 0 41 | 22 3 | 0 5 | 21 53 | 1 20 | 16 29 | 16 2 | 20 13 | | | n.a. |
| T 3 | 23 31 | 16 11 | 0 8 | 18 0 | 4 3 | 23 15 | 0 4 | 2 56 | 0 42 | 2 17 | 1 25 | 16 39 | 1 47 | 18 48 | 0 41 | 22 3 | 0 5 | 21 54 | 1 20 | 16 30 | 16 1 | 20 12 | | | n.a. |
| W 4 | 23 28 | 18 49 | 1s10 | 17 54 | 4 13 | 23 23 | 0 1 | 3 10 | 0 43 | 2 19 | 1 26 | 16 37 | 1 47 | 18 47 | 0 41 | 22 3 | 0 5 | 21 54 | 1 20 | 16 29 | 16 0 | 20 12 | | | n.a. |
| T 5 | 23 24 | 20 13 | 2 25 | 17 50 | 4 22 | 23 30 | 0n 1 | 3 24 | 0 44 | 2 21 | 1 26 | 16 35 | 1 47 | 18 46 | 0 41 | 22 2 | 0 5 | 21 54 | 1 20 | 16 29 | 15 59 | 20 12 | | | n.a. |
| F 6 | 23 20 | 20 11 | 3 30 | 17 48 | 4 29 | 23 36 | 0 4 | 3 39 | 0 46 | 2 23 | 1 26 | 16 33 | 1 47 | 18 45 | 0 41 | 22 2 | 0 6 | 21 54 | 1 20 | 16 27 | 15 58 | 20 11 | | | n.a. |
| S 7 | 23 16 | 18 41 | 4 21 | 17 48 | 4 36 | 23 42 | 0 6 | 3 53 | 0 47 | 2 24 | 1 27 | 16 31 | 1 47 | 18 44 | 0 41 | 22 2 | 0 6 | 21 54 | 1 20 | 16 25 | 15 57 | 20 11 | | | n.a. |
| S 8 | 23 11 | 15 54 | 4 53 | 17 49 | 4 40 | 23 47 | 0 9 | 4 7 | 0 48 | 2 26 | 1 27 | 16 29 | 1 47 | 18 43 | 0 41 | 22 1 | 0 6 | 21 54 | 1 20 | 16 23 | 15 56 | 20 11 | | | n.a. |
| M 9 | 23 6 | 12 7 | 5 5 | 17 52 | 4 43 | 23 51 | 0 11 | 4 21 | 0 49 | 2 28 | 1 27 | 16 27 | 1 47 | 18 42 | 0 41 | 22 1 | 0 6 | 21 55 | 1 20 | 16 20 | 15 55 | 20 10 | | | n.a. |
| T 10 | 23 0 | 7 43 | 4 57 | 17 57 | 4 44 | 23 55 | 0 14 | 4 36 | 0 50 | 2 29 | 1 27 | 16 25 | 1 47 | 18 41 | 0 41 | 22 1 | 0 6 | 21 55 | 1 19 | 16 18 | 15 54 | 20 10 | | | n.a. |
| W11 | 22 54 | 3 2 | 4 31 | 18 3 | 4 44 | 23 58 | 0 16 | 4 50 | 0 51 | 2 31 | 1 28 | 16 23 | 1 47 | 18 40 | 0 41 | 22 0 | 0 6 | 21 55 | 1 19 | 16 16 | 15 53 | 20 9 | | | n.a. |
| T 12 | 22 47 | 1s38 | 3 50 | 18 11 | 4 41 | 24 0 | 0 18 | 5 5 | 0 52 | 2 32 | 1 28 | 16 20 | 1 47 | 18 40 | 0 41 | 22 0 | 0 6 | 21 55 | 1 19 | 16 15 | 15 52 | 20 9 | | | n.a. |
| F 13 | 22 40 | 6 5 | 2 59 | 18 20 | 4 37 | 24 2 | 0 21 | 5 20 | 0 53 | 2 34 | 1 28 | 16 18 | 1 47 | 18 39 | 0 41 | 21 59 | 0 6 | 21 55 | 1 19 | 16 14 | 15 51 | 20 9 | | | n.a. |
| S 14 | 22 33 | 10 8 | 2 0 | 18 31 | 4 31 | 24 2 | 0 23 | 5 34 | 0 54 | 2 35 | 1 28 | 16 16 | 1 47 | 18 38 | 0 41 | 21 59 | 0 6 | 21 55 | 1 19 | 16 14 | 15 50 | 20 8 | | | n.a. |
| S 15 | 22 25 | 13 39 | 0 57 | 18 43 | 4 23 | 24 2 | 0 25 | 5 49 | 0 55 | 2 36 | 1 29 | 16 14 | 1 47 | 18 37 | 0 41 | 21 59 | 0 6 | 21 56 | 1 19 | 16 14 | 15 49 | 20 8 | | | n.a. |
| M16 | 22 17 | 16 31 | 0n 7 | 18 56 | 4 13 | 24 2 | 0 28 | 6 4 | 0 56 | 2 38 | 1 29 | 16 12 | 1 46 | 18 36 | 0 41 | 21 58 | 0 6 | 21 56 | 1 19 | 16 14 | 15 48 | 20 7 | | | n.a. |
| T 17 | 22 9 | 18 38 | 1 10 | 19 10 | 4 2 | 24 0 | 0 30 | 6 18 | 0 57 | 2 39 | 1 29 | 16 10 | 1 46 | 18 35 | 0 41 | 21 58 | 0 6 | 21 56 | 1 19 | 16 14 | 15 47 | 20 7 | | | n.a. |
| W18 | 22 0 | 19 56 | 2 9 | 19 24 | 3 50 | 23 58 | 0 32 | 6 33 | 0 58 | 2 40 | 1 29 | 16 7 | 1 46 | 18 34 | 0 41 | 21 58 | 0 6 | 21 56 | 1 19 | 16 13 | 15 46 | 20 6 | | | n.a. |
| T 19 | 21 51 | 20 21 | 3 3 | 19 40 | 3 36 | 23 55 | 0 35 | 6 48 | 0 59 | 2 41 | 1 30 | 16 5 | 1 46 | 18 33 | 0 41 | 21 57 | 0 6 | 21 56 | 1 19 | 16 12 | 15 45 | 20 6 | | | n.a. |
| F 20 | 21 41 | 19 52 | 3 48 | 19 56 | 3 22 | 23 52 | 0 37 | 7 3 | 1 0 | 2 41 | 1 30 | 16 3 | 1 46 | 18 32 | 0 41 | 21 57 | 0 6 | 21 56 | 1 19 | 16 9 | 15 44 | 20 6 | | | n.a. |
| S 21 | 21 31 | 18 30 | 4 24 | 20 12 | 3 6 | 23 47 | 0 39 | 7 18 | 1 1 | 2 42 | 1 30 | 16 1 | 1 46 | 18 31 | 0 41 | 21 57 | 0 6 | 21 57 | 1 19 | 16 6 | 15 43 | 20 5 | | | n.a. |
| S 22 | 21 21 | 16 19 | 4 49 | 20 28 | 2 50 | 23 42 | 0 41 | 7 33 | 1 2 | 2 43 | 1 30 | 15 58 | 1 46 | 18 30 | 0 41 | 21 56 | 0 6 | 21 57 | 1 19 | 16 2 | 15 42 | 20 5 | | | n.a. |
| M23 | 21 10 | 13 24 | 5 0 | 20 44 | 2 33 | 23 36 | 0 43 | 7 48 | 1 3 | 2 44 | 1 31 | 15 56 | 1 46 | 18 29 | 0 41 | 21 56 | 0 6 | 21 57 | 1 19 | 15 58 | 15 41 | 20 4 | | | n.a. |
| T 24 | 20 59 | 9 54 | 4 58 | 21 0 | 2 16 | 23 30 | 0 45 | 8 3 | 1 3 | 2 44 | 1 31 | 15 54 | 1 46 | 18 28 | 0 41 | 21 56 | 0 6 | 21 57 | 1 19 | 15 55 | 15 40 | 20 4 | | | n.a. |
| W25 | 20 47 | 5 55 | 4 42 | 21 16 | 1 59 | 23 23 | 0 47 | 8 17 | 1 4 | 2 45 | 1 31 | 15 51 | 1 46 | 18 27 | 0 41 | 21 55 | 0 6 | 21 57 | 1 19 | 15 51 | 15 39 | 20 3 | | | n.a. |
| T 26 | 20 36 | 1 37 | 4 12 | 21 30 | 1 42 | 23 15 | 0 49 | 8 32 | 1 5 | 2 45 | 1 32 | 15 49 | 1 46 | 18 26 | 0 41 | 21 55 | 0 6 | 21 57 | 1 19 | 15 49 | 15 38 | 20 3 | | | n.a. |
| F 27 | 20 23 | 2n49 | 3 28 | 21 44 | 1 25 | 23 6 | 0 51 | 8 47 | 1 6 | 2 45 | 1 32 | 15 47 | 1 46 | 18 25 | 0 41 | 21 55 | 0 6 | 21 57 | 1 19 | 15 47 | 15 38 | 20 2 | | | n.a. |
| S 28 | 20 11 | 7 12 | 2 33 | 21 57 | 1 8 | 22 57 | 0 53 | 9 2 | 1 7 | 2 46 | 1 32 | 15 44 | 1 46 | 18 24 | 0 41 | 21 54 | 0 6 | 21 58 | 1 19 | 15 46 | 15 37 | 20 2 | | | n.a. |
| S 29 | 19 58 | 11 20 | 1 29 | 22 8 | 0 52 | 22 47 | 0 55 | 9 18 | 1 8 | 2 46 | 1 32 | 15 42 | 1 46 | 18 23 | 0 41 | 21 54 | 0 6 | 21 58 | 1 19 | 15 45 | 15 36 | 20 2 | | | n.a. |
| M30 | 19 45 | 14 58 | 0 18 | 22 18 | 0 36 | 22 36 | 0 57 | 9 33 | 1 8 | 2 46 | 1 33 | 15 40 | 1 46 | 18 21 | 0 41 | 21 54 | 0 6 | 21 58 | 1 19 | 15 45 | 15 35 | 20 1 | | | n.a. |
| T 31 | 19n31 | 17n51 | 0s56 | 22n26 | 0s20 | 22n25 | 0n58 | 9s48 | 1s 9 | 2n46 | 1s33 | 15n37 | 1n46 | 18n20 | 0n41 | 21n53 | 0n 6 | 21n58 | 1s19 | 15s45 | 15s34 | 20s 1 | | | n.a. |

Julian Day Number = 1701880.5, Delta T = 03h05m09s
Ecliptic obliquity = 23°41'58, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°48'08, Lahiri = - 4°41'08 Julian Calendar 1 July 54 BCE == Greg. Calendar 29 June 054 BCE

The year -53 astronomical counting style corresponds to year 054 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 54 BCE
# geocentric

## AUGUST 54 BCE (-53) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 20 25 45 | 4♌44'35 | 7♊25 | 16♋47 | 25♋42 | 22♎48 | 10♈28 | 23♌16 | 10♌57 | 22♋35 | 19♊26 | 12°R28 | 11♏49 | 27♐13 | n.a. | W 1 |
| T 2 | 20 29 42 | 5°42'39 | 22° 3 | 18° 4 | 26°56 | 23°27 | 10°29 | 23°23 | 11° 1 | 22°37 | 19°27 | 12♏24 | 11°45 | 27°19 | n.a. | T 2 |
| F 3 | 20 33 38 | 6°40'45 | 6♋55 | 19°27 | 28°10 | 24° 5 | 10°R29 | 23°30 | 11° 5 | 22°39 | 19°28 | 12°18 | 11°42 | 27°26 | n.a. | F 3 |
| S 4 | 20 37 35 | 7°38'53 | 21°54 | 20°55 | 29°25 | 24°43 | 10°29 | 23°38 | 11° 8 | 22°42 | 19°29 | 12° 8 | 11°39 | 27°33 | n.a. | S 4 |
| S 5 | 20 41 31 | 8°37'03 | 6♌52 | 22°28 | 0♌39 | 25°22 | 10°28 | 23°45 | 11°12 | 22°44 | 19°30 | 11°58 | 11°36 | 27°40 | n.a. | S 5 |
| M 6 | 20 45 28 | 9°35'15 | 21°38 | 24° 4 | 1°54 | 26° 1 | 10°28 | 23°52 | 11°16 | 22°46 | 19°31 | 11°46 | 11°33 | 27°46 | n.a. | M 6 |
| T 7 | 20 49 24 | 10°33'28 | 6♍ 4 | 25°45 | 3° 8 | 26°40 | 10°27 | 23°59 | 11°20 | 22°48 | 19°32 | 11°35 | 11°30 | 27°53 | n.a. | T 7 |
| W 8 | 20 53 21 | 11°31'43 | 20° 5 | 27°29 | 4°23 | 27°19 | 10°26 | 24° 7 | 11°23 | 22°50 | 19°33 | 11°27 | 11°26 | 28° 0 | n.a. | W 8 |
| T 9 | 20 57 17 | 12°30'00 | 3♎39 | 29°15 | 5°37 | 27°58 | 10°25 | 24°14 | 11°27 | 22°52 | 19°34 | 11°20 | 11°23 | 28° 6 | n.a. | T 9 |
| F 10 | 21 1 14 | 13°28'18 | 16°44 | 1♌ 4 | 6°52 | 28°37 | 10°24 | 24°21 | 11°31 | 22°54 | 19°35 | 11°17 | 11°20 | 28°13 | n.a. | F 10 |
| S 11 | 21 5 11 | 14°26'38 | 29°25 | 2°55 | 8° 6 | 29°17 | 10°22 | 24°29 | 11°35 | 22°57 | 19°36 | 11°15 | 11°17 | 28°20 | n.a. | S 11 |
| S 12 | 21 9 7 | 15°25'00 | 11♏45 | 4°46 | 9°21 | 29°57 | 10°21 | 24°36 | 11°38 | 22°59 | 19°37 | 11°15 | 11°14 | 28°26 | n.a. | S 12 |
| M13 | 21 13 4 | 16°23'24 | 23°49 | 6°39 | 10°35 | 0♏36 | 10°19 | 24°43 | 11°42 | 23° 1 | 19°38 | 11°15 | 11°10 | 28°33 | n.a. | M13 |
| T 14 | 21 17 0 | 17°21'49 | 5♐44 | 8°33 | 11°50 | 1°16 | 10°17 | 24°51 | 11°46 | 23° 3 | 19°39 | 11°14 | 11° 7 | 28°40 | n.a. | T 14 |
| W15 | 21 20 57 | 18°20'16 | 17°34 | 10°27 | 13° 5 | 1°56 | 10°14 | 24°58 | 11°50 | 23° 5 | 19°40 | 11°11 | 11° 4 | 28°46 | n.a. | W15 |
| T 16 | 21 24 53 | 19°18'44 | 29°23 | 12°21 | 14°19 | 2°37 | 10°12 | 25° 5 | 11°53 | 23° 7 | 19°41 | 11° 5 | 11° 1 | 28°53 | n.a. | T 16 |
| F 17 | 21 28 50 | 20°17'15 | 11♑17 | 14°15 | 15°34 | 3°17 | 10° 9 | 25°13 | 11°57 | 23° 9 | 19°42 | 10°57 | 10°58 | 29° 0 | n.a. | F 17 |
| S 18 | 21 32 46 | 21°15'47 | 23°18 | 16° 9 | 16°49 | 3°57 | 10° 6 | 25°20 | 12° 1 | 23°11 | 19°43 | 10°46 | 10°55 | 29° 6 | n.a. | S 18 |
| S 19 | 21 36 43 | 22°14'21 | 5♒29 | 18° 3 | 18° 3 | 4°38 | 10° 3 | 25°28 | 12° 5 | 23°13 | 19°44 | 10°34 | 10°51 | 29°13 | n.a. | S 19 |
| M20 | 21 40 39 | 23°12'57 | 17°50 | 19°55 | 19°18 | 5°19 | 10° 0 | 25°35 | 12° 8 | 23°15 | 19°44 | 10°20 | 10°48 | 29°20 | n.a. | M20 |
| T 21 | 21 44 36 | 24°11'35 | 0♓23 | 21°48 | 20°33 | 5°59 | 9°56 | 25°43 | 12°12 | 23°17 | 19°45 | 10° 8 | 10°45 | 29°27 | n.a. | T 21 |
| W22 | 21 48 33 | 25°10'16 | 13° 8 | 23°39 | 21°48 | 6°40 | 9°53 | 25°50 | 12°16 | 23°19 | 19°46 | 9°56 | 10°42 | 29°33 | n.a. | W22 |
| T 23 | 21 52 29 | 26° 8'58 | 26° 3 | 25°30 | 23° 3 | 7°22 | 9°49 | 25°57 | 12°19 | 23°21 | 19°47 | 9°47 | 10°39 | 29°40 | n.a. | T 23 |
| F 24 | 21 56 26 | 27° 7'42 | 9♈10 | 27°20 | 24°17 | 8° 3 | 9°45 | 26° 5 | 12°23 | 23°23 | 19°48 | 9°41 | 10°36 | 29°47 | n.a. | F 24 |
| S 25 | 22 0 22 | 28° 6'29 | 22°27 | 29° 9 | 25°32 | 8°44 | 9°40 | 26°12 | 12°27 | 23°25 | 19°48 | 9°38 | 10°32 | 29°53 | n.a. | S 25 |
| S 26 | 22 4 19 | 29° 5'18 | 5♉56 | 0♍57 | 26°47 | 9°25 | 9°36 | 26°20 | 12°30 | 23°27 | 19°49 | 9°D37 | 10°29 | 29°59 | n.a. | S 26 |
| M27 | 22 8 15 | 0♍ 4'10 | 19°38 | 2°44 | 28° 2 | 10° 7 | 9°32 | 26°27 | 12°34 | 23°28 | 19°50 | 9°37 | 10°26 | 0♑ 7 | n.a. | M27 |
| T 28 | 22 12 12 | 1° 3'04 | 3♊32 | 4°30 | 29°17 | 10°49 | 9°27 | 26°34 | 12°38 | 23°30 | 19°50 | 9°R37 | 10°23 | 0°13 | n.a. | T 28 |
| W29 | 22 16 8 | 2° 2'00 | 17°40 | 6°15 | 0♍32 | 11°30 | 9°22 | 26°42 | 12°41 | 23°32 | 19°51 | 9°36 | 10°20 | 0°20 | n.a. | W29 |
| T 30 | 22 20 5 | 3° 0'59 | 2♋ 1 | 8° 0 | 1°47 | 12°12 | 9°17 | 26°49 | 12°45 | 23°34 | 19°51 | 9°33 | 10°16 | 0°27 | n.a. | T 30 |
| F 31 | 22 24 2 | 4♍ 0'01 | 16♋31 | 9♍43 | 3♍ 2 | 12♏54 | 9♈12 | 26♌57 | 12♌48 | 23♋36 | 19♊52 | 9♏27 | 10♏13 | 0♑33 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | | ☊ | | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | | decl | | decl | | decl | lat |
| W 1 | 19n17 | 19n41 | 2s 8 | 22n32 | 0s 6 | 22n13 | 1n 0 | 10s 3 | 1s10 | 2n46 | 1s33 | 15n35 | 1n46 | 18n19 | 0n41 | 21n53 | 0n 6 | 21n58 | 1s19 | 15s45 | 15s33 | 20s 0 | | | | | n.a. |
| T 2 | 19 3 | 20 15 | 3 13 | 22 36 | 0n 8 | 22 0 | 1 2 | 10 18 | 1 11 | 2 46 | 1 33 | 15 32 | 1 46 | 18 18 | 0 41 | 21 52 | 0 6 | 21 58 | 1 19 | 15 44 | 15 32 | 20 0 | | | | | n.a. |
| F 3 | 18 48 | 19 26 | 4 6 | 22 37 | 0 21 | 21 47 | 1 3 | 10 33 | 1 11 | 2 46 | 1 34 | 15 30 | 1 46 | 18 17 | 0 41 | 21 52 | 0 6 | 21 58 | 1 19 | 15 42 | 15 31 | 19 59 | | | | | n.a. |
| S 4 | 18 33 | 17 15 | 4 42 | 22 36 | 0 34 | 21 33 | 1 5 | 10 48 | 1 12 | 2 45 | 1 34 | 15 28 | 1 46 | 18 16 | 0 41 | 21 52 | 0 6 | 21 58 | 1 18 | 15 39 | 15 30 | 19 59 | | | | | n.a. |
| S 5 | 18 18 | 13 56 | 4 59 | 22 33 | 0 45 | 21 19 | 1 6 | 11 3 | 1 13 | 2 45 | 1 34 | 15 25 | 1 46 | 18 15 | 0 41 | 21 51 | 0 6 | 21 59 | 1 18 | 15 35 | 15 29 | 19 58 | | | | | n.a. |
| M 6 | 18 3 | 9 47 | 4 56 | 22 26 | 0 55 | 21 3 | 1 8 | 11 17 | 1 13 | 2 45 | 1 34 | 15 23 | 1 46 | 18 14 | 0 41 | 21 51 | 0 6 | 21 59 | 1 18 | 15 32 | 15 28 | 19 58 | | | | | n.a. |
| T 7 | 17 47 | 5 9 | 4 34 | 22 17 | 1 5 | 20 47 | 1 9 | 11 32 | 1 14 | 2 44 | 1 35 | 15 20 | 1 46 | 18 13 | 0 41 | 21 51 | 0 6 | 21 59 | 1 18 | 15 28 | 15 27 | 19 57 | | | | | n.a. |
| W 8 | 17 31 | 0 22 | 3 56 | 22 5 | 1 13 | 20 31 | 1 11 | 11 47 | 1 15 | 2 43 | 1 35 | 15 18 | 1 46 | 18 12 | 0 41 | 21 50 | 0 6 | 21 59 | 1 18 | 15 26 | 15 26 | 19 57 | | | | | n.a. |
| T 9 | 17 14 | 4s17 | 3 5 | 21 51 | 1 21 | 20 14 | 1 12 | 12 2 | 1 15 | 2 43 | 1 35 | 15 15 | 1 46 | 18 11 | 0 41 | 21 50 | 0 6 | 21 59 | 1 18 | 15 24 | 15 25 | 19 56 | | | | | n.a. |
| F 10 | 16 58 | 8 35 | 2 6 | 21 34 | 1 28 | 19 56 | 1 13 | 12 17 | 1 16 | 2 42 | 1 35 | 15 13 | 1 46 | 18 10 | 0 41 | 21 50 | 0 6 | 21 59 | 1 18 | 15 23 | 15 24 | 19 56 | | | | | n.a. |
| S 11 | 16 41 | 12 21 | 1 2 | 21 14 | 1 33 | 19 38 | 1 14 | 12 32 | 1 17 | 2 41 | 1 36 | 15 10 | 1 46 | 18 9 | 0 41 | 21 49 | 0 6 | 21 59 | 1 18 | 15 22 | 15 23 | 19 55 | | | | | n.a. |
| S 12 | 16 23 | 15 29 | 0n 3 | 20 52 | 1 38 | 19 19 | 1 15 | 12 47 | 1 17 | 2 40 | 1 36 | 15 8 | 1 46 | 18 8 | 0 41 | 21 49 | 0 6 | 21 59 | 1 18 | 15 22 | 15 22 | 19 55 | | | | | n.a. |
| M13 | 16 6 | 17 52 | 1 6 | 20 27 | 1 42 | 19 0 | 1 16 | 13 1 | 1 18 | 2 39 | 1 36 | 15 6 | 1 46 | 18 7 | 0 41 | 21 49 | 0 6 | 21 59 | 1 18 | 15 22 | 15 21 | 19 54 | | | | | n.a. |
| T 14 | 15 48 | 19 26 | 2 6 | 20 0 | 1 45 | 18 40 | 1 17 | 13 16 | 1 19 | 2 38 | 1 36 | 15 3 | 1 46 | 18 6 | 0 41 | 21 48 | 0 6 | 22 0 | 1 18 | 15 22 | 15 20 | 19 54 | | | | | n.a. |
| W15 | 15 30 | 20 8 | 3 0 | 19 31 | 1 47 | 18 19 | 1 18 | 13 31 | 1 19 | 2 37 | 1 37 | 15 1 | 1 47 | 18 5 | 0 41 | 21 48 | 0 6 | 22 0 | 1 18 | 15 21 | 15 19 | 19 53 | | | | | n.a. |
| T 16 | 15 11 | 19 56 | 3 46 | 19 0 | 1 48 | 17 58 | 1 19 | 13 45 | 1 20 | 2 36 | 1 37 | 14 58 | 1 47 | 18 4 | 0 41 | 21 48 | 0 6 | 22 0 | 1 18 | 15 19 | 15 18 | 19 52 | | | | | n.a. |
| F 17 | 14 53 | 18 52 | 4 22 | 18 28 | 1 49 | 17 37 | 1 20 | 14 0 | 1 20 | 2 35 | 1 37 | 14 56 | 1 47 | 18 3 | 0 41 | 21 47 | 0 6 | 22 0 | 1 18 | 15 16 | 15 17 | 19 52 | | | | | n.a. |
| S 18 | 14 34 | 16 57 | 4 47 | 17 54 | 1 49 | 17 15 | 1 21 | 14 14 | 1 21 | 2 33 | 1 37 | 14 53 | 1 47 | 18 2 | 0 41 | 21 47 | 0 6 | 22 0 | 1 18 | 15 13 | 15 16 | 19 51 | | | | | n.a. |
| S 19 | 14 15 | 14 16 | 4 59 | 17 18 | 1 48 | 16 52 | 1 21 | 14 29 | 1 21 | 2 32 | 1 38 | 14 51 | 1 47 | 18 1 | 0 41 | 21 47 | 0 6 | 22 0 | 1 18 | 15 9 | 15 15 | 19 51 | | | | | n.a. |
| M20 | 13 56 | 10 55 | 4 58 | 16 41 | 1 47 | 16 29 | 1 22 | 14 43 | 1 22 | 2 30 | 1 38 | 14 48 | 1 47 | 18 0 | 0 41 | 21 46 | 0 6 | 22 0 | 1 18 | 15 5 | 15 14 | 19 50 | | | | | n.a. |
| T 21 | 13 36 | 7 3 | 4 42 | 16 3 | 1 45 | 16 6 | 1 23 | 14 57 | 1 22 | 2 29 | 1 38 | 14 46 | 1 47 | 17 58 | 0 41 | 21 46 | 0 6 | 22 0 | 1 18 | 15 1 | 15 13 | 19 50 | | | | | n.a. |
| W22 | 13 16 | 2 49 | 4 12 | 15 24 | 1 43 | 15 42 | 1 23 | 15 11 | 1 23 | 2 27 | 1 38 | 14 43 | 1 47 | 17 57 | 0 41 | 21 46 | 0 6 | 22 0 | 1 18 | 14 57 | 15 12 | 19 49 | | | | | n.a. |
| T 23 | 12 56 | 1n36 | 3 29 | 14 44 | 1 40 | 15 18 | 1 23 | 15 26 | 1 23 | 2 25 | 1 38 | 14 41 | 1 47 | 17 56 | 0 41 | 21 45 | 0 6 | 22 0 | 1 18 | 14 54 | 15 11 | 19 49 | | | | | n.a. |
| F 24 | 12 36 | 6 1 | 2 34 | 14 3 | 1 37 | 14 53 | 1 24 | 15 40 | 1 24 | 2 23 | 1 39 | 14 38 | 1 47 | 17 55 | 0 41 | 21 45 | 0 6 | 22 1 | 1 18 | 14 52 | 15 10 | 19 48 | | | | | n.a. |
| S 25 | 12 16 | 10 13 | 1 30 | 13 21 | 1 33 | 14 28 | 1 24 | 15 54 | 1 24 | 2 22 | 1 39 | 14 36 | 1 47 | 17 54 | 0 41 | 21 45 | 0 6 | 22 1 | 1 18 | 14 51 | 15 9 | 19 47 | | | | | n.a. |
| S 26 | 11 55 | 13 57 | 0 20 | 12 39 | 1 29 | 14 2 | 1 24 | 16 7 | 1 25 | 2 20 | 1 39 | 14 33 | 1 47 | 17 53 | 0 41 | 21 44 | 0 6 | 22 1 | 1 18 | 14 51 | 15 8 | 19 47 | | | | | n.a. |
| M27 | 11 34 | 16 59 | 0s53 | 11 56 | 1 25 | 13 36 | 1 25 | 16 21 | 1 25 | 2 18 | 1 39 | 14 31 | 1 47 | 17 52 | 0 41 | 21 44 | 0 6 | 22 1 | 1 18 | 14 51 | 15 7 | 19 46 | | | | | n.a. |
| T 28 | 11 13 | 19 4 | 2 4 | 11 12 | 1 20 | 13 10 | 1 25 | 16 35 | 1 26 | 2 16 | 1 39 | 14 28 | 1 47 | 17 51 | 0 41 | 21 44 | 0 6 | 22 1 | 1 18 | 14 51 | 15 6 | 19 46 | | | | | n.a. |
| W29 | 10 52 | 20 0 | 3 8 | 10 29 | 1 15 | 12 43 | 1 25 | 16 48 | 1 26 | 2 14 | 1 40 | 14 26 | 1 47 | 17 50 | 0 41 | 21 43 | 0 6 | 22 1 | 1 18 | 14 51 | 15 5 | 19 45 | | | | | n.a. |
| T 30 | 10 30 | 19 40 | 4 1 | 9 44 | 1 10 | 12 16 | 1 25 | 17 2 | 1 26 | 2 11 | 1 40 | 14 23 | 1 47 | 17 49 | 0 41 | 21 43 | 0 6 | 22 1 | 1 18 | 14 50 | 15 4 | 19 45 | | | | | n.a. |
| F 31 | 10n 9 | 18n 2 | 4s40 | 9n 0 | 1n 4 | 11n49 | 1n25 | 17s15 | 1s27 | 2n 9 | 1s40 | 14n21 | 1n47 | 17n48 | 0n41 | 21n43 | 0n 6 | 22n 1 | 1s18 | 14s48 | 15s 3 | 19s44 | | | | | n.a. |

Julian Day Number = 1701911.5, Delta T = 03h05m08s
Ecliptic obliquity = 23°41'58, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°48'04, Lahiri = - 4°41'03 Julian Calendar 1 Aug. 54 BCE == Greg. Calendar 30 July 054 BCE

The year -53 astronomical counting style corresponds to year 054 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 54 BCE
# geocentric

## SEPTEMBER 54 BCE (-53) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 22 27 58 | 4♍59'04 | 1♌ 6 | 11♍25 | 4♍17 | 13♏36 | 9°R 6 | 27♌ 4 | 12♌52 | 23♋38 | 19♊53 | 9°R19 | 10♏10 | 0♉40 | n.a. | S 1 |
| S 2 | 22 31 55 | 5°58'10 | 15°40 | 13° 7 | 5°32 | 14°19 | 9♈ 1 | 27°11 | 12°56 | 23°39 | 19°53 | 9♏10 | 10° 7 | 0°47 | n.a. | S 2 |
| M 3 | 22 35 51 | 6°57'18 | 0♍ 6 | 14°48 | 6°47 | 15° 1 | 8°55 | 27°19 | 12°59 | 23°41 | 19°54 | 9° 0 | 10° 4 | 0°54 | n.a. | M 3 |
| T 4 | 22 39 48 | 7°56'28 | 14°17 | 16°28 | 8° 2 | 15°43 | 8°49 | 27°26 | 13° 3 | 23°43 | 19°54 | 8°50 | 10° 1 | 1° 0 | n.a. | T 4 |
| W 5 | 22 43 44 | 8°55'41 | 28° 8 | 18° 7 | 9°17 | 16°26 | 8°43 | 27°33 | 13° 6 | 23°45 | 19°55 | 8°42 | 9°57 | 1° 7 | n.a. | W 5 |
| T 6 | 22 47 41 | 9°54'55 | 11♎36 | 19°45 | 10°32 | 17° 9 | 8°37 | 27°41 | 13°10 | 23°46 | 19°55 | 8°37 | 9°54 | 1°14 | n.a. | T 6 |
| F 7 | 22 51 37 | 10°54'12 | 24°40 | 21°22 | 11°47 | 17°51 | 8°30 | 27°48 | 13°13 | 23°48 | 19°55 | 8°34 | 9°51 | 1°20 | n.a. | F 7 |
| S 8 | 22 55 34 | 11°53'30 | 7♏21 | 22°59 | 13° 2 | 18°34 | 8°24 | 27°55 | 13°16 | 23°49 | 19°56 | 8°D33 | 9°48 | 1°27 | n.a. | S 8 |
| S 9 | 22 59 30 | 12°52'50 | 19°43 | 24°35 | 14°18 | 19°17 | 8°17 | 28° 3 | 13°20 | 23°51 | 19°56 | 8°33 | 9°45 | 1°34 | n.a. | S 9 |
| M10 | 23 3 27 | 13°52'13 | 1♐49 | 26°10 | 15°33 | 20° 0 | 8°11 | 28°10 | 13°23 | 23°53 | 19°57 | 8°34 | 9°42 | 1°40 | n.a. | M10 |
| T 11 | 23 7 24 | 14°51'37 | 13°45 | 27°44 | 16°48 | 20°43 | 8° 4 | 28°17 | 13°27 | 23°54 | 19°57 | 8°R35 | 9°38 | 1°47 | n.a. | T 11 |
| W12 | 23 11 20 | 15°51'03 | 25°36 | 29°18 | 18° 3 | 21°26 | 7°57 | 28°24 | 13°30 | 23°56 | 19°57 | 8°34 | 9°35 | 1°54 | n.a. | W12 |
| T 13 | 23 15 17 | 16°50'31 | 7♑28 | 0♎50 | 19°18 | 22°10 | 7°50 | 28°32 | 13°33 | 23°57 | 19°57 | 8°32 | 9°32 | 2° 0 | n.a. | T 13 |
| F 14 | 23 19 13 | 17°50'00 | 19°24 | 2°23 | 20°33 | 22°53 | 7°43 | 28°39 | 13°37 | 23°59 | 19°58 | 8°27 | 9°29 | 2° 7 | n.a. | F 14 |
| S 15 | 23 23 10 | 18°49'32 | 1♒29 | 3°54 | 21°48 | 23°37 | 7°35 | 28°46 | 13°40 | 24° 0 | 19°58 | 8°20 | 9°26 | 2°14 | n.a. | S 15 |
| S 16 | 23 27 6 | 19°49'06 | 13°46 | 5°25 | 23° 4 | 24°20 | 7°28 | 28°53 | 13°43 | 24° 2 | 19°58 | 8°12 | 9°22 | 2°21 | n.a. | S 16 |
| M17 | 23 31 3 | 20°48'41 | 26°18 | 6°55 | 24°19 | 25° 4 | 7°20 | 29° 0 | 13°46 | 24° 3 | 19°58 | 8° 4 | 9°19 | 2°27 | n.a. | M17 |
| T 18 | 23 34 59 | 21°48'18 | 9♓ 6 | 8°24 | 25°34 | 25°48 | 7°13 | 29° 7 | 13°49 | 24° 4 | 19°58 | 7°55 | 9°16 | 2°34 | n.a. | T 18 |
| W19 | 23 38 56 | 22°47'58 | 22° 9 | 9°52 | 26°49 | 26°31 | 7° 5 | 29°14 | 13°53 | 24° 6 | 19°59 | 7°48 | 9°13 | 2°41 | n.a. | W19 |
| T 20 | 23 42 53 | 23°47'39 | 5♈27 | 11°20 | 28° 4 | 27°15 | 6°58 | 29°21 | 13°56 | 24° 7 | 19°59 | 7°42 | 9°10 | 2°47 | n.a. | T 20 |
| F 21 | 23 46 49 | 24°47'23 | 18°57 | 12°47 | 29°20 | 27°59 | 6°50 | 29°28 | 13°59 | 24° 8 | 19°59 | 7°38 | 9° 7 | 2°54 | n.a. | F 21 |
| S 22 | 23 50 46 | 25°47'09 | 2♉38 | 14°14 | 0♎35 | 28°43 | 6°42 | 29°35 | 14° 2 | 24°10 | 19°59 | 7°D36 | 9° 3 | 3° 1 | n.a. | S 22 |
| S 23 | 23 54 42 | 26°46'57 | 16°28 | 15°39 | 1°50 | 29°27 | 6°34 | 29°42 | 14° 5 | 24°11 | 19°59 | 7°37 | 9° 0 | 3° 7 | n.a. | S 23 |
| M24 | 23 58 39 | 27°46'48 | 0♊25 | 17° 4 | 3° 5 | 0♐12 | 6°26 | 29°49 | 14° 8 | 24°12 | 19°R59 | 7°38 | 8°57 | 3°14 | n.a. | M24 |
| T 25 | 0 2 35 | 28°46'41 | 14°28 | 18°28 | 4°20 | 0°56 | 6°18 | 29°56 | 14°11 | 24°13 | 19°59 | 7°39 | 8°54 | 3°21 | n.a. | T 25 |
| W26 | 0 6 32 | 29°46'36 | 28°35 | 19°51 | 5°36 | 1°40 | 6°10 | 0♍ 2 | 14°14 | 24°14 | 19°59 | 7°R40 | 8°51 | 3°27 | n.a. | W26 |
| T 27 | 0 10 28 | 0♎46'34 | 12♋46 | 21°13 | 6°51 | 2°25 | 6° 2 | 0° 9 | 14°17 | 24°16 | 19°59 | 7°39 | 8°47 | 3°34 | n.a. | T 27 |
| F 28 | 0 14 25 | 1°46'34 | 26°58 | 22°34 | 8° 6 | 3° 9 | 5°54 | 0°16 | 14°19 | 24°17 | 19°59 | 7°37 | 8°44 | 3°41 | n.a. | F 28 |
| S 29 | 0 18 22 | 2°46'36 | 11♌ 8 | 23°55 | 9°21 | 3°54 | 5°46 | 0°23 | 14°22 | 24°18 | 19°58 | 7°33 | 8°41 | 3°48 | n.a. | S 29 |
| S 30 | 0 22 18 | 3♎46'40 | 25♌14 | 25♎14 | 10♎37 | 4♐38 | 5♈37 | 0♍29 | 14♌25 | 24♋19 | 19♊58 | 7♏28 | 8♏38 | 3♉54 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 9n47 | 15n15 | 5s 0 | 8n16 | 0n59 | 11n21 | 1n24 | 17s29 | 1s27 | 2n 7 | 1s40 | 14n18 | 1n47 | 17n47 | 0n41 | 21n43 | 0n 6 | 22n 1 | 1s18 | 14s45 | 15s 2 | 19s43 | | n.a. |
| S 2 | 9 25 | 11 31 | 5 1 | 7 31 | 0 53 | 10 53 | 1 24 | 17 42 | 1 27 | 2 4 | 1 40 | 14 16 | 1 48 | 17 46 | 0 41 | 21 42 | 0 6 | 22 1 | 1 18 | 14 42 | 15 1 | 19 43 | | n.a. |
| M 3 | 9 3 | 7 8 | 4 43 | 6 46 | 0 47 | 10 25 | 1 24 | 17 55 | 1 28 | 2 2 | 1 41 | 14 13 | 1 48 | 17 45 | 0 41 | 21 42 | 0 6 | 22 1 | 1 17 | 14 39 | 15 0 | 19 42 | | n.a. |
| T 4 | 8 41 | 2 26 | 4 8 | 6 1 | 0 41 | 9 56 | 1 24 | 18 8 | 1 28 | 2 0 | 1 41 | 14 11 | 1 48 | 17 44 | 0 41 | 21 42 | 0 6 | 22 1 | 1 17 | 14 36 | 14 59 | 19 42 | | n.a. |
| W 5 | 8 19 | 2s17 | 3 18 | 5 16 | 0 34 | 9 27 | 1 23 | 18 21 | 1 28 | 1 57 | 1 41 | 14 8 | 1 48 | 17 43 | 0 41 | 21 41 | 0 6 | 22 1 | 1 17 | 14 33 | 14 58 | 19 41 | | n.a. |
| T 6 | 7 56 | 6 46 | 2 19 | 4 31 | 0 28 | 8 58 | 1 23 | 18 33 | 1 29 | 1 54 | 1 41 | 14 6 | 1 48 | 17 42 | 0 41 | 21 41 | 0 6 | 22 2 | 1 17 | 14 32 | 14 57 | 19 40 | | n.a. |
| F 7 | 7 33 | 10 48 | 1 14 | 3 47 | 0 21 | 8 29 | 1 22 | 18 46 | 1 29 | 1 52 | 1 41 | 14 3 | 1 48 | 17 41 | 0 41 | 21 41 | 0 6 | 22 2 | 1 17 | 14 31 | 14 56 | 19 40 | | n.a. |
| S 8 | 7 11 | 14 13 | 0 6 | 3 2 | 0 14 | 7 59 | 1 21 | 18 58 | 1 29 | 1 49 | 1 41 | 14 1 | 1 48 | 17 40 | 0 41 | 21 41 | 0 6 | 22 2 | 1 17 | 14 30 | 14 55 | 19 39 | | n.a. |
| S 9 | 6 48 | 16 54 | 1n 0 | 2 17 | 0 7 | 7 29 | 1 21 | 19 10 | 1 30 | 1 46 | 1 41 | 13 58 | 1 48 | 17 39 | 0 41 | 21 40 | 0 6 | 22 2 | 1 17 | 14 30 | 14 53 | 19 39 | | n.a. |
| M10 | 6 25 | 18 46 | 2 2 | 1 33 | 0 1 | 6 59 | 1 20 | 19 23 | 1 30 | 1 44 | 1 41 | 13 56 | 1 48 | 17 38 | 0 41 | 21 40 | 0 6 | 22 2 | 1 17 | 14 31 | 14 52 | 19 38 | | n.a. |
| T 11 | 6 2 | 19 46 | 2 58 | 0 49 | 0s 6 | 6 29 | 1 19 | 19 34 | 1 30 | 1 41 | 1 42 | 13 53 | 1 48 | 17 37 | 0 41 | 21 40 | 0 6 | 22 2 | 1 17 | 14 31 | 14 51 | 19 37 | | n.a. |
| W12 | 5 38 | 19 52 | 3 45 | 0 5 | 0 13 | 5 59 | 1 18 | 19 46 | 1 30 | 1 38 | 1 42 | 13 51 | 1 49 | 17 36 | 0 41 | 21 40 | 0 6 | 22 2 | 1 17 | 14 31 | 14 50 | 19 37 | | n.a. |
| T 13 | 5 15 | 19 6 | 4 24 | 0s39 | 0 20 | 5 28 | 1 18 | 19 58 | 1 31 | 1 35 | 1 42 | 13 49 | 1 49 | 17 36 | 0 41 | 21 39 | 0 6 | 22 2 | 1 17 | 14 30 | 14 49 | 19 36 | | n.a. |
| F 14 | 4 52 | 17 29 | 4 51 | 1 22 | 0 27 | 4 57 | 1 17 | 20 9 | 1 31 | 1 32 | 1 42 | 13 46 | 1 49 | 17 35 | 0 41 | 21 39 | 0 6 | 22 2 | 1 17 | 14 28 | 14 48 | 19 35 | | n.a. |
| S 15 | 4 28 | 15 5 | 5 5 | 2 5 | 0 34 | 4 26 | 1 16 | 20 21 | 1 31 | 1 29 | 1 42 | 13 44 | 1 49 | 17 34 | 0 41 | 21 39 | 0 6 | 22 2 | 1 17 | 14 26 | 14 47 | 19 35 | | n.a. |
| S 16 | 4 4 | 11 59 | 5 6 | 2 48 | 0 41 | 3 55 | 1 14 | 20 32 | 1 31 | 1 26 | 1 42 | 13 41 | 1 49 | 17 33 | 0 41 | 21 39 | 0 6 | 22 2 | 1 17 | 14 24 | 14 46 | 19 34 | | n.a. |
| M17 | 3 41 | 8 18 | 4 52 | 3 30 | 0 48 | 3 24 | 1 13 | 20 43 | 1 31 | 1 23 | 1 42 | 13 39 | 1 49 | 17 32 | 0 41 | 21 38 | 0 6 | 22 2 | 1 17 | 14 21 | 14 45 | 19 33 | | n.a. |
| T 18 | 3 17 | 4 11 | 4 23 | 4 12 | 0 55 | 2 53 | 1 12 | 20 54 | 1 32 | 1 20 | 1 42 | 13 36 | 1 49 | 17 31 | 0 41 | 21 38 | 0 6 | 22 2 | 1 17 | 14 18 | 14 44 | 19 33 | | n.a. |
| W19 | 2 53 | 0n14 | 3 41 | 4 54 | 1 2 | 2 22 | 1 11 | 21 5 | 1 32 | 1 17 | 1 42 | 13 34 | 1 49 | 17 30 | 0 41 | 21 38 | 0 6 | 22 2 | 1 17 | 14 16 | 14 43 | 19 32 | | n.a. |
| T 20 | 2 29 | 4 42 | 2 45 | 5 35 | 1 9 | 1 50 | 1 10 | 21 15 | 1 32 | 1 14 | 1 42 | 13 32 | 1 49 | 17 29 | 0 41 | 21 38 | 0 7 | 22 2 | 1 17 | 14 14 | 14 42 | 19 31 | | n.a. |
| F 21 | 2 6 | 9 2 | 1 39 | 6 16 | 1 16 | 1 19 | 1 8 | 21 25 | 1 32 | 1 11 | 1 42 | 13 29 | 1 50 | 17 28 | 0 41 | 21 37 | 0 7 | 22 2 | 1 17 | 14 12 | 14 41 | 19 31 | | n.a. |
| S 22 | 1 42 | 12 56 | 0 27 | 6 56 | 1 22 | 0 47 | 1 7 | 21 35 | 1 32 | 1 7 | 1 42 | 13 27 | 1 50 | 17 27 | 0 41 | 21 37 | 0 7 | 22 2 | 1 17 | 14 12 | 14 40 | 19 30 | | n.a. |
| S 23 | 1 18 | 16 11 | 0s48 | 7 35 | 1 29 | 0 16 | 1 5 | 21 45 | 1 32 | 1 4 | 1 42 | 13 25 | 1 50 | 17 27 | 0 41 | 21 37 | 0 7 | 22 2 | 1 17 | 14 12 | 14 39 | 19 29 | | n.a. |
| M24 | 0 54 | 18 29 | 2 1 | 8 14 | 1 35 | 0s16 | 1 4 | 21 55 | 1 33 | 1 1 | 1 42 | 13 22 | 1 50 | 17 26 | 0 41 | 21 37 | 0 7 | 22 2 | 1 17 | 14 12 | 14 38 | 19 29 | | n.a. |
| T 25 | 0 29 | 19 41 | 3 7 | 8 53 | 1 42 | 0 48 | 1 2 | 22 5 | 1 33 | 0 58 | 1 42 | 13 20 | 1 50 | 17 25 | 0 42 | 21 37 | 0 7 | 22 2 | 1 17 | 14 13 | 14 37 | 19 28 | | n.a. |
| W26 | 0 5 | 19 39 | 4 2 | 9 30 | 1 48 | 1 19 | 1 1 | 22 14 | 1 33 | 0 55 | 1 42 | 13 18 | 1 50 | 17 24 | 0 42 | 21 36 | 0 7 | 22 2 | 1 17 | 14 13 | 14 36 | 19 27 | | n.a. |
| T 27 | 0s19 | 18 23 | 4 43 | 10 7 | 1 54 | 1 51 | 0 59 | 22 23 | 1 33 | 0 51 | 1 42 | 13 15 | 1 50 | 17 23 | 0 42 | 21 36 | 0 7 | 22 2 | 1 17 | 14 13 | 14 35 | 19 27 | | n.a. |
| F 28 | 0 43 | 15 59 | 5 6 | 10 44 | 2 0 | 2 22 | 0 57 | 22 32 | 1 33 | 0 48 | 1 42 | 13 13 | 1 51 | 17 22 | 0 42 | 21 36 | 0 7 | 22 2 | 1 17 | 14 12 | 14 34 | 19 26 | | n.a. |
| S 29 | 1 7 | 12 38 | 5 11 | 11 19 | 2 5 | 2 54 | 0 55 | 22 41 | 1 33 | 0 45 | 1 42 | 13 11 | 1 51 | 17 22 | 0 42 | 21 36 | 0 7 | 22 2 | 1 17 | 14 11 | 14 33 | 19 25 | | n.a. |
| S 30 | 1s31 | 8n35 | 4s57 | 11s53 | 2s11 | 3s26 | 0n54 | 22s49 | 1s33 | 0n42 | 1s42 | 13n 9 | 1n51 | 17n21 | 0n42 | 21n36 | 0n 7 | 22n 2 | 1s17 | 14s 9 | 14s32 | 19s25 | | n.a. |

Julian Day Number = 1701942.5, Delta T = 03h05m07s
Ecliptic obliquity = 23°41'59, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°48'00, Lahiri = - 4°40'59 Julian Calendar 1 Sept. 54 BCE == Greg. Calendar 30 Aug. 054 BCE


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# ASTRODIENST EPHEMERIS for the year 54 BCE
# geocentric

## OCTOBER 54 BCE (-53) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 0 26 15 | 4♎46'47 | 9♍12 | 26♎32 | 11♎52 | 5♐23 | 5°R29 | 0♍36 | 14♌28 | 24♋20 | 19°R58 | 7°R23 | 8♏35 | 4♑ 1 | n.a. | M 1 |
| T 2 | 0 30 11 | 5°46'55 | 22°58 | 27°48 | 13° 7 | 6° 8 | 5♈21 | 0°42 | 14°30 | 24°21 | 19♊58 | 7♏18 | 8°32 | 4° 8 | n.a. | T 2 |
| W 3 | 0 34 8 | 6°47'06 | 6♎28 | 29° 3 | 14°23 | 6°53 | 5°13 | 0°49 | 14°33 | 24°22 | 19°58 | 7°14 | 8°28 | 4°14 | n.a. | W 3 |
| T 4 | 0 38 4 | 7°47'18 | 19°41 | 0♏17 | 15°38 | 7°37 | 5° 5 | 0°55 | 14°36 | 24°23 | 19°57 | 7°11 | 8°25 | 4°21 | n.a. | T 4 |
| F 5 | 0 42 1 | 8°47'33 | 2♏35 | 1°29 | 16°53 | 8°22 | 4°57 | 1° 2 | 14°38 | 24°24 | 19°57 | 7°D10 | 8°22 | 4°28 | n.a. | F 5 |
| S 6 | 0 45 57 | 9°47'49 | 15°11 | 2°39 | 18° 8 | 9° 7 | 4°49 | 1° 8 | 14°41 | 24°24 | 19°57 | 7°10 | 8°19 | 4°34 | n.a. | S 6 |
| S 7 | 0 49 54 | 10°48'07 | 27°31 | 3°46 | 19°24 | 9°53 | 4°40 | 1°14 | 14°43 | 24°25 | 19°57 | 7°11 | 8°16 | 4°41 | n.a. | S 7 |
| M 8 | 0 53 50 | 11°48'26 | 9♐37 | 4°52 | 20°39 | 10°38 | 4°32 | 1°21 | 14°46 | 24°26 | 19°56 | 7°13 | 8°13 | 4°48 | n.a. | M 8 |
| T 9 | 0 57 47 | 12°48'48 | 21°34 | 5°55 | 21°54 | 11°23 | 4°24 | 1°27 | 14°48 | 24°27 | 19°56 | 7°15 | 8° 9 | 4°55 | n.a. | T 9 |
| W10 | 1 1 44 | 13°49'10 | 3♑25 | 6°54 | 23° 9 | 12° 8 | 4°16 | 1°33 | 14°51 | 24°27 | 19°56 | 7°16 | 8° 6 | 5° 1 | n.a. | W10 |
| T 11 | 1 5 40 | 14°49'35 | 15°17 | 7°51 | 24°25 | 12°54 | 4° 9 | 1°39 | 14°53 | 24°28 | 19°55 | 7°R16 | 8° 3 | 5° 8 | n.a. | T 11 |
| F 12 | 1 9 37 | 15°50'00 | 27°13 | 8°43 | 25°40 | 13°39 | 4° 1 | 1°45 | 14°55 | 24°29 | 19°55 | 7°16 | 8° 0 | 5°15 | n.a. | F 12 |
| S 13 | 1 13 33 | 16°50'28 | 9♒18 | 9°32 | 26°55 | 14°24 | 3°53 | 1°51 | 14°57 | 24°29 | 19°54 | 7°14 | 7°57 | 5°21 | n.a. | S 13 |
| S 14 | 1 17 30 | 17°50'56 | 21°38 | 10°16 | 28°10 | 15°10 | 3°45 | 1°57 | 15° 0 | 24°30 | 19°54 | 7°12 | 7°53 | 5°28 | n.a. | S 14 |
| M15 | 1 21 26 | 18°51'26 | 4♓14 | 10°54 | 29°26 | 15°55 | 3°38 | 2° 3 | 15° 2 | 24°31 | 19°53 | 7° 9 | 7°50 | 5°35 | n.a. | M15 |
| T 16 | 1 25 23 | 19°51'58 | 17°10 | 11°27 | 0♏41 | 16°41 | 3°30 | 2° 9 | 15° 4 | 24°31 | 19°53 | 7° 6 | 7°47 | 5°41 | n.a. | T 16 |
| W17 | 1 29 19 | 20°52'31 | 0♈26 | 11°53 | 1°56 | 17°26 | 3°23 | 2°14 | 15° 6 | 24°32 | 19°52 | 7° 4 | 7°44 | 5°48 | n.a. | W17 |
| T 18 | 1 33 16 | 21°53'05 | 14° 3 | 12°11 | 3°11 | 18°12 | 3°15 | 2°20 | 15° 8 | 24°32 | 19°52 | 7° 2 | 7°41 | 5°55 | n.a. | T 18 |
| F 19 | 1 37 13 | 22°53'42 | 27°57 | 12°22 | 4°27 | 18°58 | 3° 8 | 2°26 | 15°10 | 24°32 | 19°51 | 7° 1 | 7°38 | 6° 2 | n.a. | F 19 |
| S 20 | 1 41 9 | 23°54'19 | 12♉ 5 | 12°R24 | 5°42 | 19°44 | 3° 1 | 2°31 | 15°12 | 24°33 | 19°50 | 7°D 1 | 7°34 | 6° 8 | n.a. | S 20 |
| S 21 | 1 45 6 | 24°54'59 | 26°24 | 12°16 | 6°57 | 20°29 | 2°54 | 2°37 | 15°14 | 24°33 | 19°50 | 7° 2 | 7°31 | 6°15 | n.a. | S 21 |
| M22 | 1 49 2 | 25°55'40 | 10♊48 | 11°58 | 8°12 | 21°15 | 2°47 | 2°42 | 15°16 | 24°33 | 19°49 | 7° 3 | 7°28 | 6°22 | n.a. | M22 |
| T 23 | 1 52 59 | 26°56'23 | 25°12 | 11°30 | 9°28 | 22° 1 | 2°40 | 2°47 | 15°17 | 24°34 | 19°48 | 7° 4 | 7°25 | 6°28 | n.a. | T 23 |
| W24 | 1 56 55 | 27°57'07 | 9♋33 | 10°51 | 10°43 | 22°47 | 2°34 | 2°53 | 15°19 | 24°34 | 19°48 | 7° 4 | 7°22 | 6°35 | n.a. | W24 |
| T 25 | 2 0 52 | 28°57'54 | 23°48 | 10° 2 | 11°58 | 23°33 | 2°27 | 2°58 | 15°21 | 24°34 | 19°47 | 7°R 5 | 7°18 | 6°42 | n.a. | T 25 |
| F 26 | 2 4 48 | 29°58'42 | 7♌53 | 9° 3 | 13°13 | 24°19 | 2°21 | 3° 3 | 15°22 | 24°34 | 19°46 | 7° 5 | 7°15 | 6°49 | n.a. | F 26 |
| S 27 | 2 8 45 | 0♏59'31 | 21°48 | 7°55 | 14°28 | 25° 5 | 2°14 | 3° 8 | 15°24 | 24°34 | 19°46 | 7° 4 | 7°12 | 6°55 | n.a. | S 27 |
| S 28 | 2 12 42 | 2° 0'23 | 5♍31 | 6°41 | 15°44 | 25°51 | 2° 8 | 3°13 | 15°25 | 24°35 | 19°45 | 7° 4 | 7° 9 | 7° 2 | n.a. | S 28 |
| M29 | 2 16 38 | 3° 1'15 | 19° 2 | 5°21 | 16°59 | 26°37 | 2° 2 | 3°18 | 15°27 | 24°35 | 19°44 | 7° 3 | 7° 6 | 7° 9 | n.a. | M29 |
| T 30 | 2 20 35 | 4° 2'10 | 2♎20 | 3°59 | 18°14 | 27°23 | 1°57 | 3°23 | 15°28 | 24°35 | 19°43 | 7° 3 | 7° 3 | 7°15 | n.a. | T 30 |
| W31 | 2 24 31 | 5♏ 3'05 | 15♎24 | 2♏37 | 19♏29 | 28♐ 9 | 1♈51 | 3♍28 | 15♌30 | 24°R35 | 19♊42 | 7♏ 3 | 6♏59 | 7♑22 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 1s55 | 4n 7 | 4s25 | 12s27 | 2s16 | 3s57 | 0n52 | 22s57 | 1s33 | 0n38 | 1s42 | 13n 7 | 1n51 | 17n20 | 0n42 | 21n36 | 0n 7 | 22n 3 | 1s17 | 14s 7 | 14s31 | 19s24 | | n.a. |
| T 2 | 2 19 | 0s31 | 3 38 | 13 0 | 2 21 | 4 28 | 0 50 | 23 6 | 1 33 | 0 35 | 1 42 | 13 4 | 1 51 | 17 19 | 0 42 | 21 35 | 0 7 | 22 3 | 1 17 | 14 6 | 14 30 | 19 23 | | n.a. |
| W 3 | 2 43 | 5 3 | 2 40 | 13 31 | 2 26 | 5 0 | 0 48 | 23 13 | 1 33 | 0 32 | 1 42 | 13 2 | 1 51 | 17 19 | 0 42 | 21 35 | 0 7 | 22 3 | 1 17 | 14 4 | 14 29 | 19 23 | | n.a. |
| T 4 | 3 7 | 9 14 | 1 34 | 14 2 | 2 30 | 5 31 | 0 46 | 23 21 | 1 33 | 0 29 | 1 42 | 13 0 | 1 51 | 17 18 | 0 42 | 21 35 | 0 7 | 22 3 | 1 17 | 14 4 | 14 28 | 19 22 | | n.a. |
| F 5 | 3 31 | 12 54 | 0 25 | 14 31 | 2 34 | 6 2 | 0 44 | 23 28 | 1 33 | 0 26 | 1 42 | 12 58 | 1 52 | 17 17 | 0 42 | 21 35 | 0 7 | 22 3 | 1 17 | 14 3 | 14 27 | 19 21 | | n.a. |
| S 6 | 3 55 | 15 52 | 0n44 | 14 59 | 2 37 | 6 33 | 0 42 | 23 35 | 1 33 | 0 23 | 1 42 | 12 56 | 1 52 | 17 16 | 0 42 | 21 35 | 0 7 | 22 3 | 1 16 | 14 3 | 14 26 | 19 20 | | n.a. |
| S 7 | 4 19 | 18 2 | 1 50 | 15 25 | 2 40 | 7 3 | 0 40 | 23 42 | 1 33 | 0 19 | 1 42 | 12 54 | 1 52 | 17 16 | 0 42 | 21 35 | 0 7 | 22 3 | 1 16 | 14 4 | 14 25 | 19 20 | | n.a. |
| M 8 | 4 43 | 19 21 | 2 49 | 15 50 | 2 43 | 7 34 | 0 38 | 23 49 | 1 33 | 0 16 | 1 42 | 12 51 | 1 52 | 17 15 | 0 42 | 21 35 | 0 7 | 22 3 | 1 16 | 14 4 | 14 24 | 19 19 | | n.a. |
| T 9 | 5 7 | 19 46 | 3 41 | 16 14 | 2 45 | 8 5 | 0 35 | 23 55 | 1 33 | 0 13 | 1 42 | 12 49 | 1 52 | 17 14 | 0 42 | 21 35 | 0 7 | 22 3 | 1 16 | 14 5 | 14 23 | 19 18 | | n.a. |
| W10 | 5 31 | 19 17 | 4 22 | 16 35 | 2 47 | 8 35 | 0 33 | 24 2 | 1 33 | 0 10 | 1 41 | 12 47 | 1 52 | 17 14 | 0 42 | 21 34 | 0 7 | 22 3 | 1 16 | 14 5 | 14 22 | 19 17 | | n.a. |
| T 11 | 5 54 | 17 58 | 4 52 | 16 55 | 2 48 | 9 5 | 0 31 | 24 8 | 1 33 | 0 7 | 1 41 | 12 45 | 1 53 | 17 13 | 0 42 | 21 34 | 0 7 | 22 3 | 1 16 | 14 5 | 14 21 | 19 17 | | n.a. |
| F 12 | 6 18 | 15 52 | 5 10 | 17 12 | 2 48 | 9 35 | 0 29 | 24 13 | 1 33 | 0 4 | 1 41 | 12 43 | 1 53 | 17 12 | 0 42 | 21 34 | 0 7 | 22 3 | 1 16 | 14 5 | 14 20 | 19 16 | | n.a. |
| S 13 | 6 41 | 13 3 | 5 15 | 17 28 | 2 47 | 10 4 | 0 27 | 24 19 | 1 33 | 0 1 | 1 41 | 12 41 | 1 53 | 17 12 | 0 42 | 21 34 | 0 7 | 22 3 | 1 16 | 14 5 | 14 19 | 19 15 | | n.a. |
| S 14 | 7 5 | 9 38 | 5 5 | 17 40 | 2 46 | 10 34 | 0 24 | 24 24 | 1 33 | 0s 2 | 1 41 | 12 39 | 1 53 | 17 11 | 0 42 | 21 34 | 0 7 | 22 3 | 1 16 | 14 4 | 14 17 | 19 15 | | n.a. |
| M15 | 7 28 | 5 42 | 4 41 | 17 50 | 2 43 | 11 3 | 0 22 | 24 29 | 1 33 | 0 5 | 1 41 | 12 37 | 1 53 | 17 10 | 0 42 | 21 34 | 0 7 | 22 3 | 1 16 | 14 3 | 14 16 | 19 14 | | n.a. |
| T 16 | 7 51 | 1 25 | 4 2 | 17 57 | 2 40 | 11 32 | 0 20 | 24 33 | 1 32 | 0 8 | 1 41 | 12 35 | 1 54 | 17 10 | 0 42 | 21 34 | 0 7 | 22 3 | 1 16 | 14 2 | 14 15 | 19 13 | | n.a. |
| W17 | 8 14 | 3n 3 | 3 9 | 18 1 | 2 35 | 12 0 | 0 17 | 24 38 | 1 32 | 0 11 | 1 40 | 12 33 | 1 54 | 17 9 | 0 42 | 21 34 | 0 7 | 22 3 | 1 16 | 14 1 | 14 14 | 19 12 | | n.a. |
| T 18 | 8 37 | 7 30 | 2 4 | 18 1 | 2 29 | 12 29 | 0 15 | 24 42 | 1 32 | 0 13 | 1 40 | 12 32 | 1 54 | 17 9 | 0 42 | 21 34 | 0 7 | 22 3 | 1 16 | 14 1 | 14 13 | 19 12 | | n.a. |
| F 19 | 9 0 | 11 38 | 0 50 | 17 58 | 2 22 | 12 57 | 0 12 | 24 46 | 1 32 | 0 16 | 1 40 | 12 30 | 1 54 | 17 8 | 0 42 | 21 34 | 0 7 | 22 3 | 1 16 | 14 0 | 14 12 | 19 11 | | n.a. |
| S 20 | 9 22 | 15 11 | 0s28 | 17 50 | 2 13 | 13 24 | 0 10 | 24 49 | 1 32 | 0 19 | 1 40 | 12 28 | 1 54 | 17 8 | 0 42 | 21 34 | 0 7 | 22 3 | 1 16 | 14 0 | 14 11 | 19 10 | | n.a. |
| S 21 | 9 45 | 17 51 | 1 45 | 17 38 | 2 3 | 13 52 | 0 8 | 24 53 | 1 32 | 0 21 | 1 40 | 12 26 | 1 55 | 17 7 | 0 42 | 21 34 | 0 7 | 22 3 | 1 16 | 14 1 | 14 10 | 19 9 | | n.a. |
| M22 | 10 7 | 19 24 | 2 56 | 17 21 | 1 51 | 14 19 | 0 5 | 24 56 | 1 32 | 0 24 | 1 39 | 12 24 | 1 55 | 17 7 | 0 42 | 21 34 | 0 7 | 22 3 | 1 16 | 14 1 | 14 9 | 19 8 | | n.a. |
| T 23 | 10 30 | 19 40 | 3 57 | 16 59 | 1 38 | 14 45 | 0 3 | 24 59 | 1 31 | 0 27 | 1 39 | 12 23 | 1 55 | 17 6 | 0 43 | 21 33 | 0 7 | 22 2 | 1 16 | 14 1 | 14 8 | 19 8 | | n.a. |
| W24 | 10 52 | 18 40 | 4 41 | 16 33 | 1 22 | 15 12 | 0 0 | 25 1 | 1 31 | 0 29 | 1 39 | 12 21 | 1 55 | 17 6 | 0 43 | 21 33 | 0 7 | 22 2 | 1 16 | 14 1 | 14 7 | 19 7 | | n.a. |
| T 25 | 11 13 | 16 31 | 5 9 | 16 1 | 1 6 | 15 38 | 0s 2 | 25 3 | 1 31 | 0 31 | 1 39 | 12 19 | 1 55 | 17 5 | 0 43 | 21 33 | 0 7 | 22 2 | 1 16 | 14 1 | 14 6 | 19 6 | | n.a. |
| F 26 | 11 35 | 13 23 | 5 17 | 15 25 | 0 47 | 16 3 | 0 5 | 25 5 | 1 31 | 0 34 | 1 39 | 12 17 | 1 56 | 17 5 | 0 43 | 21 33 | 0 7 | 22 2 | 1 16 | 14 1 | 14 5 | 19 5 | | n.a. |
| S 27 | 11 57 | 9 33 | 5 7 | 14 44 | 0 28 | 16 28 | 0 7 | 25 7 | 1 31 | 0 36 | 1 38 | 12 16 | 1 56 | 17 4 | 0 43 | 21 33 | 0 7 | 22 2 | 1 16 | 14 1 | 14 4 | 19 5 | | n.a. |
| S 28 | 12 18 | 5 16 | 4 39 | 14 1 | 0 8 | 16 53 | 0 10 | 25 8 | 1 30 | 0 38 | 1 38 | 12 14 | 1 56 | 17 4 | 0 43 | 21 33 | 0 7 | 22 2 | 1 16 | 14 1 | 14 3 | 19 4 | | n.a. |
| M29 | 12 39 | 0 46 | 3 56 | 13 15 | 0n13 | 17 17 | 0 12 | 25 9 | 1 30 | 0 40 | 1 38 | 12 13 | 1 56 | 17 4 | 0 43 | 21 33 | 0 7 | 22 2 | 1 16 | 14 1 | 14 2 | 19 3 | | n.a. |
| T 30 | 13 0 | 3s42 | 3 1 | 12 27 | 0 34 | 17 41 | 0 14 | 25 10 | 1 30 | 0 43 | 1 38 | 12 11 | 1 57 | 17 3 | 0 43 | 21 33 | 0 7 | 22 2 | 1 16 | 14 1 | 14 1 | 19 2 | | n.a. |
| W31 | 13s21 | 7s56 | 1s57 | 11s40 | 0n54 | 18s 4 | 0s17 | 25s11 | 1s30 | 0s45 | 1s37 | 12n 9 | 1n57 | 17n 3 | 0n43 | 21n33 | 0n 7 | 22n 2 | 1s16 | 14s 1 | 14s 0 | 19s 1 | | n.a. |

Julian Day Number = 1701972.5, Delta T = 03h05m06s
Ecliptic obliquity = 23°41'59, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°47'55, Lahiri = - 4°40'55 Julian Calendar 1 Oct. 54 BCE == Greg. Calendar 29 Sept. 054 BCE

The year -53 astronomical counting style corresponds to year 054 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 54 BCE
# geocentric

## NOVEMBER 54 BCE (-53) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 2 28 28 | 6♏ 4'02 | 28♎15 | 1°R18 | 20♏44 | 28♐55 | 1°R45 | 3♍32 | 15♌31 | 24°R35 | 19°R41 | 7°R 3 | 6♏56 | 7♑29 | n.a. | T 1 |
| F 2 | 2 32 24 | 7° 5'01 | 10♏53 | 0♏ 5 | 22° 0 | 29°42 | 1♈40 | 3°37 | 15°32 | 24♋35 | 19♊41 | 7♏ 3 | 6°53 | 7°35 | n.a. | F 2 |
| S 3 | 2 36 21 | 8° 6'00 | 23°18 | 29♎ 0 | 23°15 | 0♑28 | 1°35 | 3°41 | 15°33 | 24°34 | 19°40 | 7° 2 | 6°50 | 7°42 | n.a. | S 3 |
| S 4 | 2 40 17 | 9° 7'00 | 5♐31 | 28° 5 | 24°30 | 1°14 | 1°30 | 3°46 | 15°35 | 24°34 | 19°39 | 7° 2 | 6°47 | 7°49 | n.a. | S 4 |
| M 5 | 2 44 14 | 10° 8'02 | 17°34 | 27°20 | 25°45 | 2° 0 | 1°25 | 3°50 | 15°36 | 24°34 | 19°38 | 7° 2 | 6°44 | 7°56 | n.a. | M 5 |
| T 6 | 2 48 11 | 11° 9'04 | 29°30 | 26°46 | 27° 0 | 2°47 | 1°21 | 3°54 | 15°37 | 24°34 | 19°37 | 7° 2 | 6°40 | 8° 2 | n.a. | T 6 |
| W 7 | 2 52 7 | 12°10'07 | 11♑21 | 26°24 | 28°16 | 3°33 | 1°16 | 3°59 | 15°38 | 24°34 | 19°36 | 7° 1 | 6°37 | 8° 9 | n.a. | W 7 |
| T 8 | 2 56 4 | 13°11'11 | 23°12 | 26°13 | 29°31 | 4°19 | 1°12 | 4° 3 | 15°39 | 24°33 | 19°35 | 7° 0 | 6°34 | 8°16 | n.a. | T 8 |
| F 9 | 3 0 0 | 14°12'16 | 5♒ 6 | 26°D13 | 0♐46 | 5° 6 | 1° 8 | 4° 7 | 15°39 | 24°33 | 19°34 | 7° 0 | 6°31 | 8°22 | n.a. | F 9 |
| S 10 | 3 3 57 | 15°13'21 | 17° 9 | 26°23 | 2° 1 | 5°52 | 1° 4 | 4°11 | 15°40 | 24°33 | 19°33 | 7°D 0 | 6°28 | 8°29 | n.a. | S 10 |
| S 11 | 3 7 53 | 16°14'27 | 29°25 | 26°42 | 3°16 | 6°39 | 1° 0 | 4°14 | 15°41 | 24°32 | 19°32 | 7° 0 | 6°24 | 8°36 | n.a. | S 11 |
| M12 | 3 11 50 | 17°15'33 | 11♓58 | 27°10 | 4°31 | 7°25 | 0°57 | 4°18 | 15°42 | 24°32 | 19°31 | 7° 1 | 6°21 | 8°43 | n.a. | M12 |
| T 13 | 3 15 46 | 18°16'40 | 24°52 | 27°45 | 5°46 | 8°12 | 0°54 | 4°22 | 15°42 | 24°32 | 19°30 | 7° 2 | 6°18 | 8°49 | n.a. | T 13 |
| W14 | 3 19 43 | 19°17'47 | 8♈11 | 28°27 | 7° 1 | 8°58 | 0°50 | 4°25 | 15°43 | 24°31 | 19°29 | 7° 3 | 6°15 | 8°56 | n.a. | W14 |
| T 15 | 3 23 40 | 20°18'55 | 21°54 | 29°15 | 8°16 | 9°44 | 0°48 | 4°29 | 15°43 | 24°31 | 19°28 | 7° 4 | 6°12 | 9° 3 | n.a. | T 15 |
| F 16 | 3 27 36 | 21°20'03 | 6♉ 3 | 0♏ 8 | 9°32 | 10°31 | 0°45 | 4°32 | 15°44 | 24°30 | 19°27 | 7°R 4 | 6° 9 | 9° 9 | n.a. | F 16 |
| S 17 | 3 31 33 | 22°21'12 | 20°32 | 1° 5 | 10°47 | 11°17 | 0°42 | 4°36 | 15°44 | 24°30 | 19°26 | 7° 4 | 6° 5 | 9°16 | n.a. | S 17 |
| S 18 | 3 35 29 | 23°22'22 | 5♊17 | 2° 7 | 12° 2 | 12° 4 | 0°40 | 4°39 | 15°45 | 24°29 | 19°24 | 7° 3 | 6° 2 | 9°23 | n.a. | S 18 |
| M19 | 3 39 26 | 24°23'32 | 20°11 | 3°13 | 13°17 | 12°50 | 0°38 | 4°42 | 15°45 | 24°28 | 19°23 | 7° 1 | 5°59 | 9°29 | n.a. | M19 |
| T 20 | 3 43 22 | 25°24'43 | 5♋ 4 | 4°21 | 14°32 | 13°37 | 0°36 | 4°45 | 15°45 | 24°28 | 19°22 | 6°58 | 5°56 | 9°36 | n.a. | T 20 |
| W21 | 3 47 19 | 26°25'55 | 19°49 | 5°32 | 15°47 | 14°24 | 0°34 | 4°48 | 15°45 | 24°27 | 19°21 | 6°56 | 5°53 | 9°43 | n.a. | W21 |
| T 22 | 3 51 15 | 27°27'07 | 4♌21 | 6°46 | 17° 2 | 15°10 | 0°33 | 4°51 | 15°46 | 24°26 | 19°20 | 6°54 | 5°50 | 9°50 | n.a. | T 22 |
| F 23 | 3 55 12 | 28°28'20 | 18°34 | 8° 1 | 18°17 | 15°57 | 0°32 | 4°53 | 15°46 | 24°25 | 19°19 | 6°52 | 5°46 | 9°56 | n.a. | F 23 |
| S 24 | 3 59 9 | 29°29'33 | 2♍27 | 9°19 | 19°32 | 16°43 | 0°31 | 4°56 | 15°R46 | 24°25 | 19°18 | 6°D52 | 5°43 | 10° 3 | n.a. | S 24 |
| S 25 | 4 3 5 | 0♐30'48 | 16° 0 | 10°38 | 20°47 | 17°30 | 0°30 | 4°58 | 15°46 | 24°24 | 19°16 | 6°53 | 5°40 | 10°10 | n.a. | S 25 |
| M26 | 4 7 2 | 1°32'02 | 29°14 | 11°58 | 22° 2 | 18°16 | 0°29 | 5° 1 | 15°45 | 24°23 | 19°15 | 6°54 | 5°37 | 10°16 | n.a. | M26 |
| T 27 | 4 10 58 | 2°33'18 | 12♎11 | 13°20 | 23°17 | 19° 3 | 0°29 | 5° 3 | 15°45 | 24°22 | 19°14 | 6°56 | 5°34 | 10°23 | n.a. | T 27 |
| W28 | 4 14 55 | 3°34'33 | 24°54 | 14°43 | 24°32 | 19°49 | 0°29 | 5° 5 | 15°45 | 24°21 | 19°13 | 6°57 | 5°30 | 10°30 | n.a. | W28 |
| T 29 | 4 18 51 | 4°35'49 | 7♏24 | 16° 7 | 25°46 | 20°36 | 0°D28 | 5° 7 | 15°45 | 24°20 | 19°12 | 6°R58 | 5°27 | 10°37 | n.a. | T 29 |
| F 30 | 4 22 48 | 5♐37'06 | 19♏44 | 17♏31 | 27♐ 1 | 21♑22 | 0♈29 | 5♍ 9 | 15♌45 | 24♋19 | 19♊10 | 6♏57 | 5♏24 | 10♑43 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 13s41 | 11s44 | 0s49 | 10s55 | 1n13 | 18s27 | 0s19 | 25s11 | 1s29 | 0s47 | 1s37 | 12n 8 | 1n57 | 17n 2 | 0n43 | 21n33 | 0n 7 | 22n 2 | 1s16 | 14s 1 | 13s59 | 19s 1 | | n.a. |
| F 2 | 14 2 | 14 55 | 0n21 | 10 13 | 1 30 | 18 49 | 0 22 | 25 11 | 1 29 | 0 48 | 1 37 | 12 6 | 1 57 | 17 2 | 0 43 | 21 33 | 0 7 | 22 2 | 1 16 | 14 1 | 13 58 | 19 0 | | n.a. |
| S 3 | 14 22 | 17 22 | 1 29 | 9 35 | 1 46 | 19 11 | 0 24 | 25 11 | 1 29 | 0 50 | 1 37 | 12 5 | 1 57 | 17 2 | 0 43 | 21 34 | 0 7 | 22 2 | 1 15 | 14 1 | 13 57 | 18 59 | | n.a. |
| S 4 | 14 41 | 18 58 | 2 32 | 9 3 | 2 0 | 19 32 | 0 27 | 25 10 | 1 29 | 0 52 | 1 36 | 12 4 | 1 58 | 17 1 | 0 43 | 21 34 | 0 7 | 22 2 | 1 15 | 14 1 | 13 55 | 18 58 | | n.a. |
| M 5 | 15 1 | 19 41 | 3 27 | 8 36 | 2 11 | 19 53 | 0 29 | 25 9 | 1 28 | 0 54 | 1 36 | 12 2 | 1 58 | 17 1 | 0 43 | 21 34 | 0 7 | 22 2 | 1 15 | 14 1 | 13 54 | 18 57 | | n.a. |
| T 6 | 15 20 | 19 30 | 4 12 | 8 15 | 2 21 | 20 13 | 0 32 | 25 8 | 1 28 | 0 55 | 1 36 | 12 1 | 1 58 | 17 1 | 0 43 | 21 34 | 0 7 | 22 2 | 1 15 | 14 0 | 13 53 | 18 57 | | n.a. |
| W 7 | 15 39 | 18 27 | 4 46 | 8 0 | 2 28 | 20 32 | 0 34 | 25 7 | 1 28 | 0 57 | 1 35 | 11 59 | 1 58 | 17 1 | 0 43 | 21 34 | 0 7 | 22 2 | 1 15 | 14 0 | 13 52 | 18 56 | | n.a. |
| T 8 | 15 58 | 16 37 | 5 8 | 7 51 | 2 34 | 20 51 | 0 36 | 25 5 | 1 27 | 0 58 | 1 35 | 11 58 | 1 59 | 17 0 | 0 43 | 21 34 | 0 7 | 22 2 | 1 15 | 14 0 | 13 51 | 18 55 | | n.a. |
| F 9 | 16 16 | 14 4 | 5 17 | 7 47 | 2 38 | 21 10 | 0 39 | 25 3 | 1 27 | 1 0 | 1 35 | 11 57 | 1 59 | 17 0 | 0 43 | 21 34 | 0 7 | 22 2 | 1 15 | 14 0 | 13 50 | 18 54 | | n.a. |
| S 10 | 16 35 | 10 54 | 5 12 | 7 49 | 2 40 | 21 28 | 0 41 | 25 1 | 1 27 | 1 1 | 1 35 | 11 56 | 1 59 | 17 0 | 0 43 | 21 34 | 0 7 | 22 2 | 1 15 | 14 0 | 13 49 | 18 53 | | n.a. |
| S 11 | 16 53 | 7 13 | 4 53 | 7 55 | 2 40 | 21 45 | 0 43 | 24 58 | 1 26 | 1 2 | 1 34 | 11 55 | 1 59 | 17 0 | 0 43 | 21 34 | 0 7 | 22 2 | 1 15 | 14 0 | 13 48 | 18 52 | | n.a. |
| M12 | 17 10 | 3 9 | 4 20 | 8 5 | 2 40 | 22 1 | 0 46 | 24 55 | 1 26 | 1 3 | 1 34 | 11 53 | 2 0 | 17 0 | 0 43 | 21 34 | 0 7 | 22 2 | 1 15 | 14 0 | 13 47 | 18 52 | | n.a. |
| T 13 | 17 27 | 1n12 | 3 33 | 8 20 | 2 38 | 22 17 | 0 48 | 24 52 | 1 26 | 1 4 | 1 34 | 11 52 | 2 0 | 17 0 | 0 43 | 21 34 | 0 7 | 22 2 | 1 15 | 14 0 | 13 46 | 18 51 | | n.a. |
| W14 | 17 44 | 5 37 | 2 33 | 8 37 | 2 35 | 22 33 | 0 50 | 24 49 | 1 25 | 1 5 | 1 33 | 11 51 | 2 0 | 16 59 | 0 43 | 21 34 | 0 7 | 22 2 | 1 15 | 14 1 | 13 45 | 18 50 | | n.a. |
| T 15 | 18 1 | 9 54 | 1 23 | 8 58 | 2 32 | 22 47 | 0 52 | 24 45 | 1 25 | 1 6 | 1 33 | 11 50 | 2 0 | 16 59 | 0 44 | 21 34 | 0 7 | 22 2 | 1 15 | 14 1 | 13 44 | 18 49 | | n.a. |
| F 16 | 18 17 | 13 46 | 0 6 | 9 20 | 2 28 | 23 1 | 0 55 | 24 41 | 1 25 | 1 7 | 1 33 | 11 49 | 2 1 | 16 59 | 0 44 | 21 35 | 0 7 | 22 2 | 1 15 | 14 1 | 13 43 | 18 48 | | n.a. |
| S 17 | 18 33 | 16 54 | 1s14 | 9 45 | 2 23 | 23 14 | 0 57 | 24 37 | 1 24 | 1 8 | 1 32 | 11 48 | 2 1 | 16 59 | 0 44 | 21 35 | 0 7 | 22 2 | 1 15 | 14 1 | 13 42 | 18 47 | | n.a. |
| S 18 | 18 49 | 18 58 | 2 30 | 10 12 | 2 17 | 23 27 | 0 59 | 24 32 | 1 24 | 1 8 | 1 32 | 11 47 | 2 1 | 16 59 | 0 44 | 21 35 | 0 7 | 22 2 | 1 15 | 14 1 | 13 41 | 18 46 | | n.a. |
| M19 | 19 4 | 19 44 | 3 36 | 10 40 | 2 11 | 23 39 | 1 1 | 24 27 | 1 23 | 1 9 | 1 32 | 11 46 | 2 1 | 16 59 | 0 44 | 21 35 | 0 7 | 22 2 | 1 15 | 14 0 | 13 40 | 18 46 | | n.a. |
| T 20 | 19 19 | 19 8 | 4 28 | 11 9 | 2 5 | 23 50 | 1 3 | 24 22 | 1 23 | 1 9 | 1 31 | 11 45 | 2 2 | 16 59 | 0 44 | 21 35 | 0 7 | 22 2 | 1 15 | 13 59 | 13 39 | 18 45 | | n.a. |
| W21 | 19 34 | 17 15 | 5 1 | 11 39 | 1 59 | 24 0 | 1 5 | 24 17 | 1 23 | 1 10 | 1 31 | 11 45 | 2 2 | 16 59 | 0 44 | 21 35 | 0 8 | 22 2 | 1 15 | 13 58 | 13 37 | 18 44 | | n.a. |
| T 22 | 19 48 | 14 17 | 5 15 | 12 10 | 1 52 | 24 10 | 1 7 | 24 11 | 1 22 | 1 10 | 1 31 | 11 44 | 2 2 | 16 59 | 0 44 | 21 35 | 0 8 | 22 2 | 1 15 | 13 58 | 13 36 | 18 43 | | n.a. |
| F 23 | 20 2 | 10 32 | 5 9 | 12 41 | 1 45 | 24 19 | 1 9 | 24 5 | 1 22 | 1 10 | 1 30 | 11 43 | 2 2 | 16 59 | 0 44 | 21 35 | 0 8 | 22 1 | 1 15 | 13 57 | 13 35 | 18 42 | | n.a. |
| S 24 | 20 16 | 6 17 | 4 45 | 13 13 | 1 38 | 24 27 | 1 11 | 23 59 | 1 21 | 1 10 | 1 30 | 11 42 | 2 3 | 16 59 | 0 44 | 21 36 | 0 8 | 22 1 | 1 15 | 13 57 | 13 34 | 18 41 | | n.a. |
| S 25 | 20 29 | 1 50 | 4 5 | 13 45 | 1 30 | 24 35 | 1 13 | 23 53 | 1 21 | 1 10 | 1 30 | 11 42 | 2 3 | 16 59 | 0 44 | 21 36 | 0 8 | 22 1 | 1 14 | 13 57 | 13 33 | 18 40 | | n.a. |
| M26 | 20 42 | 2s38 | 3 13 | 14 17 | 1 23 | 24 42 | 1 14 | 23 46 | 1 20 | 1 10 | 1 29 | 11 41 | 2 3 | 16 59 | 0 44 | 21 36 | 0 8 | 22 1 | 1 14 | 13 58 | 13 32 | 18 39 | | n.a. |
| T 27 | 20 54 | 6 53 | 2 12 | 14 49 | 1 15 | 24 48 | 1 16 | 23 39 | 1 20 | 1 10 | 1 29 | 11 40 | 2 4 | 16 59 | 0 44 | 21 36 | 0 8 | 22 1 | 1 14 | 13 59 | 13 31 | 18 39 | | n.a. |
| W28 | 21 6 | 10 46 | 1 6 | 15 21 | 1 8 | 24 53 | 1 18 | 23 32 | 1 20 | 1 10 | 1 29 | 11 40 | 2 4 | 16 59 | 0 44 | 21 36 | 0 8 | 22 1 | 1 14 | 13 59 | 13 30 | 18 38 | | n.a. |
| T 29 | 21 17 | 14 6 | 0n 2 | 15 53 | 1 0 | 24 57 | 1 19 | 23 24 | 1 19 | 1 9 | 1 28 | 11 39 | 2 4 | 16 59 | 0 44 | 21 36 | 0 8 | 22 1 | 1 14 | 13 59 | 13 29 | 18 37 | | n.a. |
| F 30 | 21s28 | 16s45 | 1n 9 | 16s24 | 0n52 | 25s 1 | 1s21 | 23s16 | 1s19 | 1s 9 | 1s28 | 11n39 | 2n 4 | 17n 0 | 0n44 | 21n37 | 0n 8 | 22n 1 | 1s14 | 13s59 | 13s28 | 18s36 | | n.a. |

Julian Day Number = 1702003.5, Delta T = 03h05m05s
Ecliptic obliquity = 23°41'58, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°47'51, Lahiri = - 4°40'51 Julian Calendar 1 Nov. 54 BCE == Greg. Calendar 30 Oct. 054 BCE

The year -53 astronomical counting style corresponds to year 054 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 54 BCE
# geocentric

## DECEMBER 54 BCE (-53) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 4 26 44 | 6♐38'22 | 1♐55 | 18♏57 | 28♐16 | 22♑ 9 | 0♈29 | 5♍11 | 15°R44 | 24°R18 | 19°R 9 | 6°R55 | 5♏21 | 10♑50 | n.a. | S 1 |
| S 2 | 4 30 41 | 7°39'39 | 13°58 | 20°23 | 29°31 | 22°56 | 0°30 | 5°13 | 15♌44 | 24♋17 | 19♊ 8 | 6♏51 | 5°18 | 10°57 | n.a. | S 2 |
| M 3 | 4 34 38 | 8°40'56 | 25°56 | 21°50 | 0♑46 | 23°42 | 0°31 | 5°15 | 15°43 | 24°16 | 19° 7 | 6°45 | 5°15 | 11° 3 | n.a. | M 3 |
| T 4 | 4 38 34 | 9°42'12 | 7♑49 | 23°17 | 2° 1 | 24°29 | 0°32 | 5°16 | 15°43 | 24°15 | 19° 5 | 6°39 | 5°11 | 11°10 | n.a. | T 4 |
| W 5 | 4 42 31 | 10°43'29 | 19°40 | 24°46 | 3°16 | 25°15 | 0°33 | 5°18 | 15°42 | 24°14 | 19° 4 | 6°32 | 5° 8 | 11°17 | n.a. | W 5 |
| T 6 | 4 46 27 | 11°44'45 | 1♒31 | 26°14 | 4°31 | 26° 2 | 0°34 | 5°19 | 15°41 | 24°13 | 19° 3 | 6°26 | 5° 5 | 11°24 | n.a. | T 6 |
| F 7 | 4 50 24 | 12°46'00 | 13°25 | 27°43 | 5°45 | 26°48 | 0°36 | 5°20 | 15°41 | 24°12 | 19° 2 | 6°21 | 5° 2 | 11°30 | n.a. | F 7 |
| S 8 | 4 54 20 | 13°47'16 | 25°26 | 29°13 | 7° 0 | 27°35 | 0°38 | 5°21 | 15°40 | 24°11 | 19° 0 | 6°17 | 4°59 | 11°37 | n.a. | S 8 |
| S 9 | 4 58 17 | 14°48'30 | 7♓37 | 0♐43 | 8°15 | 28°21 | 0°40 | 5°22 | 15°39 | 24° 9 | 18°59 | 6°16 | 4°56 | 11°44 | n.a. | S 9 |
| M10 | 5 2 13 | 15°49'44 | 20° 4 | 2°14 | 9°30 | 29° 8 | 0°42 | 5°23 | 15°38 | 24° 8 | 18°58 | 6°D15 | 4°52 | 11°50 | n.a. | M10 |
| T 11 | 5 6 10 | 16°50'58 | 2♈50 | 3°45 | 10°44 | 29°54 | 0°45 | 5°24 | 15°37 | 24° 7 | 18°56 | 6°16 | 4°49 | 11°57 | n.a. | T 11 |
| W12 | 5 10 7 | 17°52'11 | 16° 1 | 5°16 | 11°59 | 0♒41 | 0°47 | 5°25 | 15°36 | 24° 6 | 18°55 | 6°18 | 4°46 | 12° 4 | n.a. | W12 |
| T 13 | 5 14 3 | 18°53'23 | 29°40 | 6°48 | 13°14 | 1°27 | 0°50 | 5°26 | 15°35 | 24° 4 | 18°54 | 6°R19 | 4°43 | 12°11 | n.a. | T 13 |
| F 14 | 5 18 0 | 19°54'35 | 13♉47 | 8°20 | 14°28 | 2°14 | 0°53 | 5°26 | 15°34 | 24° 3 | 18°53 | 6°19 | 4°40 | 12°17 | n.a. | F 14 |
| S 15 | 5 21 56 | 20°55'46 | 28°21 | 9°53 | 15°43 | 3° 0 | 0°57 | 5°26 | 15°33 | 24° 2 | 18°51 | 6°17 | 4°36 | 12°24 | n.a. | S 15 |
| S 16 | 5 25 53 | 21°56'56 | 13♊18 | 11°27 | 16°58 | 3°47 | 1° 0 | 5°27 | 15°32 | 24° 0 | 18°50 | 6°13 | 4°33 | 12°31 | n.a. | S 16 |
| M17 | 5 29 49 | 22°58'06 | 28°30 | 13° 0 | 18°12 | 4°33 | 1° 4 | 5°27 | 15°31 | 23°59 | 18°49 | 6° 7 | 4°30 | 12°37 | n.a. | M17 |
| T 18 | 5 33 46 | 23°59'16 | 13♋46 | 14°35 | 19°27 | 5°19 | 1° 7 | 5°R27 | 15°30 | 23°58 | 18°48 | 5°59 | 4°27 | 12°44 | n.a. | T 18 |
| W19 | 5 37 43 | 25° 0'24 | 28°56 | 16° 9 | 20°41 | 6° 6 | 1°12 | 5°27 | 15°28 | 23°56 | 18°46 | 5°52 | 4°24 | 12°51 | n.a. | W19 |
| T 20 | 5 41 39 | 26° 1'33 | 13♌50 | 17°45 | 21°56 | 6°52 | 1°16 | 5°27 | 15°27 | 23°55 | 18°45 | 5°45 | 4°21 | 12°58 | n.a. | T 20 |
| F 21 | 5 45 36 | 27° 2'40 | 28°20 | 19°20 | 23°10 | 7°38 | 1°20 | 5°26 | 15°25 | 23°53 | 18°44 | 5°39 | 4°17 | 13° 4 | n.a. | F 21 |
| S 22 | 5 49 32 | 28° 3'48 | 12♍24 | 20°57 | 24°25 | 8°25 | 1°25 | 5°26 | 15°24 | 23°52 | 18°43 | 5°36 | 4°14 | 13°11 | n.a. | S 22 |
| S 23 | 5 53 29 | 29° 4'54 | 26° 0 | 22°34 | 25°39 | 9°11 | 1°29 | 5°26 | 15°22 | 23°50 | 18°41 | 5°D34 | 4°11 | 13°18 | n.a. | S 23 |
| M24 | 5 57 25 | 0♑ 6'01 | 9♎10 | 24°11 | 26°53 | 9°57 | 1°34 | 5°25 | 15°21 | 23°49 | 18°40 | 5°35 | 4° 8 | 13°24 | n.a. | M24 |
| T 25 | 6 1 22 | 1° 7'06 | 21°59 | 25°49 | 28° 8 | 10°44 | 1°40 | 5°24 | 15°19 | 23°47 | 18°39 | 5°36 | 4° 5 | 13°31 | n.a. | T 25 |
| W26 | 6 5 18 | 2° 8'12 | 4♏30 | 27°28 | 29°22 | 11°30 | 1°45 | 5°24 | 15°18 | 23°46 | 18°38 | 5°R36 | 4° 1 | 13°38 | n.a. | W26 |
| T 27 | 6 9 15 | 3° 9'16 | 16°47 | 29° 7 | 0♒36 | 12°16 | 1°50 | 5°23 | 15°16 | 23°44 | 18°36 | 5°36 | 3°58 | 13°45 | n.a. | T 27 |
| F 28 | 6 13 12 | 4°10'20 | 28°53 | 0♑47 | 1°51 | 13° 2 | 1°56 | 5°22 | 15°14 | 23°43 | 18°35 | 5°33 | 3°55 | 13°51 | n.a. | F 28 |
| S 29 | 6 17 8 | 5°11'23 | 10♐53 | 2°28 | 3° 5 | 13°48 | 2° 2 | 5°21 | 15°12 | 23°41 | 18°34 | 5°27 | 3°52 | 13°58 | n.a. | S 29 |
| S 30 | 6 21 5 | 6°12'25 | 22°48 | 4° 9 | 4°19 | 14°34 | 2° 8 | 5°19 | 15°11 | 23°40 | 18°33 | 5°19 | 3°49 | 14° 5 | n.a. | S 30 |
| M31 | 6 25 1 | 7♑13'26 | 4♑41 | 5♑51 | 5♒33 | 15♒21 | 2♈14 | 5♍18 | 15♌ 9 | 23♋38 | 18♊31 | 5♏ 8 | 3♏46 | 14♑11 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21s39 | 18s36 | 2n12 | 16s55 | 0n45 | 25s 4 | 1s22 | 23s 8 | 1s18 | 1s 9 | 1s28 | 11n38 | 2n 5 | 17n 0 | 0n44 | 21n37 | 0n 8 | 22n 1 | 1s14 | 13s58 | 13s27 | 18s35 | | n.a. |
| S 2 | 21 49 | 19 36 | 3 9 | 17 26 | 0 37 | 25 6 | 1 24 | 23 0 | 1 18 | 1 8 | 1 27 | 11 38 | 2 5 | 17 0 | 0 44 | 21 37 | 0 8 | 22 1 | 1 14 | 13 57 | 13 26 | 18 34 | | n.a. |
| M 3 | 21 59 | 19 42 | 3 56 | 17 57 | 0 30 | 25 7 | 1 25 | 22 52 | 1 17 | 1 7 | 1 27 | 11 38 | 2 5 | 17 0 | 0 44 | 21 37 | 0 8 | 22 1 | 1 14 | 13 55 | 13 25 | 18 33 | | n.a. |
| T 4 | 22 9 | 18 56 | 4 33 | 18 26 | 0 22 | 25 8 | 1 27 | 22 43 | 1 17 | 1 7 | 1 27 | 11 37 | 2 5 | 17 0 | 0 44 | 21 37 | 0 8 | 22 1 | 1 14 | 13 53 | 13 24 | 18 32 | | n.a. |
| W 5 | 22 18 | 17 20 | 4 58 | 18 55 | 0 15 | 25 8 | 1 28 | 22 34 | 1 16 | 1 6 | 1 26 | 11 37 | 2 6 | 17 1 | 0 44 | 21 38 | 0 8 | 22 1 | 1 14 | 13 51 | 13 23 | 18 31 | | n.a. |
| T 6 | 22 26 | 15 0 | 5 10 | 19 24 | 0 8 | 25 7 | 1 29 | 22 25 | 1 16 | 1 5 | 1 26 | 11 37 | 2 6 | 17 1 | 0 44 | 21 38 | 0 8 | 22 1 | 1 14 | 13 49 | 13 21 | 18 30 | | n.a. |
| F 7 | 22 34 | 12 3 | 5 9 | 19 52 | 0 0 | 25 5 | 1 31 | 22 15 | 1 15 | 1 4 | 1 26 | 11 37 | 2 6 | 17 1 | 0 44 | 21 38 | 0 8 | 22 1 | 1 14 | 13 47 | 13 20 | 18 30 | | n.a. |
| S 8 | 22 42 | 8 34 | 4 54 | 20 19 | 0s 7 | 25 2 | 1 32 | 22 5 | 1 15 | 1 3 | 1 25 | 11 36 | 2 7 | 17 1 | 0 45 | 21 38 | 0 8 | 22 1 | 1 14 | 13 46 | 13 19 | 18 29 | | n.a. |
| S 9 | 22 49 | 4 42 | 4 26 | 20 45 | 0 14 | 24 59 | 1 33 | 21 55 | 1 14 | 1 2 | 1 25 | 11 36 | 2 7 | 17 2 | 0 45 | 21 39 | 0 8 | 22 1 | 1 14 | 13 45 | 13 18 | 18 28 | | n.a. |
| M10 | 22 56 | 0 32 | 3 45 | 21 10 | 0 21 | 24 55 | 1 34 | 21 45 | 1 14 | 1 1 | 1 25 | 11 36 | 2 7 | 17 2 | 0 45 | 21 39 | 0 8 | 22 1 | 1 14 | 13 45 | 13 17 | 18 27 | | n.a. |
| T 11 | 23 2 | 3n46 | 2 52 | 21 35 | 0 27 | 24 50 | 1 35 | 21 35 | 1 13 | 0 59 | 1 24 | 11 36 | 2 7 | 17 2 | 0 45 | 21 39 | 0 8 | 22 1 | 1 14 | 13 45 | 13 16 | 18 26 | | n.a. |
| W12 | 23 8 | 8 2 | 1 48 | 21 58 | 0 34 | 24 44 | 1 36 | 21 24 | 1 13 | 0 58 | 1 24 | 11 36 | 2 8 | 17 2 | 0 45 | 21 39 | 0 8 | 22 1 | 1 13 | 13 46 | 13 15 | 18 25 | | n.a. |
| T 13 | 23 14 | 12 2 | 0 36 | 22 21 | 0 40 | 24 38 | 1 36 | 21 13 | 1 12 | 0 56 | 1 24 | 11 36 | 2 8 | 17 3 | 0 45 | 21 39 | 0 8 | 22 1 | 1 13 | 13 46 | 13 14 | 18 24 | | n.a. |
| F 14 | 23 19 | 15 30 | 0s40 | 22 42 | 0 47 | 24 31 | 1 37 | 21 2 | 1 12 | 0 55 | 1 23 | 11 36 | 2 8 | 17 3 | 0 45 | 21 40 | 0 8 | 22 1 | 1 13 | 13 46 | 13 13 | 18 23 | | n.a. |
| S 15 | 23 23 | 18 7 | 1 56 | 23 3 | 0 53 | 24 23 | 1 38 | 20 51 | 1 11 | 0 53 | 1 23 | 11 36 | 2 9 | 17 4 | 0 45 | 21 40 | 0 8 | 22 0 | 1 13 | 13 46 | 13 12 | 18 22 | | n.a. |
| S 16 | 23 27 | 19 34 | 3 6 | 23 22 | 0 59 | 24 14 | 1 38 | 20 39 | 1 10 | 0 52 | 1 23 | 11 36 | 2 9 | 17 4 | 0 45 | 21 40 | 0 8 | 22 0 | 1 13 | 13 44 | 13 11 | 18 21 | | n.a. |
| M17 | 23 31 | 19 37 | 4 4 | 23 40 | 1 4 | 24 5 | 1 39 | 20 28 | 1 10 | 0 50 | 1 22 | 11 37 | 2 9 | 17 4 | 0 45 | 21 40 | 0 8 | 22 0 | 1 13 | 13 42 | 13 10 | 18 20 | | n.a. |
| T 18 | 23 34 | 18 15 | 4 45 | 23 57 | 1 10 | 23 55 | 1 39 | 20 16 | 1 9 | 0 48 | 1 22 | 11 37 | 2 9 | 17 5 | 0 45 | 21 41 | 0 8 | 22 0 | 1 13 | 13 40 | 13 9 | 18 19 | | n.a. |
| W19 | 23 36 | 15 37 | 5 5 | 24 13 | 1 15 | 23 44 | 1 40 | 20 4 | 1 9 | 0 46 | 1 22 | 11 37 | 2 10 | 17 5 | 0 45 | 21 41 | 0 8 | 22 0 | 1 13 | 13 37 | 13 7 | 18 18 | | n.a. |
| T 20 | 23 38 | 12 0 | 5 4 | 24 28 | 1 20 | 23 32 | 1 40 | 19 51 | 1 8 | 0 44 | 1 21 | 11 38 | 2 10 | 17 6 | 0 45 | 21 41 | 0 8 | 22 0 | 1 13 | 13 35 | 13 6 | 18 17 | | n.a. |
| F 21 | 23 40 | 7 45 | 4 44 | 24 41 | 1 25 | 23 20 | 1 40 | 19 39 | 1 8 | 0 42 | 1 21 | 11 38 | 2 10 | 17 6 | 0 45 | 21 42 | 0 8 | 22 0 | 1 13 | 13 33 | 13 5 | 18 16 | | n.a. |
| S 22 | 23 41 | 3 11 | 4 6 | 24 53 | 1 30 | 23 7 | 1 40 | 19 26 | 1 7 | 0 40 | 1 21 | 11 38 | 2 11 | 17 7 | 0 45 | 21 42 | 0 8 | 22 0 | 1 13 | 13 32 | 13 4 | 18 15 | | n.a. |
| S 23 | 23 42 | 1s23 | 3 16 | 25 3 | 1 34 | 22 53 | 1 41 | 19 13 | 1 6 | 0 38 | 1 20 | 11 39 | 2 11 | 17 7 | 0 45 | 21 42 | 0 8 | 22 0 | 1 13 | 13 31 | 13 3 | 18 14 | | n.a. |
| M24 | 23 42 | 5 46 | 2 17 | 25 12 | 1 38 | 22 39 | 1 41 | 19 0 | 1 6 | 0 35 | 1 20 | 11 39 | 2 11 | 17 8 | 0 45 | 21 42 | 0 8 | 22 0 | 1 13 | 13 31 | 13 2 | 18 14 | | n.a. |
| T 25 | 23 42 | 9 46 | 1 13 | 25 20 | 1 42 | 22 24 | 1 41 | 18 47 | 1 5 | 0 33 | 1 20 | 11 40 | 2 11 | 17 8 | 0 45 | 21 43 | 0 8 | 22 0 | 1 13 | 13 32 | 13 1 | 18 13 | | n.a. |
| W26 | 23 41 | 13 15 | 0 6 | 25 26 | 1 46 | 22 8 | 1 40 | 18 33 | 1 5 | 0 31 | 1 20 | 11 40 | 2 12 | 17 9 | 0 45 | 21 43 | 0 8 | 22 0 | 1 13 | 13 32 | 13 0 | 18 12 | | n.a. |
| T 27 | 23 40 | 16 5 | 1n 0 | 25 31 | 1 49 | 21 52 | 1 40 | 18 20 | 1 4 | 0 28 | 1 19 | 11 41 | 2 12 | 17 9 | 0 45 | 21 43 | 0 8 | 22 0 | 1 13 | 13 32 | 12 59 | 18 11 | | n.a. |
| F 28 | 23 38 | 18 9 | 2 1 | 25 34 | 1 52 | 21 35 | 1 40 | 18 6 | 1 3 | 0 26 | 1 19 | 11 41 | 2 12 | 17 10 | 0 45 | 21 44 | 0 8 | 22 0 | 1 12 | 13 31 | 12 58 | 18 10 | | n.a. |
| S 29 | 23 36 | 19 24 | 2 57 | 25 35 | 1 54 | 21 18 | 1 40 | 17 52 | 1 3 | 0 23 | 1 19 | 11 42 | 2 12 | 17 10 | 0 45 | 21 44 | 0 8 | 22 0 | 1 12 | 13 29 | 12 57 | 18 9 | | n.a. |
| S 30 | 23 33 | 19 46 | 3 44 | 25 34 | 1 57 | 21 0 | 1 39 | 17 38 | 1 2 | 0 20 | 1 18 | 11 43 | 2 13 | 17 11 | 0 45 | 21 44 | 0 8 | 22 0 | 1 12 | 13 26 | 12 55 | 18 8 | | n.a. |
| M31 | 23s30 | 19s16 | 4n21 | 25s32 | 1s58 | 20s41 | 1s39 | 17s23 | 1s 2 | 0s18 | 1s18 | 11n44 | 2n13 | 17n11 | 0n45 | 21n44 | 0n 8 | 22n 0 | 1s12 | 13s22 | 12s54 | 18s 7 | | n.a. |

Julian Day Number = 1702033.5, Delta T = 03h05m04s
Ecliptic obliquity = 23°41'57, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°47'47, Lahiri = - 4°40'47 Julian Calendar 1 Dec. 54 BCE == Greg. Calendar 29 Nov. 054 BCE

The year -53 astronomical counting style corresponds to year 054 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 53 BCE
# geocentric

## JANUARY 53 BCE (-52) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 28 58 | 8♉14'26 | 16♉33 | 7♉33 | 6♒47 | 16♒ 7 | 2♈20 | 5°R17 | 15°R 7 | 23°R36 | 18°R30 | 4°R55 | 3♏42 | 14♉18 | n.a. | T 1 |
| W 2 | 6 32 54 | 9°15'24 | 28°25 | 9°16 | 8° 1 | 16°53 | 2°27 | 5♍15 | 15♌ 5 | 23♋35 | 18♊29 | 4♏42 | 3°39 | 14°25 | n.a. | W 2 |
| T 3 | 6 36 51 | 10°16'22 | 10♒18 | 11° 0 | 9°15 | 17°39 | 2°34 | 5°13 | 15° 3 | 23°33 | 18°28 | 4°30 | 3°36 | 14°32 | n.a. | T 3 |
| F 4 | 6 40 47 | 11°17'18 | 22°15 | 12°45 | 10°29 | 18°25 | 2°41 | 5°12 | 15° 1 | 23°32 | 18°27 | 4°18 | 3°33 | 14°38 | n.a. | F 4 |
| S 5 | 6 44 44 | 12°18'13 | 4♓18 | 14°30 | 11°43 | 19°11 | 2°48 | 5°10 | 14°59 | 23°30 | 18°26 | 4°10 | 3°30 | 14°45 | n.a. | S 5 |
| S 6 | 6 48 41 | 13°19'06 | 16°30 | 16°16 | 12°57 | 19°57 | 2°55 | 5° 8 | 14°57 | 23°28 | 18°24 | 4° 4 | 3°27 | 14°52 | n.a. | S 6 |
| M 7 | 6 52 37 | 14°19'58 | 28°55 | 18° 2 | 14°11 | 20°43 | 3° 2 | 5° 6 | 14°55 | 23°27 | 18°23 | 4° 0 | 3°23 | 14°58 | n.a. | M 7 |
| T 8 | 6 56 34 | 15°20'48 | 11♈36 | 19°49 | 15°25 | 21°28 | 3°10 | 5° 4 | 14°53 | 23°25 | 18°22 | 3°D59 | 3°20 | 15° 5 | n.a. | T 8 |
| W 9 | 7 0 30 | 16°21'36 | 24°38 | 21°37 | 16°39 | 22°14 | 3°17 | 5° 2 | 14°50 | 23°23 | 18°21 | 3°59 | 3°17 | 15°12 | n.a. | W 9 |
| T 10 | 7 4 27 | 17°22'23 | 8♉ 6 | 23°25 | 17°52 | 23° 0 | 3°25 | 4°59 | 14°48 | 23°22 | 18°20 | 3°R59 | 3°14 | 15°19 | n.a. | T 10 |
| F 11 | 7 8 23 | 18°23'08 | 22° 1 | 25°13 | 19° 6 | 23°46 | 3°33 | 4°57 | 14°46 | 23°20 | 18°19 | 3°58 | 3°11 | 15°25 | n.a. | F 11 |
| S 12 | 7 12 20 | 19°23'51 | 6♊25 | 27° 2 | 20°20 | 24°32 | 3°41 | 4°54 | 14°44 | 23°18 | 18°18 | 3°55 | 3° 7 | 15°32 | n.a. | S 12 |
| S 13 | 7 16 16 | 20°24'33 | 21°15 | 28°51 | 21°33 | 25°17 | 3°49 | 4°52 | 14°41 | 23°17 | 18°17 | 3°49 | 3° 4 | 15°39 | n.a. | S 13 |
| M14 | 7 20 13 | 21°25'13 | 6♋26 | 0♒40 | 22°47 | 26° 3 | 3°57 | 4°49 | 14°39 | 23°15 | 18°16 | 3°40 | 3° 1 | 15°45 | n.a. | M14 |
| T 15 | 7 24 10 | 22°25'52 | 21°47 | 2°29 | 24° 0 | 26°48 | 4° 6 | 4°46 | 14°37 | 23°13 | 18°15 | 3°29 | 2°58 | 15°52 | n.a. | T 15 |
| W16 | 7 28 6 | 23°26'29 | 7♌ 7 | 4°18 | 25°14 | 27°34 | 4°15 | 4°43 | 14°34 | 23°11 | 18°14 | 3°18 | 2°55 | 15°59 | n.a. | W16 |
| T 17 | 7 32 3 | 24°27'04 | 22°15 | 6° 6 | 26°27 | 28°20 | 4°23 | 4°40 | 14°32 | 23°10 | 18°13 | 3° 7 | 2°52 | 16° 6 | n.a. | T 17 |
| F 18 | 7 35 59 | 25°27'38 | 7♍ 0 | 7°53 | 27°40 | 29° 5 | 4°32 | 4°37 | 14°30 | 23° 8 | 18°12 | 2°58 | 2°48 | 16°12 | n.a. | F 18 |
| S 19 | 7 39 56 | 26°28'10 | 21°18 | 9°39 | 28°54 | 29°51 | 4°41 | 4°34 | 14°27 | 23° 6 | 18°11 | 2°52 | 2°45 | 16°19 | n.a. | S 19 |
| S 20 | 7 43 52 | 27°28'41 | 5♎ 4 | 11°24 | 0♓ 7 | 0♓36 | 4°50 | 4°31 | 14°25 | 23° 5 | 18°10 | 2°48 | 2°42 | 16°26 | n.a. | S 20 |
| M21 | 7 47 49 | 28°29'11 | 18°22 | 13° 7 | 1°20 | 1°21 | 5° 0 | 4°28 | 14°22 | 23° 3 | 18° 9 | 2°47 | 2°39 | 16°32 | n.a. | M21 |
| T 22 | 7 51 45 | 29°29'39 | 1♏13 | 14°47 | 2°33 | 2° 7 | 5° 9 | 4°24 | 14°20 | 23° 1 | 18° 8 | 2°47 | 2°36 | 16°39 | n.a. | T 22 |
| W23 | 7 55 42 | 0♒30'06 | 13°42 | 16°25 | 3°46 | 2°52 | 5°19 | 4°21 | 14°17 | 23° 0 | 18° 7 | 2°46 | 2°33 | 16°46 | n.a. | W23 |
| T 24 | 7 59 39 | 1°30'31 | 25°55 | 17°59 | 4°59 | 3°37 | 5°28 | 4°18 | 14°15 | 22°58 | 18° 6 | 2°45 | 2°29 | 16°53 | n.a. | T 24 |
| F 25 | 8 3 35 | 2°30'55 | 7♐57 | 19°29 | 6°12 | 4°23 | 5°38 | 4°14 | 14°12 | 22°56 | 18° 5 | 2°41 | 2°26 | 16°59 | n.a. | F 25 |
| S 26 | 8 7 32 | 3°31'17 | 19°51 | 20°54 | 7°25 | 5° 8 | 5°48 | 4°10 | 14°10 | 22°55 | 18° 4 | 2°35 | 2°23 | 17° 6 | n.a. | S 26 |
| S 27 | 8 11 28 | 4°31'38 | 1♑42 | 22°15 | 8°37 | 5°53 | 5°58 | 4° 7 | 14° 7 | 22°53 | 18° 4 | 2°25 | 2°20 | 17°13 | n.a. | S 27 |
| M28 | 8 15 25 | 5°31'57 | 13°32 | 23°29 | 9°50 | 6°38 | 6° 8 | 4° 3 | 14° 5 | 22°51 | 18° 3 | 2°13 | 2°17 | 17°20 | n.a. | M28 |
| T 29 | 8 19 21 | 6°32'14 | 25°24 | 24°37 | 11° 3 | 7°23 | 6°18 | 3°59 | 14° 2 | 22°50 | 18° 2 | 1°59 | 2°13 | 17°26 | n.a. | T 29 |
| W30 | 8 23 18 | 7°32'29 | 7♒19 | 25°38 | 12°15 | 8° 8 | 6°29 | 3°55 | 13°59 | 22°48 | 18° 1 | 1°44 | 2°10 | 17°33 | n.a. | W30 |
| T 31 | 8 27 14 | 8♒32'43 | 19♒19 | 26♒31 | 13♓28 | 8♓53 | 6♈39 | 3♍51 | 13♌57 | 22♋47 | 18♊ 0 | 1♏29 | 2♏ 7 | 17♉40 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | | ☊ | | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | | decl | | decl | | decl | lat |
| T 1 | 23 s26 | 17 s55 | 4n47 | 25 s29 | 2 s 0 | 20 s21 | 1 s38 | 17 s 9 | 1 s 1 | 0 s15 | 1 s18 | 11n44 | 2n13 | 17n12 | 0n45 | 21n45 | 0n 8 | 22n 0 | 1 s12 | 13 s18 | | 12 s53 | | 18 s 6 | | | n.a. |
| W 2 | 23 22 | 15 48 | 5 0 | 25 23 | 2 1 | 20 2 | 1 37 | 16 54 | 1 0 | 0 12 | 1 17 | 11 45 | 2 13 | 17 13 | 0 45 | 21 45 | 0 8 | 22 0 | 1 12 | 13 14 | | 12 52 | | 18 5 | | | n.a. |
| T 3 | 23 18 | 13 1 | 5 1 | 25 16 | 2 2 | 19 41 | 1 37 | 16 40 | 1 0 | 0 9 | 1 17 | 11 46 | 2 14 | 17 13 | 0 45 | 21 45 | 0 8 | 22 0 | 1 12 | 13 9 | | 12 51 | | 18 4 | | | n.a. |
| F 4 | 23 13 | 9 42 | 4 48 | 25 6 | 2 2 | 19 20 | 1 36 | 16 25 | 0 59 | 0 6 | 1 17 | 11 47 | 2 14 | 17 14 | 0 46 | 21 46 | 0 8 | 22 0 | 1 12 | 13 6 | | 12 50 | | 18 3 | | | n.a. |
| S 5 | 23 7 | 5 58 | 4 22 | 24 55 | 2 2 | 18 59 | 1 35 | 16 10 | 0 59 | 0 3 | 1 16 | 11 48 | 2 14 | 17 14 | 0 46 | 21 46 | 0 8 | 22 0 | 1 12 | 13 3 | | 12 49 | | 18 2 | | | n.a. |
| S 6 | 23 1 | 1 57 | 3 44 | 24 42 | 2 1 | 18 36 | 1 34 | 15 54 | 0 58 | 0n 0 | 1 16 | 11 49 | 2 15 | 17 15 | 0 46 | 21 46 | 0 8 | 22 0 | 1 12 | 13 1 | | 12 48 | | 18 1 | | | n.a. |
| M 7 | 22 55 | 2n14 | 2 55 | 24 27 | 2 0 | 18 14 | 1 33 | 15 39 | 0 57 | 0 4 | 1 16 | 11 50 | 2 15 | 17 16 | 0 46 | 21 46 | 0 8 | 22 0 | 1 12 | 12 59 | | 12 47 | | 18 0 | | | n.a. |
| T 8 | 22 48 | 6 25 | 1 56 | 24 10 | 1 58 | 17 51 | 1 32 | 15 23 | 0 57 | 0 7 | 1 16 | 11 51 | 2 15 | 17 16 | 0 46 | 21 47 | 0 8 | 22 0 | 1 12 | 12 59 | | 12 46 | | 17 59 | | | n.a. |
| W 9 | 22 41 | 10 25 | 0 49 | 23 51 | 1 56 | 17 27 | 1 31 | 15 8 | 0 56 | 0 10 | 1 15 | 11 52 | 2 15 | 17 17 | 0 46 | 21 47 | 0 8 | 22 0 | 1 12 | 12 59 | | 12 45 | | 17 58 | | | n.a. |
| T 10 | 22 33 | 14 1 | 0 s22 | 23 30 | 1 53 | 17 3 | 1 29 | 14 52 | 0 55 | 0 14 | 1 15 | 11 53 | 2 16 | 17 18 | 0 46 | 21 47 | 0 8 | 22 0 | 1 11 | 12 59 | | 12 43 | | 17 57 | | | n.a. |
| F 11 | 22 25 | 16 57 | 1 34 | 23 8 | 1 50 | 16 39 | 1 28 | 14 36 | 0 55 | 0 17 | 1 15 | 11 54 | 2 16 | 17 18 | 0 46 | 21 48 | 0 8 | 22 0 | 1 11 | 12 59 | | 12 42 | | 17 56 | | | n.a. |
| S 12 | 22 17 | 18 57 | 2 43 | 22 43 | 1 46 | 16 14 | 1 26 | 14 20 | 0 54 | 0 21 | 1 14 | 11 55 | 2 16 | 17 19 | 0 46 | 21 48 | 0 8 | 22 0 | 1 11 | 12 58 | | 12 41 | | 17 55 | | | n.a. |
| S 13 | 22 8 | 19 43 | 3 42 | 22 16 | 1 42 | 15 49 | 1 25 | 14 4 | 0 53 | 0 24 | 1 14 | 11 56 | 2 16 | 17 20 | 0 46 | 21 48 | 0 8 | 22 0 | 1 11 | 12 55 | | 12 40 | | 17 54 | | | n.a. |
| M14 | 21 58 | 19 5 | 4 28 | 21 48 | 1 36 | 15 23 | 1 23 | 13 48 | 0 53 | 0 28 | 1 14 | 11 58 | 2 17 | 17 21 | 0 46 | 21 49 | 0 8 | 22 0 | 1 11 | 12 52 | | 12 39 | | 17 53 | | | n.a. |
| T 15 | 21 49 | 17 4 | 4 54 | 21 17 | 1 30 | 14 57 | 1 22 | 13 32 | 0 52 | 0 31 | 1 14 | 11 59 | 2 17 | 17 21 | 0 46 | 21 49 | 0 8 | 22 0 | 1 11 | 12 49 | | 12 38 | | 17 52 | | | n.a. |
| W16 | 21 38 | 13 51 | 5 0 | 20 45 | 1 24 | 14 30 | 1 20 | 13 15 | 0 52 | 0 35 | 1 13 | 12 0 | 2 17 | 17 22 | 0 46 | 21 49 | 0 8 | 22 0 | 1 11 | 12 45 | | 12 37 | | 17 50 | | | n.a. |
| T 17 | 21 28 | 9 46 | 4 44 | 20 11 | 1 17 | 14 3 | 1 18 | 12 59 | 0 51 | 0 39 | 1 13 | 12 1 | 2 17 | 17 23 | 0 46 | 21 49 | 0 8 | 22 0 | 1 11 | 12 41 | | 12 36 | | 17 49 | | | n.a. |
| F 18 | 21 17 | 5 10 | 4 10 | 19 36 | 1 8 | 13 36 | 1 16 | 12 42 | 0 50 | 0 43 | 1 13 | 12 3 | 2 17 | 17 23 | 0 46 | 21 50 | 0 8 | 22 0 | 1 11 | 12 38 | | 12 35 | | 17 48 | | | n.a. |
| S 19 | 21 5 | 0 25 | 3 20 | 18 59 | 1 0 | 13 9 | 1 14 | 12 25 | 0 50 | 0 46 | 1 13 | 12 4 | 2 18 | 17 24 | 0 46 | 21 50 | 0 8 | 22 0 | 1 11 | 12 36 | | 12 34 | | 17 47 | | | n.a. |
| S 20 | 20 53 | 4 s11 | 2 21 | 18 21 | 0 50 | 12 41 | 1 12 | 12 8 | 0 49 | 0 50 | 1 12 | 12 6 | 2 18 | 17 25 | 0 46 | 21 50 | 0 8 | 22 0 | 1 11 | 12 35 | | 12 32 | | 17 46 | | | n.a. |
| M21 | 20 41 | 8 26 | 1 15 | 17 42 | 0 40 | 12 13 | 1 10 | 11 52 | 0 48 | 0 54 | 1 12 | 12 7 | 2 18 | 17 26 | 0 46 | 21 51 | 0 8 | 22 0 | 1 11 | 12 34 | | 12 31 | | 17 45 | | | n.a. |
| T 22 | 20 29 | 12 9 | 0 8 | 17 2 | 0 29 | 11 44 | 1 8 | 11 34 | 0 48 | 0 58 | 1 12 | 12 8 | 2 18 | 17 26 | 0 46 | 21 51 | 0 8 | 22 0 | 1 11 | 12 34 | | 12 30 | | 17 44 | | | n.a. |
| W23 | 20 16 | 15 13 | 0n57 | 16 21 | 0 17 | 11 15 | 1 6 | 11 17 | 0 47 | 1 2 | 1 12 | 12 10 | 2 19 | 17 27 | 0 46 | 21 51 | 0 8 | 22 0 | 1 10 | 12 34 | | 12 29 | | 17 43 | | | n.a. |
| T 24 | 20 2 | 17 31 | 1 59 | 15 41 | 0 4 | 10 46 | 1 3 | 11 0 | 0 46 | 1 6 | 1 11 | 12 11 | 2 19 | 17 28 | 0 46 | 21 52 | 0 8 | 22 0 | 1 10 | 12 34 | | 12 28 | | 17 42 | | | n.a. |
| F 25 | 19 49 | 19 0 | 2 54 | 15 0 | 0n 9 | 10 17 | 1 1 | 10 43 | 0 46 | 1 11 | 1 11 | 12 13 | 2 19 | 17 29 | 0 46 | 21 52 | 0 8 | 22 0 | 1 10 | 12 32 | | 12 27 | | 17 41 | | | n.a. |
| S 26 | 19 35 | 19 38 | 3 41 | 14 20 | 0 22 | 9 47 | 0 59 | 10 26 | 0 45 | 1 15 | 1 11 | 12 14 | 2 19 | 17 29 | 0 46 | 21 52 | 0 8 | 22 0 | 1 10 | 12 30 | | 12 26 | | 17 40 | | | n.a. |
| S 27 | 19 20 | 19 23 | 4 18 | 13 40 | 0 37 | 9 17 | 0 56 | 10 8 | 0 44 | 1 19 | 1 11 | 12 16 | 2 19 | 17 30 | 0 46 | 21 52 | 0 8 | 22 0 | 1 10 | 12 27 | | 12 25 | | 17 39 | | | n.a. |
| M28 | 19 6 | 18 18 | 4 44 | 13 2 | 0 51 | 8 47 | 0 54 | 9 51 | 0 44 | 1 23 | 1 10 | 12 18 | 2 19 | 17 31 | 0 46 | 21 53 | 0 8 | 22 0 | 1 10 | 12 22 | | 12 24 | | 17 38 | | | n.a. |
| T 29 | 18 50 | 16 25 | 4 57 | 12 25 | 1 6 | 8 17 | 0 51 | 9 33 | 0 43 | 1 28 | 1 10 | 12 19 | 2 20 | 17 32 | 0 46 | 21 53 | 0 8 | 22 0 | 1 10 | 12 17 | | 12 23 | | 17 37 | | | n.a. |
| W30 | 18 35 | 13 50 | 4 58 | 11 50 | 1 22 | 7 47 | 0 48 | 9 16 | 0 42 | 1 32 | 1 10 | 12 21 | 2 20 | 17 33 | 0 46 | 21 53 | 0 9 | 22 0 | 1 10 | 12 12 | | 12 21 | | 17 36 | | | n.a. |
| T 31 | 18 s19 | 10 s40 | 4n45 | 11 s18 | 1n37 | 7 s16 | 0 s45 | 8 s58 | 0 s42 | 1n36 | 1 s10 | 12n22 | 2n20 | 17n33 | 0n46 | 21n54 | 0n 9 | 22n 0 | 1 s10 | 12 s 7 | | 12 s20 | | 17 s35 | | | n.a. |

Julian Day Number = 1702064.5, Delta T = 03h05m03s
Ecliptic obliquity = 23°41'57, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°47'43, Lahiri = - 4°40'42 Julian Calendar 1 Jan. 53 BCE == Greg. Calendar 30 Dec. 054 BCE

The year -52 astronomical counting style corresponds to year 053 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 53 BCE
# geocentric

## FEBRUARY 53 BCE (-52) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 8 31 11 | 9♒32'54 | 1♓24 | 27♒16 | 14♓40 | 9♓38 | 6♈50 | 3°R47 | 13°R54 | 22°R45 | 18°R 0 | 1°R16 | 2♏ 4 | 17♉46 | n.a. | F 1 |
| S 2 | 8 35 8 | 10°33'03 | 13°36 | 27°53 | 15°52 | 10°23 | 7° 1 | 3♍43 | 13♌52 | 22♋43 | 17♊59 | 1♏ 6 | 2° 1 | 17°53 | n.a. | S 2 |
| S 3 | 8 39 4 | 11°33'11 | 25°56 | 28°20 | 17° 4 | 11° 8 | 7°11 | 3°39 | 13°49 | 22°42 | 17°58 | 0°59 | 1°58 | 18° 0 | n.a. | S 3 |
| M 4 | 8 43 1 | 12°33'16 | 8♈27 | 28°39 | 18°17 | 11°53 | 7°22 | 3°35 | 13°46 | 22°40 | 17°58 | 0°54 | 1°54 | 18° 7 | n.a. | M 4 |
| T 5 | 8 46 57 | 13°33'19 | 21°11 | 28°R48 | 19°29 | 12°38 | 7°33 | 3°31 | 13°44 | 22°39 | 17°57 | 0°52 | 1°51 | 18°13 | n.a. | T 5 |
| W 6 | 8 50 54 | 14°33'19 | 4♉13 | 28°48 | 20°41 | 13°22 | 7°44 | 3°26 | 13°41 | 22°37 | 17°56 | 0°D52 | 1°48 | 18°20 | n.a. | W 6 |
| T 7 | 8 54 50 | 15°33'18 | 17°34 | 28°38 | 21°53 | 14° 7 | 7°55 | 3°22 | 13°39 | 22°36 | 17°56 | 0°R52 | 1°45 | 18°27 | n.a. | T 7 |
| F 8 | 8 58 47 | 16°33'14 | 1♊19 | 28°20 | 23° 4 | 14°52 | 8° 7 | 3°18 | 13°36 | 22°34 | 17°55 | 0°51 | 1°42 | 18°33 | n.a. | F 8 |
| S 9 | 9 2 43 | 17°33'08 | 15°28 | 27°54 | 24°16 | 15°36 | 8°18 | 3°13 | 13°33 | 22°33 | 17°55 | 0°49 | 1°39 | 18°40 | n.a. | S 9 |
| S 10 | 9 6 40 | 18°32'59 | 0♋ 2 | 27°20 | 25°28 | 16°21 | 8°30 | 3° 9 | 13°31 | 22°31 | 17°54 | 0°43 | 1°35 | 18°47 | n.a. | S 10 |
| M11 | 9 10 37 | 19°32'48 | 14°55 | 26°40 | 26°39 | 17° 5 | 8°41 | 3° 4 | 13°28 | 22°30 | 17°54 | 0°36 | 1°32 | 18°54 | n.a. | M11 |
| T 12 | 9 14 33 | 20°32'35 | 0♌ 1 | 25°54 | 27°51 | 17°50 | 8°53 | 3° 0 | 13°25 | 22°28 | 17°53 | 0°26 | 1°29 | 19° 0 | n.a. | T 12 |
| W13 | 9 18 30 | 21°32'20 | 15°12 | 25° 3 | 29° 2 | 18°34 | 9° 4 | 2°55 | 13°23 | 22°27 | 17°53 | 0°16 | 1°26 | 19° 7 | n.a. | W13 |
| T 14 | 9 22 26 | 22°32'03 | 0♍15 | 24° 9 | 0♈13 | 19°19 | 9°16 | 2°51 | 13°20 | 22°25 | 17°52 | 0° 6 | 1°23 | 19°14 | n.a. | T 14 |
| F 15 | 9 26 23 | 23°31'43 | 15° 1 | 23°12 | 1°24 | 20° 3 | 9°28 | 2°46 | 13°18 | 22°24 | 17°52 | 29♎57 | 1°19 | 19°20 | n.a. | F 15 |
| S 16 | 9 30 19 | 24°31'22 | 29°23 | 22°15 | 2°35 | 20°47 | 9°40 | 2°42 | 13°15 | 22°23 | 17°51 | 29°51 | 1°16 | 19°27 | n.a. | S 16 |
| S 17 | 9 34 16 | 25°30'58 | 13♎17 | 21°19 | 3°46 | 21°32 | 9°52 | 2°37 | 13°13 | 22°21 | 17°51 | 29°48 | 1°13 | 19°34 | n.a. | S 17 |
| M18 | 9 38 12 | 26°30'33 | 26°42 | 20°24 | 4°57 | 22°16 | 10° 4 | 2°32 | 13°10 | 22°20 | 17°51 | 29°D47 | 1°10 | 19°41 | n.a. | M18 |
| T 19 | 9 42 9 | 27°30'06 | 9♏40 | 19°31 | 6° 7 | 23° 0 | 10°16 | 2°28 | 13° 8 | 22°19 | 17°50 | 29°47 | 1° 7 | 19°47 | n.a. | T 19 |
| W20 | 9 46 6 | 28°29'37 | 22°15 | 18°42 | 7°18 | 23°44 | 10°29 | 2°23 | 13° 5 | 22°17 | 17°50 | 29°48 | 1° 4 | 19°54 | n.a. | W20 |
| T 21 | 9 50 2 | 29°29'06 | 4♐31 | 17°58 | 8°28 | 24°28 | 10°41 | 2°18 | 13° 3 | 22°16 | 17°50 | 29°R48 | 1° 0 | 20° 1 | n.a. | T 21 |
| F 22 | 9 53 59 | 0♓28'33 | 16°34 | 17°18 | 9°39 | 25°12 | 10°53 | 2°14 | 13° 0 | 22°15 | 17°49 | 29°46 | 0°57 | 20° 8 | n.a. | F 22 |
| S 23 | 9 57 55 | 1°27'59 | 28°28 | 16°44 | 10°49 | 25°56 | 11° 6 | 2° 9 | 12°58 | 22°13 | 17°49 | 29°42 | 0°54 | 20°14 | n.a. | S 23 |
| S 24 | 10 1 52 | 2°27'22 | 10♑19 | 16°15 | 11°59 | 26°40 | 11°18 | 2° 4 | 12°55 | 22°12 | 17°49 | 29°36 | 0°51 | 20°21 | n.a. | S 24 |
| M25 | 10 5 48 | 3°26'44 | 22°10 | 15°52 | 13° 9 | 27°24 | 11°31 | 2° 0 | 12°53 | 22°11 | 17°49 | 29°28 | 0°48 | 20°28 | n.a. | M25 |
| T 26 | 10 9 45 | 4°26'04 | 4♒ 4 | 15°35 | 14°19 | 28° 8 | 11°44 | 1°55 | 12°50 | 22°10 | 17°48 | 29°18 | 0°45 | 20°34 | n.a. | T 26 |
| W27 | 10 13 41 | 5°25'21 | 16° 4 | 15°25 | 15°29 | 28°51 | 11°56 | 1°50 | 12°48 | 22° 9 | 17°48 | 29° 8 | 0°41 | 20°41 | n.a. | W27 |
| T 28 | 10 17 38 | 6°24'37 | 28°11 | 15°D20 | 16°38 | 29°35 | 12° 9 | 1°46 | 12°46 | 22° 8 | 17°48 | 28°57 | 0°38 | 20°48 | n.a. | T 28 |
| F 29 | 10 21 34 | 7♓23'50 | 10♓27 | 15♒20 | 17♈48 | 0♈19 | 12♈22 | 1♍41 | 12♌43 | 22♋ 7 | 17♊48 | 28♎48 | 0♏35 | 20♉55 | n.a. | F 29 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 18s 3 | 7s 3 | 4n20 | 10s48 | 1n52 | 6s45 | 0s43 | 8s40 | 0s41 | 1n41 | 1s 9 | 12n24 | 2n20 | 17n34 | 0n46 | 21n54 | 0n 9 | 22n 0 | 1s10 | 12s 3 | 12s19 | 17s34 | | n.a. |
| S 2 | 17 47 | 3 6 | 3 42 | 10 21 | 2 7 | 6 14 | 0 40 | 8 22 | 0 40 | 1 45 | 1 9 | 12 26 | 2 20 | 17 35 | 0 46 | 21 54 | 0 9 | 22 0 | 1 10 | 11 59 | 12 18 | 17 33 | | n.a. |
| S 3 | 17 30 | 1n 1 | 2 53 | 9 58 | 2 22 | 5 43 | 0 37 | 8 5 | 0 40 | 1 50 | 1 9 | 12 27 | 2 21 | 17 36 | 0 46 | 21 54 | 0 9 | 22 0 | 1 10 | 11 56 | 12 17 | 17 31 | | n.a. |
| M 4 | 17 13 | 5 9 | 1 56 | 9 38 | 2 36 | 5 12 | 0 34 | 7 47 | 0 39 | 1 54 | 1 9 | 12 29 | 2 21 | 17 36 | 0 46 | 21 55 | 0 9 | 22 0 | 1 9 | 11 55 | 12 16 | 17 30 | | n.a. |
| T 5 | 16 56 | 9 8 | 0 51 | 9 22 | 2 49 | 4 41 | 0 31 | 7 29 | 0 38 | 1 59 | 1 9 | 12 31 | 2 21 | 17 37 | 0 46 | 21 55 | 0 9 | 22 0 | 1 9 | 11 54 | 12 15 | 17 29 | | n.a. |
| W 6 | 16 39 | 12 47 | 0s18 | 9 11 | 3 2 | 4 9 | 0 28 | 7 11 | 0 38 | 2 3 | 1 8 | 12 32 | 2 21 | 17 38 | 0 46 | 21 55 | 0 9 | 22 0 | 1 9 | 11 54 | 12 14 | 17 28 | | n.a. |
| T 7 | 16 21 | 15 52 | 1 27 | 9 3 | 3 13 | 3 38 | 0 24 | 6 53 | 0 37 | 2 8 | 1 8 | 12 34 | 2 21 | 17 39 | 0 46 | 21 55 | 0 9 | 22 0 | 1 9 | 11 54 | 12 13 | 17 27 | | n.a. |
| F 8 | 16 3 | 18 8 | 2 34 | 9 0 | 3 23 | 3 6 | 0 21 | 6 35 | 0 36 | 2 13 | 1 8 | 12 36 | 2 21 | 17 39 | 0 46 | 21 56 | 0 9 | 22 0 | 1 9 | 11 54 | 12 11 | 17 26 | | n.a. |
| S 9 | 15 44 | 19 22 | 3 33 | 9 1 | 3 32 | 2 34 | 0 18 | 6 17 | 0 36 | 2 17 | 1 8 | 12 38 | 2 21 | 17 40 | 0 46 | 21 56 | 0 9 | 22 0 | 1 9 | 11 53 | 12 10 | 17 25 | | n.a. |
| S 10 | 15 26 | 19 22 | 4 20 | 9 6 | 3 39 | 2 3 | 0 15 | 5 59 | 0 35 | 2 22 | 1 8 | 12 39 | 2 22 | 17 41 | 0 46 | 21 56 | 0 9 | 22 0 | 1 9 | 11 51 | 12 9 | 17 24 | | n.a. |
| M11 | 15 7 | 18 2 | 4 51 | 9 15 | 3 44 | 1 31 | 0 11 | 5 41 | 0 34 | 2 27 | 1 7 | 12 41 | 2 22 | 17 42 | 0 46 | 21 56 | 0 9 | 22 0 | 1 9 | 11 48 | 12 8 | 17 23 | | n.a. |
| T 12 | 14 48 | 15 27 | 5 2 | 9 28 | 3 47 | 0 59 | 0 8 | 5 22 | 0 33 | 2 32 | 1 7 | 12 43 | 2 22 | 17 42 | 0 46 | 21 57 | 0 9 | 22 0 | 1 9 | 11 45 | 12 7 | 17 22 | | n.a. |
| W13 | 14 29 | 11 48 | 4 52 | 9 44 | 3 48 | 0 27 | 0 4 | 5 4 | 0 33 | 2 37 | 1 7 | 12 45 | 2 22 | 17 43 | 0 46 | 21 57 | 0 9 | 22 0 | 1 9 | 11 41 | 12 6 | 17 20 | | n.a. |
| T 14 | 14 9 | 7 26 | 4 22 | 10 3 | 3 47 | 0n 4 | 0 1 | 4 46 | 0 32 | 2 41 | 1 7 | 12 46 | 2 22 | 17 44 | 0 46 | 21 57 | 0 9 | 22 0 | 1 9 | 11 38 | 12 5 | 17 19 | | n.a. |
| F 15 | 13 49 | 2 40 | 3 34 | 10 24 | 3 44 | 0 36 | 0n 3 | 4 28 | 0 31 | 2 46 | 1 7 | 12 48 | 2 22 | 17 45 | 0 46 | 21 57 | 0 9 | 22 0 | 1 8 | 11 35 | 12 4 | 17 18 | | n.a. |
| S 16 | 13 29 | 2s 7 | 2 34 | 10 47 | 3 39 | 1 8 | 0 6 | 4 10 | 0 31 | 2 51 | 1 6 | 12 50 | 2 22 | 17 45 | 0 46 | 21 58 | 0 9 | 22 0 | 1 8 | 11 32 | 12 3 | 17 17 | | n.a. |
| S 17 | 13 9 | 6 38 | 1 27 | 11 12 | 3 32 | 1 40 | 0 10 | 3 51 | 0 30 | 2 56 | 1 6 | 12 52 | 2 22 | 17 46 | 0 46 | 21 58 | 0 9 | 22 0 | 1 8 | 11 31 | 12 1 | 17 16 | | n.a. |
| M18 | 12 49 | 10 40 | 0 16 | 11 37 | 3 24 | 2 11 | 0 13 | 3 33 | 0 29 | 3 1 | 1 6 | 12 54 | 2 22 | 17 47 | 0 46 | 21 58 | 0 9 | 22 0 | 1 8 | 11 31 | 12 0 | 17 15 | | n.a. |
| T 19 | 12 28 | 14 2 | 0n53 | 12 3 | 3 14 | 2 43 | 0 17 | 3 15 | 0 29 | 3 6 | 1 6 | 12 55 | 2 23 | 17 48 | 0 46 | 21 58 | 0 9 | 22 0 | 1 8 | 11 31 | 11 59 | 17 14 | | n.a. |
| W20 | 12 8 | 16 39 | 1 57 | 12 29 | 3 3 | 3 15 | 0 21 | 2 57 | 0 28 | 3 11 | 1 6 | 12 57 | 2 23 | 17 48 | 0 46 | 21 59 | 0 9 | 22 0 | 1 8 | 11 31 | 11 58 | 17 13 | | n.a. |
| T 21 | 11 47 | 18 25 | 2 54 | 12 54 | 2 51 | 3 46 | 0 25 | 2 38 | 0 27 | 3 16 | 1 5 | 12 59 | 2 23 | 17 49 | 0 46 | 21 59 | 0 9 | 22 0 | 1 8 | 11 31 | 11 57 | 17 12 | | n.a. |
| F 22 | 11 25 | 19 19 | 3 43 | 13 19 | 2 38 | 4 18 | 0 28 | 2 20 | 0 27 | 3 21 | 1 5 | 13 1 | 2 23 | 17 50 | 0 46 | 21 59 | 0 9 | 22 1 | 1 8 | 11 31 | 11 56 | 17 10 | | n.a. |
| S 23 | 11 4 | 19 20 | 4 21 | 13 42 | 2 24 | 4 49 | 0 32 | 2 2 | 0 26 | 3 26 | 1 5 | 13 2 | 2 23 | 17 50 | 0 46 | 21 59 | 0 9 | 22 1 | 1 8 | 11 29 | 11 55 | 17 9 | | n.a. |
| S 24 | 10 43 | 18 31 | 4 48 | 14 5 | 2 9 | 5 20 | 0 36 | 1 44 | 0 25 | 3 32 | 1 5 | 13 4 | 2 23 | 17 51 | 0 46 | 21 59 | 0 9 | 22 1 | 1 8 | 11 27 | 11 54 | 17 8 | | n.a. |
| M25 | 10 21 | 16 53 | 5 2 | 14 26 | 1 55 | 5 51 | 0 40 | 1 25 | 0 25 | 3 37 | 1 5 | 13 6 | 2 23 | 17 52 | 0 46 | 22 0 | 0 9 | 22 1 | 1 8 | 11 24 | 11 52 | 17 7 | | n.a. |
| T 26 | 9 59 | 14 32 | 5 4 | 14 45 | 1 40 | 6 22 | 0 44 | 1 7 | 0 24 | 3 42 | 1 5 | 13 8 | 2 23 | 17 52 | 0 46 | 22 0 | 0 9 | 22 1 | 1 7 | 11 21 | 11 51 | 17 6 | | n.a. |
| W27 | 9 37 | 11 33 | 4 52 | 15 2 | 1 25 | 6 53 | 0 47 | 0 49 | 0 23 | 3 47 | 1 4 | 13 9 | 2 23 | 17 53 | 0 46 | 22 0 | 0 9 | 22 1 | 1 7 | 11 17 | 11 50 | 17 5 | | n.a. |
| T 28 | 9 15 | 8 4 | 4 27 | 15 18 | 1 10 | 7 24 | 0 51 | 0 31 | 0 23 | 3 52 | 1 4 | 13 11 | 2 23 | 17 54 | 0 46 | 22 0 | 0 9 | 22 1 | 1 7 | 11 13 | 11 49 | 17 4 | | n.a. |
| F 29 | 8s53 | 4s12 | 3n49 | 15s32 | 0n56 | 7n54 | 0n55 | 0s13 | 0s22 | 3n57 | 1s 4 | 13n13 | 2n23 | 17n54 | 0n46 | 22n 0 | 0n 9 | 22n 1 | 1s 7 | 11s10 | 11s48 | 17s 2 | | n.a. |

Julian Day Number = 1702095.5, Delta T = 03h05m02s
Ecliptic obliquity = 23°41'57, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°47'39, Lahiri = - 4°40'38 Julian Calendar 1 Feb. 53 BCE == Greg. Calendar 30 Jan. 053 BCE

The year -52 astronomical counting style corresponds to year 053 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 53 BCE
# geocentric

## MARCH 53 BCE (-52) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 25 31 | 8♓23'01 | 22♓53 | 15♒26 | 18♈57 | 1♈ 2 | 12♈35 | 1°R36 | 12°R41 | 22°R 5 | 17°R48 | 28°R41 | 0♏32 | 21♑ 1 | n.a. | S 1 |
| S 2 | 10 29 28 | 9°22'10 | 5♈28 | 15°38 | 20° 6 | 1°46 | 12°48 | 1♍32 | 12♌39 | 22♋ 4 | 17♊48 | 28♎36 | 0°29 | 21° 8 | n.a. | S 2 |
| M 3 | 10 33 24 | 10°21'17 | 18°15 | 15°55 | 21°15 | 2°30 | 13° 1 | 1°27 | 12°37 | 22° 3 | 17°48 | 28°33 | 0°25 | 21°15 | n.a. | M 3 |
| T 4 | 10 37 21 | 11°20'22 | 1♉14 | 16°16 | 22°24 | 3°13 | 13°14 | 1°22 | 12°34 | 22° 2 | 17°D48 | 28°D33 | 0°22 | 21°21 | n.a. | T 4 |
| W 5 | 10 41 17 | 12°19'24 | 14°26 | 16°43 | 23°33 | 3°56 | 13°27 | 1°18 | 12°32 | 22° 1 | 17°48 | 28°34 | 0°19 | 21°28 | n.a. | W 5 |
| T 6 | 10 45 14 | 13°18'24 | 27°53 | 17°13 | 24°41 | 4°40 | 13°40 | 1°13 | 12°30 | 22° 1 | 17°48 | 28°35 | 0°16 | 21°35 | n.a. | T 6 |
| F 7 | 10 49 10 | 14°17'21 | 11♊37 | 17°48 | 25°50 | 5°23 | 13°54 | 1° 9 | 12°28 | 22° 0 | 17°48 | 28°R36 | 0°13 | 21°42 | n.a. | F 7 |
| S 8 | 10 53 7 | 15°16'16 | 25°39 | 18°27 | 26°58 | 6° 6 | 14° 7 | 1° 4 | 12°26 | 21°59 | 17°48 | 28°35 | 0°10 | 21°48 | n.a. | S 8 |
| S 9 | 10 57 3 | 16°15'09 | 9♋57 | 19°10 | 28° 6 | 6°50 | 14°20 | 1° 0 | 12°24 | 21°58 | 17°48 | 28°33 | 0° 6 | 21°55 | n.a. | S 9 |
| M10 | 11 1 0 | 17°13'59 | 24°29 | 19°56 | 29°14 | 7°33 | 14°34 | 0°55 | 12°22 | 21°57 | 17°48 | 28°29 | 0° 3 | 22° 2 | n.a. | M10 |
| T 11 | 11 4 57 | 18°12'47 | 9♌11 | 20°46 | 0♉22 | 8°16 | 14°47 | 0°51 | 12°20 | 21°56 | 17°49 | 28°24 | 0° 0 | 22° 9 | n.a. | T 11 |
| W12 | 11 8 53 | 19°11'32 | 23°57 | 21°39 | 1°30 | 8°59 | 15° 0 | 0°47 | 12°18 | 21°56 | 17°49 | 28°18 | 29♎57 | 22°15 | n.a. | W12 |
| T 13 | 11 12 50 | 20°10'16 | 8♍39 | 22°35 | 2°37 | 9°42 | 15°14 | 0°42 | 12°16 | 21°55 | 17°49 | 28°12 | 29°54 | 22°22 | n.a. | T 13 |
| F 14 | 11 16 46 | 21° 8'57 | 23° 9 | 23°34 | 3°44 | 10°25 | 15°27 | 0°38 | 12°14 | 21°54 | 17°49 | 28° 7 | 29°50 | 22°29 | n.a. | F 14 |
| S 15 | 11 20 43 | 22° 7'36 | 7♎21 | 24°35 | 4°51 | 11° 8 | 15°41 | 0°34 | 12°12 | 21°53 | 17°50 | 28° 4 | 29°47 | 22°35 | n.a. | S 15 |
| S 16 | 11 24 39 | 23° 6'13 | 21°10 | 25°40 | 5°58 | 11°51 | 15°55 | 0°30 | 12°11 | 21°53 | 17°50 | 28° 2 | 29°44 | 22°42 | n.a. | S 16 |
| M17 | 11 28 36 | 24° 4'48 | 4♏35 | 26°47 | 7° 5 | 12°34 | 16° 8 | 0°26 | 12° 9 | 21°52 | 17°50 | 28°D 2 | 29°41 | 22°49 | n.a. | M17 |
| T 18 | 11 32 32 | 25° 3'22 | 17°36 | 27°56 | 8°11 | 13°17 | 16°22 | 0°22 | 12° 7 | 21°52 | 17°50 | 28° 3 | 29°38 | 22°56 | n.a. | T 18 |
| W19 | 11 36 29 | 26° 1'53 | 0♐15 | 29° 8 | 9°17 | 13°59 | 16°36 | 0°18 | 12° 5 | 21°51 | 17°51 | 28° 5 | 29°35 | 23° 2 | n.a. | W19 |
| T 20 | 11 40 25 | 27° 0'23 | 12°35 | 0♓22 | 10°23 | 14°42 | 16°49 | 0°14 | 12° 4 | 21°51 | 17°51 | 28° 7 | 29°31 | 23° 9 | n.a. | T 20 |
| F 21 | 11 44 22 | 27°58'52 | 24°42 | 1°38 | 11°29 | 15°25 | 17° 3 | 0°10 | 12° 2 | 21°50 | 17°52 | 28°R 8 | 29°28 | 23°16 | n.a. | F 21 |
| S 22 | 11 48 19 | 28°57'18 | 6♑39 | 2°56 | 12°35 | 16° 7 | 17°17 | 0° 6 | 12° 1 | 21°50 | 17°52 | 28° 7 | 29°25 | 23°22 | n.a. | S 22 |
| S 23 | 11 52 15 | 29°55'43 | 18°32 | 4°17 | 13°40 | 16°50 | 17°31 | 0° 2 | 11°59 | 21°49 | 17°52 | 28° 6 | 29°22 | 23°29 | n.a. | S 23 |
| M24 | 11 56 12 | 0♈54'06 | 0♒24 | 5°39 | 14°45 | 17°32 | 17°45 | 29♌59 | 11°58 | 21°49 | 17°53 | 28° 3 | 29°19 | 23°36 | n.a. | M24 |
| T 25 | 12 0 8 | 1°52'27 | 12°21 | 7° 4 | 15°50 | 18°15 | 17°59 | 29°55 | 11°56 | 21°48 | 17°53 | 27°59 | 29°16 | 23°43 | n.a. | T 25 |
| W26 | 12 4 5 | 2°50'47 | 24°26 | 8°30 | 16°55 | 18°57 | 18°13 | 29°51 | 11°55 | 21°48 | 17°54 | 27°55 | 29°12 | 23°49 | n.a. | W26 |
| T 27 | 12 8 1 | 3°49'05 | 6♓41 | 9°58 | 17°59 | 19°40 | 18°26 | 29°48 | 11°54 | 21°48 | 17°55 | 27°51 | 29° 9 | 23°56 | n.a. | T 27 |
| F 28 | 12 11 58 | 4°47'21 | 19° 8 | 11°29 | 19° 4 | 20°22 | 18°40 | 29°45 | 11°52 | 21°48 | 17°55 | 27°48 | 29° 6 | 24° 3 | n.a. | F 28 |
| S 29 | 12 15 54 | 5°45'35 | 1♈48 | 13° 1 | 20° 8 | 21° 4 | 18°54 | 29°41 | 11°51 | 21°47 | 17°56 | 27°45 | 29° 3 | 24°10 | n.a. | S 29 |
| S 30 | 12 19 51 | 6°43'48 | 14°43 | 14°35 | 21°11 | 21°47 | 19° 8 | 29°38 | 11°50 | 21°47 | 17°56 | 27°43 | 29° 0 | 24°16 | n.a. | S 30 |
| M31 | 12 23 47 | 7♈41'59 | 27♈51 | 16♓11 | 22♉15 | 22♈29 | 19♈22 | 29♌35 | 11♌49 | 21♋47 | 17♊57 | 27°D43 | 28♎56 | 24♑23 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 8s31 | 0s 7 | 3n 0 | 15s43 | 0n41 | 8n24 | 0n59 | 0n 6 | 0s21 | 4n 3 | 1s 4 | 13n15 | 2n23 | 17n55 | 0n46 | 22n 1 | 0n 9 | 22n 1 | 1s 7 | 11s 7 | 11s47 | 17s 1 | | n.a. |
| S 2 | 8 8 | 4n 3 | 2 1 | 15 53 | 0 27 | 8 55 | 1 3 | 0 24 | 0 21 | 4 8 | 1 4 | 13 16 | 2 23 | 17 56 | 0 46 | 22 1 | 0 9 | 22 1 | 1 7 | 11 6 | 11 46 | 17 0 | | n.a. |
| M 3 | 7 46 | 8 5 | 0 55 | 16 1 | 0 14 | 9 24 | 1 7 | 0 42 | 0 20 | 4 13 | 1 4 | 13 18 | 2 23 | 17 56 | 0 46 | 22 1 | 0 9 | 22 1 | 1 7 | 11 5 | 11 45 | 16 59 | | n.a. |
| T 4 | 7 23 | 11 48 | 0s14 | 16 8 | 0 0 | 9 54 | 1 11 | 1 0 | 0 19 | 4 18 | 1 4 | 13 20 | 2 23 | 17 57 | 0 46 | 22 1 | 0 9 | 22 1 | 1 7 | 11 4 | 11 44 | 16 58 | | n.a. |
| W 5 | 7 1 | 15 0 | 1 25 | 16 12 | 0s12 | 10 24 | 1 15 | 1 18 | 0 19 | 4 24 | 1 3 | 13 21 | 2 23 | 17 58 | 0 46 | 22 1 | 0 9 | 22 1 | 1 7 | 11 5 | 11 42 | 16 57 | | n.a. |
| T 6 | 6 38 | 17 26 | 2 32 | 16 14 | 0 25 | 10 53 | 1 18 | 1 36 | 0 18 | 4 29 | 1 3 | 13 23 | 2 23 | 17 58 | 0 46 | 22 1 | 0 9 | 22 2 | 1 7 | 11 5 | 11 41 | 16 55 | | n.a. |
| F 7 | 6 15 | 18 56 | 3 32 | 16 14 | 0 36 | 11 22 | 1 22 | 1 54 | 0 17 | 4 34 | 1 3 | 13 25 | 2 23 | 17 59 | 0 46 | 22 2 | 0 9 | 22 2 | 1 7 | 11 5 | 11 40 | 16 54 | | n.a. |
| S 8 | 5 52 | 19 18 | 4 20 | 16 13 | 0 48 | 11 50 | 1 26 | 2 12 | 0 17 | 4 40 | 1 3 | 13 26 | 2 23 | 17 59 | 0 46 | 22 2 | 0 9 | 22 2 | 1 7 | 11 5 | 11 39 | 16 53 | | n.a. |
| S 9 | 5 29 | 18 27 | 4 53 | 16 10 | 0 58 | 12 19 | 1 30 | 2 30 | 0 16 | 4 45 | 1 3 | 13 28 | 2 23 | 18 0 | 0 46 | 22 2 | 0 9 | 22 2 | 1 6 | 11 5 | 11 38 | 16 52 | | n.a. |
| M10 | 5 6 | 16 23 | 5 9 | 16 4 | 1 8 | 12 47 | 1 34 | 2 48 | 0 15 | 4 50 | 1 3 | 13 29 | 2 23 | 18 0 | 0 46 | 22 2 | 0 9 | 22 2 | 1 6 | 11 3 | 11 37 | 16 51 | | n.a. |
| T 11 | 4 43 | 13 16 | 5 4 | 15 58 | 1 18 | 13 15 | 1 38 | 3 5 | 0 15 | 4 56 | 1 3 | 13 31 | 2 23 | 18 1 | 0 46 | 22 2 | 0 9 | 22 2 | 1 6 | 11 1 | 11 36 | 16 50 | | n.a. |
| W12 | 4 19 | 9 17 | 4 39 | 15 49 | 1 27 | 13 42 | 1 42 | 3 23 | 0 14 | 5 1 | 1 2 | 13 33 | 2 23 | 18 2 | 0 46 | 22 2 | 0 9 | 22 2 | 1 6 | 10 59 | 11 34 | 16 48 | | n.a. |
| T 13 | 3 56 | 4 46 | 3 56 | 15 38 | 1 36 | 14 9 | 1 45 | 3 41 | 0 13 | 5 6 | 1 2 | 13 34 | 2 23 | 18 2 | 0 46 | 22 2 | 0 9 | 22 2 | 1 6 | 10 57 | 11 33 | 16 47 | | n.a. |
| F 14 | 3 33 | 0 1 | 2 58 | 15 26 | 1 43 | 14 36 | 1 49 | 3 58 | 0 13 | 5 12 | 1 2 | 13 36 | 2 23 | 18 3 | 0 46 | 22 3 | 0 9 | 22 2 | 1 6 | 10 55 | 11 32 | 16 46 | | n.a. |
| S 15 | 3 9 | 4s38 | 1 50 | 15 12 | 1 51 | 15 3 | 1 53 | 4 16 | 0 12 | 5 17 | 1 2 | 13 37 | 2 23 | 18 3 | 0 46 | 22 3 | 0 9 | 22 2 | 1 6 | 10 54 | 11 31 | 16 45 | | n.a. |
| S 16 | 2 46 | 8 55 | 0 37 | 14 57 | 1 57 | 15 29 | 1 57 | 4 34 | 0 11 | 5 23 | 1 2 | 13 38 | 2 23 | 18 4 | 0 46 | 22 3 | 0 9 | 22 3 | 1 6 | 10 53 | 11 30 | 16 44 | | n.a. |
| M17 | 2 23 | 12 38 | 0n36 | 14 39 | 2 4 | 15 55 | 2 0 | 4 51 | 0 11 | 5 28 | 1 2 | 13 40 | 2 23 | 18 4 | 0 46 | 22 3 | 0 9 | 22 3 | 1 6 | 10 53 | 11 29 | 16 42 | | n.a. |
| T 18 | 1 59 | 15 35 | 1 45 | 14 20 | 2 9 | 16 20 | 2 4 | 5 9 | 0 10 | 5 33 | 1 2 | 13 41 | 2 23 | 18 4 | 0 46 | 22 3 | 0 9 | 22 3 | 1 6 | 10 54 | 11 28 | 16 41 | | n.a. |
| W19 | 1 36 | 17 42 | 2 47 | 14 0 | 2 14 | 16 45 | 2 7 | 5 26 | 0 9 | 5 39 | 1 2 | 13 43 | 2 23 | 18 5 | 0 46 | 22 3 | 0 9 | 22 3 | 1 6 | 10 54 | 11 27 | 16 40 | | n.a. |
| T 20 | 1 12 | 18 55 | 3 40 | 13 38 | 2 19 | 17 10 | 2 11 | 5 43 | 0 9 | 5 44 | 1 1 | 13 44 | 2 23 | 18 5 | 0 46 | 22 3 | 0 9 | 22 3 | 1 5 | 10 55 | 11 25 | 16 39 | | n.a. |
| F 21 | 0 49 | 19 14 | 4 22 | 13 14 | 2 23 | 17 34 | 2 15 | 6 0 | 0 8 | 5 50 | 1 1 | 13 45 | 2 23 | 18 6 | 0 46 | 22 3 | 0 9 | 22 3 | 1 5 | 10 55 | 11 24 | 16 38 | | n.a. |
| S 22 | 0 25 | 18 41 | 4 52 | 12 48 | 2 26 | 17 58 | 2 18 | 6 18 | 0 8 | 5 55 | 1 1 | 13 47 | 2 23 | 18 6 | 0 45 | 22 3 | 0 9 | 22 3 | 1 5 | 10 55 | 11 23 | 16 36 | | n.a. |
| S 23 | 0 2 | 17 18 | 5 9 | 12 21 | 2 29 | 18 22 | 2 22 | 6 35 | 0 7 | 6 0 | 1 1 | 13 48 | 2 23 | 18 7 | 0 45 | 22 3 | 0 9 | 22 3 | 1 5 | 10 55 | 11 22 | 16 35 | | n.a. |
| M24 | 0n22 | 15 11 | 5 13 | 11 53 | 2 31 | 18 45 | 2 25 | 6 52 | 0 6 | 6 6 | 1 1 | 13 49 | 2 22 | 18 7 | 0 45 | 22 4 | 0 9 | 22 4 | 1 5 | 10 54 | 11 21 | 16 34 | | n.a. |
| T 25 | 0 45 | 12 26 | 5 3 | 11 22 | 2 33 | 19 7 | 2 28 | 7 9 | 0 6 | 6 11 | 1 1 | 13 50 | 2 22 | 18 7 | 0 45 | 22 4 | 0 9 | 22 4 | 1 5 | 10 52 | 11 20 | 16 33 | | n.a. |
| W26 | 1 9 | 9 7 | 4 41 | 10 51 | 2 34 | 19 29 | 2 32 | 7 26 | 0 5 | 6 17 | 1 1 | 13 52 | 2 22 | 18 8 | 0 45 | 22 4 | 0 9 | 22 4 | 1 5 | 10 51 | 11 19 | 16 32 | | n.a. |
| T 27 | 1 32 | 5 22 | 4 5 | 10 18 | 2 35 | 19 51 | 2 35 | 7 42 | 0 4 | 6 22 | 1 1 | 13 53 | 2 22 | 18 8 | 0 45 | 22 4 | 0 9 | 22 4 | 1 5 | 10 49 | 11 17 | 16 30 | | n.a. |
| F 28 | 1 55 | 1 20 | 3 16 | 9 43 | 2 35 | 20 12 | 2 38 | 7 59 | 0 4 | 6 28 | 1 1 | 13 54 | 2 22 | 18 8 | 0 45 | 22 4 | 0 9 | 22 4 | 1 5 | 10 48 | 11 16 | 16 29 | | n.a. |
| S 29 | 2 19 | 2n50 | 2 18 | 9 7 | 2 34 | 20 33 | 2 41 | 8 16 | 0 3 | 6 33 | 1 0 | 13 55 | 2 22 | 18 9 | 0 45 | 22 4 | 0 9 | 22 4 | 1 5 | 10 47 | 11 15 | 16 28 | | n.a. |
| S 30 | 2 42 | 6 57 | 1 11 | 8 29 | 2 33 | 20 53 | 2 44 | 8 32 | 0 2 | 6 39 | 1 0 | 13 56 | 2 22 | 18 9 | 0 45 | 22 4 | 0 9 | 22 4 | 1 5 | 10 47 | 11 14 | 16 27 | | n.a. |
| M31 | 3n 5 | 10n49 | 0s 1 | 7s50 | 2s32 | 21n13 | 2n47 | 8n49 | 0s 2 | 6n44 | 1s 0 | 13n57 | 2n22 | 18n 9 | 0n45 | 22n 4 | 0n 9 | 22n 5 | 1s 5 | 10s46 | 11s13 | 16s25 | | n.a. |

Julian Day Number = 1702124.5, Delta T = 03h05m02s
Ecliptic obliquity = 23°41'58, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°47'35, Lahiri = - 4°40'34 Julian Calendar 1 March 53 BCE == Greg. Calendar 28 Feb. 053 BCE

The year -52 astronomical counting style corresponds to year 053 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 53 BCE
# geocentric

## APRIL 53 BCE (-52) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 27 44 | 8♈40'07 | 11♉12 | 17♓48 | 23♉18 | 23♈11 | 19♈36 | 29°R32 | 11°R48 | 21°R47 | 17♊58 | 27♎43 | 28♎53 | 24♑30 | n.a. | T 1 |
| W 2 | 12 31 41 | 9°38'14 | 24°46 | 19°28 | 24°21 | 23°53 | 19°50 | 29♌29 | 11♌47 | 21♋47 | 17°58 | 27°44 | 28°50 | 24°36 | n.a. | W 2 |
| T 3 | 12 35 37 | 10°36'19 | 8♊31 | 21° 9 | 25°23 | 24°35 | 20° 5 | 29°26 | 11°46 | 21°47 | 17°59 | 27°46 | 28°47 | 24°43 | n.a. | T 3 |
| F 4 | 12 39 34 | 11°34'22 | 22°27 | 22°52 | 26°25 | 25°17 | 20°19 | 29°23 | 11°45 | 21°D47 | 18° 0 | 27°47 | 28°44 | 24°50 | n.a. | F 4 |
| S 5 | 12 43 30 | 12°32'23 | 6♋32 | 24°37 | 27°27 | 25°59 | 20°33 | 29°20 | 11°44 | 21°47 | 18° 0 | 27°R47 | 28°41 | 24°57 | n.a. | S 5 |
| S 6 | 12 47 27 | 13°30'22 | 20°44 | 26°24 | 28°29 | 26°41 | 20°47 | 29°17 | 11°43 | 21°47 | 18° 1 | 27°47 | 28°37 | 25° 3 | n.a. | S 6 |
| M 7 | 12 51 23 | 14°28'19 | 5♌ 2 | 28°13 | 29°30 | 27°23 | 21° 1 | 29°15 | 11°42 | 21°47 | 18° 2 | 27°47 | 28°34 | 25°10 | n.a. | M 7 |
| T 8 | 12 55 20 | 15°26'14 | 19°22 | 0♈ 3 | 0♊31 | 28° 5 | 21°15 | 29°12 | 11°42 | 21°47 | 18° 3 | 27°45 | 28°31 | 25°17 | n.a. | T 8 |
| W 9 | 12 59 16 | 16°24'07 | 3♍40 | 1°56 | 1°31 | 28°47 | 21°29 | 29°10 | 11°41 | 21°47 | 18° 4 | 27°44 | 28°28 | 25°23 | n.a. | W 9 |
| T 10 | 13 3 13 | 17°21'58 | 17°53 | 3°50 | 2°32 | 29°28 | 21°43 | 29° 7 | 11°40 | 21°47 | 18° 4 | 27°43 | 28°25 | 25°30 | n.a. | T 10 |
| F 11 | 13 7 10 | 18°19'47 | 1♎57 | 5°46 | 3°31 | 0♉10 | 21°57 | 29° 5 | 11°40 | 21°47 | 18° 5 | 27°42 | 28°21 | 25°37 | n.a. | F 11 |
| S 12 | 13 11 6 | 19°17'34 | 15°46 | 7°44 | 4°31 | 0°52 | 22°11 | 29° 3 | 11°39 | 21°48 | 18° 6 | 27°41 | 28°18 | 25°44 | n.a. | S 12 |
| S 13 | 13 15 3 | 20°15'21 | 29°19 | 9°43 | 5°30 | 1°33 | 22°26 | 29° 1 | 11°39 | 21°48 | 18° 7 | 27°D41 | 28°15 | 25°50 | n.a. | S 13 |
| M14 | 13 18 59 | 21°13'05 | 12♏33 | 11°45 | 6°28 | 2°15 | 22°40 | 28°59 | 11°38 | 21°48 | 18° 8 | 27°41 | 28°12 | 25°57 | n.a. | M14 |
| T 15 | 13 22 56 | 22°10'48 | 25°29 | 13°48 | 7°26 | 2°56 | 22°54 | 28°57 | 11°38 | 21°48 | 18° 9 | 27°42 | 28° 9 | 26° 4 | n.a. | T 15 |
| W16 | 13 26 52 | 23° 8'30 | 8♐ 6 | 15°53 | 8°24 | 3°38 | 23° 8 | 28°55 | 11°38 | 21°49 | 18°10 | 27°42 | 28° 6 | 26°11 | n.a. | W16 |
| T 17 | 13 30 49 | 24° 6'11 | 20°27 | 17°59 | 9°21 | 4°19 | 23°22 | 28°53 | 11°37 | 21°49 | 18°11 | 27°43 | 28° 2 | 26°17 | n.a. | T 17 |
| F 18 | 13 34 45 | 25° 3'51 | 2♑35 | 20° 6 | 10°18 | 5° 0 | 23°36 | 28°52 | 11°37 | 21°50 | 18°12 | 27°43 | 27°59 | 26°24 | n.a. | F 18 |
| S 19 | 13 38 42 | 26° 1'29 | 14°34 | 22°15 | 11°14 | 5°42 | 23°50 | 28°50 | 11°37 | 21°50 | 18°13 | 27°43 | 27°56 | 26°31 | n.a. | S 19 |
| S 20 | 13 42 39 | 26°59'06 | 26°28 | 24°24 | 12°10 | 6°23 | 24° 4 | 28°49 | 11°37 | 21°51 | 18°14 | 27°43 | 27°53 | 26°37 | n.a. | S 20 |
| M21 | 13 46 35 | 27°56'43 | 8♒22 | 26°35 | 13° 5 | 7° 4 | 24°19 | 28°47 | 11°D37 | 21°51 | 18°15 | 27°43 | 27°50 | 26°44 | n.a. | M21 |
| T 22 | 13 50 32 | 28°54'18 | 20°20 | 28°46 | 14° 0 | 7°46 | 24°33 | 28°46 | 11°37 | 21°52 | 18°16 | 27°43 | 27°47 | 26°51 | n.a. | T 22 |
| W23 | 13 54 28 | 29°51'52 | 2♓27 | 0♉57 | 14°54 | 8°27 | 24°47 | 28°45 | 11°37 | 21°52 | 18°17 | 27°43 | 27°43 | 26°58 | n.a. | W23 |
| T 24 | 13 58 25 | 0♉49'25 | 14°46 | 3° 9 | 15°48 | 9° 8 | 25° 1 | 28°44 | 11°37 | 21°53 | 18°18 | 27°44 | 27°40 | 27° 4 | n.a. | T 24 |
| F 25 | 14 2 21 | 1°46'56 | 27°21 | 5°20 | 16°41 | 9°49 | 25°15 | 28°43 | 11°37 | 21°53 | 18°19 | 27°44 | 27°37 | 27°11 | n.a. | F 25 |
| S 26 | 14 6 18 | 2°44'27 | 10♈14 | 7°31 | 17°33 | 10°30 | 25°29 | 28°42 | 11°37 | 21°54 | 18°21 | 27°44 | 27°34 | 27°18 | n.a. | S 26 |
| S 27 | 14 10 14 | 3°41'57 | 23°25 | 9°41 | 18°25 | 11°11 | 25°43 | 28°42 | 11°38 | 21°55 | 18°22 | 27°R45 | 27°31 | 27°25 | n.a. | S 27 |
| M28 | 14 14 11 | 4°39'26 | 6♉55 | 11°49 | 19°16 | 11°52 | 25°57 | 28°41 | 11°38 | 21°56 | 18°23 | 27°45 | 27°27 | 27°31 | n.a. | M28 |
| T 29 | 14 18 8 | 5°36'53 | 20°41 | 13°57 | 20° 7 | 12°33 | 26°11 | 28°40 | 11°38 | 21°56 | 18°24 | 27°44 | 27°24 | 27°38 | n.a. | T 29 |
| W30 | 14 22 4 | 6♉34'20 | 4♊42 | 16♉ 3 | 20♊56 | 13♉14 | 26♈25 | 28♌40 | 11♌39 | 21♋57 | 18♊25 | 27♎43 | 27♎21 | 27♑45 | n.a. | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3n28 | 14n11 | 1s14 | 7s10 | 2s29 | 21n32 | 2n50 | 9n 5 | 0s 1 | 6n49 | 1s 0 | 13n58 | 2n22 | 18n10 | 0n45 | 22n 4 | 0n 9 | 22n 5 | 1s 4 | 10s47 | 11s12 | 16s24 | | n.a. |
| W 2 | 3 51 | 16 50 | 2 24 | 6 28 | 2 27 | 21 51 | 2 53 | 9 21 | 0 1 | 6 55 | 1 0 | 13 59 | 2 22 | 18 10 | 0 45 | 22 4 | 0 9 | 22 5 | 1 4 | 10 47 | 11 11 | 16 23 | | n.a. |
| T 3 | 4 15 | 18 34 | 3 27 | 5 44 | 2 23 | 22 9 | 2 55 | 9 38 | 0n 0 | 7 0 | 1 0 | 14 0 | 2 21 | 18 10 | 0 45 | 22 4 | 0 9 | 22 5 | 1 4 | 10 47 | 11 10 | 16 22 | | n.a. |
| F 4 | 4 37 | 19 11 | 4 18 | 5 0 | 2 20 | 22 27 | 2 58 | 9 54 | 0 1 | 7 6 | 1 0 | 14 1 | 2 21 | 18 10 | 0 45 | 22 4 | 0 9 | 22 5 | 1 4 | 10 48 | 11 8 | 16 21 | | n.a. |
| S 5 | 5 0 | 18 38 | 4 55 | 4 14 | 2 15 | 22 44 | 3 1 | 10 10 | 0 1 | 7 11 | 1 0 | 14 2 | 2 21 | 18 10 | 0 45 | 22 4 | 0 9 | 22 5 | 1 4 | 10 48 | 11 7 | 16 19 | | n.a. |
| S 6 | 5 23 | 16 55 | 5 14 | 3 26 | 2 10 | 23 1 | 3 3 | 10 26 | 0 2 | 7 17 | 1 0 | 14 3 | 2 21 | 18 11 | 0 45 | 22 4 | 0 9 | 22 5 | 1 4 | 10 48 | 11 6 | 16 18 | | n.a. |
| M 7 | 5 46 | 14 9 | 5 13 | 2 38 | 2 5 | 23 17 | 3 5 | 10 42 | 0 3 | 7 22 | 1 0 | 14 3 | 2 21 | 18 11 | 0 45 | 22 4 | 0 9 | 22 6 | 1 4 | 10 48 | 11 5 | 16 17 | | n.a. |
| T 8 | 6 8 | 10 31 | 4 54 | 1 48 | 1 59 | 23 32 | 3 8 | 10 57 | 0 3 | 7 27 | 1 0 | 14 4 | 2 21 | 18 11 | 0 45 | 22 4 | 0 9 | 22 6 | 1 4 | 10 47 | 11 4 | 16 16 | | n.a. |
| W 9 | 6 31 | 6 18 | 4 16 | 0 57 | 1 53 | 23 47 | 3 10 | 11 13 | 0 4 | 7 33 | 1 0 | 14 5 | 2 21 | 18 11 | 0 45 | 22 4 | 0 9 | 22 6 | 1 4 | 10 47 | 11 3 | 16 14 | | n.a. |
| T 10 | 6 53 | 1 44 | 3 23 | 0 4 | 1 46 | 24 2 | 3 12 | 11 28 | 0 4 | 7 38 | 0 59 | 14 6 | 2 20 | 18 11 | 0 45 | 22 4 | 0 9 | 22 6 | 1 4 | 10 46 | 11 2 | 16 13 | | n.a. |
| F 11 | 7 16 | 2s53 | 2 18 | 0n49 | 1 38 | 24 15 | 3 14 | 11 44 | 0 5 | 7 44 | 0 59 | 14 6 | 2 20 | 18 11 | 0 45 | 22 4 | 0 9 | 22 6 | 1 4 | 10 46 | 11 0 | 16 12 | | n.a. |
| S 12 | 7 38 | 7 17 | 1 6 | 1 43 | 1 30 | 24 29 | 3 16 | 11 59 | 0 6 | 7 49 | 0 59 | 14 7 | 2 20 | 18 12 | 0 45 | 22 4 | 0 9 | 22 6 | 1 3 | 10 46 | 10 59 | 16 11 | | n.a. |
| S 13 | 8 0 | 11 13 | 0n 9 | 2 38 | 1 22 | 24 41 | 3 17 | 12 14 | 0 6 | 7 54 | 0 59 | 14 8 | 2 20 | 18 12 | 0 45 | 22 4 | 0 9 | 22 7 | 1 3 | 10 46 | 10 58 | 16 9 | | n.a. |
| M14 | 8 22 | 14 29 | 1 21 | 3 34 | 1 13 | 24 53 | 3 19 | 12 29 | 0 7 | 8 0 | 0 59 | 14 8 | 2 20 | 18 12 | 0 45 | 22 4 | 0 9 | 22 7 | 1 3 | 10 46 | 10 57 | 16 8 | | n.a. |
| T 15 | 8 44 | 16 57 | 2 28 | 4 31 | 1 4 | 25 5 | 3 21 | 12 44 | 0 7 | 8 5 | 0 59 | 14 9 | 2 20 | 18 12 | 0 45 | 22 4 | 0 9 | 22 7 | 1 3 | 10 46 | 10 56 | 16 7 | | n.a. |
| W16 | 9 5 | 18 31 | 3 26 | 5 28 | 0 55 | 25 16 | 3 22 | 12 59 | 0 8 | 8 10 | 0 59 | 14 9 | 2 20 | 18 12 | 0 45 | 22 4 | 0 9 | 22 7 | 1 3 | 10 46 | 10 55 | 16 6 | | n.a. |
| T 17 | 9 27 | 19 9 | 4 13 | 6 26 | 0 45 | 25 26 | 3 23 | 13 14 | 0 9 | 8 16 | 0 59 | 14 10 | 2 19 | 18 12 | 0 45 | 22 4 | 0 9 | 22 7 | 1 3 | 10 46 | 10 53 | 16 4 | | n.a. |
| F 18 | 9 48 | 18 53 | 4 47 | 7 24 | 0 35 | 25 36 | 3 24 | 13 29 | 0 9 | 8 21 | 0 59 | 14 10 | 2 19 | 18 12 | 0 45 | 22 4 | 0 9 | 22 7 | 1 3 | 10 46 | 10 52 | 16 3 | | n.a. |
| S 19 | 10 9 | 17 47 | 5 9 | 8 23 | 0 24 | 25 45 | 3 25 | 13 43 | 0 10 | 8 26 | 0 59 | 14 10 | 2 19 | 18 12 | 0 45 | 22 4 | 0 9 | 22 8 | 1 3 | 10 46 | 10 51 | 16 2 | | n.a. |
| S 20 | 10 31 | 15 54 | 5 17 | 9 21 | 0 14 | 25 54 | 3 26 | 13 58 | 0 10 | 8 32 | 0 59 | 14 11 | 2 19 | 18 12 | 0 45 | 22 3 | 0 9 | 22 8 | 1 3 | 10 46 | 10 50 | 16 0 | | n.a. |
| M21 | 10 51 | 13 21 | 5 12 | 10 19 | 0 3 | 26 2 | 3 27 | 14 12 | 0 11 | 8 37 | 0 59 | 14 11 | 2 19 | 18 12 | 0 44 | 22 3 | 0 9 | 22 8 | 1 3 | 10 46 | 10 49 | 15 59 | | n.a. |
| T 22 | 11 12 | 10 14 | 4 53 | 11 16 | 0n 7 | 26 9 | 3 27 | 14 26 | 0 12 | 8 42 | 0 59 | 14 11 | 2 19 | 18 12 | 0 44 | 22 3 | 0 9 | 22 8 | 1 3 | 10 47 | 10 48 | 15 58 | | n.a. |
| W23 | 11 33 | 6 40 | 4 21 | 12 13 | 0 18 | 26 16 | 3 28 | 14 40 | 0 12 | 8 47 | 0 59 | 14 12 | 2 18 | 18 12 | 0 44 | 22 3 | 0 9 | 22 8 | 1 3 | 10 47 | 10 47 | 15 57 | | n.a. |
| T 24 | 11 53 | 2 44 | 3 36 | 13 8 | 0 28 | 26 23 | 3 28 | 14 54 | 0 13 | 8 53 | 0 59 | 14 12 | 2 18 | 18 12 | 0 44 | 22 3 | 0 9 | 22 8 | 1 3 | 10 47 | 10 45 | 15 55 | | n.a. |
| F 25 | 12 13 | 1n23 | 2 41 | 14 3 | 0 38 | 26 28 | 3 28 | 15 8 | 0 13 | 8 58 | 0 59 | 14 12 | 2 18 | 18 12 | 0 44 | 22 3 | 0 9 | 22 9 | 1 2 | 10 47 | 10 44 | 15 54 | | n.a. |
| S 26 | 12 33 | 5 33 | 1 36 | 14 56 | 0 48 | 26 33 | 3 28 | 15 21 | 0 14 | 9 3 | 0 59 | 14 12 | 2 18 | 18 12 | 0 44 | 22 3 | 0 9 | 22 9 | 1 2 | 10 47 | 10 43 | 15 53 | | n.a. |
| S 27 | 12 53 | 9 34 | 0 24 | 15 47 | 0 58 | 26 38 | 3 28 | 15 35 | 0 15 | 9 8 | 0 58 | 14 12 | 2 18 | 18 12 | 0 44 | 22 3 | 0 9 | 22 9 | 1 2 | 10 47 | 10 42 | 15 51 | | n.a. |
| M28 | 13 13 | 13 10 | 0s51 | 16 37 | 1 7 | 26 42 | 3 27 | 15 48 | 0 15 | 9 13 | 0 58 | 14 12 | 2 18 | 18 11 | 0 44 | 22 3 | 0 9 | 22 9 | 1 2 | 10 47 | 10 41 | 15 50 | | n.a. |
| T 29 | 13 32 | 16 8 | 2 4 | 17 24 | 1 16 | 26 45 | 3 26 | 16 1 | 0 16 | 9 19 | 0 58 | 14 12 | 2 17 | 18 11 | 0 44 | 22 3 | 0 9 | 22 9 | 1 2 | 10 47 | 10 40 | 15 49 | | n.a. |
| W30 | 13n51 | 18n11 | 3s11 | 18n10 | 1n24 | 26n48 | 3n26 | 16n14 | 0n16 | 9n24 | 0s58 | 14n12 | 2n17 | 18n11 | 0n44 | 22n 2 | 0n 9 | 22n 9 | 1s 2 | 10s47 | 10s39 | 15s48 | | n.a. |

Julian Day Number = 1702155.5, Delta T = 03h05m01s
Ecliptic obliquity = 23°41'58, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°47'30, Lahiri = - 4°40'30 Julian Calendar 1 Apr. 53 BCE == Greg. Calendar 30 March 053 BCE

The year -52 astronomical counting style corresponds to year 053 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 53 BCE
# geocentric

## MAY 53 BCE (-52) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 26 1 | 7♉31'45 | 18♊54 | 18♉ 8 | 21♊45 | 13♉55 | 26♈39 | 28°R40 | 11♌39 | 21♋58 | 18♊26 | 27°R42 | 27♎18 | 27♑51 | n.a. | T 1 |
| F 2 | 14 29 57 | 8°29'09 | 3♋11 | 20°10 | 22°34 | 14°35 | 26°53 | 28♌39 | 11°40 | 21°59 | 18°28 | 27♎41 | 27°15 | 27°58 | n.a. | F 2 |
| S 3 | 14 33 54 | 9°26'32 | 17°31 | 22°11 | 23°21 | 15°16 | 27° 7 | 28°39 | 11°40 | 22° 0 | 18°29 | 27°40 | 27°12 | 28° 5 | n.a. | S 3 |
| S 4 | 14 37 50 | 10°23'53 | 1♌49 | 24° 9 | 24° 8 | 15°57 | 27°21 | 28°D39 | 11°41 | 22° 1 | 18°30 | 27°39 | 27° 8 | 28°12 | n.a. | S 4 |
| M 5 | 14 41 47 | 11°21'14 | 16° 2 | 26° 5 | 24°54 | 16°37 | 27°35 | 28°39 | 11°42 | 22° 2 | 18°32 | 27°D39 | 27° 5 | 28°18 | n.a. | M 5 |
| T 6 | 14 45 43 | 12°18'32 | 0♍ 9 | 27°59 | 25°38 | 17°18 | 27°49 | 28°40 | 11°43 | 22° 3 | 18°33 | 27°40 | 27° 2 | 28°25 | n.a. | T 6 |
| W 7 | 14 49 40 | 13°15'50 | 14° 7 | 29°50 | 26°22 | 17°59 | 28° 3 | 28°40 | 11°43 | 22° 4 | 18°34 | 27°41 | 26°59 | 28°32 | n.a. | W 7 |
| T 8 | 14 53 37 | 14°13'07 | 27°54 | 1♊39 | 27° 6 | 18°39 | 28°16 | 28°40 | 11°44 | 22° 5 | 18°35 | 27°42 | 26°56 | 28°38 | n.a. | T 8 |
| F 9 | 14 57 33 | 15°10'22 | 11♎30 | 3°25 | 27°48 | 19°20 | 28°30 | 28°41 | 11°45 | 22° 6 | 18°37 | 27°43 | 26°52 | 28°45 | n.a. | F 9 |
| S 10 | 15 1 30 | 16° 7'37 | 24°53 | 5° 9 | 28°29 | 20° 0 | 28°44 | 28°41 | 11°46 | 22° 7 | 18°38 | 27°R44 | 26°49 | 28°52 | n.a. | S 10 |
| S 11 | 15 5 26 | 17° 4'51 | 8♏ 3 | 6°50 | 29° 8 | 20°41 | 28°58 | 28°42 | 11°47 | 22° 8 | 18°39 | 27°43 | 26°46 | 28°59 | n.a. | S 11 |
| M12 | 15 9 23 | 18° 2'04 | 21° 0 | 8°28 | 29°47 | 21°21 | 29°11 | 28°43 | 11°48 | 22° 9 | 18°41 | 27°42 | 26°43 | 29° 5 | n.a. | M12 |
| T 13 | 15 13 19 | 18°59'16 | 3♐42 | 10° 4 | 0♋25 | 22° 1 | 29°25 | 28°44 | 11°49 | 22°10 | 18°42 | 27°40 | 26°40 | 29°12 | n.a. | T 13 |
| W14 | 15 17 16 | 19°56'28 | 16°11 | 11°37 | 1° 1 | 22°42 | 29°39 | 28°45 | 11°50 | 22°12 | 18°44 | 27°37 | 26°37 | 29°19 | n.a. | W14 |
| T 15 | 15 21 12 | 20°53'39 | 28°28 | 13° 7 | 1°37 | 23°22 | 29°52 | 28°46 | 11°52 | 22°13 | 18°45 | 27°33 | 26°33 | 29°26 | n.a. | T 15 |
| F 16 | 15 25 9 | 21°50'50 | 10♑34 | 14°35 | 2°11 | 24° 2 | 0♉ 6 | 28°47 | 11°53 | 22°14 | 18°46 | 27°29 | 26°30 | 29°32 | n.a. | F 16 |
| S 17 | 15 29 6 | 22°48'01 | 22°32 | 16° 0 | 2°43 | 24°42 | 0°20 | 28°48 | 11°54 | 22°15 | 18°48 | 27°26 | 26°27 | 29°39 | n.a. | S 17 |
| S 18 | 15 33 2 | 23°45'11 | 4♒26 | 17°22 | 3°14 | 25°22 | 0°33 | 28°50 | 11°56 | 22°17 | 18°49 | 27°24 | 26°24 | 29°46 | n.a. | S 18 |
| M19 | 15 36 59 | 24°42'21 | 16°20 | 18°41 | 3°44 | 26° 3 | 0°47 | 28°51 | 11°57 | 22°18 | 18°51 | 27°22 | 26°21 | 29°52 | n.a. | M19 |
| T 20 | 15 40 55 | 25°39'30 | 28°17 | 19°58 | 4°12 | 26°43 | 1° 0 | 28°53 | 11°58 | 22°19 | 18°52 | 27°D22 | 26°18 | 29°59 | n.a. | T 20 |
| W21 | 15 44 52 | 26°36'40 | 10♓23 | 21°11 | 4°39 | 27°23 | 1°13 | 28°54 | 12° 0 | 22°21 | 18°54 | 27°22 | 26°14 | 0♒ 6 | n.a. | W21 |
| T 22 | 15 48 48 | 27°33'49 | 22°42 | 22°22 | 5° 4 | 28° 3 | 1°27 | 28°56 | 12° 2 | 22°22 | 18°55 | 27°24 | 26°11 | 0°13 | n.a. | T 22 |
| F 23 | 15 52 45 | 28°30'58 | 5♈19 | 23°29 | 5°28 | 28°43 | 1°40 | 28°58 | 12° 3 | 22°24 | 18°56 | 27°26 | 26° 8 | 0°19 | n.a. | F 23 |
| S 24 | 15 56 41 | 29°28'07 | 18°17 | 24°34 | 5°50 | 29°23 | 1°53 | 29° 0 | 12° 5 | 22°25 | 18°58 | 27°27 | 26° 5 | 0°26 | n.a. | S 24 |
| S 25 | 16 0 38 | 0♊25'17 | 1♉39 | 25°35 | 6°10 | 0♊ 3 | 2° 6 | 29° 2 | 12° 6 | 22°27 | 18°59 | 27°R27 | 26° 2 | 0°33 | n.a. | S 25 |
| M26 | 16 4 35 | 1°22'25 | 15°24 | 26°33 | 6°28 | 0°43 | 2°20 | 29° 4 | 12° 8 | 22°28 | 19° 1 | 27°26 | 25°58 | 0°40 | n.a. | M26 |
| T 27 | 16 8 31 | 2°19'34 | 29°32 | 27°28 | 6°44 | 1°22 | 2°33 | 29° 6 | 12°10 | 22°30 | 19° 2 | 27°23 | 25°55 | 0°46 | n.a. | T 27 |
| W28 | 16 12 28 | 3°16'43 | 13♊59 | 28°19 | 6°59 | 2° 2 | 2°46 | 29° 9 | 12°12 | 22°31 | 19° 4 | 27°19 | 25°52 | 0°53 | n.a. | W28 |
| T 29 | 16 16 24 | 4°13'51 | 28°37 | 29° 7 | 7°11 | 2°42 | 2°59 | 29°11 | 12°14 | 22°33 | 19° 5 | 27°14 | 25°49 | 1° 0 | n.a. | T 29 |
| F 30 | 16 20 21 | 5°11'00 | 13♋21 | 29°51 | 7°21 | 3°22 | 3°12 | 29°14 | 12°16 | 22°34 | 19° 7 | 27° 8 | 25°46 | 1° 6 | n.a. | F 30 |
| S 31 | 16 24 17 | 6♊ 8'08 | 28♋ 3 | 0♌31 | 7♋30 | 4♊ 1 | 3♉25 | 29♌16 | 12♌18 | 22♋36 | 19♊ 8 | 27♎ 3 | 25♎43 | 1♒13 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| T 1 | 14n10 | 19n 8 | 4s 7 | 18n53 | 1n32 | 26n51 | 3n25 | 16n27 | 0n17 | 9n29 | 0s58 | 14n12 | 2n17 | 18n11 | 0n44 | 22n 2 | 0n 9 | 22n10 | 1s 2 | 10s46 | 10s37 | 15s46 | | n.a. | T 1 |
| F 2 | 14 29 | 18 52 | 4 48 | 19 34 | 1 39 | 26 52 | 3 23 | 16 40 | 0 17 | 9 34 | 0 58 | 14 12 | 2 17 | 18 11 | 0 44 | 22 2 | 0 9 | 22 10 | 1 2 | 10 46 | 10 36 | 15 45 | | n.a. | F 2 |
| S 3 | 14 48 | 17 24 | 5 11 | 20 13 | 1 46 | 26 53 | 3 22 | 16 53 | 0 18 | 9 39 | 0 58 | 14 12 | 2 17 | 18 11 | 0 44 | 22 2 | 0 9 | 22 10 | 1 2 | 10 45 | 10 35 | 15 44 | | n.a. | S 3 |
| S 4 | 15 6 | 14 51 | 5 15 | 20 49 | 1 51 | 26 54 | 3 20 | 17 5 | 0 19 | 9 44 | 0 58 | 14 12 | 2 17 | 18 10 | 0 44 | 22 2 | 0 9 | 22 10 | 1 2 | 10 45 | 10 34 | 15 42 | | n.a. | S 4 |
| M 5 | 15 24 | 11 26 | 5 0 | 21 22 | 1 57 | 26 54 | 3 18 | 17 18 | 0 19 | 9 49 | 0 58 | 14 12 | 2 16 | 18 10 | 0 44 | 22 2 | 0 9 | 22 10 | 1 2 | 10 45 | 10 33 | 15 41 | | n.a. | M 5 |
| T 6 | 15 42 | 7 23 | 4 27 | 21 53 | 2 1 | 26 54 | 3 16 | 17 30 | 0 20 | 9 54 | 0 58 | 14 11 | 2 16 | 18 10 | 0 44 | 22 2 | 0 9 | 22 11 | 1 2 | 10 45 | 10 32 | 15 40 | | n.a. | T 6 |
| W 7 | 15 59 | 2 58 | 3 38 | 22 22 | 2 5 | 26 53 | 3 14 | 17 42 | 0 20 | 9 59 | 0 58 | 14 11 | 2 16 | 18 10 | 0 44 | 22 1 | 0 9 | 22 11 | 1 2 | 10 46 | 10 30 | 15 38 | | n.a. | W 7 |
| T 8 | 16 17 | 1s33 | 2 37 | 22 48 | 2 7 | 26 52 | 3 12 | 17 54 | 0 21 | 10 4 | 0 58 | 14 11 | 2 16 | 18 9 | 0 44 | 22 1 | 0 9 | 22 11 | 1 1 | 10 46 | 10 29 | 15 37 | | n.a. | T 8 |
| F 9 | 16 34 | 5 57 | 1 28 | 23 11 | 2 10 | 26 50 | 3 9 | 18 6 | 0 21 | 10 9 | 0 58 | 14 11 | 2 16 | 18 9 | 0 44 | 22 1 | 0 9 | 22 11 | 1 1 | 10 46 | 10 28 | 15 36 | | n.a. | F 9 |
| S 10 | 16 51 | 9 59 | 0 16 | 23 32 | 2 11 | 26 47 | 3 6 | 18 17 | 0 22 | 10 14 | 0 58 | 14 10 | 2 15 | 18 9 | 0 44 | 22 1 | 0 9 | 22 11 | 1 1 | 10 47 | 10 27 | 15 35 | | n.a. | S 10 |
| S 11 | 17 7 | 13 27 | 0n57 | 23 51 | 2 12 | 26 44 | 3 3 | 18 29 | 0 23 | 10 19 | 0 58 | 14 10 | 2 15 | 18 8 | 0 44 | 22 1 | 0 9 | 22 12 | 1 1 | 10 47 | 10 26 | 15 33 | | n.a. | S 11 |
| M12 | 17 23 | 16 12 | 2 5 | 24 7 | 2 12 | 26 41 | 2 59 | 18 40 | 0 23 | 10 24 | 0 58 | 14 9 | 2 15 | 18 8 | 0 44 | 22 1 | 0 9 | 22 12 | 1 1 | 10 46 | 10 25 | 15 32 | | n.a. | M12 |
| T 13 | 17 39 | 18 5 | 3 5 | 24 22 | 2 11 | 26 37 | 2 55 | 18 51 | 0 24 | 10 29 | 0 58 | 14 9 | 2 15 | 18 8 | 0 44 | 22 0 | 0 9 | 22 12 | 1 1 | 10 45 | 10 23 | 15 31 | | n.a. | T 13 |
| W14 | 17 55 | 19 4 | 3 56 | 24 34 | 2 10 | 26 33 | 2 51 | 19 2 | 0 24 | 10 34 | 0 58 | 14 8 | 2 15 | 18 7 | 0 44 | 22 0 | 0 9 | 22 12 | 1 1 | 10 44 | 10 22 | 15 29 | | n.a. | W14 |
| T 15 | 18 10 | 19 7 | 4 34 | 24 43 | 2 7 | 26 28 | 2 47 | 19 13 | 0 25 | 10 39 | 0 58 | 14 8 | 2 15 | 18 7 | 0 44 | 22 0 | 0 9 | 22 12 | 1 1 | 10 43 | 10 21 | 15 28 | | n.a. | T 15 |
| F 16 | 18 26 | 18 17 | 5 0 | 24 51 | 2 4 | 26 23 | 2 42 | 19 24 | 0 25 | 10 44 | 0 58 | 14 7 | 2 14 | 18 7 | 0 44 | 22 0 | 0 9 | 22 12 | 1 1 | 10 42 | 10 20 | 15 27 | | n.a. | F 16 |
| S 17 | 18 40 | 16 39 | 5 12 | 24 57 | 2 1 | 26 17 | 2 37 | 19 34 | 0 26 | 10 48 | 0 58 | 14 6 | 2 14 | 18 6 | 0 44 | 22 0 | 0 9 | 22 13 | 1 1 | 10 40 | 10 19 | 15 25 | | n.a. | S 17 |
| S 18 | 18 55 | 14 19 | 5 11 | 25 1 | 1 56 | 26 11 | 2 32 | 19 44 | 0 26 | 10 53 | 0 58 | 14 6 | 2 14 | 18 6 | 0 43 | 21 59 | 0 9 | 22 13 | 1 1 | 10 39 | 10 18 | 15 24 | | n.a. | S 18 |
| M19 | 19 9 | 11 24 | 4 57 | 25 4 | 1 51 | 26 5 | 2 26 | 19 55 | 0 27 | 10 58 | 0 58 | 14 5 | 2 14 | 18 5 | 0 43 | 21 59 | 0 9 | 22 13 | 1 1 | 10 39 | 10 16 | 15 23 | | n.a. | M19 |
| T 20 | 19 23 | 8 0 | 4 29 | 25 4 | 1 46 | 25 58 | 2 21 | 20 5 | 0 27 | 11 3 | 0 58 | 14 4 | 2 14 | 18 5 | 0 43 | 21 59 | 0 9 | 22 13 | 1 1 | 10 39 | 10 15 | 15 21 | | n.a. | T 20 |
| W21 | 19 37 | 4 13 | 3 50 | 25 3 | 1 39 | 25 51 | 2 14 | 20 14 | 0 28 | 11 7 | 0 58 | 14 4 | 2 13 | 18 4 | 0 43 | 21 59 | 0 9 | 22 13 | 1 1 | 10 39 | 10 14 | 15 20 | | n.a. | W21 |
| T 22 | 19 50 | 0 12 | 2 59 | 25 0 | 1 32 | 25 44 | 2 8 | 20 24 | 0 28 | 11 12 | 0 58 | 14 3 | 2 13 | 18 4 | 0 43 | 21 58 | 0 9 | 22 14 | 1 0 | 10 40 | 10 13 | 15 19 | | n.a. | T 22 |
| F 23 | 20 3 | 3n56 | 1 58 | 24 56 | 1 24 | 25 36 | 2 1 | 20 34 | 0 29 | 11 17 | 0 58 | 14 2 | 2 13 | 18 3 | 0 43 | 21 58 | 0 9 | 22 14 | 1 0 | 10 40 | 10 12 | 15 17 | | n.a. | F 23 |
| S 24 | 20 15 | 8 1 | 0 50 | 24 51 | 1 16 | 25 28 | 1 54 | 20 43 | 0 30 | 11 21 | 0 58 | 14 1 | 2 13 | 18 3 | 0 43 | 21 58 | 0 9 | 22 14 | 1 0 | 10 41 | 10 11 | 15 16 | | n.a. | S 24 |
| S 25 | 20 28 | 11 49 | 0s23 | 24 44 | 1 7 | 25 19 | 1 46 | 20 52 | 0 30 | 11 26 | 0 58 | 14 0 | 2 13 | 18 2 | 0 43 | 21 58 | 0 9 | 22 14 | 1 0 | 10 41 | 10 10 | 15 15 | | n.a. | S 25 |
| M26 | 20 40 | 15 6 | 1 36 | 24 36 | 0 57 | 25 10 | 1 38 | 21 1 | 0 31 | 11 30 | 0 58 | 13 59 | 2 12 | 18 2 | 0 43 | 21 58 | 0 9 | 22 14 | 1 0 | 10 40 | 10 8 | 15 13 | | n.a. | M26 |
| T 27 | 20 51 | 17 34 | 2 46 | 24 27 | 0 47 | 25 1 | 1 30 | 21 10 | 0 31 | 11 35 | 0 58 | 13 58 | 2 12 | 18 1 | 0 43 | 21 57 | 0 9 | 22 15 | 1 0 | 10 39 | 10 7 | 15 12 | | n.a. | T 27 |
| W28 | 21 2 | 18 59 | 3 46 | 24 17 | 0 36 | 24 52 | 1 21 | 21 19 | 0 32 | 11 39 | 0 58 | 13 57 | 2 12 | 18 1 | 0 43 | 21 57 | 0 9 | 22 15 | 1 0 | 10 38 | 10 6 | 15 10 | | n.a. | W28 |
| T 29 | 21 13 | 19 9 | 4 33 | 24 6 | 0 24 | 24 42 | 1 12 | 21 27 | 0 32 | 11 44 | 0 58 | 13 56 | 2 12 | 18 0 | 0 43 | 21 57 | 0 9 | 22 15 | 1 0 | 10 36 | 10 5 | 15 9 | | n.a. | T 29 |
| F 30 | 21 24 | 18 1 | 5 1 | 23 54 | 0 12 | 24 32 | 1 3 | 21 35 | 0 33 | 11 48 | 0 58 | 13 55 | 2 12 | 18 0 | 0 43 | 21 57 | 0 10 | 22 15 | 1 0 | 10 34 | 10 4 | 15 8 | | n.a. | F 30 |
| S 31 | 21n34 | 15n43 | 5s10 | 23n42 | 0s 0 | 24n22 | 0n53 | 21n43 | 0n33 | 11n53 | 0s58 | 13n54 | 2n12 | 17n59 | 0n43 | 21n56 | 0n10 | 22n15 | 1s 0 | 10s32 | 10s 3 | 15s 6 | | n.a. | S 31 |

Julian Day Number = 1702185.5, Delta T = 03h05m00s
Ecliptic obliquity = 23°41'57, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°47'26, Lahiri = - 4°40'26 Julian Calendar 1 May 53 BCE == Greg. Calendar 29 Apr. 053 BCE

The year -52 astronomical counting style corresponds to year 053 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 53 BCE
# geocentric

## JUNE 53 BCE (-52) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 28 14 | 7♊ 5'15 | 12♌36 | 1♋ 7 | 7♋36 | 4♊41 | 3♉38 | 29♌19 | 12♌20 | 22♋38 | 19♊10 | 27°R 0 | 25♎39 | 1♒20 | n.a. | S 1 |
| M 2 | 16 32 10 | 8° 2'22 | 26°56 | 1°40 | 7°39 | 5°21 | 3°50 | 29°22 | 12°22 | 22°39 | 19°12 | 26♎57 | 25°36 | 1°27 | n.a. | M 2 |
| T 3 | 16 36 7 | 8°59'29 | 10♍59 | 2° 8 | 7°R41 | 6° 0 | 4° 3 | 29°25 | 12°24 | 22°41 | 19°13 | 26°D57 | 25°33 | 1°33 | n.a. | T 3 |
| W 4 | 16 40 4 | 9°56'36 | 24°46 | 2°31 | 7°40 | 6°40 | 4°16 | 29°28 | 12°26 | 22°43 | 19°15 | 26°58 | 25°30 | 1°40 | n.a. | W 4 |
| T 5 | 16 44 0 | 10°53'42 | 8♎17 | 2°51 | 7°37 | 7°20 | 4°28 | 29°31 | 12°28 | 22°45 | 19°16 | 26°59 | 25°27 | 1°47 | n.a. | T 5 |
| F 6 | 16 47 57 | 11°50'48 | 21°32 | 3° 6 | 7°31 | 7°59 | 4°41 | 29°34 | 12°30 | 22°46 | 19°18 | 27°R 0 | 25°24 | 1°53 | n.a. | F 6 |
| S 7 | 16 51 53 | 12°47'54 | 4♏33 | 3°16 | 7°23 | 8°39 | 4°53 | 29°37 | 12°33 | 22°48 | 19°19 | 27° 0 | 25°20 | 2° 0 | n.a. | S 7 |
| S 8 | 16 55 50 | 13°45'00 | 17°22 | 3°21 | 7°13 | 9°18 | 5° 6 | 29°41 | 12°35 | 22°50 | 19°21 | 26°58 | 25°17 | 2° 7 | n.a. | S 8 |
| M 9 | 16 59 46 | 14°42'06 | 29°59 | 3°R22 | 7° 0 | 9°57 | 5°18 | 29°44 | 12°37 | 22°52 | 19°22 | 26°54 | 25°14 | 2°14 | n.a. | M 9 |
| T 10 | 17 3 43 | 15°39'13 | 12♐26 | 3°18 | 6°45 | 10°37 | 5°31 | 29°48 | 12°40 | 22°54 | 19°24 | 26°48 | 25°11 | 2°20 | n.a. | T 10 |
| W11 | 17 7 40 | 16°36'20 | 24°44 | 3°10 | 6°28 | 11°16 | 5°43 | 29°51 | 12°42 | 22°56 | 19°25 | 26°40 | 25° 8 | 2°27 | n.a. | W11 |
| T 12 | 17 11 36 | 17°33'27 | 6♑52 | 2°57 | 6° 8 | 11°56 | 5°55 | 29°55 | 12°45 | 22°57 | 19°27 | 26°30 | 25° 4 | 2°34 | n.a. | T 12 |
| F 13 | 17 15 33 | 18°30'34 | 18°54 | 2°39 | 5°46 | 12°35 | 6° 7 | 29°59 | 12°47 | 22°59 | 19°29 | 26°21 | 25° 1 | 2°41 | n.a. | F 13 |
| S 14 | 17 19 29 | 19°27'42 | 0♒49 | 2°17 | 5°22 | 13°14 | 6°19 | 0♍ 2 | 12°50 | 23° 1 | 19°30 | 26°12 | 24°58 | 2°47 | n.a. | S 14 |
| S 15 | 17 23 26 | 20°24'51 | 12°41 | 1°51 | 4°56 | 13°53 | 6°31 | 0° 6 | 12°53 | 23° 3 | 19°32 | 26° 4 | 24°55 | 2°54 | n.a. | S 15 |
| M16 | 17 27 22 | 21°22'00 | 24°33 | 1°21 | 4°28 | 14°33 | 6°43 | 0°10 | 12°55 | 23° 5 | 19°33 | 25°59 | 24°52 | 3° 1 | n.a. | M16 |
| T 17 | 17 31 19 | 22°19'09 | 6♓29 | 0°48 | 3°58 | 15°12 | 6°55 | 0°14 | 12°58 | 23° 7 | 19°35 | 25°55 | 24°49 | 3° 7 | n.a. | T 17 |
| W18 | 17 35 15 | 23°16'20 | 18°32 | 0°12 | 3°26 | 15°51 | 7° 7 | 0°19 | 13° 1 | 23° 9 | 19°36 | 25°D54 | 24°45 | 3°14 | n.a. | W18 |
| T 19 | 17 39 12 | 24°13'31 | 0♈49 | 29♊34 | 2°54 | 16°30 | 7°18 | 0°23 | 13° 3 | 23°11 | 19°38 | 25°54 | 24°42 | 3°21 | n.a. | T 19 |
| F 20 | 17 43 9 | 25°10'43 | 13°24 | 28°54 | 2°19 | 17° 9 | 7°30 | 0°27 | 13° 6 | 23°13 | 19°40 | 25°55 | 24°39 | 3°28 | n.a. | F 20 |
| S 21 | 17 47 5 | 26° 7'56 | 26°21 | 28°13 | 1°44 | 17°48 | 7°41 | 0°31 | 13° 9 | 23°15 | 19°41 | 25°R55 | 24°36 | 3°34 | n.a. | S 21 |
| S 22 | 17 51 2 | 27° 5'10 | 9♉44 | 27°31 | 1° 8 | 18°27 | 7°53 | 0°36 | 13°12 | 23°17 | 19°43 | 25°54 | 24°33 | 3°41 | n.a. | S 22 |
| M23 | 17 54 58 | 28° 2'25 | 23°35 | 26°50 | 0°32 | 19° 6 | 8° 4 | 0°41 | 13°15 | 23°19 | 19°44 | 25°52 | 24°30 | 3°48 | n.a. | M23 |
| T 24 | 17 58 55 | 28°59'41 | 7♊54 | 26°11 | 29♊54 | 19°45 | 8°15 | 0°45 | 13°18 | 23°21 | 19°46 | 25°46 | 24°26 | 3°55 | n.a. | T 24 |
| W25 | 18 2 51 | 29°56'58 | 22°36 | 25°32 | 29°17 | 20°24 | 8°26 | 0°50 | 13°21 | 23°23 | 19°47 | 25°39 | 24°23 | 4° 1 | n.a. | W25 |
| T 26 | 18 6 48 | 0♋54'15 | 7♋35 | 24°57 | 28°40 | 21° 3 | 8°37 | 0°55 | 13°24 | 23°25 | 19°49 | 25°30 | 24°20 | 4° 8 | n.a. | T 26 |
| F 27 | 18 10 44 | 1°51'34 | 22°42 | 24°24 | 28° 3 | 21°42 | 8°48 | 0°59 | 13°27 | 23°27 | 19°50 | 25°20 | 24°17 | 4°15 | n.a. | F 27 |
| S 28 | 18 14 41 | 2°48'53 | 7♌46 | 23°56 | 27°27 | 22°21 | 8°59 | 1° 4 | 13°30 | 23°29 | 19°52 | 25°11 | 24°14 | 4°21 | n.a. | S 28 |
| S 29 | 18 18 38 | 3°46'12 | 22°38 | 23°32 | 26°52 | 23° 0 | 9°10 | 1° 9 | 13°33 | 23°32 | 19°53 | 25° 4 | 24°10 | 4°28 | n.a. | S 29 |
| M30 | 18 22 34 | 4♋43'32 | 7♍11 | 23♊12 | 26♊17 | 23♊39 | 9♉21 | 1♍14 | 13♌36 | 23♋34 | 19♊55 | 24♎59 | 24♎ 7 | 4♒35 | n.a. | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21n44 | 12n26 | 4s59 | 23n28 | 0s13 | 24n11 | 0n42 | 21n51 | 0n34 | 11n57 | 0s58 | 13n53 | 2n11 | 17n58 | 0n43 | 21n56 | 0n10 | 22n16 | 1s 0 | 10s31 | 10s 1 | 15s 5 | | n.a. |
| M 2 | 21 53 | 8 28 | 4 29 | 23 15 | 0 27 | 24 0 | 0 32 | 21 59 | 0 34 | 12 2 | 0 58 | 13 52 | 2 11 | 17 58 | 0 43 | 21 56 | 0 10 | 22 16 | 1 0 | 10 30 | 10 0 | 15 4 | | n.a. |
| T 3 | 22 2 | 4 5 | 3 43 | 23 0 | 0 41 | 23 49 | 0 21 | 22 7 | 0 35 | 12 6 | 0 58 | 13 51 | 2 11 | 17 57 | 0 43 | 21 55 | 0 10 | 22 16 | 1 0 | 10 30 | 9 59 | 15 2 | | n.a. |
| W 4 | 22 11 | 0s26 | 2 46 | 22 45 | 0 55 | 23 38 | 0 10 | 22 14 | 0 35 | 12 10 | 0 58 | 13 49 | 2 11 | 17 57 | 0 43 | 21 55 | 0 10 | 22 16 | 1 0 | 10 30 | 9 58 | 15 1 | | n.a. |
| T 5 | 22 19 | 4 50 | 1 40 | 22 30 | 1 10 | 23 27 | 0s 2 | 22 21 | 0 36 | 12 14 | 0 58 | 13 48 | 2 11 | 17 56 | 0 43 | 21 55 | 0 10 | 22 16 | 1 0 | 10 30 | 9 57 | 15 0 | | n.a. |
| F 6 | 22 27 | 8 56 | 0 30 | 22 15 | 1 25 | 23 15 | 0 14 | 22 28 | 0 36 | 12 19 | 0 58 | 13 47 | 2 11 | 17 55 | 0 43 | 21 55 | 0 10 | 22 16 | 0 59 | 10 31 | 9 55 | 14 58 | | n.a. |
| S 7 | 22 35 | 12 32 | 0n41 | 22 0 | 1 40 | 23 3 | 0 27 | 22 35 | 0 37 | 12 23 | 0 58 | 13 46 | 2 10 | 17 55 | 0 43 | 21 54 | 0 10 | 22 17 | 0 59 | 10 31 | 9 54 | 14 57 | | n.a. |
| S 8 | 22 42 | 15 29 | 1 48 | 21 44 | 1 55 | 22 51 | 0 39 | 22 42 | 0 37 | 12 27 | 0 58 | 13 44 | 2 10 | 17 54 | 0 43 | 21 54 | 0 10 | 22 17 | 0 59 | 10 30 | 9 53 | 14 55 | | n.a. |
| M 9 | 22 49 | 17 38 | 2 48 | 21 29 | 2 11 | 22 38 | 0 52 | 22 48 | 0 38 | 12 31 | 0 58 | 13 43 | 2 10 | 17 53 | 0 43 | 21 54 | 0 10 | 22 17 | 0 59 | 10 29 | 9 52 | 14 54 | | n.a. |
| T 10 | 22 55 | 18 54 | 3 40 | 21 14 | 2 26 | 22 26 | 1 6 | 22 55 | 0 38 | 12 35 | 0 58 | 13 41 | 2 10 | 17 52 | 0 43 | 21 53 | 0 10 | 22 17 | 0 59 | 10 26 | 9 51 | 14 53 | | n.a. |
| W11 | 23 1 | 19 16 | 4 20 | 20 59 | 2 41 | 22 13 | 1 19 | 23 1 | 0 39 | 12 39 | 0 58 | 13 40 | 2 10 | 17 52 | 0 43 | 21 53 | 0 10 | 22 17 | 0 59 | 10 23 | 9 50 | 14 51 | | n.a. |
| T 12 | 23 7 | 18 43 | 4 48 | 20 44 | 2 56 | 22 1 | 1 33 | 23 7 | 0 39 | 12 43 | 0 58 | 13 39 | 2 10 | 17 51 | 0 43 | 21 53 | 0 10 | 22 18 | 0 59 | 10 20 | 9 48 | 14 50 | | n.a. |
| F 13 | 23 12 | 17 21 | 5 3 | 20 30 | 3 10 | 21 48 | 1 47 | 23 12 | 0 40 | 12 47 | 0 58 | 13 37 | 2 9 | 17 50 | 0 43 | 21 52 | 0 10 | 22 18 | 0 59 | 10 17 | 9 47 | 14 48 | | n.a. |
| S 14 | 23 17 | 15 14 | 5 5 | 20 17 | 3 24 | 21 35 | 2 1 | 23 18 | 0 40 | 12 51 | 0 58 | 13 36 | 2 9 | 17 49 | 0 43 | 21 52 | 0 10 | 22 18 | 0 59 | 10 13 | 9 46 | 14 47 | | n.a. |
| S 15 | 23 21 | 12 30 | 4 53 | 20 4 | 3 37 | 21 21 | 2 15 | 23 23 | 0 41 | 12 55 | 0 58 | 13 34 | 2 9 | 17 49 | 0 43 | 21 52 | 0 10 | 22 18 | 0 59 | 10 11 | 9 45 | 14 46 | | n.a. |
| M16 | 23 25 | 9 15 | 4 29 | 19 52 | 3 50 | 21 8 | 2 29 | 23 28 | 0 41 | 12 59 | 0 58 | 13 32 | 2 9 | 17 48 | 0 43 | 21 52 | 0 10 | 22 18 | 0 59 | 10 8 | 9 44 | 14 44 | | n.a. |
| T 17 | 23 28 | 5 38 | 3 53 | 19 40 | 4 1 | 20 55 | 2 43 | 23 33 | 0 42 | 13 3 | 0 58 | 13 31 | 2 9 | 17 47 | 0 43 | 21 51 | 0 10 | 22 19 | 0 59 | 10 7 | 9 43 | 14 43 | | n.a. |
| W18 | 23 32 | 1 44 | 3 6 | 19 30 | 4 12 | 20 42 | 2 58 | 23 38 | 0 42 | 13 7 | 0 58 | 13 29 | 2 9 | 17 46 | 0 43 | 21 51 | 0 10 | 22 19 | 0 59 | 10 7 | 9 41 | 14 42 | | n.a. |
| T 19 | 23 34 | 2n19 | 2 10 | 19 21 | 4 21 | 20 28 | 3 12 | 23 43 | 0 42 | 13 11 | 0 59 | 13 27 | 2 8 | 17 45 | 0 43 | 21 51 | 0 10 | 22 19 | 0 59 | 10 7 | 9 40 | 14 40 | | n.a. |
| F 20 | 23 37 | 6 22 | 1 7 | 19 13 | 4 28 | 20 15 | 3 25 | 23 47 | 0 43 | 13 14 | 0 59 | 13 26 | 2 8 | 17 45 | 0 42 | 21 50 | 0 10 | 22 19 | 0 59 | 10 7 | 9 39 | 14 39 | | n.a. |
| S 21 | 23 38 | 10 14 | 0s 2 | 19 7 | 4 34 | 20 2 | 3 39 | 23 51 | 0 43 | 13 18 | 0 59 | 13 24 | 2 8 | 17 44 | 0 42 | 21 50 | 0 10 | 22 19 | 0 59 | 10 7 | 9 38 | 14 37 | | n.a. |
| S 22 | 23 40 | 13 44 | 1 13 | 19 2 | 4 39 | 19 49 | 3 52 | 23 55 | 0 44 | 13 22 | 0 59 | 13 22 | 2 8 | 17 43 | 0 42 | 21 50 | 0 10 | 22 19 | 0 58 | 10 7 | 9 37 | 14 36 | | n.a. |
| M23 | 23 41 | 16 35 | 2 22 | 18 58 | 4 42 | 19 36 | 4 5 | 23 59 | 0 44 | 13 25 | 0 59 | 13 21 | 2 8 | 17 42 | 0 42 | 21 49 | 0 10 | 22 20 | 0 58 | 10 6 | 9 36 | 14 35 | | n.a. |
| T 24 | 23 42 | 18 30 | 3 24 | 18 56 | 4 43 | 19 24 | 4 18 | 24 3 | 0 45 | 13 29 | 0 59 | 13 19 | 2 8 | 17 41 | 0 42 | 21 49 | 0 10 | 22 20 | 0 58 | 10 4 | 9 34 | 14 33 | | n.a. |
| W25 | 23 42 | 19 15 | 4 14 | 18 55 | 4 43 | 19 12 | 4 30 | 24 6 | 0 45 | 13 33 | 0 59 | 13 17 | 2 8 | 17 40 | 0 42 | 21 48 | 0 10 | 22 20 | 0 58 | 10 1 | 9 33 | 14 32 | | n.a. |
| T 26 | 23 42 | 18 41 | 4 48 | 18 56 | 4 40 | 19 0 | 4 42 | 24 9 | 0 46 | 13 36 | 0 59 | 13 15 | 2 7 | 17 39 | 0 42 | 21 48 | 0 10 | 22 20 | 0 58 | 9 58 | 9 32 | 14 30 | | n.a. |
| F 27 | 23 41 | 16 48 | 5 2 | 18 58 | 4 37 | 18 48 | 4 53 | 24 12 | 0 46 | 13 40 | 0 59 | 13 13 | 2 7 | 17 39 | 0 42 | 21 48 | 0 10 | 22 20 | 0 58 | 9 54 | 9 31 | 14 29 | | n.a. |
| S 28 | 23 40 | 13 46 | 4 56 | 19 3 | 4 31 | 18 37 | 5 3 | 24 15 | 0 47 | 13 43 | 0 59 | 13 11 | 2 7 | 17 38 | 0 42 | 21 47 | 0 10 | 22 20 | 0 58 | 9 51 | 9 30 | 14 27 | | n.a. |
| S 29 | 23 39 | 9 53 | 4 29 | 19 8 | 4 24 | 18 26 | 5 13 | 24 18 | 0 47 | 13 46 | 0 59 | 13 9 | 2 7 | 17 37 | 0 42 | 21 47 | 0 10 | 22 21 | 0 58 | 9 48 | 9 28 | 14 26 | | n.a. |
| M30 | 23n37 | 5n29 | 3s45 | 19n16 | 4s16 | 18n16 | 5s23 | 24n20 | 0n48 | 13n50 | 0s59 | 13n 7 | 2n 7 | 17n36 | 0n42 | 21n47 | 0n10 | 22n21 | 0s58 | 9s46 | 9s27 | 14s25 | | n.a. |

Julian Day Number = 1702216.5, Delta T = 03h04m59s
Ecliptic obliquity = 23°41'56, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°47'22, Lahiri = - 4°40'22 Julian Calendar 1 June 53 BCE == Greg. Calendar 30 May 053 BCE

The year -52 astronomical counting style corresponds to year 053 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 53 BCE
# geocentric

## JULY 53 BCE (-52) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 26 31 | 5♋40'53 | 21♍21 | 22°R58 | 25°R44 | 24♊18 | 9♉31 | 1♍19 | 13♌39 | 23♋36 | 19♊56 | 24°R56 | 24♎ 4 | 4♒42 | n.a. | T 1 |
| W 2 | 18 30 27 | 6°38'14 | 5♎ 8 | 22♊50 | 25♊12 | 24°56 | 9°42 | 1°25 | 13°42 | 23°38 | 19°58 | 24°D56 | 24° 1 | 4°48 | n.a. | W 2 |
| T 3 | 18 34 24 | 7°35'36 | 18°32 | 22°D48 | 24°41 | 25°35 | 9°52 | 1°30 | 13°45 | 23°40 | 19°59 | 24°R56 | 23°58 | 4°55 | n.a. | T 3 |
| F 4 | 18 38 20 | 8°32'59 | 1♏36 | 22°52 | 24°12 | 26°14 | 10° 2 | 1°35 | 13°49 | 23°42 | 20° 1 | 24♎56 | 23°55 | 5° 2 | n.a. | F 4 |
| S 5 | 18 42 17 | 9°30'23 | 14°23 | 23° 2 | 23°45 | 26°52 | 10°13 | 1°41 | 13°52 | 23°44 | 20° 2 | 24°54 | 23°51 | 5° 8 | n.a. | S 5 |
| S 6 | 18 46 13 | 10°27'47 | 26°56 | 23°19 | 23°20 | 27°31 | 10°23 | 1°46 | 13°55 | 23°47 | 20° 4 | 24°51 | 23°48 | 5°15 | n.a. | S 6 |
| M 7 | 18 50 10 | 11°25'13 | 9♐19 | 23°42 | 22°58 | 28°10 | 10°33 | 1°51 | 13°58 | 23°49 | 20° 5 | 24°44 | 23°45 | 5°22 | n.a. | M 7 |
| T 8 | 18 54 7 | 12°22'39 | 21°32 | 24°12 | 22°37 | 28°48 | 10°42 | 1°57 | 14° 2 | 23°51 | 20° 7 | 24°35 | 23°42 | 5°29 | n.a. | T 8 |
| W 9 | 18 58 3 | 13°20'07 | 3♑39 | 24°48 | 22°19 | 29°27 | 10°52 | 2° 3 | 14° 5 | 23°53 | 20° 8 | 24°23 | 23°39 | 5°35 | n.a. | W 9 |
| T 10 | 19 2 0 | 14°17'36 | 15°39 | 25°31 | 22° 3 | 0♋ 6 | 11° 2 | 2° 8 | 14° 8 | 23°55 | 20°10 | 24°10 | 23°36 | 5°42 | n.a. | T 10 |
| F 11 | 19 5 56 | 15°15'05 | 27°35 | 26°20 | 21°49 | 0°44 | 11°11 | 2°14 | 14°12 | 23°58 | 20°11 | 23°57 | 23°32 | 5°49 | n.a. | F 11 |
| S 12 | 19 9 53 | 16°12'37 | 9♒28 | 27°16 | 21°38 | 1°23 | 11°21 | 2°20 | 14°15 | 24° 0 | 20°13 | 23°44 | 23°29 | 5°56 | n.a. | S 12 |
| S 13 | 19 13 49 | 17°10'09 | 21°19 | 28°18 | 21°29 | 2° 1 | 11°30 | 2°26 | 14°19 | 24° 2 | 20°14 | 23°32 | 23°26 | 6° 2 | n.a. | S 13 |
| M14 | 19 17 46 | 18° 7'43 | 3♓11 | 29°26 | 21°22 | 2°40 | 11°39 | 2°31 | 14°22 | 24° 4 | 20°16 | 23°23 | 23°23 | 6° 9 | n.a. | M14 |
| T 15 | 19 21 42 | 19° 5'18 | 15° 7 | 0♋39 | 21°18 | 3°18 | 11°48 | 2°37 | 14°26 | 24° 6 | 20°17 | 23°17 | 23°20 | 6°16 | n.a. | T 15 |
| W16 | 19 25 39 | 20° 2'55 | 27°10 | 1°59 | 21°D16 | 3°57 | 11°57 | 2°43 | 14°29 | 24° 9 | 20°18 | 23°14 | 23°16 | 6°22 | n.a. | W16 |
| T 17 | 19 29 36 | 21° 0'34 | 9♈25 | 3°23 | 21°17 | 4°35 | 12° 6 | 2°49 | 14°33 | 24°11 | 20°20 | 23°12 | 23°13 | 6°29 | n.a. | T 17 |
| F 18 | 19 33 32 | 21°58'14 | 21°56 | 4°53 | 21°20 | 5°13 | 12°15 | 2°56 | 14°36 | 24°13 | 20°21 | 23°12 | 23°10 | 6°36 | n.a. | F 18 |
| S 19 | 19 37 29 | 22°55'56 | 4♉49 | 6°27 | 21°25 | 5°52 | 12°23 | 3° 2 | 14°40 | 24°15 | 20°22 | 23°12 | 23° 7 | 6°43 | n.a. | S 19 |
| S 20 | 19 41 25 | 23°53'40 | 18° 8 | 8° 5 | 21°33 | 6°30 | 12°32 | 3° 8 | 14°43 | 24°18 | 20°24 | 23°10 | 23° 4 | 6°49 | n.a. | S 20 |
| M21 | 19 45 22 | 24°51'26 | 1♊55 | 9°47 | 21°42 | 7° 9 | 12°40 | 3°14 | 14°47 | 24°20 | 20°25 | 23° 7 | 23° 1 | 6°56 | n.a. | M21 |
| T 22 | 19 49 18 | 25°49'13 | 16°12 | 11°33 | 21°54 | 7°47 | 12°48 | 3°20 | 14°50 | 24°22 | 20°26 | 23° 1 | 22°57 | 7° 3 | n.a. | T 22 |
| W23 | 19 53 15 | 26°47'02 | 0♋56 | 13°22 | 22° 8 | 8°25 | 12°56 | 3°27 | 14°54 | 24°24 | 20°28 | 22°53 | 22°54 | 7° 9 | n.a. | W23 |
| T 24 | 19 57 11 | 27°44'53 | 16° 2 | 15°13 | 22°23 | 9° 3 | 13° 4 | 3°33 | 14°58 | 24°27 | 20°29 | 22°43 | 22°51 | 7°16 | n.a. | T 24 |
| F 25 | 20 1 8 | 28°42'46 | 1♌19 | 17° 6 | 22°41 | 9°42 | 13°12 | 3°40 | 15° 1 | 24°29 | 20°30 | 22°32 | 22°48 | 7°23 | n.a. | F 25 |
| S 26 | 20 5 5 | 29°40'40 | 16°37 | 19° 2 | 23° 0 | 10°20 | 13°19 | 3°46 | 15° 5 | 24°31 | 20°32 | 22°21 | 22°45 | 7°30 | n.a. | S 26 |
| S 27 | 20 9 1 | 0♌38'35 | 1♍44 | 20°58 | 23°22 | 10°58 | 13°27 | 3°53 | 15° 9 | 24°33 | 20°33 | 22°13 | 22°42 | 7°36 | n.a. | S 27 |
| M28 | 20 12 58 | 1°36'32 | 16°31 | 22°56 | 23°45 | 11°36 | 13°34 | 3°59 | 15°12 | 24°35 | 20°34 | 22° 7 | 22°38 | 7°43 | n.a. | M28 |
| T 29 | 20 16 54 | 2°34'30 | 0♎53 | 24°54 | 24° 9 | 12°15 | 13°41 | 4° 6 | 15°16 | 24°38 | 20°35 | 22° 3 | 22°35 | 7°50 | n.a. | T 29 |
| W30 | 20 20 51 | 3°32'30 | 14°47 | 26°53 | 24°36 | 12°53 | 13°48 | 4°12 | 15°20 | 24°40 | 20°37 | 22° 2 | 22°32 | 7°56 | n.a. | W30 |
| T 31 | 20 24 47 | 4♌30'31 | 28♎13 | 28♋52 | 25♊ 4 | 13♋31 | 13♉55 | 4♍19 | 15♌23 | 24♋42 | 20♊38 | 22♎ 2 | 22♎29 | 8♒ 3 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 23n35 | 0n53 | 2s48 | 19n25 | 4s 6 | 18n 7 | 5s31 | 24n22 | 0n48 | 13n53 | 0s59 | 13n 6 | 2n 7 | 17n35 | 0n42 | 21n46 | 0n10 | 22n21 | 0s58 | 9s45 | 9s26 | 14s23 | | | n.a. |
| W 2 | 23 32 | 3s38 | 1 43 | 19 35 | 3 56 | 17 58 | 5 39 | 24 24 | 0 48 | 13 56 | 0 59 | 13 4 | 2 7 | 17 34 | 0 42 | 21 46 | 0 10 | 22 21 | 0 58 | 9 45 | 9 25 | 14 22 | | | n.a. |
| T 3 | 23 29 | 7 52 | 0 34 | 19 46 | 3 44 | 17 49 | 5 47 | 24 26 | 0 49 | 14 0 | 0 59 | 13 2 | 2 7 | 17 33 | 0 42 | 21 46 | 0 10 | 22 21 | 0 58 | 9 45 | 9 24 | 14 20 | | | n.a. |
| F 4 | 23 25 | 11 36 | 0n35 | 19 59 | 3 31 | 17 41 | 5 53 | 24 28 | 0 49 | 14 3 | 0 59 | 12 59 | 2 6 | 17 32 | 0 42 | 21 45 | 0 10 | 22 21 | 0 58 | 9 45 | 9 23 | 14 19 | | | n.a. |
| S 5 | 23 21 | 14 43 | 1 41 | 20 13 | 3 18 | 17 34 | 5 59 | 24 29 | 0 50 | 14 6 | 0 59 | 12 57 | 2 6 | 17 31 | 0 42 | 21 45 | 0 10 | 22 22 | 0 58 | 9 45 | 9 21 | 14 17 | | | n.a. |
| S 6 | 23 17 | 17 5 | 2 41 | 20 28 | 3 4 | 17 28 | 6 4 | 24 31 | 0 50 | 14 9 | 0 59 | 12 55 | 2 6 | 17 30 | 0 42 | 21 45 | 0 10 | 22 22 | 0 58 | 9 43 | 9 20 | 14 16 | | | n.a. |
| M 7 | 23 12 | 18 36 | 3 32 | 20 44 | 2 49 | 17 22 | 6 9 | 24 32 | 0 51 | 14 12 | 1 0 | 12 53 | 2 6 | 17 29 | 0 42 | 21 44 | 0 10 | 22 22 | 0 58 | 9 41 | 9 19 | 14 15 | | | n.a. |
| T 8 | 23 7 | 19 14 | 4 12 | 21 0 | 2 34 | 17 17 | 6 13 | 24 33 | 0 51 | 14 15 | 1 0 | 12 51 | 2 6 | 17 28 | 0 42 | 21 44 | 0 10 | 22 22 | 0 58 | 9 38 | 9 18 | 14 13 | | | n.a. |
| W 9 | 23 1 | 18 58 | 4 41 | 21 17 | 2 19 | 17 13 | 6 16 | 24 33 | 0 52 | 14 18 | 1 0 | 12 49 | 2 6 | 17 27 | 0 42 | 21 43 | 0 10 | 22 22 | 0 58 | 9 33 | 9 17 | 14 12 | | | n.a. |
| T 10 | 22 55 | 17 51 | 4 57 | 21 34 | 2 3 | 17 10 | 6 18 | 24 34 | 0 52 | 14 21 | 1 0 | 12 47 | 2 6 | 17 26 | 0 42 | 21 43 | 0 10 | 22 22 | 0 58 | 9 28 | 9 15 | 14 10 | | | n.a. |
| F 11 | 22 49 | 15 59 | 4 59 | 21 52 | 1 47 | 17 7 | 6 21 | 24 34 | 0 52 | 14 24 | 1 0 | 12 45 | 2 6 | 17 25 | 0 42 | 21 43 | 0 10 | 22 23 | 0 57 | 9 23 | 9 14 | 14 9 | | | n.a. |
| S 12 | 22 42 | 13 26 | 4 49 | 22 8 | 1 32 | 17 5 | 6 22 | 24 34 | 0 53 | 14 27 | 1 0 | 12 42 | 2 6 | 17 24 | 0 42 | 21 42 | 0 10 | 22 23 | 0 57 | 9 18 | 9 13 | 14 7 | | | n.a. |
| S 13 | 22 35 | 10 21 | 4 26 | 22 25 | 1 16 | 17 3 | 6 23 | 24 34 | 0 53 | 14 30 | 1 0 | 12 40 | 2 5 | 17 23 | 0 42 | 21 42 | 0 10 | 22 23 | 0 57 | 9 14 | 9 12 | 14 6 | | | n.a. |
| M14 | 22 27 | 6 51 | 3 52 | 22 41 | 1 1 | 17 2 | 6 23 | 24 34 | 0 54 | 14 33 | 1 0 | 12 38 | 2 5 | 17 22 | 0 42 | 21 42 | 0 10 | 22 23 | 0 57 | 9 11 | 9 11 | 14 5 | | | n.a. |
| T 15 | 22 19 | 3 4 | 3 7 | 22 56 | 0 46 | 17 2 | 6 23 | 24 34 | 0 54 | 14 35 | 1 0 | 12 36 | 2 5 | 17 21 | 0 42 | 21 41 | 0 10 | 22 23 | 0 57 | 9 9 | 9 9 | 14 3 | | | n.a. |
| W16 | 22 11 | 0n54 | 2 13 | 23 10 | 0 31 | 17 3 | 6 23 | 24 33 | 0 55 | 14 38 | 1 0 | 12 33 | 2 5 | 17 20 | 0 42 | 21 41 | 0 10 | 22 23 | 0 57 | 9 7 | 9 8 | 14 2 | | | n.a. |
| T 17 | 22 2 | 4 53 | 1 12 | 23 22 | 0 17 | 17 4 | 6 22 | 24 32 | 0 55 | 14 41 | 1 0 | 12 31 | 2 5 | 17 19 | 0 42 | 21 40 | 0 10 | 22 24 | 0 57 | 9 7 | 9 7 | 14 0 | | | n.a. |
| F 18 | 21 53 | 8 44 | 0 7 | 23 33 | 0 4 | 17 5 | 6 20 | 24 31 | 0 55 | 14 43 | 1 0 | 12 29 | 2 5 | 17 18 | 0 42 | 21 40 | 0 10 | 22 24 | 0 57 | 9 7 | 9 6 | 13 59 | | | n.a. |
| S 19 | 21 44 | 12 19 | 1s 1 | 23 42 | 0n 9 | 17 7 | 6 18 | 24 30 | 0 56 | 14 46 | 1 0 | 12 26 | 2 5 | 17 17 | 0 42 | 21 40 | 0 10 | 22 24 | 0 57 | 9 7 | 9 5 | 13 57 | | | n.a. |
| S 20 | 21 34 | 15 22 | 2 8 | 23 48 | 0 22 | 17 10 | 6 16 | 24 28 | 0 56 | 14 48 | 1 1 | 12 24 | 2 5 | 17 16 | 0 42 | 21 39 | 0 10 | 22 24 | 0 57 | 9 6 | 9 4 | 13 56 | | | n.a. |
| M21 | 21 23 | 17 41 | 3 9 | 23 53 | 0 33 | 17 13 | 6 14 | 24 27 | 0 57 | 14 51 | 1 1 | 12 22 | 2 5 | 17 15 | 0 42 | 21 39 | 0 10 | 22 24 | 0 57 | 9 5 | 9 2 | 13 54 | | | n.a. |
| T 22 | 21 13 | 18 58 | 4 1 | 23 55 | 0 44 | 17 17 | 6 11 | 24 25 | 0 57 | 14 53 | 1 1 | 12 19 | 2 5 | 17 14 | 0 42 | 21 38 | 0 10 | 22 24 | 0 57 | 9 3 | 9 1 | 13 53 | | | n.a. |
| W23 | 21 2 | 19 3 | 4 39 | 23 55 | 0 54 | 17 21 | 6 8 | 24 23 | 0 58 | 14 55 | 1 1 | 12 17 | 2 5 | 17 13 | 0 42 | 21 38 | 0 10 | 22 24 | 0 57 | 8 59 | 9 0 | 13 51 | | | n.a. |
| T 24 | 20 50 | 17 47 | 4 58 | 23 52 | 1 3 | 17 25 | 6 4 | 24 21 | 0 58 | 14 58 | 1 1 | 12 15 | 2 5 | 17 11 | 0 42 | 21 38 | 0 10 | 22 25 | 0 57 | 8 56 | 8 59 | 13 50 | | | n.a. |
| F 25 | 20 38 | 15 15 | 4 57 | 23 46 | 1 11 | 17 30 | 6 1 | 24 19 | 0 58 | 15 0 | 1 1 | 12 12 | 2 4 | 17 10 | 0 42 | 21 37 | 0 10 | 22 25 | 0 57 | 8 52 | 8 58 | 13 49 | | | n.a. |
| S 26 | 20 26 | 11 40 | 4 34 | 23 38 | 1 19 | 17 35 | 5 57 | 24 16 | 0 59 | 15 2 | 1 1 | 12 10 | 2 4 | 17 9 | 0 42 | 21 37 | 0 10 | 22 25 | 0 57 | 8 48 | 8 56 | 13 47 | | | n.a. |
| S 27 | 20 14 | 7 21 | 3 53 | 23 27 | 1 25 | 17 40 | 5 52 | 24 13 | 0 59 | 15 4 | 1 1 | 12 7 | 2 4 | 17 8 | 0 42 | 21 37 | 0 10 | 22 25 | 0 57 | 8 44 | 8 55 | 13 46 | | | n.a. |
| M28 | 20 1 | 2 41 | 2 56 | 23 13 | 1 31 | 17 45 | 5 48 | 24 10 | 1 0 | 15 7 | 1 1 | 12 5 | 2 4 | 17 7 | 0 42 | 21 36 | 0 10 | 22 25 | 0 57 | 8 42 | 8 54 | 13 44 | | | n.a. |
| T 29 | 19 48 | 2s 1 | 1 49 | 22 57 | 1 35 | 17 51 | 5 44 | 24 7 | 1 0 | 15 9 | 1 1 | 12 2 | 2 4 | 17 6 | 0 42 | 21 36 | 0 10 | 22 25 | 0 57 | 8 41 | 8 53 | 13 43 | | | n.a. |
| W30 | 19 34 | 6 28 | 0 38 | 22 38 | 1 39 | 17 57 | 5 39 | 24 4 | 1 0 | 15 11 | 1 1 | 12 0 | 2 4 | 17 5 | 0 42 | 21 35 | 0 10 | 22 25 | 0 57 | 8 40 | 8 52 | 13 41 | | | n.a. |
| T 31 | 19n21 | 10s27 | 0n33 | 22n17 | 1n42 | 18n 3 | 5s34 | 24n 1 | 1n 1 | 15n13 | 1s 2 | 11n57 | 2n 4 | 17n 4 | 0n42 | 21n35 | 0n10 | 22n25 | 0s56 | 8s40 | 8s50 | 13s40 | | | n.a. |

Julian Day Number = 1702246.5, Delta T = 03h04m58s
Ecliptic obliquity = 23°41'56, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°47'18, Lahiri = - 4°40'18 Julian Calendar 1 July 53 BCE == Greg. Calendar 29 June 053 BCE

The year -52 astronomical counting style corresponds to year 053 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 53 BCE
# geocentric

## AUGUST 53 BCE (-52) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 20 28 44 | 5♌28'34 | 11♏16 | 0♌50 | 25♊33 | 14♋ 9 | 14♉ 2 | 4♍26 | 15♌27 | 24♋44 | 20♊39 | 22°R 2 | 22♎26 | 8♒10 | n.a. | F 1 |
| S 2 | 20 32 40 | 6°26'38 | 23°58 | 2°49 | 26° 4 | 14°47 | 14° 8 | 4°33 | 15°31 | 24°46 | 20°40 | 22♎ 1 | 22°22 | 8°17 | n.a. | S 2 |
| S 3 | 20 36 37 | 7°24'44 | 6♐24 | 4°46 | 26°36 | 15°25 | 14°15 | 4°39 | 15°35 | 24°49 | 20°41 | 21°57 | 22°19 | 8°23 | n.a. | S 3 |
| M 4 | 20 40 34 | 8°22'51 | 18°38 | 6°43 | 27°10 | 16° 3 | 14°21 | 4°46 | 15°38 | 24°51 | 20°42 | 21°52 | 22°16 | 8°30 | n.a. | M 4 |
| T 5 | 20 44 30 | 9°21'00 | 0♑42 | 8°40 | 27°45 | 16°41 | 14°27 | 4°53 | 15°42 | 24°53 | 20°44 | 21°43 | 22°13 | 8°37 | n.a. | T 5 |
| W 6 | 20 48 27 | 10°19'11 | 12°41 | 10°35 | 28°21 | 17°19 | 14°33 | 5° 0 | 15°46 | 24°55 | 20°45 | 21°32 | 22°10 | 8°44 | n.a. | W 6 |
| T 7 | 20 52 23 | 11°17'23 | 24°36 | 12°30 | 28°59 | 17°57 | 14°39 | 5° 7 | 15°50 | 24°57 | 20°46 | 21°20 | 22° 7 | 8°50 | n.a. | T 7 |
| F 8 | 20 56 20 | 12°15'38 | 6♒29 | 14°23 | 29°38 | 18°35 | 14°44 | 5°14 | 15°53 | 24°59 | 20°47 | 21° 7 | 22° 3 | 8°57 | n.a. | F 8 |
| S 9 | 21 0 16 | 13°13'54 | 18°21 | 16°15 | 0♋18 | 19°13 | 14°50 | 5°21 | 15°57 | 25° 2 | 20°48 | 20°54 | 22° 0 | 9° 4 | n.a. | S 9 |
| S 10 | 21 4 13 | 14°12'11 | 0♓14 | 18° 7 | 0°58 | 19°51 | 14°55 | 5°28 | 16° 1 | 25° 4 | 20°49 | 20°44 | 21°57 | 9°10 | n.a. | S 10 |
| M11 | 21 8 9 | 15°10'31 | 12°10 | 19°57 | 1°40 | 20°29 | 15° 0 | 5°35 | 16° 5 | 25° 6 | 20°50 | 20°35 | 21°54 | 9°17 | n.a. | M11 |
| T 12 | 21 12 6 | 16° 8'53 | 24°10 | 21°46 | 2°24 | 21° 7 | 15° 5 | 5°42 | 16° 9 | 25° 8 | 20°51 | 20°29 | 21°51 | 9°24 | n.a. | T 12 |
| W13 | 21 16 3 | 17° 7'17 | 6♈18 | 23°34 | 3° 8 | 21°45 | 15°10 | 5°49 | 16°12 | 25°10 | 20°52 | 20°26 | 21°47 | 9°31 | n.a. | W13 |
| T 14 | 21 19 59 | 18° 5'43 | 18°36 | 25°21 | 3°53 | 22°23 | 15°15 | 5°56 | 16°16 | 25°12 | 20°53 | 20°D25 | 21°44 | 9°37 | n.a. | T 14 |
| F 15 | 21 23 56 | 19° 4'12 | 1♉ 9 | 27° 6 | 4°38 | 23° 0 | 15°19 | 6° 3 | 16°20 | 25°14 | 20°54 | 20°25 | 21°41 | 9°44 | n.a. | F 15 |
| S 16 | 21 27 52 | 20° 2'42 | 14° 0 | 28°51 | 5°25 | 23°38 | 15°23 | 6°10 | 16°24 | 25°16 | 20°55 | 20°R26 | 21°38 | 9°51 | n.a. | S 16 |
| S 17 | 21 31 49 | 21° 1'15 | 27°14 | 0♍35 | 6°13 | 24°16 | 15°27 | 6°17 | 16°27 | 25°18 | 20°55 | 20°26 | 21°35 | 9°57 | n.a. | S 17 |
| M18 | 21 35 45 | 21°59'51 | 10♊53 | 2°17 | 7° 1 | 24°54 | 15°31 | 6°24 | 16°31 | 25°20 | 20°56 | 20°24 | 21°32 | 10° 4 | n.a. | M18 |
| T 19 | 21 39 42 | 22°58'28 | 25° 0 | 3°59 | 7°51 | 25°32 | 15°35 | 6°32 | 16°35 | 25°22 | 20°57 | 20°21 | 21°28 | 10°11 | n.a. | T 19 |
| W20 | 21 43 38 | 23°57'08 | 9♋33 | 5°39 | 8°41 | 26° 9 | 15°38 | 6°39 | 16°39 | 25°24 | 20°58 | 20°15 | 21°25 | 10°18 | n.a. | W20 |
| T 21 | 21 47 35 | 24°55'51 | 24°29 | 7°18 | 9°32 | 26°47 | 15°42 | 6°46 | 16°42 | 25°26 | 20°59 | 20° 7 | 21°22 | 10°24 | n.a. | T 21 |
| F 22 | 21 51 32 | 25°54'35 | 9♌40 | 8°57 | 10°23 | 27°25 | 15°45 | 6°53 | 16°46 | 25°28 | 21° 0 | 19°59 | 21°19 | 10°31 | n.a. | F 22 |
| S 23 | 21 55 28 | 26°53'22 | 24°55 | 10°34 | 11°15 | 28° 3 | 15°48 | 7° 1 | 16°50 | 25°30 | 21° 0 | 19°51 | 21°16 | 10°38 | n.a. | S 23 |
| S 24 | 21 59 25 | 27°52'11 | 10♍ 5 | 12°10 | 12° 8 | 28°40 | 15°51 | 7° 8 | 16°54 | 25°32 | 21° 1 | 19°44 | 21°13 | 10°44 | n.a. | S 24 |
| M25 | 22 3 21 | 28°51'01 | 24°58 | 13°46 | 13° 2 | 29°18 | 15°53 | 7°15 | 16°57 | 25°34 | 21° 2 | 19°40 | 21° 9 | 10°51 | n.a. | M25 |
| T 26 | 22 7 18 | 29°49'54 | 9♎29 | 15°20 | 13°56 | 29°56 | 15°56 | 7°22 | 17° 1 | 25°36 | 21° 3 | 19°37 | 21° 6 | 10°58 | n.a. | T 26 |
| W27 | 22 11 14 | 0♍48'48 | 23°31 | 16°54 | 14°50 | 0♌33 | 15°58 | 7°30 | 17° 5 | 25°38 | 21° 3 | 19°D37 | 21° 3 | 11° 5 | n.a. | W27 |
| T 28 | 22 15 11 | 1°47'45 | 7♏ 6 | 18°26 | 15°45 | 1°11 | 16° 0 | 7°37 | 17° 8 | 25°40 | 21° 4 | 19°38 | 21° 0 | 11°11 | n.a. | T 28 |
| F 29 | 22 19 7 | 2°46'43 | 20°14 | 19°58 | 16°41 | 1°48 | 16° 2 | 7°44 | 17°12 | 25°42 | 21° 5 | 19°39 | 20°57 | 11°18 | n.a. | F 29 |
| S 30 | 22 23 4 | 3°45'43 | 2♐59 | 21°29 | 17°38 | 2°26 | 16° 3 | 7°52 | 17°16 | 25°44 | 21° 5 | 19°R40 | 20°53 | 11°25 | n.a. | S 30 |
| S 31 | 22 27 0 | 4♍44'45 | 15♐25 | 22♍58 | 18♋35 | 3♌ 3 | 16♉ 5 | 7♍59 | 17♌19 | 25♋46 | 21♊ 6 | 19♎39 | 20♎50 | 11♒31 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 19n 6 | 13s47 | 1n40 | 21n53 | 1n45 | 18n 9 | 5s29 | 23n57 | 1n 1 | 15n15 | 1s 2 | 11n55 | 2n 4 | 17n 3 | 0n42 | 21n35 | 0n10 | 22n26 | 0s56 | 8s40 | 8s49 | 13s38 | | n.a. |
| S 2 | 18 52 | 16 23 | 2 41 | 21 28 | 1 46 | 18 15 | 5 24 | 23 53 | 1 2 | 15 16 | 1 2 | 11 52 | 2 4 | 17 1 | 0 42 | 21 34 | 0 10 | 22 26 | 0 56 | 8 40 | 8 48 | 13 37 | | n.a. |
| S 3 | 18 37 | 18 8 | 3 32 | 21 1 | 1 47 | 18 21 | 5 18 | 23 49 | 1 2 | 15 18 | 1 2 | 11 50 | 2 4 | 17 0 | 0 42 | 21 34 | 0 10 | 22 26 | 0 56 | 8 39 | 8 47 | 13 35 | | n.a. |
| M 4 | 18 22 | 19 0 | 4 13 | 20 31 | 1 47 | 18 27 | 5 13 | 23 45 | 1 2 | 15 20 | 1 2 | 11 47 | 2 4 | 16 59 | 0 42 | 21 33 | 0 10 | 22 26 | 0 56 | 8 36 | 8 46 | 13 34 | | n.a. |
| T 5 | 18 6 | 19 0 | 4 42 | 20 1 | 1 47 | 18 34 | 5 7 | 23 41 | 1 3 | 15 22 | 1 2 | 11 44 | 2 4 | 16 58 | 0 42 | 21 33 | 0 10 | 22 26 | 0 56 | 8 33 | 8 44 | 13 32 | | n.a. |
| W 6 | 17 51 | 18 9 | 4 58 | 19 28 | 1 46 | 18 40 | 5 2 | 23 36 | 1 3 | 15 23 | 1 2 | 11 42 | 2 4 | 16 57 | 0 42 | 21 33 | 0 10 | 22 26 | 0 56 | 8 29 | 8 43 | 13 31 | | n.a. |
| T 7 | 17 35 | 16 30 | 5 1 | 18 54 | 1 44 | 18 46 | 4 56 | 23 32 | 1 4 | 15 25 | 1 2 | 11 39 | 2 4 | 16 56 | 0 42 | 21 32 | 0 10 | 22 26 | 0 56 | 8 24 | 8 42 | 13 29 | | n.a. |
| F 8 | 17 18 | 14 10 | 4 51 | 18 19 | 1 42 | 18 52 | 4 50 | 23 27 | 1 4 | 15 27 | 1 2 | 11 37 | 2 4 | 16 55 | 0 42 | 21 32 | 0 10 | 22 26 | 0 56 | 8 19 | 8 41 | 13 28 | | n.a. |
| S 9 | 17 2 | 11 14 | 4 28 | 17 43 | 1 40 | 18 58 | 4 44 | 23 22 | 1 4 | 15 28 | 1 2 | 11 34 | 2 4 | 16 54 | 0 42 | 21 32 | 0 10 | 22 27 | 0 56 | 8 15 | 8 40 | 13 26 | | n.a. |
| S 10 | 16 45 | 7 52 | 3 54 | 17 6 | 1 37 | 19 4 | 4 38 | 23 17 | 1 5 | 15 30 | 1 3 | 11 31 | 2 4 | 16 52 | 0 42 | 21 31 | 0 10 | 22 27 | 0 56 | 8 11 | 8 38 | 13 25 | | n.a. |
| M11 | 16 28 | 4 10 | 3 9 | 16 28 | 1 33 | 19 9 | 4 32 | 23 11 | 1 5 | 15 31 | 1 3 | 11 29 | 2 4 | 16 51 | 0 42 | 21 31 | 0 10 | 22 27 | 0 56 | 8 7 | 8 37 | 13 23 | | n.a. |
| T 12 | 16 10 | 0 16 | 2 15 | 15 49 | 1 29 | 19 15 | 4 26 | 23 6 | 1 5 | 15 32 | 1 3 | 11 26 | 2 4 | 16 50 | 0 42 | 21 30 | 0 10 | 22 27 | 0 56 | 8 5 | 8 36 | 13 22 | | n.a. |
| W13 | 15 52 | 3n40 | 1 15 | 15 9 | 1 25 | 19 20 | 4 20 | 23 0 | 1 6 | 15 34 | 1 3 | 11 23 | 2 4 | 16 49 | 0 42 | 21 30 | 0 10 | 22 27 | 0 56 | 8 4 | 8 35 | 13 20 | | n.a. |
| T 14 | 15 34 | 7 31 | 0 10 | 14 28 | 1 21 | 19 25 | 4 14 | 22 54 | 1 6 | 15 35 | 1 3 | 11 21 | 2 4 | 16 48 | 0 42 | 21 30 | 0 10 | 22 27 | 0 56 | 8 4 | 8 34 | 13 19 | | n.a. |
| F 15 | 15 16 | 11 6 | 0s57 | 13 47 | 1 16 | 19 30 | 4 7 | 22 48 | 1 7 | 15 36 | 1 3 | 11 18 | 2 4 | 16 47 | 0 42 | 21 29 | 0 10 | 22 27 | 0 56 | 8 4 | 8 32 | 13 17 | | n.a. |
| S 16 | 14 57 | 14 16 | 2 3 | 13 6 | 1 10 | 19 34 | 4 1 | 22 42 | 1 7 | 15 37 | 1 3 | 11 15 | 2 4 | 16 46 | 0 42 | 21 29 | 0 10 | 22 27 | 0 56 | 8 4 | 8 31 | 13 16 | | n.a. |
| S 17 | 14 39 | 16 46 | 3 4 | 12 24 | 1 5 | 19 39 | 3 55 | 22 36 | 1 7 | 15 38 | 1 3 | 11 13 | 2 3 | 16 44 | 0 42 | 21 29 | 0 10 | 22 27 | 0 56 | 8 4 | 8 30 | 13 14 | | n.a. |
| M18 | 14 20 | 18 25 | 3 56 | 11 42 | 0 59 | 19 42 | 3 48 | 22 29 | 1 8 | 15 39 | 1 3 | 11 10 | 2 3 | 16 43 | 0 42 | 21 28 | 0 10 | 22 28 | 0 56 | 8 3 | 8 29 | 13 13 | | n.a. |
| T 19 | 14 0 | 19 0 | 4 37 | 10 59 | 0 53 | 19 46 | 3 42 | 22 23 | 1 8 | 15 40 | 1 3 | 11 7 | 2 3 | 16 42 | 0 42 | 21 28 | 0 10 | 22 28 | 0 56 | 8 2 | 8 28 | 13 11 | | n.a. |
| W20 | 13 41 | 18 21 | 5 0 | 10 16 | 0 47 | 19 49 | 3 36 | 22 16 | 1 8 | 15 41 | 1 4 | 11 5 | 2 3 | 16 41 | 0 42 | 21 28 | 0 10 | 22 28 | 0 56 | 8 0 | 8 26 | 13 10 | | n.a. |
| T 21 | 13 21 | 16 27 | 5 5 | 9 33 | 0 41 | 19 52 | 3 29 | 22 9 | 1 9 | 15 42 | 1 4 | 11 2 | 2 3 | 16 40 | 0 42 | 21 27 | 0 10 | 22 28 | 0 56 | 7 57 | 8 25 | 13 8 | | n.a. |
| F 22 | 13 1 | 13 24 | 4 48 | 8 50 | 0 34 | 19 55 | 3 23 | 22 2 | 1 9 | 15 43 | 1 4 | 10 59 | 2 3 | 16 39 | 0 42 | 21 27 | 0 10 | 22 28 | 0 56 | 7 54 | 8 24 | 13 7 | | n.a. |
| S 23 | 12 41 | 9 25 | 4 11 | 8 7 | 0 28 | 19 57 | 3 17 | 21 55 | 1 10 | 15 44 | 1 4 | 10 56 | 2 3 | 16 38 | 0 42 | 21 26 | 0 10 | 22 28 | 0 56 | 7 51 | 8 23 | 13 5 | | n.a. |
| S 24 | 12 21 | 4 51 | 3 16 | 7 23 | 0 21 | 19 59 | 3 10 | 21 47 | 1 10 | 15 44 | 1 4 | 10 54 | 2 3 | 16 36 | 0 42 | 21 26 | 0 10 | 22 28 | 0 55 | 7 48 | 8 22 | 13 4 | | n.a. |
| M25 | 12 0 | 0 3 | 2 9 | 6 40 | 0 14 | 20 0 | 3 4 | 21 40 | 1 10 | 15 45 | 1 4 | 10 51 | 2 4 | 16 35 | 0 42 | 21 26 | 0 10 | 22 28 | 0 55 | 7 46 | 8 20 | 13 2 | | n.a. |
| T 26 | 11 39 | 4s38 | 0 54 | 5 57 | 0 7 | 20 1 | 2 58 | 21 32 | 1 11 | 15 46 | 1 4 | 10 48 | 2 4 | 16 34 | 0 42 | 21 25 | 0 11 | 22 28 | 0 55 | 7 45 | 8 19 | 13 1 | | n.a. |
| W27 | 11 18 | 8 54 | 0n21 | 5 13 | 0s 0 | 20 2 | 2 51 | 21 24 | 1 11 | 15 46 | 1 4 | 10 45 | 2 4 | 16 33 | 0 42 | 21 25 | 0 11 | 22 28 | 0 55 | 7 45 | 8 18 | 12 59 | | n.a. |
| T 28 | 10 57 | 12 34 | 1 33 | 4 30 | 0 7 | 20 2 | 2 45 | 21 16 | 1 11 | 15 47 | 1 4 | 10 43 | 2 4 | 16 32 | 0 42 | 21 25 | 0 11 | 22 28 | 0 55 | 7 46 | 8 17 | 12 58 | | n.a. |
| F 29 | 10 36 | 15 28 | 2 38 | 3 47 | 0 15 | 20 1 | 2 39 | 21 8 | 1 12 | 15 47 | 1 5 | 10 40 | 2 4 | 16 31 | 0 42 | 21 24 | 0 11 | 22 29 | 0 55 | 7 46 | 8 16 | 12 56 | | n.a. |
| S 30 | 10 14 | 17 30 | 3 33 | 3 5 | 0 22 | 20 0 | 2 32 | 21 0 | 1 12 | 15 47 | 1 5 | 10 37 | 2 4 | 16 30 | 0 42 | 21 24 | 0 11 | 22 29 | 0 55 | 7 46 | 8 14 | 12 55 | | n.a. |
| S 31 | 9n52 | 18s39 | 4n16 | 2n22 | 0s29 | 19n59 | 2s26 | 20n52 | 1n12 | 15n48 | 1s 5 | 10n34 | 2n 4 | 16n29 | 0n42 | 21n24 | 0n11 | 22n29 | 0s55 | 7s46 | 8s13 | 12s53 | | n.a. |

Julian Day Number = 1702277.5, Delta T = 03h04m57s
Ecliptic obliquity = 23°41'56, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°47'14, Lahiri = - 4°40'13 Julian Calendar 1 Aug. 53 BCE == Greg. Calendar 30 July 053 BCE

The year -52 astronomical counting style corresponds to year 053 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 53 BCE
# geocentric

## SEPTEMBER 53 BCE (-52) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 22 30 57 | 5♍43'49 | 27♐36 | 24♍27 | 19♋32 | 3♌41 | 16♉ 6 | 8♍ 6 | 17♌23 | 25♋47 | 21♊ 6 | 19°R37 | 20♎47 | 11♒38 | n.a. | M 1 |
| T 2 | 22 34 54 | 6°42'55 | 9♑37 | 25°55 | 20°30 | 4°18 | 16° 7 | 8°14 | 17°27 | 25°49 | 21° 7 | 19♎32 | 20°44 | 11°45 | n.a. | T 2 |
| W 3 | 22 38 50 | 7°42'03 | 21°32 | 27°22 | 21°28 | 4°56 | 16° 8 | 8°21 | 17°30 | 25°51 | 21° 7 | 19°26 | 20°41 | 11°52 | n.a. | W 3 |
| T 4 | 22 42 47 | 8°41'13 | 3♒24 | 28°48 | 22°27 | 5°33 | 16° 8 | 8°28 | 17°34 | 25°53 | 21° 8 | 19°19 | 20°38 | 11°58 | n.a. | T 4 |
| F 5 | 22 46 43 | 9°40'24 | 15°16 | 0♎13 | 23°26 | 6°11 | 16° 9 | 8°36 | 17°37 | 25°54 | 21° 8 | 19°11 | 20°34 | 12° 5 | n.a. | F 5 |
| S 6 | 22 50 40 | 10°39'38 | 27°11 | 1°37 | 24°26 | 6°48 | 16° 9 | 8°43 | 17°41 | 25°56 | 21° 9 | 19° 4 | 20°31 | 12°12 | n.a. | S 6 |
| S 7 | 22 54 36 | 11°38'53 | 9♓ 9 | 3° 0 | 25°26 | 7°26 | 16°R 9 | 8°50 | 17°45 | 25°58 | 21° 9 | 18°58 | 20°28 | 12°18 | n.a. | S 7 |
| M 8 | 22 58 33 | 12°38'11 | 21°13 | 4°22 | 26°27 | 8° 3 | 16° 9 | 8°58 | 17°48 | 26° 0 | 21°10 | 18°53 | 20°25 | 12°25 | n.a. | M 8 |
| T 9 | 23 2 29 | 13°37'31 | 3♈23 | 5°43 | 27°28 | 8°41 | 16° 8 | 9° 5 | 17°52 | 26° 1 | 21°10 | 18°50 | 20°22 | 12°32 | n.a. | T 9 |
| W10 | 23 6 26 | 14°36'53 | 15°43 | 7° 3 | 28°29 | 9°18 | 16° 8 | 9°12 | 17°55 | 26° 3 | 21°10 | 18°D49 | 20°19 | 12°39 | n.a. | W10 |
| T 11 | 23 10 22 | 15°36'18 | 28°12 | 8°21 | 29°31 | 9°55 | 16° 7 | 9°20 | 17°58 | 26° 4 | 21°11 | 18°49 | 20°15 | 12°45 | n.a. | T 11 |
| F 12 | 23 14 19 | 16°35'45 | 10♉55 | 9°39 | 0♌33 | 10°33 | 16° 6 | 9°27 | 18° 2 | 26° 6 | 21°11 | 18°50 | 20°12 | 12°52 | n.a. | F 12 |
| S 13 | 23 18 16 | 17°35'14 | 23°53 | 10°54 | 1°35 | 11°10 | 16° 5 | 9°34 | 18° 5 | 26° 8 | 21°11 | 18°52 | 20° 9 | 12°59 | n.a. | S 13 |
| S 14 | 23 22 12 | 18°34'46 | 7♊ 8 | 12° 9 | 2°38 | 11°47 | 16° 4 | 9°41 | 18° 9 | 26° 9 | 21°12 | 18°53 | 20° 6 | 13° 5 | n.a. | S 14 |
| M15 | 23 26 9 | 19°34'20 | 20°44 | 13°22 | 3°41 | 12°24 | 16° 2 | 9°49 | 18°12 | 26°11 | 21°12 | 18°R54 | 20° 3 | 13°12 | n.a. | M15 |
| T 16 | 23 30 5 | 20°33'57 | 4♋41 | 14°33 | 4°45 | 13° 2 | 16° 0 | 9°56 | 18°15 | 26°12 | 21°12 | 18°53 | 19°59 | 13°19 | n.a. | T 16 |
| W17 | 23 34 2 | 21°33'36 | 18°58 | 15°42 | 5°49 | 13°39 | 15°58 | 10° 3 | 18°19 | 26°13 | 21°12 | 18°51 | 19°56 | 13°26 | n.a. | W17 |
| T 18 | 23 37 58 | 22°33'17 | 3♌35 | 16°50 | 6°53 | 14°16 | 15°56 | 10°10 | 18°22 | 26°15 | 21°12 | 18°48 | 19°53 | 13°32 | n.a. | T 18 |
| F 19 | 23 41 55 | 23°33'01 | 18°24 | 17°55 | 7°57 | 14°53 | 15°54 | 10°18 | 18°25 | 26°16 | 21°13 | 18°44 | 19°50 | 13°39 | n.a. | F 19 |
| S 20 | 23 45 51 | 24°32'47 | 3♍21 | 18°58 | 9° 2 | 15°31 | 15°51 | 10°25 | 18°29 | 26°18 | 21°13 | 18°41 | 19°47 | 13°46 | n.a. | S 20 |
| S 21 | 23 49 48 | 25°32'35 | 18°16 | 19°58 | 10° 7 | 16° 8 | 15°48 | 10°32 | 18°32 | 26°19 | 21°13 | 18°38 | 19°44 | 13°52 | n.a. | S 21 |
| M22 | 23 53 45 | 26°32'25 | 3♎ 1 | 20°56 | 11°13 | 16°45 | 15°45 | 10°39 | 18°35 | 26°20 | 21°13 | 18°36 | 19°40 | 13°59 | n.a. | M22 |
| T 23 | 23 57 41 | 27°32'17 | 17°29 | 21°50 | 12°18 | 17°22 | 15°42 | 10°46 | 18°38 | 26°22 | 21°13 | 18°D36 | 19°37 | 14° 6 | n.a. | T 23 |
| W24 | 0 1 38 | 28°32'12 | 1♏34 | 22°41 | 13°24 | 17°59 | 15°39 | 10°53 | 18°41 | 26°23 | 21°R13 | 18°36 | 19°34 | 14°13 | n.a. | W24 |
| T 25 | 0 5 34 | 29°32'08 | 15°13 | 23°28 | 14°30 | 18°36 | 15°35 | 11° 1 | 18°44 | 26°24 | 21°13 | 18°37 | 19°31 | 14°19 | n.a. | T 25 |
| F 26 | 0 9 31 | 0♎32'06 | 28°27 | 24°11 | 15°36 | 19°13 | 15°31 | 11° 8 | 18°47 | 26°25 | 21°13 | 18°39 | 19°28 | 14°26 | n.a. | F 26 |
| S 27 | 0 13 27 | 1°32'06 | 11♐18 | 24°49 | 16°43 | 19°50 | 15°28 | 11°15 | 18°50 | 26°26 | 21°13 | 18°40 | 19°24 | 14°33 | n.a. | S 27 |
| S 28 | 0 17 24 | 2°32'07 | 23°48 | 25°22 | 17°50 | 20°27 | 15°23 | 11°22 | 18°53 | 26°28 | 21°13 | 18°41 | 19°21 | 14°39 | n.a. | S 28 |
| M29 | 0 21 20 | 3°32'10 | 6♑ 1 | 25°49 | 18°57 | 21° 4 | 15°19 | 11°29 | 18°56 | 26°29 | 21°13 | 18°R41 | 19°18 | 14°46 | n.a. | M29 |
| T 30 | 0 25 17 | 4♎32'15 | 18♑ 3 | 26♎10 | 20♌ 4 | 21♌41 | 15♉15 | 11♍36 | 18♌59 | 26♋30 | 21♊12 | 18♎40 | 19♎15 | 14♒53 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 9n31 | 18s54 | 4n47 | 1n40 | 0s37 | 19n57 | 2s20 | 20n43 | 1n13 | 15n48 | 1s 5 | 10n32 | 2n 4 | 16n28 | 0n42 | 21n23 | 0n11 | 22n29 | 0s55 | 7s45 | 8s12 | 12s52 | | n.a. |
| T 2 | 9 9 | 18 17 | 5 4 | 0 58 | 0 44 | 19 55 | 2 14 | 20 34 | 1 13 | 15 48 | 1 5 | 10 29 | 2 4 | 16 26 | 0 42 | 21 23 | 0 11 | 22 29 | 0 55 | 7 43 | 8 11 | 12 50 | | n.a. |
| W 3 | 8 46 | 16 52 | 5 9 | 0 16 | 0 52 | 19 52 | 2 7 | 20 26 | 1 13 | 15 48 | 1 5 | 10 26 | 2 4 | 16 25 | 0 42 | 21 23 | 0 11 | 22 29 | 0 55 | 7 41 | 8 10 | 12 48 | | n.a. |
| T 4 | 8 24 | 14 45 | 5 0 | 0s25 | 0 59 | 19 49 | 2 1 | 20 17 | 1 14 | 15 48 | 1 5 | 10 23 | 2 4 | 16 24 | 0 42 | 21 22 | 0 11 | 22 29 | 0 55 | 7 38 | 8 8 | 12 47 | | n.a. |
| F 5 | 8 2 | 12 0 | 4 38 | 1 6 | 1 7 | 19 45 | 1 55 | 20 8 | 1 14 | 15 48 | 1 5 | 10 21 | 2 4 | 16 23 | 0 42 | 21 22 | 0 11 | 22 29 | 0 55 | 7 35 | 8 7 | 12 45 | | n.a. |
| S 6 | 7 39 | 8 46 | 4 4 | 1 47 | 1 14 | 19 41 | 1 49 | 19 58 | 1 15 | 15 48 | 1 5 | 10 18 | 2 4 | 16 22 | 0 42 | 21 22 | 0 11 | 22 29 | 0 55 | 7 33 | 8 6 | 12 44 | | n.a. |
| S 7 | 7 16 | 5 9 | 3 19 | 2 27 | 1 21 | 19 36 | 1 43 | 19 49 | 1 15 | 15 48 | 1 5 | 10 15 | 2 4 | 16 21 | 0 42 | 21 22 | 0 11 | 22 29 | 0 55 | 7 30 | 8 5 | 12 42 | | n.a. |
| M 8 | 6 53 | 1 18 | 2 25 | 3 6 | 1 28 | 19 30 | 1 37 | 19 40 | 1 15 | 15 48 | 1 6 | 10 12 | 2 4 | 16 20 | 0 42 | 21 21 | 0 11 | 22 29 | 0 55 | 7 28 | 8 4 | 12 41 | | n.a. |
| T 9 | 6 30 | 2n38 | 1 23 | 3 45 | 1 36 | 19 24 | 1 31 | 19 30 | 1 16 | 15 48 | 1 6 | 10 10 | 2 4 | 16 19 | 0 42 | 21 21 | 0 11 | 22 29 | 0 55 | 7 27 | 8 2 | 12 39 | | n.a. |
| W10 | 6 7 | 6 30 | 0 17 | 4 24 | 1 43 | 19 18 | 1 25 | 19 20 | 1 16 | 15 48 | 1 6 | 10 7 | 2 4 | 16 18 | 0 42 | 21 21 | 0 11 | 22 29 | 0 55 | 7 27 | 8 1 | 12 38 | | n.a. |
| T 11 | 5 44 | 10 9 | 0s51 | 5 1 | 1 50 | 19 11 | 1 19 | 19 11 | 1 16 | 15 47 | 1 6 | 10 4 | 2 4 | 16 17 | 0 42 | 21 20 | 0 11 | 22 29 | 0 55 | 7 27 | 8 0 | 12 36 | | n.a. |
| F 12 | 5 21 | 13 24 | 1 58 | 5 38 | 1 56 | 19 3 | 1 14 | 19 1 | 1 17 | 15 47 | 1 6 | 10 2 | 2 4 | 16 16 | 0 42 | 21 20 | 0 11 | 22 30 | 0 55 | 7 27 | 7 59 | 12 35 | | n.a. |
| S 13 | 4 57 | 16 2 | 3 0 | 6 15 | 2 3 | 18 55 | 1 8 | 18 51 | 1 17 | 15 47 | 1 6 | 9 59 | 2 4 | 16 15 | 0 42 | 21 20 | 0 11 | 22 30 | 0 55 | 7 28 | 7 58 | 12 33 | | n.a. |
| S 14 | 4 34 | 17 53 | 3 54 | 6 50 | 2 10 | 18 46 | 1 2 | 18 40 | 1 17 | 15 46 | 1 6 | 9 56 | 2 4 | 16 14 | 0 42 | 21 20 | 0 11 | 22 30 | 0 55 | 7 29 | 7 56 | 12 32 | | n.a. |
| M15 | 4 10 | 18 46 | 4 37 | 7 25 | 2 16 | 18 37 | 0 57 | 18 30 | 1 18 | 15 46 | 1 6 | 9 53 | 2 4 | 16 13 | 0 42 | 21 19 | 0 11 | 22 30 | 0 55 | 7 29 | 7 55 | 12 30 | | n.a. |
| T 16 | 3 47 | 18 33 | 5 4 | 7 58 | 2 22 | 18 27 | 0 51 | 18 20 | 1 18 | 15 45 | 1 6 | 9 51 | 2 4 | 16 12 | 0 42 | 21 19 | 0 11 | 22 30 | 0 55 | 7 28 | 7 54 | 12 28 | | n.a. |
| W17 | 3 23 | 17 10 | 5 14 | 8 31 | 2 28 | 18 17 | 0 46 | 18 9 | 1 18 | 15 44 | 1 6 | 9 48 | 2 5 | 16 11 | 0 42 | 21 19 | 0 11 | 22 30 | 0 55 | 7 28 | 7 53 | 12 27 | | n.a. |
| T 18 | 2 59 | 14 39 | 5 3 | 9 2 | 2 33 | 18 6 | 0 40 | 17 59 | 1 19 | 15 44 | 1 6 | 9 45 | 2 5 | 16 10 | 0 42 | 21 18 | 0 11 | 22 30 | 0 54 | 7 26 | 7 51 | 12 25 | | n.a. |
| F 19 | 2 35 | 11 9 | 4 33 | 9 32 | 2 39 | 17 55 | 0 35 | 17 48 | 1 19 | 15 43 | 1 7 | 9 43 | 2 5 | 16 9 | 0 42 | 21 18 | 0 11 | 22 30 | 0 54 | 7 25 | 7 50 | 12 24 | | n.a. |
| S 20 | 2 11 | 6 55 | 3 44 | 10 1 | 2 44 | 17 43 | 0 30 | 17 37 | 1 19 | 15 42 | 1 7 | 9 40 | 2 5 | 16 8 | 0 42 | 21 18 | 0 11 | 22 30 | 0 54 | 7 24 | 7 49 | 12 22 | | n.a. |
| S 21 | 1 47 | 2 15 | 2 39 | 10 29 | 2 48 | 17 30 | 0 25 | 17 26 | 1 20 | 15 41 | 1 7 | 9 37 | 2 5 | 16 7 | 0 43 | 21 18 | 0 11 | 22 30 | 0 54 | 7 23 | 7 48 | 12 21 | | n.a. |
| M22 | 1 23 | 2s30 | 1 25 | 10 54 | 2 52 | 17 17 | 0 19 | 17 15 | 1 20 | 15 40 | 1 7 | 9 35 | 2 5 | 16 6 | 0 43 | 21 18 | 0 11 | 22 30 | 0 54 | 7 22 | 7 47 | 12 19 | | n.a. |
| T 23 | 0 59 | 7 2 | 0 6 | 11 19 | 2 56 | 17 4 | 0 14 | 17 4 | 1 20 | 15 39 | 1 7 | 9 32 | 2 5 | 16 5 | 0 43 | 21 17 | 0 11 | 22 30 | 0 54 | 7 22 | 7 45 | 12 18 | | n.a. |
| W24 | 0 35 | 11 2 | 1n11 | 11 41 | 2 59 | 16 50 | 0 9 | 16 53 | 1 21 | 15 38 | 1 7 | 9 29 | 2 5 | 16 4 | 0 43 | 21 17 | 0 11 | 22 30 | 0 54 | 7 22 | 7 44 | 12 16 | | n.a. |
| T 25 | 0 11 | 14 19 | 2 22 | 12 1 | 3 1 | 16 35 | 0 5 | 16 42 | 1 21 | 15 37 | 1 7 | 9 27 | 2 5 | 16 3 | 0 43 | 21 17 | 0 11 | 22 30 | 0 54 | 7 22 | 7 43 | 12 14 | | n.a. |
| F 26 | 0s13 | 16 44 | 3 23 | 12 19 | 3 3 | 16 20 | 0n 0 | 16 30 | 1 21 | 15 36 | 1 7 | 9 24 | 2 5 | 16 2 | 0 43 | 21 17 | 0 11 | 22 30 | 0 54 | 7 23 | 7 42 | 12 13 | | n.a. |
| S 27 | 0 37 | 18 13 | 4 12 | 12 34 | 3 4 | 16 4 | 0 5 | 16 19 | 1 22 | 15 35 | 1 7 | 9 21 | 2 5 | 16 1 | 0 43 | 21 16 | 0 11 | 22 30 | 0 54 | 7 23 | 7 41 | 12 11 | | n.a. |
| S 28 | 1 1 | 18 46 | 4 47 | 12 46 | 3 5 | 15 48 | 0 10 | 16 7 | 1 22 | 15 33 | 1 7 | 9 19 | 2 6 | 16 0 | 0 43 | 21 16 | 0 11 | 22 30 | 0 54 | 7 24 | 7 39 | 12 10 | | n.a. |
| M29 | 1 25 | 18 25 | 5 9 | 12 56 | 3 4 | 15 32 | 0 14 | 15 55 | 1 22 | 15 32 | 1 7 | 9 16 | 2 6 | 15 59 | 0 43 | 21 16 | 0 11 | 22 30 | 0 54 | 7 24 | 7 38 | 12 8 | | n.a. |
| T 30 | 1s49 | 17s15 | 5n16 | 13s 2 | 3s 2 | 15n15 | 0n19 | 15n44 | 1n22 | 15n31 | 1s 7 | 9n14 | 2n 6 | 15n58 | 0n43 | 21n16 | 0n11 | 22n30 | 0s54 | 7s24 | 7s37 | 12s 7 | | n.a. |

Julian Day Number = 1702308.5, Delta T = 03h04m56s
Ecliptic obliquity = 23°41'57, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°47'10, Lahiri = - 4°40'09 Julian Calendar 1 Sept. 53 BCE == Greg. Calendar 30 Aug. 053 BCE


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# ASTRODIENST EPHEMERIS for the year 53 BCE
# geocentric

## OCTOBER 53 BCE (-52) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 0 29 14 | 5♎32'22 | 29♉57 | 26♎24 | 21♌12 | 22♌18 | 15°R10 | 11♍43 | 19♌ 2 | 26♋31 | 21°R12 | 18°R39 | 19♎12 | 14♒59 | n.a. | W 1 |
| T 2 | 0 33 10 | 6°32'30 | 11♒49 | 26°R31 | 22°19 | 22°55 | 15♉ 5 | 11°49 | 19° 5 | 26°32 | 21♊12 | 18♎38 | 19° 9 | 15° 6 | n.a. | T 2 |
| F 3 | 0 37 7 | 7°32'40 | 23°42 | 26°29 | 23°27 | 23°32 | 15° 0 | 11°56 | 19° 8 | 26°33 | 21°12 | 18°36 | 19° 5 | 15°13 | n.a. | F 3 |
| S 4 | 0 41 3 | 8°32'52 | 5♓39 | 26°18 | 24°35 | 24° 9 | 14°55 | 12° 3 | 19°11 | 26°34 | 21°12 | 18°34 | 19° 2 | 15°20 | n.a. | S 4 |
| S 5 | 0 45 0 | 9°33'06 | 17°43 | 25°58 | 25°44 | 24°46 | 14°50 | 12°10 | 19°13 | 26°35 | 21°11 | 18°33 | 18°59 | 15°26 | n.a. | S 5 |
| M 6 | 0 48 56 | 10°33'21 | 29°57 | 25°29 | 26°52 | 25°22 | 14°44 | 12°17 | 19°16 | 26°36 | 21°11 | 18°32 | 18°56 | 15°33 | n.a. | M 6 |
| T 7 | 0 52 53 | 11°33'38 | 12♈22 | 24°50 | 28° 1 | 25°59 | 14°38 | 12°24 | 19°19 | 26°36 | 21°11 | 18°32 | 18°53 | 15°40 | n.a. | T 7 |
| W 8 | 0 56 49 | 12°33'57 | 24°59 | 24° 1 | 29°10 | 26°36 | 14°33 | 12°30 | 19°21 | 26°37 | 21°11 | 18°D32 | 18°50 | 15°46 | n.a. | W 8 |
| T 9 | 1 0 46 | 13°34'17 | 7♉48 | 23° 3 | 0♍19 | 27°13 | 14°27 | 12°37 | 19°24 | 26°38 | 21°10 | 18°32 | 18°46 | 15°53 | n.a. | T 9 |
| F 10 | 1 4 42 | 14°34'40 | 20°51 | 21°57 | 1°28 | 27°49 | 14°21 | 12°43 | 19°27 | 26°39 | 21°10 | 18°33 | 18°43 | 16° 0 | n.a. | F 10 |
| S 11 | 1 8 39 | 15°35'05 | 4♊ 7 | 20°45 | 2°38 | 28°26 | 14°14 | 12°50 | 19°29 | 26°40 | 21° 9 | 18°33 | 18°40 | 16° 7 | n.a. | S 11 |
| S 12 | 1 12 36 | 16°35'31 | 17°36 | 19°28 | 3°47 | 29° 3 | 14° 8 | 12°57 | 19°31 | 26°40 | 21° 9 | 18°33 | 18°37 | 16°13 | n.a. | S 12 |
| M13 | 1 16 32 | 17°36'00 | 1♋19 | 18° 8 | 4°57 | 29°39 | 14° 1 | 13° 3 | 19°34 | 26°41 | 21° 9 | 18°33 | 18°34 | 16°20 | n.a. | M13 |
| T 14 | 1 20 29 | 18°36'31 | 15°14 | 16°48 | 6° 7 | 0♍16 | 13°55 | 13°10 | 19°36 | 26°42 | 21° 8 | 18°33 | 18°30 | 16°27 | n.a. | T 14 |
| W15 | 1 24 25 | 19°37'04 | 29°21 | 15°31 | 7°17 | 0°53 | 13°48 | 13°16 | 19°39 | 26°42 | 21° 8 | 18°33 | 18°27 | 16°33 | n.a. | W15 |
| T 16 | 1 28 22 | 20°37'38 | 13♌39 | 14°19 | 8°28 | 1°29 | 13°41 | 13°22 | 19°41 | 26°43 | 21° 7 | 18°33 | 18°24 | 16°40 | n.a. | T 16 |
| F 17 | 1 32 18 | 21°38'15 | 28° 4 | 13°14 | 9°38 | 2° 6 | 13°34 | 13°29 | 19°43 | 26°43 | 21° 7 | 18°34 | 18°21 | 16°47 | n.a. | F 17 |
| S 18 | 1 36 15 | 22°38'53 | 12♍33 | 12°19 | 10°49 | 2°42 | 13°27 | 13°35 | 19°45 | 26°44 | 21° 6 | 18°34 | 18°18 | 16°54 | n.a. | S 18 |
| S 19 | 1 40 11 | 23°39'33 | 27° 1 | 11°34 | 11°59 | 3°19 | 13°20 | 13°41 | 19°48 | 26°44 | 21° 5 | 18°34 | 18°15 | 17° 0 | n.a. | S 19 |
| M20 | 1 44 8 | 24°40'15 | 11♎22 | 11° 0 | 13°10 | 3°55 | 13°12 | 13°47 | 19°50 | 26°45 | 21° 5 | 18°R35 | 18°11 | 17° 7 | n.a. | M20 |
| T 21 | 1 48 5 | 25°40'58 | 25°32 | 10°38 | 14°21 | 4°32 | 13° 5 | 13°53 | 19°52 | 26°45 | 21° 4 | 18°35 | 18° 8 | 17°14 | n.a. | T 21 |
| W22 | 1 52 1 | 26°41'43 | 9♏26 | 10°D28 | 15°32 | 5° 8 | 12°57 | 13°59 | 19°54 | 26°45 | 21° 3 | 18°34 | 18° 5 | 17°20 | n.a. | W22 |
| T 23 | 1 55 58 | 27°42'30 | 23° 1 | 10°29 | 16°43 | 5°45 | 12°50 | 14° 5 | 19°56 | 26°46 | 21° 3 | 18°33 | 18° 2 | 17°27 | n.a. | T 23 |
| F 24 | 1 59 54 | 28°43'17 | 6♐15 | 10°41 | 17°55 | 6°21 | 12°42 | 14°11 | 19°58 | 26°46 | 21° 2 | 18°32 | 17°59 | 17°34 | n.a. | F 24 |
| S 25 | 2 3 51 | 29°44'06 | 19° 8 | 11° 2 | 19° 6 | 6°57 | 12°34 | 14°17 | 19°59 | 26°46 | 21° 1 | 18°31 | 17°55 | 17°40 | n.a. | S 25 |
| S 26 | 2 7 47 | 0♏44'57 | 1♑41 | 11°33 | 20°18 | 7°34 | 12°26 | 14°23 | 20° 1 | 26°47 | 21° 1 | 18°29 | 17°52 | 17°47 | n.a. | S 26 |
| M27 | 2 11 44 | 1°45'48 | 13°57 | 12°11 | 21°29 | 8°10 | 12°18 | 14°29 | 20° 3 | 26°47 | 21° 0 | 18°28 | 17°49 | 17°54 | n.a. | M27 |
| T 28 | 2 15 40 | 2°46'40 | 26° 1 | 12°57 | 22°41 | 8°46 | 12°10 | 14°34 | 20° 5 | 26°47 | 20°59 | 18°27 | 17°46 | 18° 1 | n.a. | T 28 |
| W29 | 2 19 37 | 3°47'33 | 7♒56 | 13°49 | 23°53 | 9°22 | 12° 2 | 14°40 | 20° 6 | 26°47 | 20°58 | 18°D27 | 17°43 | 18° 7 | n.a. | W29 |
| T 30 | 2 23 34 | 4°48'28 | 19°47 | 14°46 | 25° 5 | 9°58 | 11°54 | 14°46 | 20° 8 | 26°47 | 20°58 | 18°28 | 17°40 | 18°14 | n.a. | T 30 |
| F 31 | 2 27 30 | 5♏49'23 | 1♓40 | 15♎49 | 26♍17 | 10♍34 | 11♉46 | 14♍51 | 20♌10 | 26♋47 | 20♊57 | 18♎29 | 17♎36 | 18♒21 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| W 1 | 2s13 | 15s20 | 5n10 | 13s 5 | 2s59 | 14n57 | 0n23 | 15n32 | 1n23 | 15n29 | 1s 7 | 9n11 | 2n 6 | 15n57 | 0n43 | 21n16 | 0n11 | 22n30 | 0s54 | 7s23 | 7s36 | 12s 5 | | | n.a. |
| T 2 | 2 37 | 12 46 | 4 51 | 13 3 | 2 55 | 14 39 | 0 27 | 15 20 | 1 23 | 15 28 | 1 7 | 9 8 | 2 6 | 15 56 | 0 43 | 21 15 | 0 11 | 22 30 | 0 54 | 7 23 | 7 34 | 12 3 | | | n.a. |
| F 3 | 3 1 | 9 42 | 4 19 | 12 57 | 2 50 | 14 21 | 0 32 | 15 8 | 1 23 | 15 26 | 1 7 | 9 6 | 2 6 | 15 56 | 0 43 | 21 15 | 0 11 | 22 30 | 0 54 | 7 22 | 7 33 | 12 2 | | | n.a. |
| S 4 | 3 25 | 6 12 | 3 36 | 12 47 | 2 43 | 14 2 | 0 36 | 14 56 | 1 24 | 15 25 | 1 7 | 9 3 | 2 6 | 15 55 | 0 43 | 21 15 | 0 11 | 22 30 | 0 54 | 7 21 | 7 32 | 12 0 | | | n.a. |
| S 5 | 3 49 | 2 25 | 2 43 | 12 32 | 2 34 | 13 42 | 0 40 | 14 44 | 1 24 | 15 23 | 1 7 | 9 1 | 2 6 | 15 54 | 0 43 | 21 15 | 0 11 | 22 30 | 0 54 | 7 21 | 7 31 | 11 59 | | | n.a. |
| M 6 | 4 13 | 1n32 | 1 41 | 12 11 | 2 24 | 13 22 | 0 44 | 14 31 | 1 24 | 15 22 | 1 7 | 8 58 | 2 7 | 15 53 | 0 43 | 21 15 | 0 11 | 22 30 | 0 54 | 7 21 | 7 30 | 11 57 | | | n.a. |
| T 7 | 4 37 | 5 28 | 0 34 | 11 45 | 2 12 | 13 2 | 0 47 | 14 19 | 1 25 | 15 20 | 1 7 | 8 56 | 2 7 | 15 52 | 0 43 | 21 15 | 0 11 | 22 31 | 0 54 | 7 20 | 7 28 | 11 56 | | | n.a. |
| W 8 | 5 1 | 9 13 | 0s36 | 11 14 | 1 58 | 12 41 | 0 51 | 14 7 | 1 25 | 15 18 | 1 7 | 8 53 | 2 7 | 15 51 | 0 43 | 21 15 | 0 11 | 22 31 | 0 54 | 7 20 | 7 27 | 11 54 | | | n.a. |
| T 9 | 5 25 | 12 37 | 1 45 | 10 38 | 1 42 | 12 20 | 0 55 | 13 54 | 1 25 | 15 16 | 1 7 | 8 51 | 2 7 | 15 51 | 0 43 | 21 14 | 0 11 | 22 31 | 0 54 | 7 20 | 7 26 | 11 52 | | | n.a. |
| F 10 | 5 48 | 15 26 | 2 50 | 9 57 | 1 25 | 11 58 | 0 58 | 13 42 | 1 26 | 15 15 | 1 7 | 8 49 | 2 7 | 15 50 | 0 43 | 21 14 | 0 11 | 22 31 | 0 54 | 7 21 | 7 25 | 11 51 | | | n.a. |
| S 11 | 6 12 | 17 29 | 3 47 | 9 12 | 1 6 | 11 37 | 1 2 | 13 29 | 1 26 | 15 13 | 1 7 | 8 46 | 2 7 | 15 49 | 0 43 | 21 14 | 0 11 | 22 31 | 0 54 | 7 21 | 7 23 | 11 49 | | | n.a. |
| S 12 | 6 35 | 18 36 | 4 32 | 8 25 | 0 46 | 11 14 | 1 5 | 13 16 | 1 26 | 15 11 | 1 7 | 8 44 | 2 7 | 15 48 | 0 43 | 21 14 | 0 11 | 22 31 | 0 54 | 7 21 | 7 22 | 11 48 | | | n.a. |
| M13 | 6 59 | 18 38 | 5 3 | 7 35 | 0 26 | 10 51 | 1 8 | 13 4 | 1 26 | 15 9 | 1 7 | 8 41 | 2 8 | 15 48 | 0 43 | 21 14 | 0 11 | 22 31 | 0 53 | 7 21 | 7 21 | 11 46 | | | n.a. |
| T 14 | 7 22 | 17 34 | 5 17 | 6 45 | 0 5 | 10 28 | 1 12 | 12 51 | 1 27 | 15 7 | 1 7 | 8 39 | 2 8 | 15 47 | 0 43 | 21 14 | 0 11 | 22 31 | 0 53 | 7 21 | 7 20 | 11 44 | | | n.a. |
| W15 | 7 45 | 15 25 | 5 12 | 5 56 | 0n15 | 10 5 | 1 15 | 12 38 | 1 27 | 15 5 | 1 7 | 8 37 | 2 8 | 15 46 | 0 43 | 21 14 | 0 11 | 22 31 | 0 53 | 7 21 | 7 19 | 11 43 | | | n.a. |
| T 16 | 8 8 | 12 19 | 4 48 | 5 10 | 0 35 | 9 41 | 1 18 | 12 25 | 1 27 | 15 3 | 1 7 | 8 34 | 2 8 | 15 45 | 0 43 | 21 14 | 0 11 | 22 31 | 0 53 | 7 21 | 7 17 | 11 41 | | | n.a. |
| F 17 | 8 31 | 8 26 | 4 5 | 4 27 | 0 54 | 9 17 | 1 21 | 12 12 | 1 28 | 15 1 | 1 7 | 8 32 | 2 8 | 15 45 | 0 43 | 21 14 | 0 11 | 22 31 | 0 53 | 7 21 | 7 16 | 11 40 | | | n.a. |
| S 18 | 8 54 | 4 3 | 3 7 | 3 49 | 1 11 | 8 52 | 1 23 | 11 59 | 1 28 | 14 59 | 1 7 | 8 30 | 2 8 | 15 44 | 0 43 | 21 13 | 0 11 | 22 31 | 0 53 | 7 21 | 7 15 | 11 38 | | | n.a. |
| S 19 | 9 17 | 0s35 | 1 57 | 3 17 | 1 27 | 8 28 | 1 26 | 11 46 | 1 28 | 14 56 | 1 7 | 8 27 | 2 9 | 15 43 | 0 43 | 21 13 | 0 11 | 22 31 | 0 53 | 7 21 | 7 14 | 11 36 | | | n.a. |
| M20 | 9 39 | 5 9 | 0 40 | 2 52 | 1 41 | 8 3 | 1 29 | 11 33 | 1 29 | 14 54 | 1 7 | 8 25 | 2 9 | 15 43 | 0 43 | 21 13 | 0 11 | 22 31 | 0 53 | 7 21 | 7 12 | 11 35 | | | n.a. |
| T 21 | 10 2 | 9 23 | 0n39 | 2 32 | 1 52 | 7 37 | 1 31 | 11 20 | 1 29 | 14 52 | 1 7 | 8 23 | 2 9 | 15 42 | 0 44 | 21 13 | 0 11 | 22 31 | 0 53 | 7 21 | 7 11 | 11 33 | | | n.a. |
| W22 | 10 24 | 13 0 | 1 53 | 2 19 | 2 2 | 7 12 | 1 33 | 11 7 | 1 29 | 14 50 | 1 7 | 8 21 | 2 9 | 15 42 | 0 44 | 21 13 | 0 12 | 22 31 | 0 53 | 7 21 | 7 10 | 11 32 | | | n.a. |
| T 23 | 10 46 | 15 50 | 3 0 | 2 12 | 2 10 | 6 46 | 1 36 | 10 53 | 1 29 | 14 48 | 1 7 | 8 19 | 2 9 | 15 41 | 0 44 | 21 13 | 0 12 | 22 31 | 0 53 | 7 21 | 7 9 | 11 30 | | | n.a. |
| F 24 | 11 8 | 17 44 | 3 55 | 2 11 | 2 17 | 6 19 | 1 38 | 10 40 | 1 30 | 14 45 | 1 7 | 8 16 | 2 9 | 15 40 | 0 44 | 21 13 | 0 12 | 22 31 | 0 53 | 7 20 | 7 8 | 11 28 | | | n.a. |
| S 25 | 11 30 | 18 40 | 4 36 | 2 15 | 2 21 | 5 53 | 1 40 | 10 27 | 1 30 | 14 43 | 1 7 | 8 14 | 2 10 | 15 40 | 0 44 | 21 13 | 0 12 | 22 31 | 0 53 | 7 20 | 7 6 | 11 27 | | | n.a. |
| S 26 | 11 52 | 18 38 | 5 3 | 2 24 | 2 24 | 5 26 | 1 42 | 10 13 | 1 30 | 14 41 | 1 7 | 8 12 | 2 10 | 15 39 | 0 44 | 21 13 | 0 12 | 22 31 | 0 53 | 7 19 | 7 5 | 11 25 | | | n.a. |
| M27 | 12 13 | 17 44 | 5 16 | 2 38 | 2 26 | 5 0 | 1 44 | 10 0 | 1 31 | 14 38 | 1 7 | 8 10 | 2 10 | 15 39 | 0 44 | 21 13 | 0 12 | 22 31 | 0 53 | 7 19 | 7 4 | 11 24 | | | n.a. |
| T 28 | 12 34 | 16 2 | 5 14 | 2 55 | 2 27 | 4 33 | 1 45 | 9 46 | 1 31 | 14 36 | 1 7 | 8 8 | 2 10 | 15 38 | 0 44 | 21 13 | 0 12 | 22 31 | 0 53 | 7 18 | 7 3 | 11 22 | | | n.a. |
| W29 | 12 55 | 13 41 | 4 58 | 3 16 | 2 26 | 4 5 | 1 47 | 9 33 | 1 31 | 14 33 | 1 7 | 8 6 | 2 10 | 15 38 | 0 44 | 21 13 | 0 12 | 22 31 | 0 53 | 7 18 | 7 1 | 11 20 | | | n.a. |
| T 30 | 13 16 | 10 46 | 4 31 | 3 40 | 2 25 | 3 38 | 1 48 | 9 19 | 1 31 | 14 31 | 1 7 | 8 4 | 2 11 | 15 37 | 0 44 | 21 13 | 0 12 | 22 31 | 0 53 | 7 19 | 7 0 | 11 19 | | | n.a. |
| F 31 | 13s36 | 7s24 | 3n51 | 4s 6 | 2n22 | 3n10 | 1n50 | 9n 6 | 1n32 | 14n29 | 1s 6 | 8n 2 | 2n11 | 15n37 | 0n44 | 21n13 | 0n12 | 22n31 | 0s53 | 7s19 | 6s59 | 11s17 | | | n.a. |

Julian Day Number = 1702338.5, Delta T = 03h04m55s
Ecliptic obliquity = 23°41'57, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°47'05, Lahiri = - 4°40'05 Julian Calendar 1 Oct. 53 BCE == Greg. Calendar 29 Sept. 053 BCE

The year -52 astronomical counting style corresponds to year 053 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 53 BCE
# geocentric

## NOVEMBER 53 BCE (-52) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 31 27 | 6♏50'19 | 13♓38 | 16♎55 | 27♍29 | 11♍10 | 11°R38 | 14♍57 | 20♌11 | 26°R47 | 20°R56 | 18♎30 | 17♎33 | 18♒27 | n.a. | S 1 |
| S 2 | 2 35 23 | 7°51'16 | 25°47 | 18° 6 | 28°42 | 11°46 | 11♉30 | 15° 2 | 20°13 | 26♋47 | 20♊55 | 18°32 | 17°30 | 18°34 | n.a. | S 2 |
| M 3 | 2 39 20 | 8°52'14 | 8♈ 8 | 19°19 | 29°54 | 12°22 | 11°22 | 15° 7 | 20°14 | 26°47 | 20°54 | 18°33 | 17°27 | 18°41 | n.a. | M 3 |
| T 4 | 2 43 16 | 9°53'13 | 20°46 | 20°35 | 1♏ 6 | 12°58 | 11°14 | 15°13 | 20°15 | 26°47 | 20°53 | 18°R33 | 17°24 | 18°47 | n.a. | T 4 |
| W 5 | 2 47 13 | 10°54'13 | 3♉41 | 21°53 | 2°19 | 13°34 | 11° 5 | 15°18 | 20°17 | 26°47 | 20°52 | 18°33 | 17°21 | 18°54 | n.a. | W 5 |
| T 6 | 2 51 9 | 11°55'14 | 16°54 | 23°14 | 3°32 | 14°10 | 10°57 | 15°23 | 20°18 | 26°47 | 20°51 | 18°31 | 17°17 | 19° 1 | n.a. | T 6 |
| F 7 | 2 55 6 | 12°56'15 | 0♊23 | 24°36 | 4°44 | 14°46 | 10°49 | 15°28 | 20°19 | 26°47 | 20°50 | 18°28 | 17°14 | 19° 8 | n.a. | F 7 |
| S 8 | 2 59 3 | 13°57'19 | 14° 6 | 25°59 | 5°57 | 15°22 | 10°41 | 15°33 | 20°20 | 26°46 | 20°49 | 18°24 | 17°11 | 19°14 | n.a. | S 8 |
| S 9 | 3 2 59 | 14°58'23 | 28° 1 | 27°24 | 7°10 | 15°58 | 10°33 | 15°38 | 20°21 | 26°46 | 20°48 | 18°20 | 17° 8 | 19°21 | n.a. | S 9 |
| M10 | 3 6 56 | 15°59'28 | 12♋ 3 | 28°50 | 8°23 | 16°33 | 10°25 | 15°42 | 20°22 | 26°46 | 20°47 | 18°16 | 17° 5 | 19°28 | n.a. | M10 |
| T 11 | 3 10 52 | 17° 0'34 | 26°11 | 0♏16 | 9°36 | 17° 9 | 10°16 | 15°47 | 20°23 | 26°45 | 20°46 | 18°13 | 17° 1 | 19°34 | n.a. | T 11 |
| W12 | 3 14 49 | 18° 1'41 | 10♌21 | 1°44 | 10°49 | 17°45 | 10° 8 | 15°52 | 20°24 | 26°45 | 20°45 | 18°12 | 16°58 | 19°41 | n.a. | W12 |
| T 13 | 3 18 45 | 19° 2'50 | 24°31 | 3°12 | 12° 2 | 18°20 | 10° 0 | 15°56 | 20°25 | 26°45 | 20°44 | 18°D11 | 16°55 | 19°48 | n.a. | T 13 |
| F 14 | 3 22 42 | 20° 3'59 | 8♍38 | 4°41 | 13°15 | 18°56 | 9°52 | 16° 1 | 20°26 | 26°44 | 20°43 | 18°12 | 16°52 | 19°54 | n.a. | F 14 |
| S 15 | 3 26 38 | 21° 5'10 | 22°43 | 6°10 | 14°29 | 19°32 | 9°45 | 16° 5 | 20°27 | 26°44 | 20°42 | 18°14 | 16°49 | 20° 1 | n.a. | S 15 |
| S 16 | 3 30 35 | 22° 6'21 | 6♎42 | 7°40 | 15°42 | 20° 7 | 9°37 | 16°10 | 20°27 | 26°43 | 20°41 | 18°15 | 16°46 | 20° 8 | n.a. | S 16 |
| M17 | 3 34 32 | 23° 7'33 | 20°34 | 9°10 | 16°56 | 20°42 | 9°29 | 16°14 | 20°28 | 26°43 | 20°40 | 18°R16 | 16°42 | 20°15 | n.a. | M17 |
| T 18 | 3 38 28 | 24° 8'46 | 4♏17 | 10°41 | 18° 9 | 21°18 | 9°21 | 16°18 | 20°29 | 26°42 | 20°39 | 18°15 | 16°39 | 20°21 | n.a. | T 18 |
| W19 | 3 42 25 | 25° 9'59 | 17°49 | 12°12 | 19°23 | 21°53 | 9°14 | 16°22 | 20°29 | 26°42 | 20°38 | 18°12 | 16°36 | 20°28 | n.a. | W19 |
| T 20 | 3 46 21 | 26°11'13 | 1♐ 8 | 13°43 | 20°36 | 22°29 | 9° 6 | 16°26 | 20°30 | 26°41 | 20°37 | 18° 7 | 16°33 | 20°35 | n.a. | T 20 |
| F 21 | 3 50 18 | 27°12'28 | 14°11 | 15°14 | 21°50 | 23° 4 | 8°59 | 16°30 | 20°30 | 26°40 | 20°36 | 18° 0 | 16°30 | 20°41 | n.a. | F 21 |
| S 22 | 3 54 14 | 28°13'43 | 26°58 | 16°46 | 23° 3 | 23°39 | 8°51 | 16°34 | 20°30 | 26°40 | 20°34 | 17°53 | 16°27 | 20°48 | n.a. | S 22 |
| S 23 | 3 58 11 | 29°14'58 | 9♑28 | 18°18 | 24°17 | 24°14 | 8°44 | 16°38 | 20°31 | 26°39 | 20°33 | 17°45 | 16°23 | 20°55 | n.a. | S 23 |
| M24 | 4 2 7 | 0♐16'13 | 21°44 | 19°50 | 25°31 | 24°49 | 8°37 | 16°41 | 20°31 | 26°38 | 20°32 | 17°38 | 16°20 | 21° 1 | n.a. | M24 |
| T 25 | 4 6 4 | 1°17'29 | 3♒48 | 21°22 | 26°45 | 25°24 | 8°30 | 16°45 | 20°31 | 26°37 | 20°31 | 17°32 | 16°17 | 21° 8 | n.a. | T 25 |
| W26 | 4 10 1 | 2°18'44 | 15°43 | 22°55 | 27°59 | 25°59 | 8°23 | 16°48 | 20°31 | 26°37 | 20°30 | 17°29 | 16°14 | 21°15 | n.a. | W26 |
| T 27 | 4 13 57 | 3°19'59 | 27°33 | 24°28 | 29°12 | 26°34 | 8°16 | 16°52 | 20°31 | 26°36 | 20°28 | 17°27 | 16°11 | 21°22 | n.a. | T 27 |
| F 28 | 4 17 54 | 4°21'14 | 9♓24 | 26° 1 | 0♏26 | 27° 9 | 8°10 | 16°55 | 20°R31 | 26°35 | 20°27 | 17°D27 | 16° 7 | 21°28 | n.a. | F 28 |
| S 29 | 4 21 50 | 5°22'29 | 21°21 | 27°34 | 1°40 | 27°44 | 8° 3 | 16°58 | 20°31 | 26°34 | 20°26 | 17°28 | 16° 4 | 21°35 | n.a. | S 29 |
| S 30 | 4 25 47 | 6♐23'44 | 3♈29 | 29♏ 8 | 2♏54 | 28♍18 | 7♉57 | 17♍ 1 | 20♌31 | 26♋33 | 20♊25 | 17♎29 | 16♎ 1 | 21♒42 | n.a. | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 13s57 | 3s43 | 3n 1 | 4s35 | 2n19 | 2n42 | 1n51 | 8n52 | 1n32 | 14n26 | 1s 6 | 8n 0 | 2n11 | 15n36 | 0n44 | 21n13 | 0n12 | 22n31 | 0s53 | 7s20 | 6s58 | 11s15 | | n.a. |
| S 2 | 14 17 | 0n10 | 2 2 | 5 5 | 2 16 | 2 14 | 1 52 | 8 38 | 1 32 | 14 24 | 1 6 | 7 58 | 2 11 | 15 36 | 0 44 | 21 13 | 0 12 | 22 31 | 0 53 | 7 20 | 6 57 | 11 14 | | n.a. |
| M 3 | 14 37 | 4 8 | 0 57 | 5 37 | 2 11 | 1 46 | 1 54 | 8 25 | 1 32 | 14 21 | 1 6 | 7 56 | 2 11 | 15 36 | 0 44 | 21 13 | 0 12 | 22 31 | 0 53 | 7 21 | 6 55 | 11 12 | | n.a. |
| T 4 | 14 56 | 8 0 | 0s12 | 6 10 | 2 7 | 1 18 | 1 55 | 8 11 | 1 33 | 14 19 | 1 6 | 7 55 | 2 12 | 15 35 | 0 44 | 21 13 | 0 12 | 22 31 | 0 52 | 7 21 | 6 54 | 11 11 | | n.a. |
| W 5 | 15 16 | 11 35 | 1 22 | 6 45 | 2 1 | 0 50 | 1 56 | 7 57 | 1 33 | 14 16 | 1 6 | 7 53 | 2 12 | 15 35 | 0 44 | 21 13 | 0 12 | 22 31 | 0 52 | 7 21 | 6 53 | 11 9 | | n.a. |
| T 6 | 15 35 | 14 40 | 2 30 | 7 20 | 1 56 | 0 22 | 1 56 | 7 44 | 1 33 | 14 14 | 1 6 | 7 51 | 2 12 | 15 34 | 0 44 | 21 13 | 0 12 | 22 31 | 0 52 | 7 20 | 6 52 | 11 7 | | n.a. |
| F 7 | 15 53 | 17 2 | 3 30 | 7 56 | 1 50 | 0s 7 | 1 57 | 7 30 | 1 34 | 14 12 | 1 6 | 7 49 | 2 12 | 15 34 | 0 44 | 21 13 | 0 12 | 22 31 | 0 52 | 7 19 | 6 50 | 11 6 | | n.a. |
| S 8 | 16 12 | 18 27 | 4 19 | 8 32 | 1 44 | 0 35 | 1 58 | 7 16 | 1 34 | 14 9 | 1 5 | 7 47 | 2 13 | 15 34 | 0 44 | 21 13 | 0 12 | 22 30 | 0 52 | 7 17 | 6 49 | 11 4 | | n.a. |
| S 9 | 16 30 | 18 47 | 4 54 | 9 9 | 1 37 | 1 4 | 1 58 | 7 2 | 1 34 | 14 7 | 1 5 | 7 46 | 2 13 | 15 33 | 0 44 | 21 13 | 0 12 | 22 30 | 0 52 | 7 16 | 6 48 | 11 2 | | n.a. |
| M10 | 16 48 | 17 59 | 5 11 | 9 46 | 1 31 | 1 33 | 1 59 | 6 48 | 1 34 | 14 4 | 1 5 | 7 44 | 2 13 | 15 33 | 0 44 | 21 13 | 0 12 | 22 30 | 0 52 | 7 14 | 6 47 | 11 1 | | n.a. |
| T 11 | 17 6 | 16 4 | 5 10 | 10 23 | 1 24 | 2 1 | 1 59 | 6 35 | 1 35 | 14 2 | 1 5 | 7 42 | 2 13 | 15 33 | 0 44 | 21 14 | 0 12 | 22 30 | 0 52 | 7 13 | 6 45 | 10 59 | | n.a. |
| W12 | 17 23 | 13 11 | 4 50 | 11 0 | 1 17 | 2 30 | 1 59 | 6 21 | 1 35 | 14 0 | 1 5 | 7 41 | 2 13 | 15 33 | 0 44 | 21 14 | 0 12 | 22 30 | 0 52 | 7 13 | 6 44 | 10 58 | | n.a. |
| T 13 | 17 40 | 9 31 | 4 13 | 11 37 | 1 10 | 2 59 | 1 59 | 6 7 | 1 35 | 13 57 | 1 5 | 7 39 | 2 14 | 15 32 | 0 44 | 21 14 | 0 12 | 22 30 | 0 52 | 7 12 | 6 43 | 10 56 | | n.a. |
| F 14 | 17 57 | 5 20 | 3 20 | 12 14 | 1 3 | 3 27 | 1 59 | 5 53 | 1 35 | 13 55 | 1 5 | 7 38 | 2 14 | 15 32 | 0 45 | 21 14 | 0 12 | 22 30 | 0 52 | 7 13 | 6 42 | 10 54 | | n.a. |
| S 15 | 18 13 | 0 51 | 2 15 | 12 50 | 0 56 | 3 56 | 1 59 | 5 39 | 1 36 | 13 52 | 1 4 | 7 36 | 2 14 | 15 32 | 0 45 | 21 14 | 0 12 | 22 30 | 0 52 | 7 13 | 6 41 | 10 53 | | n.a. |
| S 16 | 18 30 | 3s39 | 1 3 | 13 27 | 0 49 | 4 25 | 1 59 | 5 25 | 1 36 | 13 50 | 1 4 | 7 35 | 2 14 | 15 32 | 0 45 | 21 14 | 0 12 | 22 30 | 0 52 | 7 14 | 6 39 | 10 51 | | n.a. |
| M17 | 18 45 | 7 55 | 0n13 | 14 3 | 0 42 | 4 53 | 1 59 | 5 11 | 1 36 | 13 48 | 1 4 | 7 33 | 2 15 | 15 32 | 0 45 | 21 14 | 0 12 | 22 30 | 0 52 | 7 14 | 6 38 | 10 49 | | n.a. |
| T 18 | 19 1 | 11 44 | 1 26 | 14 38 | 0 35 | 5 22 | 1 59 | 4 58 | 1 36 | 13 46 | 1 4 | 7 32 | 2 15 | 15 32 | 0 45 | 21 14 | 0 12 | 22 30 | 0 52 | 7 14 | 6 37 | 10 48 | | n.a. |
| W19 | 19 16 | 14 52 | 2 34 | 15 13 | 0 28 | 5 50 | 1 58 | 4 44 | 1 37 | 13 43 | 1 4 | 7 30 | 2 15 | 15 31 | 0 45 | 21 14 | 0 12 | 22 30 | 0 52 | 7 13 | 6 36 | 10 46 | | n.a. |
| T 20 | 19 30 | 17 9 | 3 32 | 15 48 | 0 21 | 6 19 | 1 58 | 4 30 | 1 37 | 13 41 | 1 3 | 7 29 | 2 15 | 15 31 | 0 45 | 21 15 | 0 12 | 22 30 | 0 52 | 7 11 | 6 34 | 10 45 | | n.a. |
| F 21 | 19 45 | 18 29 | 4 18 | 16 22 | 0 13 | 6 47 | 1 57 | 4 16 | 1 37 | 13 39 | 1 3 | 7 28 | 2 16 | 15 31 | 0 45 | 21 15 | 0 12 | 22 30 | 0 52 | 7 8 | 6 33 | 10 43 | | n.a. |
| S 22 | 19 59 | 18 51 | 4 49 | 16 55 | 0 6 | 7 15 | 1 57 | 4 2 | 1 37 | 13 37 | 1 3 | 7 26 | 2 16 | 15 31 | 0 45 | 21 15 | 0 12 | 22 30 | 0 52 | 7 5 | 6 32 | 10 41 | | n.a. |
| S 23 | 20 12 | 18 16 | 5 6 | 17 28 | 0s 0 | 7 43 | 1 56 | 3 48 | 1 38 | 13 35 | 1 3 | 7 25 | 2 16 | 15 31 | 0 45 | 21 15 | 0 12 | 22 30 | 0 51 | 7 2 | 6 31 | 10 40 | | n.a. |
| M24 | 20 26 | 16 51 | 5 8 | 18 0 | 0 7 | 8 11 | 1 55 | 3 34 | 1 38 | 13 32 | 1 3 | 7 24 | 2 16 | 15 31 | 0 45 | 21 15 | 0 12 | 22 30 | 0 51 | 7 0 | 6 29 | 10 38 | | n.a. |
| T 25 | 20 38 | 14 42 | 4 57 | 18 31 | 0 14 | 8 39 | 1 54 | 3 21 | 1 38 | 13 30 | 1 2 | 7 23 | 2 17 | 15 31 | 0 45 | 21 15 | 0 12 | 22 30 | 0 51 | 6 57 | 6 28 | 10 36 | | n.a. |
| W26 | 20 51 | 11 58 | 4 33 | 19 2 | 0 21 | 9 6 | 1 53 | 3 7 | 1 38 | 13 28 | 1 2 | 7 22 | 2 17 | 15 31 | 0 45 | 21 16 | 0 12 | 22 30 | 0 51 | 6 56 | 6 27 | 10 35 | | n.a. |
| T 27 | 21 3 | 8 45 | 3 57 | 19 32 | 0 27 | 9 34 | 1 52 | 2 53 | 1 38 | 13 26 | 1 2 | 7 21 | 2 17 | 15 31 | 0 45 | 21 16 | 0 12 | 22 30 | 0 51 | 6 55 | 6 26 | 10 33 | | n.a. |
| F 28 | 21 15 | 5 11 | 3 11 | 20 1 | 0 34 | 10 1 | 1 51 | 2 39 | 1 39 | 13 24 | 1 2 | 7 20 | 2 17 | 15 31 | 0 45 | 21 16 | 0 12 | 22 30 | 0 51 | 6 55 | 6 25 | 10 31 | | n.a. |
| S 29 | 21 26 | 1 23 | 2 16 | 20 29 | 0 40 | 10 28 | 1 50 | 2 25 | 1 39 | 13 23 | 1 1 | 7 19 | 2 18 | 15 31 | 0 45 | 21 16 | 0 12 | 22 30 | 0 51 | 6 56 | 6 23 | 10 30 | | n.a. |
| S 30 | 21s37 | 2n33 | 1n15 | 20s56 | 0s46 | 10s55 | 1n49 | 2n12 | 1n39 | 13n21 | 1s 1 | 7n18 | 2n18 | 15n31 | 0n45 | 21n16 | 0n12 | 22n30 | 0s51 | 6s56 | 6s22 | 10s28 | | n.a. |

Julian Day Number = 1702369.5, Delta T = 03h04m54s
Ecliptic obliquity = 23°41'56, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°47'01, Lahiri = - 4°40'01 Julian Calendar 1 Nov. 53 BCE == Greg. Calendar 30 Oct. 053 BCE

The year -52 astronomical counting style corresponds to year 053 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 53 BCE
# geocentric

## DECEMBER 53 BCE (-52) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 4 29 43 | 7♐24'59 | 15♈53 | 0♐42 | 4♏ 8 | 28♍53 | 7°R51 | 17♍ 4 | 20°R31 | 26°R32 | 20°R24 | 17°R30 | 15♎58 | 21♒48 | n.a. | M 1 |
| T 2 | 4 33 40 | 8°26'13 | 28°37 | 2°16 | 5°22 | 29°28 | 7♉45 | 17° 7 | 20♌31 | 26♋31 | 20♊22 | 17♎29 | 15°55 | 21°55 | n.a. | T 2 |
| W 3 | 4 37 36 | 9°27'27 | 11♉43 | 3°50 | 6°36 | 0♎ 2 | 7°39 | 17°10 | 20°31 | 26°30 | 20°21 | 17°27 | 15°52 | 22° 2 | n.a. | W 3 |
| T 4 | 4 41 33 | 10°28'42 | 25°13 | 5°25 | 7°51 | 0°37 | 7°33 | 17°12 | 20°30 | 26°29 | 20°20 | 17°21 | 15°48 | 22° 8 | n.a. | T 4 |
| F 5 | 4 45 30 | 11°29'55 | 9♊ 6 | 7° 1 | 9° 5 | 1°11 | 7°27 | 17°15 | 20°30 | 26°28 | 20°19 | 17°14 | 15°45 | 22°15 | n.a. | F 5 |
| S 6 | 4 49 26 | 12°31'09 | 23°17 | 8°36 | 10°19 | 1°46 | 7°22 | 17°18 | 20°30 | 26°27 | 20°17 | 17° 5 | 15°42 | 22°22 | n.a. | S 6 |
| S 7 | 4 53 23 | 13°32'23 | 7♋42 | 10°12 | 11°33 | 2°20 | 7°17 | 17°20 | 20°29 | 26°26 | 20°16 | 16°55 | 15°39 | 22°29 | n.a. | S 7 |
| M 8 | 4 57 19 | 14°33'37 | 22°14 | 11°48 | 12°47 | 2°54 | 7°11 | 17°22 | 20°28 | 26°25 | 20°15 | 16°46 | 15°36 | 22°35 | n.a. | M 8 |
| T 9 | 5 1 16 | 15°34'50 | 6♌46 | 13°25 | 14° 2 | 3°28 | 7° 6 | 17°25 | 20°28 | 26°24 | 20°13 | 16°39 | 15°33 | 22°42 | n.a. | T 9 |
| W10 | 5 5 12 | 16°36'03 | 21°12 | 15° 2 | 15°16 | 4° 2 | 7° 2 | 17°27 | 20°27 | 26°22 | 20°12 | 16°34 | 15°29 | 22°49 | n.a. | W10 |
| T 11 | 5 9 9 | 17°37'17 | 5♍29 | 16°39 | 16°30 | 4°37 | 6°57 | 17°29 | 20°27 | 26°21 | 20°11 | 16°31 | 15°26 | 22°55 | n.a. | T 11 |
| F 12 | 5 13 6 | 18°38'30 | 19°34 | 18°17 | 17°44 | 5°10 | 6°53 | 17°31 | 20°26 | 26°20 | 20°10 | 16°D30 | 15°23 | 23° 2 | n.a. | F 12 |
| S 13 | 5 17 2 | 19°39'43 | 3♎27 | 19°56 | 18°59 | 5°44 | 6°49 | 17°32 | 20°25 | 26°19 | 20° 8 | 16°31 | 15°20 | 23° 9 | n.a. | S 13 |
| S 14 | 5 20 59 | 20°40'56 | 17° 7 | 21°35 | 20°13 | 6°18 | 6°44 | 17°34 | 20°24 | 26°17 | 20° 7 | 16°R31 | 15°17 | 23°15 | n.a. | S 14 |
| M15 | 5 24 55 | 21°42'09 | 0♏35 | 23°14 | 21°27 | 6°52 | 6°41 | 17°36 | 20°23 | 26°16 | 20° 6 | 16°30 | 15°13 | 23°22 | n.a. | M15 |
| T 16 | 5 28 52 | 22°43'21 | 13°53 | 24°54 | 22°42 | 7°26 | 6°37 | 17°37 | 20°22 | 26°15 | 20° 5 | 16°27 | 15°10 | 23°29 | n.a. | T 16 |
| W17 | 5 32 48 | 23°44'33 | 27° 0 | 26°34 | 23°56 | 7°59 | 6°33 | 17°38 | 20°21 | 26°13 | 20° 3 | 16°21 | 15° 7 | 23°36 | n.a. | W17 |
| T 18 | 5 36 45 | 24°45'45 | 9♐56 | 28°15 | 25°11 | 8°33 | 6°30 | 17°40 | 20°20 | 26°12 | 20° 2 | 16°12 | 15° 4 | 23°42 | n.a. | T 18 |
| F 19 | 5 40 41 | 25°46'56 | 22°42 | 29°56 | 26°25 | 9° 6 | 6°27 | 17°41 | 20°19 | 26°11 | 20° 1 | 16° 0 | 15° 1 | 23°49 | n.a. | F 19 |
| S 20 | 5 44 38 | 26°48'06 | 5♑15 | 1♑38 | 27°40 | 9°39 | 6°24 | 17°42 | 20°18 | 26° 9 | 19°59 | 15°47 | 14°58 | 23°56 | n.a. | S 20 |
| S 21 | 5 48 35 | 27°49'16 | 17°37 | 3°20 | 28°54 | 10°13 | 6°22 | 17°43 | 20°17 | 26° 8 | 19°58 | 15°34 | 14°54 | 24° 2 | n.a. | S 21 |
| M22 | 5 52 31 | 28°50'25 | 29°47 | 5° 2 | 0♐ 9 | 10°46 | 6°19 | 17°44 | 20°15 | 26° 6 | 19°57 | 15°21 | 14°51 | 24° 9 | n.a. | M22 |
| T 23 | 5 56 28 | 29°51'32 | 11♒48 | 6°45 | 1°23 | 11°19 | 6°17 | 17°44 | 20°14 | 26° 5 | 19°56 | 15°10 | 14°48 | 24°16 | n.a. | T 23 |
| W24 | 6 0 24 | 0♑52'39 | 23°41 | 8°29 | 2°37 | 11°52 | 6°15 | 17°45 | 20°13 | 26° 4 | 19°54 | 15° 1 | 14°45 | 24°22 | n.a. | W24 |
| T 25 | 6 4 21 | 1°53'44 | 5♓29 | 10°12 | 3°52 | 12°25 | 6°13 | 17°46 | 20°11 | 26° 2 | 19°53 | 14°55 | 14°42 | 24°29 | n.a. | T 25 |
| F 26 | 6 8 17 | 2°54'49 | 17°18 | 11°56 | 5° 6 | 12°57 | 6°11 | 17°46 | 20°10 | 26° 1 | 19°52 | 14°52 | 14°38 | 24°36 | n.a. | F 26 |
| S 27 | 6 12 14 | 3°55'52 | 29°12 | 13°40 | 6°21 | 13°30 | 6°10 | 17°46 | 20° 8 | 25°59 | 19°51 | 14°51 | 14°35 | 24°42 | n.a. | S 27 |
| S 28 | 6 16 10 | 4°56'54 | 11♈17 | 15°24 | 7°35 | 14° 3 | 6° 8 | 17°47 | 20° 7 | 25°57 | 19°49 | 14°51 | 14°32 | 24°49 | n.a. | S 28 |
| M29 | 6 20 7 | 5°57'54 | 23°37 | 17° 8 | 8°50 | 14°35 | 6° 7 | 17°R47 | 20° 5 | 25°56 | 19°48 | 14°51 | 14°29 | 24°56 | n.a. | M29 |
| T 30 | 6 24 4 | 6°58'54 | 6♉19 | 18°51 | 10° 4 | 15° 7 | 6° 7 | 17°47 | 20° 3 | 25°54 | 19°47 | 14°50 | 14°26 | 25° 3 | n.a. | T 30 |
| W31 | 6 28 0 | 7♑59'52 | 19♉27 | 20♑34 | 11♐19 | 15♎40 | 6♉ 6 | 17♍46 | 20♌ 2 | 25♋53 | 19♊46 | 14♎46 | 14♎23 | 25♒ 9 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| M 1 | 21s47 | 6n27 | 0n 9 | 21s22 | 0s52 | 11s21 | 1n47 | 1n58 | 1n39 | 13n19 | 1s 1 | 7n17 | 2n18 | 15n31 | 0n45 | 21n17 | 0n12 | 22n30 | 0s51 | 6s56 | 6s21 | 10s26 | | | n.a. |
| T 2 | 21 57 | 10 10 | 1s 0 | 21 47 | 0 58 | 11 48 | 1 46 | 1 44 | 1 40 | 13 17 | 1 1 | 7 16 | 2 19 | 15 31 | 0 45 | 21 17 | 0 12 | 22 30 | 0 51 | 6 56 | 6 20 | 10 25 | | | n.a. |
| W 3 | 22 7 | 13 31 | 2 6 | 22 11 | 1 4 | 12 14 | 1 44 | 1 30 | 1 40 | 13 15 | 1 0 | 7 15 | 2 19 | 15 32 | 0 45 | 21 17 | 0 12 | 22 30 | 0 51 | 6 55 | 6 18 | 10 23 | | | n.a. |
| T 4 | 22 16 | 16 14 | 3 8 | 22 34 | 1 9 | 12 39 | 1 43 | 1 17 | 1 40 | 13 14 | 1 0 | 7 14 | 2 19 | 15 32 | 0 45 | 21 17 | 0 12 | 22 30 | 0 51 | 6 53 | 6 17 | 10 21 | | | n.a. |
| F 5 | 22 24 | 18 5 | 4 1 | 22 56 | 1 14 | 13 5 | 1 41 | 1 3 | 1 40 | 13 12 | 1 0 | 7 13 | 2 19 | 15 32 | 0 45 | 21 17 | 0 12 | 22 30 | 0 51 | 6 50 | 6 16 | 10 20 | | | n.a. |
| S 6 | 22 33 | 18 53 | 4 39 | 23 17 | 1 20 | 13 30 | 1 39 | 0 49 | 1 40 | 13 11 | 1 0 | 7 13 | 2 20 | 15 32 | 0 46 | 21 18 | 0 12 | 22 30 | 0 51 | 6 47 | 6 15 | 10 18 | | | n.a. |
| S 7 | 22 40 | 18 28 | 5 1 | 23 37 | 1 24 | 13 55 | 1 38 | 0 36 | 1 41 | 13 9 | 0 59 | 7 12 | 2 20 | 15 32 | 0 46 | 21 18 | 0 12 | 22 30 | 0 51 | 6 43 | 6 13 | 10 16 | | | n.a. |
| M 8 | 22 48 | 16 51 | 5 3 | 23 55 | 1 29 | 14 19 | 1 36 | 0 22 | 1 41 | 13 8 | 0 59 | 7 11 | 2 20 | 15 32 | 0 46 | 21 18 | 0 12 | 22 30 | 0 51 | 6 40 | 6 12 | 10 15 | | | n.a. |
| T 9 | 22 55 | 14 10 | 4 46 | 24 12 | 1 34 | 14 43 | 1 34 | 0 9 | 1 41 | 13 6 | 0 59 | 7 11 | 2 20 | 15 33 | 0 46 | 21 18 | 0 12 | 22 30 | 0 51 | 6 37 | 6 11 | 10 13 | | | n.a. |
| W10 | 23 1 | 10 37 | 4 11 | 24 28 | 1 38 | 15 7 | 1 32 | 0s 5 | 1 41 | 13 5 | 0 59 | 7 10 | 2 21 | 15 33 | 0 46 | 21 19 | 0 12 | 22 30 | 0 51 | 6 35 | 6 10 | 10 11 | | | n.a. |
| T 11 | 23 7 | 6 29 | 3 21 | 24 42 | 1 42 | 15 31 | 1 30 | 0 18 | 1 41 | 13 4 | 0 58 | 7 10 | 2 21 | 15 33 | 0 46 | 21 19 | 0 12 | 22 30 | 0 50 | 6 34 | 6 8 | 10 10 | | | n.a. |
| F 12 | 23 12 | 2 3 | 2 19 | 24 55 | 1 45 | 15 54 | 1 28 | 0 32 | 1 42 | 13 3 | 0 58 | 7 9 | 2 21 | 15 33 | 0 46 | 21 19 | 0 12 | 22 30 | 0 50 | 6 33 | 6 7 | 10 8 | | | n.a. |
| S 13 | 23 17 | 2s26 | 1 9 | 25 7 | 1 49 | 16 16 | 1 26 | 0 45 | 1 42 | 13 1 | 0 58 | 7 9 | 2 22 | 15 34 | 0 46 | 21 19 | 0 12 | 22 29 | 0 50 | 6 34 | 6 6 | 10 6 | | | n.a. |
| S 14 | 23 22 | 6 45 | 0n 3 | 25 17 | 1 52 | 16 39 | 1 24 | 0 58 | 1 42 | 13 0 | 0 58 | 7 8 | 2 22 | 15 34 | 0 46 | 21 20 | 0 12 | 22 29 | 0 50 | 6 34 | 6 5 | 10 5 | | | n.a. |
| M15 | 23 26 | 10 39 | 1 14 | 25 26 | 1 55 | 17 0 | 1 22 | 1 12 | 1 42 | 12 59 | 0 57 | 7 8 | 2 22 | 15 34 | 0 46 | 21 20 | 0 12 | 22 29 | 0 50 | 6 33 | 6 4 | 10 3 | | | n.a. |
| T 16 | 23 30 | 13 57 | 2 20 | 25 33 | 1 57 | 17 22 | 1 20 | 1 25 | 1 42 | 12 58 | 0 57 | 7 8 | 2 22 | 15 35 | 0 46 | 21 20 | 0 13 | 22 29 | 0 50 | 6 32 | 6 2 | 10 1 | | | n.a. |
| W17 | 23 33 | 16 30 | 3 18 | 25 38 | 1 59 | 17 43 | 1 17 | 1 38 | 1 42 | 12 58 | 0 57 | 7 7 | 2 23 | 15 35 | 0 46 | 21 20 | 0 13 | 22 29 | 0 50 | 6 30 | 6 1 | 10 0 | | | n.a. |
| T 18 | 23 36 | 18 10 | 4 4 | 25 42 | 2 1 | 18 3 | 1 15 | 1 51 | 1 43 | 12 57 | 0 56 | 7 7 | 2 23 | 15 36 | 0 46 | 21 21 | 0 13 | 22 29 | 0 50 | 6 26 | 6 0 | 9 58 | | | n.a. |
| F 19 | 23 38 | 18 53 | 4 37 | 25 44 | 2 2 | 18 23 | 1 13 | 2 4 | 1 43 | 12 56 | 0 56 | 7 7 | 2 23 | 15 36 | 0 46 | 21 21 | 0 13 | 22 29 | 0 50 | 6 22 | 5 59 | 9 56 | | | n.a. |
| S 20 | 23 40 | 18 40 | 4 56 | 25 44 | 2 3 | 18 43 | 1 10 | 2 17 | 1 43 | 12 55 | 0 56 | 7 7 | 2 24 | 15 36 | 0 46 | 21 21 | 0 13 | 22 29 | 0 50 | 6 17 | 5 57 | 9 55 | | | n.a. |
| S 21 | 23 41 | 17 33 | 5 1 | 25 43 | 2 3 | 19 2 | 1 8 | 2 31 | 1 43 | 12 55 | 0 56 | 7 7 | 2 24 | 15 37 | 0 46 | 21 21 | 0 13 | 22 29 | 0 50 | 6 11 | 5 56 | 9 53 | | | n.a. |
| M22 | 23 42 | 15 40 | 4 52 | 25 40 | 2 4 | 19 20 | 1 5 | 2 43 | 1 43 | 12 54 | 0 55 | 7 7 | 2 24 | 15 37 | 0 46 | 21 22 | 0 13 | 22 29 | 0 50 | 6 6 | 5 55 | 9 51 | | | n.a. |
| T 23 | 23 42 | 13 7 | 4 30 | 25 34 | 2 3 | 19 38 | 1 3 | 2 56 | 1 43 | 12 54 | 0 55 | 7 6 | 2 24 | 15 38 | 0 46 | 21 22 | 0 13 | 22 29 | 0 50 | 6 2 | 5 54 | 9 50 | | | n.a. |
| W24 | 23 42 | 10 4 | 3 56 | 25 27 | 2 2 | 19 55 | 1 0 | 3 9 | 1 43 | 12 53 | 0 55 | 7 6 | 2 25 | 15 38 | 0 46 | 21 22 | 0 13 | 22 29 | 0 50 | 5 59 | 5 52 | 9 48 | | | n.a. |
| T 25 | 23 41 | 6 37 | 3 13 | 25 18 | 2 1 | 20 12 | 0 58 | 3 22 | 1 44 | 12 53 | 0 55 | 7 7 | 2 25 | 15 39 | 0 46 | 21 23 | 0 13 | 22 29 | 0 50 | 5 56 | 5 51 | 9 46 | | | n.a. |
| F 26 | 23 40 | 2 55 | 2 21 | 25 8 | 1 59 | 20 29 | 0 55 | 3 35 | 1 44 | 12 52 | 0 54 | 7 7 | 2 25 | 15 39 | 0 46 | 21 23 | 0 13 | 22 29 | 0 49 | 5 55 | 5 50 | 9 45 | | | n.a. |
| S 27 | 23 38 | 0n56 | 1 22 | 24 55 | 1 56 | 20 44 | 0 53 | 3 47 | 1 44 | 12 52 | 0 54 | 7 7 | 2 26 | 15 40 | 0 46 | 21 23 | 0 13 | 22 29 | 0 49 | 5 55 | 5 49 | 9 43 | | | n.a. |
| S 28 | 23 36 | 4 48 | 0 19 | 24 40 | 1 53 | 20 59 | 0 50 | 4 0 | 1 44 | 12 52 | 0 54 | 7 7 | 2 26 | 15 40 | 0 46 | 21 24 | 0 13 | 22 29 | 0 49 | 5 55 | 5 47 | 9 41 | | | n.a. |
| M29 | 23 34 | 8 33 | 0s46 | 24 23 | 1 49 | 21 14 | 0 47 | 4 13 | 1 44 | 12 52 | 0 53 | 7 7 | 2 26 | 15 41 | 0 46 | 21 24 | 0 13 | 22 29 | 0 49 | 5 55 | 5 46 | 9 40 | | | n.a. |
| T 30 | 23 31 | 12 2 | 1 51 | 24 5 | 1 45 | 21 28 | 0 45 | 4 25 | 1 44 | 12 52 | 0 53 | 7 7 | 2 27 | 15 41 | 0 46 | 21 24 | 0 13 | 22 29 | 0 49 | 5 54 | 5 45 | 9 38 | | | n.a. |
| W31 | 23s27 | 15n 1 | 2s52 | 23s44 | 1s39 | 21s41 | 0n42 | 4s38 | 1n44 | 12n52 | 0s53 | 7n 8 | 2n27 | 15n42 | 0n47 | 21n24 | 0n13 | 22n29 | 0s49 | 5s53 | 5s44 | 9s36 | | | n.a. |

Julian Day Number = 1702399.5, Delta T = 03h04m54s
Ecliptic obliquity = 23°41'55, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°46'57, Lahiri = - 4°39'57 Julian Calendar 1 Dec. 53 BCE == Greg. Calendar 29 Nov. 053 BCE

The year -52 astronomical counting style corresponds to year 053 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 52 BCE
# geocentric

## JANUARY 52 BCE (-51) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 31 57 | 9♑ 0'48 | 3♊ 2 | 22♑16 | 12♐33 | 16♎12 | 6°R 5 | 17°R46 | 20°R 0 | 25°R51 | 19°R45 | 14°R39 | 14♎19 | 25♒16 | n.a. | T 1 |
| F 2 | 6 35 53 | 10° 1'44 | 17° 6 | 23°57 | 13°48 | 16°44 | 6♉ 5 | 17♍46 | 19♏58 | 25♋50 | 19♊43 | 14♎30 | 14°16 | 25°23 | n.a. | F 2 |
| S 3 | 6 39 50 | 11° 2'38 | 1♋35 | 25°37 | 15° 2 | 17°16 | 6°D 5 | 17°46 | 19°56 | 25°48 | 19°42 | 14°19 | 14°13 | 25°29 | n.a. | S 3 |
| S 4 | 6 43 46 | 12° 3'31 | 16°23 | 27°16 | 16°17 | 17°47 | 6° 5 | 17°45 | 19°55 | 25°46 | 19°41 | 14° 7 | 14°10 | 25°36 | n.a. | S 4 |
| M 5 | 6 47 43 | 13° 4'22 | 1♌21 | 28°52 | 17°32 | 18°19 | 6° 6 | 17°44 | 19°53 | 25°45 | 19°40 | 13°55 | 14° 7 | 25°43 | n.a. | M 5 |
| T 6 | 6 51 39 | 14° 5'12 | 16°21 | 0♒25 | 18°46 | 18°51 | 6° 6 | 17°44 | 19°51 | 25°43 | 19°39 | 13°45 | 14° 4 | 25°49 | n.a. | T 6 |
| W 7 | 6 55 36 | 15° 6'01 | 1♍12 | 1°56 | 20° 1 | 19°22 | 6° 7 | 17°43 | 19°49 | 25°41 | 19°38 | 13°38 | 14° 0 | 25°56 | n.a. | W 7 |
| T 8 | 6 59 33 | 16° 6'49 | 15°47 | 3°23 | 21°15 | 19°53 | 6° 8 | 17°42 | 19°47 | 25°40 | 19°36 | 13°34 | 13°57 | 26° 3 | n.a. | T 8 |
| F 9 | 7 3 29 | 17° 7'36 | 0♎ 4 | 4°46 | 22°30 | 20°25 | 6° 9 | 17°41 | 19°45 | 25°38 | 19°35 | 13°32 | 13°54 | 26° 9 | n.a. | F 9 |
| S 10 | 7 7 26 | 18° 8'22 | 14° 0 | 6° 3 | 23°44 | 20°56 | 6°11 | 17°40 | 19°43 | 25°37 | 19°34 | 13°31 | 13°51 | 26°16 | n.a. | S 10 |
| S 11 | 7 11 22 | 19° 9'06 | 27°36 | 7°15 | 24°59 | 21°27 | 6°12 | 17°38 | 19°41 | 25°35 | 19°33 | 13°31 | 13°48 | 26°23 | n.a. | S 11 |
| M12 | 7 15 19 | 20° 9'50 | 10♏54 | 8°21 | 26°13 | 21°57 | 6°14 | 17°37 | 19°38 | 25°33 | 19°32 | 13°30 | 13°44 | 26°30 | n.a. | M12 |
| T 13 | 7 19 15 | 21°10'32 | 23°56 | 9°19 | 27°28 | 22°28 | 6°16 | 17°35 | 19°36 | 25°32 | 19°31 | 13°26 | 13°41 | 26°36 | n.a. | T 13 |
| W14 | 7 23 12 | 22°11'13 | 6♐44 | 10°10 | 28°42 | 22°58 | 6°18 | 17°34 | 19°34 | 25°30 | 19°30 | 13°20 | 13°38 | 26°43 | n.a. | W14 |
| T 15 | 7 27 8 | 23°11'53 | 19°21 | 10°51 | 29°57 | 23°29 | 6°21 | 17°32 | 19°32 | 25°28 | 19°29 | 13°11 | 13°35 | 26°50 | n.a. | T 15 |
| F 16 | 7 31 5 | 24°12'31 | 1♑49 | 11°24 | 1♑11 | 23°59 | 6°23 | 17°30 | 19°30 | 25°26 | 19°28 | 12°59 | 13°32 | 26°56 | n.a. | F 16 |
| S 17 | 7 35 2 | 25°13'08 | 14° 6 | 11°47 | 2°26 | 24°29 | 6°26 | 17°29 | 19°27 | 25°25 | 19°27 | 12°45 | 13°29 | 27° 3 | n.a. | S 17 |
| S 18 | 7 38 58 | 26°13'43 | 26°16 | 12° 0 | 3°40 | 24°59 | 6°29 | 17°27 | 19°25 | 25°23 | 19°26 | 12°30 | 13°25 | 27°10 | n.a. | S 18 |
| M19 | 7 42 55 | 27°14'16 | 8♒18 | 12°R 2 | 4°55 | 25°29 | 6°32 | 17°25 | 19°23 | 25°21 | 19°25 | 12°17 | 13°22 | 27°16 | n.a. | M19 |
| T 20 | 7 46 51 | 28°14'48 | 20°13 | 11°55 | 6°10 | 25°58 | 6°35 | 17°22 | 19°20 | 25°20 | 19°24 | 12° 5 | 13°19 | 27°23 | n.a. | T 20 |
| W21 | 7 50 48 | 29°15'18 | 2♓ 3 | 11°37 | 7°24 | 26°28 | 6°39 | 17°20 | 19°18 | 25°18 | 19°23 | 11°55 | 13°16 | 27°30 | n.a. | W21 |
| T 22 | 7 54 44 | 0♒15'46 | 13°51 | 11° 9 | 8°39 | 26°57 | 6°43 | 17°18 | 19°16 | 25°16 | 19°22 | 11°49 | 13°13 | 27°36 | n.a. | T 22 |
| F 23 | 7 58 41 | 1°16'12 | 25°39 | 10°32 | 9°53 | 27°26 | 6°46 | 17°15 | 19°13 | 25°15 | 19°21 | 11°45 | 13°10 | 27°43 | n.a. | F 23 |
| S 24 | 8 2 37 | 2°16'36 | 7♈32 | 9°47 | 11° 8 | 27°55 | 6°51 | 17°13 | 19°11 | 25°13 | 19°20 | 11°D44 | 13° 6 | 27°50 | n.a. | S 24 |
| S 25 | 8 6 34 | 3°16'58 | 19°35 | 8°55 | 12°22 | 28°23 | 6°55 | 17°10 | 19° 8 | 25°11 | 19°19 | 11°44 | 13° 3 | 27°56 | n.a. | S 25 |
| M26 | 8 10 31 | 4°17'18 | 1♉52 | 7°58 | 13°36 | 28°52 | 6°59 | 17° 8 | 19° 6 | 25°10 | 19°18 | 11°R45 | 13° 0 | 28° 3 | n.a. | M26 |
| T 27 | 8 14 27 | 5°17'36 | 14°29 | 6°57 | 14°51 | 29°20 | 7° 4 | 17° 5 | 19° 3 | 25° 8 | 19°18 | 11°44 | 12°57 | 28°10 | n.a. | T 27 |
| W28 | 8 18 24 | 6°17'51 | 27°31 | 5°53 | 16° 5 | 29°48 | 7° 9 | 17° 2 | 19° 1 | 25° 6 | 19°17 | 11°42 | 12°54 | 28°16 | n.a. | W28 |
| T 29 | 8 22 20 | 7°18'05 | 11♊ 1 | 4°48 | 17°20 | 0♏16 | 7°14 | 16°59 | 18°58 | 25° 5 | 19°16 | 11°38 | 12°50 | 28°23 | n.a. | T 29 |
| F 30 | 8 26 17 | 8°18'16 | 25° 2 | 3°45 | 18°34 | 0°44 | 7°19 | 16°56 | 18°56 | 25° 3 | 19°15 | 11°31 | 12°47 | 28°30 | n.a. | F 30 |
| S 31 | 8 30 13 | 9♒18'26 | 9♋32 | 2♒43 | 19♑49 | 1♏11 | 7♉24 | 16♍53 | 18♏53 | 25♋ 1 | 19♊14 | 11♎22 | 12♎44 | 28♒37 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | lat |
| T 1 | 23 s23 | 17n18 | 3 s45 | 23 s22 | 1 s33 | 21 s54 | 0n39 | 4 s50 | 1n44 | 12n52 | 0 s53 | 7n 8 | 2n27 | 15n42 | 0n47 | 21n25 | 0n13 | 22n29 | 0 s49 | 5 s50 | 5 s42 | 9 s35 | | | n.a. |
| F 2 | 23 19 | 18 38 | 4 27 | 22 58 | 1 27 | 22 6 | 0 37 | 5 2 | 1 44 | 12 52 | 0 52 | 7 9 | 2 27 | 15 43 | 0 47 | 21 25 | 0 13 | 22 29 | 0 49 | 5 47 | 5 41 | 9 33 | | | n.a. |
| S 3 | 23 14 | 18 48 | 4 53 | 22 33 | 1 19 | 22 17 | 0 34 | 5 14 | 1 45 | 12 53 | 0 52 | 7 9 | 2 28 | 15 44 | 0 47 | 21 25 | 0 13 | 22 29 | 0 49 | 5 42 | 5 40 | 9 31 | | | n.a. |
| S 4 | 23 9 | 17 43 | 5 0 | 22 5 | 1 11 | 22 28 | 0 31 | 5 27 | 1 45 | 12 53 | 0 52 | 7 9 | 2 28 | 15 44 | 0 47 | 21 26 | 0 13 | 22 29 | 0 49 | 5 37 | 5 39 | 9 29 | | | n.a. |
| M 5 | 23 3 | 15 25 | 4 47 | 21 37 | 1 2 | 22 38 | 0 29 | 5 39 | 1 45 | 12 53 | 0 51 | 7 10 | 2 28 | 15 45 | 0 47 | 21 26 | 0 13 | 22 29 | 0 49 | 5 33 | 5 37 | 9 28 | | | n.a. |
| T 6 | 22 57 | 12 5 | 4 14 | 21 7 | 0 52 | 22 47 | 0 26 | 5 51 | 1 45 | 12 54 | 0 51 | 7 11 | 2 28 | 15 46 | 0 47 | 21 26 | 0 13 | 22 29 | 0 49 | 5 29 | 5 36 | 9 26 | | | n.a. |
| W 7 | 22 50 | 8 0 | 3 24 | 20 36 | 0 41 | 22 56 | 0 23 | 6 3 | 1 45 | 12 54 | 0 51 | 7 11 | 2 29 | 15 46 | 0 47 | 21 27 | 0 13 | 22 29 | 0 49 | 5 26 | 5 35 | 9 24 | | | n.a. |
| T 8 | 22 43 | 3 30 | 2 21 | 20 5 | 0 29 | 23 4 | 0 20 | 6 15 | 1 45 | 12 55 | 0 51 | 7 12 | 2 29 | 15 47 | 0 47 | 21 27 | 0 13 | 22 29 | 0 49 | 5 24 | 5 34 | 9 23 | | | n.a. |
| F 9 | 22 35 | 1 s 6 | 1 11 | 19 33 | 0 16 | 23 11 | 0 18 | 6 26 | 1 45 | 12 56 | 0 50 | 7 12 | 2 29 | 15 48 | 0 47 | 21 27 | 0 13 | 22 29 | 0 48 | 5 24 | 5 32 | 9 21 | | | n.a. |
| S 10 | 22 27 | 5 32 | 0n 3 | 19 1 | 0 3 | 23 18 | 0 15 | 6 38 | 1 45 | 12 56 | 0 50 | 7 13 | 2 30 | 15 48 | 0 47 | 21 28 | 0 13 | 22 29 | 0 48 | 5 24 | 5 31 | 9 19 | | | n.a. |
| S 11 | 22 19 | 9 35 | 1 14 | 18 29 | 0n11 | 23 24 | 0 12 | 6 50 | 1 45 | 12 57 | 0 50 | 7 14 | 2 30 | 15 49 | 0 47 | 21 28 | 0 13 | 22 29 | 0 48 | 5 24 | 5 30 | 9 18 | | | n.a. |
| M12 | 22 10 | 13 3 | 2 19 | 17 57 | 0 26 | 23 29 | 0 10 | 7 1 | 1 45 | 12 58 | 0 49 | 7 15 | 2 30 | 15 50 | 0 47 | 21 28 | 0 13 | 22 29 | 0 48 | 5 23 | 5 29 | 9 16 | | | n.a. |
| T 13 | 22 1 | 15 47 | 3 16 | 17 27 | 0 42 | 23 34 | 0 7 | 7 13 | 1 45 | 12 59 | 0 49 | 7 15 | 2 30 | 15 50 | 0 47 | 21 29 | 0 13 | 22 29 | 0 48 | 5 22 | 5 27 | 9 14 | | | n.a. |
| W14 | 21 51 | 17 42 | 4 2 | 16 58 | 0 58 | 23 37 | 0 4 | 7 24 | 1 45 | 13 0 | 0 49 | 7 16 | 2 31 | 15 51 | 0 47 | 21 29 | 0 13 | 22 29 | 0 48 | 5 19 | 5 26 | 9 12 | | | n.a. |
| T 15 | 21 41 | 18 42 | 4 35 | 16 31 | 1 14 | 23 41 | 0 1 | 7 35 | 1 45 | 13 1 | 0 49 | 7 17 | 2 31 | 15 52 | 0 47 | 21 29 | 0 13 | 22 29 | 0 48 | 5 15 | 5 25 | 9 11 | | | n.a. |
| F 16 | 21 30 | 18 46 | 4 55 | 16 6 | 1 31 | 23 43 | 0 s 1 | 7 47 | 1 45 | 13 2 | 0 48 | 7 18 | 2 31 | 15 53 | 0 47 | 21 30 | 0 13 | 22 29 | 0 48 | 5 11 | 5 24 | 9 9 | | | n.a. |
| S 17 | 21 19 | 17 58 | 5 0 | 15 43 | 1 47 | 23 44 | 0 4 | 7 58 | 1 45 | 13 3 | 0 48 | 7 19 | 2 31 | 15 53 | 0 47 | 21 30 | 0 13 | 22 29 | 0 48 | 5 5 | 5 22 | 9 7 | | | n.a. |
| S 18 | 21 8 | 16 21 | 4 52 | 15 24 | 2 4 | 23 45 | 0 7 | 8 9 | 1 45 | 13 4 | 0 48 | 7 20 | 2 32 | 15 54 | 0 47 | 21 30 | 0 13 | 22 29 | 0 48 | 5 0 | 5 21 | 9 6 | | | n.a. |
| M19 | 20 56 | 14 2 | 4 31 | 15 7 | 2 20 | 23 46 | 0 9 | 8 20 | 1 45 | 13 6 | 0 48 | 7 21 | 2 32 | 15 55 | 0 47 | 21 31 | 0 13 | 22 29 | 0 48 | 4 54 | 5 20 | 9 4 | | | n.a. |
| T 20 | 20 44 | 11 9 | 3 57 | 14 54 | 2 36 | 23 45 | 0 12 | 8 31 | 1 45 | 13 7 | 0 47 | 7 22 | 2 32 | 15 56 | 0 47 | 21 31 | 0 13 | 22 29 | 0 48 | 4 50 | 5 19 | 9 2 | | | n.a. |
| W21 | 20 32 | 7 50 | 3 14 | 14 45 | 2 51 | 23 44 | 0 14 | 8 41 | 1 45 | 13 8 | 0 47 | 7 23 | 2 33 | 15 56 | 0 47 | 21 31 | 0 13 | 22 29 | 0 48 | 4 46 | 5 17 | 9 1 | | | n.a. |
| T 22 | 20 19 | 4 14 | 2 22 | 14 40 | 3 5 | 23 42 | 0 17 | 8 52 | 1 45 | 13 10 | 0 47 | 7 25 | 2 33 | 15 57 | 0 47 | 21 32 | 0 13 | 22 29 | 0 48 | 4 43 | 5 16 | 8 59 | | | n.a. |
| F 23 | 20 6 | 0 27 | 1 25 | 14 38 | 3 17 | 23 39 | 0 19 | 9 2 | 1 45 | 13 12 | 0 47 | 7 26 | 2 33 | 15 58 | 0 47 | 21 32 | 0 13 | 22 29 | 0 47 | 4 42 | 5 15 | 8 57 | | | n.a. |
| S 24 | 19 52 | 3n22 | 0 22 | 14 39 | 3 28 | 23 35 | 0 22 | 9 13 | 1 45 | 13 13 | 0 46 | 7 27 | 2 33 | 15 59 | 0 47 | 21 32 | 0 13 | 22 29 | 0 47 | 4 41 | 5 14 | 8 55 | | | n.a. |
| S 25 | 19 38 | 7 6 | 0 s42 | 14 45 | 3 36 | 23 31 | 0 24 | 9 23 | 1 45 | 13 15 | 0 46 | 7 28 | 2 33 | 16 0 | 0 47 | 21 33 | 0 13 | 22 29 | 0 47 | 4 41 | 5 12 | 8 54 | | | n.a. |
| M26 | 19 24 | 10 36 | 1 45 | 14 53 | 3 43 | 23 26 | 0 27 | 9 34 | 1 45 | 13 16 | 0 46 | 7 30 | 2 34 | 16 0 | 0 47 | 21 33 | 0 13 | 22 29 | 0 47 | 4 42 | 5 11 | 8 52 | | | n.a. |
| T 27 | 19 9 | 13 44 | 2 45 | 15 4 | 3 48 | 23 21 | 0 29 | 9 44 | 1 44 | 13 18 | 0 45 | 7 31 | 2 34 | 16 1 | 0 47 | 21 33 | 0 13 | 22 29 | 0 47 | 4 41 | 5 10 | 8 50 | | | n.a. |
| W28 | 18 54 | 16 16 | 3 39 | 15 17 | 3 50 | 23 14 | 0 32 | 9 54 | 1 44 | 13 20 | 0 45 | 7 32 | 2 34 | 16 2 | 0 47 | 21 33 | 0 13 | 22 29 | 0 47 | 4 41 | 5 9 | 8 49 | | | n.a. |
| T 29 | 18 39 | 18 1 | 4 22 | 15 33 | 3 50 | 23 7 | 0 34 | 10 4 | 1 44 | 13 22 | 0 45 | 7 34 | 2 34 | 16 3 | 0 47 | 21 34 | 0 13 | 22 29 | 0 47 | 4 39 | 5 7 | 8 47 | | | n.a. |
| F 30 | 18 23 | 18 45 | 4 52 | 15 50 | 3 48 | 23 0 | 0 36 | 10 14 | 1 44 | 13 24 | 0 45 | 7 35 | 2 35 | 16 4 | 0 47 | 21 34 | 0 13 | 22 29 | 0 47 | 4 36 | 5 6 | 8 45 | | | n.a. |
| S 31 | 18 s 7 | 18n18 | 5 s 4 | 16 s 8 | 3n44 | 22 s51 | 0 s39 | 10 s23 | 1n44 | 13n26 | 0 s44 | 7n36 | 2n35 | 16n 4 | 0n47 | 21n34 | 0n13 | 22n29 | 0 s47 | 4 s33 | 5 s 5 | 8 s43 | | | n.a. |

Julian Day Number = 1702430.5, Delta T = 03h04m53s
Ecliptic obliquity = 23°41'55, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°46'53, Lahiri = - 4°39'52 Julian Calendar 1 Jan. 52 BCE == Greg. Calendar 30 Dec. 053 BCE

The year -51 astronomical counting style corresponds to year 052 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 52 BCE
# geocentric

## FEBRUARY 52 BCE (-51) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 34 10 | 10♒18'33 | 24♋26 | 1°R45 | 21♉ 3 | 1♏39 | 7♉30 | 16°R50 | 18°R51 | 25°R 0 | 19°R14 | 11°R13 | 12♎41 | 28♒43 | n.a. | S 1 |
| M 2 | 8 38 6 | 11°18'38 | 9♌36 | 0♒51 | 22°18 | 2° 6 | 7°35 | 16♏46 | 18♌48 | 24♋58 | 19♊13 | 11♎ 3 | 12°38 | 28°50 | n.a. | M 2 |
| T 3 | 8 42 3 | 12°18'41 | 24°52 | 0° 3 | 23°32 | 2°33 | 7°41 | 16°43 | 18°45 | 24°57 | 19°12 | 10°55 | 12°35 | 28°57 | n.a. | T 3 |
| W 4 | 8 46 0 | 13°18'42 | 10♍ 3 | 29♉21 | 24°46 | 2°59 | 7°47 | 16°40 | 18°43 | 24°55 | 19°12 | 10°50 | 12°31 | 29° 3 | n.a. | W 4 |
| T 5 | 8 49 56 | 14°18'42 | 24°59 | 28°45 | 26° 1 | 3°26 | 7°53 | 16°36 | 18°40 | 24°54 | 19°11 | 10°46 | 12°28 | 29°10 | n.a. | T 5 |
| F 6 | 8 53 53 | 15°18'39 | 9♎34 | 28°15 | 27°15 | 3°52 | 7°59 | 16°33 | 18°38 | 24°52 | 19°10 | 10°D45 | 12°25 | 29°17 | n.a. | F 6 |
| S 7 | 8 57 49 | 16°18'35 | 23°44 | 27°53 | 28°30 | 4°18 | 8° 6 | 16°29 | 18°35 | 24°50 | 19°10 | 10°46 | 12°22 | 29°23 | n.a. | S 7 |
| S 8 | 9 1 46 | 17°18'29 | 7♏28 | 27°37 | 29°44 | 4°43 | 8°13 | 16°25 | 18°32 | 24°49 | 19° 9 | 10°47 | 12°19 | 29°30 | n.a. | S 8 |
| M 9 | 9 5 42 | 18°18'21 | 20°48 | 27°28 | 0♒58 | 5° 9 | 8°19 | 16°22 | 18°30 | 24°47 | 19° 8 | 10°R47 | 12°16 | 29°37 | n.a. | M 9 |
| T 10 | 9 9 39 | 19°18'12 | 3♐47 | 27°D25 | 2°13 | 5°34 | 8°26 | 16°18 | 18°27 | 24°46 | 19° 8 | 10°46 | 12°12 | 29°43 | n.a. | T 10 |
| W11 | 9 13 35 | 20°18'01 | 16°28 | 27°29 | 3°27 | 5°59 | 8°33 | 16°14 | 18°24 | 24°44 | 19° 7 | 10°43 | 12° 9 | 29°50 | n.a. | W11 |
| T 12 | 9 17 32 | 21°17'48 | 28°54 | 27°38 | 4°42 | 6°24 | 8°40 | 16°10 | 18°22 | 24°43 | 19° 7 | 10°37 | 12° 6 | 29°57 | n.a. | T 12 |
| F 13 | 9 21 29 | 22°17'33 | 11♑ 9 | 27°54 | 5°56 | 6°48 | 8°48 | 16° 6 | 18°19 | 24°41 | 19° 6 | 10°30 | 12° 3 | 0♓ 3 | n.a. | F 13 |
| S 14 | 9 25 25 | 23°17'16 | 23°15 | 28°14 | 7°10 | 7°12 | 8°55 | 16° 2 | 18°17 | 24°40 | 19° 6 | 10°21 | 12° 0 | 0°10 | n.a. | S 14 |
| S 15 | 9 29 22 | 24°16'58 | 5♒14 | 28°39 | 8°25 | 7°36 | 9° 3 | 15°58 | 18°14 | 24°39 | 19° 5 | 10°12 | 11°56 | 0°17 | n.a. | S 15 |
| M16 | 9 33 18 | 25°16'37 | 17° 8 | 29° 9 | 9°39 | 7°59 | 9°11 | 15°54 | 18°11 | 24°37 | 19° 5 | 10° 3 | 11°53 | 0°23 | n.a. | M16 |
| T 17 | 9 37 15 | 26°16'14 | 28°59 | 29°44 | 10°53 | 8°22 | 9°19 | 15°50 | 18° 9 | 24°36 | 19° 5 | 9°55 | 11°50 | 0°30 | n.a. | T 17 |
| W18 | 9 41 11 | 27°15'49 | 10♓47 | 0♒22 | 12° 8 | 8°45 | 9°27 | 15°45 | 18° 6 | 24°34 | 19° 4 | 9°49 | 11°47 | 0°37 | n.a. | W18 |
| T 19 | 9 45 8 | 28°15'22 | 22°36 | 1° 5 | 13°22 | 9° 8 | 9°35 | 15°41 | 18° 4 | 24°33 | 19° 4 | 9°46 | 11°44 | 0°43 | n.a. | T 19 |
| F 20 | 9 49 4 | 29°14'52 | 4♈28 | 1°51 | 14°36 | 9°30 | 9°43 | 15°37 | 18° 1 | 24°32 | 19° 4 | 9°D44 | 11°41 | 0°50 | n.a. | F 20 |
| S 21 | 9 53 1 | 0♓14'20 | 16°25 | 2°40 | 15°51 | 9°52 | 9°52 | 15°32 | 17°59 | 24°30 | 19° 3 | 9°44 | 11°37 | 0°57 | n.a. | S 21 |
| S 22 | 9 56 57 | 1°13'46 | 28°31 | 3°33 | 17° 5 | 10°13 | 10° 0 | 15°28 | 17°56 | 24°29 | 19° 3 | 9°45 | 11°34 | 1° 4 | n.a. | S 22 |
| M23 | 10 0 54 | 2°13'10 | 10♉50 | 4°29 | 18°19 | 10°34 | 10° 9 | 15°24 | 17°54 | 24°28 | 19° 3 | 9°47 | 11°31 | 1°10 | n.a. | M23 |
| T 24 | 10 4 51 | 3°12'31 | 23°26 | 5°28 | 19°33 | 10°55 | 10°18 | 15°19 | 17°51 | 24°27 | 19° 3 | 9°48 | 11°28 | 1°17 | n.a. | T 24 |
| W25 | 10 8 47 | 4°11'50 | 6♊24 | 6°29 | 20°48 | 11°15 | 10°27 | 15°15 | 17°49 | 24°25 | 19° 2 | 9°R49 | 11°25 | 1°24 | n.a. | W25 |
| T 26 | 10 12 44 | 5°11'06 | 19°47 | 7°33 | 22° 2 | 11°35 | 10°36 | 15°10 | 17°46 | 24°24 | 19° 2 | 9°48 | 11°21 | 1°30 | n.a. | T 26 |
| F 27 | 10 16 40 | 6°10'20 | 3♋37 | 8°39 | 23°16 | 11°55 | 10°45 | 15° 6 | 17°44 | 24°23 | 19° 2 | 9°45 | 11°18 | 1°37 | n.a. | F 27 |
| S 28 | 10 20 37 | 7♓ 9'32 | 17♋56 | 9♒48 | 24♒30 | 12♏14 | 10♉55 | 15♍ 1 | 17♌41 | 24♋22 | 19♊ 2 | 9♎42 | 11♎15 | 1♓44 | n.a. | S 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| S 1 | 17s51 | 16n36 | 4s56 | 16s26 | 3n38 | 22s42 | 0s41 | 10s33 | 1n44 | 13n28 | 0s44 | 7n38 | 2n35 | 16n 5 | 0n47 | 21n35 | 0n13 | 22n29 | 0s47 | 4s29 | 5s 4 | 8s42 | | | n.a. |
| M 2 | 17 34 | 13 44 | 4 28 | 16 46 | 3 31 | 22 32 | 0 43 | 10 43 | 1 44 | 13 30 | 0 44 | 7 39 | 2 35 | 16 6 | 0 47 | 21 35 | 0 13 | 22 29 | 0 47 | 4 25 | 5 2 | 8 40 | | | n.a. |
| T 3 | 17 17 | 9 55 | 3 40 | 17 5 | 3 21 | 22 22 | 0 45 | 10 52 | 1 43 | 13 32 | 0 44 | 7 41 | 2 35 | 16 7 | 0 47 | 21 35 | 0 13 | 22 29 | 0 47 | 4 22 | 5 1 | 8 38 | | | n.a. |
| W 4 | 17 0 | 5 28 | 2 37 | 17 24 | 3 11 | 22 11 | 0 47 | 11 2 | 1 43 | 13 34 | 0 43 | 7 42 | 2 36 | 16 8 | 0 47 | 21 36 | 0 13 | 22 29 | 0 46 | 4 20 | 5 0 | 8 36 | | | n.a. |
| T 5 | 16 43 | 0 44 | 1 24 | 17 42 | 3 0 | 21 59 | 0 49 | 11 11 | 1 43 | 13 37 | 0 43 | 7 44 | 2 36 | 16 8 | 0 47 | 21 36 | 0 13 | 22 29 | 0 46 | 4 18 | 4 59 | 8 35 | | | n.a. |
| F 6 | 16 25 | 3s56 | 0 6 | 18 0 | 2 48 | 21 46 | 0 51 | 11 20 | 1 43 | 13 39 | 0 43 | 7 45 | 2 36 | 16 9 | 0 47 | 21 36 | 0 13 | 22 29 | 0 46 | 4 18 | 4 57 | 8 33 | | | n.a. |
| S 7 | 16 7 | 8 14 | 1n 9 | 18 17 | 2 35 | 21 33 | 0 53 | 11 29 | 1 43 | 13 41 | 0 43 | 7 47 | 2 36 | 16 10 | 0 47 | 21 37 | 0 13 | 22 29 | 0 46 | 4 18 | 4 56 | 8 31 | | | n.a. |
| S 8 | 15 49 | 11 58 | 2 18 | 18 33 | 2 22 | 21 20 | 0 55 | 11 38 | 1 42 | 13 44 | 0 42 | 7 49 | 2 36 | 16 11 | 0 47 | 21 37 | 0 13 | 22 29 | 0 46 | 4 19 | 4 55 | 8 30 | | | n.a. |
| M 9 | 15 30 | 14 58 | 3 18 | 18 48 | 2 8 | 21 5 | 0 57 | 11 47 | 1 42 | 13 46 | 0 42 | 7 50 | 2 37 | 16 12 | 0 47 | 21 37 | 0 13 | 22 29 | 0 46 | 4 19 | 4 54 | 8 28 | | | n.a. |
| T 10 | 15 12 | 17 7 | 4 6 | 19 2 | 1 55 | 20 50 | 0 59 | 11 55 | 1 42 | 13 48 | 0 42 | 7 52 | 2 37 | 16 13 | 0 47 | 21 37 | 0 13 | 22 29 | 0 46 | 4 18 | 4 52 | 8 26 | | | n.a. |
| W11 | 14 53 | 18 21 | 4 40 | 19 14 | 1 41 | 20 35 | 1 1 | 12 4 | 1 41 | 13 51 | 0 42 | 7 54 | 2 37 | 16 13 | 0 47 | 21 38 | 0 13 | 22 29 | 0 46 | 4 17 | 4 51 | 8 24 | | | n.a. |
| T 12 | 14 33 | 18 41 | 5 1 | 19 26 | 1 27 | 20 18 | 1 2 | 12 12 | 1 41 | 13 53 | 0 42 | 7 55 | 2 37 | 16 14 | 0 47 | 21 38 | 0 13 | 22 29 | 0 46 | 4 15 | 4 50 | 8 23 | | | n.a. |
| F 13 | 14 14 | 18 7 | 5 7 | 19 36 | 1 14 | 20 2 | 1 4 | 12 21 | 1 41 | 13 56 | 0 41 | 7 57 | 2 37 | 16 15 | 0 47 | 21 38 | 0 13 | 22 29 | 0 46 | 4 12 | 4 49 | 8 21 | | | n.a. |
| S 14 | 13 54 | 16 45 | 5 0 | 19 45 | 1 1 | 19 44 | 1 6 | 12 29 | 1 40 | 13 59 | 0 41 | 7 59 | 2 37 | 16 16 | 0 47 | 21 38 | 0 13 | 22 29 | 0 46 | 4 8 | 4 47 | 8 19 | | | n.a. |
| S 15 | 13 34 | 14 39 | 4 39 | 19 53 | 0 48 | 19 26 | 1 7 | 12 37 | 1 40 | 14 1 | 0 41 | 8 1 | 2 38 | 16 17 | 0 47 | 21 39 | 0 13 | 22 29 | 0 46 | 4 5 | 4 46 | 8 17 | | | n.a. |
| M16 | 13 14 | 11 58 | 4 6 | 19 59 | 0 35 | 19 8 | 1 9 | 12 45 | 1 40 | 14 4 | 0 41 | 8 2 | 2 38 | 16 17 | 0 47 | 21 39 | 0 13 | 22 29 | 0 46 | 4 1 | 4 45 | 8 16 | | | n.a. |
| T 17 | 12 54 | 8 48 | 3 23 | 20 4 | 0 22 | 18 49 | 1 10 | 12 53 | 1 39 | 14 7 | 0 40 | 8 4 | 2 38 | 16 18 | 0 47 | 21 39 | 0 13 | 22 29 | 0 45 | 3 58 | 4 44 | 8 14 | | | n.a. |
| W18 | 12 33 | 5 17 | 2 31 | 20 7 | 0 10 | 18 29 | 1 12 | 13 1 | 1 39 | 14 10 | 0 40 | 8 6 | 2 38 | 16 19 | 0 47 | 21 40 | 0 13 | 22 29 | 0 45 | 3 56 | 4 42 | 8 12 | | | n.a. |
| T 19 | 12 12 | 1 34 | 1 32 | 20 9 | 0s 1 | 18 9 | 1 13 | 13 9 | 1 38 | 14 12 | 0 40 | 8 8 | 2 38 | 16 20 | 0 47 | 21 40 | 0 13 | 22 29 | 0 45 | 3 54 | 4 41 | 8 11 | | | n.a. |
| F 20 | 11 52 | 2n14 | 0 29 | 20 10 | 0 12 | 17 49 | 1 14 | 13 16 | 1 38 | 14 15 | 0 40 | 8 10 | 2 38 | 16 21 | 0 47 | 21 40 | 0 13 | 22 29 | 0 45 | 3 54 | 4 40 | 8 9 | | | n.a. |
| S 21 | 11 31 | 5 58 | 0s36 | 20 9 | 0 23 | 17 28 | 1 15 | 13 24 | 1 37 | 14 18 | 0 40 | 8 11 | 2 38 | 16 21 | 0 47 | 21 40 | 0 13 | 22 30 | 0 45 | 3 54 | 4 39 | 8 7 | | | n.a. |
| S 22 | 11 9 | 9 30 | 1 41 | 20 7 | 0 33 | 17 6 | 1 17 | 13 31 | 1 37 | 14 21 | 0 39 | 8 13 | 2 39 | 16 22 | 0 47 | 21 40 | 0 13 | 22 30 | 0 45 | 3 54 | 4 37 | 8 5 | | | n.a. |
| M23 | 10 48 | 12 41 | 2 41 | 20 3 | 0 43 | 16 44 | 1 18 | 13 38 | 1 36 | 14 24 | 0 39 | 8 15 | 2 39 | 16 23 | 0 47 | 21 41 | 0 13 | 22 30 | 0 45 | 3 55 | 4 36 | 8 4 | | | n.a. |
| T 24 | 10 26 | 15 21 | 3 36 | 19 58 | 0 53 | 16 21 | 1 19 | 13 45 | 1 36 | 14 27 | 0 39 | 8 17 | 2 39 | 16 24 | 0 47 | 21 41 | 0 13 | 22 30 | 0 45 | 3 56 | 4 35 | 8 2 | | | n.a. |
| W25 | 10 5 | 17 19 | 4 21 | 19 51 | 1 2 | 15 58 | 1 20 | 13 52 | 1 35 | 14 30 | 0 39 | 8 19 | 2 39 | 16 25 | 0 47 | 21 41 | 0 13 | 22 30 | 0 45 | 3 56 | 4 34 | 8 0 | | | n.a. |
| T 26 | 9 43 | 18 25 | 4 54 | 19 43 | 1 10 | 15 35 | 1 21 | 13 59 | 1 34 | 14 33 | 0 38 | 8 21 | 2 39 | 16 25 | 0 47 | 21 41 | 0 13 | 22 30 | 0 45 | 3 55 | 4 32 | 7 58 | | | n.a. |
| F 27 | 9 21 | 18 28 | 5 11 | 19 33 | 1 19 | 15 11 | 1 21 | 14 5 | 1 34 | 14 36 | 0 38 | 8 22 | 2 39 | 16 26 | 0 47 | 21 42 | 0 13 | 22 30 | 0 45 | 3 54 | 4 31 | 7 57 | | | n.a. |
| S 28 | 8s59 | 17n22 | 5s 9 | 19s22 | 1s26 | 14s47 | 1s22 | 14s12 | 1n33 | 14n39 | 0s38 | 8n24 | 2n39 | 16n27 | 0n47 | 21n42 | 0n13 | 22n30 | 0s45 | 3s53 | 4s30 | 7s55 | | | n.a. |

Julian Day Number = 1702461.5, Delta T = 03h04m52s
Ecliptic obliquity = 23°41'55, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°46'49, Lahiri = - 4°39'48 Julian Calendar 1 Feb. 52 BCE == Greg. Calendar 30 Jan. 052 BCE


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# ASTRODIENST EPHEMERIS for the year 52 BCE
# geocentric

## MARCH 52 BCE (-51) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 24 33 | 8♓ 8'41 | 2♌40 | 10♒59 | 25♒45 | 12♏33 | 11♉ 4 | 14°R56 | 17°R39 | 24°R21 | 19°R 2 | 9°R37 | 11♎12 | 1♓50 | n.a. | S 1 |
| M 2 | 10 28 30 | 9° 7'48 | 17°43 | 12°12 | 26°59 | 12°52 | 11°14 | 14♍52 | 17♌36 | 24♋20 | 19♊ 2 | 9♎33 | 11° 9 | 1°57 | n.a. | M 2 |
| T 3 | 10 32 26 | 10° 6'52 | 2♍57 | 13°27 | 28°13 | 13°10 | 11°23 | 14°47 | 17°34 | 24°19 | 19° 2 | 9°29 | 11° 6 | 2° 4 | n.a. | T 3 |
| W 4 | 10 36 23 | 11° 5'55 | 18°12 | 14°44 | 29°27 | 13°27 | 11°33 | 14°43 | 17°32 | 24°18 | 19° 2 | 9°26 | 11° 2 | 2°10 | n.a. | W 4 |
| T 5 | 10 40 20 | 12° 4'55 | 3♎17 | 16° 3 | 0♓41 | 13°44 | 11°43 | 14°38 | 17°29 | 24°16 | 19°D 2 | 9°D25 | 10°59 | 2°17 | n.a. | T 5 |
| F 6 | 10 44 16 | 13° 3'53 | 18° 5 | 17°24 | 1°55 | 14° 1 | 11°53 | 14°33 | 17°27 | 24°15 | 19° 2 | 9°25 | 10°56 | 2°24 | n.a. | F 6 |
| S 7 | 10 48 13 | 14° 2'49 | 2♏28 | 18°47 | 3°10 | 14°17 | 12° 3 | 14°29 | 17°25 | 24°15 | 19° 2 | 9°26 | 10°53 | 2°30 | n.a. | S 7 |
| S 8 | 10 52 9 | 15° 1'44 | 16°25 | 20°11 | 4°24 | 14°33 | 12°13 | 14°24 | 17°23 | 24°14 | 19° 2 | 9°28 | 10°50 | 2°37 | n.a. | S 8 |
| M 9 | 10 56 6 | 16° 0'36 | 29°55 | 21°37 | 5°38 | 14°48 | 12°23 | 14°20 | 17°21 | 24°13 | 19° 2 | 9°29 | 10°47 | 2°44 | n.a. | M 9 |
| T 10 | 11 0 2 | 16°59'27 | 12♐59 | 23° 5 | 6°52 | 15° 3 | 12°34 | 14°15 | 17°18 | 24°12 | 19° 2 | 9°R30 | 10°43 | 2°50 | n.a. | T 10 |
| W11 | 11 3 59 | 17°58'16 | 25°42 | 24°34 | 8° 6 | 15°18 | 12°44 | 14°10 | 17°16 | 24°11 | 19° 2 | 9°30 | 10°40 | 2°57 | n.a. | W11 |
| T 12 | 11 7 55 | 18°57'03 | 8♑ 6 | 26° 6 | 9°20 | 15°31 | 12°55 | 14° 6 | 17°14 | 24°10 | 19° 2 | 9°28 | 10°37 | 3° 4 | n.a. | T 12 |
| F 13 | 11 11 52 | 19°55'49 | 20°17 | 27°38 | 10°34 | 15°45 | 13° 6 | 14° 1 | 17°12 | 24° 9 | 19° 2 | 9°26 | 10°34 | 3°10 | n.a. | F 13 |
| S 14 | 11 15 48 | 20°54'32 | 2♒16 | 29°13 | 11°48 | 15°57 | 13°16 | 13°57 | 17°10 | 24° 9 | 19° 3 | 9°24 | 10°31 | 3°17 | n.a. | S 14 |
| S 15 | 11 19 45 | 21°53'14 | 14°10 | 0♓49 | 13° 3 | 16° 9 | 13°27 | 13°52 | 17° 8 | 24° 8 | 19° 3 | 9°21 | 10°27 | 3°24 | n.a. | S 15 |
| M16 | 11 23 42 | 22°51'54 | 25°59 | 2°26 | 14°17 | 16°21 | 13°38 | 13°48 | 17° 6 | 24° 7 | 19° 3 | 9°18 | 10°24 | 3°30 | n.a. | M16 |
| T 17 | 11 27 38 | 23°50'31 | 7♓47 | 4° 5 | 15°31 | 16°32 | 13°49 | 13°43 | 17° 4 | 24° 6 | 19° 3 | 9°16 | 10°21 | 3°37 | n.a. | T 17 |
| W18 | 11 31 35 | 24°49'07 | 19°37 | 5°46 | 16°45 | 16°42 | 14° 0 | 13°38 | 17° 2 | 24° 6 | 19° 4 | 9°14 | 10°18 | 3°44 | n.a. | W18 |
| T 19 | 11 35 31 | 25°47'41 | 1♈31 | 7°29 | 17°59 | 16°52 | 14°12 | 13°34 | 17° 0 | 24° 5 | 19° 4 | 9°14 | 10°15 | 3°50 | n.a. | T 19 |
| F 20 | 11 39 28 | 26°46'13 | 13°30 | 9°13 | 19°13 | 17° 1 | 14°23 | 13°30 | 16°58 | 24° 4 | 19° 4 | 9°D13 | 10°12 | 3°57 | n.a. | F 20 |
| S 21 | 11 43 24 | 27°44'42 | 25°36 | 10°58 | 20°27 | 17°10 | 14°34 | 13°25 | 16°57 | 24° 4 | 19° 5 | 9°14 | 10° 8 | 4° 4 | n.a. | S 21 |
| S 22 | 11 47 21 | 28°43'10 | 7♉53 | 12°45 | 21°41 | 17°18 | 14°46 | 13°21 | 16°55 | 24° 3 | 19° 5 | 9°15 | 10° 5 | 4°10 | n.a. | S 22 |
| M23 | 11 51 17 | 29°41'36 | 20°22 | 14°34 | 22°55 | 17°25 | 14°57 | 13°16 | 16°53 | 24° 3 | 19° 5 | 9°16 | 10° 2 | 4°17 | n.a. | M23 |
| T 24 | 11 55 14 | 0♈39'59 | 3♊ 5 | 16°25 | 24° 9 | 17°32 | 15° 9 | 13°12 | 16°52 | 24° 2 | 19° 6 | 9°17 | 9°59 | 4°24 | n.a. | T 24 |
| W25 | 11 59 11 | 1°38'20 | 16° 7 | 18°17 | 25°23 | 17°38 | 15°21 | 13° 8 | 16°50 | 24° 2 | 19° 6 | 9°17 | 9°56 | 4°30 | n.a. | W25 |
| T 26 | 12 3 7 | 2°36'39 | 29°28 | 20°11 | 26°37 | 17°43 | 15°32 | 13° 4 | 16°48 | 24° 2 | 19° 7 | 9°R17 | 9°53 | 4°37 | n.a. | T 26 |
| F 27 | 12 7 4 | 3°34'56 | 13♋12 | 22° 6 | 27°51 | 17°48 | 15°44 | 12°59 | 16°47 | 24° 1 | 19° 7 | 9°17 | 9°49 | 4°44 | n.a. | F 27 |
| S 28 | 12 11 0 | 4°33'11 | 27°17 | 24° 3 | 29° 5 | 17°52 | 15°56 | 12°55 | 16°45 | 24° 1 | 19° 8 | 9°17 | 9°46 | 4°50 | n.a. | S 28 |
| S 29 | 12 14 57 | 5°31'23 | 11♌44 | 26° 2 | 0♈19 | 17°55 | 16° 8 | 12°51 | 16°44 | 24° 1 | 19° 8 | 9°17 | 9°43 | 4°57 | n.a. | S 29 |
| M30 | 12 18 53 | 6°29'34 | 26°28 | 28° 2 | 1°33 | 17°58 | 16°20 | 12°47 | 16°42 | 24° 0 | 19° 9 | 9°16 | 9°40 | 5° 4 | n.a. | M30 |
| T 31 | 12 22 50 | 7♈27'42 | 11♍25 | 0♈ 4 | 2♈47 | 18♏ 0 | 16♉32 | 12♍43 | 16♌41 | 24♋ 0 | 19♊10 | 9♎16 | 9♎37 | 5♓10 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| S 1 | 8s36 | 15n 6 | 4s48 | 19s10 | 1s33 | 14s23 | 1s23 | 14s18 | 1n32 | 14n43 | 0s38 | 8n26 | 2n39 | 16n28 | 0n47 | 21n42 | 0n13 | 22n30 | 0s44 | 3s51 | 4s29 | 7s53 | | | n.a. |
| M 2 | 8 14 | 11 47 | 4 6 | 18 55 | 1 40 | 13 58 | 1 24 | 14 25 | 1 32 | 14 46 | 0 38 | 8 28 | 2 39 | 16 28 | 0 47 | 21 42 | 0 13 | 22 30 | 0 44 | 3 49 | 4 27 | 7 51 | | | n.a. |
| T 3 | 7 51 | 7 38 | 3 7 | 18 40 | 1 46 | 13 32 | 1 24 | 14 31 | 1 31 | 14 49 | 0 37 | 8 30 | 2 39 | 16 29 | 0 47 | 21 42 | 0 13 | 22 30 | 0 44 | 3 48 | 4 26 | 7 50 | | | n.a. |
| W 4 | 7 29 | 2 58 | 1 54 | 18 22 | 1 52 | 13 7 | 1 25 | 14 37 | 1 30 | 14 52 | 0 37 | 8 32 | 2 39 | 16 30 | 0 47 | 21 43 | 0 13 | 22 30 | 0 44 | 3 47 | 4 25 | 7 48 | | | n.a. |
| T 5 | 7 6 | 1s50 | 0 34 | 18 4 | 1 57 | 12 40 | 1 25 | 14 43 | 1 29 | 14 56 | 0 37 | 8 34 | 2 40 | 16 30 | 0 47 | 21 43 | 0 13 | 22 30 | 0 44 | 3 46 | 4 24 | 7 46 | | | n.a. |
| F 6 | 6 43 | 6 26 | 0n48 | 17 43 | 2 2 | 12 14 | 1 26 | 14 49 | 1 28 | 14 59 | 0 37 | 8 35 | 2 40 | 16 31 | 0 47 | 21 43 | 0 13 | 22 30 | 0 44 | 3 46 | 4 22 | 7 44 | | | n.a. |
| S 7 | 6 21 | 10 32 | 2 4 | 17 22 | 2 7 | 11 47 | 1 26 | 14 54 | 1 28 | 15 2 | 0 37 | 8 37 | 2 40 | 16 32 | 0 47 | 21 43 | 0 13 | 22 31 | 0 44 | 3 47 | 4 21 | 7 43 | | | n.a. |
| S 8 | 5 58 | 13 54 | 3 10 | 16 58 | 2 10 | 11 20 | 1 26 | 15 0 | 1 27 | 15 5 | 0 37 | 8 39 | 2 40 | 16 32 | 0 47 | 21 43 | 0 13 | 22 31 | 0 44 | 3 47 | 4 20 | 7 41 | | | n.a. |
| M 9 | 5 35 | 16 23 | 4 3 | 16 34 | 2 14 | 10 53 | 1 26 | 15 5 | 1 26 | 15 9 | 0 36 | 8 41 | 2 40 | 16 33 | 0 47 | 21 44 | 0 13 | 22 31 | 0 44 | 3 48 | 4 19 | 7 39 | | | n.a. |
| T 10 | 5 11 | 17 56 | 4 42 | 16 7 | 2 17 | 10 25 | 1 27 | 15 11 | 1 25 | 15 12 | 0 36 | 8 43 | 2 40 | 16 34 | 0 47 | 21 44 | 0 13 | 22 31 | 0 44 | 3 48 | 4 17 | 7 37 | | | n.a. |
| W11 | 4 48 | 18 32 | 5 6 | 15 39 | 2 19 | 9 58 | 1 27 | 15 16 | 1 24 | 15 16 | 0 36 | 8 45 | 2 40 | 16 34 | 0 47 | 21 44 | 0 13 | 22 31 | 0 44 | 3 48 | 4 16 | 7 36 | | | n.a. |
| T 12 | 4 25 | 18 12 | 5 15 | 15 10 | 2 21 | 9 29 | 1 27 | 15 21 | 1 23 | 15 19 | 0 36 | 8 46 | 2 40 | 16 35 | 0 47 | 21 44 | 0 13 | 22 31 | 0 44 | 3 48 | 4 15 | 7 34 | | | n.a. |
| F 13 | 4 2 | 17 3 | 5 10 | 14 39 | 2 22 | 9 1 | 1 27 | 15 26 | 1 22 | 15 22 | 0 36 | 8 48 | 2 40 | 16 36 | 0 47 | 21 44 | 0 13 | 22 31 | 0 44 | 3 47 | 4 14 | 7 32 | | | n.a. |
| S 14 | 3 38 | 15 9 | 4 51 | 14 6 | 2 23 | 8 32 | 1 27 | 15 31 | 1 20 | 15 26 | 0 35 | 8 50 | 2 40 | 16 36 | 0 47 | 21 44 | 0 13 | 22 31 | 0 43 | 3 46 | 4 12 | 7 30 | | | n.a. |
| S 15 | 3 15 | 12 37 | 4 19 | 13 32 | 2 24 | 8 4 | 1 26 | 15 35 | 1 19 | 15 29 | 0 35 | 8 52 | 2 40 | 16 37 | 0 47 | 21 44 | 0 14 | 22 31 | 0 43 | 3 45 | 4 11 | 7 29 | | | n.a. |
| M16 | 2 52 | 9 36 | 3 37 | 12 57 | 2 24 | 7 34 | 1 26 | 15 40 | 1 18 | 15 33 | 0 35 | 8 54 | 2 40 | 16 37 | 0 47 | 21 45 | 0 14 | 22 31 | 0 43 | 3 44 | 4 10 | 7 27 | | | n.a. |
| T 17 | 2 28 | 6 11 | 2 45 | 12 20 | 2 23 | 7 5 | 1 26 | 15 44 | 1 17 | 15 36 | 0 35 | 8 55 | 2 40 | 16 38 | 0 47 | 21 45 | 0 14 | 22 31 | 0 43 | 3 43 | 4 9 | 7 25 | | | n.a. |
| W18 | 2 5 | 2 31 | 1 46 | 11 41 | 2 22 | 6 36 | 1 25 | 15 48 | 1 15 | 15 40 | 0 35 | 8 57 | 2 40 | 16 39 | 0 47 | 21 45 | 0 14 | 22 32 | 0 43 | 3 42 | 4 7 | 7 23 | | | n.a. |
| T 19 | 1 41 | 1n15 | 0 43 | 11 1 | 2 20 | 6 6 | 1 25 | 15 52 | 1 14 | 15 43 | 0 35 | 8 59 | 2 40 | 16 39 | 0 47 | 21 45 | 0 14 | 22 32 | 0 43 | 3 42 | 4 6 | 7 22 | | | n.a. |
| F 20 | 1 18 | 5 1 | 0s24 | 10 20 | 2 18 | 5 36 | 1 25 | 15 56 | 1 13 | 15 47 | 0 34 | 9 1 | 2 40 | 16 40 | 0 47 | 21 45 | 0 14 | 22 32 | 0 43 | 3 42 | 4 5 | 7 20 | | | n.a. |
| S 21 | 0 54 | 8 37 | 1 30 | 9 37 | 2 15 | 5 7 | 1 24 | 16 0 | 1 11 | 15 50 | 0 34 | 9 2 | 2 40 | 16 40 | 0 47 | 21 45 | 0 14 | 22 32 | 0 43 | 3 42 | 4 3 | 7 18 | | | n.a. |
| S 22 | 0 31 | 11 53 | 2 32 | 8 52 | 2 12 | 4 36 | 1 23 | 16 4 | 1 10 | 15 54 | 0 34 | 9 4 | 2 40 | 16 41 | 0 47 | 21 45 | 0 14 | 22 32 | 0 43 | 3 42 | 4 2 | 7 16 | | | n.a. |
| M23 | 0 7 | 14 40 | 3 29 | 8 6 | 2 8 | 4 6 | 1 23 | 16 7 | 1 8 | 15 58 | 0 34 | 9 6 | 2 40 | 16 41 | 0 47 | 21 45 | 0 14 | 22 32 | 0 43 | 3 43 | 4 1 | 7 14 | | | n.a. |
| T 24 | 0n16 | 16 48 | 4 17 | 7 19 | 2 4 | 3 36 | 1 22 | 16 11 | 1 7 | 16 1 | 0 34 | 9 7 | 2 40 | 16 42 | 0 47 | 21 45 | 0 14 | 22 32 | 0 43 | 3 43 | 4 0 | 7 13 | | | n.a. |
| W25 | 0 40 | 18 7 | 4 52 | 6 30 | 1 59 | 3 6 | 1 21 | 16 14 | 1 5 | 16 5 | 0 34 | 9 9 | 2 39 | 16 42 | 0 47 | 21 46 | 0 14 | 22 32 | 0 43 | 3 43 | 3 58 | 7 11 | | | n.a. |
| T 26 | 1 3 | 18 29 | 5 13 | 5 40 | 1 54 | 2 35 | 1 20 | 16 17 | 1 3 | 16 8 | 0 33 | 9 10 | 2 39 | 16 43 | 0 47 | 21 46 | 0 14 | 22 32 | 0 42 | 3 43 | 3 57 | 7 9 | | | n.a. |
| F 27 | 1 26 | 17 47 | 5 17 | 4 49 | 1 48 | 2 5 | 1 19 | 16 20 | 1 2 | 16 12 | 0 33 | 9 12 | 2 39 | 16 43 | 0 47 | 21 46 | 0 14 | 22 33 | 0 42 | 3 43 | 3 56 | 7 7 | | | n.a. |
| S 28 | 1 50 | 15 59 | 5 2 | 3 56 | 1 41 | 1 34 | 1 18 | 16 23 | 1 0 | 16 16 | 0 33 | 9 14 | 2 39 | 16 43 | 0 47 | 21 46 | 0 14 | 22 33 | 0 42 | 3 43 | 3 55 | 7 6 | | | n.a. |
| S 29 | 2 13 | 13 10 | 4 28 | 3 2 | 1 34 | 1 3 | 1 17 | 16 26 | 0 58 | 16 19 | 0 33 | 9 15 | 2 39 | 16 44 | 0 47 | 21 46 | 0 14 | 22 33 | 0 42 | 3 43 | 3 53 | 7 4 | | | n.a. |
| M30 | 2 36 | 9 26 | 3 36 | 2 7 | 1 27 | 0 33 | 1 16 | 16 28 | 0 56 | 16 23 | 0 33 | 9 17 | 2 39 | 16 44 | 0 47 | 21 46 | 0 14 | 22 33 | 0 42 | 3 43 | 3 52 | 7 2 | | | n.a. |
| T 31 | 3n 0 | 5n 4 | 2s29 | 1s11 | 1s19 | 0s 2 | 1s15 | 16s31 | 0n54 | 16n27 | 0s33 | 9n18 | 2n39 | 16n45 | 0n47 | 21n46 | 0n14 | 22n33 | 0s42 | 3s43 | 3s51 | 7s 0 | | | n.a. |

Julian Day Number = 1702489.5, Delta T = 03h04m51s
Ecliptic obliquity = 23°41'56, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°46'45, Lahiri = - 4°39'44 Julian Calendar 1 March 52 BCE == Greg. Calendar 27 Feb. 052 BCE

The year -51 astronomical counting style corresponds to year 052 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 52 BCE
# geocentric

## APRIL 52 BCE (-51) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 12 26 46 | 8♈25'48 | 26♍26 | 2♈ 7 | 4♈ 0 | 18♏ 1 | 16♉45 | 12°R39 | 16°R40 | 24°R 0 | 19♊10 | 9°R16 | 9♎33 | 5♓17 | n.a. | W 1 |
| T 2 | 12 30 43 | 9°23'53 | 11♎24 | 4°11 | 5°14 | 18°R 1 | 16°57 | 12♍35 | 16♏38 | 24♋ 0 | 19°11 | 9♎16 | 9°30 | 5°24 | n.a. | T 2 |
| F 3 | 12 34 39 | 10°21'55 | 26° 9 | 6°17 | 6°28 | 18° 1 | 17° 9 | 12°31 | 16°37 | 23°59 | 19°12 | 9°16 | 9°27 | 5°30 | n.a. | F 3 |
| S 4 | 12 38 36 | 11°19'56 | 10♏36 | 8°24 | 7°42 | 18° 0 | 17°21 | 12°28 | 16°36 | 23°59 | 19°12 | 9°16 | 9°24 | 5°37 | n.a. | S 4 |
| S 5 | 12 42 33 | 12°17'56 | 24°39 | 10°32 | 8°56 | 17°58 | 17°34 | 12°24 | 16°35 | 23°59 | 19°13 | 9°16 | 9°21 | 5°44 | n.a. | S 5 |
| M 6 | 12 46 29 | 13°15'54 | 8♐17 | 12°41 | 10°10 | 17°56 | 17°46 | 12°20 | 16°34 | 23°59 | 19°14 | 9°15 | 9°18 | 5°50 | n.a. | M 6 |
| T 7 | 12 50 26 | 14°13'51 | 21°29 | 14°51 | 11°24 | 17°52 | 17°59 | 12°17 | 16°33 | 23°D59 | 19°14 | 9°15 | 9°14 | 5°57 | n.a. | T 7 |
| W 8 | 12 54 22 | 15°11'46 | 4♑17 | 17° 1 | 12°38 | 17°48 | 18°11 | 12°13 | 16°32 | 23°59 | 19°15 | 9°14 | 9°11 | 6° 4 | n.a. | W 8 |
| T 9 | 12 58 19 | 16° 9'40 | 16°44 | 19°11 | 13°51 | 17°44 | 18°24 | 12°10 | 16°31 | 23°59 | 19°16 | 9°D14 | 9° 8 | 6°10 | n.a. | T 9 |
| F 10 | 13 2 15 | 17° 7'32 | 28°55 | 21°21 | 15° 5 | 17°38 | 18°37 | 12° 6 | 16°30 | 23°59 | 19°17 | 9°15 | 9° 5 | 6°17 | n.a. | F 10 |
| S 11 | 13 6 12 | 18° 5'23 | 10♒54 | 23°30 | 16°19 | 17°32 | 18°49 | 12° 3 | 16°29 | 23°59 | 19°18 | 9°15 | 9° 2 | 6°24 | n.a. | S 11 |
| S 12 | 13 10 8 | 19° 3'13 | 22°45 | 25°39 | 17°33 | 17°25 | 19° 2 | 12° 0 | 16°28 | 24° 0 | 19°19 | 9°16 | 8°58 | 6°30 | n.a. | S 12 |
| M13 | 13 14 5 | 20° 1'02 | 4♓34 | 27°47 | 18°47 | 17°17 | 19°15 | 11°57 | 16°28 | 24° 0 | 19°19 | 9°17 | 8°55 | 6°37 | n.a. | M13 |
| T 14 | 13 18 2 | 20°58'49 | 16°23 | 29°54 | 20° 1 | 17° 8 | 19°28 | 11°54 | 16°27 | 24° 0 | 19°20 | 9°18 | 8°52 | 6°44 | n.a. | T 14 |
| W15 | 13 21 58 | 21°56'34 | 28°16 | 2♉ 0 | 21°14 | 16°59 | 19°41 | 11°51 | 16°26 | 24° 0 | 19°21 | 9°19 | 8°49 | 6°50 | n.a. | W15 |
| T 16 | 13 25 55 | 22°54'19 | 10♈17 | 4° 3 | 22°28 | 16°49 | 19°54 | 11°48 | 16°26 | 24° 0 | 19°22 | 9°R19 | 8°46 | 6°57 | n.a. | T 16 |
| F 17 | 13 29 51 | 23°52'01 | 22°26 | 6° 5 | 23°42 | 16°38 | 20° 7 | 11°45 | 16°25 | 24° 1 | 19°23 | 9°19 | 8°43 | 7° 4 | n.a. | F 17 |
| S 18 | 13 33 48 | 24°49'43 | 4♉47 | 8° 4 | 24°56 | 16°26 | 20°20 | 11°42 | 16°25 | 24° 1 | 19°24 | 9°17 | 8°39 | 7°10 | n.a. | S 18 |
| S 19 | 13 37 44 | 25°47'23 | 17°20 | 10° 1 | 26°10 | 16°14 | 20°33 | 11°39 | 16°24 | 24° 2 | 19°25 | 9°16 | 8°36 | 7°17 | n.a. | S 19 |
| M20 | 13 41 41 | 26°45'02 | 0♊ 7 | 11°55 | 27°23 | 16° 1 | 20°46 | 11°37 | 16°24 | 24° 2 | 19°26 | 9°13 | 8°33 | 7°24 | n.a. | M20 |
| T 21 | 13 45 37 | 27°42'39 | 13° 7 | 13°47 | 28°37 | 15°48 | 20°59 | 11°34 | 16°24 | 24° 2 | 19°27 | 9°11 | 8°30 | 7°30 | n.a. | T 21 |
| W22 | 13 49 34 | 28°40'15 | 26°22 | 15°36 | 29°51 | 15°33 | 21°12 | 11°32 | 16°23 | 24° 3 | 19°28 | 9° 8 | 8°27 | 7°37 | n.a. | W22 |
| T 23 | 13 53 31 | 29°37'49 | 9♋52 | 17°22 | 1♉ 5 | 15°19 | 21°26 | 11°30 | 16°23 | 24° 3 | 19°29 | 9° 6 | 8°24 | 7°44 | n.a. | T 23 |
| F 24 | 13 57 27 | 0♉35'21 | 23°36 | 19° 6 | 2°18 | 15° 3 | 21°39 | 11°27 | 16°23 | 24° 4 | 19°30 | 9° 5 | 8°20 | 7°50 | n.a. | F 24 |
| S 25 | 14 1 24 | 1°32'52 | 7♌35 | 20°46 | 3°32 | 14°47 | 21°52 | 11°25 | 16°23 | 24° 4 | 19°32 | 9°D 5 | 8°17 | 7°57 | n.a. | S 25 |
| S 26 | 14 5 20 | 2°30'22 | 21°48 | 22°23 | 4°46 | 14°31 | 22° 6 | 11°23 | 16°23 | 24° 5 | 19°33 | 9° 6 | 8°14 | 8° 4 | n.a. | S 26 |
| M27 | 14 9 17 | 3°27'50 | 6♍12 | 23°57 | 6° 0 | 14°14 | 22°19 | 11°21 | 16°D23 | 24° 6 | 19°34 | 9° 7 | 8°11 | 8°10 | n.a. | M27 |
| T 28 | 14 13 13 | 4°25'16 | 20°45 | 25°28 | 7°13 | 13°57 | 22°32 | 11°19 | 16°23 | 24° 6 | 19°35 | 9° 9 | 8° 8 | 8°17 | n.a. | T 28 |
| W29 | 14 17 10 | 5°22'41 | 5♎23 | 26°55 | 8°27 | 13°39 | 22°46 | 11°18 | 16°23 | 24° 7 | 19°36 | 9°R 9 | 8° 4 | 8°24 | n.a. | W29 |
| T 30 | 14 21 6 | 6♉20'05 | 19♎59 | 28♉20 | 9♉41 | 13♏21 | 22♉59 | 11♍16 | 16♏23 | 24♋ 8 | 19♊37 | 9♎ 9 | 8♎ 1 | 8♓30 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 3n23 | 0n21 | 1s11 | 0s14 | 1s11 | 0n29 | 1s14 | 16s33 | 0n52 | 16n30 | 0s32 | 9n19 | 2n39 | 16n45 | 0n47 | 21n46 | 0n14 | 22n33 | 0s42 | 3s43 | 3s50 | 6s59 | | n.a. |
| T 2 | 3 46 | 4s22 | 0n12 | 0n44 | 1 2 | 1 0 | 1 13 | 16 35 | 0 50 | 16 34 | 0 32 | 9 21 | 2 39 | 16 45 | 0 46 | 21 46 | 0 14 | 22 33 | 0 42 | 3 43 | 3 48 | 6 57 | | n.a. |
| F 3 | 4 9 | 8 46 | 1 33 | 1 43 | 0 53 | 1 30 | 1 11 | 16 37 | 0 48 | 16 38 | 0 32 | 9 22 | 2 39 | 16 46 | 0 46 | 21 46 | 0 14 | 22 33 | 0 42 | 3 43 | 3 47 | 6 55 | | n.a. |
| S 4 | 4 32 | 12 33 | 2 46 | 2 43 | 0 43 | 2 1 | 1 10 | 16 39 | 0 46 | 16 41 | 0 32 | 9 24 | 2 39 | 16 46 | 0 46 | 21 46 | 0 14 | 22 34 | 0 42 | 3 43 | 3 46 | 6 53 | | n.a. |
| S 5 | 4 55 | 15 29 | 3 47 | 3 43 | 0 33 | 2 32 | 1 9 | 16 40 | 0 44 | 16 45 | 0 32 | 9 25 | 2 39 | 16 46 | 0 46 | 21 46 | 0 14 | 22 34 | 0 42 | 3 43 | 3 45 | 6 51 | | n.a. |
| M 6 | 5 18 | 17 26 | 4 33 | 4 43 | 0 23 | 3 2 | 1 7 | 16 42 | 0 41 | 16 49 | 0 32 | 9 26 | 2 38 | 16 47 | 0 46 | 21 46 | 0 14 | 22 34 | 0 42 | 3 42 | 3 43 | 6 50 | | n.a. |
| T 7 | 5 40 | 18 23 | 5 3 | 5 43 | 0 13 | 3 33 | 1 6 | 16 43 | 0 39 | 16 52 | 0 31 | 9 28 | 2 38 | 16 47 | 0 46 | 21 46 | 0 14 | 22 34 | 0 42 | 3 42 | 3 42 | 6 48 | | n.a. |
| W 8 | 6 3 | 18 21 | 5 16 | 6 43 | 0 2 | 4 3 | 1 4 | 16 44 | 0 37 | 16 56 | 0 31 | 9 29 | 2 38 | 16 47 | 0 46 | 21 46 | 0 14 | 22 34 | 0 41 | 3 42 | 3 41 | 6 46 | | n.a. |
| T 9 | 6 25 | 17 26 | 5 15 | 7 43 | 0n 9 | 4 34 | 1 3 | 16 45 | 0 34 | 17 0 | 0 31 | 9 30 | 2 38 | 16 47 | 0 46 | 21 46 | 0 14 | 22 34 | 0 41 | 3 42 | 3 39 | 6 44 | | n.a. |
| F 10 | 6 48 | 15 43 | 4 59 | 8 43 | 0 19 | 5 4 | 1 1 | 16 46 | 0 32 | 17 3 | 0 31 | 9 31 | 2 38 | 16 48 | 0 46 | 21 46 | 0 14 | 22 34 | 0 41 | 3 42 | 3 38 | 6 43 | | n.a. |
| S 11 | 7 10 | 13 21 | 4 31 | 9 41 | 0 30 | 5 34 | 0 59 | 16 47 | 0 29 | 17 7 | 0 31 | 9 32 | 2 38 | 16 48 | 0 46 | 21 46 | 0 14 | 22 35 | 0 41 | 3 42 | 3 37 | 6 41 | | n.a. |
| S 12 | 7 32 | 10 27 | 3 51 | 10 39 | 0 40 | 6 5 | 0 58 | 16 47 | 0 27 | 17 11 | 0 31 | 9 34 | 2 38 | 16 48 | 0 46 | 21 46 | 0 14 | 22 35 | 0 41 | 3 43 | 3 36 | 6 39 | | n.a. |
| M13 | 7 54 | 7 8 | 3 1 | 11 35 | 0 51 | 6 35 | 0 56 | 16 48 | 0 24 | 17 14 | 0 31 | 9 35 | 2 38 | 16 48 | 0 46 | 21 46 | 0 14 | 22 35 | 0 41 | 3 43 | 3 34 | 6 37 | | n.a. |
| T 14 | 8 16 | 3 32 | 2 4 | 12 30 | 1 1 | 7 4 | 0 54 | 16 48 | 0 21 | 17 18 | 0 31 | 9 36 | 2 37 | 16 49 | 0 46 | 21 46 | 0 14 | 22 35 | 0 41 | 3 43 | 3 33 | 6 36 | | n.a. |
| W15 | 8 38 | 0n14 | 1 1 | 13 24 | 1 10 | 7 34 | 0 52 | 16 48 | 0 18 | 17 22 | 0 30 | 9 37 | 2 37 | 16 49 | 0 46 | 21 46 | 0 14 | 22 35 | 0 41 | 3 44 | 3 32 | 6 34 | | n.a. |
| T 16 | 9 0 | 4 2 | 0s 5 | 14 15 | 1 20 | 8 4 | 0 50 | 16 48 | 0 15 | 17 25 | 0 30 | 9 38 | 2 37 | 16 49 | 0 46 | 21 46 | 0 14 | 22 35 | 0 41 | 3 44 | 3 31 | 6 32 | | n.a. |
| F 17 | 9 22 | 7 43 | 1 12 | 15 5 | 1 29 | 8 33 | 0 48 | 16 47 | 0 12 | 17 29 | 0 30 | 9 39 | 2 37 | 16 49 | 0 46 | 21 46 | 0 14 | 22 35 | 0 41 | 3 44 | 3 29 | 6 30 | | n.a. |
| S 18 | 9 43 | 11 7 | 2 16 | 15 52 | 1 37 | 9 2 | 0 46 | 16 47 | 0 9 | 17 32 | 0 30 | 9 40 | 2 37 | 16 49 | 0 46 | 21 46 | 0 14 | 22 36 | 0 41 | 3 43 | 3 28 | 6 28 | | n.a. |
| S 19 | 10 4 | 14 4 | 3 15 | 16 38 | 1 45 | 9 31 | 0 44 | 16 46 | 0 6 | 17 36 | 0 30 | 9 40 | 2 37 | 16 49 | 0 46 | 21 46 | 0 14 | 22 36 | 0 41 | 3 42 | 3 27 | 6 27 | | n.a. |
| M20 | 10 25 | 16 24 | 4 5 | 17 21 | 1 52 | 10 0 | 0 42 | 16 45 | 0 3 | 17 40 | 0 30 | 9 41 | 2 36 | 16 49 | 0 46 | 21 46 | 0 14 | 22 36 | 0 41 | 3 42 | 3 26 | 6 25 | | n.a. |
| T 21 | 10 46 | 17 56 | 4 44 | 18 1 | 1 58 | 10 28 | 0 40 | 16 44 | 0 0 | 17 43 | 0 30 | 9 42 | 2 36 | 16 49 | 0 46 | 21 46 | 0 14 | 22 36 | 0 40 | 3 41 | 3 24 | 6 23 | | n.a. |
| W22 | 11 7 | 18 31 | 5 8 | 18 40 | 2 4 | 10 57 | 0 38 | 16 43 | 0s 3 | 17 47 | 0 29 | 9 43 | 2 36 | 16 49 | 0 46 | 21 45 | 0 14 | 22 36 | 0 40 | 3 40 | 3 23 | 6 21 | | n.a. |
| T 23 | 11 28 | 18 5 | 5 15 | 19 15 | 2 9 | 11 25 | 0 36 | 16 42 | 0 6 | 17 51 | 0 29 | 9 44 | 2 36 | 16 49 | 0 46 | 21 45 | 0 14 | 22 36 | 0 40 | 3 39 | 3 22 | 6 19 | | n.a. |
| F 24 | 11 48 | 16 36 | 5 5 | 19 49 | 2 13 | 11 53 | 0 34 | 16 41 | 0 9 | 17 54 | 0 29 | 9 44 | 2 36 | 16 49 | 0 46 | 21 45 | 0 14 | 22 37 | 0 40 | 3 38 | 3 21 | 6 18 | | n.a. |
| S 25 | 12 8 | 14 6 | 4 37 | 20 20 | 2 17 | 12 20 | 0 32 | 16 39 | 0 13 | 17 58 | 0 29 | 9 45 | 2 36 | 16 49 | 0 46 | 21 45 | 0 14 | 22 37 | 0 40 | 3 38 | 3 19 | 6 16 | | n.a. |
| S 26 | 12 28 | 10 44 | 3 52 | 20 48 | 2 19 | 12 47 | 0 29 | 16 37 | 0 16 | 18 1 | 0 29 | 9 46 | 2 35 | 16 49 | 0 46 | 21 45 | 0 14 | 22 37 | 0 40 | 3 39 | 3 18 | 6 14 | | n.a. |
| M27 | 12 48 | 6 41 | 2 52 | 21 14 | 2 21 | 13 14 | 0 27 | 16 36 | 0 19 | 18 5 | 0 29 | 9 46 | 2 35 | 16 49 | 0 46 | 21 45 | 0 14 | 22 37 | 0 40 | 3 39 | 3 17 | 6 12 | | n.a. |
| T 28 | 13 8 | 2 11 | 1 40 | 21 38 | 2 22 | 13 41 | 0 25 | 16 34 | 0 23 | 18 9 | 0 29 | 9 47 | 2 35 | 16 49 | 0 46 | 21 45 | 0 14 | 22 37 | 0 40 | 3 40 | 3 15 | 6 11 | | n.a. |
| W29 | 13 27 | 2s29 | 0 21 | 22 0 | 2 23 | 14 7 | 0 23 | 16 31 | 0 26 | 18 12 | 0 29 | 9 47 | 2 35 | 16 49 | 0 46 | 21 45 | 0 14 | 22 37 | 0 40 | 3 40 | 3 14 | 6 9 | | n.a. |
| T 30 | 13n47 | 6s59 | 0n59 | 22n19 | 2n22 | 14n33 | 0s20 | 16s29 | 0s30 | 18n16 | 0s28 | 9n48 | 2n35 | 16n49 | 0n45 | 21n45 | 0n14 | 22n38 | 0s40 | 3s40 | 3s13 | 6s 7 | | n.a. |

Julian Day Number = 1702520.5, Delta T = 03h04m50s
Ecliptic obliquity = 23°41'56, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°46'41, Lahiri = - 4°39'40 Julian Calendar 1 Apr. 52 BCE == Greg. Calendar 30 March 052 BCE


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# ASTRODIENST EPHEMERIS for the year 52 BCE
# geocentric

## MAY 52 BCE (-51) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 14 25 3 | 7♉17'28 | 4♏29 | 29♉41 | 10♉54 | 13°R 3 | 23♉13 | 11°R14 | 16♌23 | 24♋ 9 | 19♊38 | 9°R 8 | 7♎58 | 8♓37 | n.a. | F 1 |
| S 2 | 14 29 0 | 8°14'49 | 18°45 | 0♊59 | 12° 8 | 12♏44 | 23°26 | 11♍13 | 16°24 | 24° 9 | 19°40 | 9♎ 5 | 7°55 | 8°44 | n.a. | S 2 |
| S 3 | 14 32 56 | 9°12'10 | 2♐43 | 2°13 | 13°22 | 12°25 | 23°40 | 11°11 | 16°24 | 24°10 | 19°41 | 9° 0 | 7°52 | 8°50 | n.a. | S 3 |
| M 4 | 14 36 53 | 10° 9'30 | 16°19 | 3°24 | 14°35 | 12° 5 | 23°53 | 11°10 | 16°24 | 24°11 | 19°42 | 8°56 | 7°49 | 8°57 | n.a. | M 4 |
| T 5 | 14 40 49 | 11° 6'50 | 29°32 | 4°32 | 15°49 | 11°46 | 24° 7 | 11° 9 | 16°25 | 24°12 | 19°43 | 8°51 | 7°45 | 9° 4 | n.a. | T 5 |
| W 6 | 14 44 46 | 12° 4'08 | 12♑23 | 5°36 | 17° 3 | 11°26 | 24°20 | 11° 8 | 16°25 | 24°13 | 19°45 | 8°47 | 7°42 | 9°10 | n.a. | W 6 |
| T 7 | 14 48 42 | 13° 1'26 | 24°53 | 6°37 | 18°16 | 11° 7 | 24°34 | 11° 7 | 16°26 | 24°14 | 19°46 | 8°44 | 7°39 | 9°17 | n.a. | T 7 |
| F 8 | 14 52 39 | 13°58'43 | 7♒ 5 | 7°34 | 19°30 | 10°47 | 24°47 | 11° 6 | 16°26 | 24°15 | 19°47 | 8°43 | 7°36 | 9°24 | n.a. | F 8 |
| S 9 | 14 56 35 | 14°56'00 | 19° 5 | 8°27 | 20°44 | 10°27 | 25° 1 | 11° 5 | 16°27 | 24°16 | 19°49 | 8°D42 | 7°33 | 9°30 | n.a. | S 9 |
| S 10 | 15 0 32 | 15°53'16 | 0♓57 | 9°16 | 21°57 | 10° 7 | 25°15 | 11° 4 | 16°28 | 24°17 | 19°50 | 8°43 | 7°29 | 9°37 | n.a. | S 10 |
| M11 | 15 4 29 | 16°50'31 | 12°46 | 10° 2 | 23°11 | 9°48 | 25°28 | 11° 3 | 16°28 | 24°18 | 19°51 | 8°45 | 7°26 | 9°44 | n.a. | M11 |
| T 12 | 15 8 25 | 17°47'47 | 24°37 | 10°43 | 24°25 | 9°28 | 25°42 | 11° 3 | 16°29 | 24°19 | 19°53 | 8°46 | 7°23 | 9°50 | n.a. | T 12 |
| W13 | 15 12 22 | 18°45'01 | 6♈34 | 11°21 | 25°38 | 9° 9 | 25°56 | 11° 2 | 16°30 | 24°20 | 19°54 | 8°R47 | 7°20 | 9°57 | n.a. | W13 |
| T 14 | 15 16 18 | 19°42'15 | 18°42 | 11°54 | 26°52 | 8°50 | 26° 9 | 11° 2 | 16°31 | 24°21 | 19°55 | 8°47 | 7°17 | 10° 4 | n.a. | T 14 |
| F 15 | 15 20 15 | 20°39'29 | 1♉ 3 | 12°23 | 28° 6 | 8°31 | 26°23 | 11° 2 | 16°32 | 24°22 | 19°57 | 8°44 | 7°14 | 10°10 | n.a. | F 15 |
| S 16 | 15 24 11 | 21°36'42 | 13°40 | 12°48 | 29°19 | 8°12 | 26°37 | 11° 2 | 16°33 | 24°23 | 19°58 | 8°40 | 7°10 | 10°17 | n.a. | S 16 |
| S 17 | 15 28 8 | 22°33'55 | 26°32 | 13° 8 | 0♊33 | 7°54 | 26°50 | 11°D 2 | 16°34 | 24°25 | 20° 0 | 8°34 | 7° 7 | 10°24 | n.a. | S 17 |
| M18 | 15 32 4 | 23°31'07 | 9♊41 | 13°24 | 1°46 | 7°36 | 27° 4 | 11° 2 | 16°35 | 24°26 | 20° 1 | 8°27 | 7° 4 | 10°30 | n.a. | M18 |
| T 19 | 15 36 1 | 24°28'18 | 23° 5 | 13°35 | 3° 0 | 7°19 | 27°18 | 11° 2 | 16°36 | 24°27 | 20° 2 | 8°20 | 7° 1 | 10°37 | n.a. | T 19 |
| W20 | 15 39 58 | 25°25'29 | 6♋42 | 13°42 | 4°14 | 7° 2 | 27°31 | 11° 2 | 16°37 | 24°29 | 20° 4 | 8°13 | 6°58 | 10°44 | n.a. | W20 |
| T 21 | 15 43 54 | 26°22'40 | 20°29 | 13°R44 | 5°27 | 6°46 | 27°45 | 11° 2 | 16°39 | 24°30 | 20° 5 | 8° 7 | 6°55 | 10°50 | n.a. | T 21 |
| F 22 | 15 47 51 | 27°19'49 | 4♌25 | 13°41 | 6°41 | 6°30 | 27°59 | 11° 3 | 16°40 | 24°31 | 20° 7 | 8° 2 | 6°51 | 10°57 | n.a. | F 22 |
| S 23 | 15 51 47 | 28°16'58 | 18°28 | 13°35 | 7°55 | 6°15 | 28°13 | 11° 3 | 16°41 | 24°33 | 20° 8 | 8° 0 | 6°48 | 11° 4 | n.a. | S 23 |
| S 24 | 15 55 44 | 29°14'07 | 2♍36 | 13°23 | 9° 8 | 6° 0 | 28°26 | 11° 4 | 16°43 | 24°34 | 20°10 | 8°D 0 | 6°45 | 11°10 | n.a. | S 24 |
| M25 | 15 59 40 | 0♊11'14 | 16°47 | 13° 8 | 10°22 | 5°46 | 28°40 | 11° 5 | 16°44 | 24°35 | 20°11 | 8° 1 | 6°42 | 11°17 | n.a. | M25 |
| T 26 | 16 3 37 | 1° 8'21 | 1♎ 0 | 12°49 | 11°35 | 5°33 | 28°54 | 11° 6 | 16°46 | 24°37 | 20°13 | 8°R 2 | 6°39 | 11°24 | n.a. | T 26 |
| W27 | 16 7 33 | 2° 5'28 | 15°14 | 12°26 | 12°49 | 5°20 | 29° 7 | 11° 7 | 16°47 | 24°38 | 20°14 | 8° 1 | 6°35 | 11°30 | n.a. | W27 |
| T 28 | 16 11 30 | 3° 2'34 | 29°24 | 11°59 | 14° 3 | 5° 8 | 29°21 | 11° 8 | 16°49 | 24°40 | 20°16 | 8° 0 | 6°32 | 11°37 | n.a. | T 28 |
| F 29 | 16 15 27 | 3°59'40 | 13♏29 | 11°30 | 15°16 | 4°57 | 29°35 | 11° 9 | 16°50 | 24°41 | 20°17 | 7°56 | 6°29 | 11°44 | n.a. | F 29 |
| S 30 | 16 19 23 | 4°56'45 | 27°24 | 10°58 | 16°30 | 4°47 | 29°48 | 11°10 | 16°52 | 24°43 | 20°19 | 7°49 | 6°26 | 11°50 | n.a. | S 30 |
| S 31 | 16 23 20 | 5♊53'51 | 11♐ 6 | 10♊24 | 17♊43 | 4♏37 | 0♊ 2 | 11♍11 | 16♌54 | 24♋45 | 20♊20 | 7♎41 | 6♎23 | 11♓57 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 14n 6 | 11s 2 | 2n15 | 22n36 | 2n21 | 14n58 | 0s18 | 16s27 | 0s33 | 18n19 | 0s28 | 9n48 | 2n34 | 16n49 | 0n45 | 21n45 | 0n14 | 22n38 | 0s40 | 3s39 | 3s12 | 6s 5 | | n.a. |
| S 2 | 14 24 | 14 23 | 3 20 | 22 51 | 2 19 | 15 24 | 0 16 | 16 24 | 0 37 | 18 23 | 0 28 | 9 49 | 2 34 | 16 49 | 0 45 | 21 44 | 0 14 | 22 38 | 0 40 | 3 38 | 3 10 | 6 3 | | n.a. |
| S 3 | 14 43 | 16 48 | 4 12 | 23 3 | 2 16 | 15 48 | 0 13 | 16 22 | 0 40 | 18 26 | 0 28 | 9 49 | 2 34 | 16 49 | 0 45 | 21 44 | 0 14 | 22 38 | 0 40 | 3 36 | 3 9 | 6 2 | | n.a. |
| M 4 | 15 1 | 18 12 | 4 49 | 23 14 | 2 13 | 16 13 | 0 11 | 16 19 | 0 44 | 18 30 | 0 28 | 9 49 | 2 34 | 16 49 | 0 45 | 21 44 | 0 14 | 22 38 | 0 40 | 3 35 | 3 8 | 6 0 | | n.a. |
| T 5 | 15 19 | 18 33 | 5 8 | 23 22 | 2 8 | 16 37 | 0 9 | 16 17 | 0 47 | 18 33 | 0 28 | 9 50 | 2 34 | 16 48 | 0 45 | 21 44 | 0 14 | 22 38 | 0 39 | 3 33 | 3 7 | 5 58 | | n.a. |
| W 6 | 15 37 | 17 56 | 5 12 | 23 29 | 2 3 | 17 0 | 0 6 | 16 14 | 0 51 | 18 37 | 0 28 | 9 50 | 2 33 | 16 48 | 0 45 | 21 44 | 0 14 | 22 39 | 0 39 | 3 31 | 3 5 | 5 56 | | n.a. |
| T 7 | 15 55 | 16 28 | 5 0 | 23 34 | 1 57 | 17 24 | 0 4 | 16 11 | 0 54 | 18 40 | 0 28 | 9 50 | 2 33 | 16 48 | 0 45 | 21 44 | 0 14 | 22 39 | 0 39 | 3 30 | 3 4 | 5 54 | | n.a. |
| F 8 | 16 12 | 14 16 | 4 35 | 23 37 | 1 50 | 17 46 | 0 2 | 16 8 | 0 58 | 18 44 | 0 28 | 9 50 | 2 33 | 16 48 | 0 45 | 21 43 | 0 14 | 22 39 | 0 39 | 3 29 | 3 3 | 5 53 | | n.a. |
| S 9 | 16 30 | 11 29 | 3 58 | 23 38 | 1 42 | 18 9 | 0n 1 | 16 5 | 1 1 | 18 47 | 0 27 | 9 50 | 2 33 | 16 48 | 0 45 | 21 43 | 0 14 | 22 39 | 0 39 | 3 29 | 3 2 | 5 51 | | n.a. |
| S 10 | 16 46 | 8 16 | 3 12 | 23 37 | 1 33 | 18 30 | 0 3 | 16 2 | 1 5 | 18 50 | 0 27 | 9 50 | 2 33 | 16 47 | 0 45 | 21 43 | 0 14 | 22 39 | 0 39 | 3 30 | 3 0 | 5 49 | | n.a. |
| M11 | 17 3 | 4 44 | 2 17 | 23 35 | 1 24 | 18 52 | 0 6 | 15 59 | 1 8 | 18 54 | 0 27 | 9 50 | 2 32 | 16 47 | 0 45 | 21 43 | 0 14 | 22 39 | 0 39 | 3 30 | 2 59 | 5 47 | | n.a. |
| T 12 | 17 19 | 1 0 | 1 17 | 23 31 | 1 14 | 19 12 | 0 8 | 15 56 | 1 12 | 18 57 | 0 27 | 9 50 | 2 32 | 16 47 | 0 45 | 21 43 | 0 14 | 22 40 | 0 39 | 3 31 | 2 58 | 5 45 | | n.a. |
| W13 | 17 35 | 2n49 | 0 12 | 23 25 | 1 3 | 19 33 | 0 10 | 15 53 | 1 15 | 19 1 | 0 27 | 9 50 | 2 32 | 16 47 | 0 45 | 21 43 | 0 14 | 22 40 | 0 39 | 3 31 | 2 56 | 5 44 | | n.a. |
| T 14 | 17 51 | 6 35 | 0s54 | 23 19 | 0 51 | 19 52 | 0 13 | 15 50 | 1 18 | 19 4 | 0 27 | 9 50 | 2 32 | 16 46 | 0 45 | 21 42 | 0 14 | 22 40 | 0 39 | 3 31 | 2 55 | 5 42 | | n.a. |
| F 15 | 18 7 | 10 7 | 1 58 | 23 10 | 0 39 | 20 12 | 0 15 | 15 47 | 1 22 | 19 7 | 0 27 | 9 50 | 2 31 | 16 46 | 0 45 | 21 42 | 0 14 | 22 40 | 0 39 | 3 30 | 2 54 | 5 40 | | n.a. |
| S 16 | 18 22 | 13 17 | 2 58 | 23 1 | 0 26 | 20 30 | 0 18 | 15 44 | 1 25 | 19 11 | 0 27 | 9 50 | 2 31 | 16 46 | 0 45 | 21 42 | 0 14 | 22 40 | 0 39 | 3 28 | 2 53 | 5 38 | | n.a. |
| S 17 | 18 37 | 15 52 | 3 50 | 22 50 | 0 12 | 20 49 | 0 20 | 15 41 | 1 28 | 19 14 | 0 27 | 9 50 | 2 31 | 16 45 | 0 45 | 21 42 | 0 14 | 22 40 | 0 39 | 3 26 | 2 51 | 5 36 | | n.a. |
| M18 | 18 51 | 17 41 | 4 30 | 22 37 | 0s 2 | 21 6 | 0 22 | 15 38 | 1 32 | 19 17 | 0 26 | 9 50 | 2 31 | 16 45 | 0 45 | 21 41 | 0 14 | 22 41 | 0 39 | 3 23 | 2 50 | 5 35 | | n.a. |
| T 19 | 19 6 | 18 34 | 4 57 | 22 24 | 0 17 | 21 23 | 0 25 | 15 36 | 1 35 | 19 20 | 0 26 | 9 49 | 2 31 | 16 44 | 0 45 | 21 41 | 0 14 | 22 41 | 0 38 | 3 20 | 2 49 | 5 33 | | n.a. |
| W20 | 19 20 | 18 24 | 5 8 | 22 10 | 0 32 | 21 40 | 0 27 | 15 33 | 1 38 | 19 24 | 0 26 | 9 49 | 2 30 | 16 44 | 0 45 | 21 41 | 0 14 | 22 41 | 0 38 | 3 17 | 2 48 | 5 31 | | n.a. |
| T 21 | 19 33 | 17 9 | 5 1 | 21 54 | 0 48 | 21 55 | 0 29 | 15 30 | 1 41 | 19 27 | 0 26 | 9 49 | 2 30 | 16 44 | 0 45 | 21 41 | 0 14 | 22 41 | 0 38 | 3 15 | 2 46 | 5 29 | | n.a. |
| F 22 | 19 47 | 14 53 | 4 36 | 21 38 | 1 4 | 22 11 | 0 31 | 15 28 | 1 44 | 19 30 | 0 26 | 9 48 | 2 30 | 16 43 | 0 45 | 21 41 | 0 14 | 22 41 | 0 38 | 3 13 | 2 45 | 5 27 | | n.a. |
| S 23 | 20 0 | 11 44 | 3 55 | 21 21 | 1 20 | 22 25 | 0 34 | 15 26 | 1 47 | 19 33 | 0 26 | 9 48 | 2 30 | 16 43 | 0 45 | 21 40 | 0 14 | 22 42 | 0 38 | 3 13 | 2 44 | 5 26 | | n.a. |
| S 24 | 20 12 | 7 53 | 2 59 | 21 3 | 1 37 | 22 39 | 0 36 | 15 23 | 1 50 | 19 36 | 0 26 | 9 47 | 2 29 | 16 42 | 0 45 | 21 40 | 0 14 | 22 42 | 0 38 | 3 12 | 2 42 | 5 24 | | n.a. |
| M25 | 20 25 | 3 33 | 1 52 | 20 45 | 1 53 | 22 52 | 0 38 | 15 21 | 1 53 | 19 40 | 0 26 | 9 47 | 2 29 | 16 42 | 0 45 | 21 40 | 0 14 | 22 42 | 0 38 | 3 13 | 2 41 | 5 22 | | n.a. |
| T 26 | 20 37 | 0s59 | 0 38 | 20 26 | 2 10 | 23 5 | 0 40 | 15 19 | 1 55 | 19 43 | 0 26 | 9 46 | 2 29 | 16 41 | 0 44 | 21 40 | 0 14 | 22 42 | 0 38 | 3 13 | 2 40 | 5 20 | | n.a. |
| W27 | 20 48 | 5 28 | 0n39 | 20 7 | 2 26 | 23 17 | 0 43 | 15 18 | 1 58 | 19 46 | 0 26 | 9 46 | 2 29 | 16 41 | 0 44 | 21 39 | 0 14 | 22 42 | 0 38 | 3 13 | 2 39 | 5 18 | | n.a. |
| T 28 | 21 0 | 9 38 | 1 52 | 19 48 | 2 41 | 23 28 | 0 45 | 15 16 | 2 1 | 19 49 | 0 26 | 9 45 | 2 29 | 16 40 | 0 44 | 21 39 | 0 14 | 22 42 | 0 38 | 3 12 | 2 37 | 5 17 | | n.a. |
| F 29 | 21 11 | 13 13 | 2 58 | 19 29 | 2 57 | 23 39 | 0 47 | 15 15 | 2 3 | 19 52 | 0 25 | 9 45 | 2 28 | 16 40 | 0 44 | 21 39 | 0 14 | 22 43 | 0 38 | 3 11 | 2 36 | 5 15 | | n.a. |
| S 30 | 21 21 | 16 1 | 3 53 | 19 11 | 3 11 | 23 49 | 0 49 | 15 14 | 2 6 | 19 55 | 0 25 | 9 44 | 2 28 | 16 39 | 0 44 | 21 38 | 0 14 | 22 43 | 0 38 | 3 8 | 2 35 | 5 13 | | n.a. |
| S 31 | 21n31 | 17s51 | 4n33 | 18n52 | 3s25 | 23n58 | 0n51 | 15s13 | 2s 8 | 19n58 | 0s25 | 9n43 | 2n28 | 16n39 | 0n44 | 21n38 | 0n14 | 22n43 | 0s38 | 3s 5 | 2s34 | 5s11 | | n.a. |

Julian Day Number = 1702550.5, Delta T = 03h04m49s
Ecliptic obliquity = 23°41'56, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°46'37, Lahiri = - 4°39'36 Julian Calendar 1 May 52 BCE == Greg. Calendar 29 Apr. 052 BCE

The year -51 astronomical counting style corresponds to year 052 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 52 BCE
# geocentric

## JUNE 52 BCE (-51) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 16 27 16 | 6♊50'56 | 24♐30 | 9°R49 | 18♊57 | 4°R29 | 0♊16 | 11♍13 | 16♌56 | 24♋46 | 20♊22 | 7°R31 | 6♎20 | 12♓ 4 | n.a. | M 1 |
| T 2 | 16 31 13 | 7°48'02 | 7♑36 | 9♊13 | 20°10 | 4♏21 | 0°29 | 11°14 | 16°58 | 24°48 | 20°23 | 7♎21 | 6°16 | 12°10 | n.a. | T 2 |
| W 3 | 16 35 9 | 8°45'08 | 20°22 | 8°36 | 21°24 | 4°14 | 0°43 | 11°16 | 16°59 | 24°50 | 20°25 | 7°12 | 6°13 | 12°17 | n.a. | W 3 |
| T 4 | 16 39 6 | 9°42'14 | 2♒50 | 8° 0 | 22°38 | 4° 7 | 0°56 | 11°18 | 17° 1 | 24°51 | 20°26 | 7° 5 | 6°10 | 12°24 | n.a. | T 4 |
| F 5 | 16 43 2 | 10°39'20 | 15° 2 | 7°25 | 23°51 | 4° 2 | 1°10 | 11°20 | 17° 3 | 24°53 | 20°28 | 6°59 | 6° 7 | 12°30 | n.a. | F 5 |
| S 6 | 16 46 59 | 11°36'26 | 27° 2 | 6°52 | 25° 5 | 3°57 | 1°24 | 11°22 | 17° 5 | 24°55 | 20°30 | 6°56 | 6° 4 | 12°37 | n.a. | S 6 |
| S 7 | 16 50 56 | 12°33'33 | 8♓53 | 6°21 | 26°18 | 3°53 | 1°37 | 11°24 | 17° 7 | 24°56 | 20°31 | 6°D55 | 6° 1 | 12°44 | n.a. | S 7 |
| M 8 | 16 54 52 | 13°30'40 | 20°43 | 5°53 | 27°32 | 3°50 | 1°51 | 11°26 | 17°10 | 24°58 | 20°33 | 6°55 | 5°57 | 12°50 | n.a. | M 8 |
| T 9 | 16 58 49 | 14°27'48 | 2♈34 | 5°27 | 28°45 | 3°48 | 2° 4 | 11°28 | 17°12 | 25° 0 | 20°34 | 6°R56 | 5°54 | 12°57 | n.a. | T 9 |
| W10 | 17 2 45 | 15°24'56 | 14°34 | 5° 6 | 29°59 | 3°46 | 2°18 | 11°30 | 17°14 | 25° 2 | 20°36 | 6°55 | 5°51 | 13° 4 | n.a. | W10 |
| T 11 | 17 6 42 | 16°22'05 | 26°47 | 4°49 | 1♋13 | 3°D46 | 2°31 | 11°33 | 17°16 | 25° 3 | 20°37 | 6°54 | 5°48 | 13°10 | n.a. | T 11 |
| F 12 | 17 10 38 | 17°19'14 | 9♉16 | 4°36 | 2°26 | 3°46 | 2°45 | 11°35 | 17°18 | 25° 5 | 20°39 | 6°50 | 5°45 | 13°17 | n.a. | F 12 |
| S 13 | 17 14 35 | 18°16'24 | 22° 6 | 4°28 | 3°40 | 3°47 | 2°58 | 11°38 | 17°21 | 25° 7 | 20°40 | 6°43 | 5°41 | 13°23 | n.a. | S 13 |
| S 14 | 17 18 31 | 19°13'34 | 5♊16 | 4°D25 | 4°53 | 3°49 | 3°12 | 11°40 | 17°23 | 25° 9 | 20°42 | 6°34 | 5°38 | 13°30 | n.a. | S 14 |
| M15 | 17 22 28 | 20°10'45 | 18°46 | 4°27 | 6° 7 | 3°52 | 3°25 | 11°43 | 17°26 | 25°11 | 20°44 | 6°24 | 5°35 | 13°37 | n.a. | M15 |
| T 16 | 17 26 25 | 21° 7'56 | 2♋35 | 4°34 | 7°20 | 3°55 | 3°38 | 11°46 | 17°28 | 25°13 | 20°45 | 6°12 | 5°32 | 13°43 | n.a. | T 16 |
| W17 | 17 30 21 | 22° 5'08 | 16°38 | 4°47 | 8°34 | 4° 0 | 3°52 | 11°49 | 17°30 | 25°15 | 20°47 | 6° 1 | 5°29 | 13°50 | n.a. | W17 |
| T 18 | 17 34 18 | 23° 2'20 | 0♌50 | 5° 5 | 9°47 | 4° 5 | 4° 5 | 11°52 | 17°33 | 25°17 | 20°48 | 5°52 | 5°26 | 13°57 | n.a. | T 18 |
| F 19 | 17 38 14 | 23°59'32 | 15° 7 | 5°29 | 11° 1 | 4°11 | 4°18 | 11°55 | 17°36 | 25°19 | 20°50 | 5°45 | 5°22 | 14° 3 | n.a. | F 19 |
| S 20 | 17 42 11 | 24°56'44 | 29°23 | 5°59 | 12°14 | 4°18 | 4°31 | 11°58 | 17°38 | 25°21 | 20°51 | 5°41 | 5°19 | 14°10 | n.a. | S 20 |
| S 21 | 17 46 7 | 25°53'57 | 13♍37 | 6°34 | 13°28 | 4°26 | 4°45 | 12° 1 | 17°41 | 25°23 | 20°53 | 5°39 | 5°16 | 14°17 | n.a. | S 21 |
| M22 | 17 50 4 | 26°51'10 | 27°46 | 7°14 | 14°41 | 4°34 | 4°58 | 12° 5 | 17°43 | 25°25 | 20°55 | 5°39 | 5°13 | 14°23 | n.a. | M22 |
| T 23 | 17 54 1 | 27°48'24 | 11♎48 | 8° 0 | 15°55 | 4°43 | 5°11 | 12° 8 | 17°46 | 25°27 | 20°56 | 5°39 | 5°10 | 14°30 | n.a. | T 23 |
| W24 | 17 57 57 | 28°45'38 | 25°44 | 8°51 | 17° 8 | 4°53 | 5°24 | 12°12 | 17°49 | 25°29 | 20°58 | 5°38 | 5° 7 | 14°37 | n.a. | W24 |
| T 25 | 18 1 54 | 29°42'52 | 9♏33 | 9°48 | 18°22 | 5° 4 | 5°37 | 12°15 | 17°52 | 25°31 | 20°59 | 5°35 | 5° 3 | 14°43 | n.a. | T 25 |
| F 26 | 18 5 50 | 0♋40'07 | 23°13 | 10°50 | 19°35 | 5°15 | 5°50 | 12°19 | 17°55 | 25°33 | 21° 1 | 5°29 | 5° 0 | 14°50 | n.a. | F 26 |
| S 27 | 18 9 47 | 1°37'23 | 6♐44 | 11°57 | 20°49 | 5°27 | 6° 3 | 12°23 | 17°57 | 25°35 | 21° 2 | 5°21 | 4°57 | 14°57 | n.a. | S 27 |
| S 28 | 18 13 43 | 2°34'39 | 20° 3 | 13° 9 | 22° 2 | 5°40 | 6°16 | 12°27 | 18° 0 | 25°37 | 21° 4 | 5°10 | 4°54 | 15° 3 | n.a. | S 28 |
| M29 | 18 17 40 | 3°31'56 | 3♑ 9 | 14°26 | 23°16 | 5°54 | 6°29 | 12°31 | 18° 3 | 25°39 | 21° 6 | 4°57 | 4°51 | 15°10 | n.a. | M29 |
| T 30 | 18 21 36 | 4♋29'14 | 16♑ 0 | 15♊48 | 24♋29 | 6♏ 8 | 6♊42 | 12♍35 | 18♌ 6 | 25♋41 | 21♊ 7 | 4♎44 | 4♎47 | 15♓17 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 21n41 | 18s38 | 4n57 | 18n35 | 3s37 | 24n 7 | 0n53 | 15s12 | 2s11 | 20n 1 | 0s25 | 9n42 | 2n28 | 16n38 | 0n44 | 21n38 | 0n14 | 22n43 | 0s38 | 3s 1 | 2s32 | 5s 9 | | n.a. |
| T 2 | 21 51 | 18 25 | 5 5 | 18 18 | 3 49 | 24 15 | 0 55 | 15 11 | 2 13 | 20 4 | 0 25 | 9 42 | 2 27 | 16 37 | 0 44 | 21 38 | 0 14 | 22 43 | 0 38 | 2 57 | 2 31 | 5 7 | | n.a. |
| W 3 | 22 0 | 17 15 | 4 57 | 18 2 | 3 59 | 24 22 | 0 57 | 15 11 | 2 15 | 20 7 | 0 25 | 9 41 | 2 27 | 16 37 | 0 44 | 21 37 | 0 14 | 22 43 | 0 38 | 2 53 | 2 30 | 5 6 | | n.a. |
| T 4 | 22 9 | 15 17 | 4 35 | 17 48 | 4 8 | 24 28 | 0 59 | 15 11 | 2 17 | 20 10 | 0 25 | 9 40 | 2 27 | 16 36 | 0 44 | 21 37 | 0 14 | 22 44 | 0 37 | 2 50 | 2 28 | 5 4 | | n.a. |
| F 5 | 22 17 | 12 40 | 4 1 | 17 35 | 4 16 | 24 34 | 1 1 | 15 11 | 2 20 | 20 13 | 0 25 | 9 39 | 2 27 | 16 36 | 0 44 | 21 37 | 0 14 | 22 44 | 0 37 | 2 48 | 2 27 | 5 2 | | n.a. |
| S 6 | 22 25 | 9 34 | 3 16 | 17 24 | 4 22 | 24 39 | 1 3 | 15 11 | 2 22 | 20 16 | 0 25 | 9 38 | 2 27 | 16 35 | 0 44 | 21 36 | 0 14 | 22 44 | 0 37 | 2 47 | 2 26 | 5 0 | | n.a. |
| S 7 | 22 33 | 6 6 | 2 24 | 17 14 | 4 26 | 24 43 | 1 5 | 15 12 | 2 24 | 20 18 | 0 25 | 9 37 | 2 26 | 16 34 | 0 44 | 21 36 | 0 14 | 22 44 | 0 37 | 2 46 | 2 25 | 4 58 | | n.a. |
| M 8 | 22 40 | 2 25 | 1 25 | 17 6 | 4 29 | 24 47 | 1 6 | 15 12 | 2 25 | 20 21 | 0 25 | 9 36 | 2 26 | 16 34 | 0 44 | 21 36 | 0 14 | 22 44 | 0 37 | 2 46 | 2 23 | 4 57 | | n.a. |
| T 9 | 22 47 | 1n23 | 0 23 | 17 0 | 4 31 | 24 50 | 1 8 | 15 13 | 2 27 | 20 24 | 0 24 | 9 35 | 2 26 | 16 33 | 0 44 | 21 35 | 0 14 | 22 45 | 0 37 | 2 47 | 2 22 | 4 55 | | n.a. |
| W10 | 22 53 | 5 11 | 0s41 | 16 56 | 4 31 | 24 52 | 1 10 | 15 14 | 2 29 | 20 27 | 0 24 | 9 34 | 2 26 | 16 32 | 0 44 | 21 35 | 0 14 | 22 45 | 0 37 | 2 47 | 2 21 | 4 53 | | n.a. |
| T 11 | 23 0 | 8 49 | 1 44 | 16 55 | 4 29 | 24 53 | 1 11 | 15 16 | 2 31 | 20 30 | 0 24 | 9 33 | 2 25 | 16 31 | 0 44 | 21 35 | 0 14 | 22 45 | 0 37 | 2 46 | 2 20 | 4 51 | | n.a. |
| F 12 | 23 5 | 12 10 | 2 43 | 16 55 | 4 27 | 24 53 | 1 13 | 15 18 | 2 32 | 20 32 | 0 24 | 9 32 | 2 25 | 16 31 | 0 44 | 21 35 | 0 14 | 22 45 | 0 37 | 2 44 | 2 18 | 4 49 | | n.a. |
| S 13 | 23 10 | 15 1 | 3 36 | 16 58 | 4 22 | 24 53 | 1 14 | 15 19 | 2 34 | 20 35 | 0 24 | 9 31 | 2 25 | 16 30 | 0 44 | 21 34 | 0 14 | 22 45 | 0 37 | 2 42 | 2 17 | 4 48 | | n.a. |
| S 14 | 23 15 | 17 10 | 4 18 | 17 3 | 4 17 | 24 52 | 1 16 | 15 22 | 2 36 | 20 38 | 0 24 | 9 29 | 2 25 | 16 29 | 0 44 | 21 34 | 0 14 | 22 45 | 0 37 | 2 38 | 2 16 | 4 46 | | n.a. |
| M15 | 23 20 | 18 26 | 4 48 | 17 10 | 4 10 | 24 51 | 1 17 | 15 24 | 2 37 | 20 40 | 0 24 | 9 28 | 2 25 | 16 28 | 0 44 | 21 34 | 0 14 | 22 46 | 0 37 | 2 34 | 2 15 | 4 44 | | n.a. |
| T 16 | 23 24 | 18 39 | 5 1 | 17 18 | 4 3 | 24 48 | 1 19 | 15 26 | 2 38 | 20 43 | 0 24 | 9 27 | 2 24 | 16 28 | 0 44 | 21 33 | 0 14 | 22 46 | 0 37 | 2 29 | 2 13 | 4 42 | | n.a. |
| W17 | 23 28 | 17 45 | 4 57 | 17 29 | 3 54 | 24 45 | 1 20 | 15 29 | 2 40 | 20 46 | 0 24 | 9 25 | 2 24 | 16 27 | 0 44 | 21 33 | 0 14 | 22 46 | 0 37 | 2 25 | 2 12 | 4 40 | | n.a. |
| T 18 | 23 31 | 15 44 | 4 34 | 17 42 | 3 44 | 24 41 | 1 21 | 15 32 | 2 41 | 20 48 | 0 24 | 9 24 | 2 24 | 16 26 | 0 44 | 21 32 | 0 14 | 22 46 | 0 37 | 2 21 | 2 11 | 4 38 | | n.a. |
| F 19 | 23 34 | 12 45 | 3 54 | 17 56 | 3 34 | 24 36 | 1 22 | 15 35 | 2 42 | 20 51 | 0 24 | 9 23 | 2 24 | 16 25 | 0 44 | 21 32 | 0 14 | 22 46 | 0 37 | 2 19 | 2 9 | 4 37 | | n.a. |
| S 20 | 23 36 | 9 1 | 2 59 | 18 13 | 3 23 | 24 31 | 1 24 | 15 39 | 2 43 | 20 53 | 0 24 | 9 21 | 2 24 | 16 24 | 0 44 | 21 32 | 0 14 | 22 46 | 0 36 | 2 17 | 2 8 | 4 35 | | n.a. |
| S 21 | 23 38 | 4 46 | 1 54 | 18 30 | 3 11 | 24 25 | 1 25 | 15 43 | 2 45 | 20 56 | 0 23 | 9 20 | 2 23 | 16 24 | 0 44 | 21 31 | 0 14 | 22 47 | 0 36 | 2 16 | 2 7 | 4 33 | | n.a. |
| M22 | 23 40 | 0 16 | 0 42 | 18 49 | 2 59 | 24 18 | 1 26 | 15 47 | 2 46 | 20 58 | 0 23 | 9 18 | 2 23 | 16 23 | 0 44 | 21 31 | 0 14 | 22 47 | 0 36 | 2 16 | 2 6 | 4 31 | | n.a. |
| T 23 | 23 41 | 4s13 | 0n33 | 19 9 | 2 46 | 24 10 | 1 27 | 15 51 | 2 47 | 21 1 | 0 23 | 9 17 | 2 23 | 16 22 | 0 44 | 21 31 | 0 14 | 22 47 | 0 36 | 2 16 | 2 4 | 4 29 | | n.a. |
| W24 | 23 42 | 8 26 | 1 44 | 19 30 | 2 32 | 24 2 | 1 28 | 15 55 | 2 48 | 21 3 | 0 23 | 9 15 | 2 23 | 16 21 | 0 44 | 21 30 | 0 14 | 22 47 | 0 36 | 2 16 | 2 3 | 4 28 | | n.a. |
| T 25 | 23 42 | 12 9 | 2 49 | 19 52 | 2 19 | 23 53 | 1 28 | 15 59 | 2 49 | 21 6 | 0 23 | 9 14 | 2 23 | 16 20 | 0 44 | 21 30 | 0 14 | 22 47 | 0 36 | 2 14 | 2 2 | 4 26 | | n.a. |
| F 26 | 23 42 | 15 11 | 3 43 | 20 15 | 2 5 | 23 43 | 1 29 | 16 4 | 2 49 | 21 8 | 0 23 | 9 12 | 2 22 | 16 19 | 0 43 | 21 30 | 0 14 | 22 47 | 0 36 | 2 12 | 2 1 | 4 24 | | n.a. |
| S 27 | 23 41 | 17 19 | 4 24 | 20 38 | 1 51 | 23 33 | 1 30 | 16 9 | 2 50 | 21 10 | 0 23 | 9 10 | 2 22 | 16 18 | 0 43 | 21 29 | 0 14 | 22 48 | 0 36 | 2 9 | 1 59 | 4 22 | | n.a. |
| S 28 | 23 40 | 18 30 | 4 50 | 21 1 | 1 37 | 23 22 | 1 30 | 16 14 | 2 51 | 21 13 | 0 23 | 9 9 | 2 22 | 16 17 | 0 43 | 21 29 | 0 14 | 22 48 | 0 36 | 2 4 | 1 58 | 4 20 | | n.a. |
| M29 | 23 39 | 18 39 | 5 0 | 21 24 | 1 23 | 23 10 | 1 31 | 16 20 | 2 52 | 21 15 | 0 23 | 9 7 | 2 22 | 16 16 | 0 43 | 21 28 | 0 14 | 22 48 | 0 36 | 1 59 | 1 57 | 4 18 | | n.a. |
| T 30 | 23n37 | 17s51 | 4n55 | 21n48 | 1s 9 | 22n57 | 1n32 | 16s25 | 2s53 | 21n17 | 0s23 | 9n 5 | 2n22 | 16n15 | 0n43 | 21n28 | 0n14 | 22n48 | 0s36 | 1s54 | 1s55 | 4s17 | | n.a. |

Julian Day Number = 1702581.5, Delta T = 03h04m48s
Ecliptic obliquity = 23°41'55, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°46'32, Lahiri = - 4°39'32 Julian Calendar 1 June 52 BCE == Greg. Calendar 30 May 052 BCE

The year -51 astronomical counting style corresponds to year 052 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 52 BCE
# geocentric

## JULY 52 BCE (-51) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 18 25 33 | 5♋26'33 | 28♉35 | 17♊15 | 25♋43 | 6♏23 | 6♊54 | 12♍39 | 18♌ 9 | 25♋43 | 21♊ 9 | 4°R33 | 4♎44 | 15♓23 | n.a. | W 1 |
| T 2 | 18 29 30 | 6°23'53 | 10♒56 | 18°46 | 26°56 | 6°38 | 7° 7 | 12°43 | 18°12 | 25°45 | 21°10 | 4♎22 | 4°41 | 15°30 | n.a. | T 2 |
| F 3 | 18 33 26 | 7°21'14 | 23° 3 | 20°22 | 28°10 | 6°54 | 7°20 | 12°47 | 18°15 | 25°47 | 21°12 | 4°15 | 4°38 | 15°37 | n.a. | F 3 |
| S 4 | 18 37 23 | 8°18'37 | 5♓ 0 | 22° 1 | 29°23 | 7°11 | 7°33 | 12°51 | 18°18 | 25°49 | 21°13 | 4°10 | 4°35 | 15°43 | n.a. | S 4 |
| S 5 | 18 41 19 | 9°16'00 | 16°50 | 23°44 | 0♌36 | 7°28 | 7°45 | 12°56 | 18°21 | 25°52 | 21°15 | 4° 7 | 4°32 | 15°50 | n.a. | S 5 |
| M 6 | 18 45 16 | 10°13'25 | 28°38 | 25°31 | 1°50 | 7°46 | 7°58 | 13° 0 | 18°25 | 25°54 | 21°16 | 4° 6 | 4°28 | 15°57 | n.a. | M 6 |
| T 7 | 18 49 12 | 11°10'51 | 10♈30 | 27°21 | 3° 3 | 8° 5 | 8°10 | 13° 5 | 18°28 | 25°56 | 21°18 | 4° 6 | 4°25 | 16° 3 | n.a. | T 7 |
| W 8 | 18 53 9 | 12° 8'18 | 22°29 | 29°14 | 4°17 | 8°24 | 8°23 | 13° 9 | 18°31 | 25°58 | 21°19 | 4° 6 | 4°22 | 16°10 | n.a. | W 8 |
| T 9 | 18 57 5 | 13° 5'47 | 4♉43 | 1♋ 9 | 5°30 | 8°44 | 8°35 | 13°14 | 18°34 | 26° 0 | 21°21 | 4° 4 | 4°19 | 16°17 | n.a. | T 9 |
| F 10 | 19 1 2 | 14° 3'18 | 17°16 | 3° 7 | 6°43 | 9° 4 | 8°47 | 13°19 | 18°37 | 26° 2 | 21°22 | 4° 1 | 4°16 | 16°23 | n.a. | F 10 |
| S 11 | 19 4 59 | 15° 0'50 | 0♊11 | 5° 6 | 7°57 | 9°25 | 9° 0 | 13°24 | 18°41 | 26° 5 | 21°24 | 3°54 | 4°13 | 16°30 | n.a. | S 11 |
| S 12 | 19 8 55 | 15°58'23 | 13°31 | 7° 7 | 9°10 | 9°46 | 9°12 | 13°29 | 18°44 | 26° 7 | 21°25 | 3°46 | 4° 9 | 16°36 | n.a. | S 12 |
| M13 | 19 12 52 | 16°55'58 | 27°17 | 9° 8 | 10°23 | 10° 8 | 9°24 | 13°34 | 18°47 | 26° 9 | 21°26 | 3°36 | 4° 6 | 16°43 | n.a. | M13 |
| T 14 | 19 16 48 | 17°53'34 | 11♋25 | 11°11 | 11°37 | 10°30 | 9°36 | 13°39 | 18°51 | 26°11 | 21°28 | 3°24 | 4° 3 | 16°50 | n.a. | T 14 |
| W15 | 19 20 45 | 18°51'12 | 25°51 | 13°13 | 12°50 | 10°53 | 9°48 | 13°44 | 18°54 | 26°13 | 21°29 | 3°13 | 4° 0 | 16°56 | n.a. | W15 |
| T 16 | 19 24 41 | 19°48'51 | 10♌28 | 15°16 | 14° 3 | 11°17 | 10° 0 | 13°49 | 18°57 | 26°16 | 21°31 | 3° 4 | 3°57 | 17° 3 | n.a. | T 16 |
| F 17 | 19 28 38 | 20°46'31 | 25° 9 | 17°19 | 15°17 | 11°41 | 10°12 | 13°54 | 19° 1 | 26°18 | 21°32 | 2°57 | 3°53 | 17°10 | n.a. | F 17 |
| S 18 | 19 32 34 | 21°44'12 | 9♍47 | 19°21 | 16°30 | 12° 5 | 10°24 | 13°59 | 19° 4 | 26°20 | 21°34 | 2°53 | 3°50 | 17°16 | n.a. | S 18 |
| S 19 | 19 36 31 | 22°41'54 | 24°17 | 21°23 | 17°43 | 12°30 | 10°35 | 14° 5 | 19° 8 | 26°22 | 21°35 | 2°51 | 3°47 | 17°23 | n.a. | S 19 |
| M20 | 19 40 28 | 23°39'38 | 8♎34 | 23°24 | 18°57 | 12°56 | 10°47 | 14°10 | 19°11 | 26°25 | 21°36 | 2°D51 | 3°44 | 17°30 | n.a. | M20 |
| T 21 | 19 44 24 | 24°37'23 | 22°37 | 25°24 | 20°10 | 13°22 | 10°59 | 14°16 | 19°15 | 26°27 | 21°38 | 2°R51 | 3°41 | 17°36 | n.a. | T 21 |
| W22 | 19 48 21 | 25°35'08 | 6♏26 | 27°23 | 21°23 | 13°48 | 11°10 | 14°21 | 19°18 | 26°29 | 21°39 | 2°51 | 3°38 | 17°43 | n.a. | W22 |
| T 23 | 19 52 17 | 26°32'56 | 20° 2 | 29°21 | 22°36 | 14°15 | 11°22 | 14°27 | 19°22 | 26°31 | 21°40 | 2°49 | 3°34 | 17°50 | n.a. | T 23 |
| F 24 | 19 56 14 | 27°30'44 | 3♐24 | 1♌18 | 23°49 | 14°42 | 11°33 | 14°33 | 19°25 | 26°33 | 21°42 | 2°44 | 3°31 | 17°56 | n.a. | F 24 |
| S 25 | 20 0 10 | 28°28'34 | 16°34 | 3°14 | 25° 3 | 15° 9 | 11°44 | 14°38 | 19°29 | 26°36 | 21°43 | 2°37 | 3°28 | 18° 3 | n.a. | S 25 |
| S 26 | 20 4 7 | 29°26'26 | 29°31 | 5° 8 | 26°16 | 15°37 | 11°55 | 14°44 | 19°32 | 26°38 | 21°44 | 2°28 | 3°25 | 18°10 | n.a. | S 26 |
| M27 | 20 8 3 | 0♌24'18 | 12♉17 | 7° 1 | 27°29 | 16° 6 | 12° 7 | 14°50 | 19°36 | 26°40 | 21°46 | 2°17 | 3°22 | 18°16 | n.a. | M27 |
| T 28 | 20 12 0 | 1°22'13 | 24°50 | 8°53 | 28°42 | 16°34 | 12°18 | 14°56 | 19°40 | 26°42 | 21°47 | 2° 6 | 3°19 | 18°23 | n.a. | T 28 |
| W29 | 20 15 57 | 2°20'09 | 7♒11 | 10°44 | 29°55 | 17° 4 | 12°29 | 15° 2 | 19°43 | 26°45 | 21°48 | 1°56 | 3°15 | 18°30 | n.a. | W29 |
| T 30 | 20 19 53 | 3°18'06 | 19°21 | 12°33 | 1♍ 8 | 17°33 | 12°39 | 15° 8 | 19°47 | 26°47 | 21°49 | 1°47 | 3°12 | 18°36 | n.a. | T 30 |
| F 31 | 20 23 50 | 4♌16'06 | 1♓22 | 14♌21 | 2♍21 | 18♏ 3 | 12♊50 | 15♍14 | 19♌51 | 26♋49 | 21♊51 | 1♎41 | 3♎ 9 | 18♓43 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat | decl | lat |
| W 1 | 23n35 | 16s11 | 4n35 | 22n10 | 0s55 | 22n44 | 1n32 | 16s31 | 2s53 | 21n20 | 0s23 | 9n 4 | 2n21 | 16n14 | 0n43 | 21n28 | 0n14 | 22n48 | 0s36 | 1s49 | 1s54 | 4s15 | | | n.a. |
| T 2 | 23 33 | 13 48 | 4 2 | 22 32 | 0 41 | 22 30 | 1 32 | 16 36 | 2 54 | 21 22 | 0 23 | 9 2 | 2 21 | 16 13 | 0 43 | 21 27 | 0 14 | 22 48 | 0 36 | 1 45 | 1 53 | 4 13 | | | n.a. |
| F 3 | 23 30 | 10 51 | 3 19 | 22 53 | 0 28 | 22 16 | 1 33 | 16 42 | 2 54 | 21 24 | 0 23 | 9 0 | 2 21 | 16 13 | 0 43 | 21 27 | 0 14 | 22 49 | 0 36 | 1 42 | 1 52 | 4 11 | | | n.a. |
| S 4 | 23 26 | 7 29 | 2 28 | 23 13 | 0 15 | 22 1 | 1 33 | 16 48 | 2 55 | 21 26 | 0 22 | 8 58 | 2 21 | 16 12 | 0 43 | 21 26 | 0 14 | 22 49 | 0 36 | 1 40 | 1 50 | 4 9 | | | n.a. |
| S 5 | 23 22 | 3 52 | 1 30 | 23 31 | 0 2 | 21 45 | 1 33 | 16 55 | 2 55 | 21 28 | 0 22 | 8 56 | 2 21 | 16 11 | 0 43 | 21 26 | 0 14 | 22 49 | 0 36 | 1 39 | 1 49 | 4 7 | | | n.a. |
| M 6 | 23 18 | 0 6 | 0 29 | 23 47 | 0n10 | 21 29 | 1 33 | 17 1 | 2 56 | 21 30 | 0 22 | 8 54 | 2 21 | 16 10 | 0 43 | 21 26 | 0 14 | 22 49 | 0 36 | 1 39 | 1 48 | 4 6 | | | n.a. |
| T 7 | 23 13 | 3n41 | 0s34 | 24 2 | 0 22 | 21 12 | 1 33 | 17 8 | 2 56 | 21 32 | 0 22 | 8 52 | 2 20 | 16 9 | 0 43 | 21 25 | 0 14 | 22 49 | 0 35 | 1 39 | 1 47 | 4 4 | | | n.a. |
| W 8 | 23 8 | 7 22 | 1 36 | 24 15 | 0 33 | 20 54 | 1 33 | 17 14 | 2 57 | 21 35 | 0 22 | 8 50 | 2 20 | 16 8 | 0 43 | 21 25 | 0 14 | 22 49 | 0 35 | 1 39 | 1 45 | 4 2 | | | n.a. |
| T 9 | 23 3 | 10 48 | 2 35 | 24 25 | 0 43 | 20 36 | 1 33 | 17 21 | 2 57 | 21 37 | 0 22 | 8 48 | 2 20 | 16 6 | 0 43 | 21 25 | 0 14 | 22 49 | 0 35 | 1 38 | 1 44 | 4 0 | | | n.a. |
| F 10 | 22 57 | 13 51 | 3 28 | 24 32 | 0 53 | 20 17 | 1 33 | 17 28 | 2 57 | 21 39 | 0 22 | 8 46 | 2 20 | 16 5 | 0 43 | 21 24 | 0 14 | 22 50 | 0 35 | 1 37 | 1 43 | 3 58 | | | n.a. |
| S 11 | 22 51 | 16 19 | 4 12 | 24 37 | 1 2 | 19 58 | 1 33 | 17 35 | 2 58 | 21 41 | 0 22 | 8 44 | 2 20 | 16 4 | 0 43 | 21 24 | 0 14 | 22 50 | 0 35 | 1 34 | 1 41 | 3 56 | | | n.a. |
| S 12 | 22 44 | 17 59 | 4 43 | 24 40 | 1 10 | 19 38 | 1 32 | 17 42 | 2 58 | 21 43 | 0 22 | 8 42 | 2 19 | 16 3 | 0 43 | 21 23 | 0 14 | 22 50 | 0 35 | 1 31 | 1 40 | 3 55 | | | n.a. |
| M13 | 22 37 | 18 40 | 5 0 | 24 40 | 1 17 | 19 18 | 1 32 | 17 50 | 2 58 | 21 44 | 0 22 | 8 40 | 2 19 | 16 2 | 0 43 | 21 23 | 0 14 | 22 50 | 0 35 | 1 27 | 1 39 | 3 53 | | | n.a. |
| T 14 | 22 29 | 18 14 | 4 59 | 24 36 | 1 23 | 18 57 | 1 31 | 17 57 | 2 59 | 21 46 | 0 22 | 8 38 | 2 19 | 16 1 | 0 43 | 21 22 | 0 14 | 22 50 | 0 35 | 1 22 | 1 38 | 3 51 | | | n.a. |
| W15 | 22 21 | 16 38 | 4 39 | 24 31 | 1 29 | 18 35 | 1 31 | 18 5 | 2 59 | 21 48 | 0 22 | 8 36 | 2 19 | 16 0 | 0 43 | 21 22 | 0 14 | 22 50 | 0 35 | 1 18 | 1 36 | 3 49 | | | n.a. |
| T 16 | 22 13 | 13 57 | 4 1 | 24 22 | 1 34 | 18 14 | 1 30 | 18 12 | 2 59 | 21 50 | 0 22 | 8 34 | 2 19 | 15 59 | 0 43 | 21 22 | 0 14 | 22 51 | 0 35 | 1 14 | 1 35 | 3 47 | | | n.a. |
| F 17 | 22 4 | 10 21 | 3 6 | 24 11 | 1 38 | 17 51 | 1 29 | 18 20 | 2 59 | 21 52 | 0 22 | 8 32 | 2 19 | 15 58 | 0 43 | 21 21 | 0 14 | 22 51 | 0 35 | 1 11 | 1 34 | 3 45 | | | n.a. |
| S 18 | 21 55 | 6 8 | 1 59 | 23 57 | 1 41 | 17 28 | 1 29 | 18 28 | 2 59 | 21 54 | 0 21 | 8 29 | 2 19 | 15 57 | 0 43 | 21 21 | 0 14 | 22 51 | 0 35 | 1 10 | 1 32 | 3 44 | | | n.a. |
| S 19 | 21 46 | 1 36 | 0 45 | 23 41 | 1 44 | 17 5 | 1 28 | 18 36 | 2 59 | 21 55 | 0 21 | 8 27 | 2 18 | 15 56 | 0 43 | 21 20 | 0 14 | 22 51 | 0 35 | 1 9 | 1 31 | 3 42 | | | n.a. |
| M20 | 21 36 | 2s58 | 0n30 | 23 23 | 1 46 | 16 41 | 1 27 | 18 44 | 2 59 | 21 57 | 0 21 | 8 25 | 2 18 | 15 55 | 0 43 | 21 20 | 0 14 | 22 51 | 0 35 | 1 9 | 1 30 | 3 40 | | | n.a. |
| T 21 | 21 26 | 7 18 | 1 43 | 23 2 | 1 47 | 16 17 | 1 26 | 18 52 | 2 59 | 21 59 | 0 21 | 8 23 | 2 18 | 15 54 | 0 43 | 21 20 | 0 14 | 22 51 | 0 35 | 1 9 | 1 29 | 3 38 | | | n.a. |
| W22 | 21 15 | 11 9 | 2 49 | 22 40 | 1 47 | 15 52 | 1 25 | 19 0 | 2 59 | 22 1 | 0 21 | 8 20 | 2 18 | 15 52 | 0 43 | 21 19 | 0 14 | 22 51 | 0 35 | 1 9 | 1 27 | 3 36 | | | n.a. |
| T 23 | 21 4 | 14 21 | 3 44 | 22 15 | 1 47 | 15 27 | 1 24 | 19 8 | 2 59 | 22 2 | 0 21 | 8 18 | 2 18 | 15 51 | 0 43 | 21 19 | 0 14 | 22 51 | 0 35 | 1 8 | 1 26 | 3 34 | | | n.a. |
| F 24 | 20 53 | 16 43 | 4 25 | 21 49 | 1 46 | 15 1 | 1 22 | 19 16 | 2 59 | 22 4 | 0 21 | 8 16 | 2 18 | 15 50 | 0 43 | 21 18 | 0 14 | 22 52 | 0 35 | 1 6 | 1 25 | 3 33 | | | n.a. |
| S 25 | 20 41 | 18 10 | 4 52 | 21 21 | 1 45 | 14 35 | 1 21 | 19 24 | 2 59 | 22 5 | 0 21 | 8 13 | 2 18 | 15 49 | 0 43 | 21 18 | 0 14 | 22 52 | 0 34 | 1 3 | 1 24 | 3 31 | | | n.a. |
| S 26 | 20 29 | 18 38 | 5 3 | 20 51 | 1 43 | 14 9 | 1 20 | 19 33 | 2 59 | 22 7 | 0 21 | 8 11 | 2 17 | 15 48 | 0 43 | 21 17 | 0 14 | 22 52 | 0 34 | 0 59 | 1 22 | 3 29 | | | n.a. |
| M27 | 20 17 | 18 9 | 4 59 | 20 20 | 1 41 | 13 42 | 1 18 | 19 41 | 2 59 | 22 9 | 0 21 | 8 9 | 2 17 | 15 47 | 0 43 | 21 17 | 0 14 | 22 52 | 0 34 | 0 55 | 1 21 | 3 27 | | | n.a. |
| T 28 | 20 4 | 16 47 | 4 41 | 19 48 | 1 38 | 13 15 | 1 17 | 19 49 | 2 59 | 22 10 | 0 21 | 8 6 | 2 17 | 15 46 | 0 43 | 21 17 | 0 14 | 22 52 | 0 34 | 0 51 | 1 20 | 3 25 | | | n.a. |
| W29 | 19 51 | 14 40 | 4 9 | 19 15 | 1 34 | 12 48 | 1 15 | 19 57 | 2 58 | 22 12 | 0 21 | 8 4 | 2 17 | 15 44 | 0 43 | 21 16 | 0 14 | 22 52 | 0 34 | 0 47 | 1 18 | 3 23 | | | n.a. |
| T 30 | 19 38 | 11 55 | 3 26 | 18 40 | 1 31 | 12 20 | 1 14 | 20 6 | 2 58 | 22 13 | 0 21 | 8 1 | 2 17 | 15 43 | 0 43 | 21 16 | 0 14 | 22 52 | 0 34 | 0 43 | 1 17 | 3 22 | | | n.a. |
| F 31 | 19n24 | 8s42 | 2n35 | 18n 5 | 1n26 | 11n52 | 1n12 | 20s14 | 2s58 | 22n15 | 0s21 | 7n59 | 2n17 | 15n42 | 0n43 | 21n15 | 0n14 | 22n53 | 0s34 | 0s40 | 1s16 | 3s20 | | | n.a. |

Julian Day Number = 1702611.5, Delta T = 03h04m47s
Ecliptic obliquity = 23°41'55, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°46'28, Lahiri = - 4°39'28 Julian Calendar 1 July 52 BCE == Greg. Calendar 29 June 052 BCE

The year -51 astronomical counting style corresponds to year 052 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 52 BCE
# geocentric

## AUGUST 52 BCE (-51) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 27 46 | 5♌14'07 | 13♓14 | 16♌ 7 | 3♍34 | 18♏33 | 13♊ 1 | 15♍20 | 19♌54 | 26♋51 | 21♊52 | 1°R36 | 3♎ 6 | 18♓50 | n.a. | S 1 |
| S 2 | 20 31 43 | 6°12'10 | 25° 2 | 17°53 | 4°47 | 19° 4 | 13°11 | 15°26 | 19°58 | 26°53 | 21°53 | 1♎34 | 3° 3 | 18°56 | n.a. | S 2 |
| M 3 | 20 35 39 | 7°10'15 | 6♈49 | 19°37 | 6° 0 | 19°35 | 13°22 | 15°32 | 20° 2 | 26°56 | 21°54 | 1°D34 | 2°59 | 19° 3 | n.a. | M 3 |
| T 4 | 20 39 36 | 8° 8'22 | 18°39 | 21°20 | 7°13 | 20° 6 | 13°32 | 15°38 | 20° 5 | 26°58 | 21°55 | 1°35 | 2°56 | 19° 9 | n.a. | T 4 |
| W 5 | 20 43 32 | 9° 6'31 | 0♉38 | 23° 1 | 8°26 | 20°37 | 13°43 | 15°45 | 20° 9 | 27° 0 | 21°57 | 1°36 | 2°53 | 19°16 | n.a. | W 5 |
| T 6 | 20 47 29 | 10° 4'42 | 12°50 | 24°42 | 9°39 | 21° 9 | 13°53 | 15°51 | 20°13 | 27° 2 | 21°58 | 1°R37 | 2°50 | 19°23 | n.a. | T 6 |
| F 7 | 20 51 26 | 11° 2'56 | 25°21 | 26°21 | 10°52 | 21°41 | 14° 3 | 15°57 | 20°17 | 27° 4 | 21°59 | 1°35 | 2°47 | 19°29 | n.a. | F 7 |
| S 8 | 20 55 22 | 12° 1'11 | 8♊15 | 27°59 | 12° 5 | 22°14 | 14°13 | 16° 4 | 20°20 | 27° 7 | 22° 0 | 1°32 | 2°44 | 19°36 | n.a. | S 8 |
| S 9 | 20 59 19 | 12°59'29 | 21°36 | 29°36 | 13°18 | 22°47 | 14°23 | 16°10 | 20°24 | 27° 9 | 22° 1 | 1°28 | 2°40 | 19°43 | n.a. | S 9 |
| M10 | 21 3 15 | 13°57'49 | 5♋25 | 1♍12 | 14°31 | 23°20 | 14°33 | 16°17 | 20°28 | 27°11 | 22° 2 | 1°21 | 2°37 | 19°49 | n.a. | M10 |
| T 11 | 21 7 12 | 14°56'11 | 19°41 | 2°46 | 15°44 | 23°53 | 14°42 | 16°23 | 20°32 | 27°13 | 22° 3 | 1°14 | 2°34 | 19°56 | n.a. | T 11 |
| W12 | 21 11 8 | 15°54'35 | 4♌20 | 4°20 | 16°56 | 24°27 | 14°52 | 16°30 | 20°35 | 27°15 | 22° 4 | 1° 7 | 2°31 | 20° 3 | n.a. | W12 |
| T 13 | 21 15 5 | 16°53'01 | 19°14 | 5°52 | 18° 9 | 25° 1 | 15° 2 | 16°36 | 20°39 | 27°17 | 22° 5 | 1° 1 | 2°28 | 20° 9 | n.a. | T 13 |
| F 14 | 21 19 1 | 17°51'29 | 4♍16 | 7°23 | 19°22 | 25°35 | 15°11 | 16°43 | 20°43 | 27°19 | 22° 6 | 0°56 | 2°24 | 20°16 | n.a. | F 14 |
| S 15 | 21 22 58 | 18°49'59 | 19°16 | 8°53 | 20°35 | 26° 9 | 15°20 | 16°50 | 20°47 | 27°22 | 22° 7 | 0°54 | 2°21 | 20°23 | n.a. | S 15 |
| S 16 | 21 26 54 | 19°48'31 | 4♎ 6 | 10°22 | 21°48 | 26°44 | 15°29 | 16°56 | 20°50 | 27°24 | 22° 8 | 0°D53 | 2°18 | 20°29 | n.a. | S 16 |
| M17 | 21 30 51 | 20°47'04 | 18°40 | 11°49 | 23° 0 | 27°19 | 15°38 | 17° 3 | 20°54 | 27°26 | 22° 9 | 0°54 | 2°15 | 20°36 | n.a. | M17 |
| T 18 | 21 34 48 | 21°45'39 | 2♏54 | 13°16 | 24°13 | 27°54 | 15°47 | 17°10 | 20°58 | 27°28 | 22°10 | 0°56 | 2°12 | 20°43 | n.a. | T 18 |
| W19 | 21 38 44 | 22°44'16 | 16°48 | 14°41 | 25°26 | 28°30 | 15°56 | 17°17 | 21° 2 | 27°30 | 22°11 | 0°R57 | 2° 9 | 20°49 | n.a. | W19 |
| T 20 | 21 42 41 | 23°42'55 | 0♐21 | 16° 5 | 26°38 | 29° 6 | 16° 5 | 17°23 | 21° 6 | 27°32 | 22°12 | 0°56 | 2° 5 | 20°56 | n.a. | T 20 |
| F 21 | 21 46 37 | 24°41'35 | 13°35 | 17°28 | 27°51 | 29°42 | 16°13 | 17°30 | 21° 9 | 27°34 | 22°12 | 0°55 | 2° 2 | 21° 2 | n.a. | F 21 |
| S 22 | 21 50 34 | 25°40'17 | 26°31 | 18°50 | 29° 3 | 0♐18 | 16°21 | 17°37 | 21°13 | 27°36 | 22°13 | 0°52 | 1°59 | 21° 9 | n.a. | S 22 |
| S 23 | 21 54 30 | 26°39'01 | 9♑13 | 20°10 | 0♎16 | 0°54 | 16°30 | 17°44 | 21°17 | 27°38 | 22°14 | 0°47 | 1°56 | 21°16 | n.a. | S 23 |
| M24 | 21 58 27 | 27°37'47 | 21°41 | 21°29 | 1°28 | 1°31 | 16°38 | 17°51 | 21°21 | 27°40 | 22°15 | 0°42 | 1°53 | 21°22 | n.a. | M24 |
| T 25 | 22 2 23 | 28°36'35 | 3♒59 | 22°46 | 2°41 | 2° 8 | 16°46 | 17°58 | 21°24 | 27°42 | 22°16 | 0°36 | 1°50 | 21°29 | n.a. | T 25 |
| W26 | 22 6 20 | 29°35'25 | 16° 6 | 24° 2 | 3°53 | 2°45 | 16°54 | 18° 5 | 21°28 | 27°44 | 22°16 | 0°30 | 1°46 | 21°36 | n.a. | W26 |
| T 27 | 22 10 17 | 0♍34'17 | 28° 6 | 25°17 | 5° 6 | 3°22 | 17° 2 | 18°12 | 21°32 | 27°46 | 22°17 | 0°26 | 1°43 | 21°42 | n.a. | T 27 |
| F 28 | 22 14 13 | 1°33'11 | 9♓59 | 26°30 | 6°18 | 3°59 | 17° 9 | 18°19 | 21°36 | 27°48 | 22°18 | 0°23 | 1°40 | 21°49 | n.a. | F 28 |
| S 29 | 22 18 10 | 2°32'07 | 21°48 | 27°41 | 7°30 | 4°37 | 17°17 | 18°26 | 21°39 | 27°50 | 22°18 | 0°21 | 1°37 | 21°56 | n.a. | S 29 |
| S 30 | 22 22 6 | 3°31'05 | 3♈35 | 28°50 | 8°43 | 5°15 | 17°24 | 18°33 | 21°43 | 27°52 | 22°19 | 0°D21 | 1°34 | 22° 2 | n.a. | S 30 |
| M31 | 22 26 3 | 4♍30'05 | 15♈23 | 29♍58 | 9♎55 | 5♐53 | 17♊31 | 18♍40 | 21♌47 | 27♋54 | 22♊20 | 0♎22 | 1♎30 | 22♓ 9 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 19n10 | 5s10 | 1n37 | 17n29 | 1n22 | 11n24 | 1n10 | 20s23 | 2s58 | 22n16 | 0s21 | 7n56 | 2n17 | 15n41 | 0n43 | 21n15 | 0n14 | 22n53 | 0s34 | 0s39 | 1s15 | 3s18 | | n.a. |
| S 2 | 18 55 | 1 27 | 0 35 | 16 51 | 1 17 | 10 55 | 1 8 | 20 31 | 2 58 | 22 17 | 0 20 | 7 54 | 2 17 | 15 40 | 0 43 | 21 15 | 0 14 | 22 53 | 0 34 | 0 38 | 1 13 | 3 16 | | n.a. |
| M 3 | 18 41 | 2n18 | 0s28 | 16 14 | 1 12 | 10 26 | 1 7 | 20 39 | 2 57 | 22 19 | 0 20 | 7 51 | 2 17 | 15 38 | 0 43 | 21 14 | 0 14 | 22 53 | 0 34 | 0 38 | 1 12 | 3 14 | | n.a. |
| T 4 | 18 26 | 5 59 | 1 31 | 15 35 | 1 6 | 9 57 | 1 5 | 20 48 | 2 57 | 22 20 | 0 20 | 7 49 | 2 16 | 15 37 | 0 43 | 21 14 | 0 15 | 22 53 | 0 34 | 0 38 | 1 11 | 3 12 | | n.a. |
| W 5 | 18 10 | 9 28 | 2 30 | 14 56 | 1 0 | 9 28 | 1 3 | 20 56 | 2 57 | 22 21 | 0 20 | 7 46 | 2 16 | 15 36 | 0 43 | 21 13 | 0 15 | 22 53 | 0 34 | 0 39 | 1 10 | 3 11 | | n.a. |
| T 6 | 17 55 | 12 37 | 3 24 | 14 17 | 0 54 | 8 58 | 1 0 | 21 4 | 2 56 | 22 23 | 0 20 | 7 44 | 2 16 | 15 35 | 0 43 | 21 13 | 0 15 | 22 53 | 0 34 | 0 39 | 1 8 | 3 9 | | n.a. |
| F 7 | 17 39 | 15 16 | 4 9 | 13 37 | 0 48 | 8 28 | 0 58 | 21 13 | 2 56 | 22 24 | 0 20 | 7 41 | 2 16 | 15 34 | 0 43 | 21 12 | 0 15 | 22 53 | 0 34 | 0 38 | 1 7 | 3 7 | | n.a. |
| S 8 | 17 22 | 17 15 | 4 44 | 12 57 | 0 42 | 7 58 | 0 56 | 21 21 | 2 56 | 22 25 | 0 20 | 7 38 | 2 16 | 15 32 | 0 43 | 21 12 | 0 15 | 22 54 | 0 34 | 0 37 | 1 6 | 3 5 | | n.a. |
| S 9 | 17 6 | 18 22 | 5 4 | 12 17 | 0 35 | 7 28 | 0 54 | 21 29 | 2 55 | 22 26 | 0 20 | 7 36 | 2 16 | 15 31 | 0 43 | 21 12 | 0 15 | 22 54 | 0 34 | 0 35 | 1 4 | 3 3 | | n.a. |
| M10 | 16 49 | 18 28 | 5 8 | 11 36 | 0 28 | 6 57 | 0 51 | 21 37 | 2 55 | 22 28 | 0 20 | 7 33 | 2 16 | 15 30 | 0 43 | 21 11 | 0 15 | 22 54 | 0 34 | 0 33 | 1 3 | 3 1 | | n.a. |
| T 11 | 16 32 | 17 24 | 4 53 | 10 55 | 0 21 | 6 26 | 0 49 | 21 45 | 2 54 | 22 29 | 0 20 | 7 31 | 2 16 | 15 29 | 0 43 | 21 11 | 0 15 | 22 54 | 0 34 | 0 30 | 1 2 | 3 0 | | n.a. |
| W12 | 16 14 | 15 12 | 4 19 | 10 14 | 0 14 | 5 55 | 0 47 | 21 54 | 2 54 | 22 30 | 0 20 | 7 28 | 2 16 | 15 28 | 0 43 | 21 10 | 0 15 | 22 54 | 0 34 | 0 27 | 1 1 | 2 58 | | n.a. |
| T 13 | 15 57 | 11 57 | 3 26 | 9 33 | 0 6 | 5 24 | 0 44 | 22 2 | 2 53 | 22 31 | 0 20 | 7 25 | 2 16 | 15 26 | 0 43 | 21 10 | 0 15 | 22 54 | 0 34 | 0 24 | 0 59 | 2 56 | | n.a. |
| F 14 | 15 39 | 7 53 | 2 19 | 8 52 | 0s 1 | 4 53 | 0 42 | 22 10 | 2 53 | 22 32 | 0 20 | 7 23 | 2 15 | 15 25 | 0 43 | 21 10 | 0 15 | 22 54 | 0 33 | 0 23 | 0 58 | 2 54 | | n.a. |
| S 15 | 15 20 | 3 20 | 1 3 | 8 11 | 0 9 | 4 22 | 0 39 | 22 18 | 2 53 | 22 33 | 0 20 | 7 20 | 2 15 | 15 24 | 0 43 | 21 9 | 0 15 | 22 54 | 0 33 | 0 22 | 0 57 | 2 52 | | n.a. |
| S 16 | 15 2 | 1s23 | 0n17 | 7 30 | 0 17 | 3 51 | 0 36 | 22 25 | 2 52 | 22 34 | 0 20 | 7 17 | 2 15 | 15 23 | 0 43 | 21 9 | 0 15 | 22 54 | 0 33 | 0 21 | 0 56 | 2 50 | | n.a. |
| M17 | 14 43 | 5 55 | 1 35 | 6 50 | 0 24 | 3 19 | 0 34 | 22 33 | 2 52 | 22 35 | 0 20 | 7 14 | 2 15 | 15 22 | 0 43 | 21 8 | 0 15 | 22 55 | 0 33 | 0 22 | 0 54 | 2 49 | | n.a. |
| T 18 | 14 24 | 10 1 | 2 46 | 6 9 | 0 32 | 2 47 | 0 31 | 22 41 | 2 51 | 22 36 | 0 19 | 7 12 | 2 15 | 15 20 | 0 43 | 21 8 | 0 15 | 22 55 | 0 33 | 0 22 | 0 53 | 2 47 | | n.a. |
| W19 | 14 5 | 13 27 | 3 44 | 5 29 | 0 40 | 2 16 | 0 28 | 22 48 | 2 50 | 22 37 | 0 19 | 7 9 | 2 15 | 15 19 | 0 43 | 21 8 | 0 15 | 22 55 | 0 33 | 0 23 | 0 52 | 2 45 | | n.a. |
| T 20 | 13 46 | 16 4 | 4 29 | 4 48 | 0 48 | 1 44 | 0 25 | 22 56 | 2 50 | 22 38 | 0 19 | 7 6 | 2 15 | 15 18 | 0 43 | 21 7 | 0 15 | 22 55 | 0 33 | 0 23 | 0 50 | 2 43 | | n.a. |
| F 21 | 13 26 | 17 45 | 4 58 | 4 9 | 0 56 | 1 12 | 0 22 | 23 3 | 2 49 | 22 39 | 0 19 | 7 3 | 2 15 | 15 17 | 0 43 | 21 7 | 0 15 | 22 55 | 0 33 | 0 22 | 0 49 | 2 41 | | n.a. |
| S 22 | 13 6 | 18 28 | 5 11 | 3 29 | 1 4 | 0 40 | 0 19 | 23 11 | 2 49 | 22 40 | 0 19 | 7 1 | 2 15 | 15 15 | 0 43 | 21 6 | 0 15 | 22 55 | 0 33 | 0 21 | 0 48 | 2 39 | | n.a. |
| S 23 | 12 46 | 18 15 | 5 9 | 2 50 | 1 12 | 0 8 | 0 16 | 23 18 | 2 48 | 22 41 | 0 19 | 6 58 | 2 15 | 15 14 | 0 43 | 21 6 | 0 15 | 22 55 | 0 33 | 0 19 | 0 47 | 2 37 | | n.a. |
| M24 | 12 26 | 17 8 | 4 51 | 2 11 | 1 20 | 0s23 | 0 13 | 23 25 | 2 47 | 22 42 | 0 19 | 6 55 | 2 15 | 15 13 | 0 43 | 21 6 | 0 15 | 22 55 | 0 33 | 0 17 | 0 45 | 2 36 | | n.a. |
| T 25 | 12 5 | 15 14 | 4 21 | 1 33 | 1 28 | 0 55 | 0 10 | 23 32 | 2 47 | 22 43 | 0 19 | 6 52 | 2 15 | 15 12 | 0 43 | 21 5 | 0 15 | 22 55 | 0 33 | 0 14 | 0 44 | 2 34 | | n.a. |
| W26 | 11 44 | 12 42 | 3 39 | 0 55 | 1 36 | 1 27 | 0 7 | 23 39 | 2 46 | 22 44 | 0 19 | 6 49 | 2 15 | 15 11 | 0 43 | 21 5 | 0 15 | 22 55 | 0 33 | 0 12 | 0 43 | 2 32 | | n.a. |
| T 27 | 11 23 | 9 38 | 2 48 | 0 18 | 1 44 | 1 59 | 0 4 | 23 46 | 2 46 | 22 45 | 0 19 | 6 47 | 2 15 | 15 9 | 0 43 | 21 5 | 0 15 | 22 56 | 0 33 | 0 10 | 0 41 | 2 30 | | n.a. |
| F 28 | 11 2 | 6 13 | 1 50 | 0s18 | 1 52 | 2 31 | 0 1 | 23 52 | 2 45 | 22 45 | 0 19 | 6 44 | 2 15 | 15 8 | 0 43 | 21 4 | 0 15 | 22 56 | 0 33 | 0 9 | 0 40 | 2 28 | | n.a. |
| S 29 | 10 41 | 2 34 | 0 47 | 0 54 | 2 0 | 3 3 | 0s 2 | 23 59 | 2 44 | 22 46 | 0 19 | 6 41 | 2 15 | 15 7 | 0 43 | 21 4 | 0 15 | 22 56 | 0 33 | 0 8 | 0 39 | 2 26 | | n.a. |
| S 30 | 10 19 | 1n10 | 0s18 | 1 28 | 2 7 | 3 35 | 0 6 | 24 5 | 2 44 | 22 47 | 0 19 | 6 38 | 2 15 | 15 6 | 0 43 | 21 3 | 0 15 | 22 56 | 0 33 | 0 8 | 0 38 | 2 25 | | n.a. |
| M31 | 9n58 | 4n52 | 1s22 | 2s 2 | 2s15 | 4s 6 | 0s 9 | 24s12 | 2s43 | 22n48 | 0s19 | 6n35 | 2n15 | 15n 5 | 0n43 | 21n 3 | 0n15 | 22n56 | 0s33 | 0s 9 | 0s36 | 2s23 | | n.a. |

Julian Day Number = 1702642.5, Delta T = 03h04m47s
Ecliptic obliquity = 23°41'55, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°46'24, Lahiri = - 4°39'24 Julian Calendar 1 Aug. 52 BCE == Greg. Calendar 30 July 052 BCE

The year -51 astronomical counting style corresponds to year 052 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 52 BCE
# geocentric

## SEPTEMBER 52 BCE (-51) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 22 29 59 | 5♍29'08 | 27♈15 | 1♎ 3 | 11♎ 7 | 6♐31 | 17♊38 | 18♍47 | 21♌51 | 27♋55 | 22♊20 | 0♎23 | 1♎27 | 22♓16 | n.a. | T 1 |
| W 2 | 22 33 56 | 6°28'13 | 9♉14 | 2° 6 | 12°19 | 7° 9 | 17°45 | 18°54 | 21°54 | 27°57 | 22°21 | 0°25 | 1°24 | 22°22 | n.a. | W 2 |
| T 3 | 22 37 52 | 7°27'21 | 21°26 | 3° 7 | 13°32 | 7°48 | 17°52 | 19° 2 | 21°58 | 27°59 | 22°22 | 0°26 | 1°21 | 22°29 | n.a. | T 3 |
| F 4 | 22 41 49 | 8°26'30 | 3♊55 | 4° 5 | 14°44 | 8°27 | 17°58 | 19° 9 | 22° 2 | 28° 1 | 22°22 | 0°R27 | 1°18 | 22°36 | n.a. | F 4 |
| S 5 | 22 45 45 | 9°25'43 | 16°45 | 5° 0 | 15°56 | 9° 6 | 18° 5 | 19°16 | 22° 5 | 28° 3 | 22°23 | 0°27 | 1°15 | 22°42 | n.a. | S 5 |
| S 6 | 22 49 42 | 10°24'58 | 29°59 | 5°52 | 17° 8 | 9°45 | 18°11 | 19°23 | 22° 9 | 28° 4 | 22°23 | 0°26 | 1°11 | 22°49 | n.a. | S 6 |
| M 7 | 22 53 39 | 11°24'15 | 13♋42 | 6°41 | 18°20 | 10°24 | 18°17 | 19°30 | 22°12 | 28° 6 | 22°24 | 0°24 | 1° 8 | 22°55 | n.a. | M 7 |
| T 8 | 22 57 35 | 12°23'35 | 27°52 | 7°27 | 19°32 | 11° 3 | 18°23 | 19°38 | 22°16 | 28° 8 | 22°24 | 0°22 | 1° 5 | 23° 2 | n.a. | T 8 |
| W 9 | 23 1 32 | 13°22'57 | 12♌27 | 8° 8 | 20°44 | 11°43 | 18°29 | 19°45 | 22°20 | 28°10 | 22°24 | 0°20 | 1° 2 | 23° 9 | n.a. | W 9 |
| T 10 | 23 5 28 | 14°22'21 | 27°23 | 8°45 | 21°56 | 12°22 | 18°35 | 19°52 | 22°23 | 28°11 | 22°25 | 0°18 | 0°59 | 23°15 | n.a. | T 10 |
| F 11 | 23 9 25 | 15°21'48 | 12♍33 | 9°17 | 23° 8 | 13° 2 | 18°40 | 19°59 | 22°27 | 28°13 | 22°25 | 0°16 | 0°56 | 23°22 | n.a. | F 11 |
| S 12 | 23 13 21 | 16°21'16 | 27°45 | 9°44 | 24°20 | 13°42 | 18°45 | 20° 7 | 22°30 | 28°15 | 22°26 | 0°D16 | 0°52 | 23°29 | n.a. | S 12 |
| S 13 | 23 17 18 | 17°20'47 | 12♎52 | 10° 5 | 25°31 | 14°22 | 18°51 | 20°14 | 22°34 | 28°16 | 22°26 | 0°16 | 0°49 | 23°35 | n.a. | S 13 |
| M14 | 23 21 14 | 18°20'20 | 27°44 | 10°21 | 26°43 | 15° 2 | 18°56 | 20°21 | 22°37 | 28°18 | 22°26 | 0°17 | 0°46 | 23°42 | n.a. | M14 |
| T 15 | 23 25 11 | 19°19'54 | 12♏14 | 10°29 | 27°55 | 15°43 | 19° 0 | 20°28 | 22°41 | 28°19 | 22°26 | 0°18 | 0°43 | 23°49 | n.a. | T 15 |
| W16 | 23 29 8 | 20°19'31 | 26°21 | 10°R30 | 29° 6 | 16°23 | 19° 5 | 20°36 | 22°44 | 28°21 | 22°27 | 0°19 | 0°40 | 23°55 | n.a. | W16 |
| T 17 | 23 33 4 | 21°19'09 | 10♐ 1 | 10°24 | 0♏18 | 17° 4 | 19° 9 | 20°43 | 22°48 | 28°22 | 22°27 | 0°19 | 0°36 | 24° 2 | n.a. | T 17 |
| F 18 | 23 37 1 | 22°18'49 | 23°16 | 10°10 | 1°30 | 17°45 | 19°14 | 20°50 | 22°51 | 28°24 | 22°27 | 0°R19 | 0°33 | 24° 9 | n.a. | F 18 |
| S 19 | 23 40 57 | 23°18'31 | 6♑ 9 | 9°47 | 2°41 | 18°26 | 19°18 | 20°57 | 22°55 | 28°25 | 22°27 | 0°19 | 0°30 | 24°15 | n.a. | S 19 |
| S 20 | 23 44 54 | 24°18'15 | 18°43 | 9°15 | 3°53 | 19° 7 | 19°22 | 21° 5 | 22°58 | 28°27 | 22°27 | 0°19 | 0°27 | 24°22 | n.a. | S 20 |
| M21 | 23 48 50 | 25°18'01 | 1♒ 2 | 8°35 | 5° 4 | 19°48 | 19°26 | 21°12 | 23° 1 | 28°28 | 22°28 | 0°18 | 0°24 | 24°29 | n.a. | M21 |
| T 22 | 23 52 47 | 26°17'48 | 13° 8 | 7°46 | 6°15 | 20°29 | 19°29 | 21°19 | 23° 5 | 28°30 | 22°28 | 0°17 | 0°21 | 24°35 | n.a. | T 22 |
| W23 | 23 56 43 | 27°17'38 | 25° 6 | 6°49 | 7°27 | 21°10 | 19°33 | 21°26 | 23° 8 | 28°31 | 22°28 | 0°17 | 0°17 | 24°42 | n.a. | W23 |
| T 24 | 0 0 40 | 28°17'29 | 6♓58 | 5°45 | 8°38 | 21°52 | 19°36 | 21°33 | 23°11 | 28°32 | 22°28 | 0°17 | 0°14 | 24°48 | n.a. | T 24 |
| F 25 | 0 4 36 | 29°17'22 | 18°46 | 4°35 | 9°49 | 22°33 | 19°39 | 21°41 | 23°15 | 28°33 | 22°28 | 0°17 | 0°11 | 24°55 | n.a. | F 25 |
| S 26 | 0 8 33 | 0♎17'17 | 0♈34 | 3°22 | 11° 0 | 23°15 | 19°42 | 21°48 | 23°18 | 28°35 | 22°R28 | 0°17 | 0° 8 | 25° 2 | n.a. | S 26 |
| S 27 | 0 12 30 | 1°17'14 | 12°23 | 2° 5 | 12°11 | 23°57 | 19°44 | 21°55 | 23°21 | 28°36 | 22°28 | 0°16 | 0° 5 | 25° 8 | n.a. | S 27 |
| M28 | 0 16 26 | 2°17'14 | 24°16 | 0°49 | 13°22 | 24°39 | 19°47 | 22° 2 | 23°24 | 28°37 | 22°28 | 0°16 | 0° 1 | 25°15 | n.a. | M28 |
| T 29 | 0 20 23 | 3°17'15 | 6♉14 | 29♍35 | 14°33 | 25°21 | 19°49 | 22° 9 | 23°27 | 28°38 | 22°28 | 0°16 | 29♍58 | 25°22 | n.a. | T 29 |
| W30 | 0 24 19 | 4♎17'18 | 18♉21 | 28♍26 | 15♏44 | 26♐ 3 | 19♊51 | 22♍17 | 23♌30 | 28♋40 | 22♊28 | 0♎16 | 29♍55 | 25♓28 | n.a. | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 9n36 | 8n23 | 2s23 | 2s35 | 2s22 | 4s38 | 0s12 | 24s18 | 2s42 | 22n48 | 0s19 | 6n32 | 2n15 | 15n 3 | 0n43 | 21n 3 | 0n15 | 22n56 | 0s33 | 0s 9 | 0s35 | 2s21 | | n.a. |
| W 2 | 9 14 | 11 36 | 3 18 | 3 7 | 2 29 | 5 10 | 0 16 | 24 24 | 2 41 | 22 49 | 0 19 | 6 30 | 2 15 | 15 2 | 0 43 | 21 2 | 0 15 | 22 56 | 0 33 | 0 10 | 0 34 | 2 19 | | n.a. |
| T 3 | 8 52 | 14 22 | 4 6 | 3 38 | 2 36 | 5 41 | 0 19 | 24 29 | 2 41 | 22 50 | 0 18 | 6 27 | 2 15 | 15 1 | 0 43 | 21 2 | 0 15 | 22 56 | 0 32 | 0 11 | 0 33 | 2 17 | | n.a. |
| F 4 | 8 30 | 16 32 | 4 43 | 4 7 | 2 43 | 6 12 | 0 22 | 24 35 | 2 40 | 22 51 | 0 18 | 6 24 | 2 15 | 15 0 | 0 43 | 21 2 | 0 15 | 22 56 | 0 32 | 0 11 | 0 31 | 2 15 | | n.a. |
| S 5 | 8 7 | 17 56 | 5 7 | 4 35 | 2 49 | 6 44 | 0 26 | 24 40 | 2 39 | 22 51 | 0 18 | 6 21 | 2 15 | 14 59 | 0 43 | 21 1 | 0 15 | 22 56 | 0 32 | 0 11 | 0 30 | 2 13 | | n.a. |
| S 6 | 7 45 | 18 26 | 5 16 | 5 2 | 2 55 | 7 15 | 0 29 | 24 46 | 2 38 | 22 52 | 0 18 | 6 18 | 2 15 | 14 57 | 0 43 | 21 1 | 0 15 | 22 56 | 0 32 | 0 10 | 0 29 | 2 12 | | n.a. |
| M 7 | 7 22 | 17 53 | 5 8 | 5 27 | 3 1 | 7 46 | 0 32 | 24 51 | 2 38 | 22 52 | 0 18 | 6 15 | 2 15 | 14 56 | 0 43 | 21 1 | 0 15 | 22 56 | 0 32 | 0 10 | 0 27 | 2 10 | | n.a. |
| T 8 | 6 59 | 16 14 | 4 41 | 5 49 | 3 6 | 8 17 | 0 36 | 24 56 | 2 37 | 22 53 | 0 18 | 6 12 | 2 15 | 14 55 | 0 43 | 21 0 | 0 15 | 22 57 | 0 32 | 0 9 | 0 26 | 2 8 | | n.a. |
| W 9 | 6 36 | 13 30 | 3 55 | 6 10 | 3 11 | 8 47 | 0 39 | 25 1 | 2 36 | 22 54 | 0 18 | 6 10 | 2 15 | 14 54 | 0 43 | 21 0 | 0 15 | 22 57 | 0 32 | 0 8 | 0 25 | 2 6 | | n.a. |
| T 10 | 6 13 | 9 49 | 2 52 | 6 29 | 3 15 | 9 18 | 0 43 | 25 5 | 2 35 | 22 54 | 0 18 | 6 7 | 2 15 | 14 53 | 0 43 | 21 0 | 0 15 | 22 57 | 0 32 | 0 7 | 0 24 | 2 4 | | n.a. |
| F 11 | 5 50 | 5 26 | 1 37 | 6 45 | 3 18 | 9 48 | 0 46 | 25 10 | 2 34 | 22 55 | 0 18 | 6 4 | 2 15 | 14 52 | 0 43 | 20 59 | 0 15 | 22 57 | 0 32 | 0 7 | 0 22 | 2 2 | | n.a. |
| S 12 | 5 26 | 0 41 | 0 14 | 6 58 | 3 21 | 10 18 | 0 50 | 25 14 | 2 34 | 22 55 | 0 18 | 6 1 | 2 15 | 14 50 | 0 43 | 20 59 | 0 15 | 22 57 | 0 32 | 0 6 | 0 21 | 2 0 | | n.a. |
| S 13 | 5 3 | 4s 4 | 1n 9 | 7 9 | 3 23 | 10 48 | 0 53 | 25 18 | 2 33 | 22 56 | 0 18 | 5 58 | 2 15 | 14 49 | 0 43 | 20 59 | 0 15 | 22 57 | 0 32 | 0 6 | 0 20 | 1 59 | | n.a. |
| M14 | 4 40 | 8 30 | 2 27 | 7 16 | 3 24 | 11 17 | 0 56 | 25 22 | 2 32 | 22 56 | 0 18 | 5 55 | 2 15 | 14 48 | 0 43 | 20 58 | 0 15 | 22 57 | 0 32 | 0 7 | 0 18 | 1 57 | | n.a. |
| T 15 | 4 16 | 12 18 | 3 33 | 7 19 | 3 24 | 11 47 | 1 0 | 25 26 | 2 31 | 22 57 | 0 18 | 5 52 | 2 15 | 14 47 | 0 43 | 20 58 | 0 15 | 22 57 | 0 32 | 0 7 | 0 17 | 1 55 | | n.a. |
| W16 | 3 52 | 15 16 | 4 24 | 7 18 | 3 23 | 12 16 | 1 3 | 25 29 | 2 30 | 22 57 | 0 18 | 5 49 | 2 15 | 14 46 | 0 43 | 20 58 | 0 15 | 22 57 | 0 32 | 0 7 | 0 16 | 1 53 | | n.a. |
| T 17 | 3 29 | 17 17 | 4 58 | 7 14 | 3 21 | 12 44 | 1 7 | 25 32 | 2 29 | 22 58 | 0 18 | 5 47 | 2 15 | 14 45 | 0 43 | 20 58 | 0 15 | 22 57 | 0 32 | 0 8 | 0 15 | 1 51 | | n.a. |
| F 18 | 3 5 | 18 16 | 5 15 | 7 4 | 3 17 | 13 13 | 1 10 | 25 35 | 2 28 | 22 58 | 0 17 | 5 44 | 2 15 | 14 44 | 0 43 | 20 57 | 0 15 | 22 57 | 0 32 | 0 8 | 0 13 | 1 49 | | n.a. |
| S 19 | 2 41 | 18 17 | 5 16 | 6 50 | 3 11 | 13 41 | 1 14 | 25 38 | 2 28 | 22 58 | 0 17 | 5 41 | 2 15 | 14 42 | 0 43 | 20 57 | 0 15 | 22 57 | 0 32 | 0 8 | 0 12 | 1 48 | | n.a. |
| S 20 | 2 17 | 17 24 | 5 2 | 6 31 | 3 4 | 14 9 | 1 17 | 25 41 | 2 27 | 22 59 | 0 17 | 5 38 | 2 15 | 14 41 | 0 43 | 20 57 | 0 15 | 22 57 | 0 32 | 0 7 | 0 11 | 1 46 | | n.a. |
| M21 | 1 53 | 15 42 | 4 33 | 6 7 | 2 55 | 14 37 | 1 20 | 25 43 | 2 26 | 22 59 | 0 17 | 5 35 | 2 15 | 14 40 | 0 43 | 20 56 | 0 15 | 22 57 | 0 32 | 0 7 | 0 10 | 1 44 | | n.a. |
| T 22 | 1 29 | 13 20 | 3 53 | 5 38 | 2 45 | 15 4 | 1 24 | 25 46 | 2 25 | 23 0 | 0 17 | 5 32 | 2 15 | 14 39 | 0 43 | 20 56 | 0 15 | 22 57 | 0 32 | 0 7 | 0 8 | 1 42 | | n.a. |
| W23 | 1 5 | 10 25 | 3 4 | 5 3 | 2 32 | 15 31 | 1 27 | 25 48 | 2 24 | 23 0 | 0 17 | 5 29 | 2 15 | 14 38 | 0 43 | 20 56 | 0 15 | 22 57 | 0 31 | 0 7 | 0 7 | 1 40 | | n.a. |
| T 24 | 0 41 | 7 6 | 2 6 | 4 25 | 2 17 | 15 57 | 1 30 | 25 50 | 2 23 | 23 0 | 0 17 | 5 27 | 2 15 | 14 37 | 0 43 | 20 56 | 0 15 | 22 58 | 0 31 | 0 7 | 0 6 | 1 38 | | n.a. |
| F 25 | 0 17 | 3 31 | 1 4 | 3 42 | 2 1 | 16 23 | 1 34 | 25 51 | 2 22 | 23 0 | 0 17 | 5 24 | 2 15 | 14 36 | 0 43 | 20 55 | 0 15 | 22 58 | 0 31 | 0 7 | 0 4 | 1 36 | | n.a. |
| S 26 | 0s 7 | 0n12 | 0s 2 | 2 56 | 1 43 | 16 49 | 1 37 | 25 52 | 2 21 | 23 1 | 0 17 | 5 21 | 2 15 | 14 35 | 0 43 | 20 55 | 0 15 | 22 58 | 0 31 | 0 7 | 0 3 | 1 35 | | n.a. |
| S 27 | 0 31 | 3 55 | 1 7 | 2 7 | 1 24 | 17 15 | 1 40 | 25 54 | 2 20 | 23 1 | 0 17 | 5 18 | 2 15 | 14 34 | 0 43 | 20 55 | 0 15 | 22 58 | 0 31 | 0 7 | 0 2 | 1 33 | | n.a. |
| M28 | 0 55 | 7 30 | 2 10 | 1 19 | 1 4 | 17 39 | 1 43 | 25 55 | 2 19 | 23 1 | 0 17 | 5 15 | 2 15 | 14 33 | 0 44 | 20 55 | 0 15 | 22 58 | 0 31 | 0 7 | 0 1 | 1 31 | | n.a. |
| T 29 | 1 19 | 10 48 | 3 7 | 0 30 | 0 44 | 18 4 | 1 46 | 25 55 | 2 18 | 23 2 | 0 17 | 5 13 | 2 15 | 14 32 | 0 44 | 20 54 | 0 15 | 22 58 | 0 31 | 0 6 | 0n 1 | 1 29 | | n.a. |
| W30 | 1s43 | 13n41 | 3s57 | 0n17 | 0s23 | 18s28 | 1s49 | 25s56 | 2s17 | 23n 2 | 0s17 | 5n10 | 2n15 | 14n31 | 0n44 | 20n54 | 0n15 | 22n58 | 0s31 | 0s 6 | 0n 2 | 1s27 | | n.a. |

Julian Day Number = 1702673.5, Delta T = 03h04m46s
Ecliptic obliquity = 23°41'56, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°46'20, Lahiri = - 4°39'19 Julian Calendar 1 Sept. 52 BCE == Greg. Calendar 30 Aug. 052 BCE

The year -51 astronomical counting style corresponds to year 052 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 52 BCE
# geocentric

## OCTOBER 52 BCE (-51) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 28 16 | 5♎17'24 | 0♊38 | 27°R24 | 16♏54 | 26♐45 | 19♊53 | 22♍24 | 23♌33 | 28♋41 | 22°R27 | 0°R15 | 29♍52 | 25♓35 | n.a. | T 1 |
| F 2 | 0 32 12 | 6°17'32 | 13°10 | 26♍30 | 18° 5 | 27°27 | 19°55 | 22°31 | 23°36 | 28°42 | 22♊27 | 0♎14 | 29°49 | 25°42 | n.a. | F 2 |
| S 3 | 0 36 9 | 7°17'42 | 25°59 | 25°46 | 19°16 | 28° 9 | 19°56 | 22°38 | 23°39 | 28°43 | 22°27 | 0°14 | 29°46 | 25°48 | n.a. | S 3 |
| S 4 | 0 40 5 | 8°17'54 | 9♋ 8 | 25°14 | 20°26 | 28°51 | 19°57 | 22°45 | 23°42 | 28°44 | 22°27 | 0°D14 | 29°42 | 25°55 | n.a. | S 4 |
| M 5 | 0 44 2 | 9°18'09 | 22°40 | 24°53 | 21°37 | 29°34 | 19°59 | 22°52 | 23°45 | 28°45 | 22°27 | 0°14 | 29°39 | 26° 2 | n.a. | M 5 |
| T 6 | 0 47 59 | 10°18'25 | 6♌36 | 24°D43 | 22°47 | 0♑16 | 19°59 | 22°59 | 23°48 | 28°46 | 22°27 | 0°15 | 29°36 | 26° 8 | n.a. | T 6 |
| W 7 | 0 51 55 | 11°18'44 | 20°56 | 24°45 | 23°57 | 0°59 | 20° 0 | 23° 6 | 23°51 | 28°47 | 22°26 | 0°16 | 29°33 | 26°15 | n.a. | W 7 |
| T 8 | 0 55 52 | 12°19'05 | 5♍38 | 24°57 | 25° 8 | 1°42 | 20° 1 | 23°13 | 23°54 | 28°48 | 22°26 | 0°16 | 29°30 | 26°21 | n.a. | T 8 |
| F 9 | 0 59 48 | 13°19'28 | 20°37 | 25°20 | 26°18 | 2°24 | 20° 1 | 23°20 | 23°57 | 28°49 | 22°26 | 0°17 | 29°27 | 26°28 | n.a. | F 9 |
| S 10 | 1 3 45 | 14°19'52 | 5♎45 | 25°53 | 27°28 | 3° 7 | 20°R 1 | 23°27 | 23°59 | 28°49 | 22°25 | 0°R17 | 29°23 | 26°35 | n.a. | S 10 |
| S 11 | 1 7 41 | 15°20'19 | 20°54 | 26°34 | 28°38 | 3°50 | 20° 1 | 23°34 | 24° 2 | 28°50 | 22°25 | 0°17 | 29°20 | 26°41 | n.a. | S 11 |
| M12 | 1 11 38 | 16°20'47 | 5♏54 | 27°23 | 29°48 | 4°33 | 20° 1 | 23°41 | 24° 5 | 28°51 | 22°25 | 0°15 | 29°17 | 26°48 | n.a. | M12 |
| T 13 | 1 15 34 | 17°21'17 | 20°36 | 28°18 | 0♐58 | 5°16 | 20° 0 | 23°48 | 24° 7 | 28°52 | 22°24 | 0°13 | 29°14 | 26°55 | n.a. | T 13 |
| W14 | 1 19 31 | 18°21'49 | 4♐54 | 29°19 | 2° 7 | 5°59 | 19°59 | 23°55 | 24°10 | 28°52 | 22°24 | 0°10 | 29°11 | 27° 1 | n.a. | W14 |
| T 15 | 1 23 28 | 19°22'22 | 18°46 | 0♎26 | 3°17 | 6°42 | 19°59 | 24° 2 | 24°13 | 28°53 | 22°23 | 0° 8 | 29° 7 | 27° 8 | n.a. | T 15 |
| F 16 | 1 27 24 | 20°22'56 | 2♑ 9 | 1°37 | 4°26 | 7°25 | 19°58 | 24° 8 | 24°15 | 28°54 | 22°23 | 0° 6 | 29° 4 | 27°15 | n.a. | F 16 |
| S 17 | 1 31 21 | 21°23'32 | 15° 6 | 2°52 | 5°36 | 8° 9 | 19°56 | 24°15 | 24°18 | 28°54 | 22°22 | 0° 5 | 29° 1 | 27°21 | n.a. | S 17 |
| S 18 | 1 35 17 | 22°24'09 | 27°41 | 4°10 | 6°45 | 8°52 | 19°55 | 24°22 | 24°20 | 28°55 | 22°22 | 0°D 5 | 28°58 | 27°28 | n.a. | S 18 |
| M19 | 1 39 14 | 23°24'47 | 9♒57 | 5°31 | 7°54 | 9°35 | 19°53 | 24°28 | 24°22 | 28°56 | 22°21 | 0° 6 | 28°55 | 27°35 | n.a. | M19 |
| T 20 | 1 43 10 | 24°25'27 | 21°58 | 6°54 | 9° 3 | 10°19 | 19°51 | 24°35 | 24°25 | 28°56 | 22°21 | 0° 8 | 28°52 | 27°41 | n.a. | T 20 |
| W21 | 1 47 7 | 25°26'08 | 3♓51 | 8°19 | 10°12 | 11° 2 | 19°49 | 24°42 | 24°27 | 28°57 | 22°20 | 0° 9 | 28°48 | 27°48 | n.a. | W21 |
| T 22 | 1 51 3 | 26°26'50 | 15°39 | 9°46 | 11°21 | 11°46 | 19°47 | 24°48 | 24°29 | 28°57 | 22°19 | 0°11 | 28°45 | 27°55 | n.a. | T 22 |
| F 23 | 1 55 0 | 27°27'33 | 27°26 | 11°14 | 12°30 | 12°29 | 19°44 | 24°55 | 24°31 | 28°57 | 22°19 | 0°R12 | 28°42 | 28° 1 | n.a. | F 23 |
| S 24 | 1 58 56 | 28°28'18 | 9♈15 | 12°44 | 13°38 | 13°13 | 19°42 | 25° 1 | 24°34 | 28°58 | 22°18 | 0°12 | 28°39 | 28° 8 | n.a. | S 24 |
| S 25 | 2 2 53 | 29°29'04 | 21° 9 | 14°14 | 14°46 | 13°56 | 19°39 | 25° 8 | 24°36 | 28°58 | 22°17 | 0°10 | 28°36 | 28°14 | n.a. | S 25 |
| M26 | 2 6 50 | 0♏29'51 | 3♉11 | 15°45 | 15°55 | 14°40 | 19°36 | 25°14 | 24°38 | 28°58 | 22°17 | 0° 6 | 28°32 | 28°21 | n.a. | M26 |
| T 27 | 2 10 46 | 1°30'40 | 15°21 | 17°17 | 17° 3 | 15°24 | 19°32 | 25°20 | 24°40 | 28°59 | 22°16 | 0° 2 | 28°29 | 28°28 | n.a. | T 27 |
| W28 | 2 14 43 | 2°31'31 | 27°42 | 18°49 | 18°11 | 16° 7 | 19°29 | 25°27 | 24°42 | 28°59 | 22°15 | 29♍56 | 28°26 | 28°34 | n.a. | W28 |
| T 29 | 2 18 39 | 3°32'22 | 10♊13 | 20°21 | 19°18 | 16°51 | 19°25 | 25°33 | 24°44 | 28°59 | 22°14 | 29°50 | 28°23 | 28°41 | n.a. | T 29 |
| F 30 | 2 22 36 | 4°33'15 | 22°57 | 21°54 | 20°26 | 17°35 | 19°22 | 25°39 | 24°46 | 28°59 | 22°14 | 29°44 | 28°20 | 28°48 | n.a. | F 30 |
| S 31 | 2 26 32 | 5♏34'10 | 5♋55 | 23♎27 | 21♐33 | 18♑19 | 19♊18 | 25♍45 | 24♌47 | 28♋59 | 22♊13 | 29♍39 | 28♍17 | 28♓54 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 2s 7 | 16n 0 | 4s37 | 1n 0 | 0s 3 | 18s52 | 1s52 | 25s56 | 2s16 | 23n 2 | 0s16 | 5n 7 | 2n15 | 14n30 | 0n44 | 20n54 | 0n15 | 22n58 | 0s31 | 0s 6 | 0n 3 | 1s25 | | | n.a. |
| F 2 | 2 31 | 17 36 | 5 4 | 1 40 | 0n17 | 19 15 | 1 55 | 25 56 | 2 15 | 23 2 | 0 16 | 5 4 | 2 15 | 14 29 | 0 44 | 20 54 | 0 16 | 22 58 | 0 31 | 0 6 | 0 5 | 1 23 | | | n.a. |
| S 3 | 2 56 | 18 21 | 5 17 | 2 14 | 0 35 | 19 38 | 1 58 | 25 56 | 2 14 | 23 2 | 0 16 | 5 1 | 2 15 | 14 28 | 0 44 | 20 54 | 0 16 | 22 58 | 0 31 | 0 6 | 0 6 | 1 22 | | | n.a. |
| S 4 | 3 20 | 18 10 | 5 14 | 2 43 | 0 53 | 20 0 | 2 1 | 25 55 | 2 13 | 23 3 | 0 16 | 4 59 | 2 16 | 14 27 | 0 44 | 20 53 | 0 16 | 22 58 | 0 31 | 0 6 | 0 7 | 1 20 | | | n.a. |
| M 5 | 3 44 | 16 56 | 4 54 | 3 6 | 1 8 | 20 22 | 2 4 | 25 54 | 2 12 | 23 3 | 0 16 | 4 56 | 2 16 | 14 26 | 0 44 | 20 53 | 0 16 | 22 58 | 0 31 | 0 6 | 0 8 | 1 18 | | | n.a. |
| T 6 | 4 7 | 14 41 | 4 16 | 3 22 | 1 22 | 20 43 | 2 7 | 25 53 | 2 11 | 23 3 | 0 16 | 4 53 | 2 16 | 14 25 | 0 44 | 20 53 | 0 16 | 22 58 | 0 31 | 0 6 | 0 10 | 1 16 | | | n.a. |
| W 7 | 4 31 | 11 29 | 3 22 | 3 33 | 1 34 | 21 3 | 2 10 | 25 52 | 2 10 | 23 3 | 0 16 | 4 50 | 2 16 | 14 24 | 0 44 | 20 53 | 0 16 | 22 58 | 0 31 | 0 6 | 0 11 | 1 14 | | | n.a. |
| T 8 | 4 55 | 7 29 | 2 13 | 3 37 | 1 45 | 21 24 | 2 12 | 25 51 | 2 9 | 23 3 | 0 16 | 4 48 | 2 16 | 14 23 | 0 44 | 20 53 | 0 16 | 22 58 | 0 31 | 0 7 | 0 12 | 1 12 | | | n.a. |
| F 9 | 5 19 | 2 56 | 0 53 | 3 36 | 1 53 | 21 43 | 2 15 | 25 49 | 2 8 | 23 3 | 0 16 | 4 45 | 2 16 | 14 22 | 0 44 | 20 53 | 0 16 | 22 58 | 0 31 | 0 7 | 0 13 | 1 10 | | | n.a. |
| S 10 | 5 43 | 1s51 | 0n30 | 3 29 | 2 0 | 22 2 | 2 18 | 25 47 | 2 7 | 23 3 | 0 16 | 4 42 | 2 16 | 14 21 | 0 44 | 20 52 | 0 16 | 22 58 | 0 31 | 0 7 | 0 15 | 1 9 | | | n.a. |
| S 11 | 6 6 | 6 31 | 1 52 | 3 18 | 2 6 | 22 21 | 2 20 | 25 45 | 2 6 | 23 3 | 0 16 | 4 40 | 2 16 | 14 21 | 0 44 | 20 52 | 0 16 | 22 58 | 0 31 | 0 7 | 0 16 | 1 7 | | | n.a. |
| M12 | 6 30 | 10 43 | 3 5 | 3 2 | 2 10 | 22 39 | 2 23 | 25 42 | 2 5 | 23 4 | 0 16 | 4 37 | 2 16 | 14 20 | 0 44 | 20 52 | 0 16 | 22 58 | 0 31 | 0 6 | 0 17 | 1 5 | | | n.a. |
| T 13 | 6 53 | 14 10 | 4 4 | 2 43 | 2 13 | 22 56 | 2 25 | 25 40 | 2 4 | 23 4 | 0 15 | 4 34 | 2 16 | 14 19 | 0 44 | 20 52 | 0 16 | 22 58 | 0 30 | 0 5 | 0 19 | 1 3 | | | n.a. |
| W14 | 7 16 | 16 39 | 4 46 | 2 20 | 2 15 | 23 13 | 2 27 | 25 37 | 2 3 | 23 4 | 0 15 | 4 32 | 2 16 | 14 18 | 0 44 | 20 52 | 0 16 | 22 58 | 0 30 | 0 4 | 0 20 | 1 1 | | | n.a. |
| T 15 | 7 40 | 18 4 | 5 10 | 1 54 | 2 15 | 23 29 | 2 29 | 25 34 | 2 2 | 23 4 | 0 15 | 4 29 | 2 17 | 14 17 | 0 44 | 20 52 | 0 16 | 22 58 | 0 30 | 0 3 | 0 21 | 0 59 | | | n.a. |
| F 16 | 8 3 | 18 25 | 5 16 | 1 25 | 2 15 | 23 44 | 2 31 | 25 30 | 2 1 | 23 4 | 0 15 | 4 26 | 2 17 | 14 16 | 0 44 | 20 52 | 0 16 | 22 58 | 0 30 | 0 2 | 0 22 | 0 57 | | | n.a. |
| S 17 | 8 26 | 17 46 | 5 5 | 0 54 | 2 14 | 23 59 | 2 33 | 25 27 | 2 0 | 23 4 | 0 15 | 4 24 | 2 17 | 14 16 | 0 44 | 20 52 | 0 16 | 22 58 | 0 30 | 0 2 | 0 24 | 0 56 | | | n.a. |
| S 18 | 8 49 | 16 16 | 4 40 | 0 20 | 2 12 | 24 13 | 2 35 | 25 23 | 1 59 | 23 4 | 0 15 | 4 21 | 2 17 | 14 15 | 0 44 | 20 51 | 0 16 | 22 58 | 0 30 | 0 2 | 0 25 | 0 54 | | | n.a. |
| M19 | 9 11 | 14 3 | 4 3 | 0s14 | 2 9 | 24 27 | 2 37 | 25 19 | 1 58 | 23 4 | 0 15 | 4 19 | 2 17 | 14 14 | 0 44 | 20 51 | 0 16 | 22 58 | 0 30 | 0 2 | 0 26 | 0 52 | | | n.a. |
| T 20 | 9 34 | 11 15 | 3 16 | 0 51 | 2 6 | 24 40 | 2 39 | 25 14 | 1 57 | 23 4 | 0 15 | 4 16 | 2 17 | 14 13 | 0 44 | 20 51 | 0 16 | 22 58 | 0 30 | 0 3 | 0 28 | 0 50 | | | n.a. |
| W21 | 9 56 | 8 2 | 2 20 | 1 28 | 2 2 | 24 52 | 2 41 | 25 10 | 1 56 | 23 4 | 0 15 | 4 14 | 2 17 | 14 13 | 0 44 | 20 51 | 0 16 | 22 58 | 0 30 | 0 4 | 0 29 | 0 48 | | | n.a. |
| T 22 | 10 19 | 4 30 | 1 19 | 2 6 | 1 58 | 25 4 | 2 42 | 25 5 | 1 55 | 23 3 | 0 15 | 4 11 | 2 17 | 14 12 | 0 44 | 20 51 | 0 16 | 22 58 | 0 30 | 0 4 | 0 30 | 0 46 | | | n.a. |
| F 23 | 10 41 | 0 48 | 0 15 | 2 45 | 1 53 | 25 15 | 2 44 | 25 0 | 1 54 | 23 3 | 0 15 | 4 9 | 2 18 | 14 11 | 0 44 | 20 51 | 0 16 | 22 58 | 0 30 | 0 5 | 0 31 | 0 44 | | | n.a. |
| S 24 | 11 3 | 2n57 | 0s50 | 3 25 | 1 48 | 25 25 | 2 45 | 24 54 | 1 53 | 23 3 | 0 14 | 4 6 | 2 18 | 14 10 | 0 44 | 20 51 | 0 16 | 22 58 | 0 30 | 0 5 | 0 33 | 0 43 | | | n.a. |
| S 25 | 11 25 | 6 36 | 1 53 | 4 6 | 1 43 | 25 34 | 2 46 | 24 49 | 1 52 | 23 3 | 0 14 | 4 4 | 2 18 | 14 10 | 0 44 | 20 51 | 0 16 | 22 59 | 0 30 | 0 4 | 0 34 | 0 41 | | | n.a. |
| M26 | 11 46 | 10 2 | 2 51 | 4 46 | 1 37 | 25 43 | 2 48 | 24 43 | 1 51 | 23 3 | 0 14 | 4 1 | 2 18 | 14 9 | 0 44 | 20 51 | 0 16 | 22 59 | 0 30 | 0 3 | 0 35 | 0 39 | | | n.a. |
| T 27 | 12 8 | 13 4 | 3 43 | 5 27 | 1 32 | 25 51 | 2 49 | 24 37 | 1 50 | 23 3 | 0 14 | 3 59 | 2 18 | 14 8 | 0 44 | 20 51 | 0 16 | 22 59 | 0 30 | 0 1 | 0 36 | 0 37 | | | n.a. |
| W28 | 12 29 | 15 34 | 4 24 | 6 8 | 1 25 | 25 59 | 2 50 | 24 31 | 1 49 | 23 3 | 0 14 | 3 56 | 2 18 | 14 8 | 0 45 | 20 51 | 0 16 | 22 59 | 0 30 | 0n 2 | 0 38 | 0 35 | | | n.a. |
| T 29 | 12 50 | 17 23 | 4 54 | 6 49 | 1 19 | 26 6 | 2 50 | 24 24 | 1 47 | 23 2 | 0 14 | 3 54 | 2 18 | 14 7 | 0 45 | 20 51 | 0 16 | 22 59 | 0 30 | 0 4 | 0 39 | 0 33 | | | n.a. |
| F 30 | 13 11 | 18 21 | 5 9 | 7 30 | 1 13 | 26 12 | 2 51 | 24 17 | 1 46 | 23 2 | 0 14 | 3 52 | 2 19 | 14 7 | 0 45 | 20 51 | 0 16 | 22 59 | 0 30 | 0 6 | 0 40 | 0 31 | | | n.a. |
| S 31 | 13s31 | 18n24 | 5s10 | 8s11 | 1n 6 | 26s17 | 2s52 | 24s10 | 1s45 | 23n 2 | 0s14 | 3n49 | 2n19 | 14n 6 | 0n45 | 20n51 | 0n16 | 22n59 | 0s30 | 0n 8 | 0n42 | 0s30 | | | n.a. |

Julian Day Number = 1702703.5, Delta T = 03h04m45s
Ecliptic obliquity = 23°41'56, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°46'16, Lahiri = - 4°39'15 Julian Calendar 1 Oct. 52 BCE == Greg. Calendar 29 Sept. 052 BCE

The year -51 astronomical counting style corresponds to year 052 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 52 BCE
# geocentric

## NOVEMBER 52 BCE (-51) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 30 29 | 6♏35'06 | 19♋ 6 | 25♎ 1 | 22♐40 | 19♑ 2 | 19°R13 | 25♍51 | 24♌49 | 29♋ 0 | 22°R12 | 29°R36 | 28♍13 | 29♓ 1 | n.a. | S 1 |
| M 2 | 2 34 25 | 7°36'04 | 2♌34 | 26°34 | 23°47 | 19°46 | 19♊ 9 | 25°57 | 24°51 | 29° 0 | 22♊11 | 29°D35 | 28°10 | 29° 8 | n.a. | M 2 |
| T 3 | 2 38 22 | 8°37'03 | 16°20 | 28° 8 | 24°54 | 20°30 | 19° 4 | 26° 3 | 24°53 | 29°R 0 | 22°10 | 29♍35 | 28° 7 | 29°14 | n.a. | T 3 |
| W 4 | 2 42 19 | 9°38'03 | 0♍23 | 29°41 | 26° 1 | 21°14 | 19° 0 | 26° 9 | 24°54 | 29° 0 | 22° 9 | 29°36 | 28° 4 | 29°21 | n.a. | W 4 |
| T 5 | 2 46 15 | 10°39'04 | 14°44 | 1♏15 | 27° 7 | 21°58 | 18°55 | 26°15 | 24°56 | 29° 0 | 22° 9 | 29°37 | 28° 1 | 29°28 | n.a. | T 5 |
| F 6 | 2 50 12 | 11°40'07 | 29°20 | 2°49 | 28°14 | 22°42 | 18°50 | 26°21 | 24°57 | 29° 0 | 22° 8 | 29°R38 | 27°58 | 29°34 | n.a. | F 6 |
| S 7 | 2 54 8 | 12°41'11 | 14♎ 8 | 4°22 | 29°20 | 23°26 | 18°45 | 26°27 | 24°59 | 28°59 | 22° 7 | 29°37 | 27°54 | 29°41 | n.a. | S 7 |
| S 8 | 2 58 5 | 13°42'17 | 29° 0 | 5°56 | 0♑25 | 24°10 | 18°39 | 26°32 | 25° 0 | 28°59 | 22° 6 | 29°34 | 27°51 | 29°47 | n.a. | S 8 |
| M 9 | 3 2 1 | 14°43'23 | 13♏50 | 7°30 | 1°31 | 24°54 | 18°34 | 26°38 | 25° 2 | 28°59 | 22° 5 | 29°29 | 27°48 | 29°54 | n.a. | M 9 |
| T 10 | 3 5 58 | 15°44'30 | 28°29 | 9° 4 | 2°36 | 25°38 | 18°28 | 26°44 | 25° 3 | 28°59 | 22° 4 | 29°22 | 27°45 | 0♈ 1 | n.a. | T 10 |
| W11 | 3 9 54 | 16°45'38 | 12♐49 | 10°38 | 3°41 | 26°22 | 18°22 | 26°49 | 25° 4 | 28°59 | 22° 3 | 29°14 | 27°42 | 0° 7 | n.a. | W11 |
| T 12 | 3 13 51 | 17°46'47 | 26°46 | 12°11 | 4°46 | 27° 6 | 18°16 | 26°55 | 25° 5 | 28°58 | 22° 2 | 29° 6 | 27°38 | 0°14 | n.a. | T 12 |
| F 13 | 3 17 48 | 18°47'56 | 10♑15 | 13°45 | 5°51 | 27°50 | 18°10 | 27° 0 | 25° 6 | 28°58 | 22° 1 | 28°58 | 27°35 | 0°21 | n.a. | F 13 |
| S 14 | 3 21 44 | 19°49'06 | 23°18 | 15°19 | 6°55 | 28°34 | 18° 4 | 27° 5 | 25° 8 | 28°58 | 22° 0 | 28°53 | 27°32 | 0°27 | n.a. | S 14 |
| S 15 | 3 25 41 | 20°50'16 | 5♒57 | 16°53 | 7°59 | 29°19 | 17°57 | 27°11 | 25° 9 | 28°57 | 21°59 | 28°49 | 27°29 | 0°34 | n.a. | S 15 |
| M16 | 3 29 37 | 21°51'27 | 18°15 | 18°28 | 9° 3 | 0♒ 3 | 17°51 | 27°16 | 25°10 | 28°57 | 21°58 | 28°D48 | 27°26 | 0°41 | n.a. | M16 |
| T 17 | 3 33 34 | 22°52'38 | 0♓17 | 20° 2 | 10° 6 | 0°47 | 17°44 | 27°21 | 25°10 | 28°57 | 21°57 | 28°48 | 27°23 | 0°47 | n.a. | T 17 |
| W18 | 3 37 30 | 23°53'49 | 12° 9 | 21°36 | 11° 9 | 1°31 | 17°37 | 27°26 | 25°11 | 28°56 | 21°55 | 28°49 | 27°19 | 0°54 | n.a. | W18 |
| T 19 | 3 41 27 | 24°55'00 | 23°56 | 23°11 | 12°12 | 2°15 | 17°30 | 27°31 | 25°12 | 28°56 | 21°54 | 28°R50 | 27°16 | 1° 1 | n.a. | T 19 |
| F 20 | 3 45 24 | 25°56'12 | 5♈44 | 24°45 | 13°14 | 2°59 | 17°23 | 27°36 | 25°13 | 28°55 | 21°53 | 28°50 | 27°13 | 1° 7 | n.a. | F 20 |
| S 21 | 3 49 20 | 26°57'24 | 17°35 | 26°20 | 14°16 | 3°43 | 17°16 | 27°41 | 25°14 | 28°54 | 21°52 | 28°48 | 27°10 | 1°14 | n.a. | S 21 |
| S 22 | 3 53 17 | 27°58'36 | 29°36 | 27°55 | 15°18 | 4°27 | 17° 9 | 27°45 | 25°14 | 28°54 | 21°51 | 28°43 | 27° 7 | 1°20 | n.a. | S 22 |
| M23 | 3 57 13 | 28°59'49 | 11♉48 | 29°30 | 16°19 | 5°12 | 17° 1 | 27°50 | 25°15 | 28°53 | 21°50 | 28°36 | 27° 4 | 1°27 | n.a. | M23 |
| T 24 | 4 1 10 | 0♐ 1'01 | 24°12 | 1♐ 6 | 17°20 | 5°56 | 16°54 | 27°55 | 25°15 | 28°53 | 21°49 | 28°27 | 27° 0 | 1°34 | n.a. | T 24 |
| W25 | 4 5 6 | 1° 2'15 | 6♊51 | 2°41 | 18°20 | 6°40 | 16°47 | 27°59 | 25°16 | 28°52 | 21°47 | 28°15 | 26°57 | 1°40 | n.a. | W25 |
| T 26 | 4 9 3 | 2° 3'28 | 19°43 | 4°17 | 19°20 | 7°24 | 16°39 | 28° 4 | 25°16 | 28°51 | 21°46 | 28° 3 | 26°54 | 1°47 | n.a. | T 26 |
| F 27 | 4 12 59 | 3° 4'42 | 2♋48 | 5°53 | 20°20 | 8° 8 | 16°31 | 28° 8 | 25°17 | 28°50 | 21°45 | 27°52 | 26°51 | 1°54 | n.a. | F 27 |
| S 28 | 4 16 56 | 4° 5'56 | 16° 5 | 7°29 | 21°19 | 8°52 | 16°24 | 28°12 | 25°17 | 28°50 | 21°44 | 27°42 | 26°48 | 2° 0 | n.a. | S 28 |
| S 29 | 4 20 53 | 5° 7'10 | 29°32 | 9° 6 | 22°17 | 9°36 | 16°16 | 28°16 | 25°17 | 28°49 | 21°43 | 27°34 | 26°44 | 2° 7 | n.a. | S 29 |
| M30 | 4 24 49 | 6♐ 8'25 | 13♌ 9 | 10♐43 | 23♑15 | 10♒21 | 16♊ 8 | 28♍21 | 25♌17 | 28♋48 | 21♊41 | 27♍29 | 26♍41 | 2♈14 | n.a. | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 13s52 | 17n28 | 4s54 | 8s52 | 1n 0 | 26s22 | 2s52 | 24s 3 | 1s44 | 23n 2 | 0s14 | 3n47 | 2n19 | 14n 5 | 0n45 | 20n51 | 0n16 | 22n59 | 0s29 | 0n10 | 0n43 | 0s28 | | n.a. |
| M 2 | 14 12 | 15 33 | 4 22 | 9 32 | 0 53 | 26 26 | 2 53 | 23 56 | 1 43 | 23 2 | 0 13 | 3 45 | 2 19 | 14 5 | 0 45 | 20 51 | 0 16 | 22 59 | 0 29 | 0 10 | 0 44 | 0 26 | | n.a. |
| T 3 | 14 32 | 12 43 | 3 34 | 10 12 | 0 46 | 26 29 | 2 53 | 23 48 | 1 42 | 23 1 | 0 13 | 3 43 | 2 19 | 14 4 | 0 45 | 20 51 | 0 16 | 22 59 | 0 29 | 0 10 | 0 45 | 0 24 | | n.a. |
| W 4 | 14 51 | 9 5 | 2 32 | 10 52 | 0 39 | 26 31 | 2 53 | 23 40 | 1 41 | 23 1 | 0 13 | 3 40 | 2 19 | 14 4 | 0 45 | 20 51 | 0 16 | 22 59 | 0 29 | 0 10 | 0 47 | 0 22 | | n.a. |
| T 5 | 15 11 | 4 51 | 1 20 | 11 31 | 0 33 | 26 33 | 2 53 | 23 32 | 1 40 | 23 1 | 0 13 | 3 38 | 2 20 | 14 3 | 0 45 | 20 51 | 0 16 | 22 59 | 0 29 | 0 9 | 0 48 | 0 20 | | n.a. |
| F 6 | 15 30 | 0 14 | 0 2 | 12 10 | 0 26 | 26 34 | 2 53 | 23 23 | 1 39 | 23 0 | 0 13 | 3 36 | 2 20 | 14 3 | 0 45 | 20 51 | 0 16 | 22 59 | 0 29 | 0 9 | 0 49 | 0 18 | | n.a. |
| S 7 | 15 49 | 4s26 | 1n18 | 12 49 | 0 19 | 26 34 | 2 52 | 23 15 | 1 38 | 23 0 | 0 13 | 3 34 | 2 20 | 14 2 | 0 45 | 20 51 | 0 16 | 22 59 | 0 29 | 0 9 | 0 50 | 0 16 | | n.a. |
| S 8 | 16 7 | 8 52 | 2 32 | 13 27 | 0 12 | 26 34 | 2 52 | 23 6 | 1 37 | 23 0 | 0 13 | 3 32 | 2 20 | 14 2 | 0 45 | 20 51 | 0 16 | 22 59 | 0 29 | 0 10 | 0 52 | 0 15 | | n.a. |
| M 9 | 16 26 | 12 43 | 3 36 | 14 5 | 0 5 | 26 33 | 2 51 | 22 57 | 1 36 | 22 59 | 0 13 | 3 30 | 2 20 | 14 2 | 0 45 | 20 51 | 0 16 | 22 59 | 0 29 | 0 13 | 0 53 | 0 13 | | n.a. |
| T 10 | 16 44 | 15 44 | 4 25 | 14 41 | 0s 1 | 26 31 | 2 51 | 22 48 | 1 35 | 22 59 | 0 13 | 3 28 | 2 21 | 14 1 | 0 45 | 20 51 | 0 16 | 22 59 | 0 29 | 0 15 | 0 54 | 0 11 | | n.a. |
| W11 | 17 2 | 17 42 | 4 56 | 15 18 | 0 8 | 26 29 | 2 50 | 22 38 | 1 33 | 22 59 | 0 12 | 3 26 | 2 21 | 14 1 | 0 45 | 20 51 | 0 16 | 22 59 | 0 29 | 0 19 | 0 56 | 0 9 | | n.a. |
| T 12 | 17 19 | 18 32 | 5 8 | 15 53 | 0 15 | 26 25 | 2 49 | 22 28 | 1 32 | 22 58 | 0 12 | 3 24 | 2 21 | 14 0 | 0 45 | 20 51 | 0 16 | 22 59 | 0 29 | 0 22 | 0 57 | 0 7 | | n.a. |
| F 13 | 17 36 | 18 17 | 5 2 | 16 28 | 0 21 | 26 22 | 2 48 | 22 19 | 1 31 | 22 58 | 0 12 | 3 22 | 2 21 | 14 0 | 0 45 | 20 51 | 0 16 | 22 59 | 0 29 | 0 25 | 0 58 | 0 5 | | n.a. |
| S 14 | 17 53 | 17 3 | 4 41 | 17 3 | 0 27 | 26 17 | 2 46 | 22 8 | 1 30 | 22 57 | 0 12 | 3 20 | 2 21 | 14 0 | 0 45 | 20 51 | 0 16 | 22 59 | 0 29 | 0 27 | 0 59 | 0 3 | | n.a. |
| S 15 | 18 9 | 15 1 | 4 6 | 17 36 | 0 34 | 26 12 | 2 45 | 21 58 | 1 29 | 22 57 | 0 12 | 3 18 | 2 22 | 13 59 | 0 45 | 20 51 | 0 16 | 22 59 | 0 29 | 0 28 | 1 1 | 0 2 | | n.a. |
| M16 | 18 26 | 12 20 | 3 21 | 18 9 | 0 40 | 26 6 | 2 43 | 21 48 | 1 28 | 22 56 | 0 12 | 3 16 | 2 22 | 13 59 | 0 45 | 20 52 | 0 16 | 22 59 | 0 29 | 0 29 | 1 2 | 0n 0 | | n.a. |
| T 17 | 18 41 | 9 11 | 2 28 | 18 41 | 0 46 | 26 0 | 2 41 | 21 37 | 1 27 | 22 56 | 0 12 | 3 14 | 2 22 | 13 59 | 0 45 | 20 52 | 0 16 | 22 59 | 0 29 | 0 29 | 1 3 | 0 2 | | n.a. |
| W18 | 18 57 | 5 43 | 1 29 | 19 12 | 0 52 | 25 52 | 2 40 | 21 26 | 1 26 | 22 55 | 0 12 | 3 12 | 2 22 | 13 59 | 0 45 | 20 52 | 0 17 | 22 59 | 0 28 | 0 28 | 1 5 | 0 4 | | n.a. |
| T 19 | 19 12 | 2 2 | 0 26 | 19 42 | 0 58 | 25 45 | 2 37 | 21 15 | 1 25 | 22 55 | 0 11 | 3 10 | 2 22 | 13 58 | 0 45 | 20 52 | 0 17 | 22 59 | 0 28 | 0 28 | 1 6 | 0 6 | | n.a. |
| F 20 | 19 27 | 1n44 | 0s37 | 20 11 | 1 4 | 25 36 | 2 35 | 21 4 | 1 24 | 22 54 | 0 11 | 3 9 | 2 23 | 13 58 | 0 46 | 20 52 | 0 17 | 22 59 | 0 28 | 0 28 | 1 7 | 0 8 | | n.a. |
| S 21 | 19 41 | 5 27 | 1 39 | 20 40 | 1 9 | 25 27 | 2 33 | 20 52 | 1 23 | 22 54 | 0 11 | 3 7 | 2 23 | 13 58 | 0 46 | 20 52 | 0 17 | 22 58 | 0 28 | 0 29 | 1 8 | 0 10 | | n.a. |
| S 22 | 19 55 | 9 0 | 2 37 | 21 7 | 1 15 | 25 18 | 2 30 | 20 40 | 1 22 | 22 53 | 0 11 | 3 5 | 2 23 | 13 58 | 0 46 | 20 52 | 0 17 | 22 58 | 0 28 | 0 31 | 1 10 | 0 11 | | n.a. |
| M23 | 20 9 | 12 14 | 3 29 | 21 34 | 1 20 | 25 7 | 2 27 | 20 29 | 1 21 | 22 53 | 0 11 | 3 3 | 2 23 | 13 58 | 0 46 | 20 53 | 0 17 | 22 58 | 0 28 | 0 34 | 1 11 | 0 13 | | n.a. |
| T 24 | 20 22 | 14 58 | 4 11 | 21 59 | 1 25 | 24 57 | 2 24 | 20 17 | 1 20 | 22 52 | 0 11 | 3 2 | 2 24 | 13 57 | 0 46 | 20 53 | 0 17 | 22 58 | 0 28 | 0 38 | 1 12 | 0 15 | | n.a. |
| W25 | 20 35 | 17 3 | 4 43 | 22 23 | 1 30 | 24 45 | 2 21 | 20 4 | 1 18 | 22 51 | 0 11 | 3 0 | 2 24 | 13 57 | 0 46 | 20 53 | 0 17 | 22 58 | 0 28 | 0 42 | 1 13 | 0 17 | | n.a. |
| T 26 | 20 48 | 18 19 | 5 0 | 22 46 | 1 34 | 24 33 | 2 18 | 19 52 | 1 17 | 22 51 | 0 10 | 2 59 | 2 24 | 13 57 | 0 46 | 20 53 | 0 17 | 22 58 | 0 28 | 0 47 | 1 15 | 0 19 | | n.a. |
| F 27 | 21 0 | 18 38 | 5 2 | 23 8 | 1 38 | 24 21 | 2 14 | 19 39 | 1 16 | 22 50 | 0 10 | 2 57 | 2 24 | 13 57 | 0 46 | 20 53 | 0 17 | 22 58 | 0 28 | 0 52 | 1 16 | 0 21 | | n.a. |
| S 28 | 21 12 | 17 57 | 4 48 | 23 29 | 1 43 | 24 8 | 2 10 | 19 27 | 1 15 | 22 50 | 0 10 | 2 56 | 2 24 | 13 57 | 0 46 | 20 53 | 0 17 | 22 58 | 0 28 | 0 56 | 1 17 | 0 23 | | n.a. |
| S 29 | 21 23 | 16 16 | 4 18 | 23 48 | 1 46 | 23 55 | 2 6 | 19 14 | 1 14 | 22 49 | 0 10 | 2 54 | 2 25 | 13 57 | 0 46 | 20 54 | 0 17 | 22 58 | 0 28 | 0 59 | 1 19 | 0 24 | | n.a. |
| M30 | 21s34 | 13n39 | 3s33 | 24s 6 | 1s50 | 23s41 | 2s 2 | 19s 1 | 1s13 | 22n48 | 0s10 | 2n53 | 2n25 | 13n57 | 0n46 | 20n54 | 0n17 | 22n58 | 0s28 | 1n 0 | 1n20 | 0n26 | | n.a. |

Julian Day Number = 1702734.5, Delta T = 03h04m44s
Ecliptic obliquity = 23°41'55, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°46'11, Lahiri = - 4°39'11 Julian Calendar 1 Nov. 52 BCE == Greg. Calendar 30 Oct. 052 BCE

The year -51 astronomical counting style corresponds to year 052 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 52 BCE
# geocentric

## DECEMBER 52 BCE (-51) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 4 28 46 | 7♐ 9'40 | 26♌55 | 12♐20 | 24♉13 | 11♒ 5 | 16°R 0 | 28♍25 | 25♌17 | 28°R47 | 21°R40 | 27°R27 | 26♍38 | 2♈20 | n.a. | T 1 |
| W 2 | 4 32 42 | 8°10'56 | 10♍51 | 13°57 | 25°10 | 11°49 | 15♊52 | 28°29 | 25°18 | 28♋46 | 21♊39 | 27°D27 | 26°35 | 2°27 | n.a. | W 2 |
| T 3 | 4 36 39 | 9°12'11 | 24°57 | 15°35 | 26° 6 | 12°33 | 15°44 | 28°32 | 25°R18 | 28°45 | 21°38 | 27°R27 | 26°32 | 2°34 | n.a. | T 3 |
| F 4 | 4 40 35 | 10°13'27 | 9♎12 | 17°13 | 27° 2 | 13°17 | 15°36 | 28°36 | 25°18 | 28°44 | 21°36 | 27♍27 | 26°29 | 2°40 | n.a. | F 4 |
| S 5 | 4 44 32 | 11°14'43 | 23°34 | 18°51 | 27°57 | 14° 1 | 15°28 | 28°40 | 25°17 | 28°43 | 21°35 | 27°24 | 26°25 | 2°47 | n.a. | S 5 |
| S 6 | 4 48 28 | 12°15'59 | 7♏59 | 20°30 | 28°52 | 14°45 | 15°20 | 28°44 | 25°17 | 28°42 | 21°34 | 27°19 | 26°22 | 2°54 | n.a. | S 6 |
| M 7 | 4 52 25 | 13°17'16 | 22°24 | 22° 8 | 29°46 | 15°29 | 15°12 | 28°47 | 25°17 | 28°41 | 21°33 | 27°11 | 26°19 | 3° 0 | n.a. | M 7 |
| T 8 | 4 56 22 | 14°18'32 | 6♐43 | 23°47 | 0♒39 | 16°13 | 15° 4 | 28°50 | 25°17 | 28°40 | 21°31 | 27° 0 | 26°16 | 3° 7 | n.a. | T 8 |
| W 9 | 5 0 18 | 15°19'48 | 20°49 | 25°26 | 1°32 | 16°57 | 14°55 | 28°54 | 25°17 | 28°39 | 21°30 | 26°48 | 26°13 | 3°13 | n.a. | W 9 |
| T 10 | 5 4 15 | 16°21'04 | 4♑36 | 27° 5 | 2°24 | 17°41 | 14°47 | 28°57 | 25°16 | 28°38 | 21°29 | 26°35 | 26° 9 | 3°20 | n.a. | T 10 |
| F 11 | 5 8 11 | 17°22'19 | 18° 2 | 28°44 | 3°15 | 18°25 | 14°39 | 29° 0 | 25°16 | 28°37 | 21°28 | 26°23 | 26° 6 | 3°27 | n.a. | F 11 |
| S 12 | 5 12 8 | 18°23'34 | 1♒ 5 | 0♑23 | 4° 5 | 19° 9 | 14°31 | 29° 3 | 25°15 | 28°35 | 21°26 | 26°13 | 26° 3 | 3°33 | n.a. | S 12 |
| S 13 | 5 16 4 | 19°24'48 | 13°45 | 2° 1 | 4°54 | 19°53 | 14°23 | 29° 6 | 25°15 | 28°34 | 21°25 | 26° 6 | 26° 0 | 3°40 | n.a. | S 13 |
| M14 | 5 20 1 | 20°26'02 | 26° 5 | 3°40 | 5°43 | 20°37 | 14°15 | 29° 9 | 25°14 | 28°33 | 21°24 | 26° 2 | 25°57 | 3°47 | n.a. | M14 |
| T 15 | 5 23 57 | 21°27'14 | 8♓ 9 | 5°17 | 6°31 | 21°21 | 14° 7 | 29°12 | 25°13 | 28°32 | 21°22 | 26° 0 | 25°54 | 3°53 | n.a. | T 15 |
| W16 | 5 27 54 | 22°28'26 | 20° 2 | 6°54 | 7°18 | 22° 5 | 13°59 | 29°15 | 25°13 | 28°31 | 21°21 | 25°59 | 25°50 | 4° 0 | n.a. | W16 |
| T 17 | 5 31 51 | 23°29'37 | 1♈50 | 8°30 | 8° 3 | 22°49 | 13°51 | 29°17 | 25°12 | 28°29 | 21°20 | 25°59 | 25°47 | 4° 7 | n.a. | T 17 |
| F 18 | 5 35 47 | 24°30'47 | 13°38 | 10° 5 | 8°48 | 23°33 | 13°43 | 29°20 | 25°11 | 28°28 | 21°19 | 25°58 | 25°44 | 4°13 | n.a. | F 18 |
| S 19 | 5 39 44 | 25°31'56 | 25°32 | 11°38 | 9°32 | 24°17 | 13°35 | 29°22 | 25°10 | 28°27 | 21°17 | 25°56 | 25°41 | 4°20 | n.a. | S 19 |
| S 20 | 5 43 40 | 26°33'05 | 7♉36 | 13°10 | 10°14 | 25° 1 | 13°28 | 29°24 | 25° 9 | 28°25 | 21°16 | 25°51 | 25°38 | 4°27 | n.a. | S 20 |
| M21 | 5 47 37 | 27°34'12 | 19°55 | 14°39 | 10°56 | 25°45 | 13°20 | 29°26 | 25° 8 | 28°24 | 21°15 | 25°43 | 25°35 | 4°33 | n.a. | M21 |
| T 22 | 5 51 33 | 28°35'18 | 2♊31 | 16° 5 | 11°36 | 26°28 | 13°12 | 29°28 | 25° 7 | 28°22 | 21°13 | 25°32 | 25°31 | 4°40 | n.a. | T 22 |
| W23 | 5 55 30 | 29°36'24 | 15°26 | 17°28 | 12°15 | 27°12 | 13° 5 | 29°30 | 25° 6 | 28°21 | 21°12 | 25°19 | 25°28 | 4°47 | n.a. | W23 |
| T 24 | 5 59 27 | 0♑37'29 | 28°38 | 18°47 | 12°53 | 27°56 | 12°58 | 29°32 | 25° 5 | 28°20 | 21°11 | 25° 6 | 25°25 | 4°53 | n.a. | T 24 |
| F 25 | 6 3 23 | 1°38'33 | 12♋ 7 | 20° 1 | 13°29 | 28°40 | 12°50 | 29°34 | 25° 4 | 28°18 | 21°10 | 24°52 | 25°22 | 5° 0 | n.a. | F 25 |
| S 26 | 6 7 20 | 2°39'36 | 25°50 | 21°10 | 14° 4 | 29°23 | 12°43 | 29°36 | 25° 3 | 28°17 | 21° 8 | 24°41 | 25°19 | 5° 6 | n.a. | S 26 |
| S 27 | 6 11 16 | 3°40'38 | 9♌42 | 22°13 | 14°37 | 0♓ 7 | 12°36 | 29°37 | 25° 2 | 28°15 | 21° 7 | 24°32 | 25°15 | 5°13 | n.a. | S 27 |
| M28 | 6 15 13 | 4°41'39 | 23°41 | 23° 9 | 15° 9 | 0°51 | 12°29 | 29°39 | 25° 0 | 28°14 | 21° 6 | 24°26 | 25°12 | 5°20 | n.a. | M28 |
| T 29 | 6 19 9 | 5°42'40 | 7♍44 | 23°57 | 15°40 | 1°34 | 12°22 | 29°40 | 24°59 | 28°12 | 21° 5 | 24°23 | 25° 9 | 5°26 | n.a. | T 29 |
| W30 | 6 23 6 | 6°43'39 | 21°48 | 24°37 | 16° 8 | 2°18 | 12°15 | 29°41 | 24°57 | 28°11 | 21° 3 | 24°D22 | 25° 6 | 5°33 | n.a. | W30 |
| T 31 | 6 27 2 | 7♑44'38 | 5♎53 | 25♑ 7 | 16♒35 | 3♓ 1 | 12♊ 8 | 29♍43 | 24♌56 | 28♋ 9 | 21♊ 2 | 24°R23 | 25♍ 3 | 5♈40 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 21 s44 | 10n15 | 2 s35 | 24 s23 | 1 s53 | 23 s26 | 1 s58 | 18 s47 | 1 s12 | 22n48 | 0 s10 | 2n51 | 2n25 | 13n57 | 0n46 | 20n54 | 0n17 | 22n58 | 0 s28 | 1n 1 | 1n21 | 0n28 | | | n.a. |
| W 2 | 21 55 | 6 14 | 1 27 | 24 39 | 1 56 | 23 11 | 1 53 | 18 34 | 1 11 | 22 47 | 0 10 | 2 50 | 2 25 | 13 57 | 0 46 | 20 54 | 0 17 | 22 58 | 0 28 | 1 2 | 1 22 | 0 30 | | | n.a. |
| T 3 | 22 4 | 1 49 | 0 13 | 24 53 | 1 59 | 22 56 | 1 49 | 18 21 | 1 10 | 22 46 | 0 9 | 2 49 | 2 26 | 13 57 | 0 46 | 20 54 | 0 17 | 22 58 | 0 28 | 1 1 | 1 24 | 0 32 | | | n.a. |
| F 4 | 22 13 | 2 s44 | 1n 2 | 25 5 | 2 1 | 22 40 | 1 44 | 18 7 | 1 9 | 22 45 | 0 9 | 2 47 | 2 26 | 13 57 | 0 46 | 20 55 | 0 17 | 22 58 | 0 28 | 1 2 | 1 25 | 0 34 | | | n.a. |
| S 5 | 22 22 | 7 10 | 2 14 | 25 16 | 2 3 | 22 24 | 1 39 | 17 53 | 1 8 | 22 45 | 0 9 | 2 46 | 2 26 | 13 57 | 0 46 | 20 55 | 0 17 | 22 58 | 0 27 | 1 3 | 1 26 | 0 36 | | | n.a. |
| S 6 | 22 31 | 11 13 | 3 17 | 25 25 | 2 5 | 22 8 | 1 33 | 17 39 | 1 7 | 22 44 | 0 9 | 2 45 | 2 26 | 13 57 | 0 46 | 20 55 | 0 17 | 22 58 | 0 27 | 1 5 | 1 27 | 0 38 | | | n.a. |
| M 7 | 22 38 | 14 34 | 4 8 | 25 33 | 2 6 | 21 51 | 1 28 | 17 25 | 1 6 | 22 43 | 0 9 | 2 44 | 2 27 | 13 57 | 0 46 | 20 55 | 0 17 | 22 58 | 0 27 | 1 8 | 1 29 | 0 39 | | | n.a. |
| T 8 | 22 46 | 17 1 | 4 43 | 25 39 | 2 6 | 21 34 | 1 22 | 17 11 | 1 5 | 22 42 | 0 9 | 2 43 | 2 27 | 13 58 | 0 46 | 20 56 | 0 17 | 22 58 | 0 27 | 1 12 | 1 30 | 0 41 | | | n.a. |
| W 9 | 22 53 | 18 24 | 4 59 | 25 44 | 2 7 | 21 16 | 1 16 | 16 56 | 1 4 | 22 42 | 0 9 | 2 41 | 2 27 | 13 58 | 0 46 | 20 56 | 0 17 | 22 58 | 0 27 | 1 17 | 1 31 | 0 43 | | | n.a. |
| T 10 | 22 59 | 18 39 | 4 58 | 25 46 | 2 6 | 20 58 | 1 10 | 16 42 | 1 3 | 22 41 | 0 8 | 2 40 | 2 27 | 13 58 | 0 46 | 20 56 | 0 17 | 22 58 | 0 27 | 1 22 | 1 33 | 0 45 | | | n.a. |
| F 11 | 23 5 | 17 50 | 4 40 | 25 47 | 2 6 | 20 40 | 1 3 | 16 27 | 1 2 | 22 40 | 0 8 | 2 39 | 2 28 | 13 58 | 0 46 | 20 56 | 0 17 | 22 58 | 0 27 | 1 27 | 1 34 | 0 47 | | | n.a. |
| S 12 | 23 11 | 16 6 | 4 8 | 25 46 | 2 4 | 20 21 | 0 56 | 16 12 | 1 1 | 22 39 | 0 8 | 2 38 | 2 28 | 13 58 | 0 47 | 20 57 | 0 17 | 22 58 | 0 27 | 1 31 | 1 35 | 0 49 | | | n.a. |
| S 13 | 23 16 | 13 37 | 3 24 | 25 44 | 2 3 | 20 3 | 0 50 | 15 57 | 1 0 | 22 39 | 0 8 | 2 37 | 2 28 | 13 59 | 0 47 | 20 57 | 0 17 | 22 58 | 0 27 | 1 34 | 1 36 | 0 51 | | | n.a. |
| M14 | 23 21 | 10 35 | 2 31 | 25 39 | 2 0 | 19 44 | 0 42 | 15 42 | 0 59 | 22 38 | 0 8 | 2 36 | 2 29 | 13 59 | 0 47 | 20 57 | 0 17 | 22 58 | 0 27 | 1 36 | 1 38 | 0 52 | | | n.a. |
| T 15 | 23 25 | 7 10 | 1 33 | 25 32 | 1 57 | 19 25 | 0 35 | 15 27 | 0 58 | 22 37 | 0 8 | 2 36 | 2 29 | 13 59 | 0 47 | 20 57 | 0 17 | 22 58 | 0 27 | 1 37 | 1 39 | 0 54 | | | n.a. |
| W16 | 23 29 | 3 30 | 0 32 | 25 24 | 1 53 | 19 5 | 0 27 | 15 11 | 0 57 | 22 36 | 0 7 | 2 35 | 2 29 | 13 59 | 0 47 | 20 58 | 0 17 | 22 58 | 0 27 | 1 37 | 1 40 | 0 56 | | | n.a. |
| T 17 | 23 32 | 0n16 | 0 s31 | 25 14 | 1 49 | 18 46 | 0 19 | 14 56 | 0 56 | 22 35 | 0 7 | 2 34 | 2 29 | 14 0 | 0 47 | 20 58 | 0 17 | 22 58 | 0 27 | 1 37 | 1 42 | 0 58 | | | n.a. |
| F 18 | 23 35 | 4 1 | 1 32 | 25 2 | 1 44 | 18 26 | 0 11 | 14 40 | 0 55 | 22 35 | 0 7 | 2 33 | 2 30 | 14 0 | 0 47 | 20 58 | 0 17 | 22 58 | 0 27 | 1 37 | 1 43 | 1 0 | | | n.a. |
| S 19 | 23 37 | 7 39 | 2 30 | 24 48 | 1 37 | 18 6 | 0 3 | 14 25 | 0 54 | 22 34 | 0 7 | 2 33 | 2 30 | 14 0 | 0 47 | 20 59 | 0 17 | 22 58 | 0 27 | 1 38 | 1 44 | 1 2 | | | n.a. |
| S 20 | 23 39 | 11 1 | 3 21 | 24 32 | 1 31 | 17 47 | 0n 6 | 14 9 | 0 53 | 22 33 | 0 7 | 2 32 | 2 30 | 14 1 | 0 47 | 20 59 | 0 17 | 22 58 | 0 27 | 1 40 | 1 45 | 1 4 | | | n.a. |
| M21 | 23 41 | 13 59 | 4 5 | 24 15 | 1 23 | 17 27 | 0 15 | 13 53 | 0 52 | 22 32 | 0 7 | 2 31 | 2 30 | 14 1 | 0 47 | 20 59 | 0 17 | 22 58 | 0 26 | 1 43 | 1 47 | 1 5 | | | n.a. |
| T 22 | 23 41 | 16 22 | 4 37 | 23 57 | 1 14 | 17 7 | 0 24 | 13 37 | 0 51 | 22 31 | 0 7 | 2 31 | 2 31 | 14 1 | 0 47 | 20 59 | 0 17 | 22 58 | 0 26 | 1 48 | 1 48 | 1 7 | | | n.a. |
| W23 | 23 42 | 17 59 | 4 56 | 23 37 | 1 4 | 16 47 | 0 33 | 13 21 | 0 50 | 22 31 | 0 6 | 2 30 | 2 31 | 14 2 | 0 47 | 21 0 | 0 17 | 22 58 | 0 26 | 1 53 | 1 49 | 1 9 | | | n.a. |
| T 24 | 23 42 | 18 42 | 5 0 | 23 15 | 0 54 | 16 27 | 0 43 | 13 5 | 0 49 | 22 30 | 0 6 | 2 30 | 2 31 | 14 2 | 0 47 | 21 0 | 0 17 | 22 58 | 0 26 | 1 58 | 1 50 | 1 11 | | | n.a. |
| F 25 | 23 41 | 18 22 | 4 47 | 22 53 | 0 42 | 16 7 | 0 53 | 12 49 | 0 48 | 22 29 | 0 6 | 2 29 | 2 32 | 14 3 | 0 47 | 21 0 | 0 17 | 22 58 | 0 26 | 2 3 | 1 52 | 1 13 | | | n.a. |
| S 26 | 23 40 | 16 59 | 4 18 | 22 30 | 0 30 | 15 47 | 1 3 | 12 32 | 0 47 | 22 28 | 0 6 | 2 29 | 2 32 | 14 3 | 0 47 | 21 1 | 0 17 | 22 58 | 0 26 | 2 8 | 1 53 | 1 15 | | | n.a. |
| S 27 | 23 39 | 14 36 | 3 33 | 22 6 | 0 16 | 15 27 | 1 13 | 12 16 | 0 46 | 22 27 | 0 6 | 2 28 | 2 32 | 14 4 | 0 47 | 21 1 | 0 17 | 22 58 | 0 26 | 2 12 | 1 54 | 1 17 | | | n.a. |
| M28 | 23 37 | 11 20 | 2 35 | 21 43 | 0 1 | 15 8 | 1 24 | 11 59 | 0 45 | 22 27 | 0 6 | 2 28 | 2 32 | 14 4 | 0 47 | 21 1 | 0 17 | 22 58 | 0 26 | 2 14 | 1 56 | 1 19 | | | n.a. |
| T 29 | 23 34 | 7 25 | 1 27 | 21 19 | 0n14 | 14 48 | 1 35 | 11 43 | 0 44 | 22 26 | 0 5 | 2 28 | 2 33 | 14 5 | 0 47 | 21 2 | 0 17 | 22 58 | 0 26 | 2 15 | 1 57 | 1 20 | | | n.a. |
| W30 | 23 32 | 3 5 | 0 14 | 20 56 | 0 30 | 14 29 | 1 46 | 11 26 | 0 43 | 22 25 | 0 5 | 2 28 | 2 33 | 14 5 | 0 47 | 21 2 | 0 17 | 22 58 | 0 26 | 2 15 | 1 58 | 1 22 | | | n.a. |
| T 31 | 23 s28 | 1 s26 | 1n 1 | 20 s34 | 0n47 | 14 s10 | 1n58 | 11 s 9 | 0 s42 | 22n24 | 0 s 5 | 2n27 | 2n33 | 14n 6 | 0n47 | 21n 2 | 0n17 | 22n58 | 0 s26 | 2n15 | 1n59 | 1n24 | | | n.a. |

Julian Day Number = 1702764.5, Delta T = 03h04m43s
Ecliptic obliquity = 23°41'55, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°46'07, Lahiri = - 4°39'07 Julian Calendar 1 Dec. 52 BCE == Greg. Calendar 29 Nov. 052 BCE

The year -51 astronomical counting style corresponds to year 052 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 51 BCE
# geocentric

## JANUARY 51 BCE (-50) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 6 30 59 | 8♑45'36 | 19♎58 | 25♑27 | 17♒ 1 | 3♓45 | 12°R 2 | 29♍44 | 24°R54 | 28°R 8 | 21°R 1 | 24°R22 | 25♍ 0 | 5♈46 | n.a. | F 1 |
| S 2 | 6 34 56 | 9°46'33 | 4♏ 1 | 25°R36 | 17°24 | 4°28 | 11♊55 | 29°45 | 24♌53 | 28♋ 6 | 21♊ 0 | 24♍20 | 24°56 | 5°53 | n.a. | S 2 |
| S 3 | 6 38 52 | 10°47'30 | 18° 3 | 25°35 | 17°46 | 5°12 | 11°49 | 29°45 | 24°51 | 28° 4 | 20°59 | 24°15 | 24°53 | 6° 0 | n.a. | S 3 |
| M 4 | 6 42 49 | 11°48'25 | 2♐ 1 | 25°22 | 18° 6 | 5°55 | 11°43 | 29°46 | 24°50 | 28° 3 | 20°57 | 24° 8 | 24°50 | 6° 6 | n.a. | M 4 |
| T 5 | 6 46 45 | 12°49'20 | 15°51 | 24°58 | 18°23 | 6°39 | 11°37 | 29°47 | 24°48 | 28° 1 | 20°56 | 23°58 | 24°47 | 6°13 | n.a. | T 5 |
| W 6 | 6 50 42 | 13°50'13 | 29°31 | 24°23 | 18°39 | 7°22 | 11°31 | 29°47 | 24°46 | 28° 0 | 20°55 | 23°46 | 24°44 | 6°20 | n.a. | W 6 |
| T 7 | 6 54 38 | 14°51'05 | 12♑58 | 23°39 | 18°53 | 8° 6 | 11°25 | 29°48 | 24°45 | 27°58 | 20°54 | 23°34 | 24°41 | 6°26 | n.a. | T 7 |
| F 8 | 6 58 35 | 15°51'56 | 26° 8 | 22°45 | 19° 4 | 8°49 | 11°20 | 29°48 | 24°43 | 27°56 | 20°53 | 23°22 | 24°37 | 6°33 | n.a. | F 8 |
| S 9 | 7 2 31 | 16°52'45 | 9♒ 0 | 21°45 | 19°13 | 9°32 | 11°14 | 29°48 | 24°41 | 27°55 | 20°52 | 23°13 | 24°34 | 6°40 | n.a. | S 9 |
| S 10 | 7 6 28 | 17°53'33 | 21°33 | 20°39 | 19°20 | 10°16 | 11° 9 | 29°48 | 24°39 | 27°53 | 20°50 | 23° 5 | 24°31 | 6°46 | n.a. | S 10 |
| M11 | 7 10 25 | 18°54'19 | 3♓51 | 19°30 | 19°24 | 10°59 | 11° 4 | 29°R48 | 24°37 | 27°51 | 20°49 | 23° 1 | 24°28 | 6°53 | n.a. | M11 |
| T 12 | 7 14 21 | 19°55'04 | 15°54 | 18°19 | 19°R26 | 11°42 | 10°59 | 29°48 | 24°35 | 27°50 | 20°48 | 22°59 | 24°25 | 7° 0 | n.a. | T 12 |
| W13 | 7 18 18 | 20°55'46 | 27°47 | 17° 8 | 19°25 | 12°25 | 10°54 | 29°48 | 24°33 | 27°48 | 20°47 | 22°D59 | 24°21 | 7° 6 | n.a. | W13 |
| T 14 | 7 22 14 | 21°56'27 | 9♈36 | 16° 0 | 19°22 | 13° 8 | 10°50 | 29°48 | 24°31 | 27°46 | 20°46 | 22°59 | 24°18 | 7°13 | n.a. | T 14 |
| F 15 | 7 26 11 | 22°57'06 | 21°24 | 14°55 | 19°17 | 13°52 | 10°46 | 29°47 | 24°29 | 27°45 | 20°45 | 23°R 0 | 24°15 | 7°19 | n.a. | F 15 |
| S 16 | 7 30 7 | 23°57'44 | 3♉18 | 13°55 | 19° 9 | 14°35 | 10°41 | 29°47 | 24°27 | 27°43 | 20°44 | 22°59 | 24°12 | 7°26 | n.a. | S 16 |
| S 17 | 7 34 4 | 24°58'19 | 15°23 | 13° 2 | 18°58 | 15°18 | 10°37 | 29°46 | 24°25 | 27°41 | 20°43 | 22°57 | 24° 9 | 7°33 | n.a. | S 17 |
| M18 | 7 38 0 | 25°58'53 | 27°43 | 12°15 | 18°45 | 16° 1 | 10°33 | 29°45 | 24°23 | 27°40 | 20°42 | 22°52 | 24° 6 | 7°39 | n.a. | M18 |
| T 19 | 7 41 57 | 26°59'24 | 10♊24 | 11°36 | 18°29 | 16°44 | 10°30 | 29°45 | 24°20 | 27°38 | 20°41 | 22°46 | 24° 2 | 7°46 | n.a. | T 19 |
| W20 | 7 45 54 | 27°59'54 | 23°26 | 11° 4 | 18°11 | 17°27 | 10°26 | 29°44 | 24°18 | 27°36 | 20°40 | 22°37 | 23°59 | 7°53 | n.a. | W20 |
| T 21 | 7 49 50 | 29° 0'22 | 6♋52 | 10°40 | 17°50 | 18°10 | 10°23 | 29°43 | 24°16 | 27°35 | 20°39 | 22°28 | 23°56 | 7°59 | n.a. | T 21 |
| F 22 | 7 53 47 | 0♒ 0'48 | 20°39 | 10°23 | 17°27 | 18°53 | 10°20 | 29°42 | 24°14 | 27°33 | 20°38 | 22°18 | 23°53 | 8° 6 | n.a. | F 22 |
| S 23 | 7 57 43 | 1° 1'13 | 4♌45 | 10°14 | 17° 2 | 19°35 | 10°17 | 29°40 | 24°11 | 27°31 | 20°37 | 22°10 | 23°50 | 8°13 | n.a. | S 23 |
| S 24 | 8 1 40 | 2° 1'35 | 19° 4 | 10°D13 | 16°35 | 20°18 | 10°14 | 29°39 | 24° 9 | 27°30 | 20°36 | 22° 4 | 23°47 | 8°19 | n.a. | S 24 |
| M25 | 8 5 36 | 3° 1'56 | 3♍30 | 10°17 | 16° 6 | 21° 1 | 10°12 | 29°38 | 24° 7 | 27°28 | 20°35 | 22° 0 | 23°43 | 8°26 | n.a. | M25 |
| T 26 | 8 9 33 | 4° 2'15 | 17°59 | 10°29 | 15°34 | 21°44 | 10° 9 | 29°36 | 24° 4 | 27°26 | 20°34 | 21°D59 | 23°40 | 8°33 | n.a. | T 26 |
| W27 | 8 13 29 | 5° 2'33 | 2♎24 | 10°46 | 15° 2 | 22°26 | 10° 7 | 29°34 | 24° 2 | 27°25 | 20°33 | 21°59 | 23°37 | 8°39 | n.a. | W27 |
| T 28 | 8 17 26 | 6° 2'49 | 16°44 | 11° 8 | 14°28 | 23° 9 | 10° 5 | 29°33 | 23°59 | 27°23 | 20°32 | 22° 0 | 23°34 | 8°46 | n.a. | T 28 |
| F 29 | 8 21 23 | 7° 3'03 | 0♏54 | 11°36 | 13°52 | 23°52 | 10° 4 | 29°31 | 23°57 | 27°21 | 20°32 | 22°R 1 | 23°31 | 8°53 | n.a. | F 29 |
| S 30 | 8 25 19 | 8° 3'16 | 14°54 | 12° 9 | 13°16 | 24°34 | 10° 2 | 29°29 | 23°55 | 27°20 | 20°31 | 22° 1 | 23°27 | 8°59 | n.a. | S 30 |
| S 31 | 8 29 16 | 9♒ 3'27 | 28♏43 | 12♑46 | 12♒39 | 25♓17 | 10♊ 1 | 29♍27 | 23♌52 | 27♋18 | 20♊30 | 22♍ 0 | 23♍24 | 9♈ 6 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 23s24 | 5s52 | 2n11 | 20s13 | 1n 5 | 13s51 | 2n 9 | 10s53 | 0s41 | 22n24 | 0s 5 | 2n27 | 2n34 | 14n 6 | 0n47 | 21n 3 | 0n17 | 22n58 | 0s26 | 2n16 | 2n 1 | 1n26 | | n.a. |
| S 2 | 23 20 | 9 58 | 3 14 | 19 54 | 1 23 | 13 33 | 2 21 | 10 36 | 0 40 | 22 23 | 0 5 | 2 27 | 2 34 | 14 7 | 0 47 | 21 3 | 0 17 | 22 58 | 0 26 | 2 16 | 2 2 | 1 28 | | n.a. |
| S 3 | 23 15 | 13 29 | 4 4 | 19 36 | 1 41 | 13 14 | 2 33 | 10 19 | 0 39 | 22 22 | 0 5 | 2 27 | 2 34 | 14 7 | 0 47 | 21 3 | 0 17 | 22 58 | 0 26 | 2 18 | 2 3 | 1 30 | | n.a. |
| M 4 | 23 10 | 16 13 | 4 40 | 19 21 | 1 59 | 12 57 | 2 46 | 10 2 | 0 38 | 22 22 | 0 4 | 2 27 | 2 34 | 14 8 | 0 47 | 21 4 | 0 17 | 22 58 | 0 26 | 2 21 | 2 4 | 1 32 | | n.a. |
| T 5 | 23 4 | 17 59 | 4 59 | 19 8 | 2 16 | 12 39 | 2 58 | 9 45 | 0 37 | 22 21 | 0 4 | 2 27 | 2 35 | 14 8 | 0 47 | 21 4 | 0 17 | 22 58 | 0 25 | 2 25 | 2 6 | 1 33 | | n.a. |
| W 6 | 22 58 | 18 41 | 5 0 | 18 58 | 2 33 | 12 22 | 3 11 | 9 27 | 0 36 | 22 20 | 0 4 | 2 27 | 2 35 | 14 9 | 0 47 | 21 4 | 0 17 | 22 58 | 0 25 | 2 30 | 2 7 | 1 35 | | n.a. |
| T 7 | 22 52 | 18 20 | 4 45 | 18 50 | 2 49 | 12 6 | 3 24 | 9 10 | 0 35 | 22 20 | 0 4 | 2 27 | 2 35 | 14 10 | 0 48 | 21 5 | 0 17 | 22 58 | 0 25 | 2 35 | 2 8 | 1 37 | | n.a. |
| F 8 | 22 45 | 16 59 | 4 15 | 18 45 | 3 3 | 11 50 | 3 37 | 8 53 | 0 34 | 22 19 | 0 4 | 2 27 | 2 36 | 14 10 | 0 48 | 21 5 | 0 17 | 22 58 | 0 25 | 2 40 | 2 10 | 1 39 | | n.a. |
| S 9 | 22 37 | 14 48 | 3 32 | 18 42 | 3 16 | 11 34 | 3 51 | 8 36 | 0 34 | 22 18 | 0 4 | 2 27 | 2 36 | 14 11 | 0 48 | 21 5 | 0 17 | 22 58 | 0 25 | 2 43 | 2 11 | 1 41 | | n.a. |
| S 10 | 22 29 | 11 57 | 2 39 | 18 41 | 3 27 | 11 19 | 4 4 | 8 18 | 0 33 | 22 18 | 0 4 | 2 28 | 2 36 | 14 12 | 0 48 | 21 6 | 0 17 | 22 58 | 0 25 | 2 46 | 2 12 | 1 43 | | n.a. |
| M11 | 22 21 | 8 39 | 1 40 | 18 43 | 3 35 | 11 5 | 4 18 | 8 1 | 0 32 | 22 17 | 0 3 | 2 28 | 2 36 | 14 12 | 0 48 | 21 6 | 0 17 | 22 58 | 0 25 | 2 48 | 2 13 | 1 45 | | n.a. |
| T 12 | 22 12 | 5 2 | 0 38 | 18 47 | 3 41 | 10 51 | 4 32 | 7 43 | 0 31 | 22 17 | 0 3 | 2 28 | 2 37 | 14 13 | 0 48 | 21 6 | 0 18 | 22 58 | 0 25 | 2 49 | 2 15 | 1 46 | | n.a. |
| W13 | 22 3 | 1 17 | 0s26 | 18 52 | 3 45 | 10 38 | 4 45 | 7 26 | 0 30 | 22 16 | 0 3 | 2 29 | 2 37 | 14 14 | 0 48 | 21 7 | 0 18 | 22 58 | 0 25 | 2 49 | 2 16 | 1 48 | | n.a. |
| T 14 | 21 53 | 2n30 | 1 28 | 18 59 | 3 46 | 10 26 | 4 59 | 7 8 | 0 29 | 22 16 | 0 3 | 2 29 | 2 37 | 14 14 | 0 48 | 21 7 | 0 18 | 22 58 | 0 25 | 2 49 | 2 17 | 1 50 | | n.a. |
| F 15 | 21 43 | 6 11 | 2 26 | 19 8 | 3 45 | 10 15 | 5 13 | 6 51 | 0 28 | 22 15 | 0 3 | 2 29 | 2 38 | 14 15 | 0 48 | 21 7 | 0 18 | 22 58 | 0 25 | 2 48 | 2 18 | 1 52 | | n.a. |
| S 16 | 21 33 | 9 38 | 3 19 | 19 17 | 3 42 | 10 4 | 5 27 | 6 33 | 0 27 | 22 15 | 0 3 | 2 30 | 2 38 | 14 16 | 0 48 | 21 8 | 0 18 | 22 58 | 0 25 | 2 49 | 2 20 | 1 54 | | n.a. |
| S 17 | 21 22 | 12 45 | 4 3 | 19 27 | 3 37 | 9 54 | 5 41 | 6 16 | 0 26 | 22 14 | 0 3 | 2 30 | 2 38 | 14 17 | 0 48 | 21 8 | 0 18 | 22 58 | 0 25 | 2 50 | 2 21 | 1 56 | | n.a. |
| M18 | 21 11 | 15 22 | 4 37 | 19 38 | 3 31 | 9 45 | 5 54 | 5 58 | 0 25 | 22 14 | 0 2 | 2 31 | 2 38 | 14 17 | 0 48 | 21 8 | 0 18 | 22 58 | 0 25 | 2 51 | 2 22 | 1 58 | | n.a. |
| T 19 | 20 59 | 17 19 | 4 59 | 19 49 | 3 23 | 9 38 | 6 7 | 5 40 | 0 25 | 22 14 | 0 2 | 2 31 | 2 39 | 14 18 | 0 48 | 21 9 | 0 18 | 22 58 | 0 24 | 2 54 | 2 24 | 1 59 | | n.a. |
| W20 | 20 47 | 18 26 | 5 6 | 20 1 | 3 13 | 9 31 | 6 21 | 5 23 | 0 24 | 22 13 | 0 2 | 2 32 | 2 39 | 14 19 | 0 48 | 21 9 | 0 18 | 22 58 | 0 24 | 2 58 | 2 25 | 2 1 | | n.a. |
| T 21 | 20 35 | 18 35 | 4 57 | 20 13 | 3 3 | 9 25 | 6 33 | 5 5 | 0 23 | 22 13 | 0 2 | 2 33 | 2 39 | 14 20 | 0 48 | 21 9 | 0 18 | 22 58 | 0 24 | 3 1 | 2 26 | 2 3 | | n.a. |
| F 22 | 20 22 | 17 39 | 4 30 | 20 25 | 2 52 | 9 20 | 6 46 | 4 47 | 0 22 | 22 13 | 0 2 | 2 33 | 2 39 | 14 20 | 0 48 | 21 10 | 0 18 | 22 58 | 0 24 | 3 5 | 2 27 | 2 5 | | n.a. |
| S 23 | 20 9 | 15 37 | 3 46 | 20 37 | 2 41 | 9 16 | 6 58 | 4 29 | 0 21 | 22 12 | 0 2 | 2 34 | 2 40 | 14 21 | 0 48 | 21 10 | 0 18 | 22 58 | 0 24 | 3 8 | 2 29 | 2 7 | | n.a. |
| S 24 | 19 55 | 12 37 | 2 48 | 20 49 | 2 29 | 9 13 | 7 9 | 4 12 | 0 20 | 22 12 | 0 1 | 2 35 | 2 40 | 14 22 | 0 48 | 21 11 | 0 18 | 22 58 | 0 24 | 3 11 | 2 30 | 2 9 | | n.a. |
| M25 | 19 42 | 8 48 | 1 38 | 21 1 | 2 17 | 9 11 | 7 20 | 3 54 | 0 19 | 22 12 | 0 1 | 2 36 | 2 40 | 14 23 | 0 48 | 21 11 | 0 18 | 22 58 | 0 24 | 3 12 | 2 31 | 2 11 | | n.a. |
| T 26 | 19 27 | 4 28 | 0 22 | 21 12 | 2 5 | 9 10 | 7 31 | 3 36 | 0 19 | 22 12 | 0 1 | 2 37 | 2 41 | 14 24 | 0 48 | 21 11 | 0 18 | 22 58 | 0 24 | 3 13 | 2 32 | 2 13 | | n.a. |
| W27 | 19 13 | 0s 7 | 0n56 | 21 23 | 1 53 | 9 10 | 7 40 | 3 18 | 0 18 | 22 11 | 0 1 | 2 37 | 2 41 | 14 25 | 0 48 | 21 12 | 0 18 | 22 58 | 0 24 | 3 13 | 2 34 | 2 14 | | n.a. |
| T 28 | 18 58 | 4 39 | 2 10 | 21 34 | 1 40 | 9 11 | 7 49 | 3 0 | 0 17 | 22 11 | 0 1 | 2 38 | 2 41 | 14 25 | 0 48 | 21 12 | 0 18 | 22 58 | 0 24 | 3 12 | 2 35 | 2 16 | | n.a. |
| F 29 | 18 43 | 8 52 | 3 15 | 21 44 | 1 28 | 9 13 | 7 57 | 2 43 | 0 16 | 22 11 | 0 1 | 2 39 | 2 41 | 14 26 | 0 48 | 21 12 | 0 18 | 22 58 | 0 24 | 3 12 | 2 36 | 2 18 | | n.a. |
| S 30 | 18 27 | 12 32 | 4 7 | 21 53 | 1 16 | 9 16 | 8 5 | 2 25 | 0 15 | 22 11 | 0 1 | 2 40 | 2 42 | 14 27 | 0 48 | 21 13 | 0 18 | 22 58 | 0 24 | 3 12 | 2 37 | 2 20 | | n.a. |
| S 31 | 18s11 | 15s28 | 4n45 | 22s 1 | 1n 4 | 9s20 | 8n11 | 2s 7 | 0s14 | 22n11 | 0s 0 | 2n41 | 2n42 | 14n28 | 0n48 | 21n13 | 0n18 | 22n58 | 0s24 | 3n13 | 2n39 | 2n22 | | n.a. |

Julian Day Number = 1702795.5, Delta T = 03h04m42s
Ecliptic obliquity = 23°41'55, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°46'03, Lahiri = - 4°39'03 Julian Calendar 1 Jan. 51 BCE == Greg. Calendar 30 Dec. 052 BCE

The year -50 astronomical counting style corresponds to year 051 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 51 BCE
# geocentric

## FEBRUARY 51 BCE (-50) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 8 33 12 | 10♒ 3'37 | 12♐22 | 13♑27 | 12°R 2 | 25♓59 | 10°R 0 | 29°R25 | 23°R50 | 27°R16 | 20°R29 | 21°R56 | 23♍21 | 9♈13 | n.a. | M 1 |
| T 2 | 8 37 9 | 11° 3'45 | 25°48 | 14°12 | 11♒24 | 26°42 | 9♊59 | 29♍23 | 23♌47 | 27♋15 | 20♊29 | 21♍50 | 23°18 | 9°19 | n.a. | T 2 |
| W 3 | 8 41 5 | 12° 3'51 | 9♑ 2 | 15° 1 | 10°46 | 27°24 | 9°58 | 29°20 | 23°45 | 27°13 | 20°28 | 21°44 | 23°15 | 9°26 | n.a. | W 3 |
| T 4 | 8 45 2 | 13° 3'55 | 22° 4 | 15°53 | 10° 9 | 28° 7 | 9°57 | 29°18 | 23°42 | 27°12 | 20°27 | 21°37 | 23°12 | 9°32 | n.a. | T 4 |
| F 5 | 8 48 58 | 14° 3'58 | 4♒51 | 16°48 | 9°32 | 28°49 | 9°57 | 29°16 | 23°39 | 27°10 | 20°26 | 21°30 | 23° 8 | 9°39 | n.a. | F 5 |
| S 6 | 8 52 55 | 15° 3'58 | 17°26 | 17°46 | 8°56 | 29°31 | 9°D57 | 29°13 | 23°37 | 27° 8 | 20°26 | 21°25 | 23° 5 | 9°46 | n.a. | S 6 |
| S 7 | 8 56 52 | 16° 3'57 | 29°47 | 18°47 | 8°20 | 0♈14 | 9°57 | 29°10 | 23°34 | 27° 7 | 20°25 | 21°21 | 23° 2 | 9°52 | n.a. | S 7 |
| M 8 | 9 0 48 | 17° 3'53 | 11♓56 | 19°50 | 7°47 | 0°56 | 9°57 | 29° 8 | 23°32 | 27° 5 | 20°24 | 21°19 | 22°59 | 9°59 | n.a. | M 8 |
| T 9 | 9 4 45 | 18° 3'47 | 23°55 | 20°56 | 7°14 | 1°38 | 9°57 | 29° 5 | 23°29 | 27° 4 | 20°24 | 21°D18 | 22°56 | 10° 6 | n.a. | T 9 |
| W10 | 9 8 41 | 19° 3'39 | 5♈46 | 22° 4 | 6°43 | 2°20 | 9°58 | 29° 2 | 23°27 | 27° 2 | 20°23 | 21°19 | 22°53 | 10°12 | n.a. | W10 |
| T 11 | 9 12 38 | 20° 3'29 | 17°34 | 23°14 | 6°14 | 3° 3 | 9°59 | 28°59 | 23°24 | 27° 1 | 20°23 | 21°21 | 22°49 | 10°19 | n.a. | T 11 |
| F 12 | 9 16 34 | 21° 3'16 | 29°22 | 24°26 | 5°47 | 3°45 | 10° 0 | 28°56 | 23°21 | 26°59 | 20°22 | 21°23 | 22°46 | 10°26 | n.a. | F 12 |
| S 13 | 9 20 31 | 22° 3'01 | 11♉16 | 25°40 | 5°22 | 4°27 | 10° 1 | 28°53 | 23°19 | 26°58 | 20°22 | 21°24 | 22°43 | 10°32 | n.a. | S 13 |
| S 14 | 9 24 27 | 23° 2'44 | 23°19 | 26°56 | 4°59 | 5° 9 | 10° 2 | 28°50 | 23°16 | 26°56 | 20°21 | 21°R24 | 22°40 | 10°39 | n.a. | S 14 |
| M15 | 9 28 24 | 24° 2'25 | 5♊38 | 28°13 | 4°38 | 5°51 | 10° 4 | 28°46 | 23°14 | 26°55 | 20°21 | 21°24 | 22°37 | 10°46 | n.a. | M15 |
| T 16 | 9 32 20 | 25° 2'03 | 18°16 | 29°33 | 4°20 | 6°33 | 10° 6 | 28°43 | 23°11 | 26°53 | 20°20 | 21°22 | 22°33 | 10°52 | n.a. | T 16 |
| W17 | 9 36 17 | 26° 1'39 | 1♋18 | 0♒54 | 4° 4 | 7°15 | 10° 8 | 28°40 | 23° 8 | 26°52 | 20°20 | 21°19 | 22°30 | 10°59 | n.a. | W17 |
| T 18 | 9 40 14 | 27° 1'12 | 14°46 | 2°16 | 3°50 | 7°57 | 10°10 | 28°36 | 23° 6 | 26°50 | 20°19 | 21°16 | 22°27 | 11° 6 | n.a. | T 18 |
| F 19 | 9 44 10 | 28° 0'43 | 28°39 | 3°40 | 3°39 | 8°39 | 10°12 | 28°32 | 23° 3 | 26°49 | 20°19 | 21°12 | 22°24 | 11°12 | n.a. | F 19 |
| S 20 | 9 48 7 | 29° 0'12 | 12♌56 | 5° 6 | 3°30 | 9°20 | 10°15 | 28°29 | 23° 0 | 26°48 | 20°19 | 21° 9 | 22°21 | 11°19 | n.a. | S 20 |
| S 21 | 9 52 3 | 29°59'38 | 27°32 | 6°33 | 3°24 | 10° 2 | 10°18 | 28°25 | 22°58 | 26°46 | 20°18 | 21° 7 | 22°18 | 11°26 | n.a. | S 21 |
| M22 | 9 56 0 | 0♓59'03 | 12♍21 | 8° 1 | 3°21 | 10°44 | 10°20 | 28°21 | 22°55 | 26°45 | 20°18 | 21° 6 | 22°14 | 11°32 | n.a. | M22 |
| T 23 | 9 59 56 | 1°58'25 | 27°15 | 9°31 | 3°D19 | 11°26 | 10°23 | 28°18 | 22°53 | 26°44 | 20°18 | 21°D 6 | 22°11 | 11°39 | n.a. | T 23 |
| W24 | 10 3 53 | 2°57'45 | 12♎ 7 | 11° 3 | 3°21 | 12° 7 | 10°27 | 28°14 | 22°50 | 26°42 | 20°17 | 21° 6 | 22° 8 | 11°46 | n.a. | W24 |
| T 25 | 10 7 49 | 3°57'03 | 26°49 | 12°35 | 3°24 | 12°49 | 10°30 | 28°10 | 22°48 | 26°41 | 20°17 | 21° 7 | 22° 5 | 11°52 | n.a. | T 25 |
| F 26 | 10 11 46 | 4°56'20 | 11♏16 | 14°10 | 3°30 | 13°30 | 10°34 | 28° 6 | 22°45 | 26°40 | 20°17 | 21° 9 | 22° 2 | 11°59 | n.a. | F 26 |
| S 27 | 10 15 43 | 5°55'34 | 25°26 | 15°45 | 3°38 | 14°12 | 10°38 | 28° 2 | 22°43 | 26°39 | 20°17 | 21° 9 | 21°58 | 12° 5 | n.a. | S 27 |
| S 28 | 10 19 39 | 6♓54'47 | 9♐16 | 17♒22 | 3♒49 | 14♈53 | 10♊42 | 27♍58 | 22♌40 | 26♋37 | 20♊16 | 21°R10 | 21♍55 | 12♈12 | n.a. | S 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 17s55 | 17s28 | 5n 6 | 22s 9 | 0n52 | 9s25 | 8n17 | 1s49 | 0s14 | 22n11 | 0s 0 | 2n43 | 2n42 | 14n29 | 0n48 | 21n13 | 0n18 | 22n58 | 0s24 | 3n14 | 2n40 | 2n24 | | n.a. |
| T 2 | 17 38 | 18 29 | 5 9 | 22 15 | 0 41 | 9 31 | 8 21 | 1 31 | 0 13 | 22 11 | 0 0 | 2 44 | 2 42 | 14 30 | 0 48 | 21 14 | 0 18 | 22 58 | 0 23 | 3 16 | 2 41 | 2 26 | | n.a. |
| W 3 | 17 22 | 18 28 | 4 56 | 22 21 | 0 30 | 9 37 | 8 25 | 1 14 | 0 12 | 22 11 | 0 0 | 2 45 | 2 43 | 14 30 | 0 48 | 21 14 | 0 18 | 22 58 | 0 23 | 3 19 | 2 43 | 2 27 | | n.a. |
| T 4 | 17 5 | 17 28 | 4 28 | 22 26 | 0 19 | 9 44 | 8 28 | 0 56 | 0 11 | 22 11 | 0n 0 | 2 46 | 2 43 | 14 31 | 0 48 | 21 14 | 0 18 | 22 58 | 0 23 | 3 22 | 2 44 | 2 29 | | n.a. |
| F 5 | 16 47 | 15 36 | 3 46 | 22 30 | 0 8 | 9 52 | 8 30 | 0 38 | 0 10 | 22 11 | 0 0 | 2 47 | 2 43 | 14 32 | 0 48 | 21 15 | 0 18 | 22 58 | 0 23 | 3 24 | 2 45 | 2 31 | | n.a. |
| S 6 | 16 29 | 13 1 | 2 54 | 22 32 | 0s 2 | 10 1 | 8 30 | 0 20 | 0 10 | 22 11 | 0 0 | 2 48 | 2 43 | 14 33 | 0 48 | 21 15 | 0 18 | 22 58 | 0 23 | 3 27 | 2 46 | 2 33 | | n.a. |
| S 7 | 16 12 | 9 53 | 1 55 | 22 34 | 0 12 | 10 10 | 8 30 | 0 3 | 0 9 | 22 11 | 0 0 | 2 50 | 2 43 | 14 34 | 0 48 | 21 15 | 0 18 | 22 58 | 0 23 | 3 28 | 2 48 | 2 35 | | n.a. |
| M 8 | 15 53 | 6 23 | 0 51 | 22 34 | 0 22 | 10 19 | 8 29 | 0n15 | 0 8 | 22 12 | 0 1 | 2 51 | 2 44 | 14 35 | 0 48 | 21 16 | 0 18 | 22 58 | 0 23 | 3 29 | 2 49 | 2 37 | | n.a. |
| T 9 | 15 35 | 2 40 | 0s14 | 22 34 | 0 31 | 10 29 | 8 27 | 0 33 | 0 7 | 22 12 | 0 1 | 2 52 | 2 44 | 14 36 | 0 48 | 21 16 | 0 18 | 22 58 | 0 23 | 3 29 | 2 50 | 2 39 | | n.a. |
| W10 | 15 16 | 1n 7 | 1 19 | 22 32 | 0 40 | 10 39 | 8 24 | 0 50 | 0 7 | 22 12 | 0 1 | 2 54 | 2 44 | 14 37 | 0 48 | 21 16 | 0 18 | 22 58 | 0 23 | 3 29 | 2 51 | 2 40 | | n.a. |
| T 11 | 14 57 | 4 50 | 2 19 | 22 28 | 0 49 | 10 50 | 8 21 | 1 8 | 0 6 | 22 12 | 0 1 | 2 55 | 2 44 | 14 37 | 0 48 | 21 16 | 0 18 | 22 58 | 0 23 | 3 28 | 2 53 | 2 42 | | n.a. |
| F 12 | 14 38 | 8 21 | 3 14 | 22 24 | 0 57 | 11 0 | 8 16 | 1 26 | 0 5 | 22 13 | 0 1 | 2 56 | 2 45 | 14 38 | 0 48 | 21 17 | 0 18 | 22 58 | 0 23 | 3 27 | 2 54 | 2 44 | | n.a. |
| S 13 | 14 19 | 11 33 | 4 1 | 22 18 | 1 4 | 11 11 | 8 11 | 1 43 | 0 4 | 22 13 | 0 1 | 2 58 | 2 45 | 14 39 | 0 48 | 21 17 | 0 18 | 22 58 | 0 23 | 3 27 | 2 55 | 2 46 | | n.a. |
| S 14 | 13 59 | 14 19 | 4 38 | 22 10 | 1 12 | 11 22 | 8 6 | 2 1 | 0 4 | 22 13 | 0 1 | 2 59 | 2 45 | 14 40 | 0 48 | 21 17 | 0 18 | 22 58 | 0 23 | 3 27 | 2 57 | 2 48 | | n.a. |
| M15 | 13 39 | 16 30 | 5 3 | 22 2 | 1 19 | 11 33 | 7 59 | 2 18 | 0 3 | 22 14 | 0 2 | 3 1 | 2 45 | 14 41 | 0 48 | 21 18 | 0 18 | 22 58 | 0 23 | 3 27 | 2 58 | 2 50 | | n.a. |
| T 16 | 13 19 | 17 58 | 5 14 | 21 52 | 1 26 | 11 44 | 7 52 | 2 36 | 0 2 | 22 14 | 0 2 | 3 2 | 2 45 | 14 42 | 0 48 | 21 18 | 0 18 | 22 58 | 0 22 | 3 28 | 2 59 | 2 52 | | n.a. |
| W17 | 12 59 | 18 32 | 5 10 | 21 40 | 1 32 | 11 55 | 7 45 | 2 53 | 0 1 | 22 14 | 0 2 | 3 4 | 2 46 | 14 43 | 0 48 | 21 18 | 0 18 | 22 58 | 0 22 | 3 29 | 3 0 | 2 53 | | n.a. |
| T 18 | 12 38 | 18 5 | 4 49 | 21 27 | 1 38 | 12 6 | 7 37 | 3 11 | 0 1 | 22 15 | 0 2 | 3 5 | 2 46 | 14 43 | 0 48 | 21 19 | 0 18 | 22 58 | 0 22 | 3 30 | 3 2 | 2 55 | | n.a. |
| F 19 | 12 18 | 16 34 | 4 10 | 21 13 | 1 43 | 12 17 | 7 28 | 3 28 | 0n 0 | 22 15 | 0 2 | 3 7 | 2 46 | 14 44 | 0 48 | 21 19 | 0 18 | 22 58 | 0 22 | 3 31 | 3 3 | 2 57 | | n.a. |
| S 20 | 11 57 | 14 0 | 3 15 | 20 57 | 1 48 | 12 27 | 7 19 | 3 45 | 0 1 | 22 16 | 0 2 | 3 9 | 2 46 | 14 45 | 0 48 | 21 19 | 0 18 | 22 58 | 0 22 | 3 33 | 3 4 | 2 59 | | n.a. |
| S 21 | 11 36 | 10 29 | 2 7 | 20 39 | 1 53 | 12 38 | 7 10 | 4 2 | 0 2 | 22 16 | 0 2 | 3 10 | 2 46 | 14 46 | 0 48 | 21 19 | 0 18 | 22 58 | 0 22 | 3 34 | 3 5 | 3 1 | | n.a. |
| M22 | 11 15 | 6 16 | 0 48 | 20 21 | 1 57 | 12 48 | 7 1 | 4 20 | 0 2 | 22 17 | 0 2 | 3 12 | 2 46 | 14 47 | 0 48 | 21 20 | 0 18 | 22 58 | 0 22 | 3 34 | 3 7 | 3 3 | | n.a. |
| T 23 | 10 53 | 1 37 | 0n34 | 20 0 | 2 1 | 12 57 | 6 51 | 4 37 | 0 3 | 22 17 | 0 2 | 3 14 | 2 47 | 14 48 | 0 48 | 21 20 | 0 18 | 22 58 | 0 22 | 3 34 | 3 8 | 3 5 | | n.a. |
| W24 | 10 32 | 3s 6 | 1 54 | 19 38 | 2 4 | 13 7 | 6 41 | 4 54 | 0 4 | 22 18 | 0 3 | 3 15 | 2 47 | 14 49 | 0 48 | 21 20 | 0 18 | 22 58 | 0 22 | 3 34 | 3 9 | 3 6 | | n.a. |
| T 25 | 10 10 | 7 34 | 3 5 | 19 15 | 2 7 | 13 16 | 6 31 | 5 11 | 0 4 | 22 19 | 0 3 | 3 17 | 2 47 | 14 49 | 0 48 | 21 20 | 0 18 | 22 59 | 0 22 | 3 33 | 3 10 | 3 8 | | n.a. |
| F 26 | 9 48 | 11 31 | 4 3 | 18 50 | 2 10 | 13 24 | 6 21 | 5 28 | 0 5 | 22 19 | 0 3 | 3 19 | 2 47 | 14 50 | 0 48 | 21 21 | 0 18 | 22 59 | 0 22 | 3 33 | 3 12 | 3 10 | | n.a. |
| S 27 | 9 26 | 14 42 | 4 46 | 18 23 | 2 12 | 13 33 | 6 10 | 5 45 | 0 6 | 22 20 | 0 3 | 3 21 | 2 47 | 14 51 | 0 48 | 21 21 | 0 18 | 22 59 | 0 22 | 3 33 | 3 13 | 3 12 | | n.a. |
| S 28 | 9s 4 | 16s58 | 5n10 | 17s55 | 2s13 | 13s40 | 6n 0 | 6n 2 | 0n 7 | 22n21 | 0n 3 | 3n22 | 2n47 | 14n52 | 0n48 | 21n21 | 0n18 | 22n59 | 0s22 | 3n32 | 3n14 | 3n14 | | n.a. |

Julian Day Number = 1702826.5, Delta T = 03h04m41s
Ecliptic obliquity = 23°41'55, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°45'59, Lahiri = - 4°38'58 Julian Calendar 1 Feb. 51 BCE == Greg. Calendar 30 Jan. 051 BCE

The year -50 astronomical counting style corresponds to year 051 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 51 BCE
# geocentric

## MARCH 51 BCE (-50) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 10 23 36 | 7♓53'58 | 22♐48 | 19♒ 0 | 4♒ 1 | 15♈35 | 10♊46 | 27°R54 | 22°R38 | 26°R36 | 20°R16 | 21°R 9 | 21♍52 | 12♈19 | n.a. | M 1 |
| T 2 | 10 27 32 | 8°53'07 | 6♑ 1 | 20°40 | 4°16 | 16°16 | 10°50 | 27♍50 | 22♌35 | 26♋35 | 20♊16 | 21♍ 8 | 21°49 | 12°25 | n.a. | T 2 |
| W 3 | 10 31 29 | 9°52'15 | 18°57 | 22°21 | 4°32 | 16°58 | 10°54 | 27°45 | 22°33 | 26°34 | 20°16 | 21° 7 | 21°46 | 12°32 | n.a. | W 3 |
| T 4 | 10 35 25 | 10°51'20 | 1♒38 | 24° 4 | 4°51 | 17°39 | 10°59 | 27°41 | 22°30 | 26°33 | 20°16 | 21° 5 | 21°43 | 12°39 | n.a. | T 4 |
| F 5 | 10 39 22 | 11°50'23 | 14° 6 | 25°48 | 5°11 | 18°20 | 11° 4 | 27°37 | 22°28 | 26°32 | 20°16 | 21° 4 | 21°39 | 12°45 | n.a. | F 5 |
| S 6 | 10 43 18 | 12°49'25 | 26°23 | 27°33 | 5°33 | 19° 2 | 11° 9 | 27°33 | 22°25 | 26°31 | 20°16 | 21° 3 | 21°36 | 12°52 | n.a. | S 6 |
| S 7 | 10 47 15 | 13°48'24 | 8♓30 | 29°20 | 5°57 | 19°43 | 11°14 | 27°28 | 22°23 | 26°30 | 20°D16 | 21° 2 | 21°33 | 12°59 | n.a. | S 7 |
| M 8 | 10 51 11 | 14°47'21 | 20°28 | 1♓ 8 | 6°23 | 20°24 | 11°19 | 27°24 | 22°21 | 26°29 | 20°16 | 21°D 2 | 21°30 | 13° 5 | n.a. | M 8 |
| T 9 | 10 55 8 | 15°46'16 | 2♈21 | 2°58 | 6°50 | 21° 5 | 11°25 | 27°19 | 22°18 | 26°28 | 20°16 | 21° 2 | 21°27 | 13°12 | n.a. | T 9 |
| W10 | 10 59 5 | 16°45'09 | 14°10 | 4°49 | 7°19 | 21°46 | 11°30 | 27°15 | 22°16 | 26°27 | 20°16 | 21° 3 | 21°24 | 13°19 | n.a. | W10 |
| T 11 | 11 3 1 | 17°43'59 | 25°58 | 6°42 | 7°50 | 22°28 | 11°36 | 27°11 | 22°14 | 26°26 | 20°16 | 21° 3 | 21°20 | 13°25 | n.a. | T 11 |
| F 12 | 11 6 58 | 18°42'48 | 7♉47 | 8°36 | 8°21 | 23° 9 | 11°42 | 27° 6 | 22°11 | 26°25 | 20°16 | 21° 3 | 21°17 | 13°32 | n.a. | F 12 |
| S 13 | 11 10 54 | 19°41'34 | 19°42 | 10°31 | 8°54 | 23°50 | 11°48 | 27° 2 | 22° 9 | 26°24 | 20°16 | 21° 4 | 21°14 | 13°39 | n.a. | S 13 |
| S 14 | 11 14 51 | 20°40'18 | 1♊46 | 12°28 | 9°29 | 24°31 | 11°54 | 26°57 | 22° 7 | 26°23 | 20°17 | 21° 4 | 21°11 | 13°45 | n.a. | S 14 |
| M15 | 11 18 47 | 21°39'00 | 14° 3 | 14°27 | 10° 5 | 25°12 | 12° 1 | 26°52 | 22° 5 | 26°22 | 20°17 | 21° 4 | 21° 8 | 13°52 | n.a. | M15 |
| T 16 | 11 22 44 | 22°37'39 | 26°38 | 16°26 | 10°42 | 25°53 | 12° 7 | 26°48 | 22° 3 | 26°21 | 20°17 | 21° 4 | 21° 4 | 13°59 | n.a. | T 16 |
| W17 | 11 26 40 | 23°36'16 | 9♋34 | 18°27 | 11°20 | 26°33 | 12°14 | 26°43 | 22° 1 | 26°21 | 20°17 | 21° 4 | 21° 1 | 14° 5 | n.a. | W17 |
| T 18 | 11 30 37 | 24°34'50 | 22°55 | 20°30 | 11°59 | 27°14 | 12°21 | 26°39 | 21°59 | 26°20 | 20°18 | 21° 4 | 20°58 | 14°12 | n.a. | T 18 |
| F 19 | 11 34 34 | 25°33'23 | 6♌43 | 22°34 | 12°40 | 27°55 | 12°28 | 26°34 | 21°56 | 26°19 | 20°18 | 21° 4 | 20°55 | 14°19 | n.a. | F 19 |
| S 20 | 11 38 30 | 26°31'53 | 20°57 | 24°38 | 13°21 | 28°36 | 12°35 | 26°30 | 21°54 | 26°19 | 20°18 | 21° 5 | 20°52 | 14°25 | n.a. | S 20 |
| S 21 | 11 42 27 | 27°30'21 | 5♍36 | 26°44 | 14° 4 | 29°17 | 12°42 | 26°25 | 21°53 | 26°18 | 20°19 | 21° 5 | 20°49 | 14°32 | n.a. | S 21 |
| M22 | 11 46 23 | 28°28'47 | 20°33 | 28°51 | 14°47 | 29°57 | 12°50 | 26°21 | 21°51 | 26°17 | 20°19 | 21°R 5 | 20°45 | 14°39 | n.a. | M22 |
| T 23 | 11 50 20 | 29°27'10 | 5♎42 | 0♈58 | 15°31 | 0♉38 | 12°57 | 26°16 | 21°49 | 26°17 | 20°19 | 21° 5 | 20°42 | 14°45 | n.a. | T 23 |
| W24 | 11 54 16 | 0♈25'32 | 20°52 | 3° 5 | 16°17 | 1°19 | 13° 5 | 26°11 | 21°47 | 26°16 | 20°20 | 21° 5 | 20°39 | 14°52 | n.a. | W24 |
| T 25 | 11 58 13 | 1°23'52 | 5♏55 | 5°13 | 17° 3 | 1°59 | 13°13 | 26° 7 | 21°45 | 26°16 | 20°20 | 21° 4 | 20°36 | 14°59 | n.a. | T 25 |
| F 26 | 12 2 9 | 2°22'10 | 20°42 | 7°21 | 17°50 | 2°40 | 13°20 | 26° 2 | 21°43 | 26°15 | 20°21 | 21° 2 | 20°33 | 15° 5 | n.a. | F 26 |
| S 27 | 12 6 6 | 3°20'27 | 5♐ 8 | 9°29 | 18°38 | 3°20 | 13°28 | 25°58 | 21°41 | 26°15 | 20°21 | 21° 1 | 20°29 | 15°12 | n.a. | S 27 |
| S 28 | 12 10 2 | 4°18'42 | 19° 9 | 11°36 | 19°26 | 4° 1 | 13°37 | 25°53 | 21°40 | 26°14 | 20°22 | 21° 0 | 20°26 | 15°18 | n.a. | S 28 |
| M29 | 12 13 59 | 5°16'56 | 2♑44 | 13°42 | 20°16 | 4°41 | 13°45 | 25°49 | 21°38 | 26°14 | 20°22 | 21°D 0 | 20°23 | 15°25 | n.a. | M29 |
| T 30 | 12 17 56 | 6°15'08 | 15°54 | 15°47 | 21° 6 | 5°22 | 13°53 | 25°44 | 21°36 | 26°14 | 20°23 | 21° 0 | 20°20 | 15°32 | n.a. | T 30 |
| W31 | 12 21 52 | 7♈13'18 | 28♑43 | 17♈50 | 21♒56 | 6♉ 2 | 14♊ 2 | 25♍40 | 21♌35 | 26♋13 | 20♊23 | 21♍ 1 | 20♍17 | 15♈38 | n.a. | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| M 1 | 8s42 | 18s14 | 5n17 | 17s25 | 2s15 | 13s48 | 5n50 | 6n18 | 0n 7 | 22n21 | 0n 3 | 3n24 | 2n47 | 14n53 | 0n48 | 21n21 | 0n18 | 22n59 | 0s22 | 3n33 | 3n16 | 3n16 | | | n.a. |
| T 2 | 8 19 | 18 28 | 5 6 | 16 53 | 2 15 | 13 55 | 5 39 | 6 35 | 0 8 | 22 22 | 0 3 | 3 26 | 2 48 | 14 54 | 0 48 | 21 22 | 0 18 | 22 59 | 0 21 | 3 33 | 3 17 | 3 18 | | | n.a. |
| W 3 | 7 57 | 17 43 | 4 40 | 16 20 | 2 15 | 14 1 | 5 28 | 6 52 | 0 9 | 22 23 | 0 3 | 3 28 | 2 48 | 14 54 | 0 48 | 21 22 | 0 18 | 22 59 | 0 21 | 3 34 | 3 18 | 3 19 | | | n.a. |
| T 4 | 7 34 | 16 5 | 4 1 | 15 46 | 2 15 | 14 7 | 5 18 | 7 9 | 0 9 | 22 24 | 0 4 | 3 29 | 2 48 | 14 55 | 0 48 | 21 22 | 0 18 | 22 59 | 0 21 | 3 34 | 3 19 | 3 21 | | | n.a. |
| F 5 | 7 12 | 13 44 | 3 11 | 15 10 | 2 14 | 14 12 | 5 7 | 7 25 | 0 10 | 22 24 | 0 4 | 3 31 | 2 48 | 14 56 | 0 48 | 21 22 | 0 18 | 22 59 | 0 21 | 3 35 | 3 21 | 3 23 | | | n.a. |
| S 6 | 6 49 | 10 47 | 2 13 | 14 32 | 2 13 | 14 17 | 4 57 | 7 42 | 0 11 | 22 25 | 0 4 | 3 33 | 2 48 | 14 57 | 0 48 | 21 22 | 0 18 | 22 59 | 0 21 | 3 35 | 3 22 | 3 25 | | | n.a. |
| S 7 | 6 26 | 7 24 | 1 9 | 13 52 | 2 11 | 14 22 | 4 46 | 7 58 | 0 11 | 22 26 | 0 4 | 3 35 | 2 48 | 14 57 | 0 48 | 21 23 | 0 18 | 22 59 | 0 21 | 3 35 | 3 23 | 3 27 | | | n.a. |
| M 8 | 6 3 | 3 46 | 0 3 | 13 12 | 2 9 | 14 26 | 4 36 | 8 14 | 0 12 | 22 27 | 0 4 | 3 37 | 2 48 | 14 58 | 0 48 | 21 23 | 0 18 | 22 59 | 0 21 | 3 35 | 3 24 | 3 29 | | | n.a. |
| T 9 | 5 40 | 0 1 | 1s 3 | 12 29 | 2 6 | 14 29 | 4 26 | 8 30 | 0 13 | 22 28 | 0 4 | 3 39 | 2 48 | 14 59 | 0 48 | 21 23 | 0 18 | 22 59 | 0 21 | 3 35 | 3 26 | 3 30 | | | n.a. |
| W10 | 5 17 | 3n44 | 2 5 | 11 45 | 2 3 | 14 32 | 4 15 | 8 47 | 0 13 | 22 29 | 0 4 | 3 40 | 2 48 | 15 0 | 0 48 | 21 23 | 0 18 | 22 59 | 0 21 | 3 35 | 3 27 | 3 32 | | | n.a. |
| T 11 | 4 54 | 7 18 | 3 2 | 10 59 | 1 59 | 14 34 | 4 5 | 9 3 | 0 14 | 22 29 | 0 4 | 3 42 | 2 48 | 15 0 | 0 48 | 21 23 | 0 18 | 22 59 | 0 21 | 3 35 | 3 28 | 3 34 | | | n.a. |
| F 12 | 4 31 | 10 36 | 3 52 | 10 12 | 1 54 | 14 35 | 3 55 | 9 19 | 0 14 | 22 30 | 0 4 | 3 44 | 2 49 | 15 1 | 0 48 | 21 24 | 0 18 | 23 0 | 0 21 | 3 35 | 3 29 | 3 36 | | | n.a. |
| S 13 | 4 7 | 13 29 | 4 32 | 9 23 | 1 50 | 14 36 | 3 45 | 9 35 | 0 15 | 22 31 | 0 5 | 3 46 | 2 49 | 15 2 | 0 48 | 21 24 | 0 18 | 23 0 | 0 21 | 3 35 | 3 31 | 3 38 | | | n.a. |
| S 14 | 3 44 | 15 50 | 5 0 | 8 33 | 1 44 | 14 37 | 3 35 | 9 50 | 0 16 | 22 32 | 0 5 | 3 48 | 2 49 | 15 3 | 0 48 | 21 24 | 0 18 | 23 0 | 0 21 | 3 35 | 3 32 | 3 40 | | | n.a. |
| M15 | 3 21 | 17 31 | 5 16 | 7 42 | 1 38 | 14 37 | 3 25 | 10 6 | 0 16 | 22 33 | 0 5 | 3 50 | 2 49 | 15 3 | 0 48 | 21 24 | 0 18 | 23 0 | 0 21 | 3 35 | 3 33 | 3 42 | | | n.a. |
| T 16 | 2 57 | 18 23 | 5 17 | 6 49 | 1 31 | 14 36 | 3 16 | 10 22 | 0 17 | 22 34 | 0 5 | 3 52 | 2 49 | 15 4 | 0 48 | 21 24 | 0 18 | 23 0 | 0 20 | 3 35 | 3 35 | 3 43 | | | n.a. |
| W17 | 2 34 | 18 20 | 5 2 | 5 54 | 1 24 | 14 35 | 3 6 | 10 37 | 0 18 | 22 35 | 0 5 | 3 54 | 2 49 | 15 5 | 0 48 | 21 24 | 0 18 | 23 0 | 0 20 | 3 35 | 3 36 | 3 45 | | | n.a. |
| T 18 | 2 11 | 17 17 | 4 30 | 4 59 | 1 17 | 14 33 | 2 57 | 10 53 | 0 18 | 22 36 | 0 5 | 3 55 | 2 49 | 15 5 | 0 48 | 21 25 | 0 18 | 23 0 | 0 20 | 3 35 | 3 37 | 3 47 | | | n.a. |
| F 19 | 1 47 | 15 12 | 3 43 | 4 2 | 1 9 | 14 31 | 2 48 | 11 8 | 0 19 | 22 37 | 0 5 | 3 57 | 2 49 | 15 6 | 0 48 | 21 25 | 0 18 | 23 0 | 0 20 | 3 35 | 3 38 | 3 49 | | | n.a. |
| S 20 | 1 24 | 12 9 | 2 40 | 3 4 | 1 0 | 14 28 | 2 38 | 11 24 | 0 19 | 22 38 | 0 5 | 3 59 | 2 49 | 15 7 | 0 48 | 21 25 | 0 18 | 23 0 | 0 20 | 3 34 | 3 40 | 3 51 | | | n.a. |
| S 21 | 1 0 | 8 14 | 1 25 | 2 6 | 0 51 | 14 24 | 2 30 | 11 39 | 0 20 | 22 39 | 0 5 | 4 1 | 2 49 | 15 7 | 0 48 | 21 25 | 0 18 | 23 0 | 0 20 | 3 34 | 3 41 | 3 53 | | | n.a. |
| M22 | 0 37 | 3 44 | 0 3 | 1 6 | 0 42 | 14 20 | 2 21 | 11 54 | 0 21 | 22 40 | 0 5 | 4 3 | 2 49 | 15 8 | 0 48 | 21 25 | 0 18 | 23 0 | 0 20 | 3 34 | 3 42 | 3 55 | | | n.a. |
| T 23 | 0 13 | 1s 4 | 1n20 | 0 6 | 0 32 | 14 15 | 2 12 | 12 9 | 0 21 | 22 41 | 0 6 | 4 5 | 2 49 | 15 8 | 0 48 | 21 25 | 0 18 | 23 1 | 0 20 | 3 34 | 3 43 | 3 56 | | | n.a. |
| W24 | 0n10 | 5 48 | 2 38 | 0n54 | 0 22 | 14 10 | 2 3 | 12 24 | 0 22 | 22 42 | 0 6 | 4 6 | 2 49 | 15 9 | 0 48 | 21 25 | 0 18 | 23 1 | 0 20 | 3 34 | 3 45 | 3 58 | | | n.a. |
| T 25 | 0 34 | 10 7 | 3 44 | 1 55 | 0 11 | 14 4 | 1 55 | 12 38 | 0 22 | 22 44 | 0 6 | 4 8 | 2 49 | 15 10 | 0 48 | 21 25 | 0 18 | 23 1 | 0 20 | 3 35 | 3 46 | 4 0 | | | n.a. |
| F 26 | 0 57 | 13 43 | 4 34 | 2 56 | 0 1 | 13 58 | 1 47 | 12 53 | 0 23 | 22 45 | 0 6 | 4 10 | 2 49 | 15 10 | 0 48 | 21 25 | 0 18 | 23 1 | 0 20 | 3 35 | 3 47 | 4 2 | | | n.a. |
| S 27 | 1 21 | 16 23 | 5 5 | 3 57 | 0n10 | 13 51 | 1 38 | 13 8 | 0 23 | 22 46 | 0 6 | 4 12 | 2 49 | 15 11 | 0 48 | 21 26 | 0 18 | 23 1 | 0 20 | 3 36 | 3 48 | 4 4 | | | n.a. |
| S 28 | 1 44 | 17 59 | 5 17 | 4 57 | 0 21 | 13 43 | 1 30 | 13 22 | 0 24 | 22 47 | 0 6 | 4 14 | 2 49 | 15 11 | 0 48 | 21 26 | 0 18 | 23 1 | 0 20 | 3 36 | 3 50 | 4 6 | | | n.a. |
| M29 | 2 7 | 18 30 | 5 11 | 5 57 | 0 32 | 13 35 | 1 23 | 13 36 | 0 25 | 22 48 | 0 6 | 4 15 | 2 49 | 15 12 | 0 48 | 21 26 | 0 18 | 23 1 | 0 20 | 3 36 | 3 51 | 4 7 | | | n.a. |
| T 30 | 2 31 | 17 59 | 4 48 | 6 56 | 0 43 | 13 26 | 1 15 | 13 51 | 0 25 | 22 49 | 0 6 | 4 17 | 2 49 | 15 12 | 0 48 | 21 26 | 0 18 | 23 1 | 0 19 | 3 36 | 3 52 | 4 9 | | | n.a. |
| W31 | 2n54 | 16s33 | 4n11 | 7n54 | 0n54 | 13s17 | 1n 7 | 14n 5 | 0n26 | 22n50 | 0n 6 | 4n19 | 2n49 | 15n13 | 0n48 | 21n26 | 0n18 | 23n 1 | 0s19 | 3n36 | 3n53 | 4n11 | | | n.a. |

Julian Day Number = 1702854.5, Delta T = 03h04m40s
Ecliptic obliquity = 23°41'55, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°45'55, Lahiri = - 4°38'55 Julian Calendar 1 March 51 BCE == Greg. Calendar 27 Feb. 051 BCE

The year -50 astronomical counting style corresponds to year 051 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 51 BCE
# geocentric

## APRIL 51 BCE (-50) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 25 49 | 8♈11'27 | 11♒13 | 19♈52 | 22♒48 | 6♉42 | 14♊10 | 25°R36 | 21°R33 | 26°R13 | 20♊24 | 21♍ 2 | 20♍14 | 15♈45 | n.a. | T 1 |
| F 2 | 12 29 45 | 9° 9'35 | 23°28 | 21°52 | 23°40 | 7°23 | 14°19 | 25♍31 | 21♌32 | 26♋13 | 20°24 | 21° 3 | 20°10 | 15°52 | n.a. | F 2 |
| S 3 | 12 33 42 | 10° 7'40 | 5♓32 | 23°49 | 24°32 | 8° 3 | 14°28 | 25°27 | 21°30 | 26°13 | 20°25 | 21° 5 | 20° 7 | 15°58 | n.a. | S 3 |
| S 4 | 12 37 38 | 11° 5'44 | 17°28 | 25°43 | 25°26 | 8°43 | 14°37 | 25°23 | 21°29 | 26°12 | 20°26 | 21°R 5 | 20° 4 | 16° 5 | n.a. | S 4 |
| M 5 | 12 41 35 | 12° 3'47 | 29°19 | 27°35 | 26°19 | 9°23 | 14°46 | 25°18 | 21°28 | 26°12 | 20°26 | 21° 5 | 20° 1 | 16°12 | n.a. | M 5 |
| T 6 | 12 45 31 | 13° 1'47 | 11♈ 7 | 29°24 | 27°14 | 10° 4 | 14°55 | 25°14 | 21°26 | 26°12 | 20°27 | 21° 4 | 19°58 | 16°18 | n.a. | T 6 |
| W 7 | 12 49 28 | 13°59'46 | 22°55 | 1♉ 9 | 28° 8 | 10°44 | 15° 5 | 25°10 | 21°25 | 26°12 | 20°28 | 21° 1 | 19°55 | 16°25 | n.a. | W 7 |
| T 8 | 12 53 25 | 14°57'44 | 4♉45 | 2°52 | 29° 4 | 11°24 | 15°14 | 25° 6 | 21°24 | 26°12 | 20°29 | 20°58 | 19°51 | 16°32 | n.a. | T 8 |
| F 9 | 12 57 21 | 15°55'39 | 16°38 | 4°31 | 29°59 | 12° 4 | 15°24 | 25° 2 | 21°23 | 26°12 | 20°29 | 20°54 | 19°48 | 16°38 | n.a. | F 9 |
| S 10 | 13 1 18 | 16°53'33 | 28°38 | 6° 6 | 0♓56 | 12°44 | 15°33 | 24°57 | 21°21 | 26°D12 | 20°30 | 20°50 | 19°45 | 16°45 | n.a. | S 10 |
| S 11 | 13 5 14 | 17°51'26 | 10♊46 | 7°37 | 1°52 | 13°24 | 15°43 | 24°53 | 21°20 | 26°12 | 20°31 | 20°46 | 19°42 | 16°52 | n.a. | S 11 |
| M12 | 13 9 11 | 18°49'16 | 23° 6 | 9° 5 | 2°50 | 14° 4 | 15°53 | 24°49 | 21°19 | 26°12 | 20°32 | 20°42 | 19°39 | 16°58 | n.a. | M12 |
| T 13 | 13 13 7 | 19°47'05 | 5♋41 | 10°29 | 3°47 | 14°44 | 16° 3 | 24°46 | 21°18 | 26°12 | 20°33 | 20°40 | 19°35 | 17° 5 | n.a. | T 13 |
| W14 | 13 17 4 | 20°44'51 | 18°34 | 11°49 | 4°45 | 15°24 | 16°13 | 24°42 | 21°17 | 26°12 | 20°34 | 20°D39 | 19°32 | 17°12 | n.a. | W14 |
| T 15 | 13 21 0 | 21°42'37 | 1♌48 | 13° 6 | 5°43 | 16° 4 | 16°23 | 24°38 | 21°16 | 26°12 | 20°34 | 20°40 | 19°29 | 17°18 | n.a. | T 15 |
| F 16 | 13 24 57 | 22°40'20 | 15°26 | 14°18 | 6°42 | 16°44 | 16°33 | 24°34 | 21°16 | 26°12 | 20°35 | 20°41 | 19°26 | 17°25 | n.a. | F 16 |
| S 17 | 13 28 54 | 23°38'01 | 29°30 | 15°26 | 7°41 | 17°24 | 16°44 | 24°30 | 21°15 | 26°13 | 20°36 | 20°42 | 19°23 | 17°32 | n.a. | S 17 |
| S 18 | 13 32 50 | 24°35'41 | 13♍59 | 16°30 | 8°41 | 18° 3 | 16°54 | 24°27 | 21°14 | 26°13 | 20°37 | 20°R43 | 19°20 | 17°38 | n.a. | S 18 |
| M19 | 13 36 47 | 25°33'19 | 28°49 | 17°30 | 9°40 | 18°43 | 17° 4 | 24°23 | 21°13 | 26°13 | 20°38 | 20°43 | 19°16 | 17°45 | n.a. | M19 |
| T 20 | 13 40 43 | 26°30'55 | 13♎56 | 18°26 | 10°40 | 19°23 | 17°15 | 24°20 | 21°13 | 26°14 | 20°39 | 20°42 | 19°13 | 17°52 | n.a. | T 20 |
| W21 | 13 44 40 | 27°28'31 | 29°10 | 19°17 | 11°41 | 20° 3 | 17°26 | 24°16 | 21°12 | 26°14 | 20°40 | 20°38 | 19°10 | 17°58 | n.a. | W21 |
| T 22 | 13 48 36 | 28°26'04 | 14♏21 | 20° 4 | 12°42 | 20°42 | 17°36 | 24°13 | 21°12 | 26°14 | 20°41 | 20°34 | 19° 7 | 18° 5 | n.a. | T 22 |
| F 23 | 13 52 33 | 29°23'37 | 29°20 | 20°47 | 13°43 | 21°22 | 17°47 | 24° 9 | 21°11 | 26°15 | 20°42 | 20°28 | 19° 4 | 18°12 | n.a. | F 23 |
| S 24 | 13 56 29 | 0♉21'09 | 13♐59 | 21°25 | 14°44 | 22° 2 | 17°58 | 24° 6 | 21°11 | 26°15 | 20°43 | 20°22 | 19° 1 | 18°18 | n.a. | S 24 |
| S 25 | 14 0 26 | 1°18'39 | 28°10 | 21°59 | 15°46 | 22°41 | 18° 9 | 24° 3 | 21°10 | 26°16 | 20°44 | 20°18 | 18°57 | 18°25 | n.a. | S 25 |
| M26 | 14 4 22 | 2°16'09 | 11♑53 | 22°28 | 16°47 | 23°21 | 18°20 | 24° 0 | 21°10 | 26°16 | 20°46 | 20°14 | 18°54 | 18°32 | n.a. | M26 |
| T 27 | 14 8 19 | 3°13'38 | 25° 7 | 22°52 | 17°50 | 24° 0 | 18°31 | 23°57 | 21°10 | 26°17 | 20°47 | 20°12 | 18°51 | 18°38 | n.a. | T 27 |
| W28 | 14 12 16 | 4°11'05 | 7♒56 | 23°12 | 18°52 | 24°40 | 18°43 | 23°54 | 21°10 | 26°17 | 20°48 | 20°D12 | 18°48 | 18°45 | n.a. | W28 |
| T 29 | 14 16 12 | 5° 8'32 | 20°23 | 23°27 | 19°55 | 25°19 | 18°54 | 23°51 | 21° 9 | 26°18 | 20°49 | 20°13 | 18°45 | 18°52 | n.a. | T 29 |
| F 30 | 14 20 9 | 6♉ 5'58 | 2♓34 | 23♉38 | 20♓58 | 25♉59 | 19♊ 5 | 23♍48 | 21♌ 9 | 26♋19 | 20♊50 | 20♍14 | 18♍41 | 18♈58 | n.a. | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3n17 | 14s21 | 3n23 | 8n50 | 1n 4 | 13s 7 | 1n 0 | 14n19 | 0n26 | 22n51 | 0n 6 | 4n21 | 2n49 | 15n13 | 0n48 | 21n26 | 0n18 | 23n 2 | 0s19 | 3n36 | 3n55 | 4n13 | | n.a. |
| F 2 | 3 40 | 11 32 | 2 27 | 9 45 | 1 14 | 12 57 | 0 53 | 14 33 | 0 27 | 22 52 | 0 7 | 4 22 | 2 49 | 15 14 | 0 47 | 21 26 | 0 18 | 23 2 | 0 19 | 3 35 | 3 56 | 4 15 | | n.a. |
| S 3 | 4 3 | 8 16 | 1 25 | 10 39 | 1 24 | 12 46 | 0 45 | 14 46 | 0 27 | 22 54 | 0 7 | 4 24 | 2 49 | 15 14 | 0 47 | 21 26 | 0 18 | 23 2 | 0 19 | 3 34 | 3 57 | 4 17 | | n.a. |
| S 4 | 4 26 | 4 42 | 0 20 | 11 30 | 1 34 | 12 35 | 0 38 | 15 0 | 0 28 | 22 55 | 0 7 | 4 26 | 2 49 | 15 15 | 0 47 | 21 26 | 0 18 | 23 2 | 0 19 | 3 34 | 3 59 | 4 19 | | n.a. |
| M 5 | 4 49 | 0 58 | 0s45 | 12 19 | 1 43 | 12 23 | 0 32 | 15 14 | 0 28 | 22 56 | 0 7 | 4 27 | 2 48 | 15 15 | 0 47 | 21 26 | 0 18 | 23 2 | 0 19 | 3 34 | 4 0 | 4 20 | | n.a. |
| T 6 | 5 12 | 2n47 | 1 48 | 13 7 | 1 51 | 12 11 | 0 25 | 15 27 | 0 29 | 22 57 | 0 7 | 4 29 | 2 48 | 15 15 | 0 47 | 21 26 | 0 18 | 23 2 | 0 19 | 3 35 | 4 1 | 4 22 | | n.a. |
| W 7 | 5 35 | 6 26 | 2 47 | 13 52 | 1 59 | 11 58 | 0 18 | 15 40 | 0 29 | 22 58 | 0 7 | 4 31 | 2 48 | 15 16 | 0 47 | 21 26 | 0 18 | 23 2 | 0 19 | 3 36 | 4 2 | 4 24 | | n.a. |
| T 8 | 5 57 | 9 50 | 3 38 | 14 34 | 2 6 | 11 44 | 0 12 | 15 53 | 0 30 | 22 59 | 0 7 | 4 32 | 2 48 | 15 16 | 0 47 | 21 26 | 0 18 | 23 2 | 0 19 | 3 37 | 4 4 | 4 26 | | n.a. |
| F 9 | 6 20 | 12 51 | 4 20 | 15 15 | 2 13 | 11 31 | 0 6 | 16 6 | 0 31 | 23 0 | 0 7 | 4 34 | 2 48 | 15 17 | 0 47 | 21 26 | 0 18 | 23 2 | 0 19 | 3 39 | 4 5 | 4 28 | | n.a. |
| S 10 | 6 42 | 15 21 | 4 51 | 15 52 | 2 19 | 11 16 | 0s 0 | 16 19 | 0 31 | 23 2 | 0 7 | 4 35 | 2 48 | 15 17 | 0 47 | 21 26 | 0 18 | 23 3 | 0 19 | 3 40 | 4 6 | 4 30 | | n.a. |
| S 11 | 7 5 | 17 12 | 5 9 | 16 28 | 2 24 | 11 1 | 0 6 | 16 32 | 0 32 | 23 3 | 0 7 | 4 37 | 2 48 | 15 17 | 0 47 | 21 26 | 0 18 | 23 3 | 0 19 | 3 42 | 4 7 | 4 31 | | n.a. |
| M12 | 7 27 | 18 18 | 5 13 | 17 1 | 2 28 | 10 46 | 0 12 | 16 45 | 0 32 | 23 4 | 0 8 | 4 38 | 2 48 | 15 17 | 0 47 | 21 26 | 0 18 | 23 3 | 0 19 | 3 43 | 4 9 | 4 33 | | n.a. |
| T 13 | 7 49 | 18 32 | 5 3 | 17 31 | 2 31 | 10 30 | 0 18 | 16 57 | 0 33 | 23 5 | 0 8 | 4 40 | 2 48 | 15 18 | 0 47 | 21 26 | 0 18 | 23 3 | 0 18 | 3 44 | 4 10 | 4 35 | | n.a. |
| W14 | 8 11 | 17 49 | 4 37 | 17 59 | 2 34 | 10 14 | 0 24 | 17 9 | 0 33 | 23 6 | 0 8 | 4 41 | 2 48 | 15 18 | 0 47 | 21 26 | 0 18 | 23 3 | 0 18 | 3 45 | 4 11 | 4 37 | | n.a. |
| T 15 | 8 33 | 16 8 | 3 57 | 18 24 | 2 36 | 9 58 | 0 29 | 17 22 | 0 34 | 23 7 | 0 8 | 4 43 | 2 47 | 15 18 | 0 47 | 21 26 | 0 18 | 23 3 | 0 18 | 3 44 | 4 12 | 4 39 | | n.a. |
| F 16 | 8 55 | 13 30 | 3 1 | 18 47 | 2 37 | 9 41 | 0 34 | 17 34 | 0 34 | 23 9 | 0 8 | 4 44 | 2 47 | 15 19 | 0 47 | 21 26 | 0 18 | 23 3 | 0 18 | 3 44 | 4 14 | 4 41 | | n.a. |
| S 17 | 9 16 | 10 0 | 1 54 | 19 8 | 2 36 | 9 23 | 0 39 | 17 46 | 0 35 | 23 10 | 0 8 | 4 45 | 2 47 | 15 19 | 0 47 | 21 26 | 0 18 | 23 4 | 0 18 | 3 43 | 4 15 | 4 42 | | n.a. |
| S 18 | 9 38 | 5 48 | 0 37 | 19 26 | 2 35 | 9 5 | 0 44 | 17 57 | 0 35 | 23 11 | 0 8 | 4 47 | 2 47 | 15 19 | 0 47 | 21 26 | 0 18 | 23 4 | 0 18 | 3 43 | 4 16 | 4 44 | | n.a. |
| M19 | 9 59 | 1 9 | 0n44 | 19 41 | 2 34 | 8 47 | 0 49 | 18 9 | 0 36 | 23 12 | 0 8 | 4 48 | 2 47 | 15 19 | 0 47 | 21 26 | 0 18 | 23 4 | 0 18 | 3 43 | 4 17 | 4 46 | | n.a. |
| T 20 | 10 20 | 3s40 | 2 3 | 19 55 | 2 31 | 8 28 | 0 54 | 18 20 | 0 36 | 23 13 | 0 8 | 4 49 | 2 47 | 15 19 | 0 47 | 21 26 | 0 18 | 23 4 | 0 18 | 3 44 | 4 19 | 4 48 | | n.a. |
| W21 | 10 41 | 8 16 | 3 14 | 20 5 | 2 27 | 8 9 | 0 58 | 18 32 | 0 36 | 23 14 | 0 8 | 4 51 | 2 47 | 15 19 | 0 47 | 21 26 | 0 18 | 23 4 | 0 18 | 3 45 | 4 20 | 4 50 | | n.a. |
| T 22 | 11 2 | 12 19 | 4 11 | 20 14 | 2 22 | 7 50 | 1 3 | 18 43 | 0 37 | 23 15 | 0 8 | 4 52 | 2 46 | 15 20 | 0 47 | 21 26 | 0 18 | 23 4 | 0 18 | 3 47 | 4 21 | 4 52 | | n.a. |
| F 23 | 11 23 | 15 30 | 4 50 | 20 20 | 2 16 | 7 30 | 1 7 | 18 54 | 0 37 | 23 16 | 0 9 | 4 53 | 2 46 | 15 20 | 0 47 | 21 26 | 0 18 | 23 4 | 0 18 | 3 49 | 4 22 | 4 54 | | n.a. |
| S 24 | 11 43 | 17 37 | 5 9 | 20 24 | 2 10 | 7 10 | 1 11 | 19 5 | 0 38 | 23 17 | 0 9 | 4 54 | 2 46 | 15 20 | 0 47 | 21 26 | 0 18 | 23 5 | 0 18 | 3 51 | 4 24 | 4 55 | | n.a. |
| S 25 | 12 3 | 18 33 | 5 8 | 20 25 | 2 2 | 6 50 | 1 15 | 19 16 | 0 38 | 23 19 | 0 9 | 4 55 | 2 46 | 15 20 | 0 47 | 21 25 | 0 18 | 23 5 | 0 18 | 3 53 | 4 25 | 4 57 | | n.a. |
| M26 | 12 23 | 18 22 | 4 49 | 20 25 | 1 53 | 6 29 | 1 19 | 19 26 | 0 39 | 23 20 | 0 9 | 4 56 | 2 46 | 15 20 | 0 47 | 21 25 | 0 18 | 23 5 | 0 18 | 3 55 | 4 26 | 4 59 | | n.a. |
| T 27 | 12 43 | 17 10 | 4 15 | 20 22 | 1 44 | 6 8 | 1 23 | 19 37 | 0 39 | 23 21 | 0 9 | 4 57 | 2 46 | 15 20 | 0 47 | 21 25 | 0 18 | 23 5 | 0 18 | 3 55 | 4 27 | 5 1 | | n.a. |
| W28 | 13 3 | 15 7 | 3 29 | 20 17 | 1 33 | 5 46 | 1 26 | 19 47 | 0 40 | 23 22 | 0 9 | 4 58 | 2 45 | 15 20 | 0 47 | 21 25 | 0 18 | 23 5 | 0 17 | 3 55 | 4 29 | 5 3 | | n.a. |
| T 29 | 13 23 | 12 24 | 2 35 | 20 9 | 1 22 | 5 25 | 1 30 | 19 57 | 0 40 | 23 23 | 0 9 | 4 59 | 2 45 | 15 20 | 0 47 | 21 25 | 0 18 | 23 5 | 0 17 | 3 55 | 4 30 | 5 5 | | n.a. |
| F 30 | 13n42 | 9s12 | 1n34 | 20n 0 | 1n 9 | 5s 3 | 1s33 | 20n 7 | 0n41 | 23n24 | 0n 9 | 5n 0 | 2n45 | 15n20 | 0n46 | 21n25 | 0n18 | 23n 5 | 0s17 | 3n55 | 4n31 | 5n 6 | | n.a. |

Julian Day Number = 1702885.5, Delta T = 03h04m39s
Ecliptic obliquity = 23°41'56, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°45'51, Lahiri = - 4°38'50 Julian Calendar 1 Apr. 51 BCE == Greg. Calendar 30 March 051 BCE

The year -50 astronomical counting style corresponds to year 051 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 51 BCE
# geocentric

## MAY 51 BCE (-50) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 14 24 5 | 7♉ 3'24 | 14♓32 | 23♉43 | 22♓ 1 | 26♉38 | 19♊17 | 23°R46 | 21°R 9 | 26♋19 | 20♊51 | 20°R15 | 18♍38 | 19♈ 5 | n.a. | S 1 |
| S 2 | 14 28 2 | 8° 0'48 | 26°23 | 23°R44 | 23° 4 | 27°18 | 19°28 | 23♍43 | 21°D 9 | 26°20 | 20°53 | 20♍15 | 18°35 | 19°12 | n.a. | S 2 |
| M 3 | 14 31 58 | 8°58'11 | 8♈10 | 23°41 | 24° 8 | 27°57 | 19°40 | 23°40 | 21♌ 9 | 26°21 | 20°54 | 20°13 | 18°32 | 19°18 | n.a. | M 3 |
| T 4 | 14 35 55 | 9°55'34 | 19°57 | 23°33 | 25°12 | 28°37 | 19°51 | 23°38 | 21° 9 | 26°22 | 20°55 | 20° 9 | 18°29 | 19°25 | n.a. | T 4 |
| W 5 | 14 39 51 | 10°52'56 | 1♉47 | 23°21 | 26°16 | 29°16 | 20° 3 | 23°36 | 21° 9 | 26°22 | 20°56 | 20° 3 | 18°26 | 19°32 | n.a. | W 5 |
| T 6 | 14 43 48 | 11°50'17 | 13°42 | 23° 5 | 27°20 | 29°55 | 20°15 | 23°33 | 21°10 | 26°23 | 20°58 | 19°55 | 18°22 | 19°38 | n.a. | T 6 |
| F 7 | 14 47 45 | 12°47'37 | 25°43 | 22°45 | 28°24 | 0♊35 | 20°27 | 23°31 | 21°10 | 26°24 | 20°59 | 19°46 | 18°19 | 19°45 | n.a. | F 7 |
| S 8 | 14 51 41 | 13°44'56 | 7♊53 | 22°22 | 29°29 | 1°14 | 20°38 | 23°29 | 21°10 | 26°25 | 21° 0 | 19°36 | 18°16 | 19°52 | n.a. | S 8 |
| S 9 | 14 55 38 | 14°42'14 | 20°11 | 21°56 | 0♈34 | 1°53 | 20°50 | 23°27 | 21°11 | 26°26 | 21° 1 | 19°26 | 18°13 | 19°58 | n.a. | S 9 |
| M10 | 14 59 34 | 15°39'32 | 2♋40 | 21°27 | 1°39 | 2°32 | 21° 2 | 23°25 | 21°11 | 26°27 | 21° 3 | 19°18 | 18°10 | 20° 5 | n.a. | M10 |
| T 11 | 15 3 31 | 16°36'48 | 15°22 | 20°57 | 2°44 | 3°12 | 21°14 | 23°23 | 21°12 | 26°28 | 21° 4 | 19°12 | 18° 6 | 20°12 | n.a. | T 11 |
| W12 | 15 7 27 | 17°34'04 | 28°18 | 20°24 | 3°49 | 3°51 | 21°27 | 23°21 | 21°12 | 26°29 | 21° 5 | 19° 8 | 18° 3 | 20°18 | n.a. | W12 |
| T 13 | 15 11 24 | 18°31'18 | 11♌31 | 19°51 | 4°55 | 4°30 | 21°39 | 23°20 | 21°13 | 26°30 | 21° 7 | 19° 6 | 18° 0 | 20°25 | n.a. | T 13 |
| F 14 | 15 15 20 | 19°28'31 | 25° 3 | 19°17 | 6° 0 | 5° 9 | 21°51 | 23°18 | 21°13 | 26°31 | 21° 8 | 19°D 6 | 17°57 | 20°32 | n.a. | F 14 |
| S 15 | 15 19 17 | 20°25'44 | 8♍56 | 18°44 | 7° 6 | 5°48 | 22° 3 | 23°17 | 21°14 | 26°32 | 21° 9 | 19° 7 | 17°54 | 20°38 | n.a. | S 15 |
| S 16 | 15 23 14 | 21°22'55 | 23°10 | 18°11 | 8°12 | 6°27 | 22°16 | 23°15 | 21°15 | 26°33 | 21°11 | 19°R 7 | 17°51 | 20°45 | n.a. | S 16 |
| M17 | 15 27 10 | 22°20'06 | 7♎45 | 17°39 | 9°18 | 7° 6 | 22°28 | 23°14 | 21°15 | 26°34 | 21°12 | 19° 5 | 17°47 | 20°52 | n.a. | M17 |
| T 18 | 15 31 7 | 23°17'16 | 22°37 | 17° 9 | 10°25 | 7°45 | 22°40 | 23°13 | 21°16 | 26°35 | 21°14 | 19° 2 | 17°44 | 20°58 | n.a. | T 18 |
| W19 | 15 35 3 | 24°14'25 | 7♏39 | 16°42 | 11°31 | 8°24 | 22°53 | 23°12 | 21°17 | 26°37 | 21°15 | 18°56 | 17°41 | 21° 5 | n.a. | W19 |
| T 20 | 15 39 0 | 25°11'34 | 22°43 | 16°17 | 12°37 | 9° 3 | 23° 5 | 23°11 | 21°18 | 26°38 | 21°17 | 18°48 | 17°38 | 21°12 | n.a. | T 20 |
| F 21 | 15 42 56 | 26° 8'42 | 7♐39 | 15°56 | 13°44 | 9°42 | 23°18 | 23°10 | 21°19 | 26°39 | 21°18 | 18°38 | 17°35 | 21°18 | n.a. | F 21 |
| S 22 | 15 46 53 | 27° 5'50 | 22°18 | 15°38 | 14°51 | 10°21 | 23°30 | 23° 9 | 21°20 | 26°40 | 21°19 | 18°28 | 17°32 | 21°25 | n.a. | S 22 |
| S 23 | 15 50 50 | 28° 2'58 | 6♑34 | 15°24 | 15°58 | 11° 0 | 23°43 | 23° 8 | 21°21 | 26°42 | 21°21 | 18°19 | 17°28 | 21°32 | n.a. | S 23 |
| M24 | 15 54 46 | 29° 0'05 | 20°21 | 15°14 | 17° 5 | 11°39 | 23°56 | 23° 8 | 21°22 | 26°43 | 21°22 | 18°12 | 17°25 | 21°38 | n.a. | M24 |
| T 25 | 15 58 43 | 29°57'13 | 3♒39 | 15° 9 | 18°12 | 12°18 | 24° 8 | 23° 7 | 21°24 | 26°45 | 21°24 | 18° 7 | 17°22 | 21°45 | n.a. | T 25 |
| W26 | 16 2 39 | 0♊54'20 | 16°31 | 15°D 8 | 19°20 | 12°57 | 24°21 | 23° 7 | 21°25 | 26°46 | 21°25 | 18° 5 | 17°19 | 21°52 | n.a. | W26 |
| T 27 | 16 6 36 | 1°51'28 | 29° 0 | 15°11 | 20°27 | 13°36 | 24°34 | 23° 6 | 21°26 | 26°47 | 21°27 | 18°D 4 | 17°16 | 21°58 | n.a. | T 27 |
| F 28 | 16 10 32 | 2°48'35 | 11♓10 | 15°20 | 21°35 | 14°14 | 24°47 | 23° 6 | 21°28 | 26°49 | 21°28 | 18° 4 | 17°12 | 22° 5 | n.a. | F 28 |
| S 29 | 16 14 29 | 3°45'43 | 23° 8 | 15°33 | 22°42 | 14°53 | 25° 0 | 23° 6 | 21°29 | 26°50 | 21°30 | 18°R 4 | 17° 9 | 22°12 | n.a. | S 29 |
| S 30 | 16 18 25 | 4°42'50 | 4♈58 | 15°51 | 23°50 | 15°32 | 25°12 | 23°D 6 | 21°30 | 26°52 | 21°31 | 18° 3 | 17° 6 | 22°18 | n.a. | S 30 |
| M31 | 16 22 22 | 5♊39'58 | 16♈46 | 16♉14 | 24♈58 | 16♊11 | 25♊25 | 23♍ 6 | 21♌32 | 26♋53 | 21♊33 | 18♍ 0 | 17♍ 3 | 22♈25 | n.a. | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 14n 1 | 5s41 | 0n31 | 19n49 | 0n56 | 4s41 | 1s36 | 20n17 | 0n41 | 23n25 | 0n 9 | 5n 1 | 2n45 | 15n20 | 0n46 | 21n25 | 0n18 | 23n 6 | 0s17 | 3n54 | 4n33 | 5n 8 | | n.a. |
| S 2 | 14 20 | 1 58 | 0s33 | 19 35 | 0 42 | 4 18 | 1 40 | 20 26 | 0 41 | 23 26 | 0 9 | 5 2 | 2 45 | 15 20 | 0 46 | 21 25 | 0 18 | 23 6 | 0 17 | 3 54 | 4 34 | 5 10 | | n.a. |
| M 3 | 14 39 | 1n49 | 1 35 | 19 20 | 0 27 | 3 55 | 1 43 | 20 36 | 0 42 | 23 27 | 0 9 | 5 3 | 2 45 | 15 20 | 0 46 | 21 25 | 0 18 | 23 6 | 0 17 | 3 55 | 4 35 | 5 12 | | n.a. |
| T 4 | 14 57 | 5 31 | 2 33 | 19 3 | 0 12 | 3 32 | 1 45 | 20 45 | 0 42 | 23 28 | 0 10 | 5 4 | 2 44 | 15 20 | 0 46 | 21 24 | 0 18 | 23 6 | 0 17 | 3 56 | 4 36 | 5 14 | | n.a. |
| W 5 | 15 15 | 9 1 | 3 25 | 18 45 | 0s 4 | 3 9 | 1 48 | 20 54 | 0 43 | 23 29 | 0 10 | 5 5 | 2 44 | 15 20 | 0 46 | 21 24 | 0 18 | 23 6 | 0 17 | 3 59 | 4 38 | 5 16 | | n.a. |
| T 6 | 15 33 | 12 11 | 4 7 | 18 25 | 0 21 | 2 46 | 1 51 | 21 3 | 0 43 | 23 30 | 0 10 | 5 5 | 2 44 | 15 20 | 0 46 | 21 24 | 0 18 | 23 6 | 0 17 | 4 2 | 4 39 | 5 17 | | n.a. |
| F 7 | 15 51 | 14 52 | 4 39 | 18 3 | 0 37 | 2 22 | 1 53 | 21 12 | 0 44 | 23 31 | 0 10 | 5 6 | 2 44 | 15 20 | 0 46 | 21 24 | 0 18 | 23 6 | 0 17 | 4 6 | 4 40 | 5 19 | | n.a. |
| S 8 | 16 8 | 16 56 | 4 59 | 17 41 | 0 54 | 1 58 | 1 55 | 21 21 | 0 44 | 23 32 | 0 10 | 5 7 | 2 44 | 15 19 | 0 46 | 21 24 | 0 18 | 23 7 | 0 17 | 4 10 | 4 41 | 5 21 | | n.a. |
| S 9 | 16 25 | 18 15 | 5 5 | 17 18 | 1 12 | 1 34 | 1 57 | 21 29 | 0 44 | 23 33 | 0 10 | 5 7 | 2 43 | 15 19 | 0 46 | 21 24 | 0 18 | 23 7 | 0 17 | 4 14 | 4 43 | 5 23 | | n.a. |
| M10 | 16 42 | 18 43 | 4 57 | 16 54 | 1 29 | 1 10 | 2 0 | 21 38 | 0 45 | 23 34 | 0 10 | 5 8 | 2 43 | 15 19 | 0 46 | 21 23 | 0 18 | 23 7 | 0 17 | 4 17 | 4 44 | 5 25 | | n.a. |
| T 11 | 16 59 | 18 15 | 4 35 | 16 29 | 1 45 | 0 45 | 2 1 | 21 46 | 0 45 | 23 34 | 0 10 | 5 8 | 2 43 | 15 19 | 0 46 | 21 23 | 0 18 | 23 7 | 0 17 | 4 19 | 4 45 | 5 27 | | n.a. |
| W12 | 17 15 | 16 51 | 3 58 | 16 5 | 2 2 | 0 21 | 2 3 | 21 54 | 0 46 | 23 35 | 0 10 | 5 9 | 2 43 | 15 19 | 0 46 | 21 23 | 0 18 | 23 7 | 0 17 | 4 21 | 4 46 | 5 28 | | n.a. |
| T 13 | 17 32 | 14 31 | 3 7 | 15 41 | 2 18 | 0n 4 | 2 5 | 22 1 | 0 46 | 23 36 | 0 10 | 5 9 | 2 42 | 15 18 | 0 46 | 21 23 | 0 18 | 23 7 | 0 16 | 4 22 | 4 48 | 5 30 | | n.a. |
| F 14 | 17 47 | 11 21 | 2 5 | 15 17 | 2 33 | 0 29 | 2 7 | 22 9 | 0 46 | 23 37 | 0 10 | 5 10 | 2 42 | 15 18 | 0 46 | 21 23 | 0 18 | 23 8 | 0 16 | 4 22 | 4 49 | 5 32 | | n.a. |
| S 15 | 18 3 | 7 28 | 0 54 | 14 54 | 2 48 | 0 54 | 2 8 | 22 16 | 0 47 | 23 38 | 0 10 | 5 10 | 2 42 | 15 18 | 0 46 | 21 22 | 0 18 | 23 8 | 0 16 | 4 21 | 4 50 | 5 34 | | n.a. |
| S 16 | 18 18 | 3 4 | 0n22 | 14 32 | 3 1 | 1 19 | 2 9 | 22 24 | 0 47 | 23 39 | 0 11 | 5 11 | 2 42 | 15 18 | 0 46 | 21 22 | 0 18 | 23 8 | 0 16 | 4 21 | 4 51 | 5 36 | | n.a. |
| M17 | 18 33 | 1s37 | 1 38 | 14 11 | 3 14 | 1 44 | 2 11 | 22 31 | 0 48 | 23 40 | 0 11 | 5 11 | 2 42 | 15 17 | 0 46 | 21 22 | 0 18 | 23 8 | 0 16 | 4 22 | 4 53 | 5 37 | | n.a. |
| T 18 | 18 48 | 6 17 | 2 49 | 13 52 | 3 25 | 2 9 | 2 12 | 22 38 | 0 48 | 23 40 | 0 11 | 5 11 | 2 41 | 15 17 | 0 46 | 21 22 | 0 18 | 23 8 | 0 16 | 4 23 | 4 54 | 5 39 | | n.a. |
| W19 | 19 2 | 10 37 | 3 49 | 13 34 | 3 35 | 2 34 | 2 13 | 22 44 | 0 48 | 23 41 | 0 11 | 5 11 | 2 41 | 15 17 | 0 46 | 21 21 | 0 18 | 23 8 | 0 16 | 4 26 | 4 55 | 5 41 | | n.a. |
| T 20 | 19 16 | 14 15 | 4 33 | 13 19 | 3 44 | 3 0 | 2 13 | 22 51 | 0 49 | 23 42 | 0 11 | 5 12 | 2 41 | 15 16 | 0 46 | 21 21 | 0 18 | 23 8 | 0 16 | 4 29 | 4 56 | 5 43 | | n.a. |
| F 21 | 19 30 | 16 56 | 4 58 | 13 5 | 3 52 | 3 25 | 2 14 | 22 57 | 0 49 | 23 43 | 0 11 | 5 12 | 2 41 | 15 16 | 0 46 | 21 21 | 0 18 | 23 9 | 0 16 | 4 33 | 4 58 | 5 45 | | n.a. |
| S 22 | 19 43 | 18 26 | 5 2 | 12 54 | 3 58 | 3 51 | 2 15 | 23 3 | 0 49 | 23 43 | 0 11 | 5 12 | 2 40 | 15 16 | 0 46 | 21 21 | 0 18 | 23 9 | 0 16 | 4 36 | 4 59 | 5 47 | | n.a. |
| S 23 | 19 56 | 18 44 | 4 48 | 12 45 | 4 3 | 4 16 | 2 15 | 23 9 | 0 50 | 23 44 | 0 11 | 5 12 | 2 40 | 15 15 | 0 46 | 21 20 | 0 18 | 23 9 | 0 16 | 4 40 | 5 0 | 5 48 | | n.a. |
| M24 | 20 9 | 17 54 | 4 17 | 12 39 | 4 7 | 4 42 | 2 16 | 23 15 | 0 50 | 23 45 | 0 11 | 5 12 | 2 40 | 15 15 | 0 46 | 21 20 | 0 18 | 23 9 | 0 16 | 4 43 | 5 1 | 5 50 | | n.a. |
| T 25 | 20 22 | 16 6 | 3 33 | 12 35 | 4 9 | 5 7 | 2 16 | 23 21 | 0 51 | 23 45 | 0 11 | 5 12 | 2 40 | 15 14 | 0 45 | 21 20 | 0 18 | 23 9 | 0 16 | 4 45 | 5 3 | 5 52 | | n.a. |
| W26 | 20 34 | 13 31 | 2 39 | 12 34 | 4 10 | 5 33 | 2 16 | 23 26 | 0 51 | 23 46 | 0 11 | 5 12 | 2 39 | 15 14 | 0 45 | 21 20 | 0 18 | 23 9 | 0 16 | 4 46 | 5 4 | 5 54 | | n.a. |
| T 27 | 20 45 | 10 24 | 1 40 | 12 35 | 4 10 | 5 58 | 2 17 | 23 32 | 0 51 | 23 47 | 0 12 | 5 12 | 2 39 | 15 14 | 0 45 | 21 19 | 0 18 | 23 10 | 0 16 | 4 46 | 5 5 | 5 56 | | n.a. |
| F 28 | 20 57 | 6 53 | 0 37 | 12 39 | 4 8 | 6 24 | 2 17 | 23 37 | 0 52 | 23 47 | 0 12 | 5 12 | 2 39 | 15 13 | 0 45 | 21 19 | 0 18 | 23 10 | 0 16 | 4 46 | 5 6 | 5 58 | | n.a. |
| S 29 | 21 8 | 3 10 | 0s27 | 12 45 | 4 6 | 6 49 | 2 16 | 23 42 | 0 52 | 23 48 | 0 12 | 5 11 | 2 39 | 15 13 | 0 45 | 21 19 | 0 18 | 23 10 | 0 15 | 4 46 | 5 8 | 5 59 | | n.a. |
| S 30 | 21 19 | 0n39 | 1 29 | 12 54 | 4 2 | 7 14 | 2 16 | 23 46 | 0 52 | 23 48 | 0 12 | 5 11 | 2 38 | 15 12 | 0 45 | 21 19 | 0 18 | 23 10 | 0 15 | 4 47 | 5 9 | 6 1 | | n.a. |
| M31 | 21n29 | 4n25 | 2s26 | 13n 5 | 3s58 | 7n40 | 2s16 | 23n51 | 0n53 | 23n49 | 0n12 | 5n11 | 2n38 | 15n12 | 0n45 | 21n18 | 0n18 | 23n10 | 0s15 | 4n48 | 5n10 | 6n 3 | | n.a. |

Julian Day Number = 1702915.5, Delta T = 03h04m39s
Ecliptic obliquity = 23°41'55, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°45'47, Lahiri = - 4°38'46 Julian Calendar 1 May 51 BCE == Greg. Calendar 29 Apr. 051 BCE

The year -50 astronomical counting style corresponds to year 051 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 51 BCE
# geocentric

## JUNE 51 BCE (-50) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 26 19 | 6♊37'06 | 28♈35 | 16♉42 | 26♈ 6 | 16♊50 | 25♊38 | 23♍ 6 | 21♌33 | 26♋55 | 21♊34 | 17°R54 | 17♍ 0 | 22♈32 | n.a. | T 1 |
| W 2 | 16 30 15 | 7°34'14 | 10♉29 | 17°14 | 27°14 | 17°28 | 25°51 | 23° 6 | 21°35 | 26°56 | 21°36 | 17♍45 | 16°57 | 22°38 | n.a. | W 2 |
| T 3 | 16 34 12 | 8°31'22 | 22°31 | 17°51 | 28°23 | 18° 7 | 26° 4 | 23° 7 | 21°37 | 26°58 | 21°38 | 17°35 | 16°53 | 22°45 | n.a. | T 3 |
| F 4 | 16 38 8 | 9°28'30 | 4♊43 | 18°33 | 29°31 | 18°46 | 26°17 | 23° 7 | 21°38 | 27° 0 | 21°39 | 17°22 | 16°50 | 22°52 | n.a. | F 4 |
| S 5 | 16 42 5 | 10°25'39 | 17° 6 | 19°19 | 0♉40 | 19°25 | 26°30 | 23° 8 | 21°40 | 27° 1 | 21°41 | 17° 9 | 16°47 | 22°58 | n.a. | S 5 |
| S 6 | 16 46 1 | 11°22'47 | 29°40 | 20°10 | 1°48 | 20° 3 | 26°43 | 23° 8 | 21°42 | 27° 3 | 21°42 | 16°56 | 16°44 | 23° 5 | n.a. | S 6 |
| M 7 | 16 49 58 | 12°19'56 | 12♋25 | 21° 6 | 2°57 | 20°42 | 26°57 | 23° 9 | 21°44 | 27° 5 | 21°44 | 16°45 | 16°41 | 23°12 | n.a. | M 7 |
| T 8 | 16 53 54 | 13°17'04 | 25°21 | 22° 6 | 4° 6 | 21°21 | 27°10 | 23°10 | 21°46 | 27° 6 | 21°45 | 16°36 | 16°38 | 23°18 | n.a. | T 8 |
| W 9 | 16 57 51 | 14°14'13 | 8♌29 | 23°10 | 5°14 | 21°59 | 27°23 | 23°11 | 21°47 | 27° 8 | 21°47 | 16°30 | 16°34 | 23°25 | n.a. | W 9 |
| T 10 | 17 1 48 | 15°11'21 | 21°50 | 24°19 | 6°23 | 22°38 | 27°36 | 23°12 | 21°49 | 27°10 | 21°48 | 16°27 | 16°31 | 23°32 | n.a. | T 10 |
| F 11 | 17 5 44 | 16° 8'30 | 5♍25 | 25°32 | 7°32 | 23°16 | 27°49 | 23°13 | 21°51 | 27°12 | 21°50 | 16°26 | 16°28 | 23°38 | n.a. | F 11 |
| S 12 | 17 9 41 | 17° 5'38 | 19°14 | 26°49 | 8°42 | 23°55 | 28° 2 | 23°14 | 21°54 | 27°13 | 21°52 | 16°26 | 16°25 | 23°45 | n.a. | S 12 |
| S 13 | 17 13 37 | 18° 2'47 | 3♎18 | 28°10 | 9°51 | 24°34 | 28°16 | 23°16 | 21°56 | 27°15 | 21°53 | 16°25 | 16°22 | 23°52 | n.a. | S 13 |
| M14 | 17 17 34 | 18°59'55 | 17°38 | 29°35 | 11° 0 | 25°12 | 28°29 | 23°17 | 21°58 | 27°17 | 21°55 | 16°24 | 16°18 | 23°58 | n.a. | M14 |
| T 15 | 17 21 30 | 19°57'04 | 2♏10 | 1♊ 5 | 12° 9 | 25°51 | 28°42 | 23°19 | 22° 0 | 27°19 | 21°56 | 16°19 | 16°15 | 24° 5 | n.a. | T 15 |
| W16 | 17 25 27 | 20°54'12 | 16°51 | 2°38 | 13°19 | 26°29 | 28°55 | 23°20 | 22° 2 | 27°21 | 21°58 | 16°13 | 16°12 | 24°12 | n.a. | W16 |
| T 17 | 17 29 23 | 21°51'22 | 1♐35 | 4°15 | 14°29 | 27° 8 | 29° 9 | 23°22 | 22° 4 | 27°22 | 21°59 | 16° 3 | 16° 9 | 24°18 | n.a. | T 17 |
| F 18 | 17 33 20 | 22°48'31 | 16°13 | 5°55 | 15°38 | 27°46 | 29°22 | 23°24 | 22° 7 | 27°24 | 22° 1 | 15°53 | 16° 6 | 24°25 | n.a. | F 18 |
| S 19 | 17 37 17 | 23°45'41 | 0♑39 | 7°39 | 16°48 | 28°25 | 29°35 | 23°26 | 22° 9 | 27°26 | 22° 3 | 15°41 | 16° 3 | 24°32 | n.a. | S 19 |
| S 20 | 17 41 13 | 24°42'52 | 14°45 | 9°27 | 17°58 | 29° 3 | 29°48 | 23°28 | 22°12 | 27°28 | 22° 4 | 15°31 | 15°59 | 24°39 | n.a. | S 20 |
| M21 | 17 45 10 | 25°40'03 | 28°28 | 11°18 | 19° 8 | 29°42 | 0♋ 2 | 23°30 | 22°14 | 27°30 | 22° 6 | 15°22 | 15°56 | 24°45 | n.a. | M21 |
| T 22 | 17 49 6 | 26°37'15 | 11♒45 | 13°11 | 20°18 | 0♋20 | 0°15 | 23°32 | 22°16 | 27°32 | 22° 7 | 15°16 | 15°53 | 24°52 | n.a. | T 22 |
| W23 | 17 53 3 | 27°34'28 | 24°37 | 15° 7 | 21°28 | 0°59 | 0°28 | 23°34 | 22°19 | 27°34 | 22° 9 | 15°13 | 15°50 | 24°59 | n.a. | W23 |
| T 24 | 17 56 59 | 28°31'42 | 7♓ 7 | 17° 6 | 22°38 | 1°37 | 0°42 | 23°37 | 22°22 | 27°36 | 22°11 | 15°11 | 15°47 | 25° 5 | n.a. | T 24 |
| F 25 | 18 0 56 | 29°28'57 | 19°20 | 19° 6 | 23°48 | 2°15 | 0°55 | 23°39 | 22°24 | 27°38 | 22°12 | 15°D11 | 15°44 | 25°12 | n.a. | F 25 |
| S 26 | 18 4 52 | 0♋26'12 | 1♈19 | 21° 9 | 24°58 | 2°54 | 1° 8 | 23°42 | 22°27 | 27°40 | 22°14 | 15°R11 | 15°40 | 25°19 | n.a. | S 26 |
| S 27 | 18 8 49 | 1°23'29 | 13°10 | 23°12 | 26° 9 | 3°32 | 1°22 | 23°44 | 22°29 | 27°42 | 22°15 | 15°11 | 15°37 | 25°25 | n.a. | S 27 |
| M28 | 18 12 46 | 2°20'47 | 24°59 | 25°17 | 27°19 | 4°11 | 1°35 | 23°47 | 22°32 | 27°44 | 22°17 | 15° 8 | 15°34 | 25°32 | n.a. | M28 |
| T 29 | 18 16 42 | 3°18'06 | 6♉51 | 27°23 | 28°30 | 4°49 | 1°48 | 23°50 | 22°35 | 27°46 | 22°18 | 15° 4 | 15°31 | 25°39 | n.a. | T 29 |
| W30 | 18 20 39 | 4♋15'26 | 18♉50 | 29♊29 | 29♉41 | 5♋27 | 2♋ 1 | 23♍53 | 22♌38 | 27♋48 | 22♊20 | 14♍57 | 15♍28 | 25♈45 | n.a. | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21n39 | 8n 1 | 3s17 | 13n18 | 3s52 | 8n 5 | 2s16 | 23n55 | 0n53 | 23n50 | 0n12 | 5n11 | 2n38 | 15n11 | 0n45 | 21n18 | 0n18 | 23n10 | 0s15 | 4n50 | 5n11 | 6n 5 | | n.a. |
| W 2 | 21 49 | 11 20 | 4 0 | 13 33 | 3 46 | 8 30 | 2 15 | 23 59 | 0 53 | 23 50 | 0 12 | 5 10 | 2 38 | 15 10 | 0 45 | 21 18 | 0 18 | 23 11 | 0 15 | 4 53 | 5 13 | 6 7 | | n.a. |
| T 3 | 21 58 | 14 12 | 4 33 | 13 50 | 3 39 | 8 55 | 2 15 | 24 3 | 0 54 | 23 51 | 0 12 | 5 10 | 2 37 | 15 10 | 0 45 | 21 17 | 0 18 | 23 11 | 0 15 | 4 58 | 5 14 | 6 8 | | n.a. |
| F 4 | 22 7 | 16 30 | 4 53 | 14 10 | 3 31 | 9 20 | 2 14 | 24 7 | 0 54 | 23 51 | 0 12 | 5 10 | 2 37 | 15 9 | 0 45 | 21 17 | 0 18 | 23 11 | 0 15 | 5 3 | 5 15 | 6 10 | | n.a. |
| S 5 | 22 15 | 18 5 | 5 0 | 14 31 | 3 22 | 9 45 | 2 13 | 24 10 | 0 54 | 23 51 | 0 12 | 5 9 | 2 37 | 15 9 | 0 45 | 21 17 | 0 18 | 23 11 | 0 15 | 5 8 | 5 16 | 6 12 | | n.a. |
| S 6 | 22 23 | 18 49 | 4 53 | 14 53 | 3 13 | 10 10 | 2 12 | 24 14 | 0 55 | 23 52 | 0 12 | 5 9 | 2 37 | 15 8 | 0 45 | 21 16 | 0 18 | 23 11 | 0 15 | 5 13 | 5 18 | 6 14 | | n.a. |
| M 7 | 22 31 | 18 37 | 4 31 | 15 17 | 3 3 | 10 34 | 2 11 | 24 17 | 0 55 | 23 52 | 0 13 | 5 8 | 2 36 | 15 7 | 0 45 | 21 16 | 0 18 | 23 11 | 0 15 | 5 17 | 5 19 | 6 16 | | n.a. |
| T 8 | 22 38 | 17 27 | 3 55 | 15 43 | 2 52 | 10 59 | 2 10 | 24 20 | 0 55 | 23 53 | 0 13 | 5 8 | 2 36 | 15 7 | 0 45 | 21 16 | 0 18 | 23 12 | 0 15 | 5 21 | 5 20 | 6 18 | | n.a. |
| W 9 | 22 45 | 15 21 | 3 6 | 16 10 | 2 41 | 11 23 | 2 9 | 24 23 | 0 56 | 23 53 | 0 13 | 5 7 | 2 36 | 15 6 | 0 45 | 21 15 | 0 18 | 23 12 | 0 15 | 5 23 | 5 21 | 6 19 | | n.a. |
| T 10 | 22 52 | 12 24 | 2 6 | 16 38 | 2 30 | 11 47 | 2 8 | 24 25 | 0 56 | 23 53 | 0 13 | 5 6 | 2 36 | 15 5 | 0 45 | 21 15 | 0 18 | 23 12 | 0 15 | 5 24 | 5 23 | 6 21 | | n.a. |
| F 11 | 22 58 | 8 44 | 0 58 | 17 7 | 2 18 | 12 11 | 2 7 | 24 28 | 0 56 | 23 54 | 0 13 | 5 6 | 2 35 | 15 5 | 0 45 | 21 15 | 0 18 | 23 12 | 0 15 | 5 25 | 5 24 | 6 23 | | n.a. |
| S 12 | 23 4 | 4 32 | 0n15 | 17 37 | 2 6 | 12 34 | 2 6 | 24 30 | 0 57 | 23 54 | 0 13 | 5 5 | 2 35 | 15 4 | 0 45 | 21 14 | 0 18 | 23 12 | 0 15 | 5 25 | 5 25 | 6 25 | | n.a. |
| S 13 | 23 9 | 0 1 | 1 28 | 18 7 | 1 54 | 12 58 | 2 4 | 24 32 | 0 57 | 23 54 | 0 13 | 5 4 | 2 35 | 15 3 | 0 45 | 21 14 | 0 18 | 23 12 | 0 14 | 5 25 | 5 26 | 6 27 | | n.a. |
| M14 | 23 14 | 4s35 | 2 37 | 18 38 | 1 41 | 13 21 | 2 3 | 24 34 | 0 57 | 23 55 | 0 13 | 5 3 | 2 35 | 15 3 | 0 45 | 21 14 | 0 18 | 23 13 | 0 14 | 5 26 | 5 28 | 6 28 | | n.a. |
| T 15 | 23 19 | 8 58 | 3 37 | 19 9 | 1 28 | 13 44 | 2 1 | 24 35 | 0 57 | 23 55 | 0 13 | 5 2 | 2 34 | 15 2 | 0 45 | 21 13 | 0 18 | 23 13 | 0 14 | 5 27 | 5 29 | 6 30 | | n.a. |
| W16 | 23 23 | 12 51 | 4 23 | 19 41 | 1 15 | 14 6 | 1 59 | 24 37 | 0 58 | 23 55 | 0 13 | 5 2 | 2 34 | 15 1 | 0 45 | 21 13 | 0 18 | 23 13 | 0 14 | 5 30 | 5 30 | 6 32 | | n.a. |
| T 17 | 23 27 | 15 57 | 4 51 | 20 12 | 1 3 | 14 29 | 1 58 | 24 38 | 0 58 | 23 55 | 0 13 | 5 1 | 2 34 | 15 0 | 0 45 | 21 13 | 0 18 | 23 13 | 0 14 | 5 33 | 5 31 | 6 34 | | n.a. |
| F 18 | 23 30 | 17 59 | 5 1 | 20 43 | 0 50 | 14 51 | 1 56 | 24 39 | 0 58 | 23 55 | 0 14 | 5 0 | 2 34 | 15 0 | 0 45 | 21 12 | 0 18 | 23 13 | 0 14 | 5 38 | 5 33 | 6 36 | | n.a. |
| S 19 | 23 33 | 18 51 | 4 51 | 21 13 | 0 37 | 15 13 | 1 54 | 24 40 | 0 59 | 23 56 | 0 14 | 4 59 | 2 33 | 14 59 | 0 45 | 21 12 | 0 18 | 23 13 | 0 14 | 5 42 | 5 34 | 6 38 | | n.a. |
| S 20 | 23 35 | 18 31 | 4 23 | 21 42 | 0 25 | 15 34 | 1 52 | 24 41 | 0 59 | 23 56 | 0 14 | 4 58 | 2 33 | 14 58 | 0 45 | 21 12 | 0 18 | 23 13 | 0 14 | 5 46 | 5 35 | 6 39 | | n.a. |
| M21 | 23 38 | 17 5 | 3 41 | 22 10 | 0 12 | 15 56 | 1 50 | 24 41 | 0 59 | 23 56 | 0 14 | 4 57 | 2 33 | 14 57 | 0 45 | 21 11 | 0 18 | 23 14 | 0 14 | 5 49 | 5 36 | 6 41 | | n.a. |
| T 22 | 23 39 | 14 46 | 2 47 | 22 37 | 0 0 | 16 16 | 1 48 | 24 41 | 0 59 | 23 56 | 0 14 | 4 56 | 2 33 | 14 56 | 0 44 | 21 11 | 0 18 | 23 14 | 0 14 | 5 52 | 5 38 | 6 43 | | n.a. |
| W23 | 23 41 | 11 47 | 1 47 | 23 3 | 0n11 | 16 37 | 1 46 | 24 41 | 1 0 | 23 56 | 0 14 | 4 54 | 2 32 | 14 55 | 0 44 | 21 10 | 0 18 | 23 14 | 0 14 | 5 53 | 5 39 | 6 45 | | n.a. |
| T 24 | 23 41 | 8 20 | 0 43 | 23 26 | 0 22 | 16 57 | 1 44 | 24 41 | 1 0 | 23 56 | 0 14 | 4 53 | 2 32 | 14 54 | 0 44 | 21 10 | 0 18 | 23 14 | 0 14 | 5 54 | 5 40 | 6 47 | | n.a. |
| F 25 | 23 42 | 4 36 | 0s22 | 23 47 | 0 33 | 17 17 | 1 42 | 24 41 | 1 0 | 23 56 | 0 14 | 4 52 | 2 32 | 14 54 | 0 44 | 21 10 | 0 18 | 23 14 | 0 14 | 5 54 | 5 41 | 6 48 | | n.a. |
| S 26 | 23 42 | 0 46 | 1 25 | 24 7 | 0 43 | 17 36 | 1 40 | 24 40 | 1 0 | 23 56 | 0 14 | 4 51 | 2 32 | 14 53 | 0 44 | 21 9 | 0 18 | 23 14 | 0 14 | 5 54 | 5 42 | 6 50 | | n.a. |
| S 27 | 23 41 | 3n 4 | 2 23 | 24 23 | 0 52 | 17 55 | 1 37 | 24 40 | 1 1 | 23 56 | 0 14 | 4 50 | 2 31 | 14 52 | 0 44 | 21 9 | 0 18 | 23 15 | 0 14 | 5 54 | 5 44 | 6 52 | | n.a. |
| M28 | 23 41 | 6 45 | 3 15 | 24 38 | 1 1 | 18 14 | 1 35 | 24 39 | 1 1 | 23 56 | 0 15 | 4 48 | 2 31 | 14 51 | 0 44 | 21 8 | 0 18 | 23 15 | 0 14 | 5 55 | 5 45 | 6 54 | | n.a. |
| T 29 | 23 39 | 10 12 | 3 58 | 24 49 | 1 9 | 18 32 | 1 33 | 24 38 | 1 1 | 23 56 | 0 15 | 4 47 | 2 31 | 14 50 | 0 44 | 21 8 | 0 18 | 23 15 | 0 14 | 5 57 | 5 46 | 6 56 | | n.a. |
| W30 | 23n38 | 13n15 | 4s32 | 24n58 | 1n16 | 18n50 | 1s30 | 24n37 | 1n 2 | 23n56 | 0n15 | 4n45 | 2n31 | 14n49 | 0n44 | 21n 8 | 0n18 | 23n15 | 0s13 | 6n 0 | 5n47 | 6n57 | | n.a. |

Julian Day Number = 1702946.5, Delta T = 03h04m38s
Ecliptic obliquity = 23°41'55, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°45'43, Lahiri = - 4°38'42 Julian Calendar 1 June 51 BCE == Greg. Calendar 30 May 051 BCE

The year -50 astronomical counting style corresponds to year 051 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 51 BCE
# geocentric

## JULY 51 BCE (-50) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 24 35 | 5♋12'47 | 1♊ 0 | 1♋35 | 0♊51 | 6♋ 6 | 2♋15 | 23♍56 | 22♌41 | 27♋50 | 22♊21 | 14°R47 | 15♍24 | 25♈52 | n.a. | T 1 |
| F 2 | 18 28 32 | 6°10'09 | 13°22 | 3°41 | 2° 2 | 6°44 | 2°28 | 23°59 | 22°43 | 27°52 | 22°23 | 14♍36 | 15°21 | 25°59 | n.a. | F 2 |
| S 3 | 18 32 28 | 7° 7'33 | 25°59 | 5°47 | 3°13 | 7°22 | 2°41 | 24° 2 | 22°46 | 27°55 | 22°25 | 14°25 | 15°18 | 26° 5 | n.a. | S 3 |
| S 4 | 18 36 25 | 8° 4'57 | 8♋50 | 7°52 | 4°24 | 8° 1 | 2°55 | 24° 5 | 22°49 | 27°57 | 22°26 | 14°13 | 15°15 | 26°12 | n.a. | S 4 |
| M 5 | 18 40 22 | 9° 2'23 | 21°55 | 9°57 | 5°35 | 8°39 | 3° 8 | 24° 9 | 22°52 | 27°59 | 22°28 | 14° 4 | 15°12 | 26°19 | n.a. | M 5 |
| T 6 | 18 44 18 | 9°59'49 | 5♌12 | 12° 0 | 6°46 | 9°17 | 3°21 | 24°12 | 22°55 | 28° 1 | 22°29 | 13°56 | 15° 9 | 26°25 | n.a. | T 6 |
| W 7 | 18 48 15 | 10°57'17 | 18°41 | 14° 3 | 7°57 | 9°56 | 3°35 | 24°16 | 22°58 | 28° 3 | 22°31 | 13°51 | 15° 5 | 26°32 | n.a. | W 7 |
| T 8 | 18 52 11 | 11°54'45 | 2♍20 | 16° 4 | 9° 8 | 10°34 | 3°48 | 24°19 | 23° 1 | 28° 5 | 22°32 | 13°48 | 15° 2 | 26°39 | n.a. | T 8 |
| F 9 | 18 56 8 | 12°52'14 | 16° 7 | 18° 4 | 10°20 | 11°12 | 4° 1 | 24°23 | 23° 4 | 28° 7 | 22°34 | 13°D48 | 14°59 | 26°45 | n.a. | F 9 |
| S 10 | 19 0 4 | 13°49'44 | 0♎ 3 | 20° 2 | 11°31 | 11°51 | 4°14 | 24°27 | 23° 7 | 28°10 | 22°35 | 13°48 | 14°56 | 26°52 | n.a. | S 10 |
| S 11 | 19 4 1 | 14°47'15 | 14° 7 | 22° 0 | 12°42 | 12°29 | 4°27 | 24°30 | 23°10 | 28°12 | 22°37 | 13°R49 | 14°53 | 26°59 | n.a. | S 11 |
| M12 | 19 7 57 | 15°44'47 | 28°18 | 23°56 | 13°54 | 13° 7 | 4°41 | 24°34 | 23°14 | 28°14 | 22°38 | 13°48 | 14°50 | 27° 5 | n.a. | M12 |
| T 13 | 19 11 54 | 16°42'20 | 12♏34 | 25°50 | 15° 5 | 13°46 | 4°54 | 24°38 | 23°17 | 28°16 | 22°40 | 13°46 | 14°46 | 27°12 | n.a. | T 13 |
| W14 | 19 15 51 | 17°39'54 | 26°53 | 27°43 | 16°17 | 14°24 | 5° 7 | 24°42 | 23°20 | 28°18 | 22°41 | 13°41 | 14°43 | 27°19 | n.a. | W14 |
| T 15 | 19 19 47 | 18°37'29 | 11♐11 | 29°34 | 17°29 | 15° 2 | 5°20 | 24°46 | 23°23 | 28°21 | 22°43 | 13°34 | 14°40 | 27°26 | n.a. | T 15 |
| F 16 | 19 23 44 | 19°35'05 | 25°24 | 1♑24 | 18°40 | 15°40 | 5°33 | 24°51 | 23°27 | 28°23 | 22°44 | 13°26 | 14°37 | 27°32 | n.a. | F 16 |
| S 17 | 19 27 40 | 20°32'42 | 9♑26 | 3°13 | 19°52 | 16°19 | 5°46 | 24°55 | 23°30 | 28°25 | 22°45 | 13°17 | 14°34 | 27°39 | n.a. | S 17 |
| S 18 | 19 31 37 | 21°30'21 | 23°12 | 5° 0 | 21° 4 | 16°57 | 5°59 | 24°59 | 23°33 | 28°27 | 22°47 | 13° 9 | 14°30 | 27°46 | n.a. | S 18 |
| M19 | 19 35 33 | 22°28'01 | 6♒40 | 6°46 | 22°16 | 17°35 | 6°12 | 25° 4 | 23°37 | 28°29 | 22°48 | 13° 3 | 14°27 | 27°52 | n.a. | M19 |
| T 20 | 19 39 30 | 23°25'43 | 19°47 | 8°30 | 23°28 | 18°13 | 6°25 | 25° 8 | 23°40 | 28°32 | 22°50 | 12°58 | 14°24 | 27°59 | n.a. | T 20 |
| W21 | 19 43 26 | 24°23'26 | 2♓34 | 10°13 | 24°40 | 18°51 | 6°38 | 25°13 | 23°43 | 28°34 | 22°51 | 12°56 | 14°21 | 28° 6 | n.a. | W21 |
| T 22 | 19 47 23 | 25°21'11 | 15° 2 | 11°54 | 25°52 | 19°30 | 6°51 | 25°18 | 23°47 | 28°36 | 22°52 | 12°D55 | 14°18 | 28°12 | n.a. | T 22 |
| F 23 | 19 51 20 | 26°18'57 | 27°13 | 13°34 | 27° 4 | 20° 8 | 7° 4 | 25°22 | 23°50 | 28°38 | 22°54 | 12°56 | 14°15 | 28°19 | n.a. | F 23 |
| S 24 | 19 55 16 | 27°16'45 | 9♈13 | 15°12 | 28°17 | 20°46 | 7°17 | 25°27 | 23°54 | 28°40 | 22°55 | 12°57 | 14°11 | 28°26 | n.a. | S 24 |
| S 25 | 19 59 13 | 28°14'35 | 21° 6 | 16°49 | 29°29 | 21°24 | 7°30 | 25°32 | 23°57 | 28°43 | 22°57 | 12°59 | 14° 8 | 28°32 | n.a. | S 25 |
| M26 | 20 3 9 | 29°12'27 | 2♉56 | 18°25 | 0♋41 | 22° 2 | 7°43 | 25°37 | 24° 1 | 28°45 | 22°58 | 12°R59 | 14° 5 | 28°39 | n.a. | M26 |
| T 27 | 20 7 6 | 0♌10'21 | 14°50 | 20° 0 | 1°54 | 22°41 | 7°55 | 25°42 | 24° 4 | 28°47 | 22°59 | 12°58 | 14° 2 | 28°46 | n.a. | T 27 |
| W28 | 20 11 2 | 1° 8'17 | 26°51 | 21°33 | 3° 6 | 23°19 | 8° 8 | 25°47 | 24° 8 | 28°49 | 23° 0 | 12°55 | 13°59 | 28°52 | n.a. | W28 |
| T 29 | 20 14 59 | 2° 6'15 | 9♊ 5 | 23° 4 | 4°19 | 23°57 | 8°21 | 25°52 | 24°11 | 28°52 | 23° 2 | 12°50 | 13°55 | 28°59 | n.a. | T 29 |
| F 30 | 20 18 55 | 3° 4'14 | 21°34 | 24°35 | 5°32 | 24°35 | 8°34 | 25°57 | 24°15 | 28°54 | 23° 3 | 12°44 | 13°52 | 29° 6 | n.a. | F 30 |
| S 31 | 20 22 52 | 4♌ 2'16 | 4♋21 | 26♌ 3 | 6♋45 | 25♋14 | 8♋46 | 26♍ 2 | 24♌18 | 28♋56 | 23♊ 4 | 12♍37 | 13♍49 | 29♈12 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| T 1 | 23n36 | 15n47 | 4s54 | 25n 4 | 1n23 | 19n 7 | 1s28 | 24n35 | 1n 2 | 23n56 | 0n15 | 4n44 | 2n30 | 14n48 | 0n44 | 21n 7 | 0n18 | 23n15 | 0s13 | 6n 3 | 5n49 | 6n59 | | | n.a. |
| F 2 | 23 33 | 17 39 | 5 2 | 25 7 | 1 28 | 19 24 | 1 25 | 24 33 | 1 2 | 23 55 | 0 15 | 4 43 | 2 30 | 14 47 | 0 44 | 21 7 | 0 18 | 23 15 | 0 13 | 6 7 | 5 50 | 7 1 | | | n.a. |
| S 3 | 23 30 | 18 42 | 4 56 | 25 8 | 1 33 | 19 41 | 1 23 | 24 32 | 1 2 | 23 55 | 0 15 | 4 41 | 2 30 | 14 46 | 0 44 | 21 6 | 0 18 | 23 15 | 0 13 | 6 12 | 5 51 | 7 3 | | | n.a. |
| S 4 | 23 27 | 18 49 | 4 35 | 25 5 | 1 38 | 19 56 | 1 20 | 24 30 | 1 3 | 23 55 | 0 15 | 4 40 | 2 30 | 14 45 | 0 44 | 21 6 | 0 18 | 23 16 | 0 13 | 6 16 | 5 52 | 7 5 | | | n.a. |
| M 5 | 23 23 | 17 57 | 4 0 | 25 0 | 1 41 | 20 12 | 1 17 | 24 27 | 1 3 | 23 55 | 0 15 | 4 38 | 2 30 | 14 44 | 0 44 | 21 5 | 0 18 | 23 16 | 0 13 | 6 20 | 5 54 | 7 6 | | | n.a. |
| T 6 | 23 19 | 16 6 | 3 10 | 24 53 | 1 44 | 20 27 | 1 15 | 24 25 | 1 3 | 23 55 | 0 15 | 4 36 | 2 29 | 14 43 | 0 44 | 21 5 | 0 18 | 23 16 | 0 13 | 6 23 | 5 55 | 7 8 | | | n.a. |
| W 7 | 23 14 | 13 20 | 2 10 | 24 42 | 1 46 | 20 41 | 1 12 | 24 22 | 1 3 | 23 54 | 0 15 | 4 35 | 2 29 | 14 42 | 0 44 | 21 5 | 0 18 | 23 16 | 0 13 | 6 25 | 5 56 | 7 10 | | | n.a. |
| T 8 | 23 9 | 9 49 | 1 1 | 24 30 | 1 47 | 20 55 | 1 9 | 24 20 | 1 3 | 23 54 | 0 16 | 4 33 | 2 29 | 14 41 | 0 44 | 21 4 | 0 18 | 23 16 | 0 13 | 6 26 | 5 57 | 7 12 | | | n.a. |
| F 9 | 23 4 | 5 43 | 0n12 | 24 15 | 1 48 | 21 8 | 1 7 | 24 17 | 1 4 | 23 54 | 0 16 | 4 32 | 2 29 | 14 40 | 0 44 | 21 4 | 0 19 | 23 16 | 0 13 | 6 26 | 5 59 | 7 14 | | | n.a. |
| S 10 | 22 58 | 1 17 | 1 26 | 23 58 | 1 48 | 21 21 | 1 4 | 24 14 | 1 4 | 23 54 | 0 16 | 4 30 | 2 28 | 14 39 | 0 44 | 21 3 | 0 19 | 23 16 | 0 13 | 6 26 | 6 0 | 7 15 | | | n.a. |
| S 11 | 22 52 | 3s15 | 2 35 | 23 39 | 1 48 | 21 34 | 1 1 | 24 10 | 1 4 | 23 53 | 0 16 | 4 28 | 2 28 | 14 38 | 0 44 | 21 3 | 0 19 | 23 17 | 0 13 | 6 26 | 6 1 | 7 17 | | | n.a. |
| M12 | 22 45 | 7 38 | 3 35 | 23 18 | 1 46 | 21 45 | 0 58 | 24 7 | 1 4 | 23 53 | 0 16 | 4 26 | 2 28 | 14 37 | 0 44 | 21 2 | 0 19 | 23 17 | 0 13 | 6 26 | 6 2 | 7 19 | | | n.a. |
| T 13 | 22 38 | 11 37 | 4 22 | 22 55 | 1 45 | 21 56 | 0 55 | 24 3 | 1 5 | 23 52 | 0 16 | 4 25 | 2 28 | 14 36 | 0 44 | 21 2 | 0 19 | 23 17 | 0 13 | 6 27 | 6 4 | 7 21 | | | n.a. |
| W14 | 22 31 | 14 55 | 4 53 | 22 31 | 1 42 | 22 7 | 0 52 | 23 59 | 1 5 | 23 52 | 0 16 | 4 23 | 2 28 | 14 35 | 0 44 | 21 2 | 0 19 | 23 17 | 0 13 | 6 29 | 6 5 | 7 23 | | | n.a. |
| T 15 | 22 23 | 17 19 | 5 6 | 22 5 | 1 40 | 22 17 | 0 50 | 23 55 | 1 5 | 23 52 | 0 16 | 4 21 | 2 27 | 14 34 | 0 44 | 21 1 | 0 19 | 23 17 | 0 13 | 6 32 | 6 6 | 7 24 | | | n.a. |
| F 16 | 22 15 | 18 38 | 4 59 | 21 38 | 1 37 | 22 26 | 0 47 | 23 51 | 1 5 | 23 51 | 0 16 | 4 19 | 2 27 | 14 32 | 0 44 | 21 1 | 0 19 | 23 17 | 0 12 | 6 35 | 6 7 | 7 26 | | | n.a. |
| S 17 | 22 7 | 18 47 | 4 35 | 21 9 | 1 33 | 22 35 | 0 44 | 23 46 | 1 5 | 23 51 | 0 17 | 4 17 | 2 27 | 14 31 | 0 44 | 21 0 | 0 19 | 23 17 | 0 12 | 6 38 | 6 9 | 7 28 | | | n.a. |
| S 18 | 21 58 | 17 49 | 3 55 | 20 39 | 1 29 | 22 43 | 0 41 | 23 42 | 1 6 | 23 50 | 0 17 | 4 15 | 2 27 | 14 30 | 0 44 | 21 0 | 0 19 | 23 18 | 0 12 | 6 41 | 6 10 | 7 30 | | | n.a. |
| M19 | 21 48 | 15 52 | 3 3 | 20 8 | 1 24 | 22 50 | 0 38 | 23 37 | 1 6 | 23 50 | 0 17 | 4 13 | 2 27 | 14 29 | 0 44 | 20 59 | 0 19 | 23 18 | 0 12 | 6 44 | 6 11 | 7 32 | | | n.a. |
| T 20 | 21 38 | 13 7 | 2 1 | 19 37 | 1 19 | 22 57 | 0 35 | 23 32 | 1 6 | 23 49 | 0 17 | 4 11 | 2 26 | 14 28 | 0 44 | 20 59 | 0 19 | 23 18 | 0 12 | 6 46 | 6 12 | 7 33 | | | n.a. |
| W21 | 21 28 | 9 48 | 0 56 | 19 4 | 1 14 | 23 3 | 0 32 | 23 27 | 1 6 | 23 49 | 0 17 | 4 9 | 2 26 | 14 27 | 0 44 | 20 59 | 0 19 | 23 18 | 0 12 | 6 47 | 6 13 | 7 35 | | | n.a. |
| T 22 | 21 18 | 6 8 | 0s11 | 18 30 | 1 8 | 23 9 | 0 29 | 23 22 | 1 6 | 23 48 | 0 17 | 4 7 | 2 26 | 14 26 | 0 44 | 20 58 | 0 19 | 23 18 | 0 12 | 6 47 | 6 15 | 7 37 | | | n.a. |
| F 23 | 21 7 | 2 17 | 1 17 | 17 56 | 1 2 | 23 14 | 0 26 | 23 16 | 1 7 | 23 48 | 0 17 | 4 5 | 2 26 | 14 24 | 0 44 | 20 58 | 0 19 | 23 18 | 0 12 | 6 46 | 6 16 | 7 39 | | | n.a. |
| S 24 | 20 56 | 1n35 | 2 17 | 17 21 | 0 56 | 23 18 | 0 23 | 23 11 | 1 7 | 23 47 | 0 17 | 4 3 | 2 26 | 14 23 | 0 44 | 20 57 | 0 19 | 23 18 | 0 12 | 6 46 | 6 17 | 7 40 | | | n.a. |
| S 25 | 20 44 | 5 21 | 3 12 | 16 45 | 0 50 | 23 22 | 0 20 | 23 5 | 1 7 | 23 46 | 0 17 | 4 1 | 2 25 | 14 22 | 0 44 | 20 57 | 0 19 | 23 19 | 0 12 | 6 45 | 6 18 | 7 42 | | | n.a. |
| M26 | 20 32 | 8 54 | 3 58 | 16 9 | 0 43 | 23 24 | 0 17 | 22 59 | 1 7 | 23 46 | 0 18 | 3 59 | 2 25 | 14 21 | 0 44 | 20 56 | 0 19 | 23 19 | 0 12 | 6 45 | 6 20 | 7 44 | | | n.a. |
| T 27 | 20 20 | 12 6 | 4 34 | 15 33 | 0 36 | 23 27 | 0 15 | 22 53 | 1 7 | 23 45 | 0 18 | 3 57 | 2 25 | 14 20 | 0 44 | 20 56 | 0 19 | 23 19 | 0 12 | 6 46 | 6 21 | 7 46 | | | n.a. |
| W28 | 20 7 | 14 50 | 4 58 | 14 56 | 0 29 | 23 28 | 0 12 | 22 46 | 1 8 | 23 44 | 0 18 | 3 54 | 2 25 | 14 18 | 0 44 | 20 55 | 0 19 | 23 19 | 0 12 | 6 47 | 6 22 | 7 48 | | | n.a. |
| T 29 | 19 54 | 16 57 | 5 9 | 14 19 | 0 21 | 23 29 | 0 9 | 22 40 | 1 8 | 23 44 | 0 18 | 3 52 | 2 25 | 14 17 | 0 44 | 20 55 | 0 19 | 23 19 | 0 12 | 6 49 | 6 23 | 7 49 | | | n.a. |
| F 30 | 19 41 | 18 20 | 5 6 | 13 41 | 0 14 | 23 29 | 0 6 | 22 33 | 1 8 | 23 43 | 0 18 | 3 50 | 2 25 | 14 16 | 0 44 | 20 54 | 0 19 | 23 19 | 0 12 | 6 51 | 6 25 | 7 51 | | | n.a. |
| S 31 | 19n27 | 18n49 | 4s48 | 13n 4 | 0n 6 | 23n29 | 0s 3 | 22n26 | 1n 8 | 23n42 | 0n18 | 3n48 | 2n24 | 14n15 | 0n44 | 20n54 | 0n19 | 23n19 | 0s12 | 6n54 | 6n26 | 7n53 | | | n.a. |

Julian Day Number = 1702976.5, Delta T = 03h04m37s
Ecliptic obliquity = 23°41'54, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°45'38, Lahiri = - 4°38'38 Julian Calendar 1 July 51 BCE == Greg. Calendar 29 June 051 BCE

The year -50 astronomical counting style corresponds to year 051 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 51 BCE
# geocentric

## AUGUST 51 BCE (-50) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 26 49 | 5♌ 0'19 | 17♋26 | 27♌31 | 7♋57 | 25♋52 | 8♋59 | 26♍ 8 | 24♌22 | 28♋58 | 23♊ 6 | 12°R31 | 13♍46 | 29♈19 | n.a. | S 1 |
| M 2 | 20 30 45 | 5°58'24 | 0♌50 | 28°57 | 9°10 | 26°30 | 9°11 | 26°13 | 24°26 | 29° 1 | 23° 7 | 12♍25 | 13°43 | 29°26 | n.a. | M 2 |
| T 3 | 20 34 42 | 6°56'31 | 14°30 | 0♍22 | 10°23 | 27° 8 | 9°24 | 26°19 | 24°29 | 29° 3 | 23° 8 | 12°21 | 13°40 | 29°33 | n.a. | T 3 |
| W 4 | 20 38 38 | 7°54'40 | 28°24 | 1°45 | 11°36 | 27°46 | 9°36 | 26°24 | 24°33 | 29° 5 | 23° 9 | 12°19 | 13°36 | 29°39 | n.a. | W 4 |
| T 5 | 20 42 35 | 8°52'50 | 12♍28 | 3° 7 | 12°49 | 28°25 | 9°49 | 26°30 | 24°37 | 29° 7 | 23°10 | 12°D18 | 13°33 | 29°46 | n.a. | T 5 |
| F 6 | 20 46 31 | 9°51'02 | 26°38 | 4°27 | 14° 2 | 29° 3 | 10° 1 | 26°35 | 24°40 | 29° 9 | 23°12 | 12°19 | 13°30 | 29°53 | n.a. | F 6 |
| S 7 | 20 50 28 | 10°49'16 | 10♎52 | 5°46 | 15°15 | 29°41 | 10°14 | 26°41 | 24°44 | 29°12 | 23°13 | 12°20 | 13°27 | 29°59 | n.a. | S 7 |
| S 8 | 20 54 24 | 11°47'31 | 25° 7 | 7° 3 | 16°28 | 0♌19 | 10°26 | 26°47 | 24°48 | 29°14 | 23°14 | 12°21 | 13°24 | 0♉ 6 | n.a. | S 8 |
| M 9 | 20 58 21 | 12°45'48 | 9♏20 | 8°18 | 17°42 | 0°57 | 10°38 | 26°52 | 24°51 | 29°16 | 23°15 | 12°R22 | 13°21 | 0°13 | n.a. | M 9 |
| T 10 | 21 2 17 | 13°44'06 | 23°29 | 9°32 | 18°55 | 1°35 | 10°50 | 26°58 | 24°55 | 29°18 | 23°16 | 12°22 | 13°17 | 0°19 | n.a. | T 10 |
| W11 | 21 6 14 | 14°42'26 | 7♐33 | 10°44 | 20° 8 | 2°14 | 11° 2 | 27° 4 | 24°59 | 29°20 | 23°17 | 12°20 | 13°14 | 0°26 | n.a. | W11 |
| T 12 | 21 10 11 | 15°40'48 | 21°29 | 11°54 | 21°22 | 2°52 | 11°14 | 27°10 | 25° 3 | 29°22 | 23°18 | 12°18 | 13°11 | 0°33 | n.a. | T 12 |
| F 13 | 21 14 7 | 16°39'11 | 5♑15 | 13° 2 | 22°35 | 3°30 | 11°26 | 27°16 | 25° 6 | 29°25 | 23°19 | 12°14 | 13° 8 | 0°39 | n.a. | F 13 |
| S 14 | 21 18 4 | 17°37'36 | 18°50 | 14° 7 | 23°49 | 4° 8 | 11°38 | 27°22 | 25°10 | 29°27 | 23°20 | 12°10 | 13° 5 | 0°46 | n.a. | S 14 |
| S 15 | 21 22 0 | 18°36'03 | 2♒11 | 15°11 | 25° 2 | 4°46 | 11°50 | 27°28 | 25°14 | 29°29 | 23°21 | 12° 7 | 13° 1 | 0°53 | n.a. | S 15 |
| M16 | 21 25 57 | 19°34'32 | 15°17 | 16°12 | 26°16 | 5°25 | 12° 2 | 27°34 | 25°18 | 29°31 | 23°22 | 12° 4 | 12°58 | 0°59 | n.a. | M16 |
| T 17 | 21 29 53 | 20°33'03 | 28° 7 | 17°11 | 27°30 | 6° 3 | 12°14 | 27°41 | 25°21 | 29°33 | 23°23 | 12° 2 | 12°55 | 1° 6 | n.a. | T 17 |
| W18 | 21 33 50 | 21°31'35 | 10♓42 | 18° 7 | 28°43 | 6°41 | 12°25 | 27°47 | 25°25 | 29°35 | 23°24 | 12°D 2 | 12°52 | 1°13 | n.a. | W18 |
| T 19 | 21 37 46 | 22°30'10 | 23° 2 | 19° 0 | 29°57 | 7°19 | 12°37 | 27°53 | 25°29 | 29°37 | 23°25 | 12° 2 | 12°49 | 1°20 | n.a. | T 19 |
| F 20 | 21 41 43 | 23°28'47 | 5♈10 | 19°50 | 1♌11 | 7°57 | 12°48 | 27°59 | 25°33 | 29°39 | 23°26 | 12° 3 | 12°46 | 1°26 | n.a. | F 20 |
| S 21 | 21 45 40 | 24°27'26 | 17° 8 | 20°37 | 2°25 | 8°35 | 13° 0 | 28° 6 | 25°37 | 29°41 | 23°27 | 12° 5 | 12°42 | 1°33 | n.a. | S 21 |
| S 22 | 21 49 36 | 25°26'08 | 29° 1 | 21°20 | 3°39 | 9°14 | 13°11 | 28°12 | 25°40 | 29°44 | 23°28 | 12° 6 | 12°39 | 1°40 | n.a. | S 22 |
| M23 | 21 53 33 | 26°24'51 | 10♉51 | 22° 0 | 4°53 | 9°52 | 13°23 | 28°19 | 25°44 | 29°46 | 23°29 | 12° 7 | 12°36 | 1°46 | n.a. | M23 |
| T 24 | 21 57 29 | 27°23'38 | 22°44 | 22°35 | 6° 7 | 10°30 | 13°34 | 28°25 | 25°48 | 29°48 | 23°29 | 12°R 8 | 12°33 | 1°53 | n.a. | T 24 |
| W25 | 22 1 26 | 28°22'26 | 4♊45 | 23° 6 | 7°21 | 11° 8 | 13°45 | 28°32 | 25°52 | 29°50 | 23°30 | 12° 8 | 12°30 | 2° 0 | n.a. | W25 |
| T 26 | 22 5 22 | 29°21'17 | 16°58 | 23°31 | 8°35 | 11°47 | 13°56 | 28°38 | 25°55 | 29°52 | 23°31 | 12° 7 | 12°27 | 2° 6 | n.a. | T 26 |
| F 27 | 22 9 19 | 0♍20'10 | 29°28 | 23°52 | 9°49 | 12°25 | 14° 7 | 28°45 | 25°59 | 29°54 | 23°32 | 12° 6 | 12°23 | 2°13 | n.a. | F 27 |
| S 28 | 22 13 15 | 1°19'06 | 12♋17 | 24° 7 | 11° 3 | 13° 3 | 14°18 | 28°51 | 26° 3 | 29°56 | 23°32 | 12° 5 | 12°20 | 2°20 | n.a. | S 28 |
| S 29 | 22 17 12 | 2°18'04 | 25°29 | 24°16 | 12°18 | 13°41 | 14°29 | 28°58 | 26° 7 | 29°58 | 23°33 | 12° 3 | 12°17 | 2°26 | n.a. | S 29 |
| M30 | 22 21 9 | 3°17'04 | 9♌ 4 | 24°R18 | 13°32 | 14°19 | 14°40 | 29° 5 | 26°11 | 29°59 | 23°34 | 12° 2 | 12°14 | 2°33 | n.a. | M30 |
| T 31 | 22 25 5 | 4♍16'06 | 23♌ 1 | 24♍14 | 14♌46 | 14♌58 | 14♋50 | 29♍11 | 26♌14 | 0♌ 1 | 23♊35 | 12♍ 1 | 12♍11 | 2♉40 | n.a. | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | | decl | lat |
| S 1 | 19n13 | 18n20 | 4s15 | 12n26 | 0s 2 | 23n27 | 0s 0 | 22n19 | 1n 8 | 23n42 | 0n18 | 3n45 | 2n24 | 14n14 | 0n44 | 20n54 | 0n19 | 23n19 | 0s12 | 6n56 | 6n27 | 7n55 | | | n.a. |
| M 2 | 18 59 | 16 50 | 3 27 | 11 48 | 0 10 | 23 25 | 0n 3 | 22 12 | 1 8 | 23 41 | 0 18 | 3 43 | 2 24 | 14 12 | 0 44 | 20 53 | 0 19 | 23 20 | 0 11 | 6 58 | 6 28 | 7 57 | | | n.a. |
| T 3 | 18 44 | 14 20 | 2 26 | 11 10 | 0 19 | 23 23 | 0 5 | 22 5 | 1 9 | 23 40 | 0 18 | 3 41 | 2 24 | 14 11 | 0 44 | 20 53 | 0 19 | 23 20 | 0 11 | 7 0 | 6 30 | 7 58 | | | n.a. |
| W 4 | 18 29 | 10 59 | 1 15 | 10 33 | 0 27 | 23 19 | 0 8 | 21 57 | 1 9 | 23 39 | 0 19 | 3 38 | 2 24 | 14 10 | 0 44 | 20 52 | 0 19 | 23 20 | 0 11 | 7 1 | 6 31 | 8 0 | | | n.a. |
| T 5 | 18 14 | 6 58 | 0n 1 | 9 55 | 0 36 | 23 15 | 0 11 | 21 50 | 1 9 | 23 39 | 0 19 | 3 36 | 2 24 | 14 9 | 0 44 | 20 52 | 0 19 | 23 20 | 0 11 | 7 1 | 6 32 | 8 2 | | | n.a. |
| F 6 | 17 58 | 2 32 | 1 18 | 9 18 | 0 44 | 23 11 | 0 14 | 21 42 | 1 9 | 23 38 | 0 19 | 3 34 | 2 23 | 14 7 | 0 44 | 20 51 | 0 19 | 23 20 | 0 11 | 7 1 | 6 33 | 8 4 | | | n.a. |
| S 7 | 17 42 | 2s 3 | 2 30 | 8 41 | 0 53 | 23 5 | 0 16 | 21 34 | 1 9 | 23 37 | 0 19 | 3 31 | 2 23 | 14 6 | 0 44 | 20 51 | 0 19 | 23 20 | 0 11 | 7 0 | 6 34 | 8 5 | | | n.a. |
| S 8 | 17 26 | 6 31 | 3 33 | 8 4 | 1 2 | 22 59 | 0 19 | 21 26 | 1 9 | 23 36 | 0 19 | 3 29 | 2 23 | 14 5 | 0 44 | 20 50 | 0 19 | 23 20 | 0 11 | 7 0 | 6 36 | 8 7 | | | n.a. |
| M 9 | 17 10 | 10 36 | 4 23 | 7 27 | 1 11 | 22 52 | 0 22 | 21 18 | 1 10 | 23 35 | 0 19 | 3 26 | 2 23 | 14 4 | 0 44 | 20 50 | 0 19 | 23 20 | 0 11 | 7 0 | 6 37 | 8 9 | | | n.a. |
| T 10 | 16 53 | 14 3 | 4 57 | 6 51 | 1 20 | 22 45 | 0 24 | 21 9 | 1 10 | 23 34 | 0 19 | 3 24 | 2 23 | 14 2 | 0 44 | 20 50 | 0 19 | 23 21 | 0 11 | 7 0 | 6 38 | 8 11 | | | n.a. |
| W11 | 16 36 | 16 40 | 5 13 | 6 16 | 1 28 | 22 37 | 0 27 | 21 1 | 1 10 | 23 33 | 0 19 | 3 21 | 2 23 | 14 1 | 0 44 | 20 49 | 0 19 | 23 21 | 0 11 | 7 0 | 6 39 | 8 13 | | | n.a. |
| T 12 | 16 19 | 18 16 | 5 10 | 5 41 | 1 37 | 22 28 | 0 29 | 20 52 | 1 10 | 23 33 | 0 20 | 3 19 | 2 23 | 14 0 | 0 44 | 20 49 | 0 19 | 23 21 | 0 11 | 7 1 | 6 41 | 8 14 | | | n.a. |
| F 13 | 16 1 | 18 47 | 4 49 | 5 6 | 1 46 | 22 19 | 0 32 | 20 43 | 1 10 | 23 32 | 0 20 | 3 16 | 2 22 | 13 59 | 0 44 | 20 48 | 0 19 | 23 21 | 0 11 | 7 3 | 6 42 | 8 16 | | | n.a. |
| S 14 | 15 43 | 18 12 | 4 12 | 4 33 | 1 55 | 22 8 | 0 34 | 20 34 | 1 10 | 23 31 | 0 20 | 3 14 | 2 22 | 13 57 | 0 44 | 20 48 | 0 19 | 23 21 | 0 11 | 7 4 | 6 43 | 8 18 | | | n.a. |
| S 15 | 15 25 | 16 37 | 3 22 | 4 0 | 2 4 | 21 58 | 0 37 | 20 25 | 1 10 | 23 30 | 0 20 | 3 11 | 2 22 | 13 56 | 0 44 | 20 47 | 0 19 | 23 21 | 0 11 | 7 5 | 6 44 | 8 20 | | | n.a. |
| M16 | 15 6 | 14 10 | 2 22 | 3 28 | 2 13 | 21 46 | 0 39 | 20 16 | 1 11 | 23 29 | 0 20 | 3 9 | 2 22 | 13 55 | 0 44 | 20 47 | 0 19 | 23 21 | 0 11 | 7 7 | 6 46 | 8 21 | | | n.a. |
| T 17 | 14 48 | 11 4 | 1 16 | 2 57 | 2 21 | 21 34 | 0 42 | 20 6 | 1 11 | 23 28 | 0 20 | 3 6 | 2 22 | 13 53 | 0 44 | 20 46 | 0 19 | 23 21 | 0 11 | 7 7 | 6 47 | 8 23 | | | n.a. |
| W18 | 14 29 | 7 31 | 0 7 | 2 27 | 2 30 | 21 21 | 0 44 | 19 57 | 1 11 | 23 27 | 0 20 | 3 3 | 2 22 | 13 52 | 0 44 | 20 46 | 0 19 | 23 21 | 0 11 | 7 7 | 6 48 | 8 25 | | | n.a. |
| T 19 | 14 10 | 3 43 | 1s 0 | 1 59 | 2 38 | 21 8 | 0 46 | 19 47 | 1 11 | 23 26 | 0 21 | 3 1 | 2 22 | 13 51 | 0 44 | 20 46 | 0 19 | 23 22 | 0 10 | 7 7 | 6 49 | 8 27 | | | n.a. |
| F 20 | 13 50 | 0n10 | 2 4 | 1 31 | 2 46 | 20 54 | 0 48 | 19 37 | 1 11 | 23 25 | 0 21 | 2 58 | 2 21 | 13 50 | 0 44 | 20 45 | 0 19 | 23 22 | 0 10 | 7 7 | 6 50 | 8 28 | | | n.a. |
| S 21 | 13 31 | 4 0 | 3 2 | 1 6 | 2 54 | 20 39 | 0 50 | 19 27 | 1 11 | 23 24 | 0 21 | 2 55 | 2 21 | 13 48 | 0 44 | 20 45 | 0 19 | 23 22 | 0 10 | 7 6 | 6 52 | 8 30 | | | n.a. |
| S 22 | 13 11 | 7 38 | 3 51 | 0 42 | 3 1 | 20 24 | 0 53 | 19 17 | 1 11 | 23 23 | 0 21 | 2 53 | 2 21 | 13 47 | 0 44 | 20 44 | 0 19 | 23 22 | 0 10 | 7 6 | 6 53 | 8 32 | | | n.a. |
| M23 | 12 51 | 10 57 | 4 31 | 0 19 | 3 9 | 20 8 | 0 55 | 19 7 | 1 12 | 23 22 | 0 21 | 2 50 | 2 21 | 13 46 | 0 44 | 20 44 | 0 19 | 23 22 | 0 10 | 7 5 | 6 54 | 8 34 | | | n.a. |
| T 24 | 12 30 | 13 50 | 4 59 | 0s 1 | 3 15 | 19 52 | 0 57 | 18 57 | 1 12 | 23 21 | 0 21 | 2 47 | 2 21 | 13 44 | 0 44 | 20 44 | 0 19 | 23 22 | 0 10 | 7 5 | 6 55 | 8 36 | | | n.a. |
| W25 | 12 10 | 16 10 | 5 14 | 0 19 | 3 22 | 19 35 | 0 59 | 18 46 | 1 12 | 23 20 | 0 21 | 2 45 | 2 21 | 13 43 | 0 44 | 20 43 | 0 19 | 23 22 | 0 10 | 7 5 | 6 57 | 8 37 | | | n.a. |
| T 26 | 11 49 | 17 49 | 5 16 | 0 34 | 3 28 | 19 17 | 1 0 | 18 35 | 1 12 | 23 19 | 0 22 | 2 42 | 2 21 | 13 42 | 0 44 | 20 43 | 0 19 | 23 22 | 0 10 | 7 5 | 6 58 | 8 39 | | | n.a. |
| F 27 | 11 28 | 18 40 | 5 2 | 0 47 | 3 33 | 18 59 | 1 2 | 18 25 | 1 12 | 23 18 | 0 22 | 2 39 | 2 21 | 13 41 | 0 44 | 20 42 | 0 19 | 23 22 | 0 10 | 7 6 | 6 59 | 8 41 | | | n.a. |
| S 28 | 11 7 | 18 35 | 4 34 | 0 57 | 3 37 | 18 40 | 1 4 | 18 14 | 1 12 | 23 17 | 0 22 | 2 36 | 2 21 | 13 39 | 0 44 | 20 42 | 0 19 | 23 22 | 0 10 | 7 6 | 7 0 | 8 43 | | | n.a. |
| S 29 | 10 46 | 17 30 | 3 50 | 1 4 | 3 41 | 18 21 | 1 6 | 18 3 | 1 12 | 23 16 | 0 22 | 2 34 | 2 21 | 13 38 | 0 44 | 20 41 | 0 19 | 23 23 | 0 10 | 7 7 | 7 2 | 8 44 | | | n.a. |
| M30 | 10 25 | 15 24 | 2 53 | 1 8 | 3 44 | 18 1 | 1 7 | 17 52 | 1 12 | 23 15 | 0 22 | 2 31 | 2 20 | 13 37 | 0 44 | 20 41 | 0 19 | 23 23 | 0 10 | 7 7 | 7 3 | 8 46 | | | n.a. |
| T 31 | 10n 3 | 12n22 | 1s44 | 1s 7 | 3s45 | 17n41 | 1n 9 | 17n40 | 1n12 | 23n14 | 0n22 | 2n28 | 2n20 | 13n35 | 0n44 | 20n41 | 0n19 | 23n23 | 0s10 | 7n 8 | 7n 4 | 8n48 | | | n.a. |

Julian Day Number = 1703007.5, Delta T = 03h04m36s
Ecliptic obliquity = 23°41'55, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°45'34, Lahiri = - 4°38'34 Julian Calendar 1 Aug. 51 BCE == Greg. Calendar 30 July 051 BCE

The year -50 astronomical counting style corresponds to year 051 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 51 BCE
# geocentric

## SEPTEMBER 51 BCE (-50) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 22 29 2 | 5♍15'11 | 7♍17 | 24°R 2 | 16♌ 1 | 15♌36 | 15♋ 1 | 29♍18 | 26♌18 | 0♌ 3 | 23♊35 | 12°D 1 | 12♍ 7 | 2♉46 | n.a. | W 1 |
| T 2 | 22 32 58 | 6°14'17 | 21°47 | 23♍43 | 17°15 | 16°14 | 15°12 | 29°25 | 26°22 | 0° 5 | 23°36 | 12♍ 1 | 12° 4 | 2°53 | n.a. | T 2 |
| F 3 | 22 36 55 | 7°13'26 | 6♎25 | 23°16 | 18°30 | 16°52 | 15°22 | 29°32 | 26°25 | 0° 7 | 23°36 | 12° 1 | 12° 1 | 3° 0 | n.a. | F 3 |
| S 4 | 22 40 51 | 8°12'36 | 21° 5 | 22°42 | 19°44 | 17°31 | 15°32 | 29°39 | 26°29 | 0° 9 | 23°37 | 12° 2 | 11°58 | 3° 7 | n.a. | S 4 |
| S 5 | 22 44 48 | 9°11'49 | 5♏41 | 22° 0 | 20°59 | 18° 9 | 15°43 | 29°45 | 26°33 | 0°11 | 23°38 | 12° 2 | 11°55 | 3°13 | n.a. | S 5 |
| M 6 | 22 48 44 | 10°11'03 | 20° 8 | 21°10 | 22°13 | 18°47 | 15°53 | 29°52 | 26°37 | 0°13 | 23°38 | 12° 2 | 11°52 | 3°20 | n.a. | M 6 |
| T 7 | 22 52 41 | 11°10'20 | 4♐22 | 20°14 | 23°28 | 19°25 | 16° 3 | 29°59 | 26°40 | 0°14 | 23°39 | 12° 2 | 11°48 | 3°27 | n.a. | T 7 |
| W 8 | 22 56 37 | 12° 9'38 | 18°21 | 19°12 | 24°43 | 20° 4 | 16°13 | 0♎ 6 | 26°44 | 0°16 | 23°39 | 12° 2 | 11°45 | 3°33 | n.a. | W 8 |
| T 9 | 23 0 34 | 13° 8'58 | 2♑ 4 | 18° 5 | 25°57 | 20°42 | 16°23 | 0°13 | 26°48 | 0°18 | 23°40 | 12° 2 | 11°42 | 3°40 | n.a. | T 9 |
| F 10 | 23 4 31 | 14° 8'20 | 15°31 | 16°55 | 27°12 | 21°20 | 16°32 | 0°20 | 26°51 | 0°20 | 23°40 | 12° 3 | 11°39 | 3°47 | n.a. | F 10 |
| S 11 | 23 8 27 | 15° 7'44 | 28°42 | 15°44 | 28°27 | 21°58 | 16°42 | 0°27 | 26°55 | 0°21 | 23°40 | 12° 3 | 11°36 | 3°53 | n.a. | S 11 |
| S 12 | 23 12 24 | 16° 7'09 | 11♒39 | 14°33 | 29°42 | 22°37 | 16°51 | 0°34 | 26°59 | 0°23 | 23°41 | 12° 3 | 11°32 | 4° 0 | n.a. | S 12 |
| M13 | 23 16 20 | 17° 6'37 | 24°23 | 13°24 | 0♍56 | 23°15 | 17° 1 | 0°41 | 27° 2 | 0°25 | 23°41 | 12° 4 | 11°29 | 4° 7 | n.a. | M13 |
| T 14 | 23 20 17 | 18° 6'06 | 6♓54 | 12°20 | 2°11 | 23°53 | 17°10 | 0°48 | 27° 6 | 0°26 | 23°41 | 12°R 4 | 11°26 | 4°14 | n.a. | T 14 |
| W15 | 23 24 13 | 19° 5'38 | 19°14 | 11°23 | 3°26 | 24°31 | 17°19 | 0°55 | 27° 9 | 0°28 | 23°42 | 12° 4 | 11°23 | 4°20 | n.a. | W15 |
| T 16 | 23 28 10 | 20° 5'12 | 1♈24 | 10°33 | 4°41 | 25°10 | 17°28 | 1° 2 | 27°13 | 0°30 | 23°42 | 12° 3 | 11°20 | 4°27 | n.a. | T 16 |
| F 17 | 23 32 6 | 21° 4'48 | 13°25 | 9°52 | 5°56 | 25°48 | 17°37 | 1° 9 | 27°17 | 0°31 | 23°42 | 12° 3 | 11°17 | 4°34 | n.a. | F 17 |
| S 18 | 23 36 3 | 22° 4'26 | 25°20 | 9°22 | 7°11 | 26°26 | 17°46 | 1°17 | 27°20 | 0°33 | 23°43 | 12° 1 | 11°13 | 4°40 | n.a. | S 18 |
| S 19 | 23 39 59 | 23° 4'06 | 7♉12 | 9° 2 | 8°26 | 27° 5 | 17°55 | 1°24 | 27°24 | 0°34 | 23°43 | 12° 0 | 11°10 | 4°47 | n.a. | S 19 |
| M20 | 23 43 56 | 24° 3'49 | 19° 2 | 8°D54 | 9°41 | 27°43 | 18° 4 | 1°31 | 27°27 | 0°36 | 23°43 | 11°58 | 11° 7 | 4°54 | n.a. | M20 |
| T 21 | 23 47 53 | 25° 3'34 | 0♊54 | 8°57 | 10°56 | 28°21 | 18°12 | 1°38 | 27°31 | 0°37 | 23°43 | 11°56 | 11° 4 | 5° 0 | n.a. | T 21 |
| W22 | 23 51 49 | 26° 3'21 | 12°54 | 9°11 | 12°11 | 28°59 | 18°21 | 1°45 | 27°34 | 0°39 | 23°43 | 11°55 | 11° 1 | 5° 7 | n.a. | W22 |
| T 23 | 23 55 46 | 27° 3'10 | 25° 4 | 9°35 | 13°26 | 29°38 | 18°29 | 1°52 | 27°37 | 0°40 | 23°43 | 11°D55 | 10°58 | 5°14 | n.a. | T 23 |
| F 24 | 23 59 42 | 28° 3'02 | 7♋29 | 10° 9 | 14°42 | 0♍16 | 18°37 | 2° 0 | 27°41 | 0°41 | 23°44 | 11°55 | 10°54 | 5°20 | n.a. | F 24 |
| S 25 | 0 3 39 | 29° 2'57 | 20°14 | 10°51 | 15°57 | 0°54 | 18°45 | 2° 7 | 27°44 | 0°43 | 23°44 | 11°56 | 10°51 | 5°27 | n.a. | S 25 |
| S 26 | 0 7 35 | 0♎ 2'53 | 3♌22 | 11°42 | 17°12 | 1°33 | 18°53 | 2°14 | 27°48 | 0°44 | 23°44 | 11°57 | 10°48 | 5°34 | n.a. | S 26 |
| M27 | 0 11 32 | 1° 2'52 | 16°56 | 12°40 | 18°27 | 2°11 | 19° 1 | 2°21 | 27°51 | 0°45 | 23°R44 | 11°59 | 10°45 | 5°41 | n.a. | M27 |
| T 28 | 0 15 28 | 2° 2'53 | 0♍57 | 13°45 | 19°42 | 2°50 | 19° 8 | 2°28 | 27°54 | 0°47 | 23°44 | 12° 0 | 10°42 | 5°47 | n.a. | T 28 |
| W29 | 0 19 25 | 3° 2'56 | 15°23 | 14°55 | 20°58 | 3°28 | 19°16 | 2°35 | 27°58 | 0°48 | 23°44 | 12°R 0 | 10°38 | 5°54 | n.a. | W29 |
| T 30 | 0 23 22 | 4♎ 3'01 | 0♎10 | 16♍10 | 22♍13 | 4♍ 6 | 19♋23 | 2♎43 | 28♌ 1 | 0♌49 | 23♊44 | 11♍59 | 10♍35 | 6♉ 1 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 9n41 | 8n31 | 0s26 | 1s 3 | 3s46 | 17n20 | 1n11 | 17n29 | 1n12 | 23n13 | 0n22 | 2n25 | 2n20 | 13n34 | 0n44 | 20n40 | 0n19 | 23n23 | 0s10 | 7n 8 | 7n 5 | 8n50 | | n.a. |
| T 2 | 9 19 | 4 7 | 0n54 | 0 55 | 3 45 | 16 59 | 1 12 | 17 18 | 1 13 | 23 12 | 0 23 | 2 23 | 2 20 | 13 33 | 0 44 | 20 40 | 0 19 | 23 23 | 0 10 | 7 8 | 7 6 | 8 51 | | n.a. |
| F 3 | 8 57 | 0s34 | 2 11 | 0 42 | 3 42 | 16 37 | 1 14 | 17 6 | 1 13 | 23 11 | 0 23 | 2 20 | 2 20 | 13 32 | 0 44 | 20 40 | 0 19 | 23 23 | 0 10 | 7 8 | 7 8 | 8 53 | | n.a. |
| S 4 | 8 35 | 5 13 | 3 20 | 0 25 | 3 38 | 16 14 | 1 15 | 16 54 | 1 13 | 23 10 | 0 23 | 2 17 | 2 20 | 13 30 | 0 44 | 20 39 | 0 19 | 23 23 | 0 10 | 7 7 | 7 9 | 8 55 | | n.a. |
| S 5 | 8 12 | 9 32 | 4 16 | 0 3 | 3 33 | 15 52 | 1 16 | 16 43 | 1 13 | 23 9 | 0 23 | 2 14 | 2 20 | 13 29 | 0 44 | 20 39 | 0 19 | 23 23 | 0 9 | 7 7 | 7 10 | 8 57 | | n.a. |
| M 6 | 7 50 | 13 14 | 4 55 | 0n24 | 3 25 | 15 28 | 1 17 | 16 31 | 1 13 | 23 8 | 0 23 | 2 11 | 2 20 | 13 28 | 0 44 | 20 38 | 0 19 | 23 23 | 0 9 | 7 7 | 7 11 | 8 58 | | n.a. |
| T 7 | 7 27 | 16 5 | 5 15 | 0 55 | 3 15 | 15 5 | 1 19 | 16 19 | 1 13 | 23 7 | 0 23 | 2 8 | 2 20 | 13 26 | 0 44 | 20 38 | 0 19 | 23 23 | 0 9 | 7 7 | 7 13 | 9 0 | | n.a. |
| W 8 | 7 4 | 17 56 | 5 16 | 1 30 | 3 4 | 14 41 | 1 20 | 16 6 | 1 13 | 23 5 | 0 23 | 2 6 | 2 20 | 13 25 | 0 44 | 20 38 | 0 19 | 23 23 | 0 9 | 7 7 | 7 14 | 9 2 | | n.a. |
| T 9 | 6 41 | 18 43 | 4 58 | 2 9 | 2 50 | 14 16 | 1 21 | 15 54 | 1 13 | 23 4 | 0 24 | 2 3 | 2 20 | 13 24 | 0 44 | 20 37 | 0 19 | 23 23 | 0 9 | 7 7 | 7 15 | 9 4 | | n.a. |
| F 10 | 6 18 | 18 24 | 4 25 | 2 51 | 2 35 | 13 51 | 1 22 | 15 42 | 1 13 | 23 3 | 0 24 | 2 0 | 2 20 | 13 23 | 0 44 | 20 37 | 0 19 | 23 24 | 0 9 | 7 7 | 7 16 | 9 5 | | n.a. |
| S 11 | 5 55 | 17 5 | 3 38 | 3 34 | 2 18 | 13 26 | 1 23 | 15 29 | 1 13 | 23 2 | 0 24 | 1 57 | 2 20 | 13 21 | 0 44 | 20 37 | 0 19 | 23 24 | 0 9 | 7 7 | 7 17 | 9 7 | | n.a. |
| S 12 | 5 32 | 14 54 | 2 41 | 4 19 | 2 0 | 13 0 | 1 23 | 15 17 | 1 13 | 23 1 | 0 24 | 1 54 | 2 20 | 13 20 | 0 44 | 20 36 | 0 19 | 23 24 | 0 9 | 7 7 | 7 19 | 9 9 | | n.a. |
| M13 | 5 9 | 12 1 | 1 37 | 5 3 | 1 40 | 12 34 | 1 24 | 15 4 | 1 13 | 23 0 | 0 24 | 1 51 | 2 20 | 13 19 | 0 44 | 20 36 | 0 19 | 23 24 | 0 9 | 7 7 | 7 20 | 9 11 | | n.a. |
| T 14 | 4 45 | 8 38 | 0 29 | 5 46 | 1 20 | 12 8 | 1 25 | 14 51 | 1 13 | 22 59 | 0 24 | 1 48 | 2 20 | 13 18 | 0 44 | 20 36 | 0 19 | 23 24 | 0 9 | 7 7 | 7 21 | 9 12 | | n.a. |
| W15 | 4 22 | 4 55 | 0s40 | 6 27 | 1 0 | 11 41 | 1 26 | 14 39 | 1 14 | 22 58 | 0 25 | 1 46 | 2 20 | 13 16 | 0 44 | 20 35 | 0 20 | 23 24 | 0 9 | 7 7 | 7 22 | 9 14 | | n.a. |
| T 16 | 3 58 | 1 3 | 1 45 | 7 5 | 0 39 | 11 14 | 1 26 | 14 26 | 1 14 | 22 57 | 0 25 | 1 43 | 2 19 | 13 15 | 0 44 | 20 35 | 0 20 | 23 24 | 0 9 | 7 7 | 7 24 | 9 16 | | n.a. |
| F 17 | 3 34 | 2n49 | 2 45 | 7 39 | 0 19 | 10 46 | 1 27 | 14 13 | 1 14 | 22 56 | 0 25 | 1 40 | 2 19 | 13 14 | 0 44 | 20 35 | 0 20 | 23 24 | 0 9 | 7 7 | 7 25 | 9 18 | | n.a. |
| S 18 | 3 11 | 6 32 | 3 38 | 8 9 | 0 0 | 10 19 | 1 27 | 14 0 | 1 14 | 22 55 | 0 25 | 1 37 | 2 19 | 13 13 | 0 44 | 20 34 | 0 20 | 23 24 | 0 9 | 7 8 | 7 26 | 9 19 | | n.a. |
| S 19 | 2 47 | 9 58 | 4 20 | 8 33 | 0n18 | 9 51 | 1 27 | 13 46 | 1 14 | 22 54 | 0 25 | 1 34 | 2 19 | 13 12 | 0 44 | 20 34 | 0 20 | 23 24 | 0 9 | 7 8 | 7 27 | 9 21 | | n.a. |
| M20 | 2 23 | 13 0 | 4 52 | 8 51 | 0 35 | 9 22 | 1 28 | 13 33 | 1 14 | 22 53 | 0 25 | 1 31 | 2 19 | 13 10 | 0 44 | 20 34 | 0 20 | 23 24 | 0 9 | 7 9 | 7 28 | 9 23 | | n.a. |
| T 21 | 1 59 | 15 30 | 5 11 | 9 5 | 0 50 | 8 54 | 1 28 | 13 20 | 1 14 | 22 52 | 0 26 | 1 28 | 2 19 | 13 9 | 0 44 | 20 33 | 0 20 | 23 24 | 0 9 | 7 9 | 7 30 | 9 25 | | n.a. |
| W22 | 1 35 | 17 22 | 5 16 | 9 12 | 1 4 | 8 25 | 1 28 | 13 6 | 1 14 | 22 51 | 0 26 | 1 25 | 2 19 | 13 8 | 0 44 | 20 33 | 0 20 | 23 24 | 0 8 | 7 10 | 7 31 | 9 26 | | n.a. |
| T 23 | 1 11 | 18 28 | 5 8 | 9 15 | 1 17 | 7 56 | 1 28 | 12 53 | 1 14 | 22 50 | 0 26 | 1 22 | 2 19 | 13 7 | 0 44 | 20 33 | 0 20 | 23 24 | 0 8 | 7 10 | 7 32 | 9 28 | | n.a. |
| F 24 | 0 47 | 18 44 | 4 46 | 9 12 | 1 28 | 7 27 | 1 28 | 12 39 | 1 14 | 22 49 | 0 26 | 1 20 | 2 19 | 13 6 | 0 44 | 20 32 | 0 20 | 23 25 | 0 8 | 7 10 | 7 33 | 9 30 | | n.a. |
| S 25 | 0 23 | 18 4 | 4 9 | 9 4 | 1 37 | 6 57 | 1 28 | 12 25 | 1 14 | 22 48 | 0 26 | 1 17 | 2 19 | 13 5 | 0 44 | 20 32 | 0 20 | 23 25 | 0 8 | 7 10 | 7 35 | 9 31 | | n.a. |
| S 26 | 0s 1 | 16 25 | 3 18 | 8 52 | 1 45 | 6 28 | 1 28 | 12 11 | 1 14 | 22 47 | 0 27 | 1 14 | 2 19 | 13 3 | 0 44 | 20 32 | 0 20 | 23 25 | 0 8 | 7 9 | 7 36 | 9 33 | | n.a. |
| M27 | 0 25 | 13 48 | 2 14 | 8 35 | 1 52 | 5 58 | 1 28 | 11 58 | 1 14 | 22 46 | 0 27 | 1 11 | 2 19 | 13 2 | 0 44 | 20 32 | 0 20 | 23 25 | 0 8 | 7 9 | 7 37 | 9 35 | | n.a. |
| T 28 | 0 49 | 10 19 | 1 1 | 8 15 | 1 57 | 5 28 | 1 28 | 11 44 | 1 14 | 22 46 | 0 27 | 1 8 | 2 19 | 13 1 | 0 44 | 20 31 | 0 20 | 23 25 | 0 8 | 7 8 | 7 38 | 9 37 | | n.a. |
| W29 | 1 13 | 6 6 | 0n19 | 7 51 | 2 1 | 4 57 | 1 27 | 11 30 | 1 14 | 22 45 | 0 27 | 1 5 | 2 19 | 13 0 | 0 44 | 20 31 | 0 20 | 23 25 | 0 8 | 7 8 | 7 39 | 9 38 | | n.a. |
| T 30 | 1s38 | 1n26 | 1n39 | 7n25 | 2n 4 | 4n27 | 1n27 | 11n15 | 1n14 | 22n44 | 0n27 | 1n 2 | 2n19 | 12n59 | 0n44 | 20n31 | 0n20 | 23n25 | 0s 8 | 7n 8 | 7n41 | 9n40 | | n.a. |

Julian Day Number = 1703038.5, Delta T = 03h04m35s
Ecliptic obliquity = 23°41'56, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°45'30, Lahiri = - 4°38'29 Julian Calendar 1 Sept. 51 BCE == Greg. Calendar 30 Aug. 051 BCE

The year -50 astronomical counting style corresponds to year 051 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 51 BCE
# geocentric

## OCTOBER 51 BCE (-50) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 0 27 18 | 5♎ 3'09 | 15♎11 | 17♍29 | 23♍28 | 4♍45 | 19♋30 | 2♎50 | 28♌ 4 | 0♌50 | 23°R43 | 11°R57 | 10♍32 | 6♉ 7 | n.a. | F 1 |
| S 2 | 0 31 15 | 6° 3'18 | 0♏17 | 18°52 | 24°44 | 5°23 | 19°37 | 2°57 | 28° 7 | 0°52 | 23♊43 | 11♍54 | 10°29 | 6°14 | n.a. | S 2 |
| S 3 | 0 35 11 | 7° 3'28 | 15°18 | 20°17 | 25°59 | 6° 1 | 19°44 | 3° 4 | 28°10 | 0°53 | 23°43 | 11°51 | 10°26 | 6°21 | n.a. | S 3 |
| M 4 | 0 39 8 | 8° 3'41 | 0♐ 6 | 21°45 | 27°14 | 6°40 | 19°51 | 3°11 | 28°14 | 0°54 | 23°43 | 11°47 | 10°23 | 6°27 | n.a. | M 4 |
| T 5 | 0 43 4 | 9° 3'55 | 14°35 | 23°16 | 28°30 | 7°18 | 19°57 | 3°18 | 28°17 | 0°55 | 23°43 | 11°44 | 10°19 | 6°34 | n.a. | T 5 |
| W 6 | 0 47 1 | 10° 4'11 | 28°42 | 24°47 | 29°45 | 7°57 | 20° 4 | 3°26 | 28°20 | 0°56 | 23°43 | 11°42 | 10°16 | 6°41 | n.a. | W 6 |
| T 7 | 0 50 57 | 11° 4'29 | 12♑24 | 26°21 | 1♎ 1 | 8°35 | 20°10 | 3°33 | 28°23 | 0°57 | 23°42 | 11°D42 | 10°13 | 6°48 | n.a. | T 7 |
| F 8 | 0 54 54 | 12° 4'48 | 25°42 | 27°55 | 2°16 | 9°13 | 20°16 | 3°40 | 28°26 | 0°58 | 23°42 | 11°43 | 10°10 | 6°54 | n.a. | F 8 |
| S 9 | 0 58 51 | 13° 5'08 | 8♒41 | 29°30 | 3°31 | 9°52 | 20°22 | 3°47 | 28°29 | 0°59 | 23°42 | 11°44 | 10° 7 | 7° 1 | n.a. | S 9 |
| S 10 | 1 2 47 | 14° 5'30 | 21°21 | 1♎ 6 | 4°47 | 10°30 | 20°28 | 3°54 | 28°32 | 1° 0 | 23°42 | 11°46 | 10° 4 | 7° 8 | n.a. | S 10 |
| M11 | 1 6 44 | 15° 5'54 | 3♓47 | 2°42 | 6° 2 | 11° 8 | 20°34 | 4° 1 | 28°35 | 1° 1 | 23°41 | 11°47 | 10° 0 | 7°14 | n.a. | M11 |
| T 12 | 1 10 40 | 16° 6'19 | 16° 2 | 4°18 | 7°18 | 11°47 | 20°39 | 4° 8 | 28°37 | 1° 2 | 23°41 | 11°R47 | 9°57 | 7°21 | n.a. | T 12 |
| W13 | 1 14 37 | 17° 6'46 | 28° 8 | 5°55 | 8°33 | 12°25 | 20°44 | 4°15 | 28°40 | 1° 2 | 23°41 | 11°46 | 9°54 | 7°28 | n.a. | W13 |
| T 14 | 1 18 33 | 18° 7'14 | 10♈ 8 | 7°32 | 9°49 | 13° 4 | 20°50 | 4°23 | 28°43 | 1° 3 | 23°40 | 11°43 | 9°51 | 7°34 | n.a. | T 14 |
| F 15 | 1 22 30 | 19° 7'44 | 22° 3 | 9° 9 | 11° 4 | 13°42 | 20°55 | 4°30 | 28°46 | 1° 4 | 23°40 | 11°38 | 9°48 | 7°41 | n.a. | F 15 |
| S 16 | 1 26 26 | 20° 8'16 | 3♉55 | 10°46 | 12°20 | 14°21 | 21° 0 | 4°37 | 28°48 | 1° 5 | 23°39 | 11°31 | 9°44 | 7°48 | n.a. | S 16 |
| S 17 | 1 30 23 | 21° 8'49 | 15°46 | 12°23 | 13°35 | 14°59 | 21° 4 | 4°44 | 28°51 | 1° 5 | 23°39 | 11°23 | 9°41 | 7°55 | n.a. | S 17 |
| M18 | 1 34 19 | 22° 9'24 | 27°38 | 13°59 | 14°51 | 15°37 | 21° 9 | 4°51 | 28°54 | 1° 6 | 23°38 | 11°15 | 9°38 | 8° 1 | n.a. | M18 |
| T 19 | 1 38 16 | 23°10'01 | 9♊32 | 15°36 | 16° 6 | 16°16 | 21°13 | 4°57 | 28°56 | 1° 7 | 23°38 | 11° 8 | 9°35 | 8° 8 | n.a. | T 19 |
| W20 | 1 42 13 | 24°10'40 | 21°32 | 17°13 | 17°22 | 16°54 | 21°17 | 5° 4 | 28°59 | 1° 7 | 23°37 | 11° 1 | 9°32 | 8°15 | n.a. | W20 |
| T 21 | 1 46 9 | 25°11'20 | 3♋41 | 18°49 | 18°37 | 17°33 | 21°21 | 5°11 | 29° 1 | 1° 8 | 23°37 | 10°57 | 9°29 | 8°21 | n.a. | T 21 |
| F 22 | 1 50 6 | 26°12'02 | 16° 3 | 20°25 | 19°53 | 18°11 | 21°25 | 5°18 | 29° 4 | 1° 8 | 23°36 | 10°54 | 9°25 | 8°28 | n.a. | F 22 |
| S 23 | 1 54 2 | 27°12'46 | 28°41 | 22° 1 | 21° 8 | 18°50 | 21°29 | 5°25 | 29° 6 | 1° 9 | 23°36 | 10°D54 | 9°22 | 8°35 | n.a. | S 23 |
| S 24 | 1 57 59 | 28°13'32 | 11♌41 | 23°36 | 22°24 | 19°28 | 21°32 | 5°32 | 29° 9 | 1° 9 | 23°35 | 10°55 | 9°19 | 8°41 | n.a. | S 24 |
| M25 | 2 1 55 | 29°14'19 | 25° 6 | 25°12 | 23°40 | 20° 7 | 21°35 | 5°39 | 29°11 | 1°10 | 23°34 | 10°56 | 9°16 | 8°48 | n.a. | M25 |
| T 26 | 2 5 52 | 0♏15'08 | 8♍58 | 26°47 | 24°55 | 20°45 | 21°38 | 5°45 | 29°13 | 1°10 | 23°34 | 10°R57 | 9°13 | 8°55 | n.a. | T 26 |
| W27 | 2 9 48 | 1°15'59 | 23°19 | 28°23 | 26°11 | 21°24 | 21°41 | 5°52 | 29°16 | 1°10 | 23°33 | 10°56 | 9° 9 | 9° 2 | n.a. | W27 |
| T 28 | 2 13 45 | 2°16'51 | 8♎ 5 | 29°58 | 27°26 | 22° 2 | 21°44 | 5°59 | 29°18 | 1°11 | 23°32 | 10°53 | 9° 6 | 9° 8 | n.a. | T 28 |
| F 29 | 2 17 42 | 3°17'44 | 23°12 | 1♏32 | 28°42 | 22°41 | 21°47 | 6° 6 | 29°20 | 1°11 | 23°31 | 10°48 | 9° 3 | 9°15 | n.a. | F 29 |
| S 30 | 2 21 38 | 4°18'39 | 8♏31 | 3° 7 | 29°58 | 23°19 | 21°49 | 6°12 | 29°22 | 1°11 | 23°31 | 10°41 | 9° 0 | 9°22 | n.a. | S 30 |
| S 31 | 2 25 35 | 5♏19'35 | 23♏49 | 4♏42 | 1♏13 | 23♍58 | 21♋51 | 6♎19 | 29♌24 | 1♌12 | 23♊30 | 10♍32 | 8♍57 | 9♉28 | n.a. | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 2s 2 | 3s23 | 2n53 | 6n55 | 2n 5 | 3n56 | 1n27 | 11n 1 | 1n14 | 22n43 | 0n27 | 0n59 | 2n19 | 12n58 | 0n44 | 20n31 | 0n20 | 23n25 | 0s 8 | 7n 9 | 7n42 | 9n42 | | n.a. |
| S 2 | 2 26 | 8 1 | 3 55 | 6 23 | 2 6 | 3 26 | 1 26 | 10 47 | 1 14 | 22 42 | 0 28 | 0 57 | 2 19 | 12 57 | 0 44 | 20 30 | 0 20 | 23 25 | 0 8 | 7 10 | 7 43 | 9 44 | | n.a. |
| S 3 | 2 50 | 12 7 | 4 41 | 5 49 | 2 6 | 2 55 | 1 25 | 10 33 | 1 14 | 22 41 | 0 28 | 0 54 | 2 19 | 12 56 | 0 44 | 20 30 | 0 20 | 23 25 | 0 8 | 7 12 | 7 44 | 9 45 | | n.a. |
| M 4 | 3 14 | 15 23 | 5 7 | 5 13 | 2 5 | 2 24 | 1 25 | 10 18 | 1 14 | 22 41 | 0 28 | 0 51 | 2 19 | 12 55 | 0 44 | 20 30 | 0 20 | 23 25 | 0 8 | 7 13 | 7 45 | 9 47 | | n.a. |
| T 5 | 3 38 | 17 36 | 5 13 | 4 36 | 2 4 | 1 53 | 1 24 | 10 4 | 1 14 | 22 40 | 0 28 | 0 48 | 2 19 | 12 53 | 0 44 | 20 30 | 0 20 | 23 25 | 0 8 | 7 14 | 7 47 | 9 49 | | n.a. |
| W 6 | 4 2 | 18 41 | 5 0 | 3 57 | 2 1 | 1 22 | 1 23 | 9 50 | 1 14 | 22 39 | 0 28 | 0 45 | 2 19 | 12 52 | 0 44 | 20 30 | 0 20 | 23 25 | 0 8 | 7 15 | 7 48 | 9 51 | | n.a. |
| T 7 | 4 26 | 18 38 | 4 30 | 3 17 | 1 59 | 0 51 | 1 23 | 9 35 | 1 14 | 22 38 | 0 29 | 0 42 | 2 20 | 12 51 | 0 44 | 20 29 | 0 20 | 23 25 | 0 8 | 7 15 | 7 49 | 9 52 | | n.a. |
| F 8 | 4 49 | 17 32 | 3 46 | 2 36 | 1 55 | 0 20 | 1 22 | 9 20 | 1 14 | 22 37 | 0 29 | 0 39 | 2 20 | 12 50 | 0 44 | 20 29 | 0 20 | 23 25 | 0 8 | 7 15 | 7 50 | 9 54 | | n.a. |
| S 9 | 5 13 | 15 32 | 2 51 | 1 54 | 1 52 | 0s11 | 1 21 | 9 6 | 1 14 | 22 37 | 0 29 | 0 37 | 2 20 | 12 49 | 0 44 | 20 29 | 0 20 | 23 25 | 0 7 | 7 14 | 7 52 | 9 56 | | n.a. |
| S 10 | 5 37 | 12 49 | 1 50 | 1 12 | 1 47 | 0 42 | 1 20 | 8 51 | 1 14 | 22 36 | 0 29 | 0 34 | 2 20 | 12 48 | 0 44 | 20 29 | 0 20 | 23 25 | 0 7 | 7 14 | 7 53 | 9 57 | | n.a. |
| M11 | 6 1 | 9 33 | 0 44 | 0 29 | 1 43 | 1 13 | 1 19 | 8 36 | 1 14 | 22 35 | 0 29 | 0 31 | 2 20 | 12 47 | 0 44 | 20 29 | 0 20 | 23 25 | 0 7 | 7 13 | 7 54 | 9 59 | | n.a. |
| T 12 | 6 24 | 5 55 | 0s23 | 0s14 | 1 38 | 1 44 | 1 18 | 8 21 | 1 14 | 22 35 | 0 30 | 0 28 | 2 20 | 12 46 | 0 44 | 20 28 | 0 20 | 23 26 | 0 7 | 7 13 | 7 55 | 10 1 | | n.a. |
| W13 | 6 48 | 2 6 | 1 28 | 0 58 | 1 33 | 2 16 | 1 16 | 8 7 | 1 14 | 22 34 | 0 30 | 0 25 | 2 20 | 12 45 | 0 44 | 20 28 | 0 20 | 23 26 | 0 7 | 7 13 | 7 56 | 10 3 | | n.a. |
| T 14 | 7 11 | 1n47 | 2 28 | 1 41 | 1 27 | 2 47 | 1 15 | 7 52 | 1 14 | 22 34 | 0 30 | 0 23 | 2 20 | 12 44 | 0 44 | 20 28 | 0 20 | 23 26 | 0 7 | 7 15 | 7 58 | 10 4 | | n.a. |
| F 15 | 7 34 | 5 34 | 3 21 | 2 25 | 1 22 | 3 18 | 1 14 | 7 37 | 1 14 | 22 33 | 0 30 | 0 20 | 2 20 | 12 43 | 0 45 | 20 28 | 0 20 | 23 26 | 0 7 | 7 17 | 7 59 | 10 6 | | n.a. |
| S 16 | 7 57 | 9 7 | 4 6 | 3 9 | 1 16 | 3 49 | 1 12 | 7 22 | 1 14 | 22 32 | 0 30 | 0 17 | 2 20 | 12 43 | 0 45 | 20 28 | 0 20 | 23 26 | 0 7 | 7 19 | 8 0 | 10 8 | | n.a. |
| S 17 | 8 20 | 12 17 | 4 39 | 3 53 | 1 10 | 4 20 | 1 11 | 7 7 | 1 14 | 22 32 | 0 31 | 0 14 | 2 20 | 12 42 | 0 45 | 20 28 | 0 20 | 23 26 | 0 7 | 7 22 | 8 1 | 10 9 | | n.a. |
| M18 | 8 43 | 14 58 | 5 0 | 4 36 | 1 3 | 4 51 | 1 10 | 6 52 | 1 14 | 22 31 | 0 31 | 0 12 | 2 20 | 12 41 | 0 45 | 20 28 | 0 20 | 23 26 | 0 7 | 7 25 | 8 2 | 10 11 | | n.a. |
| T 19 | 9 6 | 17 2 | 5 9 | 5 20 | 0 57 | 5 21 | 1 8 | 6 36 | 1 14 | 22 31 | 0 31 | 0 9 | 2 20 | 12 40 | 0 45 | 20 27 | 0 20 | 23 26 | 0 7 | 7 28 | 8 4 | 10 13 | | n.a. |
| W20 | 9 29 | 18 22 | 5 4 | 6 3 | 0 51 | 5 52 | 1 7 | 6 21 | 1 14 | 22 30 | 0 31 | 0 6 | 2 20 | 12 39 | 0 45 | 20 27 | 0 20 | 23 26 | 0 7 | 7 31 | 8 5 | 10 15 | | n.a. |
| T 21 | 9 51 | 18 54 | 4 45 | 6 46 | 0 44 | 6 22 | 1 5 | 6 6 | 1 14 | 22 30 | 0 31 | 0 4 | 2 20 | 12 38 | 0 45 | 20 27 | 0 20 | 23 26 | 0 7 | 7 32 | 8 6 | 10 16 | | n.a. |
| F 22 | 10 13 | 18 32 | 4 13 | 7 29 | 0 38 | 6 53 | 1 3 | 5 51 | 1 14 | 22 30 | 0 32 | 0 1 | 2 20 | 12 37 | 0 45 | 20 27 | 0 20 | 23 26 | 0 7 | 7 33 | 8 7 | 10 18 | | n.a. |
| S 23 | 10 35 | 17 15 | 3 28 | 8 11 | 0 31 | 7 23 | 1 2 | 5 36 | 1 14 | 22 29 | 0 32 | 0s 2 | 2 21 | 12 36 | 0 45 | 20 27 | 0 20 | 23 26 | 0 7 | 7 34 | 8 8 | 10 20 | | n.a. |
| S 24 | 10 57 | 15 3 | 2 31 | 8 53 | 0 24 | 7 53 | 1 0 | 5 20 | 1 14 | 22 29 | 0 32 | 0 4 | 2 21 | 12 36 | 0 45 | 20 27 | 0 20 | 23 26 | 0 7 | 7 33 | 8 10 | 10 21 | | n.a. |
| M25 | 11 19 | 11 58 | 1 25 | 9 35 | 0 18 | 8 23 | 0 58 | 5 5 | 1 13 | 22 29 | 0 32 | 0 7 | 2 21 | 12 35 | 0 45 | 20 27 | 0 20 | 23 26 | 0 6 | 7 33 | 8 11 | 10 23 | | n.a. |
| T 26 | 11 41 | 8 8 | 0 11 | 10 16 | 0 11 | 8 53 | 0 56 | 4 50 | 1 13 | 22 28 | 0 32 | 0 10 | 2 21 | 12 34 | 0 45 | 20 27 | 0 20 | 23 26 | 0 6 | 7 32 | 8 12 | 10 25 | | n.a. |
| W27 | 12 2 | 3 42 | 1n 6 | 10 56 | 0 5 | 9 22 | 0 54 | 4 34 | 1 13 | 22 28 | 0 33 | 0 12 | 2 21 | 12 33 | 0 45 | 20 27 | 0 20 | 23 26 | 0 6 | 7 33 | 8 13 | 10 26 | | n.a. |
| T 28 | 12 24 | 1s 5 | 2 21 | 11 37 | 0s 2 | 9 51 | 0 53 | 4 19 | 1 13 | 22 28 | 0 33 | 0 15 | 2 21 | 12 33 | 0 45 | 20 27 | 0 20 | 23 26 | 0 6 | 7 34 | 8 15 | 10 28 | | n.a. |
| F 29 | 12 45 | 5 55 | 3 27 | 12 16 | 0 9 | 10 20 | 0 51 | 4 3 | 1 13 | 22 28 | 0 33 | 0 17 | 2 21 | 12 32 | 0 45 | 20 27 | 0 20 | 23 26 | 0 6 | 7 36 | 8 16 | 10 30 | | n.a. |
| S 30 | 13 6 | 10 24 | 4 19 | 12 55 | 0 15 | 10 49 | 0 49 | 3 48 | 1 13 | 22 28 | 0 33 | 0 20 | 2 21 | 12 31 | 0 45 | 20 27 | 0 21 | 23 26 | 0 6 | 7 39 | 8 17 | 10 32 | | n.a. |
| S 31 | 13s26 | 14s12 | 4n53 | 13s34 | 0s22 | 11s18 | 0n47 | 3n32 | 1n13 | 22n27 | 0n34 | 0s22 | 2n21 | 12n30 | 0n45 | 20n27 | 0n21 | 23n26 | 0s 6 | 7n42 | 8n18 | 10n33 | | n.a. |

Julian Day Number = 1703068.5, Delta T = 03h04m34s
Ecliptic obliquity = 23°41'56, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°45'26, Lahiri = - 4°38'25 Julian Calendar 1 Oct. 51 BCE == Greg. Calendar 29 Sept. 051 BCE

The year -50 astronomical counting style corresponds to year 051 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 51 BCE
# geocentric

## NOVEMBER 51 BCE (-50) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 2 29 31 | 6♏20'33 | 8♐57 | 6♏16 | 2♏29 | 24♍36 | 21♋53 | 6♎25 | 29♌26 | 1♌12 | 23°R29 | 10°R23 | 8♍54 | 9♉35 | n.a. | M 1 |
| T 2 | 2 33 28 | 7°21'31 | 23°44 | 7°51 | 3°44 | 25°15 | 21°55 | 6°32 | 29°28 | 1°12 | 23♊28 | 10♍15 | 8°50 | 9°42 | n.a. | T 2 |
| W 3 | 2 37 24 | 8°22'30 | 8♑ 4 | 9°25 | 5° 0 | 25°53 | 21°56 | 6°38 | 29°30 | 1°12 | 23°27 | 10° 9 | 8°47 | 9°49 | n.a. | W 3 |
| T 4 | 2 41 21 | 9°23'30 | 21°55 | 10°59 | 6°15 | 26°32 | 21°58 | 6°45 | 29°32 | 1°12 | 23°27 | 10° 5 | 8°44 | 9°55 | n.a. | T 4 |
| F 5 | 2 45 17 | 10°24'31 | 5♒17 | 12°34 | 7°31 | 27°10 | 21°59 | 6°51 | 29°34 | 1°12 | 23°26 | 10°D 4 | 8°41 | 10° 2 | n.a. | F 5 |
| S 6 | 2 49 14 | 11°25'33 | 18°14 | 14° 8 | 8°47 | 27°49 | 22° 0 | 6°58 | 29°36 | 1°R12 | 23°25 | 10° 4 | 8°38 | 10° 9 | n.a. | S 6 |
| S 7 | 2 53 11 | 12°26'35 | 0♓49 | 15°42 | 10° 2 | 28°27 | 22° 1 | 7° 4 | 29°37 | 1°12 | 23°24 | 10° 5 | 8°35 | 10°15 | n.a. | S 7 |
| M 8 | 2 57 7 | 13°27'38 | 13° 6 | 17°16 | 11°18 | 29° 6 | 22° 1 | 7°10 | 29°39 | 1°12 | 23°23 | 10°R 5 | 8°31 | 10°22 | n.a. | M 8 |
| T 9 | 3 1 4 | 14°28'41 | 25°12 | 18°50 | 12°33 | 29°44 | 22° 2 | 7°16 | 29°41 | 1°12 | 23°22 | 10° 4 | 8°28 | 10°29 | n.a. | T 9 |
| W10 | 3 5 0 | 15°29'45 | 7♈ 9 | 20°25 | 13°49 | 0♎23 | 22° 2 | 7°23 | 29°42 | 1°12 | 23°21 | 10° 0 | 8°25 | 10°35 | n.a. | W10 |
| T 11 | 3 8 57 | 16°30'50 | 19° 2 | 21°59 | 15° 5 | 1° 2 | 22°R 2 | 7°29 | 29°44 | 1°12 | 23°20 | 9°54 | 8°22 | 10°42 | n.a. | T 11 |
| F 12 | 3 12 53 | 17°31'56 | 0♉52 | 23°33 | 16°20 | 1°40 | 22° 2 | 7°35 | 29°45 | 1°12 | 23°19 | 9°44 | 8°19 | 10°49 | n.a. | F 12 |
| S 13 | 3 16 50 | 18°33'02 | 12°44 | 25° 7 | 17°36 | 2°19 | 22° 1 | 7°41 | 29°47 | 1°11 | 23°18 | 9°32 | 8°15 | 10°56 | n.a. | S 13 |
| S 14 | 3 20 46 | 19°34'09 | 24°37 | 26°42 | 18°51 | 2°57 | 22° 1 | 7°47 | 29°48 | 1°11 | 23°17 | 9°19 | 8°12 | 11° 2 | n.a. | S 14 |
| M15 | 3 24 43 | 20°35'17 | 6♊33 | 28°16 | 20° 7 | 3°36 | 22° 0 | 7°53 | 29°49 | 1°11 | 23°16 | 9° 5 | 8° 9 | 11° 9 | n.a. | M15 |
| T 16 | 3 28 40 | 21°36'26 | 18°33 | 29°51 | 21°22 | 4°14 | 21°59 | 7°59 | 29°51 | 1°10 | 23°15 | 8°52 | 8° 6 | 11°16 | n.a. | T 16 |
| W17 | 3 32 36 | 22°37'35 | 0♋40 | 1♐26 | 22°38 | 4°53 | 21°58 | 8° 4 | 29°52 | 1°10 | 23°14 | 8°40 | 8° 3 | 11°22 | n.a. | W17 |
| T 18 | 3 36 33 | 23°38'45 | 12°54 | 3° 0 | 23°53 | 5°31 | 21°57 | 8°10 | 29°53 | 1°10 | 23°13 | 8°31 | 8° 0 | 11°29 | n.a. | T 18 |
| F 19 | 3 40 29 | 24°39'56 | 25°19 | 4°35 | 25° 9 | 6°10 | 21°55 | 8°16 | 29°54 | 1° 9 | 23°12 | 8°24 | 7°56 | 11°36 | n.a. | F 19 |
| S 20 | 3 44 26 | 25°41'08 | 7♌57 | 6°10 | 26°25 | 6°48 | 21°53 | 8°22 | 29°55 | 1° 9 | 23°11 | 8°21 | 7°53 | 11°43 | n.a. | S 20 |
| S 21 | 3 48 22 | 26°42'20 | 20°52 | 7°44 | 27°40 | 7°27 | 21°51 | 8°27 | 29°56 | 1° 8 | 23° 9 | 8°20 | 7°50 | 11°49 | n.a. | S 21 |
| M22 | 3 52 19 | 27°43'33 | 4♍ 7 | 9°19 | 28°56 | 8° 6 | 21°49 | 8°33 | 29°57 | 1° 8 | 23° 8 | 8°20 | 7°47 | 11°56 | n.a. | M22 |
| T 23 | 3 56 15 | 28°44'47 | 17°47 | 10°54 | 0♐11 | 8°44 | 21°47 | 8°38 | 29°58 | 1° 7 | 23° 7 | 8°20 | 7°44 | 12° 3 | n.a. | T 23 |
| W24 | 4 0 12 | 29°46'01 | 1♎53 | 12°28 | 1°27 | 9°23 | 21°44 | 8°43 | 29°59 | 1° 7 | 23° 6 | 8°18 | 7°40 | 12° 9 | n.a. | W24 |
| T 25 | 4 4 9 | 0♐47'16 | 16°25 | 14° 2 | 2°42 | 10° 1 | 21°42 | 8°49 | 29°59 | 1° 6 | 23° 5 | 8°14 | 7°37 | 12°16 | n.a. | T 25 |
| F 26 | 4 8 5 | 1°48'32 | 1♏20 | 15°36 | 3°58 | 10°40 | 21°39 | 8°54 | 0♍ 0 | 1° 5 | 23° 4 | 8° 7 | 7°34 | 12°23 | n.a. | F 26 |
| S 27 | 4 12 2 | 2°49'48 | 16°30 | 17°10 | 5°13 | 11°18 | 21°36 | 8°59 | 0° 1 | 1° 5 | 23° 2 | 7°57 | 7°31 | 12°30 | n.a. | S 27 |
| S 28 | 4 15 58 | 3°51'04 | 1♐47 | 18°43 | 6°29 | 11°57 | 21°32 | 9° 4 | 0° 1 | 1° 4 | 23° 1 | 7°46 | 7°28 | 12°36 | n.a. | S 28 |
| M29 | 4 19 55 | 4°52'21 | 16°58 | 20°15 | 7°44 | 12°36 | 21°29 | 9° 9 | 0° 2 | 1° 3 | 23° 0 | 7°34 | 7°25 | 12°43 | n.a. | M29 |
| T 30 | 4 23 51 | 5♐53'37 | 1♑54 | 21♐47 | 9♐ 0 | 13♎14 | 21♋25 | 9♎14 | 0♍ 2 | 1♌ 2 | 22♊59 | 7♍23 | 7♍21 | 12♉50 | n.a. | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 13s47 | 17s 0 | 5n 5 | 14s12 | 0s28 | 11s46 | 0n45 | 3n17 | 1n13 | 22n27 | 0n34 | 0s25 | 2n21 | 12n30 | 0n45 | 20n27 | 0n21 | 23n26 | 0s 6 | 7n45 | 8n19 | 10n35 | | n.a. |
| T 2 | 14 7 | 18 36 | 4 57 | 14 49 | 0 34 | 12 14 | 0 43 | 3 1 | 1 13 | 22 27 | 0 34 | 0 28 | 2 22 | 12 29 | 0 45 | 20 27 | 0 21 | 23 26 | 0 6 | 7 48 | 8 21 | 10 37 | | n.a. |
| W 3 | 14 27 | 18 57 | 4 30 | 15 26 | 0 41 | 12 42 | 0 40 | 2 46 | 1 13 | 22 27 | 0 34 | 0 30 | 2 22 | 12 28 | 0 45 | 20 27 | 0 21 | 23 26 | 0 6 | 7 51 | 8 22 | 10 38 | | n.a. |
| T 4 | 14 47 | 18 8 | 3 48 | 16 2 | 0 47 | 13 9 | 0 38 | 2 30 | 1 13 | 22 27 | 0 34 | 0 32 | 2 22 | 12 28 | 0 45 | 20 27 | 0 21 | 23 26 | 0 6 | 7 52 | 8 23 | 10 40 | | n.a. |
| F 5 | 15 6 | 16 19 | 2 55 | 16 37 | 0 53 | 13 36 | 0 36 | 2 15 | 1 13 | 22 27 | 0 35 | 0 35 | 2 22 | 12 27 | 0 45 | 20 27 | 0 21 | 23 26 | 0 6 | 7 53 | 8 24 | 10 42 | | n.a. |
| S 6 | 15 25 | 13 43 | 1 54 | 17 11 | 0 59 | 14 3 | 0 34 | 1 59 | 1 12 | 22 27 | 0 35 | 0 37 | 2 22 | 12 27 | 0 45 | 20 27 | 0 21 | 23 26 | 0 6 | 7 53 | 8 25 | 10 43 | | n.a. |
| S 7 | 15 44 | 10 32 | 0 49 | 17 45 | 1 4 | 14 29 | 0 32 | 1 43 | 1 12 | 22 27 | 0 35 | 0 40 | 2 22 | 12 26 | 0 45 | 20 27 | 0 21 | 23 26 | 0 6 | 7 52 | 8 27 | 10 45 | | n.a. |
| M 8 | 16 3 | 6 57 | 0s16 | 18 18 | 1 10 | 14 55 | 0 29 | 1 28 | 1 12 | 22 27 | 0 35 | 0 42 | 2 22 | 12 26 | 0 45 | 20 27 | 0 21 | 23 26 | 0 6 | 7 52 | 8 28 | 10 47 | | n.a. |
| T 9 | 16 21 | 3 9 | 1 20 | 18 49 | 1 16 | 15 21 | 0 27 | 1 12 | 1 12 | 22 28 | 0 36 | 0 44 | 2 22 | 12 25 | 0 45 | 20 27 | 0 21 | 23 26 | 0 6 | 7 53 | 8 29 | 10 48 | | n.a. |
| W10 | 16 39 | 0n45 | 2 19 | 19 21 | 1 21 | 15 46 | 0 25 | 0 57 | 1 12 | 22 28 | 0 36 | 0 47 | 2 23 | 12 24 | 0 45 | 20 27 | 0 21 | 23 26 | 0 5 | 7 54 | 8 30 | 10 50 | | n.a. |
| T 11 | 16 57 | 4 35 | 3 12 | 19 51 | 1 26 | 16 10 | 0 23 | 0 41 | 1 12 | 22 28 | 0 36 | 0 49 | 2 23 | 12 24 | 0 46 | 20 27 | 0 21 | 23 26 | 0 5 | 7 57 | 8 31 | 10 52 | | n.a. |
| F 12 | 17 15 | 8 14 | 3 56 | 20 20 | 1 31 | 16 35 | 0 20 | 0 25 | 1 12 | 22 28 | 0 36 | 0 51 | 2 23 | 12 23 | 0 46 | 20 27 | 0 21 | 23 26 | 0 5 | 8 0 | 8 33 | 10 54 | | n.a. |
| S 13 | 17 32 | 11 33 | 4 29 | 20 48 | 1 36 | 16 59 | 0 18 | 0 10 | 1 12 | 22 29 | 0 37 | 0 54 | 2 23 | 12 23 | 0 46 | 20 27 | 0 21 | 23 26 | 0 5 | 8 5 | 8 34 | 10 55 | | n.a. |
| S 14 | 17 49 | 14 25 | 4 51 | 21 15 | 1 40 | 17 22 | 0 16 | 0s 6 | 1 11 | 22 29 | 0 37 | 0 56 | 2 23 | 12 23 | 0 46 | 20 27 | 0 21 | 23 26 | 0 5 | 8 10 | 8 35 | 10 57 | | n.a. |
| M15 | 18 5 | 16 42 | 5 1 | 21 41 | 1 45 | 17 45 | 0 13 | 0 21 | 1 11 | 22 29 | 0 37 | 0 58 | 2 23 | 12 22 | 0 46 | 20 27 | 0 21 | 23 26 | 0 5 | 8 15 | 8 36 | 10 59 | | n.a. |
| T 16 | 18 22 | 18 16 | 4 57 | 22 6 | 1 49 | 18 7 | 0 11 | 0 37 | 1 11 | 22 30 | 0 37 | 1 0 | 2 24 | 12 22 | 0 46 | 20 27 | 0 21 | 23 26 | 0 5 | 8 20 | 8 37 | 11 0 | | n.a. |
| W17 | 18 38 | 19 2 | 4 39 | 22 30 | 1 52 | 18 29 | 0 9 | 0 53 | 1 11 | 22 30 | 0 37 | 1 2 | 2 24 | 12 21 | 0 46 | 20 27 | 0 21 | 23 26 | 0 5 | 8 25 | 8 39 | 11 2 | | n.a. |
| T 18 | 18 53 | 18 56 | 4 9 | 22 53 | 1 56 | 18 51 | 0 6 | 1 8 | 1 11 | 22 31 | 0 38 | 1 5 | 2 24 | 12 21 | 0 46 | 20 27 | 0 21 | 23 26 | 0 5 | 8 28 | 8 40 | 11 4 | | n.a. |
| F 19 | 19 8 | 17 55 | 3 27 | 23 14 | 1 59 | 19 12 | 0 4 | 1 24 | 1 11 | 22 31 | 0 38 | 1 7 | 2 24 | 12 21 | 0 46 | 20 28 | 0 21 | 23 26 | 0 5 | 8 30 | 8 41 | 11 5 | | n.a. |
| S 20 | 19 23 | 16 1 | 2 33 | 23 34 | 2 2 | 19 32 | 0 1 | 1 39 | 1 10 | 22 32 | 0 38 | 1 9 | 2 24 | 12 20 | 0 46 | 20 28 | 0 21 | 23 26 | 0 5 | 8 32 | 8 42 | 11 7 | | n.a. |
| S 21 | 19 38 | 13 16 | 1 31 | 23 53 | 2 5 | 19 52 | 0s 1 | 1 55 | 1 10 | 22 32 | 0 38 | 1 11 | 2 24 | 12 20 | 0 46 | 20 28 | 0 21 | 23 26 | 0 5 | 8 32 | 8 43 | 11 9 | | n.a. |
| M22 | 19 52 | 9 45 | 0 22 | 24 11 | 2 7 | 20 11 | 0 3 | 2 10 | 1 10 | 22 33 | 0 39 | 1 13 | 2 25 | 12 20 | 0 46 | 20 28 | 0 21 | 23 26 | 0 5 | 8 32 | 8 45 | 11 10 | | n.a. |
| T 23 | 20 6 | 5 38 | 0n50 | 24 27 | 2 9 | 20 30 | 0 6 | 2 26 | 1 10 | 22 33 | 0 39 | 1 15 | 2 25 | 12 19 | 0 46 | 20 28 | 0 21 | 23 26 | 0 5 | 8 32 | 8 46 | 11 12 | | n.a. |
| W24 | 20 19 | 1 5 | 2 1 | 24 41 | 2 10 | 20 48 | 0 8 | 2 41 | 1 10 | 22 34 | 0 39 | 1 17 | 2 25 | 12 19 | 0 46 | 20 28 | 0 21 | 23 26 | 0 5 | 8 33 | 8 47 | 11 14 | | n.a. |
| T 25 | 20 32 | 3s39 | 3 7 | 24 54 | 2 11 | 21 6 | 0 10 | 2 57 | 1 9 | 22 35 | 0 39 | 1 19 | 2 25 | 12 19 | 0 46 | 20 28 | 0 21 | 23 26 | 0 5 | 8 34 | 8 48 | 11 15 | | n.a. |
| F 26 | 20 45 | 8 18 | 4 1 | 25 5 | 2 12 | 21 23 | 0 13 | 3 12 | 1 9 | 22 35 | 0 40 | 1 21 | 2 25 | 12 19 | 0 46 | 20 29 | 0 21 | 23 26 | 0 4 | 8 37 | 8 49 | 11 17 | | n.a. |
| S 27 | 20 57 | 12 29 | 4 40 | 25 15 | 2 12 | 21 39 | 0 15 | 3 28 | 1 9 | 22 36 | 0 40 | 1 23 | 2 25 | 12 19 | 0 46 | 20 29 | 0 21 | 23 26 | 0 4 | 8 41 | 8 51 | 11 19 | | n.a. |
| S 28 | 21 9 | 15 52 | 4 59 | 25 23 | 2 11 | 21 55 | 0 17 | 3 43 | 1 9 | 22 37 | 0 40 | 1 24 | 2 26 | 12 18 | 0 46 | 20 29 | 0 21 | 23 26 | 0 4 | 8 45 | 8 52 | 11 20 | | n.a. |
| M29 | 21 20 | 18 8 | 4 56 | 25 30 | 2 10 | 22 10 | 0 20 | 3 59 | 1 9 | 22 37 | 0 40 | 1 26 | 2 26 | 12 18 | 0 46 | 20 29 | 0 21 | 23 26 | 0 4 | 8 49 | 8 53 | 11 22 | | n.a. |
| T 30 | 21s31 | 19s 8 | 4n33 | 25s34 | 2s 8 | 22s24 | 0s22 | 4s14 | 1n 8 | 22n38 | 0n40 | 1s28 | 2n26 | 12n18 | 0n46 | 20n29 | 0n21 | 23n26 | 0s 4 | 8n54 | 8n54 | 11n24 | | n.a. |

Julian Day Number = 1703099.5, Delta T = 03h04m33s
Ecliptic obliquity = 23°41'55, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°45'22, Lahiri = - 4°38'21 Julian Calendar 1 Nov. 51 BCE == Greg. Calendar 30 Oct. 051 BCE

The year -50 astronomical counting style corresponds to year 051 B.C.E historical counting style.


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# ASTRODIENST EPHEMERIS for the year 51 BCE
# geocentric

## DECEMBER 51 BCE (-50) JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 4 27 48 | 6♐54'54 | 16♑25 | 23♐18 | 10♐15 | 13♎53 | 21°R21 | 9♎19 | 0♍ 3 | 1°R 2 | 22°R58 | 7°R13 | 7♍18 | 12♉56 | n.a. | W 1 |
| T 2 | 4 31 45 | 7°56'10 | 0♒26 | 24°47 | 11°31 | 14°31 | 21♋17 | 9°24 | 0° 3 | 1♌ 1 | 22♊56 | 7♍ 7 | 7°15 | 13° 3 | n.a. | T 2 |
| F 3 | 4 35 41 | 8°57'27 | 13°57 | 26°15 | 12°46 | 15°10 | 21°13 | 9°29 | 0° 3 | 1° 0 | 22°55 | 7° 4 | 7°12 | 13°10 | n.a. | F 3 |
| S 4 | 4 39 38 | 9°58'42 | 27° 0 | 27°41 | 14° 2 | 15°48 | 21° 9 | 9°34 | 0° 4 | 0°59 | 22°54 | 7° 2 | 7° 9 | 13°17 | n.a. | S 4 |
| S 5 | 4 43 34 | 10°59'58 | 9♓38 | 29° 5 | 15°17 | 16°27 | 21° 4 | 9°38 | 0° 4 | 0°58 | 22°53 | 7° 2 | 7° 6 | 13°23 | n.a. | S 5 |
| M 6 | 4 47 31 | 12° 1'13 | 21°56 | 0♑27 | 16°33 | 17° 5 | 20°59 | 9°43 | 0° 4 | 0°57 | 22°51 | 7° 2 | 7° 2 | 13°30 | n.a. | M 6 |
| T 7 | 4 51 27 | 13° 2'27 | 4♈ 0 | 1°45 | 17°48 | 17°44 | 20°55 | 9°47 | 0° 4 | 0°56 | 22°50 | 7° 0 | 6°59 | 13°37 | n.a. | T 7 |
| W 8 | 4 55 24 | 14° 3'41 | 15°54 | 3° 0 | 19° 3 | 18°23 | 20°50 | 9°52 | 0°R 4 | 0°55 | 22°49 | 6°57 | 6°56 | 13°43 | n.a. | W 8 |
| T 9 | 4 59 20 | 15° 4'55 | 27°45 | 4°10 | 20°19 | 19° 1 | 20°44 | 9°56 | 0° 4 | 0°54 | 22°48 | 6°50 | 6°53 | 13°50 | n.a. | T 9 |
| F 10 | 5 3 17 | 16° 6'08 | 9♉34 | 5°15 | 21°34 | 19°40 | 20°39 | 10° 0 | 0° 4 | 0°53 | 22°46 | 6°40 | 6°50 | 13°57 | n.a. | F 10 |
| S 11 | 5 7 14 | 17° 7'20 | 21°26 | 6°15 | 22°50 | 20°18 | 20°33 | 10° 4 | 0° 4 | 0°52 | 22°45 | 6°28 | 6°46 | 14° 3 | n.a. | S 11 |
| S 12 | 5 11 10 | 18° 8'33 | 3♊24 | 7° 8 | 24° 5 | 20°57 | 20°28 | 10° 8 | 0° 4 | 0°51 | 22°44 | 6°14 | 6°43 | 14°10 | n.a. | S 12 |
| M13 | 5 15 7 | 19° 9'44 | 15°27 | 7°54 | 25°20 | 21°35 | 20°22 | 10°12 | 0° 3 | 0°50 | 22°42 | 6° 0 | 6°40 | 14°17 | n.a. | M13 |
| T 14 | 5 19 3 | 20°10'56 | 27°38 | 8°31 | 26°36 | 22°14 | 20°16 | 10°16 | 0° 3 | 0°49 | 22°41 | 5°46 | 6°37 | 14°24 | n.a. | T 14 |
| W15 | 5 23 0 | 21°12'07 | 9♋56 | 9° 0 | 27°51 | 22°52 | 20°10 | 10°20 | 0° 3 | 0°47 | 22°40 | 5°34 | 6°34 | 14°30 | n.a. | W15 |
| T 16 | 5 26 56 | 22°13'17 | 22°24 | 9°18 | 29° 6 | 23°31 | 20° 4 | 10°24 | 0° 2 | 0°46 | 22°39 | 5°24 | 6°31 | 14°37 | n.a. | T 16 |
| F 17 | 5 30 53 | 23°14'27 | 5♌ 1 | 9°R25 | 0♑22 | 24° 9 | 19°57 | 10°27 | 0° 2 | 0°45 | 22°37 | 5°17 | 6°27 | 14°44 | n.a. | F 17 |
| S 18 | 5 34 49 | 24°15'37 | 17°49 | 9°21 | 1°37 | 24°48 | 19°51 | 10°31 | 0° 1 | 0°44 | 22°36 | 5°13 | 6°24 | 14°50 | n.a. | S 18 |
| S 19 | 5 38 46 | 25°16'46 | 0♍50 | 9° 6 | 2°52 | 25°26 | 19°44 | 10°34 | 0° 1 | 0°42 | 22°35 | 5°D12 | 6°21 | 14°57 | n.a. | S 19 |
| M20 | 5 42 43 | 26°17'55 | 14° 7 | 8°38 | 4° 8 | 26° 5 | 19°38 | 10°38 | 29♌59 | 0°41 | 22°33 | 5°12 | 6°18 | 15° 4 | n.a. | M20 |
| T 21 | 5 46 39 | 27°19'03 | 27°42 | 8° 0 | 5°23 | 26°43 | 19°31 | 10°41 | 29°59 | 0°40 | 22°32 | 5°R13 | 6°15 | 15°11 | n.a. | T 21 |
| W22 | 5 50 36 | 28°20'11 | 11♎36 | 7°11 | 6°38 | 27°22 | 19°24 | 10°44 | 29°58 | 0°38 | 22°31 | 5°12 | 6°12 | 15°17 | n.a. | W22 |
| T 23 | 5 54 32 | 29°21'18 | 25°51 | 6°12 | 7°54 | 28° 0 | 19°17 | 10°47 | 29°58 | 0°37 | 22°30 | 5° 9 | 6° 8 | 15°24 | n.a. | T 23 |
| F 24 | 5 58 29 | 0♑22'25 | 10♏24 | 5° 6 | 9° 9 | 28°38 | 19°10 | 10°50 | 29°57 | 0°36 | 22°28 | 5° 4 | 6° 5 | 15°31 | n.a. | F 24 |
| S 25 | 6 2 25 | 1°23'32 | 25°12 | 3°54 | 10°24 | 29°17 | 19° 2 | 10°53 | 29°56 | 0°34 | 22°27 | 4°56 | 6° 2 | 15°37 | n.a. | S 25 |
| S 26 | 6 6 22 | 2°24'38 | 10♐ 8 | 2°39 | 11°39 | 29°55 | 18°55 | 10°56 | 29°55 | 0°33 | 22°26 | 4°46 | 5°59 | 15°44 | n.a. | S 26 |
| M27 | 6 10 18 | 3°25'43 | 25° 3 | 1°22 | 12°55 | 0♏34 | 18°48 | 10°59 | 29°54 | 0°31 | 22°24 | 4°36 | 5°56 | 15°51 | n.a. | M27 |
| T 28 | 6 14 15 | 4°26'47 | 9♑48 | 0° 7 | 14°10 | 1°12 | 18°40 | 11° 1 | 29°53 | 0°30 | 22°23 | 4°27 | 5°52 | 15°58 | n.a. | T 28 |
| W29 | 6 18 12 | 5°27'50 | 24°14 | 28♐55 | 15°25 | 1°51 | 18°33 | 11° 4 | 29°52 | 0°28 | 22°22 | 4°19 | 5°49 | 16° 4 | n.a. | W29 |
| T 30 | 6 22 8 | 6°28'51 | 8♒17 | 27°48 | 16°40 | 2°29 | 18°25 | 11° 6 | 29°50 | 0°27 | 22°21 | 4°13 | 5°46 | 16°11 | n.a. | T 30 |
| F 31 | 6 26 5 | 7♑29'52 | 21♒52 | 26♐47 | 17♑55 | 3♏ 7 | 18♋17 | 11♎ 9 | 29♌49 | 0♌25 | 22♊19 | 4♍10 | 5♍43 | 16♉18 | n.a. | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| W 1 | 21 s42 | 18 s49 | 3n53 | 25 s37 | 2 s 6 | 22 s38 | 0 s24 | 4 s29 | 1n 8 | 22n39 | 0n41 | 1 s30 | 2n26 | 12n18 | 0n46 | 20n30 | 0n21 | 23n26 | 0 s 4 | 8n57 | 8n55 | 11n25 | | | n.a. |
| T 2 | 21 52 | 17 20 | 3 0 | 25 38 | 2 3 | 22 51 | 0 27 | 4 44 | 1 8 | 22 40 | 0 41 | 1 31 | 2 26 | 12 18 | 0 46 | 20 30 | 0 21 | 23 26 | 0 4 | 8 59 | 8 56 | 11 27 | | | n.a. |
| F 3 | 22 2 | 14 55 | 1 59 | 25 38 | 1 59 | 23 3 | 0 29 | 5 0 | 1 8 | 22 41 | 0 41 | 1 33 | 2 27 | 12 18 | 0 47 | 20 30 | 0 21 | 23 26 | 0 4 | 9 1 | 8 58 | 11 29 | | | n.a. |
| S 4 | 22 11 | 11 49 | 0 53 | 25 35 | 1 55 | 23 15 | 0 31 | 5 15 | 1 7 | 22 42 | 0 41 | 1 35 | 2 27 | 12 18 | 0 47 | 20 30 | 0 21 | 23 26 | 0 4 | 9 1 | 8 59 | 11 30 | | | n.a. |
| S 5 | 22 20 | 8 15 | 0 s14 | 25 31 | 1 49 | 23 26 | 0 33 | 5 30 | 1 7 | 22 43 | 0 42 | 1 36 | 2 27 | 12 18 | 0 47 | 20 30 | 0 21 | 23 26 | 0 4 | 9 1 | 9 0 | 11 32 | | | n.a. |
| M 6 | 22 29 | 4 26 | 1 18 | 25 25 | 1 43 | 23 36 | 0 36 | 5 45 | 1 7 | 22 44 | 0 42 | 1 38 | 2 27 | 12 18 | 0 47 | 20 31 | 0 21 | 23 26 | 0 4 | 9 1 | 9 1 | 11 34 | | | n.a. |
| T 7 | 22 37 | 0 30 | 2 17 | 25 17 | 1 36 | 23 46 | 0 38 | 6 0 | 1 7 | 22 45 | 0 42 | 1 40 | 2 28 | 12 18 | 0 47 | 20 31 | 0 21 | 23 26 | 0 4 | 9 2 | 9 2 | 11 35 | | | n.a. |
| W 8 | 22 44 | 3n24 | 3 10 | 25 7 | 1 28 | 23 54 | 0 40 | 6 15 | 1 6 | 22 46 | 0 42 | 1 41 | 2 28 | 12 18 | 0 47 | 20 31 | 0 21 | 23 26 | 0 4 | 9 3 | 9 4 | 11 37 | | | n.a. |
| T 9 | 22 51 | 7 9 | 3 54 | 24 56 | 1 18 | 24 2 | 0 42 | 6 30 | 1 6 | 22 47 | 0 42 | 1 43 | 2 28 | 12 18 | 0 47 | 20 31 | 0 21 | 23 26 | 0 4 | 9 6 | 9 5 | 11 39 | | | n.a. |
| F 10 | 22 58 | 10 36 | 4 28 | 24 43 | 1 8 | 24 10 | 0 44 | 6 45 | 1 6 | 22 48 | 0 43 | 1 44 | 2 28 | 12 18 | 0 47 | 20 32 | 0 21 | 23 26 | 0 4 | 9 9 | 9 6 | 11 40 | | | n.a. |
| S 11 | 23 4 | 13 39 | 4 50 | 24 29 | 0 57 | 24 16 | 0 46 | 7 0 | 1 6 | 22 49 | 0 43 | 1 46 | 2 28 | 12 18 | 0 47 | 20 32 | 0 21 | 23 26 | 0 3 | 9 14 | 9 7 | 11 42 | | | n.a. |
| S 12 | 23 10 | 16 10 | 5 0 | 24 14 | 0 44 | 24 22 | 0 48 | 7 15 | 1 5 | 22 50 | 0 43 | 1 47 | 2 29 | 12 18 | 0 47 | 20 32 | 0 22 | 23 26 | 0 3 | 9 19 | 9 8 | 11 43 | | | n.a. |
| M13 | 23 15 | 17 59 | 4 56 | 23 58 | 0 30 | 24 27 | 0 50 | 7 30 | 1 5 | 22 51 | 0 43 | 1 48 | 2 29 | 12 18 | 0 47 | 20 32 | 0 22 | 23 26 | 0 3 | 9 25 | 9 10 | 11 45 | | | n.a. |
| T 14 | 23 20 | 19 2 | 4 39 | 23 41 | 0 15 | 24 31 | 0 52 | 7 45 | 1 5 | 22 52 | 0 43 | 1 50 | 2 29 | 12 18 | 0 47 | 20 33 | 0 22 | 23 26 | 0 3 | 9 30 | 9 11 | 11 47 | | | n.a. |
| W15 | 23 24 | 19 11 | 4 9 | 23 23 | 0n 0 | 24 35 | 0 54 | 8 0 | 1 4 | 22 53 | 0 44 | 1 51 | 2 29 | 12 19 | 0 47 | 20 33 | 0 22 | 23 26 | 0 3 | 9 34 | 9 12 | 11 48 | | | n.a. |
| T 16 | 23 28 | 18 26 | 3 26 | 23 5 | 0 17 | 24 38 | 0 56 | 8 14 | 1 4 | 22 54 | 0 44 | 1 52 | 2 30 | 12 19 | 0 47 | 20 33 | 0 22 | 23 26 | 0 3 | 9 38 | 9 13 | 11 50 | | | n.a. |
| F 17 | 23 31 | 16 45 | 2 33 | 22 47 | 0 35 | 24 40 | 0 58 | 8 29 | 1 4 | 22 55 | 0 44 | 1 53 | 2 30 | 12 19 | 0 47 | 20 34 | 0 22 | 23 26 | 0 3 | 9 40 | 9 14 | 11 52 | | | n.a. |
| S 18 | 23 34 | 14 13 | 1 31 | 22 28 | 0 54 | 24 41 | 1 0 | 8 43 | 1 3 | 22 57 | 0 44 | 1 55 | 2 30 | 12 19 | 0 47 | 20 34 | 0 22 | 23 26 | 0 3 | 9 42 | 9 15 | 11 53 | | | n.a. |
| S 19 | 23 37 | 10 56 | 0 23 | 22 11 | 1 13 | 24 41 | 1 1 | 8 58 | 1 3 | 22 58 | 0 44 | 1 56 | 2 30 | 12 20 | 0 47 | 20 34 | 0 22 | 23 26 | 0 3 | 9 42 | 9 17 | 11 55 | | | n.a. |
| M20 | 23 39 | 7 2 | 0n47 | 21 53 | 1 32 | 24 41 | 1 3 | 9 12 | 1 3 | 22 59 | 0 45 | 1 57 | 2 31 | 12 20 | 0 47 | 20 34 | 0 22 | 23 26 | 0 3 | 9 42 | 9 18 | 11 57 | | | n.a. |
| T 21 | 23 40 | 2 42 | 1 57 | 21 37 | 1 51 | 24 40 | 1 5 | 9 27 | 1 2 | 23 0 | 0 45 | 1 58 | 2 31 | 12 20 | 0 47 | 20 35 | 0 22 | 23 26 | 0 3 | 9 42 | 9 19 | 11 58 | | | n.a. |
| W22 | 23 41 | 1 s52 | 3 1 | 21 21 | 2 9 | 24 38 | 1 6 | 9 41 | 1 2 | 23 1 | 0 45 | 1 59 | 2 31 | 12 20 | 0 47 | 20 35 | 0 22 | 23 26 | 0 3 | 9 42 | 9 20 | 12 0 | | | n.a. |
| T 23 | 23 42 | 6 26 | 3 55 | 21 7 | 2 27 | 24 36 | 1 8 | 9 55 | 1 2 | 23 3 | 0 45 | 2 0 | 2 31 | 12 21 | 0 47 | 20 35 | 0 22 | 23 26 | 0 3 | 9 43 | 9 21 | 12 1 | | | n.a. |
| F 24 | 23 42 | 10 44 | 4 36 | 20 53 | 2 43 | 24 32 | 1 10 | 10 9 | 1 1 | 23 4 | 0 45 | 2 1 | 2 32 | 12 21 | 0 47 | 20 36 | 0 22 | 23 26 | 0 3 | 9 45 | 9 23 | 12 3 | | | n.a. |
| S 25 | 23 41 | 14 26 | 4 59 | 20 41 | 2 57 | 24 28 | 1 11 | 10 24 | 1 1 | 23 5 | 0 46 | 2 2 | 2 32 | 12 21 | 0 47 | 20 36 | 0 22 | 23 26 | 0 3 | 9 48 | 9 24 | 12 5 | | | n.a. |
| S 26 | 23 41 | 17 14 | 5 2 | 20 31 | 3 10 | 24 23 | 1 13 | 10 38 | 1 0 | 23 6 | 0 46 | 2 3 | 2 32 | 12 22 | 0 48 | 20 36 | 0 22 | 23 26 | 0 2 | 9 52 | 9 25 | 12 6 | | | n.a. |
| M27 | 23 39 | 18 52 | 4 45 | 20 22 | 3 20 | 24 17 | 1 14 | 10 52 | 1 0 | 23 7 | 0 46 | 2 4 | 2 32 | 12 22 | 0 48 | 20 37 | 0 22 | 23 26 | 0 2 | 9 56 | 9 26 | 12 8 | | | n.a. |
| T 28 | 23 37 | 19 12 | 4 8 | 20 15 | 3 27 | 24 11 | 1 15 | 11 5 | 1 0 | 23 9 | 0 46 | 2 4 | 2 33 | 12 23 | 0 48 | 20 37 | 0 22 | 23 26 | 0 2 | 9 59 | 9 27 | 12 10 | | | n.a. |
| W29 | 23 35 | 18 17 | 3 16 | 20 9 | 3 32 | 24 4 | 1 17 | 11 19 | 0 59 | 23 10 | 0 46 | 2 5 | 2 33 | 12 23 | 0 48 | 20 37 | 0 22 | 23 26 | 0 2 | 10 2 | 9 29 | 12 11 | | | n.a. |
| T 30 | 23 32 | 16 14 | 2 14 | 20 6 | 3 35 | 23 56 | 1 18 | 11 33 | 0 59 | 23 11 | 0 46 | 2 6 | 2 33 | 12 24 | 0 48 | 20 38 | 0 22 | 23 26 | 0 2 | 10 4 | 9 30 | 12 13 | | | n.a. |
| F 31 | 23 s29 | 13 s20 | 1n 5 | 20 s 4 | 3n36 | 23 s47 | 1 s19 | 11 s47 | 0n58 | 23n12 | 0n47 | 2 s 6 | 2n33 | 12n24 | 0n48 | 20n38 | 0n22 | 23n26 | 0 s 2 | 10n 5 | 9n31 | 12n15 | | | n.a. |

Julian Day Number = 1703129.5, Delta T = 03h04m32s
Ecliptic obliquity = 23°41'55, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 3°45'18, Lahiri = - 4°38'17 Julian Calendar 1 Dec. 51 BCE == Greg. Calendar 29 Nov. 051 BCE

The year -50 astronomical counting style corresponds to year 051 B.C.E historical counting style.


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