



Astrodienst Ephemeris Tables for the year 2140

tropical geocentric zodiac

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

Programming
Dieter Koch and Alois Treindl
based on Swiss Ephemeris
Code D5EPX

ASTRODIENST EPHEMERIS for the year 2140
geocentric

JANUARY 2140

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|-------|--------|-------|-------|-------|-------|--------|-------|--------|--------|-------|-------|--------|------|
| F 1 | 6 40 15 | 9♂53'02 | 25♂36 | 22♂59 | 21♂27 | 10♂11 | 14♂1 | 15♂35 | 20♂22 | 13♂4 | 10°R50 | 26°R30 | 27♂20 | 19♂46 | 11°R 6 | F 1 |
| S 2 | 6 44 12 | 10°54'10 | 9♂51 | 24°34 | 22°39 | 10°37 | 14°14 | 15°41 | 20°24 | 13° 6 | 10♂49 | 26♂28 | 27°17 | 19°52 | 11♂2 | S 2 |
| S 3 | 6 48 9 | 11°55'17 | 23°57 | 26° 9 | 23°50 | 11° 3 | 14°27 | 15°48 | 20°25 | 13° 8 | 10°48 | 26°26 | 27°14 | 19°59 | 10°58 | S 3 |
| M 4 | 6 52 5 | 12°56'25 | 7♂50 | 27°43 | 25° 1 | 11°29 | 14°41 | 15°54 | 20°26 | 13°10 | 10°47 | 26°24 | 27°11 | 20° 6 | 10°54 | M 4 |
| T 5 | 6 56 2 | 13°57'33 | 21°27 | 29°16 | 26°12 | 11°54 | 14°54 | 16° 1 | 20°27 | 13°12 | 10°46 | 26°D24 | 27° 8 | 20°12 | 10°50 | T 5 |
| W 6 | 6 59 58 | 14°58'41 | 4♂45 | 0♂48 | 27°23 | 12°19 | 15° 7 | 16° 7 | 20°29 | 13°14 | 10°45 | 26°24 | 27° 5 | 20°19 | 10°46 | W 6 |
| T 7 | 7 3 55 | 15°59'49 | 17°43 | 2°20 | 28°33 | 12°44 | 15°21 | 16°14 | 20°30 | 13°16 | 10°44 | 26°25 | 27° 1 | 20°26 | 10°42 | T 7 |
| F 8 | 7 7 51 | 17° 0'57 | 0♂23 | 3°49 | 29°44 | 13° 8 | 15°34 | 16°20 | 20°31 | 13°18 | 10°43 | 26°25 | 26°58 | 20°33 | 10°37 | F 8 |
| S 9 | 7 11 48 | 18° 2'05 | 12°46 | 5°17 | 0♂54 | 13°32 | 15°47 | 16°27 | 20°32 | 13°20 | 10°43 | 26°26 | 26°55 | 20°39 | 10°33 | S 9 |
| S 10 | 7 15 44 | 19° 3'14 | 24°55 | 6°43 | 2° 5 | 13°56 | 16° 1 | 16°33 | 20°32 | 13°22 | 10°42 | 26°27 | 26°52 | 20°46 | 10°29 | S 10 |
| M 11 | 7 19 41 | 20° 4'22 | 6♂54 | 8° 7 | 3°15 | 14°20 | 16°15 | 16°40 | 20°33 | 13°24 | 10°41 | 26°28 | 26°49 | 20°53 | 10°25 | M 11 |
| T 12 | 7 23 38 | 21° 5'31 | 18°47 | 9°27 | 4°25 | 14°43 | 16°28 | 16°47 | 20°34 | 13°26 | 10°40 | 26°R28 | 26°46 | 21° 0 | 10°21 | T 12 |
| W 13 | 7 27 34 | 22° 6'39 | 0♂40 | 10°44 | 5°35 | 15° 6 | 16°42 | 16°53 | 20°35 | 13°28 | 10°39 | 26°28 | 26°42 | 21° 6 | 10°17 | W 13 |
| T 14 | 7 31 31 | 23° 7'48 | 12°36 | 11°57 | 6°45 | 15°29 | 16°56 | 17° 0 | 20°35 | 13°30 | 10°38 | 26°28 | 26°39 | 21°13 | 10°13 | T 14 |
| F 15 | 7 35 27 | 24° 8'57 | 24°41 | 13° 5 | 7°54 | 15°52 | 17° 9 | 17° 7 | 20°36 | 13°31 | 10°38 | 26°27 | 26°36 | 21°20 | 10°10 | F 15 |
| S 16 | 7 39 24 | 25°10'05 | 6♂58 | 14° 7 | 9° 4 | 16°14 | 17°23 | 17°14 | 20°37 | 13°33 | 10°37 | 26°27 | 26°33 | 21°26 | 10° 6 | S 16 |
| S 17 | 7 43 20 | 26°11'14 | 19°32 | 15° 3 | 10°13 | 16°36 | 17°37 | 17°21 | 20°37 | 13°35 | 10°36 | 26°D27 | 26°30 | 21°33 | 10° 2 | S 17 |
| M 18 | 7 47 17 | 27°12'22 | 2♂23 | 15°52 | 11°23 | 16°57 | 17°51 | 17°28 | 20°38 | 13°37 | 10°35 | 26°27 | 26°26 | 21°40 | 9°58 | M 18 |
| T 19 | 7 51 14 | 28°13'30 | 15°33 | 16°33 | 12°32 | 17°18 | 18° 5 | 17°35 | 20°38 | 13°39 | 10°35 | 26°27 | 26°23 | 21°47 | 9°54 | T 19 |
| W 20 | 7 55 10 | 29°14'37 | 29° 2 | 17° 4 | 13°41 | 17°39 | 18°19 | 17°42 | 20°38 | 13°40 | 10°34 | 26°R27 | 26°20 | 21°53 | 9°50 | W 20 |
| T 21 | 7 59 7 | 0♂15'44 | 12♂48 | 17°26 | 14°49 | 17°59 | 18°33 | 17°48 | 20°39 | 13°42 | 10°33 | 26°27 | 26°17 | 22° 0 | 9°47 | T 21 |
| F 22 | 8 3 3 | 1°16'51 | 26°48 | 17°R37 | 15°58 | 18°19 | 18°47 | 17°55 | 20°39 | 13°44 | 10°32 | 26°27 | 26°14 | 22° 7 | 9°43 | F 22 |
| S 23 | 8 7 0 | 2°17'56 | 10♂58 | 17°37 | 17° 6 | 18°39 | 19° 1 | 18° 2 | 20°39 | 13°45 | 10°32 | 26°26 | 26°11 | 22°13 | 9°39 | S 23 |
| S 24 | 8 10 56 | 3°19'01 | 25°14 | 17°25 | 18°15 | 18°58 | 19°15 | 18°10 | 20°39 | 13°47 | 10°31 | 26°25 | 26° 7 | 22°20 | 9°36 | S 24 |
| M 25 | 8 14 53 | 4°20'04 | 9♂32 | 17° 2 | 19°23 | 19°17 | 19°29 | 18°17 | 20°R39 | 13°49 | 10°31 | 26°25 | 26° 4 | 22°27 | 9°32 | M 25 |
| T 26 | 8 18 49 | 5°21'07 | 23°48 | 16°27 | 20°31 | 19°36 | 19°43 | 18°24 | 20°39 | 13°50 | 10°30 | 26°24 | 26° 1 | 22°34 | 9°29 | T 26 |
| W 27 | 8 22 46 | 6°22'09 | 8♂ 0 | 15°42 | 21°38 | 19°54 | 19°57 | 18°31 | 20°39 | 13°52 | 10°29 | 26°D24 | 25°58 | 22°40 | 9°25 | W 27 |
| T 28 | 8 26 43 | 7°23'10 | 22° 5 | 14°47 | 22°46 | 20°11 | 20°11 | 18°38 | 20°39 | 13°53 | 10°29 | 26°24 | 25°55 | 22°47 | 9°22 | T 28 |
| F 29 | 8 30 39 | 8°24'10 | 6♂12 | 13°44 | 23°53 | 20°29 | 20°26 | 18°45 | 20°39 | 13°55 | 10°28 | 26°25 | 25°52 | 22°54 | 9°18 | F 29 |
| S 30 | 8 34 36 | 9°25'08 | 19°49 | 12°35 | 25° 0 | 20°46 | 20°40 | 18°52 | 20°38 | 13°56 | 10°28 | 26°26 | 25°48 | 23° 1 | 9°15 | S 30 |
| S 31 | 8 38 32 | 10♂26'06 | 3♂26 | 11♂21 | 26♂7 | 21♂2 | 20♂54 | 18♂59 | 20♂38 | 13♂58 | 10♂27 | 26♂27 | 25♂45 | 23♂7 | 9♂12 | S 31 |

| Day | ☉ | ☾ | | ♂ | | ♀ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | |
|------|-------|-------|------|-------|------|-------|------|------|------|-------|------|-------|------|------|------|-------|------|-------|-------|-------|-------|-------|-------|------|-----|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat |
| F 1 | 23s 3 | 23n36 | 4n36 | 23s36 | 2s10 | 16s 6 | 1s51 | 1s59 | 2n13 | 17s17 | 0s42 | 17s 3 | 0s56 | 7s21 | 0n39 | 20s52 | 1n30 | 10n34 | 11s36 | 20s50 | 20s41 | 12s26 | 15n50 | 7s 9 | |
| S 2 | 22 58 | 25 42 | 3 50 | 23 18 | 2 9 | 15 41 | 1 49 | 2 9 | 2 14 | 17 13 | 0 42 | 17 1 | 0 56 | 7 22 | 0 39 | 20 52 | 1 30 | 10 34 | 11 35 | 20 51 | 20 41 | 12 29 | 15 50 | 7 9 | |
| S 3 | 22 53 | 26 7 | 2 50 | 22 58 | 2 6 | 15 15 | 1 47 | 2 18 | 2 15 | 17 9 | 0 42 | 16 59 | 0 56 | 7 22 | 0 39 | 20 52 | 1 30 | 10 34 | 11 35 | 20 51 | 20 42 | 12 32 | 15 50 | 7 9 | |
| M 4 | 22 48 | 24 52 | 1 41 | 22 38 | 2 4 | 14 50 | 1 45 | 2 27 | 2 15 | 17 5 | 0 42 | 16 57 | 0 56 | 7 23 | 0 39 | 20 53 | 1 30 | 10 34 | 11 35 | 20 51 | 20 42 | 12 34 | 15 51 | 7 9 | |
| T 5 | 22 41 | 22 10 | 0 27 | 22 15 | 2 0 | 14 24 | 1 43 | 2 37 | 2 16 | 17 1 | 0 42 | 16 55 | 0 56 | 7 23 | 0 39 | 20 53 | 1 30 | 10 34 | 11 35 | 20 51 | 20 43 | 12 37 | 15 51 | 7 9 | |
| W 6 | 22 35 | 18 19 | 0s46 | 21 51 | 1 57 | 13 58 | 1 41 | 2 46 | 2 17 | 16 57 | 0 42 | 16 53 | 0 56 | 7 24 | 0 39 | 20 53 | 1 30 | 10 34 | 11 35 | 20 51 | 20 44 | 12 40 | 15 51 | 7 9 | |
| T 7 | 22 28 | 13 41 | 1 55 | 21 27 | 1 52 | 13 31 | 1 39 | 2 55 | 2 18 | 16 53 | 0 42 | 16 52 | 0 56 | 7 24 | 0 39 | 20 53 | 1 30 | 10 34 | 11 35 | 20 51 | 20 44 | 12 42 | 15 52 | 7 9 | |
| F 8 | 22 20 | 8 34 | 2 57 | 21 0 | 1 46 | 13 4 | 1 37 | 3 3 | 2 19 | 16 50 | 0 42 | 16 50 | 0 56 | 7 24 | 0 39 | 20 54 | 1 30 | 10 34 | 11 34 | 20 51 | 20 45 | 12 45 | 15 52 | 7 9 | |
| S 9 | 22 12 | 3 14 | 3 50 | 20 33 | 1 40 | 12 37 | 1 34 | 3 12 | 2 19 | 16 46 | 0 42 | 16 48 | 0 56 | 7 25 | 0 39 | 20 54 | 1 30 | 10 34 | 11 34 | 20 51 | 20 46 | 12 48 | 15 52 | 7 9 | |
| S 10 | 22 4 | 2s 7 | 4 30 | 20 5 | 1 33 | 12 9 | 1 31 | 3 21 | 2 20 | 16 42 | 0 42 | 16 46 | 0 56 | 7 25 | 0 39 | 20 54 | 1 30 | 10 35 | 11 34 | 20 51 | 20 46 | 12 50 | 15 52 | 7 9 | |
| M11 | 21 55 | 7 18 | 4 59 | 19 36 | 1 25 | 11 41 | 1 29 | 3 29 | 2 21 | 16 37 | 0 42 | 16 44 | 0 57 | 7 25 | 0 39 | 20 54 | 1 30 | 10 35 | 11 34 | 20 51 | 20 47 | 12 53 | 15 53 | 7 9 | |
| T 12 | 21 46 | 12 12 | 5 14 | 19 6 | 1 16 | 11 13 | 1 26 | 3 37 | 2 22 | 16 33 | 0 42 | 16 42 | 0 57 | 7 25 | 0 39 | 20 54 | 1 30 | 10 35 | 11 34 | 20 51 | 20 47 | 12 56 | 15 53 | 7 9 | |
| W13 | 21 37 | 16 38 | 5 16 | 18 36 | 1 7 | 10 45 | 1 23 | 3 45 | 2 22 | 16 29 | 0 42 | 16 40 | 0 57 | 7 26 | 0 39 | 20 55 | 1 30 | 10 35 | 11 33 | 20 51 | 20 48 | 12 58 | 15 54 | 7 9 | |
| T 14 | 21 26 | 20 26 | 5 5 | 18 6 | 0 56 | 10 16 | 1 20 | 3 53 | 2 23 | 16 25 | 0 42 | 16 38 | 0 57 | 7 26 | 0 39 | 20 55 | 1 30 | 10 35 | 11 33 | 20 51 | 20 49 | 13 1 | 15 54 | 7 9 | |
| F 15 | 21 16 | 23 26 | 4 39 | 17 35 | 0 44 | 9 47 | 1 17 | 4 1 | 2 24 | 16 21 | 0 42 | 16 36 | 0 57 | 7 26 | 0 39 | 20 55 | 1 30 | 10 35 | 11 33 | 20 51 | 20 49 | 13 4 | 15 54 | 7 9 | |
| S 16 | 21 5 | 25 25 | 4 1 | 17 5 | 0 32 | 9 18 | 1 13 | 4 9 | 2 25 | 16 17 | 0 42 | 16 34 | 0 57 | 7 26 | 0 39 | 20 55 | 1 30 | 10 35 | 11 33 | 20 51 | 20 50 | 13 6 | 15 55 | 7 9 | |
| S 17 | 20 54 | 26 11 | 3 11 | 16 36 | 0 18 | 8 49 | 1 10 | 4 17 | 2 26 | 16 13 | 0 42 | 16 31 | 0 57 | 7 26 | 0 39 | 20 55 | 1 30 | 10 35 | 11 33 | 20 51 | 20 50 | 13 9 | 15 55 | 7 9 | |
| M18 | 20 42 | 25 34 | 2 10 | 16 7 | 0 3 | 8 19 | 1 7 | 4 24 | 2 26 | 16 9 | 0 42 | 16 29 | 0 57 | 7 27 | 0 39 | 20 56 | 1 30 | 10 35 | 11 32 | 20 51 | 20 51 | 13 11 | 15 55 | 7 9 | |
| T 19 | 20 30 | 23 31 | 1 0 | 15 40 | 0n12 | 7 49 | 1 3 | 4 31 | 2 27 | 16 4 | 0 42 | 16 27 | 0 57 | 7 27 | 0 39 | 20 56 | 1 30 | 10 35 | 11 32 | 20 51 | 20 52 | 13 14 | 15 56 | 7 8 | |
| W20 | 20 18 | 20 6 | 0n14 | 15 15 | 0 29 | 7 20 | 0 59 | 4 38 | 2 28 | 16 0 | 0 42 | 16 25 | 0 57 | 7 27 | 0 39 | 20 56 | 1 30 | 10 36 | 11 32 | 20 51 | 20 52 | 13 17 | 15 56 | 7 8 | |
| T 21 | 20 5 | 15 32 | 1 29 | 14 52 | 0 46 | 6 50 | 0 56 | 4 45 | 2 29 | 15 56 | 0 42 | 16 23 | 0 57 | 7 27 | 0 39 | 20 56 | 1 30 | 10 36 | 11 32 | 20 51 | 20 53 | 13 19 | 15 57 | 7 8 | |
| F 22 | 19 52 | 10 4 | 2 40 | 14 32 | 1 4 | 6 20 | 0 52 | 4 52 | 2 30 | 15 51 | 0 42 | 16 21 | 0 57 | 7 27 | 0 39 | 20 56 | 1 30 | 10 36 | 11 31 | 20 51 | 20 53 | 13 22 | 15 57 | 7 8 | |
| S 23 | 19 38 | 4 1 | 3 42 | 14 15 | 1 22 | 5 49 | 0 48 | 4 59 | 2 30 | 15 47 | 0 42 | 16 19 | 0 57 | 7 27 | 0 39 | 20 56 | 1 30 | 10 36 | 11 31 | 20 51 | 20 54 | 13 24 | 15 58 | 7 8 | |
| S 24 | 19 24 | 2n15 | 4 31 | 14 1 | 1 40 | 5 19 | 0 44 | 5 6 | 2 31 | 15 43 | 0 42 | 16 17 | 0 57 | 7 27 | 0 39 | 20 57 | 1 30 | 10 36 | 11 31 | 20 51 | 20 55 | 13 27 | 15 58 | 7 8 | |
| M25 | 19 10 | 8 25 | 5 3 | 13 50 | 1 58 | 4 48 | 0 39 | 5 12 | 2 32 | 15 38 | 0 43 | 16 15 | 0 57 | 7 27 | 0 40 | 20 57 | 1 30 | 10 36 | 11 31 | 20 51 | 20 55 | 13 30 | 15 58 | 7 7 | |
| T 26 | 18 55 | 14 8 | 5 16 | 13 44 | 2 16 | 4 18 | 0 35 | 5 18 | 2 33 | 15 34 | 0 43 | 16 13 | 0 57 | 7 27 | 0 40 | 20 57 | 1 30 | 10 36 | 11 31 | 20 51 | 20 56 | 13 32 | 15 59 | 7 7 | |
| W27 | 18 40 | 19 3 | 5 10 | 13 41 | 2 33 | 3 47 | 0 31 | 5 24 | 2 34 | 15 30 | 0 43 | 16 10 | 0 57 | 7 27 | 0 40 | 20 57 | 1 30 | 10 37 | 11 30 | 20 51 | 20 56 | 13 35 | 15 59 | 7 7 | |
| T 28 | 18 25 | 22 52 | 4 45 | 13 43 | 2 48 | 3 16 | 0 26 | 5 30 | 2 34 | 15 25 | 0 43 | 16 8 | 0 57 | 7 27 | 0 40 | 20 57 | 1 30 | 10 37 | 11 30 | 20 51 | 20 57 | 13 37 | 16 0 | 7 7 | |
| F 29 | 18 9 | 25 18 | 4 4 | 13 47 | 3 2 | 2 46 | 0 22 | 5 36 | 2 35 | 15 21 | 0 43 | 16 6 | 0 57 | 7 27 | 0 40 | 20 57 | 1 30 | 10 37 | 11 30 | 20 51 | 20 58 | 13 40 | 16 0 | 7 6 | |
| S 30 | 17 53 | 26 10 | 3 9 | 13 55 | 3 13 | 2 15 | 0 17 | 5 41 | 2 36 | 15 16 | 0 43 | 16 4 | 0 57 | 7 27 | 0 40 | 20 58 | 1 30 | 10 37 | 11 30 | 20 51 | 20 58 | 13 42 | 16 1 | 7 6 | |
| S 31 | 17s37 | 25n27 | 2n 4 | 14s 6 | 3n23 | 1s44 | 0s12 | 5s47 | 2n37 | 15s12 | 0s43 | 16s 2 | 0s57 | 7s26 | 0n40 | 20s58 | 1n31 | 10n37 | 11s29 | 20s51 | 20s59 | 13s45 | 16n 1 | 7s 6 | |

ASTRODIENST EPHEMERIS for the year 2140
geocentric

FEBRUARY 2140

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|-----------------------|---------------------|---------------------|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------------------|------|
| M 1 | 8 42 29 | 11 ²⁷ 02 | 16 ⁵⁰ 50 | 10°R 6 | 27 ¹¹ 13 | 21 ¹⁸ 18 | 21 ¹⁸ 8 | 19 ¹⁸ 6 | 20°R38 | 13 ¹⁷ 59 | 10°R27 | 26 ³⁸ 28 | 25 ³⁸ 42 | 23 ¹⁴ 14 | 9°R 8 | M 1 |
| T 2 | 8 46 25 | 12 ²⁷ 57 | 0 ⁰ 2 | 8 ¹⁸ 51 | 28°19 | 21°33 | 21°23 | 19°14 | 20 ¹⁸ 37 | 14° 1 | 10 ¹⁸ 26 | 26°R28 | 25°39 | 23°21 | 9 ¹⁸ 5 | T 2 |
| W 3 | 8 50 22 | 13°28'52 | 13° 1 | 7°38 | 29°25 | 21°48 | 21°37 | 19°21 | 20°37 | 14° 2 | 10°26 | 26°27 | 25°36 | 23°27 | 9° 2 | W 3 |
| T 4 | 8 54 18 | 14°29'45 | 25°46 | 6°30 | 0 ⁰ Y31 | 22° 3 | 21°51 | 19°28 | 20°36 | 14° 3 | 10°25 | 26°26 | 25°32 | 23°34 | 8°59 | T 4 |
| F 5 | 8 58 15 | 15°30'37 | 8 ¹⁸ 18 | 5°28 | 1°37 | 22°17 | 22° 6 | 19°35 | 20°36 | 14° 5 | 10°25 | 26°23 | 25°29 | 23°41 | 8°56 | F 5 |
| S 6 | 9 2 12 | 16°31'28 | 20°37 | 4°32 | 2°42 | 22°31 | 22°20 | 19°42 | 20°35 | 14° 6 | 10°25 | 26°20 | 25°26 | 23°48 | 8°53 | S 6 |
| S 7 | 9 6 8 | 17°32'19 | 2 ¹⁸ 44 | 3°44 | 3°47 | 22°44 | 22°34 | 19°49 | 20°35 | 14° 7 | 10°24 | 26°16 | 25°23 | 23°54 | 8°50 | S 7 |
| M 8 | 9 10 5 | 18°33'08 | 14°43 | 3° 4 | 4°51 | 22°56 | 22°49 | 19°57 | 20°34 | 14° 8 | 10°24 | 26°13 | 25°20 | 24° 1 | 8°47 | M 8 |
| T 9 | 9 14 1 | 19°33'56 | 26°37 | 2°33 | 5°56 | 23° 8 | 23° 3 | 20° 4 | 20°33 | 14°10 | 10°24 | 26°10 | 25°17 | 24° 8 | 8°45 | T 9 |
| W10 | 9 17 58 | 20°34'44 | 8 ¹⁸ 29 | 2°10 | 7° 0 | 23°20 | 23°17 | 20°11 | 20°32 | 14°11 | 10°23 | 26° 8 | 25°13 | 24°15 | 8°42 | W10 |
| T 11 | 9 21 54 | 21°35'30 | 20°24 | 1°56 | 8° 3 | 23°31 | 23°32 | 20°18 | 20°31 | 14°12 | 10°23 | 26°D 8 | 25°10 | 24°21 | 8°40 | T 11 |
| F 12 | 9 25 51 | 22°36'16 | 2 ¹⁸ 27 | 1°D49 | 9° 7 | 23°41 | 23°46 | 20°25 | 20°30 | 14°13 | 10°23 | 26° 8 | 25° 7 | 24°28 | 8°37 | F 12 |
| S 13 | 9 29 47 | 23°37'00 | 14°42 | 1°50 | 10°10 | 23°51 | 24° 1 | 20°33 | 20°29 | 14°14 | 10°22 | 26° 9 | 25° 4 | 24°35 | 8°35 | S 13 |
| S 14 | 9 33 44 | 24°37'44 | 27°15 | 1°58 | 11°13 | 24° 0 | 24°15 | 20°40 | 20°28 | 14°15 | 10°22 | 26°11 | 25° 1 | 24°41 | 8°32 | S 14 |
| M15 | 9 37 41 | 25°38'26 | 10 ¹⁸ 8 | 2°12 | 12°15 | 24° 8 | 24°29 | 20°47 | 20°27 | 14°16 | 10°22 | 26°13 | 24°58 | 24°48 | 8°30 | M15 |
| T 16 | 9 41 37 | 26°39'08 | 23°26 | 2°33 | 13°17 | 24°16 | 24°44 | 20°54 | 20°26 | 14°17 | 10°22 | 26°R14 | 24°54 | 24°55 | 8°28 | T 16 |
| W17 | 9 45 34 | 27°39'48 | 7 ¹⁸ 8 | 2°59 | 14°19 | 24°24 | 24°58 | 21° 1 | 20°25 | 14°18 | 10°22 | 26°13 | 24°51 | 25° 2 | 8°26 | W17 |
| T 18 | 9 49 30 | 28°40'27 | 21°13 | 3°30 | 15°20 | 24°30 | 25°12 | 21° 9 | 20°24 | 14°19 | 10°22 | 26°11 | 24°48 | 25° 8 | 8°23 | T 18 |
| F 19 | 9 53 27 | 29°41'04 | 5 ¹⁸ 38 | 4° 6 | 16°21 | 24°36 | 25°27 | 21°16 | 20°22 | 14°20 | 10°21 | 26° 7 | 24°45 | 25°15 | 8°21 | F 19 |
| S 20 | 9 57 23 | 0 ¹⁸ 41'39 | 20°18 | 4°47 | 17°21 | 24°42 | 25°41 | 21°23 | 20°21 | 14°21 | 10°21 | 26° 3 | 24°42 | 25°22 | 8°20 | S 20 |
| S 21 | 10 1 20 | 1°42'13 | 5 ¹⁸ Y 4 | 5°32 | 18°21 | 24°46 | 25°56 | 21°30 | 20°20 | 14°22 | 10°21 | 25°57 | 24°38 | 25°28 | 8°18 | S 21 |
| M22 | 10 5 16 | 2°42'46 | 19°49 | 6°20 | 19°20 | 24°50 | 26°10 | 21°37 | 20°18 | 14°22 | 10°21 | 25°52 | 24°35 | 25°35 | 8°16 | M22 |
| T 23 | 10 9 13 | 3°43'16 | 4 ¹⁸ 25 | 7°12 | 20°19 | 24°54 | 26°24 | 21°44 | 20°17 | 14°23 | 10°D21 | 25°47 | 24°32 | 25°42 | 8°14 | T 23 |
| W24 | 10 13 10 | 4°43'45 | 18°48 | 8° 7 | 21°18 | 24°56 | 26°39 | 21°51 | 20°15 | 14°24 | 10°21 | 25°44 | 24°29 | 25°49 | 8°13 | W24 |
| T 25 | 10 17 6 | 5°44'12 | 2 ¹⁸ 55 | 9° 5 | 22°16 | 24°58 | 26°53 | 21°58 | 20°14 | 14°25 | 10°21 | 25°D43 | 24°26 | 25°55 | 8°11 | T 25 |
| F 26 | 10 21 3 | 6°44'37 | 16°44 | 10° 6 | 23°13 | 25° 0 | 27° 7 | 22° 6 | 20°12 | 14°25 | 10°21 | 25°44 | 24°23 | 26° 2 | 8°10 | F 26 |
| S 27 | 10 24 59 | 7°45'00 | 0 ¹⁸ 15 | 11° 9 | 24°10 | 25°R 0 | 27°21 | 22°13 | 20°11 | 14°26 | 10°21 | 25°45 | 24°19 | 26° 9 | 8° 9 | S 27 |
| S 28 | 10 28 56 | 8°45'21 | 13°31 | 12°15 | 25° 7 | 25° 0 | 27°36 | 22°20 | 20° 9 | 14°26 | 10°21 | 25°46 | 24°16 | 26°16 | 8° 7 | S 28 |
| M29 | 10 32 52 | 9 ¹⁸ 45'41 | 26 ¹⁸ 33 | 13 ¹⁸ 22 | 26 ¹⁸ Y 3 | 24 ¹⁸ 59 | 27 ¹⁸ 50 | 22 ¹⁸ 27 | 20 ¹⁸ 7 | 14 ¹⁸ 27 | 10 ¹⁸ 22 | 25°R47 | 24 ¹⁸ 13 | 26 ¹⁸ 22 | 8 ¹⁸ 6 | M29 |

| Day | ☉ | ☾ | | ♀ | | ♀ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | |
|------|-------|-------|------|-------|------|-------|------|------|------|-------|------|-------|------|------|------|-------|------|-------|-------|-------|-------|-------|-------|------|-----|------|-----|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat |
| M 1 | 17s20 | 23n14 | 0n53 | 14s20 | 3n30 | 1s13 | 0s 8 | 5s52 | 2n38 | 15s 7 | 0s43 | 16s 0 | 0s57 | 7s26 | 0n40 | 20s58 | 1n31 | 10n38 | 11s29 | 20s51 | 20s59 | 13s48 | 16n 2 | 7s 6 | | | |
| T 2 | 17 3 | 19 48 | 0s20 | 14 35 | 3 35 | 0 42 | 0 3 | 5 57 | 2 38 | 15 3 | 0 43 | 15 57 | 0 57 | 7 26 | 0 40 | 20 58 | 1 31 | 10 38 | 11 29 | 20 51 | 21 0 | 13 50 | 16 2 | 7 5 | | | |
| W 3 | 16 46 | 15 27 | 1 30 | 14 51 | 3 37 | 0 12 | 0n 2 | 6 2 | 2 39 | 14 58 | 0 43 | 15 55 | 0 57 | 7 26 | 0 40 | 20 58 | 1 31 | 10 38 | 11 29 | 20 51 | 21 0 | 13 53 | 16 3 | 7 5 | | | |
| T 4 | 16 28 | 10 29 | 2 35 | 15 8 | 3 37 | 0n19 | 0 8 | 6 6 | 2 40 | 14 54 | 0 43 | 15 53 | 0 58 | 7 26 | 0 40 | 20 58 | 1 31 | 10 38 | 11 28 | 20 51 | 21 1 | 13 55 | 16 3 | 7 5 | | | |
| F 5 | 16 10 | 5 12 | 3 31 | 15 26 | 3 34 | 0 50 | 0 13 | 6 11 | 2 41 | 14 49 | 0 43 | 15 51 | 0 58 | 7 25 | 0 40 | 20 58 | 1 31 | 10 38 | 11 28 | 20 52 | 21 2 | 13 58 | 16 4 | 7 4 | | | |
| S 6 | 15 52 | 0s12 | 4 16 | 15 43 | 3 30 | 1 21 | 0 18 | 6 15 | 2 42 | 14 44 | 0 43 | 15 49 | 0 58 | 7 25 | 0 40 | 20 58 | 1 31 | 10 39 | 11 28 | 20 52 | 21 2 | 14 0 | 16 4 | 7 4 | | | |
| S 7 | 15 34 | 5 30 | 4 48 | 16 0 | 3 23 | 1 52 | 0 23 | 6 19 | 2 42 | 14 40 | 0 43 | 15 46 | 0 58 | 7 25 | 0 40 | 20 59 | 1 31 | 10 39 | 11 28 | 20 53 | 21 3 | 14 3 | 16 5 | 7 4 | | | |
| M 8 | 15 15 | 10 32 | 5 8 | 16 17 | 3 16 | 2 22 | 0 29 | 6 23 | 2 43 | 14 35 | 0 43 | 15 44 | 0 58 | 7 25 | 0 40 | 20 59 | 1 31 | 10 39 | 11 27 | 20 54 | 21 3 | 14 5 | 16 5 | 7 3 | | | |
| T 9 | 14 56 | 15 8 | 5 14 | 16 33 | 3 7 | 2 53 | 0 34 | 6 27 | 2 44 | 14 30 | 0 43 | 15 42 | 0 58 | 7 24 | 0 40 | 20 59 | 1 31 | 10 39 | 11 27 | 20 54 | 21 4 | 14 8 | 16 6 | 7 3 | | | |
| W10 | 14 37 | 19 10 | 5 7 | 16 47 | 2 57 | 3 23 | 0 40 | 6 30 | 2 45 | 14 26 | 0 43 | 15 40 | 0 58 | 7 24 | 0 40 | 20 59 | 1 31 | 10 39 | 11 27 | 20 54 | 21 5 | 14 10 | 16 6 | 7 3 | | | |
| T 11 | 14 18 | 22 26 | 4 47 | 17 1 | 2 46 | 3 54 | 0 46 | 6 33 | 2 46 | 14 21 | 0 44 | 15 37 | 0 58 | 7 24 | 0 40 | 20 59 | 1 31 | 10 40 | 11 26 | 20 55 | 21 5 | 14 13 | 16 7 | 7 2 | | | |
| F 12 | 13 58 | 24 46 | 4 13 | 17 14 | 2 35 | 4 24 | 0 51 | 6 36 | 2 46 | 14 16 | 0 44 | 15 35 | 0 58 | 7 23 | 0 40 | 20 59 | 1 31 | 10 40 | 11 26 | 20 54 | 21 6 | 14 15 | 16 7 | 7 2 | | | |
| S 13 | 13 38 | 26 0 | 3 28 | 17 25 | 2 23 | 5 54 | 0 57 | 6 39 | 2 47 | 14 12 | 0 44 | 15 33 | 0 58 | 7 23 | 0 40 | 20 59 | 1 31 | 10 40 | 11 26 | 20 54 | 21 6 | 14 18 | 16 8 | 7 2 | | | |
| S 14 | 13 18 | 25 56 | 2 32 | 17 35 | 2 11 | 5 24 | 1 3 | 6 42 | 2 48 | 14 7 | 0 44 | 15 31 | 0 58 | 7 22 | 0 40 | 20 59 | 1 31 | 10 40 | 11 26 | 20 54 | 21 7 | 14 20 | 16 9 | 7 1 | | | |
| M15 | 12 58 | 24 29 | 1 27 | 17 43 | 1 59 | 5 54 | 1 9 | 6 44 | 2 49 | 14 2 | 0 44 | 15 29 | 0 58 | 7 22 | 0 40 | 20 59 | 1 31 | 10 41 | 11 25 | 20 54 | 21 7 | 14 23 | 16 9 | 7 1 | | | |
| T 16 | 12 37 | 21 39 | 0 15 | 17 51 | 1 47 | 6 24 | 1 15 | 6 47 | 2 49 | 13 58 | 0 44 | 15 26 | 0 58 | 7 22 | 0 40 | 20 59 | 1 31 | 10 41 | 11 25 | 20 53 | 21 8 | 14 25 | 16 10 | 7 0 | | | |
| W17 | 12 17 | 17 31 | 0n59 | 17 57 | 1 35 | 6 53 | 1 21 | 6 49 | 2 50 | 13 53 | 0 44 | 15 24 | 0 58 | 7 21 | 0 40 | 20 59 | 1 31 | 10 41 | 11 25 | 20 54 | 21 9 | 14 28 | 16 10 | 7 0 | | | |
| T 18 | 11 56 | 12 20 | 2 12 | 18 1 | 1 23 | 7 23 | 1 28 | 6 50 | 2 51 | 13 48 | 0 44 | 15 22 | 0 58 | 7 21 | 0 40 | 20 59 | 1 31 | 10 41 | 11 25 | 20 54 | 21 9 | 14 30 | 16 11 | 6 59 | | | |
| F 19 | 11 34 | 6 22 | 3 18 | 18 4 | 1 11 | 7 52 | 1 34 | 6 52 | 2 52 | 13 43 | 0 44 | 15 20 | 0 59 | 7 20 | 0 40 | 20 59 | 1 31 | 10 42 | 11 24 | 20 55 | 21 10 | 14 33 | 16 11 | 6 59 | | | |
| S 20 | 11 13 | 0n 2 | 4 13 | 18 6 | 0 59 | 8 21 | 1 40 | 6 53 | 2 52 | 13 39 | 0 44 | 15 17 | 0 59 | 7 20 | 0 40 | 21 0 | 1 31 | 10 42 | 11 24 | 20 56 | 21 10 | 14 35 | 16 12 | 6 59 | | | |
| S 21 | 10 52 | 6 27 | 4 50 | 18 6 | 0 47 | 8 50 | 1 47 | 6 54 | 2 53 | 13 34 | 0 44 | 15 15 | 0 59 | 7 19 | 0 40 | 21 0 | 1 31 | 10 42 | 11 24 | 20 57 | 21 11 | 14 38 | 16 12 | 6 58 | | | |
| M22 | 10 30 | 12 30 | 5 9 | 18 5 | 0 36 | 9 18 | 1 53 | 6 55 | 2 54 | 13 29 | 0 44 | 15 13 | 0 59 | 7 18 | 0 40 | 21 0 | 1 31 | 10 42 | 11 23 | 20 58 | 21 11 | 14 40 | 16 13 | 6 58 | | | |
| T 23 | 10 8 | 17 48 | 5 7 | 18 3 | 0 25 | 9 47 | 1 59 | 6 56 | 2 54 | 13 24 | 0 44 | 15 11 | 0 59 | 7 18 | 0 40 | 21 0 | 1 31 | 10 43 | 11 23 | 20 58 | 21 12 | 14 43 | 16 14 | 6 57 | | | |
| W24 | 9 46 | 21 59 | 4 46 | 17 59 | 0 15 | 10 15 | 2 6 | 6 56 | 2 55 | 13 19 | 0 45 | 15 9 | 0 59 | 7 17 | 0 40 | 21 0 | 1 32 | 10 43 | 11 23 | 20 59 | 21 13 | 14 45 | 16 14 | 6 57 | | | |
| T 25 | 9 24 | 24 46 | 4 8 | 17 54 | 0 4 | 10 43 | 2 13 | 6 56 | 2 55 | 13 15 | 0 45 | 15 6 | 0 59 | 7 17 | 0 40 | 21 0 | 1 32 | 10 43 | 11 23 | 20 59 | 21 13 | 14 48 | 16 15 | 6 56 | | | |
| F 26 | 9 2 | 26 0 | 3 16 | 17 48 | 0s 6 | 11 10 | 2 19 | 6 56 | 2 56 | 13 10 | 0 45 | 15 4 | 0 59 | 7 16 | 0 40 | 21 0 | 1 32 | 10 44 | 11 22 | 20 59 | 21 14 | 14 50 | 16 15 | 6 56 | | | |
| S 27 | 8 39 | 25 39 | 2 14 | 17 40 | 0 16 | 11 38 | 2 26 | 6 56 | 2 57 | 13 5 | 0 45 | 15 2 | 0 59 | 7 15 | 0 40 | 21 0 | 1 32 | 10 44 | 11 22 | 20 59 | 21 14 | 14 53 | 16 16 | 6 55 | | | |
| S 28 | 8 17 | 23 50 | 1 6 | 17 31 | 0 25 | 12 5 | 2 33 | 6 55 | 2 57 | 13 0 | 0 45 | 15 0 | 0 59 | 7 15 | 0 40 | 21 0 | 1 32 | 10 44 | 11 22 | 20 59 | 21 15 | 14 55 | 16 16 | 6 55 | | | |
| M29 | 7s54 | 20n46 | 0s 4 | 17s20 | 0s34 | 12n31 | 2n39 | 6s54 | 2n58 | 12s55 | 0s45 | 14s57 | 0s59 | 7s14 | 0n40 | 21s 0 | 1n32 | 10n44 | 11s21 | 20s58 | 21s15 | 14s57 | 16m17 | 6s54 | | | |

ASTRODIENST EPHEMERIS for the year 2140

geocentric

MARCH 2140

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|--------|-------|-------|--------|--------|-------|--------|--------|-------|-------|------|
| T 1 | 10 36 49 | 10°45'58 | 9°22 | 14°32 | 26°58 | 24°R57 | 28°44 | 22°34 | 20°R 5 | 14°28 | 10°22 | 25°R46 | 24°310 | 26°29 | 8°R 5 | T 1 |
| W 2 | 10 40 45 | 11°46'13 | 21°59 | 15°44 | 27°52 | 24°55 | 28°18 | 22°41 | 20°4 | 14°28 | 10°22 | 25°343 | 24° 7 | 26°36 | 8°4 | W 2 |
| T 3 | 10 44 42 | 12°46'27 | 4°27 | 16°58 | 28°46 | 24°52 | 28°33 | 22°47 | 20° 2 | 14°28 | 10°22 | 25°37 | 24° 4 | 26°42 | 8° 3 | T 3 |
| F 4 | 10 48 39 | 13°46'38 | 16°46 | 18°13 | 29°40 | 24°48 | 28°47 | 22°54 | 20° 0 | 14°29 | 10°22 | 25°30 | 24° 0 | 26°49 | 8° 2 | F 4 |
| S 5 | 10 52 35 | 14°46'48 | 28°56 | 19°30 | 0°32 | 24°43 | 29° 1 | 23° 1 | 19°58 | 14°29 | 10°22 | 25°20 | 23°57 | 26°56 | 8° 2 | S 5 |
| S 6 | 10 56 32 | 15°46'56 | 10°58 | 20°49 | 1°24 | 24°37 | 29°15 | 23° 8 | 19°56 | 14°30 | 10°23 | 25°10 | 23°54 | 27° 3 | 8° 1 | S 6 |
| M 7 | 11 0 28 | 16°47'02 | 22°55 | 22° 9 | 2°15 | 24°31 | 29°29 | 23°15 | 19°54 | 14°30 | 10°23 | 25° 1 | 23°51 | 27° 9 | 8° 0 | M 7 |
| T 8 | 11 4 25 | 17°47'07 | 4°48 | 23°31 | 3° 5 | 24°24 | 29°43 | 23°22 | 19°52 | 14°30 | 10°23 | 24°52 | 23°48 | 27°16 | 8° 0 | T 8 |
| W 9 | 11 8 21 | 18°47'10 | 16°39 | 24°54 | 3°55 | 24°16 | 29°57 | 23°29 | 19°50 | 14°31 | 10°24 | 24°45 | 23°44 | 27°23 | 8° 0 | W 9 |
| T 10 | 11 12 18 | 19°47'12 | 28°33 | 26°19 | 4°44 | 24° 8 | 0°11 | 23°35 | 19°48 | 14°31 | 10°24 | 24°40 | 23°41 | 27°29 | 7°59 | T 10 |
| F 11 | 11 16 14 | 20°47'12 | 10°33 | 27°45 | 5°31 | 23°58 | 0°25 | 23°42 | 19°46 | 14°31 | 10°24 | 24°37 | 23°38 | 27°36 | 7°59 | F 11 |
| S 12 | 11 20 11 | 21°47'10 | 22°45 | 29°12 | 6°18 | 23°48 | 0°39 | 23°49 | 19°43 | 14°31 | 10°25 | 24°D37 | 23°35 | 27°43 | 7°59 | S 12 |
| S 13 | 11 24 7 | 22°47'07 | 5°13 | 0°40 | 7° 4 | 23°37 | 0°53 | 23°55 | 19°41 | 14°31 | 10°25 | 24°37 | 23°32 | 27°50 | 7°D59 | S 13 |
| M14 | 11 28 4 | 23°47'02 | 18° 2 | 2°10 | 7°49 | 23°25 | 1° 7 | 24° 2 | 19°39 | 14°31 | 10°25 | 24°R38 | 23°29 | 27°56 | 7°59 | M14 |
| T 15 | 11 32 1 | 24°46'55 | 1°16 | 3°41 | 8°34 | 23°13 | 1°21 | 24° 8 | 19°37 | 14°31 | 10°26 | 24°38 | 23°25 | 28° 3 | 7°59 | T 15 |
| W16 | 11 35 57 | 25°46'47 | 14°59 | 5°13 | 9°17 | 23° 0 | 1°34 | 24°15 | 19°34 | 14°R31 | 10°26 | 24°36 | 23°22 | 28°10 | 8° 0 | W16 |
| T 17 | 11 39 54 | 26°46'37 | 29°11 | 6°47 | 9°59 | 22°46 | 1°48 | 24°21 | 19°32 | 14°31 | 10°27 | 24°32 | 23°19 | 28°17 | 8° 0 | T 17 |
| F 18 | 11 43 50 | 27°46'25 | 13°48 | 8°22 | 10°39 | 22°31 | 2° 2 | 24°28 | 19°30 | 14°31 | 10°27 | 24°25 | 23°16 | 28°23 | 8° 0 | F 18 |
| S 19 | 11 47 47 | 28°46'11 | 28°46 | 9°58 | 11°19 | 22°16 | 2°15 | 24°34 | 19°27 | 14°31 | 10°28 | 24°16 | 23°13 | 28°30 | 8° 1 | S 19 |
| S 20 | 11 51 43 | 29°45'55 | 13°55 | 11°35 | 11°58 | 22° 0 | 2°29 | 24°41 | 19°25 | 14°31 | 10°28 | 24° 6 | 23° 9 | 28°37 | 8° 2 | S 20 |
| M21 | 11 55 40 | 0°45'37 | 29° 4 | 13°13 | 12°35 | 21°43 | 2°43 | 24°47 | 19°23 | 14°31 | 10°29 | 23°56 | 23° 6 | 28°43 | 8° 2 | M21 |
| T 22 | 11 59 36 | 1°45'17 | 14° 4 | 14°53 | 13°11 | 21°26 | 2°56 | 24°53 | 19°20 | 14°31 | 10°29 | 23°48 | 23° 3 | 28°50 | 8° 3 | T 22 |
| W23 | 12 3 33 | 2°44'54 | 28°46 | 16°34 | 13°45 | 21° 8 | 3°10 | 24°59 | 19°18 | 14°31 | 10°30 | 23°41 | 23° 0 | 28°57 | 8° 4 | W23 |
| T 24 | 12 7 30 | 3°44'30 | 13°11 | 18°16 | 14°19 | 20°49 | 3°23 | 25° 6 | 19°15 | 14°30 | 10°31 | 23°37 | 22°57 | 29° 4 | 8° 5 | T 24 |
| F 25 | 12 11 26 | 4°44'03 | 26°59 | 20° 0 | 14°50 | 20°30 | 3°36 | 25°12 | 19°13 | 14°30 | 10°31 | 23°35 | 22°54 | 29°10 | 8° 6 | F 25 |
| S 26 | 12 15 23 | 5°43'34 | 10°28 | 21°44 | 15°20 | 20°10 | 3°50 | 25°18 | 19°10 | 14°30 | 10°32 | 23°D35 | 22°50 | 29°17 | 8° 7 | S 26 |
| S 27 | 12 19 19 | 6°43'03 | 23°36 | 23°30 | 15°49 | 19°50 | 4° 3 | 25°24 | 19° 8 | 14°30 | 10°33 | 23°R36 | 22°47 | 29°24 | 8° 8 | S 27 |
| M28 | 12 23 16 | 7°42'29 | 6°25 | 25°18 | 16°16 | 19°30 | 4°16 | 25°30 | 19° 5 | 14°29 | 10°33 | 23°35 | 22°44 | 29°31 | 8°10 | M28 |
| T 29 | 12 27 12 | 8°41'52 | 19° 0 | 27° 6 | 16°41 | 19° 9 | 4°29 | 25°36 | 19° 3 | 14°29 | 10°34 | 23°32 | 22°41 | 29°37 | 8°11 | T 29 |
| W30 | 12 31 9 | 9°41'17 | 1°22 | 28°56 | 17° 5 | 18°47 | 4°42 | 25°42 | 19° 0 | 14°28 | 10°35 | 23°27 | 22°38 | 29°44 | 8°13 | W30 |
| T 31 | 12 35 5 | 10°40'33 | 13°36 | 0°48 | 17°26 | 18°25 | 4°55 | 25°47 | 18°58 | 14°28 | 10°36 | 23°39 | 22°35 | 29°51 | 8°14 | T 31 |

| Day | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|------|-------|------|-------|------|-------|------|------|------|-------|------|-------|------|------|------|-------|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | lat |
| T 1 | 7s31 | 16n44 | 1s13 | 17s 8 | 0s43 | 12n58 | 2n46 | 6s53 | 2n58 | 12s50 | 0s45 | 14s55 | 0s59 | 7s13 | 0n40 | 21s 0 |
| W 2 | 7 9 | 12 1 | 2 17 | 16 55 | 0 51 | 13 24 | 2 53 | 6 52 | 2 59 | 12 46 | 0 45 | 14 53 | 1 0 | 7 13 | 0 40 | 21 0 |
| T 3 | 6 46 | 6 52 | 3 13 | 16 41 | 0 59 | 13 50 | 3 0 | 6 50 | 2 59 | 12 41 | 0 45 | 14 51 | 1 0 | 7 12 | 0 40 | 21 0 |
| F 4 | 6 23 | 1 33 | 3 59 | 16 25 | 1 7 | 14 15 | 3 7 | 6 49 | 2 59 | 12 36 | 0 45 | 14 49 | 1 0 | 7 11 | 0 41 | 21 0 |
| S 5 | 5 59 | 3s46 | 4 34 | 16 8 | 1 14 | 14 40 | 3 13 | 6 47 | 3 0 | 12 31 | 0 45 | 14 47 | 1 0 | 7 10 | 0 41 | 21 0 |
| S 6 | 5 36 | 8 53 | 4 56 | 15 49 | 1 21 | 15 5 | 3 20 | 6 44 | 3 0 | 12 26 | 0 46 | 14 44 | 1 0 | 7 10 | 0 41 | 21 0 |
| M 7 | 5 13 | 13 38 | 5 5 | 15 29 | 1 27 | 15 29 | 3 27 | 6 42 | 3 0 | 12 21 | 0 46 | 14 42 | 1 0 | 7 9 | 0 41 | 21 0 |
| T 8 | 4 49 | 17 50 | 5 1 | 15 8 | 1 33 | 15 53 | 3 34 | 6 39 | 3 1 | 12 17 | 0 46 | 14 40 | 1 0 | 7 8 | 0 41 | 21 0 |
| W 9 | 4 26 | 21 20 | 4 44 | 14 46 | 1 39 | 16 17 | 3 41 | 6 36 | 3 1 | 12 12 | 0 46 | 14 38 | 1 0 | 7 7 | 0 41 | 21 0 |
| T 10 | 4 3 | 23 57 | 4 14 | 14 22 | 1 44 | 16 40 | 3 48 | 6 33 | 3 1 | 12 7 | 0 46 | 14 36 | 1 0 | 7 7 | 0 41 | 21 0 |
| F 11 | 3 39 | 25 32 | 3 33 | 13 58 | 1 49 | 17 3 | 3 55 | 6 29 | 3 1 | 12 2 | 0 46 | 14 34 | 1 1 | 7 6 | 0 41 | 21 0 |
| S 12 | 3 15 | 25 55 | 2 42 | 13 31 | 1 54 | 17 25 | 4 2 | 6 25 | 3 1 | 11 57 | 0 46 | 14 32 | 1 1 | 7 5 | 0 41 | 21 0 |
| S 13 | 2 52 | 25 1 | 1 42 | 13 4 | 1 58 | 17 47 | 4 9 | 6 21 | 3 1 | 11 53 | 0 46 | 14 30 | 1 1 | 7 4 | 0 41 | 21 0 |
| M14 | 2 28 | 22 47 | 0 35 | 12 36 | 2 2 | 18 8 | 4 16 | 6 17 | 3 1 | 11 48 | 0 46 | 14 28 | 1 1 | 7 3 | 0 41 | 21 0 |
| T 15 | 2 4 | 19 17 | 0n35 | 12 6 | 2 5 | 18 29 | 4 23 | 6 13 | 3 1 | 11 43 | 0 47 | 14 25 | 1 1 | 7 2 | 0 41 | 21 0 |
| W16 | 1 41 | 14 38 | 1 46 | 11 35 | 2 8 | 18 50 | 4 30 | 6 8 | 3 1 | 11 38 | 0 47 | 14 23 | 1 1 | 7 2 | 0 41 | 21 0 |
| T 17 | 1 17 | 9 3 | 2 53 | 11 2 | 2 11 | 19 10 | 4 36 | 6 3 | 3 0 | 11 33 | 0 47 | 14 21 | 1 1 | 7 1 | 0 41 | 21 0 |
| F 18 | 0 53 | 2 49 | 3 51 | 10 29 | 2 13 | 19 29 | 4 43 | 5 58 | 3 0 | 11 29 | 0 47 | 14 19 | 1 1 | 7 0 | 0 41 | 21 0 |
| S 19 | 0 29 | 3n41 | 4 33 | 9 54 | 2 15 | 19 48 | 4 50 | 5 53 | 3 0 | 11 24 | 0 47 | 14 17 | 1 1 | 6 59 | 0 41 | 20 59 |
| S 20 | 0 6 | 10 3 | 4 58 | 9 19 | 2 16 | 20 7 | 4 56 | 5 47 | 2 59 | 11 19 | 0 47 | 14 15 | 1 2 | 6 58 | 0 41 | 20 59 |
| M21 | 0n18 | 15 50 | 5 1 | 8 42 | 2 17 | 20 25 | 5 3 | 5 41 | 2 59 | 11 14 | 0 47 | 14 13 | 1 2 | 6 57 | 0 41 | 20 59 |
| T 22 | 0 42 | 20 34 | 4 44 | 8 3 | 2 17 | 20 42 | 5 10 | 5 35 | 2 58 | 11 9 | 0 47 | 14 11 | 1 2 | 6 56 | 0 41 | 20 59 |
| W23 | 1 6 | 23 54 | 4 8 | 7 24 | 2 17 | 20 59 | 5 16 | 5 29 | 2 58 | 11 5 | 0 48 | 14 9 | 1 2 | 6 55 | 0 41 | 20 59 |
| T 24 | 1 29 | 25 37 | 3 17 | 6 44 | 2 16 | 21 15 | 5 22 | 5 23 | 2 57 | 11 0 | 0 48 | 14 7 | 1 2 | 6 54 | 0 41 | 20 59 |
| F 25 | 1 53 | 25 39 | 2 16 | 6 2 | 2 15 | 21 30 | 5 29 | 5 17 | 2 56 | 10 55 | 0 48 | 14 5 | 1 2 | 6 53 | 0 41 | 20 59 |
| S 26 | 2 16 | 24 9 | 1 9 | 5 20 | 2 14 | 21 45 | 5 35 | 5 10 | 2 55 | 10 51 | 0 48 | 14 3 | 1 2 | 6 52 | 0 41 | 20 59 |
| S 27 | 2 40 | 21 22 | 0s 0 | 4 36 | 2 12 | 21 59 | 5 41 | 5 3 | 2 55 | 10 46 | 0 48 | 14 2 | 1 2 | 6 51 | 0 41 | 20 59 |
| M28 | 3 3 | 17 34 | 1 7 | 3 51 | 2 10 | 22 13 | 5 47 | 4 57 | 2 54 | 10 41 | 0 48 | 14 0 | 1 3 | 6 50 | 0 41 | 20 59 |
| T 29 | 3 27 | 13 3 | 2 10 | 3 5 | 2 7 | 22 26 | 5 52 | 4 50 | 2 52 | 10 37 | 0 48 | 13 58 | 1 3 | 6 50 | 0 41 | 20 59 |
| W30 | 3 50 | 8 5 | 3 6 | 2 18 | 2 3 | 22 38 | 5 58 | 4 43 | 2 51 | 10 32 | 0 49 | 13 56 | 1 3 | 6 49 | 0 41 | 20 59 |
| T 31 | 4n13 | 2n53 | 3s52 | 1s30 | 1s59 | 22n49 | 6n 3 | 4s36 | 2n50 | 10s27 | 0s49 | 13s54 | 1s 3 | 6s48 | 0n41 | 20s59 |

Julian Day Number = 2502738.5, Delta T = 115.16 sec
 Ecliptic obliquity = 23°25'20", Nutation = 0°00'17", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°41'56", Lahiri = 25°48'56"

ASTRODIENST EPHEMERIS for the year 2140

geocentric

APRIL 2140

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|--------|--------|--------|--------|--------|-------|--------|--------|---------|--------|--------|-------|------|------|
| F 1 | 12 39 2 | 11°39'50 | 25°42 | 2°40 | 17°46 | 18°R 3 | 5°H 8 | 25°53 | 18°R55 | 14°R27 | 10°II36 | 23°R 8 | 22°31 | 29°57 | 8°16 | F 1 |
| S 2 | 12 42 59 | 12°39'05 | 7°43 | 4°34 | 18° 4 | 17°41 | 5°21 | 25°59 | 18°53 | 14°27 | 10°37 | 22°35 | 22°28 | 0°M 4 | 8°18 | S 2 |
| S 3 | 12 46 55 | 13°38'18 | 19°40 | 6°30 | 18°20 | 17°18 | 5°34 | 26° 4 | 18°50 | 14°26 | 10°38 | 22°41 | 22°25 | 0°11 | 8°20 | S 3 |
| M 4 | 12 50 52 | 14°37'29 | 1°M33 | 8°27 | 18°33 | 16°55 | 5°47 | 26°10 | 18°48 | 14°26 | 10°39 | 22°27 | 22°22 | 0°18 | 8°22 | M 4 |
| T 5 | 12 54 48 | 15°36'38 | 13°25 | 10°24 | 18°45 | 16°32 | 6° 0 | 26°16 | 18°45 | 14°25 | 10°40 | 22°14 | 22°19 | 0°24 | 8°24 | T 5 |
| W 6 | 12 58 45 | 16°35'45 | 25°18 | 12°24 | 18°54 | 16° 9 | 6°12 | 26°21 | 18°42 | 14°24 | 10°40 | 22° 3 | 22°15 | 0°31 | 8°26 | W 6 |
| T 7 | 13 2 41 | 17°34'51 | 7°12 | 14°24 | 19° 1 | 15°46 | 6°25 | 26°26 | 18°40 | 14°24 | 10°41 | 21°55 | 22°12 | 0°38 | 8°28 | T 7 |
| F 8 | 13 6 38 | 18°33'54 | 19°13 | 16°26 | 19° 6 | 15°23 | 6°37 | 26°32 | 18°37 | 14°23 | 10°42 | 21°50 | 22° 9 | 0°44 | 8°30 | F 8 |
| S 9 | 13 10 34 | 19°32'56 | 1°324 | 18°28 | 19° 9 | 15° 0 | 6°50 | 26°37 | 18°35 | 14°22 | 10°43 | 21°47 | 22° 6 | 0°51 | 8°32 | S 9 |
| S 10 | 13 14 31 | 20°31'56 | 13°49 | 20°32 | 19°R 9 | 14°37 | 7° 2 | 26°42 | 18°32 | 14°22 | 10°44 | 21°46 | 22° 3 | 0°58 | 8°35 | S 10 |
| M11 | 13 18 28 | 21°30'54 | 26°34 | 22°37 | 19° 7 | 14°14 | 7°14 | 26°47 | 18°29 | 14°21 | 10°45 | 21°46 | 22° 0 | 1° 5 | 8°37 | M11 |
| T 12 | 13 22 24 | 22°29'51 | 9°42 | 24°42 | 19° 2 | 13°51 | 7°27 | 26°53 | 18°27 | 14°20 | 10°46 | 21°46 | 21°56 | 1°11 | 8°40 | T 12 |
| W13 | 13 26 21 | 23°28'45 | 23°18 | 26°47 | 18°55 | 13°28 | 7°39 | 26°58 | 18°24 | 14°19 | 10°47 | 21°44 | 21°53 | 1°18 | 8°43 | W13 |
| T 14 | 13 30 17 | 24°27'38 | 7°24 | 28°53 | 18°45 | 13° 6 | 7°51 | 27° 3 | 18°22 | 14°18 | 10°48 | 21°39 | 21°50 | 1°25 | 8°45 | T 14 |
| F 15 | 13 34 14 | 25°26'29 | 21°58 | 0°59 | 18°33 | 12°44 | 8° 3 | 27° 7 | 18°19 | 14°17 | 10°49 | 21°32 | 21°47 | 1°32 | 8°48 | F 15 |
| S 16 | 13 38 10 | 26°25'19 | 6°57 | 3° 5 | 18°19 | 12°22 | 8°15 | 27°12 | 18°17 | 14°16 | 10°50 | 21°22 | 21°44 | 1°38 | 8°51 | S 16 |
| S 17 | 13 42 7 | 27°24'06 | 22°12 | 5°10 | 18° 2 | 12° 1 | 8°26 | 27°17 | 18°14 | 14°15 | 10°51 | 21°11 | 21°41 | 1°45 | 8°54 | S 17 |
| M18 | 13 46 3 | 28°22'51 | 7°32 | 7°15 | 17°42 | 11°40 | 8°38 | 27°22 | 18°11 | 14°14 | 10°52 | 21° 0 | 21°37 | 1°52 | 8°57 | M18 |
| T 19 | 13 50 0 | 29°21'35 | 22°46 | 9°18 | 17°21 | 11°19 | 8°50 | 27°26 | 18° 9 | 14°13 | 10°53 | 20°50 | 21°34 | 1°58 | 9° 0 | T 19 |
| W20 | 13 53 57 | 0°20'17 | 7°II43 | 11°20 | 16°57 | 10°59 | 9° 1 | 27°31 | 18° 6 | 14°12 | 10°54 | 20°43 | 21°31 | 2° 5 | 9° 4 | W20 |
| T 21 | 13 57 53 | 1°18'56 | 22°16 | 13°20 | 16°31 | 10°40 | 9°13 | 27°35 | 18° 4 | 14°11 | 10°55 | 20°38 | 21°28 | 2°12 | 9° 7 | T 21 |
| F 22 | 14 1 50 | 2°17'33 | 6°21 | 15°18 | 16° 3 | 10°21 | 9°24 | 27°40 | 18° 1 | 14°10 | 10°56 | 20°35 | 21°25 | 2°19 | 9°10 | F 22 |
| S 23 | 14 5 46 | 3°16'08 | 19°58 | 17°13 | 15°33 | 10° 2 | 9°35 | 27°44 | 17°59 | 14° 9 | 10°57 | 20°D35 | 21°21 | 2°25 | 9°14 | S 23 |
| S 24 | 14 9 43 | 4°14'41 | 3°8 | 19° 6 | 15° 2 | 9°44 | 9°47 | 27°48 | 17°57 | 14° 8 | 10°58 | 20°R35 | 21°18 | 2°32 | 9°17 | S 24 |
| M25 | 14 13 39 | 5°13'12 | 15°56 | 20°56 | 14°29 | 9°27 | 9°58 | 27°52 | 17°54 | 14° 7 | 11° 0 | 20°35 | 21°15 | 2°39 | 9°21 | M25 |
| T 26 | 14 17 36 | 6°11'40 | 28°26 | 22°42 | 13°54 | 9°11 | 10° 9 | 27°56 | 17°52 | 14° 6 | 11° 1 | 20°33 | 21°12 | 2°45 | 9°24 | T 26 |
| W27 | 14 21 32 | 7°10'06 | 10°42 | 24°25 | 13°18 | 8°55 | 10°20 | 28° 0 | 17°49 | 14° 4 | 11° 2 | 20°28 | 21° 9 | 2°52 | 9°28 | W27 |
| T 28 | 14 25 29 | 8° 8'30 | 22°47 | 26° 4 | 12°42 | 8°40 | 10°30 | 28° 4 | 17°47 | 14° 3 | 11° 3 | 20°21 | 21° 6 | 2°59 | 9°32 | T 28 |
| F 29 | 14 29 26 | 9° 6'52 | 4°46 | 27°39 | 12° 5 | 8°25 | 10°41 | 28° 8 | 17°44 | 14° 2 | 11° 4 | 20°11 | 21° 2 | 3° 6 | 9°36 | F 29 |
| S 30 | 14 33 22 | 10° 5'12 | 16°41 | 29°811 | 11°827 | 8°12 | 10°H52 | 28°12 | 17°42 | 14°1 | 11°II 5 | 20°30 | 20°359 | 3°M12 | 9°39 | S 30 |

| Day | ☉ | ☽ | | ♀ | | ♀ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | |
|------|-------|-------|------|-------|------|-------|------|------|------|-------|------|-------|-------|------|------|-------|------|-------|-------|-------|-------|-------|-------|------|-----|------|-----|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat |
| F 1 | 4n37 | 2s22 | 4s27 | 0s42 | 1s55 | 23n 0 | 6n 8 | 4s28 | 2n49 | 10s23 | 0s49 | 13s52 | 1 s 3 | 6s47 | 0n41 | 20s58 | 1n33 | 10n55 | 11s13 | 21s26 | 21s33 | 16s13 | 16n33 | 6s37 | | | |
| S 2 | 5 0 | 7 29 | 4 49 | 0n 8 | 1 50 | 23 10 | 6 13 | 4 21 | 2 47 | 10 18 | 0 49 | 13 50 | 1 3 | 6 46 | 0 41 | 20 58 | 1 33 | 10 55 | 11 13 | 21 29 | 21 33 | 16 15 | 16 34 | 6 37 | | | |
| S 3 | 5 23 | 12 18 | 4 59 | 0 59 | 1 44 | 23 19 | 6 18 | 4 14 | 2 46 | 10 14 | 0 49 | 13 49 | 1 3 | 6 45 | 0 41 | 20 58 | 1 33 | 10 55 | 11 12 | 21 31 | 21 34 | 16 18 | 16 34 | 6 36 | | | |
| M 4 | 5 46 | 16 38 | 4 56 | 1 50 | 1 38 | 23 27 | 6 22 | 4 7 | 2 44 | 10 9 | 0 49 | 13 47 | 1 4 | 6 44 | 0 41 | 20 58 | 1 33 | 10 56 | 11 12 | 21 33 | 21 34 | 16 20 | 16 34 | 6 36 | | | |
| T 5 | 6 8 | 20 18 | 4 40 | 2 43 | 1 32 | 23 34 | 6 26 | 3 59 | 2 43 | 10 4 | 0 49 | 13 45 | 1 4 | 6 43 | 0 41 | 20 58 | 1 33 | 10 56 | 11 12 | 21 35 | 21 35 | 16 22 | 16 35 | 6 35 | | | |
| W 6 | 6 31 | 23 8 | 4 11 | 3 35 | 1 25 | 23 41 | 6 30 | 3 52 | 2 41 | 10 0 | 0 50 | 13 43 | 1 4 | 6 42 | 0 41 | 20 58 | 1 33 | 10 56 | 11 12 | 21 37 | 21 35 | 16 25 | 16 35 | 6 35 | | | |
| T 7 | 6 54 | 24 59 | 3 32 | 4 29 | 1 17 | 23 46 | 6 34 | 3 45 | 2 39 | 9 55 | 0 50 | 13 42 | 1 4 | 6 41 | 0 41 | 20 58 | 1 33 | 10 57 | 11 12 | 21 38 | 21 36 | 16 27 | 16 36 | 6 34 | | | |
| F 8 | 7 16 | 25 41 | 2 43 | 5 23 | 1 9 | 23 50 | 6 37 | 3 38 | 2 38 | 9 51 | 0 50 | 13 40 | 1 4 | 6 40 | 0 41 | 20 58 | 1 34 | 10 57 | 11 11 | 21 39 | 21 36 | 16 29 | 16 36 | 6 34 | | | |
| S 9 | 7 39 | 25 10 | 1 45 | 6 18 | 1 1 | 23 54 | 6 40 | 3 31 | 2 36 | 9 46 | 0 50 | 13 38 | 1 4 | 6 39 | 0 41 | 20 58 | 1 34 | 10 57 | 11 11 | 21 40 | 21 37 | 16 31 | 16 36 | 6 33 | | | |
| S 10 | 8 1 | 23 24 | 0 42 | 7 13 | 0 52 | 23 56 | 6 42 | 3 23 | 2 34 | 9 42 | 0 50 | 13 37 | 1 4 | 6 38 | 0 41 | 20 57 | 1 34 | 10 58 | 11 11 | 21 40 | 21 37 | 16 34 | 16 37 | 6 33 | | | |
| M11 | 8 23 | 20 25 | 0n25 | 8 8 | 0 43 | 23 57 | 6 44 | 3 16 | 2 32 | 9 38 | 0 50 | 13 35 | 1 5 | 6 37 | 0 41 | 20 57 | 1 34 | 10 58 | 11 11 | 21 40 | 21 38 | 16 36 | 16 37 | 6 32 | | | |
| T 12 | 8 45 | 16 19 | 1 33 | 9 3 | 0 33 | 23 57 | 6 45 | 3 9 | 2 30 | 9 33 | 0 51 | 13 34 | 1 5 | 6 36 | 0 41 | 20 57 | 1 34 | 10 58 | 11 10 | 21 40 | 21 38 | 16 38 | 16 37 | 6 32 | | | |
| W13 | 9 7 | 11 15 | 2 38 | 9 58 | 0 23 | 23 56 | 6 46 | 3 3 | 2 28 | 9 29 | 0 51 | 13 32 | 1 5 | 6 35 | 0 41 | 20 57 | 1 34 | 10 59 | 11 10 | 21 40 | 21 39 | 16 40 | 16 38 | 6 31 | | | |
| T 14 | 9 28 | 5 27 | 3 36 | 10 53 | 0 13 | 23 54 | 6 47 | 2 56 | 2 26 | 9 25 | 0 51 | 13 30 | 1 5 | 6 34 | 0 41 | 20 57 | 1 34 | 10 59 | 11 10 | 21 41 | 21 39 | 16 43 | 16 38 | 6 31 | | | |
| F 15 | 9 50 | 0n49 | 4 22 | 11 47 | 0 2 | 23 50 | 6 46 | 2 50 | 2 23 | 9 20 | 0 51 | 13 29 | 1 5 | 6 33 | 0 41 | 20 57 | 1 34 | 10 59 | 11 10 | 21 42 | 21 40 | 16 45 | 16 38 | 6 30 | | | |
| S 16 | 10 11 | 7 12 | 4 51 | 12 40 | 0n 9 | 23 45 | 6 45 | 2 43 | 2 21 | 9 16 | 0 51 | 13 27 | 1 5 | 6 32 | 0 41 | 20 57 | 1 34 | 11 0 | 11 10 | 21 44 | 21 40 | 16 47 | 16 39 | 6 30 | | | |
| S 17 | 10 32 | 13 16 | 5 0 | 13 33 | 0 20 | 23 39 | 6 44 | 2 37 | 2 19 | 9 12 | 0 51 | 13 26 | 1 5 | 6 31 | 0 41 | 20 56 | 1 34 | 11 0 | 11 9 | 21 45 | 21 41 | 16 49 | 16 39 | 6 29 | | | |
| M18 | 10 53 | 18 33 | 4 48 | 14 24 | 0 31 | 23 31 | 6 42 | 2 31 | 2 16 | 9 7 | 0 52 | 13 24 | 1 6 | 6 30 | 0 41 | 20 56 | 1 34 | 11 0 | 11 9 | 21 47 | 21 41 | 16 51 | 16 39 | 6 29 | | | |
| T 19 | 11 14 | 22 34 | 4 15 | 15 15 | 0 42 | 23 22 | 6 39 | 2 25 | 2 14 | 9 3 | 0 52 | 13 23 | 1 6 | 6 29 | 0 41 | 20 56 | 1 34 | 11 1 | 11 9 | 21 48 | 21 42 | 16 54 | 16 39 | 6 28 | | | |
| W20 | 11 35 | 24 58 | 3 26 | 16 3 | 0 53 | 23 12 | 6 36 | 2 20 | 2 11 | 8 59 | 0 52 | 13 22 | 1 6 | 6 28 | 0 41 | 20 56 | 1 34 | 11 1 | 11 9 | 21 50 | 21 42 | 16 56 | 16 40 | 6 28 | | | |
| T 21 | 11 55 | 25 35 | 2 24 | 16 50 | 1 4 | 23 0 | 6 32 | 2 14 | 2 9 | 8 55 | 0 52 | 13 20 | 1 6 | 6 27 | 0 41 | 20 56 | 1 34 | 11 1 | 11 9 | 21 50 | 21 43 | 16 58 | 16 40 | 6 27 | | | |
| F 22 | 12 16 | 24 31 | 1 15 | 17 36 | 1 14 | 22 47 | 6 27 | 2 9 | 2 6 | 8 51 | 0 52 | 13 19 | 1 6 | 6 26 | 0 41 | 20 56 | 1 34 | 11 2 | 11 8 | 21 51 | 21 43 | 17 0 | 16 40 | 6 27 | | | |
| S 23 | 12 36 | 22 0 | 0 3 | 18 19 | 1 24 | 22 33 | 6 21 | 2 4 | 2 4 | 8 47 | 0 53 | 13 17 | 1 6 | 6 25 | 0 41 | 20 55 | 1 34 | 11 2 | 11 8 | 21 51 | 21 44 | 17 2 | 16 40 | 6 27 | | | |
| S 24 | 12 56 | 18 22 | 1s 6 | 19 0 | 1 34 | 22 18 | 6 15 | 2 0 | 2 1 | 8 43 | 0 53 | 13 16 | 1 7 | 6 24 | 0 41 | 20 55 | 1 34 | 11 2 | 11 8 | 21 51 | 21 44 | 17 5 | 16 41 | 6 26 | | | |
| M25 | 13 15 | 13 59 | 2 10 | 19 38 | 1 43 | 22 1 | 6 7 | 1 55 | 1 59 | 8 39 | 0 53 | 13 15 | 1 7 | 6 24 | 0 41 | 20 55 | 1 34 | 11 3 | 11 8 | 21 51 | 21 45 | 17 7 | 16 41 | 6 26 | | | |
| T 26 | 13 35 | 9 6 | 3 6 | 20 14 | 1 52 | 21 43 | 6 0 | 1 51 | 1 56 | 8 35 | 0 53 | 13 14 | 1 7 | 6 23 | 0 41 | 20 55 | 1 34 | 11 3 | 11 8 | 21 51 | 21 45 | 17 9 | 16 41 | 6 25 | | | |
| W27 | 13 54 | 3 58 | 3 52 | 20 48 | 2 0 | 21 24 | 5 51 | 1 47 | 1 54 | 8 31 | 0 53 | 13 12 | 1 7 | 6 22 | 0 41 | 20 55 | 1 34 | 11 3 | 11 8 | 21 52 | 21 46 | 17 11 | 16 41 | 6 25 | | | |
| T 28 | 14 13 | 1s14 | 4 28 | 21 19 | 2 7 | 21 3 | 5 42 | 1 44 | 1 51 | 8 27 | 0 54 | 13 11 | 1 7 | 6 21 | 0 41 | 20 55 | 1 34 | 11 4 | 11 7 | 21 53 | 21 46 | 17 13 | 16 41 | 6 24 | | | |
| F 29 | 14 31 | 6 20 | 4 51 | 21 48 | 2 14 | 20 42 | 5 32 | 1 41 | 1 48 | 8 23 | 0 54 | 13 10 | 1 7 | 6 20 | 0 40 | 20 55 | 1 34 | 11 4 | 11 7 | 21 54 | 21 47 | 17 16 | 16 42 | 6 24 | | | |
| S 30 | 14n50 | 11s11 | 5s 1 | 22n14 | 2n20 | 20n20 | 5n21 | 1s38 | 1n46 | 8s19 | 0s54 | 13s 9 | 1s 8 | 6s19 | 0n40 | 20s54 | 1n34 | 11n 4 | 11s 7 | 21s56 | 21s47 | 17s18 | 16n42 | 6s23 | | | |

ASTRODIENST EPHEMERIS for the year 2140

geocentric

MAY 2140

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|-------------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---------|--------|---------|------|-----|
| S 1 | 14 37 19 | 11° 3' 31" | 28° 33' | 0° 38' | 10° 49' | 7° 59' | 11° 2' | 28° 16' | 17° 40' | 13° 59' | 11° 7' | 19° 47' | 20° 56' | 3° 19' | 9° 43' | S 1 | |
| M 2 | 14 41 15 | 12° 1' 47" | 10° 26' | 2° 0' | 10° 11' | 7° 47' | 11° 12' | 28° 19' | 17° 38' | 13° 58' | 11° 8' | 19° 34' | 20° 53' | 3° 26' | 9° 47' | M 2 | |
| T 3 | 14 45 12 | 13° 0' 02" | 22° 19' | 3° 19' | 9° 34' | 7° 35' | 11° 23' | 28° 23' | 17° 35' | 13° 57' | 11° 9' | 19° 23' | 20° 50' | 3° 32' | 9° 52' | T 3 | |
| W 4 | 14 49 8 | 13° 58' 14" | 4° 15' | 4° 33' | 8° 57' | 7° 25' | 11° 33' | 28° 26' | 17° 33' | 13° 56' | 11° 10' | 19° 13' | 20° 46' | 3° 39' | 9° 56' | W 4 | |
| T 5 | 14 53 5 | 14° 56' 26" | 16° 16' | 5° 42' | 8° 21' | 7° 15' | 11° 43' | 28° 29' | 17° 31' | 13° 54' | 11° 11' | 19° 6' | 20° 43' | 3° 46' | 10° 0' | T 5 | |
| F 6 | 14 57 1 | 15° 54' 36" | 28° 23' | 6° 47' | 7° 45' | 7° 6' | 11° 53' | 28° 33' | 17° 29' | 13° 53' | 11° 13' | 19° 1' | 20° 40' | 3° 53' | 10° 4' | F 6 | |
| S 7 | 15 0 58 | 16° 52' 44" | 10° 39' | 7° 47' | 7° 11' | 6° 57' | 12° 3' | 28° 36' | 17° 26' | 13° 51' | 11° 14' | 18° 59' | 20° 37' | 3° 59' | 10° 9' | S 7 | |
| S 8 | 15 4 55 | 17° 50' 50" | 23° 8' | 8° 42' | 6° 39' | 6° 50' | 12° 12' | 28° 39' | 17° 24' | 13° 50' | 11° 15' | 18° 59' | 20° 34' | 4° 6' | 10° 13' | S 8 | |
| M 9 | 15 8 51 | 18° 48' 56" | 5° 54' | 9° 33' | 6° 8' | 6° 43' | 12° 22' | 28° 42' | 17° 22' | 13° 49' | 11° 17' | 19° 0' | 20° 31' | 4° 13' | 10° 17' | M 9 | |
| T 10 | 15 12 48 | 19° 47' 00" | 19° 0' | 10° 18' | 5° 39' | 6° 37' | 12° 31' | 28° 45' | 17° 20' | 13° 47' | 11° 18' | 19° 0' | 20° 27' | 4° 20' | 10° 22' | T 10 | |
| W 11 | 15 16 44 | 20° 45' 02" | 2° 29' | 10° 59' | 5° 12' | 6° 32' | 12° 41' | 28° 48' | 17° 18' | 13° 46' | 11° 19' | 18° 59' | 20° 24' | 4° 26' | 10° 26' | W 11 | |
| T 12 | 15 20 41 | 21° 43' 03" | 16° 26' | 11° 35' | 4° 47' | 6° 28' | 12° 50' | 28° 50' | 17° 16' | 13° 44' | 11° 20' | 18° 57' | 20° 21' | 4° 33' | 10° 31' | T 12 | |
| F 13 | 15 24 37 | 22° 41' 03" | 0° 48' | 12° 5' | 4° 24' | 6° 24' | 12° 59' | 28° 53' | 17° 14' | 13° 43' | 11° 22' | 18° 52' | 20° 18' | 4° 40' | 10° 36' | F 13 | |
| S 14 | 15 28 34 | 23° 39' 02" | 15° 35' | 12° 31' | 4° 4' | 6° 22' | 13° 8' | 28° 55' | 17° 12' | 13° 41' | 11° 23' | 18° 46' | 20° 15' | 4° 46' | 10° 41' | S 14 | |
| S 15 | 15 32 30 | 24° 36' 59" | 0° 39' | 12° 51' | 3° 45' | 6° 20' | 13° 17' | 28° 58' | 17° 10' | 13° 40' | 11° 24' | 18° 38' | 20° 12' | 4° 53' | 10° 45' | S 15 | |
| M 16 | 15 36 27 | 25° 34' 55" | 15° 52' | 13° 7' | 3° 29' | 6° 19' | 13° 26' | 29° 0' | 17° 9' | 13° 38' | 11° 26' | 18° 30' | 20° 8' | 5° 0' | 10° 50' | M 16 | |
| T 17 | 15 40 23 | 26° 32' 49" | 1° 3' | 13° 17' | 3° 16' | 6° 18' | 13° 34' | 29° 3' | 17° 7' | 13° 37' | 11° 27' | 18° 23' | 20° 5' | 5° 7' | 10° 55' | T 17 | |
| W 18 | 15 44 20 | 27° 30' 42" | 16° 2' | 13° 23' | 3° 5' | 6° 19' | 13° 43' | 29° 5' | 17° 5' | 13° 35' | 11° 28' | 18° 17' | 20° 2' | 5° 13' | 11° 0' | W 18 | |
| T 19 | 15 48 17 | 28° 28' 34" | 0° 41' | 13° 23' | 2° 56' | 6° 20' | 13° 51' | 29° 7' | 17° 3' | 13° 34' | 11° 30' | 18° 14' | 19° 59' | 5° 20' | 11° 5' | T 19 | |
| F 20 | 15 52 13 | 29° 26' 24" | 14° 54' | 13° 19' | 2° 50' | 6° 22' | 13° 59' | 29° 9' | 17° 2' | 13° 32' | 11° 31' | 18° 12' | 19° 56' | 5° 27' | 11° 10' | F 20 | |
| S 21 | 15 56 10 | 0° 24' 12" | 28° 38' | 13° 10' | 2° 46' | 6° 24' | 14° 7' | 29° 11' | 17° 0' | 13° 31' | 11° 32' | 18° 13' | 19° 52' | 5° 33' | 11° 15' | S 21 | |
| S 22 | 16 0 6 | 1° 21' 58" | 11° 56' | 12° 57' | 2° 44' | 6° 28' | 14° 15' | 29° 12' | 16° 58' | 13° 29' | 11° 34' | 18° 14' | 19° 49' | 5° 40' | 11° 20' | S 22 | |
| M 23 | 16 4 3 | 2° 19' 43" | 24° 48' | 12° 40' | 2° 45' | 6° 32' | 14° 23' | 29° 14' | 16° 57' | 13° 27' | 11° 35' | 18° 15' | 19° 46' | 5° 47' | 11° 25' | M 23 | |
| T 24 | 16 7 59 | 3° 17' 26" | 7° 20' | 12° 19' | 2° 48' | 6° 37' | 14° 30' | 29° 16' | 16° 55' | 13° 26' | 11° 36' | 18° 15' | 19° 43' | 5° 54' | 11° 31' | T 24 | |
| W 25 | 16 11 56 | 4° 15' 08" | 19° 36' | 11° 55' | 2° 53' | 6° 42' | 14° 38' | 29° 17' | 16° 54' | 13° 24' | 11° 38' | 18° 14' | 19° 40' | 6° 0' | 11° 36' | W 25 | |
| T 26 | 16 15 53 | 5° 12' 48" | 1° 40' | 11° 28' | 3° 1' | 6° 49' | 14° 45' | 29° 19' | 16° 52' | 13° 23' | 11° 39' | 18° 11' | 19° 37' | 6° 7' | 11° 41' | T 26 | |
| F 27 | 16 19 49 | 6° 10' 26" | 13° 36' | 10° 58' | 3° 11' | 6° 55' | 14° 52' | 29° 20' | 16° 51' | 13° 21' | 11° 40' | 18° 6' | 19° 33' | 6° 14' | 11° 47' | F 27 | |
| S 28 | 16 23 46 | 7° 8' 03" | 25° 29' | 10° 27' | 3° 22' | 7° 3' | 14° 59' | 29° 21' | 16° 49' | 13° 19' | 11° 42' | 17° 59' | 19° 30' | 6° 20' | 11° 52' | S 28 | |
| S 29 | 16 27 42 | 8° 5' 39" | 7° 20' | 9° 54' | 3° 36' | 7° 11' | 15° 6' | 29° 22' | 16° 48' | 13° 18' | 11° 43' | 17° 52' | 19° 27' | 6° 27' | 11° 57' | S 29 | |
| M 30 | 16 31 39 | 9° 3' 14" | 19° 14' | 9° 20' | 3° 52' | 7° 20' | 15° 13' | 29° 23' | 16° 47' | 13° 16' | 11° 45' | 17° 45' | 19° 24' | 6° 34' | 12° 3' | M 30 | |
| T 31 | 16 35 35 | 10° 2' 47" | 1° 12' | 8° 46' | 4° 10' | 7° 30' | 15° 20' | 29° 24' | 16° 46' | 13° 15' | 11° 46' | 17° 38' | 19° 21' | 6° 41' | 12° 8' | T 31 | |

| Day | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|-------|-------|------|-------|------|-------|------|------|------|------|------|-------|------|------|------|-------|------|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat |
| S 1 | 15n 8 | 15s35 | 4s58 | 22n38 | 2n25 | 19n57 | 5n10 | 1s35 | 1n43 | 8s15 | 0s54 | 13s 8 | 1s 8 | 6s18 | 0n40 | 20s54 | 1n34 |
| M 2 | 15 26 | 19 24 | 4 42 | 22 59 | 2 29 | 19 34 | 4 58 | 1 33 | 1 40 | 8 12 | 0 54 | 13 7 | 1 8 | 6 17 | 0 40 | 20 54 | 1 34 |
| T 3 | 15 44 | 22 25 | 4 14 | 23 18 | 2 33 | 19 10 | 4 45 | 1 31 | 1 38 | 8 8 | 0 55 | 13 6 | 1 8 | 6 17 | 0 40 | 20 54 | 1 34 |
| W 4 | 16 1 | 24 29 | 3 34 | 23 34 | 2 35 | 18 46 | 4 32 | 1 29 | 1 35 | 8 4 | 0 55 | 13 5 | 1 8 | 6 16 | 0 40 | 20 54 | 1 34 |
| T 5 | 16 18 | 25 27 | 2 45 | 23 49 | 2 37 | 18 22 | 4 19 | 1 27 | 1 32 | 8 1 | 0 55 | 13 4 | 1 9 | 6 15 | 0 40 | 20 53 | 1 34 |
| F 6 | 16 35 | 25 12 | 1 48 | 24 0 | 2 37 | 17 57 | 4 6 | 1 26 | 1 30 | 7 57 | 0 55 | 13 3 | 1 9 | 6 14 | 0 40 | 20 53 | 1 34 |
| S 7 | 16 52 | 23 44 | 0 44 | 24 10 | 2 36 | 17 33 | 3 52 | 1 25 | 1 27 | 7 54 | 0 55 | 13 2 | 1 9 | 6 13 | 0 40 | 20 53 | 1 34 |
| S 8 | 17 8 | 21 5 | 0n22 | 24 17 | 2 35 | 17 9 | 3 38 | 1 25 | 1 25 | 7 50 | 0 56 | 13 1 | 1 9 | 6 13 | 0 40 | 20 53 | 1 34 |
| M 9 | 17 24 | 17 21 | 1 29 | 24 22 | 2 32 | 16 45 | 3 23 | 1 25 | 1 22 | 7 47 | 0 56 | 13 0 | 1 9 | 6 12 | 0 40 | 20 53 | 1 34 |
| T 10 | 17 40 | 12 41 | 2 33 | 24 26 | 2 29 | 16 22 | 3 9 | 1 25 | 1 19 | 7 43 | 0 56 | 12 59 | 1 9 | 6 11 | 0 40 | 20 52 | 1 34 |
| W 11 | 17 56 | 7 18 | 3 31 | 24 27 | 2 24 | 15 59 | 2 54 | 1 25 | 1 17 | 7 40 | 0 56 | 12 58 | 1 10 | 6 10 | 0 40 | 20 52 | 1 34 |
| T 12 | 18 11 | 1 23 | 4 18 | 24 26 | 2 18 | 15 37 | 2 40 | 1 26 | 1 14 | 7 37 | 0 57 | 12 58 | 1 10 | 6 9 | 0 40 | 20 52 | 1 35 |
| F 13 | 18 26 | 4n46 | 4 51 | 24 23 | 2 11 | 15 16 | 2 25 | 1 27 | 1 12 | 7 33 | 0 57 | 12 57 | 1 10 | 6 9 | 0 40 | 20 52 | 1 35 |
| S 14 | 18 40 | 10 49 | 5 5 | 24 19 | 2 3 | 14 55 | 2 11 | 1 28 | 1 9 | 7 30 | 0 57 | 12 56 | 1 10 | 6 8 | 0 40 | 20 52 | 1 35 |
| S 15 | 18 55 | 16 21 | 4 59 | 24 12 | 1 54 | 14 36 | 1 57 | 1 29 | 1 7 | 7 27 | 0 57 | 12 55 | 1 10 | 6 7 | 0 40 | 20 52 | 1 35 |
| M 16 | 19 9 | 20 54 | 4 32 | 24 4 | 1 44 | 14 17 | 1 43 | 1 31 | 1 4 | 7 24 | 0 57 | 12 55 | 1 11 | 6 7 | 0 40 | 20 51 | 1 35 |
| T 17 | 19 22 | 24 2 | 3 45 | 23 55 | 1 33 | 13 59 | 1 29 | 1 33 | 1 2 | 7 21 | 0 58 | 12 54 | 1 11 | 6 6 | 0 40 | 20 51 | 1 35 |
| W 18 | 19 35 | 25 25 | 2 44 | 23 43 | 1 20 | 13 43 | 1 16 | 1 35 | 1 0 | 7 18 | 0 58 | 12 54 | 1 11 | 6 5 | 0 40 | 20 51 | 1 35 |
| T 19 | 19 48 | 24 58 | 1 33 | 23 30 | 1 7 | 13 27 | 1 2 | 1 38 | 0 57 | 7 15 | 0 58 | 12 53 | 1 11 | 6 5 | 0 40 | 20 51 | 1 35 |
| F 20 | 20 1 | 22 53 | 0 18 | 23 16 | 0 53 | 13 13 | 0 49 | 1 41 | 0 55 | 7 12 | 0 58 | 12 53 | 1 11 | 6 4 | 0 40 | 20 51 | 1 35 |
| S 21 | 20 13 | 19 30 | 0s56 | 23 0 | 0 38 | 13 0 | 0 37 | 1 44 | 0 53 | 7 9 | 0 59 | 12 52 | 1 11 | 6 4 | 0 40 | 20 50 | 1 35 |
| S 22 | 20 25 | 15 12 | 2 4 | 22 43 | 0 23 | 12 48 | 0 24 | 1 48 | 0 50 | 7 6 | 0 59 | 12 52 | 1 12 | 6 3 | 0 40 | 20 50 | 1 35 |
| M 23 | 20 37 | 10 21 | 3 4 | 22 24 | 0 6 | 12 37 | 0 12 | 1 51 | 0 48 | 7 3 | 0 59 | 12 51 | 1 12 | 6 2 | 0 40 | 20 50 | 1 35 |
| T 24 | 20 48 | 5 11 | 3 54 | 22 5 | 0s10 | 12 27 | 0 1 | 1 55 | 0 46 | 7 1 | 0 59 | 12 51 | 1 12 | 6 2 | 0 40 | 20 50 | 1 35 |
| W 25 | 20 59 | 0s 3 | 4 31 | 21 45 | 0 28 | 12 18 | 0s10 | 2 0 | 0 43 | 6 58 | 1 0 | 12 50 | 1 12 | 6 1 | 0 40 | 20 50 | 1 35 |
| T 26 | 21 9 | 5 12 | 4 56 | 21 24 | 0 45 | 12 10 | 0 21 | 2 4 | 0 41 | 6 55 | 1 0 | 12 50 | 1 12 | 6 1 | 0 40 | 20 49 | 1 35 |
| F 27 | 21 19 | 10 5 | 5 8 | 21 2 | 1 3 | 12 4 | 0 32 | 2 9 | 0 39 | 6 53 | 1 0 | 12 50 | 1 13 | 6 0 | 0 40 | 20 49 | 1 35 |
| S 28 | 21 29 | 14 36 | 5 6 | 20 40 | 1 20 | 11 58 | 0 42 | 2 14 | 0 37 | 6 50 | 1 0 | 12 50 | 1 13 | 6 0 | 0 40 | 20 49 | 1 35 |
| S 29 | 21 38 | 18 32 | 4 51 | 20 18 | 1 38 | 11 54 | 0 52 | 2 19 | 0 35 | 6 48 | 1 1 | 12 49 | 1 13 | 5 59 | 0 40 | 20 49 | 1 35 |
| M 30 | 21 47 | 21 45 | 4 24 | 19 57 | 1 55 | 11 50 | 1 1 | 2 24 | 0 33 | 6 45 | 1 1 | 12 49 | 1 13 | 5 59 | 0 40 | 20 49 | 1 35 |
| T 31 | 21n56 | 24s 3 | 3s45 | 19n35 | 2s11 | 11n48 | 1s10 | 2s30 | 0n31 | 6s43 | 1s 1 | 12s49 | 1s13 | 5s58 | 0n40 | 20s48 | 1n35 |

Julian Day Number = 2502799.5, Delta T = 115.27 sec
 Ecliptic obliquity = 23°25'19", Nutation = 0°00'15", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°42'04", Lahiri = 25°49'04"

ASTRODIENST EPHEMERIS for the year 2140

geocentric

JUNE 2140

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|------------------------|--------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|--------------------|--------------------|-------------------|--------------------|------|
| W 1 | 16 39 32 | 10 ^{II} 58'19 | 13 [♈] 15 | 8°R13 | 4 [♋] 29 | 7 [♊] 40 | 15 [♈] 26 | 29 [♊] 25 | 16°R44 | 13°R13 | 11 ^{II} 47 | 17°R33 | 19 [♈] 18 | 6 [♊] 47 | 12 [♈] 14 | W 1 |
| T 2 | 16 43 28 | 11°55'50 | 25°25 | 7 ^{II} 40 | 4°51 | 7°51 | 15°32 | 29°26 | 16 [♊] 43 | 13 [♈] 11 | 11°49 | 17 [♈] 29 | 19°14 | 6°54 | 12°20 | T 2 |
| F 3 | 16 47 25 | 12°53'20 | 7 [♈] 44 | 7° 9 | 5°14 | 8° 2 | 15°38 | 29°26 | 16°42 | 13°10 | 11°50 | 17°27 | 19°11 | 7° 1 | 12°25 | F 3 |
| S 4 | 16 51 22 | 13°50'49 | 20°13 | 6°40 | 5°39 | 8°14 | 15°44 | 29°27 | 16°41 | 13° 8 | 11°51 | 17°D27 | 19° 8 | 7° 7 | 12°31 | S 4 |
| S 5 | 16 55 18 | 14°48'17 | 2 [♊] 54 | 6°14 | 6° 5 | 8°27 | 15°50 | 29°27 | 16°40 | 13° 6 | 11°53 | 17°28 | 19° 5 | 7°14 | 12°37 | S 5 |
| M 6 | 16 59 15 | 15°45'45 | 15°50 | 5°50 | 6°33 | 8°40 | 15°56 | 29°28 | 16°39 | 13° 5 | 11°54 | 17°29 | 19° 2 | 7°21 | 12°42 | M 6 |
| T 7 | 17 3 11 | 16°43'11 | 29° 2 | 5°30 | 7° 3 | 8°53 | 16° 1 | 29°28 | 16°38 | 13° 3 | 11°56 | 17°31 | 18°58 | 7°28 | 12°48 | T 7 |
| W 8 | 17 7 8 | 17°40'37 | 12 [♋] 34 | 5°13 | 7°34 | 9° 8 | 16° 7 | 29°28 | 16°38 | 13° 2 | 11°57 | 17°R31 | 18°55 | 7°34 | 12°54 | W 8 |
| T 9 | 17 11 4 | 18°38'03 | 26°25 | 5° 0 | 8° 6 | 9°22 | 16°12 | 29°R28 | 16°37 | 13° 0 | 11°58 | 17°31 | 18°52 | 7°41 | 13° 0 | T 9 |
| F 10 | 17 15 1 | 19°35'27 | 10 [♈] 36 | 4°52 | 8°40 | 9°38 | 16°17 | 29°28 | 16°36 | 12°58 | 12° 0 | 17°30 | 18°49 | 7°48 | 13° 6 | F 10 |
| S 11 | 17 18 57 | 20°32'52 | 25° 6 | 4°D47 | 9°15 | 9°54 | 16°21 | 29°28 | 16°35 | 12°57 | 12° 1 | 17°28 | 18°46 | 7°54 | 13°11 | S 11 |
| S 12 | 17 22 54 | 21°30'16 | 9 [♋] 50 | 4°48 | 9°51 | 10°10 | 16°26 | 29°28 | 16°35 | 12°55 | 12° 2 | 17°24 | 18°43 | 8° 1 | 13°17 | S 12 |
| M13 | 17 26 51 | 22°27'39 | 24°42 | 4°52 | 10°29 | 10°27 | 16°31 | 29°27 | 16°34 | 12°54 | 12° 4 | 17°21 | 18°39 | 8° 8 | 13°23 | M13 |
| T 14 | 17 30 47 | 23°25'02 | 9 ^{II} 35 | 5° 1 | 11° 7 | 10°44 | 16°35 | 29°27 | 16°34 | 12°52 | 12° 5 | 17°18 | 18°36 | 8°15 | 13°29 | T 14 |
| W15 | 17 34 44 | 24°22'24 | 24°20 | 5°15 | 11°47 | 11° 2 | 16°39 | 29°26 | 16°33 | 12°50 | 12° 6 | 17°16 | 18°33 | 8°21 | 13°35 | W15 |
| T 16 | 17 38 40 | 25°19'45 | 8 [♈] 51 | 5°33 | 12°28 | 11°20 | 16°43 | 29°26 | 16°33 | 12°49 | 12° 8 | 17°14 | 18°30 | 8°28 | 13°41 | T 16 |
| F 17 | 17 42 37 | 26°17'06 | 23° 1 | 5°56 | 13° 9 | 11°39 | 16°47 | 29°25 | 16°32 | 12°47 | 12° 9 | 17°D14 | 18°27 | 8°35 | 13°47 | F 17 |
| S 18 | 17 46 33 | 27°14'26 | 6 [♊] 47 | 6°23 | 13°52 | 11°58 | 16°50 | 29°24 | 16°32 | 12°46 | 12°10 | 17°15 | 18°24 | 8°42 | 13°53 | S 18 |
| S 19 | 17 50 30 | 28°11'45 | 20° 8 | 6°55 | 14°35 | 12°18 | 16°54 | 29°23 | 16°32 | 12°44 | 12°12 | 17°16 | 18°20 | 8°48 | 13°59 | S 19 |
| M20 | 17 54 26 | 29° 9'03 | 3 [♈] 5 | 7°31 | 15°20 | 12°38 | 16°57 | 29°22 | 16°31 | 12°43 | 12°13 | 17°18 | 18°17 | 8°55 | 14° 5 | M20 |
| T 21 | 17 58 23 | 0 [♈] 6'20 | 15°41 | 8°11 | 16° 5 | 12°59 | 17° 0 | 29°21 | 16°31 | 12°41 | 12°14 | 17°19 | 18°14 | 9° 2 | 14°11 | T 21 |
| W22 | 18 2 20 | 1° 3'36 | 27°59 | 8°55 | 16°52 | 13°20 | 17° 3 | 29°20 | 16°31 | 12°40 | 12°16 | 17°R19 | 18°11 | 9° 8 | 14°18 | W22 |
| T 23 | 18 6 16 | 2° 0'52 | 10 [♊] 5 | 9°43 | 17°38 | 13°41 | 17° 5 | 29°18 | 16°31 | 12°38 | 12°17 | 17°19 | 18° 8 | 9°15 | 14°24 | T 23 |
| F 24 | 18 10 13 | 2°58'07 | 22° 2 | 10°36 | 18°26 | 14° 3 | 17° 8 | 29°17 | 16°D31 | 12°37 | 12°18 | 17°18 | 18° 4 | 9°22 | 14°30 | F 24 |
| S 25 | 18 14 9 | 3°55'22 | 3 [♈] 55 | 11°33 | 19°15 | 14°25 | 17°10 | 29°15 | 16°31 | 12°35 | 12°20 | 17°17 | 18° 1 | 9°29 | 14°36 | S 25 |
| S 26 | 18 18 6 | 4°52'36 | 15°47 | 12°33 | 20° 4 | 14°48 | 17°12 | 29°14 | 16°31 | 12°34 | 12°21 | 17°15 | 17°58 | 9°35 | 14°42 | S 26 |
| M27 | 18 22 2 | 5°49'49 | 27°43 | 13°37 | 20°54 | 15°11 | 17°14 | 29°12 | 16°31 | 12°32 | 12°22 | 17°14 | 17°55 | 9°42 | 14°48 | M27 |
| T 28 | 18 25 59 | 6°47'02 | 9 [♈] 46 | 14°46 | 21°44 | 15°34 | 17°16 | 29°10 | 16°31 | 12°31 | 12°23 | 17°12 | 17°52 | 9°49 | 14°55 | T 28 |
| W29 | 18 29 55 | 7°44'15 | 21°58 | 15°57 | 22°36 | 15°58 | 17°17 | 29° 8 | 16°32 | 12°29 | 12°25 | 17°11 | 17°49 | 9°55 | 15° 1 | W29 |
| T 30 | 18 33 52 | 8 [♈] 41'27 | 4 [♋] 20 | 17 ^{II} 13 | 23 [♋] 27 | 16 [♊] 22 | 17 [♈] 18 | 29 [♊] 7 | 16 [♊] 32 | 12 [♈] 28 | 12 ^{II} 26 | 17 [♈] 10 | 17 [♈] 45 | 10 [♊] 2 | 15 [♈] 7 | T 30 |

| Day | ☉ | ☾ | | ♂ | | ♀ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | | ♂ | |
|------|-------|-------|------|-------|------|-------|------|------|------|------|------|-------|------|------|------|-------|------|-------|-------|-------|-------|-------|-------|------|-----|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat |
| W 1 | 22n 4 | 25s16 | 2s55 | 19n15 | 2s27 | 11n46 | 1s19 | 2s36 | 0n29 | 6s41 | 1s 1 | 12s49 | 1s14 | 5s58 | 0n40 | 20s48 | 1n35 | 11n13 | 11s 4 | 22s16 | 22s 2 | 18s24 | 16n40 | 6s13 | |
| T 2 | 22 12 | 25 18 | 1 57 | 18 55 | 2 42 | 11 45 | 1 27 | 2 42 | 0 27 | 6 39 | 1 2 | 12 49 | 1 14 | 5 58 | 0 39 | 20 48 | 1 35 | 11 13 | 11 4 | 22 17 | 22 3 | 18 26 | 16 40 | 6 13 | |
| F 3 | 22 20 | 24 4 | 0 53 | 18 36 | 2 56 | 11 46 | 1 35 | 2 48 | 0 25 | 6 37 | 1 2 | 12 49 | 1 14 | 5 57 | 0 39 | 20 48 | 1 35 | 11 13 | 11 4 | 22 17 | 22 3 | 18 28 | 16 39 | 6 13 | |
| S 4 | 22 27 | 21 39 | 0n15 | 18 18 | 3 9 | 11 47 | 1 43 | 2 55 | 0 23 | 6 35 | 1 2 | 12 49 | 1 14 | 5 57 | 0 39 | 20 48 | 1 35 | 11 13 | 11 4 | 22 17 | 22 3 | 18 30 | 16 39 | 6 12 | |
| S 5 | 22 33 | 18 8 | 1 23 | 18 2 | 3 21 | 11 48 | 1 50 | 3 2 | 0 21 | 6 33 | 1 3 | 12 49 | 1 14 | 5 56 | 0 39 | 20 47 | 1 35 | 11 14 | 11 4 | 22 17 | 22 4 | 18 32 | 16 39 | 6 12 | |
| M 6 | 22 40 | 13 42 | 2 29 | 17 47 | 3 32 | 11 51 | 1 57 | 3 8 | 0 19 | 6 31 | 1 3 | 12 49 | 1 15 | 5 56 | 0 39 | 20 47 | 1 35 | 11 14 | 11 4 | 22 17 | 22 4 | 18 34 | 16 39 | 6 12 | |
| T 7 | 22 46 | 8 33 | 3 28 | 17 34 | 3 41 | 11 54 | 2 4 | 3 16 | 0 17 | 6 29 | 1 3 | 12 49 | 1 15 | 5 56 | 0 39 | 20 47 | 1 35 | 11 14 | 11 4 | 22 17 | 22 5 | 18 36 | 16 38 | 6 12 | |
| W 8 | 22 51 | 2 53 | 4 17 | 17 23 | 3 49 | 11 58 | 2 10 | 3 23 | 0 15 | 6 27 | 1 3 | 12 49 | 1 15 | 5 56 | 0 39 | 20 47 | 1 35 | 11 14 | 11 4 | 22 16 | 22 5 | 18 38 | 16 38 | 6 12 | |
| T 9 | 22 56 | 3n 3 | 4 52 | 17 14 | 3 56 | 12 3 | 2 16 | 3 30 | 0 13 | 6 25 | 1 4 | 12 49 | 1 15 | 5 55 | 0 39 | 20 47 | 1 35 | 11 14 | 11 4 | 22 16 | 22 6 | 18 40 | 16 37 | 6 11 | |
| F 10 | 23 1 | 8 58 | 5 11 | 17 7 | 4 2 | 12 9 | 2 22 | 3 38 | 0 12 | 6 23 | 1 4 | 12 50 | 1 15 | 5 55 | 0 39 | 20 46 | 1 35 | 11 15 | 11 4 | 22 17 | 22 6 | 18 42 | 16 37 | 6 11 | |
| S 11 | 23 5 | 14 31 | 5 11 | 17 2 | 4 7 | 12 14 | 2 27 | 3 46 | 0 10 | 6 22 | 1 4 | 12 50 | 1 16 | 5 55 | 0 39 | 20 46 | 1 35 | 11 15 | 11 4 | 22 17 | 22 7 | 18 44 | 16 37 | 6 11 | |
| S 12 | 23 9 | 19 20 | 4 50 | 16 59 | 4 10 | 12 21 | 2 32 | 3 54 | 0 8 | 6 20 | 1 4 | 12 50 | 1 16 | 5 55 | 0 39 | 20 46 | 1 35 | 11 15 | 11 4 | 22 17 | 22 7 | 18 46 | 16 36 | 6 11 | |
| M13 | 23 12 | 22 58 | 4 9 | 16 58 | 4 12 | 12 28 | 2 37 | 4 2 | 0 6 | 6 19 | 1 5 | 12 50 | 1 16 | 5 54 | 0 39 | 20 46 | 1 35 | 11 15 | 11 4 | 22 18 | 22 7 | 18 48 | 16 36 | 6 11 | |
| T 14 | 23 15 | 25 2 | 3 12 | 16 59 | 4 13 | 12 36 | 2 42 | 4 10 | 0 5 | 6 17 | 1 5 | 12 51 | 1 16 | 5 54 | 0 39 | 20 46 | 1 35 | 11 15 | 11 4 | 22 18 | 22 8 | 18 50 | 16 35 | 6 11 | |
| W15 | 23 18 | 25 21 | 2 3 | 17 1 | 4 12 | 12 44 | 2 46 | 4 19 | 0 3 | 6 16 | 1 5 | 12 51 | 1 16 | 5 54 | 0 39 | 20 46 | 1 35 | 11 15 | 11 4 | 22 19 | 22 8 | 18 52 | 16 35 | 6 11 | |
| T 16 | 23 20 | 23 54 | 0 46 | 17 6 | 4 11 | 12 52 | 2 50 | 4 28 | 0 1 | 6 15 | 1 6 | 12 52 | 1 17 | 5 54 | 0 39 | 20 45 | 1 34 | 11 16 | 11 4 | 22 19 | 22 9 | 18 53 | 16 35 | 6 10 | |
| F 17 | 23 22 | 20 56 | 0s32 | 17 12 | 4 9 | 13 1 | 2 54 | 4 36 | 0s 0 | 6 14 | 1 6 | 12 52 | 1 17 | 5 54 | 0 39 | 20 45 | 1 34 | 11 16 | 11 4 | 22 19 | 22 9 | 18 55 | 16 34 | 6 10 | |
| S 18 | 23 24 | 16 52 | 1 46 | 17 20 | 4 5 | 13 10 | 2 57 | 4 45 | 0 2 | 6 13 | 1 6 | 12 53 | 1 17 | 5 54 | 0 39 | 20 45 | 1 34 | 11 16 | 11 4 | 22 19 | 22 10 | 18 57 | 16 34 | 6 10 | |
| S 19 | 23 25 | 12 3 | 2 51 | 17 29 | 4 1 | 13 20 | 3 0 | 4 54 | 0 3 | 6 12 | 1 6 | 12 53 | 1 17 | 5 54 | 0 39 | 20 45 | 1 34 | 11 16 | 11 4 | 22 18 | 22 10 | 18 59 | 16 33 | 6 10 | |
| M20 | 23 25 | 6 51 | 3 47 | 17 40 | 3 56 | 13 30 | 3 3 | 5 4 | 0 5 | 6 11 | 1 7 | 12 54 | 1 17 | 5 54 | 0 39 | 20 45 | 1 34 | 11 16 | 11 4 | 22 18 | 22 10 | 19 1 | 16 33 | 6 10 | |
| T 21 | 23 25 | 1 30 | 4 29 | 17 52 | 3 50 | 13 40 | 3 6 | 5 13 | 0 6 | 6 10 | 1 7 | 12 54 | 1 18 | 5 54 | 0 39 | 20 44 | 1 34 | 11 16 | 11 4 | 22 18 | 22 11 | 19 3 | 16 32 | 6 10 | |
| W22 | 23 25 | 3s46 | 4 58 | 18 5 | 3 43 | 13 51 | 3 9 | 5 23 | 0 8 | 6 9 | 1 7 | 12 55 | 1 18 | 5 54 | 0 39 | 20 44 | 1 34 | 11 16 | 11 4 | 22 18 | 22 11 | 19 5 | 16 31 | 6 10 | |
| T 23 | 23 24 | 8 47 | 5 13 | 18 20 | 3 36 | 14 1 | 3 11 | 5 32 | 0 9 | 6 8 | 1 8 | 12 55 | 1 18 | 5 54 | 0 39 | 20 44 | 1 34 | 11 16 | 11 4 | 22 18 | 22 12 | 19 7 | 16 31 | 6 10 | |
| F 24 | 23 23 | 13 26 | 5 15 | 18 35 | 3 28 | 14 12 | 3 13 | 5 42 | 0 11 | 6 7 | 1 8 | 12 56 | 1 18 | 5 54 | 0 39 | 20 44 | 1 34 | 11 17 | 11 4 | 22 18 | 22 12 | 19 9 | 16 30 | 6 10 | |
| S 25 | 23 22 | 17 33 | 5 3 | 18 52 | 3 19 | 14 24 | 3 15 | 5 52 | 0 12 | 6 7 | 1 8 | 12 57 | 1 18 | 5 54 | 0 39 | 20 44 | 1 34 | 11 17 | 11 4 | 22 18 | 22 13 | 19 11 | 16 30 | 6 10 | |
| S 26 | 23 20 | 20 59 | 4 38 | 19 9 | 3 10 | 14 35 | 3 17 | 6 2 | 0 14 | 6 6 | 1 8 | 12 58 | 1 18 | 5 54 | 0 39 | 20 44 | 1 34 | 11 17 | 11 4 | 22 19 | 22 13 | 19 12 | 16 29 | 6 10 | |
| M27 | 23 18 | 23 32 | 4 1 | 19 26 | 3 0 | 14 47 | 3 18 | 6 12 | 0 15 | 6 6 | 1 9 | 12 58 | 1 19 | 5 54 | 0 39 | 20 43 | 1 34 | 11 17 | 11 4 | 22 19 | 22 13 | 19 14 | 16 29 | 6 10 | |
| T 28 | 23 15 | 25 4 | 3 12 | 19 44 | 2 50 | 14 58 | 3 20 | 6 23 | 0 16 | 6 5 | 1 9 | 12 59 | 1 19 | 5 54 | 0 38 | 20 43 | 1 34 | 11 17 | 11 4 | 22 19 | 22 14 | 19 16 | 16 28 | 6 10 | |
| W29 | 23 12 | 25 26 | 2 15 | 20 3 | 3 29 | 15 10 | 3 21 | 6 33 | 0 18 | 6 5 | 1 9 | 13 0 | 1 19 | 5 54 | 0 38 | 20 43 | 1 34 | 11 17 | 11 4 | 22 19 | 22 14 | 19 18 | 16 27 | 6 10 | |
| T 30 | 23n 8 | 24s31 | 1s10 | 20n21 | 2s28 | 15n22 | 3s22 | 6s43 | 0s19 | 6s 5 | 1s10 | 13s 1 | 1s19 | 5s54 | 0n38 | 20s43 | 1n34 | 11n17 | 11s 4 | 22s19 | 22s15 | 19s20 | 16m27 | 6s10 | |

ASTRODIENST EPHEMERIS for the year 2140
geocentric

JULY 2140

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | ♈ | ♉ | Day |
|------|----------|----------|-------|-------|-------|-------|--------|--------|-------|--------|-------|--------|-------|-------|-------|------|
| F 1 | 18 37 49 | 9♉38'39 | 16♊55 | 18♋32 | 24♌20 | 16♍46 | 17♎20 | 29°R 4 | 16♏32 | 12°R26 | 12♐27 | 17°D10 | 17♑42 | 10♒9 | 15♓13 | F 1 |
| S 2 | 18 41 45 | 10°35'51 | 29°43 | 19°55 | 25°13 | 17°11 | 17°20 | 29°22 | 16°33 | 12°25 | 12°28 | 17♒10 | 17°39 | 10°16 | 15°20 | S 2 |
| S 3 | 18 45 42 | 11°33'02 | 12°44 | 21°22 | 26° 6 | 17°36 | 17°21 | 29° 0 | 16°33 | 12°24 | 12°30 | 17°11 | 17°36 | 10°22 | 15°26 | S 3 |
| M 4 | 18 49 38 | 12°30'14 | 26° 0 | 22°52 | 27° 1 | 18° 2 | 17°22 | 28°58 | 16°34 | 12°22 | 12°31 | 17°11 | 17°33 | 10°29 | 15°32 | M 4 |
| T 5 | 18 53 35 | 13°27'26 | 9♋29 | 24°26 | 27°55 | 18°27 | 17°22 | 28°55 | 16°34 | 12°21 | 12°32 | 17°12 | 17°30 | 10°36 | 15°38 | T 5 |
| W 6 | 18 57 31 | 14°24'38 | 23°11 | 26° 3 | 28°50 | 18°53 | 17°R22 | 28°53 | 16°35 | 12°20 | 12°33 | 17°12 | 17°26 | 10°42 | 15°45 | W 6 |
| T 7 | 19 1 28 | 15°21'50 | 7♌6 | 27°43 | 29°46 | 19°20 | 17°22 | 28°50 | 16°36 | 12°18 | 12°34 | 17°12 | 17°23 | 10°49 | 15°51 | T 7 |
| F 8 | 19 5 25 | 16°19'02 | 21°13 | 29°27 | 0♍42 | 19°47 | 17°22 | 28°48 | 16°36 | 12°17 | 12°36 | 17°R12 | 17°20 | 10°56 | 15°57 | F 8 |
| S 9 | 19 9 21 | 17°16'15 | 5♎30 | 1♎14 | 1°39 | 20°14 | 17°22 | 28°45 | 16°37 | 12°16 | 12°37 | 17°D12 | 17°17 | 11° 2 | 16° 3 | S 9 |
| S 10 | 19 13 18 | 18°13'29 | 19°55 | 3° 4 | 2°36 | 20°41 | 17°21 | 28°42 | 16°38 | 12°15 | 12°38 | 17°12 | 17°14 | 11° 9 | 16°10 | S 10 |
| M 11 | 19 17 14 | 19°10'42 | 4♎22 | 4°57 | 3°33 | 21° 8 | 17°20 | 28°39 | 16°39 | 12°13 | 12°39 | 17°12 | 17°10 | 11°16 | 16°16 | M 11 |
| T 12 | 19 21 11 | 20° 7'56 | 18°49 | 6°52 | 4°31 | 21°36 | 17°19 | 28°36 | 16°40 | 12°12 | 12°40 | 17°12 | 17° 7 | 11°23 | 16°22 | T 12 |
| W 13 | 19 25 7 | 21° 5'11 | 3♎10 | 8°50 | 5°29 | 22° 5 | 17°18 | 28°33 | 16°41 | 12°11 | 12°41 | 17°13 | 17° 4 | 11°29 | 16°29 | W 13 |
| T 14 | 19 29 4 | 22° 2'26 | 17°20 | 10°51 | 6°28 | 22°33 | 17°16 | 28°30 | 16°42 | 12°10 | 12°42 | 17°R13 | 17° 1 | 11°36 | 16°35 | T 14 |
| F 15 | 19 33 0 | 22°59'41 | 1♎15 | 12°53 | 7°27 | 23° 2 | 17°15 | 28°27 | 16°43 | 12° 9 | 12°44 | 17°13 | 16°58 | 11°43 | 16°41 | F 15 |
| S 16 | 19 36 57 | 23°56'56 | 14°52 | 14°57 | 8°26 | 23°31 | 17°13 | 28°24 | 16°44 | 12° 8 | 12°45 | 17°12 | 16°55 | 11°49 | 16°47 | S 16 |
| S 17 | 19 40 54 | 24°54'11 | 28° 8 | 17° 3 | 9°26 | 24° 0 | 17°11 | 28°21 | 16°45 | 12° 6 | 12°46 | 17°11 | 16°51 | 11°56 | 16°54 | S 17 |
| M 18 | 19 44 50 | 25°51'26 | 11♎4 | 19°10 | 10°26 | 24°30 | 17° 9 | 28°17 | 16°46 | 12° 5 | 12°47 | 17°10 | 16°48 | 12° 3 | 17° 0 | M 18 |
| T 19 | 19 48 47 | 26°48'42 | 23°41 | 21°17 | 11°26 | 25° 0 | 17° 7 | 28°14 | 16°48 | 12° 4 | 12°48 | 17° 9 | 16°45 | 12°10 | 17° 6 | T 19 |
| W 20 | 19 52 43 | 27°45'58 | 6♎1 | 23°25 | 12°27 | 25°30 | 17° 4 | 28°10 | 16°49 | 12° 3 | 12°49 | 17° 8 | 16°42 | 12°16 | 17°12 | W 20 |
| T 21 | 19 56 40 | 28°43'14 | 18° 8 | 25°34 | 13°28 | 26° 0 | 17° 1 | 28° 7 | 16°50 | 12° 2 | 12°50 | 17° 7 | 16°39 | 12°23 | 17°19 | T 21 |
| F 22 | 20 0 36 | 29°40'30 | 0♎6 | 27°42 | 14°29 | 26°31 | 16°58 | 28° 3 | 16°52 | 12° 1 | 12°51 | 17°D 7 | 16°36 | 12°30 | 17°25 | F 22 |
| S 23 | 20 4 33 | 0♎37'46 | 11°59 | 29°50 | 15°31 | 27° 1 | 16°55 | 27°59 | 16°53 | 12° 0 | 12°52 | 17° 8 | 16°32 | 12°36 | 17°31 | S 23 |
| S 24 | 20 8 29 | 1°35'03 | 23°52 | 1♎58 | 16°33 | 27°33 | 16°52 | 27°56 | 16°55 | 11°59 | 12°53 | 17° 8 | 16°29 | 12°43 | 17°37 | S 24 |
| M 25 | 20 12 26 | 2°32'20 | 5♎5 | 4° 5 | 17°35 | 28° 4 | 16°48 | 27°52 | 16°56 | 11°59 | 12°54 | 17°10 | 16°26 | 12°50 | 17°43 | M 25 |
| T 26 | 20 16 23 | 3°29'37 | 17°56 | 6°10 | 18°37 | 28°35 | 16°45 | 27°48 | 16°58 | 11°58 | 12°55 | 17°11 | 16°23 | 12°57 | 17°49 | T 26 |
| W 27 | 20 20 19 | 4°26'55 | 0♎15 | 8°15 | 19°40 | 29° 7 | 16°41 | 27°44 | 17° 0 | 11°57 | 12°56 | 17°12 | 16°20 | 13° 3 | 17°56 | W 27 |
| T 28 | 20 24 16 | 5°24'13 | 12°49 | 10°19 | 20°43 | 29°39 | 16°37 | 27°40 | 17° 2 | 11°56 | 12°57 | 17°R13 | 16°16 | 13°10 | 18° 2 | T 28 |
| F 29 | 20 28 12 | 6°21'32 | 25°40 | 12°21 | 21°46 | 0♎11 | 16°33 | 27°36 | 17° 3 | 11°55 | 12°57 | 17°13 | 16°13 | 13°17 | 18° 8 | F 29 |
| S 30 | 20 32 9 | 7°18'51 | 8♎48 | 14°22 | 22°49 | 0°44 | 16°28 | 27°32 | 17° 5 | 11°54 | 12°58 | 17°12 | 16°10 | 13°23 | 18°14 | S 30 |
| S 31 | 20 36 5 | 8♎16'11 | 22°44 | 16♎21 | 23♎53 | 1♎16 | 16°24 | 27°28 | 17° 7 | 11°54 | 12°59 | 17♒9 | 16♒7 | 13♓30 | 18♓20 | S 31 |

| Day | ☉ | ☾ | | ♊ | | ♋ | | ♌ | | ♍ | | ♎ | | ♏ | | ♐ | | ♑ | | ♒ | ♓ | ♈ | ♉ | |
|------|-------|-------|------|-------|------|-------|------|-------|------|------|------|-------|------|------|------|-------|------|-------|-------|-------|-------|-------|-------|------|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 23n 4 | 22s22 | 0s 1 | 20n40 | 2s16 | 15n34 | 3s22 | 6s54 | 0s20 | 6s 5 | 1s10 | 13s 2 | 1s19 | 5s54 | 0n38 | 20s43 | 1n34 | 11n17 | 11s 4 | 22s19 | 22s15 | 19s22 | 16n26 | 6s10 |
| S 2 | 23 0 | 19 4 | 1n 9 | 20 58 | 2 5 | 15 46 | 3 23 | 7 5 | 0 22 | 6 5 | 1 10 | 13 3 | 1 20 | 5 55 | 0 38 | 20 43 | 1 34 | 11 17 | 11 4 | 22 19 | 22 15 | 19 23 | 16 25 | 6 10 |
| S 3 | 22 55 | 14 47 | 2 17 | 21 16 | 1 53 | 15 58 | 3 23 | 7 16 | 0 23 | 6 5 | 1 11 | 13 4 | 1 20 | 5 55 | 0 38 | 20 43 | 1 34 | 11 17 | 11 4 | 22 19 | 22 16 | 19 25 | 16 25 | 6 10 |
| M 4 | 22 50 | 9 43 | 3 19 | 21 34 | 1 40 | 16 10 | 3 24 | 7 26 | 0 24 | 6 5 | 1 11 | 13 5 | 1 20 | 5 55 | 0 38 | 20 42 | 1 34 | 11 17 | 11 4 | 22 19 | 22 16 | 19 27 | 16 24 | 6 10 |
| T 5 | 22 45 | 4 8 | 4 11 | 21 50 | 1 28 | 16 22 | 3 24 | 7 37 | 0 26 | 6 5 | 1 11 | 13 6 | 1 20 | 5 55 | 0 38 | 20 42 | 1 34 | 11 18 | 11 5 | 22 19 | 22 17 | 19 29 | 16 23 | 6 10 |
| W 6 | 22 39 | 1n44 | 4 50 | 22 6 | 1 15 | 16 34 | 3 24 | 7 48 | 0 27 | 6 5 | 1 11 | 13 7 | 1 20 | 5 56 | 0 38 | 20 42 | 1 34 | 11 18 | 11 5 | 22 19 | 22 17 | 19 31 | 16 22 | 6 10 |
| T 7 | 22 32 | 7 36 | 5 12 | 22 21 | 1 3 | 16 46 | 3 23 | 8 0 | 0 28 | 6 5 | 1 12 | 13 8 | 1 21 | 5 56 | 0 38 | 20 42 | 1 34 | 11 18 | 11 5 | 22 19 | 22 18 | 19 33 | 16 22 | 6 10 |
| F 8 | 22 26 | 13 9 | 5 16 | 22 35 | 0 50 | 16 58 | 3 23 | 8 11 | 0 29 | 6 6 | 1 12 | 13 9 | 1 21 | 5 56 | 0 38 | 20 42 | 1 34 | 11 18 | 11 5 | 22 19 | 22 18 | 19 34 | 16 21 | 6 10 |
| S 9 | 22 18 | 18 4 | 5 1 | 22 47 | 0 38 | 17 10 | 3 23 | 8 22 | 0 30 | 6 6 | 1 12 | 13 10 | 1 21 | 5 57 | 0 38 | 20 42 | 1 34 | 11 18 | 11 5 | 22 19 | 22 18 | 19 36 | 16 20 | 6 10 |
| S 10 | 22 11 | 21 59 | 4 27 | 22 58 | 0 26 | 17 22 | 3 22 | 8 33 | 0 32 | 6 7 | 1 13 | 13 11 | 1 21 | 5 57 | 0 38 | 20 42 | 1 34 | 11 18 | 11 5 | 22 19 | 22 19 | 19 38 | 16 19 | 6 10 |
| M 11 | 22 3 | 24 32 | 3 36 | 23 6 | 0 14 | 17 33 | 3 21 | 8 45 | 0 33 | 6 7 | 1 13 | 13 12 | 1 21 | 5 57 | 0 38 | 20 41 | 1 34 | 11 18 | 11 5 | 22 19 | 22 19 | 19 40 | 16 19 | 6 10 |
| T 12 | 21 55 | 25 28 | 2 31 | 23 13 | 0 2 | 17 45 | 3 20 | 8 56 | 0 34 | 6 8 | 1 13 | 13 13 | 1 21 | 5 58 | 0 38 | 20 41 | 1 34 | 11 18 | 11 5 | 22 19 | 22 20 | 19 41 | 16 18 | 6 10 |
| W 13 | 21 46 | 24 40 | 1 17 | 23 17 | 0n10 | 17 56 | 3 19 | 9 8 | 0 35 | 6 9 | 1 14 | 13 14 | 1 22 | 5 58 | 0 38 | 20 41 | 1 34 | 11 18 | 11 5 | 22 19 | 22 20 | 19 43 | 16 17 | 6 10 |
| T 14 | 21 37 | 22 17 | 0s 1 | 23 19 | 0 21 | 18 7 | 3 18 | 9 20 | 0 36 | 6 9 | 1 14 | 13 16 | 1 22 | 5 59 | 0 38 | 20 41 | 1 34 | 11 18 | 11 5 | 22 19 | 22 20 | 19 45 | 16 16 | 6 10 |
| F 15 | 21 28 | 18 37 | 1 17 | 23 19 | 0 31 | 18 18 | 3 17 | 9 31 | 0 37 | 6 10 | 1 14 | 13 17 | 1 22 | 5 59 | 0 38 | 20 41 | 1 34 | 11 18 | 11 6 | 22 19 | 22 21 | 19 47 | 16 15 | 6 10 |
| S 16 | 21 18 | 14 1 | 2 27 | 23 16 | 0 41 | 18 29 | 3 15 | 9 43 | 0 38 | 6 11 | 1 14 | 13 18 | 1 22 | 5 59 | 0 38 | 20 41 | 1 34 | 11 18 | 11 6 | 22 19 | 22 21 | 19 49 | 16 15 | 6 10 |
| S 17 | 21 8 | 8 52 | 3 28 | 23 11 | 0 51 | 18 39 | 3 14 | 9 55 | 0 39 | 6 12 | 1 15 | 13 20 | 1 22 | 6 0 | 0 38 | 20 41 | 1 34 | 11 18 | 11 6 | 22 19 | 22 22 | 19 50 | 16 14 | 6 10 |
| M 18 | 20 58 | 3 28 | 4 16 | 23 2 | 1 0 | 18 50 | 3 12 | 10 7 | 0 40 | 6 13 | 1 15 | 13 21 | 1 22 | 6 0 | 0 38 | 20 41 | 1 34 | 11 18 | 11 6 | 22 19 | 22 22 | 19 52 | 16 13 | 6 10 |
| T 19 | 20 47 | 1s56 | 4 50 | 22 51 | 1 8 | 19 0 | 3 10 | 10 19 | 0 41 | 6 15 | 1 15 | 13 22 | 1 23 | 6 1 | 0 38 | 20 41 | 1 33 | 11 18 | 11 6 | 22 19 | 22 22 | 19 54 | 16 12 | 6 11 |
| W 20 | 20 36 | 7 8 | 5 10 | 22 38 | 1 15 | 19 10 | 3 8 | 10 30 | 0 42 | 6 16 | 1 16 | 13 24 | 1 23 | 6 2 | 0 38 | 20 41 | 1 33 | 11 18 | 11 6 | 22 19 | 22 23 | 19 55 | 16 11 | 6 11 |
| T 21 | 20 24 | 11 58 | 5 16 | 22 21 | 1 22 | 19 19 | 3 6 | 10 42 | 0 43 | 6 17 | 1 16 | 13 25 | 1 23 | 6 2 | 0 38 | 20 40 | 1 33 | 11 18 | 11 6 | 22 20 | 22 23 | 19 57 | 16 10 | 6 11 |
| F 22 | 20 12 | 16 18 | 5 8 | 22 2 | 1 28 | 19 28 | 3 4 | 10 54 | 0 44 | 6 19 | 1 16 | 13 26 | 1 23 | 6 3 | 0 38 | 20 40 | 1 33 | 11 18 | 11 6 | 22 20 | 22 24 | 19 59 | 16 9 | 6 11 |
| S 23 | 20 0 | 19 58 | 4 47 | 21 41 | 1 33 | 19 37 | 3 2 | 11 7 | 0 45 | 6 20 | 1 16 | 13 28 | 1 23 | 6 3 | 0 37 | 20 40 | 1 33 | 11 18 | 11 7 | 22 20 | 22 24 | 20 1 | 16 8 | 6 11 |
| S 24 | 19 48 | 22 49 | 4 14 | 21 17 | 1 37 | 19 46 | 3 0 | 11 19 | 0 46 | 6 22 | 1 17 | 13 29 | 1 23 | 6 4 | 0 37 | 20 40 | 1 33 | 11 18 | 11 7 | 22 19 | 22 24 | 20 2 | 16 7 | 6 11 |
| M 25 | 19 35 | 24 42 | 3 29 | 20 51 | 1 40 | 19 54 | 2 57 | 11 31 | 0 47 | 6 23 | 1 17 | 13 31 | 1 23 | 6 5 | 0 37 | 20 40 | 1 33 | 11 18 | 11 7 | 22 19 | 22 25 | 20 4 | 16 7 | 6 11 |
| T 26 | 19 22 | 25 27 | 2 35 | 20 23 | 1 43 | 20 2 | 2 55 | 11 43 | 0 48 | 6 25 | 1 17 | 13 32 | 1 24 | 6 5 | 0 37 | 20 40 | 1 33 | 11 18 | 11 7 | 22 19 | 22 25 | 20 6 | 16 6 | 6 12 |
| W 27 | 19 8 | 24 58 | 1 32 | 19 53 | 1 45 | 20 9 | 2 52 | 11 55 | 0 49 | 6 27 | 1 18 | 13 34 | 1 24 | 6 6 | 0 37 | 20 40 | 1 33 | 11 18 | 11 7 | 22 19 | 22 25 | 20 7 | 16 5 | 6 12 |
| T 28 | 18 54 | 23 12 | 0 24 | 19 21 | 1 46 | 20 16 | 2 50 | 12 7 | 0 50 | 6 28 | 1 18 | 13 35 | 1 24 | 6 7 | 0 37 | 20 40 | 1 33 | 11 18 | 11 7 | 22 19 | 22 26 | 20 9 | 16 4 | 6 12 |
| F 29 | 18 40 | 20 14 | 0n46 | 18 48 | 1 47 | 20 23 | 2 47 | 12 19 | 0 51 | 6 30 | 1 18 | 13 37 | 1 24 | 6 7 | 0 37 | 20 40 | 1 33 | 11 18 | 11 7 | 22 19 | 22 26 | 20 11 | 16 3 | 6 12 |
| S 30 | 18 26 | 16 10 | 1 56 | 18 13 | 1 47 | 20 29 | 2 44 | 12 31 | 0 52 | 6 32 | 1 18 | 13 38 | 1 24 | 6 8 | 0 37 | 20 40 | 1 33 | 11 18 | 11 8 | 22 19 | 22 27 | 20 12 | 16 2 | 6 12 |
| S 31 | 18n11 | 11s14 | 3n 1 | 17n37 | 1n46 | 20n35 | 2s42 | 12s44 | 0s52 | 6s34 | 1s19 | 13s40 | 1s24 | 6s 9 | 0n37 | 20s40 | 1n33 | 11n18 | 11s 8 | 22s19 | 22s27 | 20s14 | 16n 1 | 6s13 |

ASTRODIENST EPHEMERIS for the year 2140
geocentric

AUGUST 2140

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|--------|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|-------|-------|------|
| M 1 | 20 40 2 | 9♏13'32 | 5♊55 | 18♏19 | 24♏57 | 1♏49 | 16♏19 | 27♏24 | 17♏9 | 11♏53 | 13♏0 | 17♏7 | 16♏4 | 13♏37 | 18♏26 | M 1 |
| T 2 | 20 43 58 | 10°10'54 | 19°49 | 20°15 | 26° 1 | 2°22 | 16♏14 | 27♏20 | 17°11 | 11♏52 | 13° 1 | 17♏4 | 16° 1 | 13°44 | 18°32 | T 2 |
| W 3 | 20 47 55 | 11° 8'17 | 3♏52 | 22° 9 | 27° 5 | 2°55 | 16° 9 | 27°16 | 17°13 | 11°52 | 13° 2 | 17° 0 | 15°57 | 13°50 | 18°38 | W 3 |
| T 4 | 20 51 52 | 12° 5'41 | 18° 2 | 24° 2 | 28°10 | 3°29 | 16° 4 | 27°11 | 17°15 | 11°51 | 13° 2 | 16°58 | 15°54 | 13°57 | 18°44 | T 4 |
| F 5 | 20 55 48 | 13° 3'06 | 2♏15 | 25°54 | 29°15 | 4° 2 | 15°59 | 27° 7 | 17°17 | 11°51 | 13° 3 | 16°56 | 15°51 | 14° 4 | 18°50 | F 5 |
| S 6 | 20 59 45 | 14° 0'32 | 16°29 | 27°43 | 0♏20 | 4°36 | 15°53 | 27° 3 | 17°19 | 11°50 | 13° 4 | 16°D56 | 15°48 | 14°10 | 18°56 | S 6 |
| S 7 | 21 3 41 | 14°58'00 | 0♏40 | 29°31 | 1°25 | 5°10 | 15°48 | 26°58 | 17°21 | 11°49 | 13° 5 | 16°57 | 15°45 | 14°17 | 19° 2 | S 7 |
| M 8 | 21 7 38 | 15°55'29 | 14°47 | 1♏18 | 2°30 | 5°44 | 15°42 | 26°54 | 17°24 | 11°49 | 13° 5 | 16°58 | 15°42 | 14°24 | 19° 8 | M 8 |
| T 9 | 21 11 34 | 16°52'59 | 28°49 | 3° 3 | 3°36 | 6°19 | 15°36 | 26°50 | 17°26 | 11°48 | 13° 6 | 17° 0 | 15°38 | 14°30 | 19°14 | T 9 |
| W10 | 21 15 31 | 17°50'30 | 12♏43 | 4°46 | 4°42 | 6°53 | 15°30 | 26°45 | 17°28 | 11°48 | 13° 7 | 17°R 0 | 15°35 | 14°37 | 19°19 | W10 |
| T 11 | 21 19 27 | 18°48'03 | 26°27 | 6°28 | 5°48 | 7°28 | 15°24 | 26°41 | 17°31 | 11°48 | 13° 8 | 17° 0 | 15°32 | 14°44 | 19°25 | T 11 |
| F 12 | 21 23 24 | 19°45'37 | 9♏59 | 8° 8 | 6°54 | 8° 3 | 15°17 | 26°36 | 17°33 | 11°47 | 13° 8 | 16°58 | 15°29 | 14°51 | 19°31 | F 12 |
| S 13 | 21 27 21 | 20°43'12 | 23°18 | 9°47 | 8° 0 | 8°38 | 15°11 | 26°32 | 17°35 | 11°47 | 13° 9 | 16°55 | 15°26 | 14°57 | 19°37 | S 13 |
| S 14 | 21 31 17 | 21°40'48 | 6♏22 | 11°24 | 9° 7 | 9°14 | 15° 4 | 26°27 | 17°38 | 11°47 | 13° 9 | 16°50 | 15°22 | 15° 4 | 19°42 | S 14 |
| M15 | 21 35 14 | 22°38'25 | 19° 9 | 13° 0 | 10°14 | 9°49 | 14°58 | 26°23 | 17°40 | 11°46 | 13°10 | 16°44 | 15°19 | 15°11 | 19°48 | M15 |
| T 16 | 21 39 10 | 23°36'03 | 1♏41 | 14°34 | 11°20 | 10°25 | 14°51 | 26°18 | 17°43 | 11°46 | 13°11 | 16°38 | 15°16 | 15°17 | 19°54 | T 16 |
| W17 | 21 43 7 | 24°33'42 | 13°59 | 16° 6 | 12°27 | 11° 1 | 14°44 | 26°14 | 17°45 | 11°46 | 13°11 | 16°32 | 15°13 | 15°24 | 19°59 | W17 |
| T 18 | 21 47 3 | 25°31'22 | 26° 5 | 17°37 | 13°35 | 11°37 | 14°37 | 26° 9 | 17°48 | 11°46 | 13°12 | 16°27 | 15°10 | 15°31 | 20° 5 | T 18 |
| F 19 | 21 51 0 | 26°29'04 | 8♏1 | 19° 6 | 14°42 | 12°13 | 14°30 | 26° 5 | 17°51 | 11°46 | 13°12 | 16°23 | 15° 7 | 15°38 | 20°10 | F 19 |
| S 20 | 21 54 56 | 27°26'46 | 19°53 | 20°34 | 15°49 | 12°49 | 14°23 | 26° 0 | 17°53 | 11°45 | 13°13 | 16°22 | 15° 3 | 15°44 | 20°16 | S 20 |
| S 21 | 21 58 53 | 28°24'29 | 1♏46 | 22° 1 | 16°57 | 13°26 | 14°15 | 25°56 | 17°56 | 11°45 | 13°13 | 16°D21 | 15° 0 | 15°51 | 20°21 | S 21 |
| M22 | 22 2 50 | 29°22'14 | 13°43 | 23°25 | 18° 5 | 14° 2 | 14° 8 | 25°51 | 17°59 | 11°45 | 13°14 | 16°22 | 14°57 | 15°58 | 20°27 | M22 |
| T 23 | 22 6 46 | 0♏20'00 | 25°50 | 24°48 | 19°13 | 14°39 | 14° 1 | 25°47 | 18° 2 | 11°D45 | 13°14 | 16°24 | 14°54 | 16° 4 | 20°32 | T 23 |
| W24 | 22 10 43 | 1°17'47 | 8♏11 | 26°10 | 20°21 | 15°16 | 13°53 | 25°42 | 18° 5 | 11°45 | 13°14 | 16°25 | 14°51 | 16°11 | 20°37 | W24 |
| T 25 | 22 14 39 | 2°15'35 | 20°52 | 27°29 | 21°29 | 15°53 | 13°46 | 25°38 | 18° 8 | 11°45 | 13°15 | 16°R25 | 14°48 | 16°18 | 20°43 | T 25 |
| F 26 | 22 18 36 | 3°13'24 | 3♏54 | 28°47 | 22°37 | 16°30 | 13°38 | 25°34 | 18°10 | 11°45 | 13°15 | 16°24 | 14°44 | 16°24 | 20°48 | F 26 |
| S 27 | 22 22 32 | 4°11'14 | 17°19 | 0♏4 | 23°46 | 17° 8 | 13°30 | 25°29 | 18°13 | 11°45 | 13°16 | 16°20 | 14°41 | 16°31 | 20°53 | S 27 |
| S 28 | 22 26 29 | 5° 9'06 | 1♏7 | 1°18 | 24°54 | 17°45 | 13°22 | 25°25 | 18°16 | 11°46 | 13°16 | 16°15 | 14°38 | 16°38 | 20°58 | S 28 |
| M29 | 22 30 25 | 6° 6'59 | 15°14 | 2°30 | 26° 3 | 18°23 | 13°15 | 25°20 | 18°19 | 11°46 | 13°16 | 16° 8 | 14°35 | 16°45 | 21° 3 | M29 |
| T 30 | 22 34 22 | 7° 4'54 | 29°36 | 3°41 | 27°12 | 19° 1 | 13° 7 | 25°16 | 18°22 | 11°46 | 13°17 | 16° 0 | 14°32 | 16°51 | 21° 8 | T 30 |
| W31 | 22 38 19 | 8♏25'1 | 14°V 6 | 4♏49 | 28♏21 | 19♏39 | 12♏59 | 25♏12 | 18♏26 | 11♏46 | 13♏17 | 15♏52 | 14♏28 | 16♏58 | 21♏13 | W31 |

| Day | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | decl | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat |
| M 1 | 17n56 | 5s40 | 3n57 | 16n59 | 1n45 | 20n41 | 2s39 | 12s56 | 0s53 | 6s36 | 1s19 | 13s41 | 1s24 | 6s10 | 0n37 | 20s40 |
| T 2 | 17 41 | 0n15 | 4 39 | 16 21 | 1 43 | 20 46 | 2 36 | 13 8 | 0 54 | 6 38 | 1 19 | 13 43 | 1 24 | 6 10 | 0 37 | 20 40 |
| W 3 | 17 25 | 6 13 | 5 6 | 15 42 | 1 40 | 20 51 | 2 33 | 13 20 | 0 55 | 6 41 | 1 19 | 13 44 | 1 25 | 6 11 | 0 37 | 20 40 |
| T 4 | 17 9 | 11 54 | 5 14 | 15 1 | 1 37 | 20 55 | 2 29 | 13 32 | 0 56 | 6 43 | 1 20 | 13 46 | 1 25 | 6 12 | 0 37 | 20 40 |
| F 5 | 16 53 | 16 59 | 5 3 | 14 21 | 1 33 | 20 59 | 2 26 | 13 45 | 0 57 | 6 45 | 1 20 | 13 47 | 1 25 | 6 13 | 0 37 | 20 40 |
| S 6 | 16 37 | 21 7 | 4 33 | 13 39 | 1 29 | 21 2 | 2 23 | 13 57 | 0 57 | 6 47 | 1 20 | 13 49 | 1 25 | 6 14 | 0 37 | 20 40 |
| S 7 | 16 20 | 23 58 | 3 47 | 12 57 | 1 25 | 21 5 | 2 20 | 14 9 | 0 58 | 6 50 | 1 20 | 13 51 | 1 25 | 6 14 | 0 37 | 20 40 |
| M 8 | 16 3 | 25 20 | 2 47 | 12 15 | 1 20 | 21 7 | 2 17 | 14 21 | 0 59 | 6 52 | 1 21 | 13 52 | 1 25 | 6 15 | 0 37 | 20 40 |
| T 9 | 15 46 | 25 3 | 1 38 | 11 32 | 1 14 | 21 9 | 2 13 | 14 33 | 1 0 | 6 55 | 1 21 | 13 54 | 1 25 | 6 16 | 0 37 | 20 40 |
| W10 | 15 28 | 23 10 | 0 23 | 10 49 | 1 9 | 21 11 | 2 10 | 14 45 | 1 0 | 6 57 | 1 21 | 13 55 | 1 25 | 6 17 | 0 37 | 20 40 |
| T 11 | 15 11 | 20 0 | 0s51 | 10 6 | 1 2 | 21 12 | 2 6 | 14 57 | 1 1 | 7 0 | 1 21 | 13 57 | 1 25 | 6 18 | 0 37 | 20 40 |
| F 12 | 14 53 | 15 46 | 2 2 | 9 23 | 0 56 | 21 12 | 2 3 | 15 9 | 1 2 | 7 3 | 1 21 | 13 59 | 1 26 | 6 19 | 0 37 | 20 40 |
| S 13 | 14 35 | 10 50 | 3 5 | 8 39 | 0 49 | 21 12 | 1 59 | 15 21 | 1 3 | 7 5 | 1 22 | 14 0 | 1 26 | 6 20 | 0 37 | 20 40 |
| S 14 | 14 16 | 5 30 | 3 57 | 7 56 | 0 42 | 21 11 | 1 56 | 15 33 | 1 3 | 7 8 | 1 22 | 14 2 | 1 26 | 6 21 | 0 37 | 20 40 |
| M15 | 13 57 | 0 4 | 4 35 | 7 13 | 0 35 | 21 10 | 1 52 | 15 45 | 1 4 | 7 11 | 1 22 | 14 4 | 1 26 | 6 22 | 0 37 | 20 40 |
| T 16 | 13 39 | 5s15 | 5 0 | 6 30 | 0 27 | 21 8 | 1 48 | 15 57 | 1 5 | 7 14 | 1 22 | 14 5 | 1 26 | 6 23 | 0 37 | 20 40 |
| W17 | 13 20 | 10 16 | 5 10 | 5 46 | 0 19 | 21 6 | 1 45 | 16 9 | 1 5 | 7 16 | 1 22 | 14 7 | 1 26 | 6 24 | 0 37 | 20 40 |
| T 18 | 13 0 | 14 48 | 5 6 | 5 4 | 0 11 | 21 3 | 1 41 | 16 21 | 1 6 | 7 19 | 1 23 | 14 8 | 1 26 | 6 25 | 0 37 | 20 40 |
| F 19 | 12 41 | 18 43 | 4 48 | 4 21 | 0 3 | 21 0 | 1 37 | 16 33 | 1 7 | 7 22 | 1 23 | 14 10 | 1 26 | 6 26 | 0 37 | 20 40 |
| S 20 | 12 21 | 21 51 | 4 19 | 3 39 | 0s 5 | 20 56 | 1 34 | 16 44 | 1 7 | 7 25 | 1 23 | 14 12 | 1 26 | 6 27 | 0 36 | 20 40 |
| S 21 | 12 1 | 24 4 | 3 38 | 2 57 | 0 14 | 20 52 | 1 30 | 16 56 | 1 8 | 7 28 | 1 23 | 14 13 | 1 26 | 6 28 | 0 36 | 20 40 |
| M22 | 11 41 | 25 12 | 2 48 | 2 16 | 0 23 | 20 47 | 1 26 | 17 8 | 1 8 | 7 31 | 1 23 | 14 15 | 1 26 | 6 29 | 0 36 | 20 40 |
| T 23 | 11 21 | 25 10 | 1 49 | 1 35 | 0 32 | 20 41 | 1 22 | 17 19 | 1 9 | 7 34 | 1 23 | 14 16 | 1 26 | 6 30 | 0 36 | 20 40 |
| W24 | 11 0 | 23 54 | 0 44 | 0 54 | 0 41 | 20 35 | 1 19 | 17 31 | 1 10 | 7 37 | 1 24 | 14 18 | 1 26 | 6 31 | 0 36 | 20 40 |
| T 25 | 10 40 | 21 25 | 0n24 | 0 14 | 0 50 | 20 29 | 1 15 | 17 42 | 1 10 | 7 40 | 1 24 | 14 19 | 1 27 | 6 33 | 0 36 | 20 40 |
| F 26 | 10 19 | 17 45 | 1 33 | 0s25 | 0 59 | 20 22 | 1 11 | 17 53 | 1 11 | 7 43 | 1 24 | 14 21 | 1 27 | 6 34 | 0 36 | 20 40 |
| S 27 | 9 58 | 13 7 | 2 39 | 1 4 | 1 8 | 20 14 | 1 7 | 18 5 | 1 11 | 7 46 | 1 24 | 14 23 | 1 27 | 6 35 | 0 36 | 20 40 |
| S 28 | 9 37 | 7 41 | 3 37 | 1 42 | 1 18 | 20 6 | 1 3 | 18 16 | 1 12 | 7 49 | 1 24 | 14 24 | 1 27 | 6 36 | 0 36 | 20 40 |
| M29 | 9 16 | 1 46 | 4 23 | 2 20 | 1 27 | 19 57 | 1 0 | 18 27 | 1 12 | 7 53 | 1 24 | 14 26 | 1 27 | 6 37 | 0 36 | 20 40 |
| T 30 | 8 54 | 4n20 | 4 54 | 2 56 | 1 36 | 19 48 | 0 56 | 18 38 | 1 13 | 7 56 | 1 24 | 14 27 | 1 27 | 6 38 | 0 36 | 20 40 |
| W31 | 8n33 | 10n15 | 5n 6 | 3s32 | 1s46 | 19n38 | 0s52 | 18s49 | 1s13 | 7s59 | 1s24 | 14s29 | 1s27 | 6s40 | 0n36 | 20s40 |

Julian Day Number = 2502891.5, Delta T = 115.43 sec
Ecliptic obliquity = 23°25'18, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 26°42'17, Lahiri = 25°49'17

ASTRODIENST EPHEMERIS for the year 2140

geocentric

SEPTEMBER 2140

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------------------|------------------------|---------------------|---------------------|---------------------|------|
| T 1 | 22 42 15 | 9 ^h 04'9" | 28 ^h 39' | 5 ^h 55' | 29 ^h 30' | 20 ^h 17' | 12 ^h 51' | 25 ^h 07' | 18 ^h 29' | 11 ^h 46' | 13 ^h 17' | 15 ^h 04' | 14 ^h 25' | 17 ^h 11' | 21 ^h 18' | T 1 |
| F 2 | 22 46 12 | 9 ^h 58'49" | 13 ^h 08' | 6 ^h 59' | 0 ^h 40' | 20 ^h 55' | 12 ^h 43' | 25 ^h 03' | 18 ^h 32' | 11 ^h 47' | 13 ^h 17' | 15 ^h 34' | 14 ^h 22' | 17 ^h 11' | 21 ^h 23' | F 2 |
| S 3 | 22 50 8 | 10 ^h 56'51" | 27 ^h 29' | 8 ^h 1' | 1 ^h 49' | 21 ^h 34' | 12 ^h 35' | 24 ^h 59' | 18 ^h 35' | 11 ^h 47' | 13 ^h 17' | 15 ^h 37' | 14 ^h 19' | 17 ^h 18' | 21 ^h 28' | S 3 |
| S 4 | 22 54 5 | 11 ^h 54'56" | 11 ^h 38' | 9 ^h 0' | 2 ^h 59' | 22 ^h 12' | 12 ^h 27' | 24 ^h 55' | 18 ^h 38' | 11 ^h 47' | 13 ^h 18' | 15 ^h 03'37" | 14 ^h 16' | 17 ^h 25' | 21 ^h 33' | S 4 |
| M 5 | 22 58 1 | 12 ^h 53'02" | 25 ^h 35' | 9 ^h 56' | 4 ^h 8' | 22 ^h 51' | 12 ^h 19' | 24 ^h 50' | 18 ^h 41' | 11 ^h 48' | 13 ^h 18' | 15 ^h 37' | 14 ^h 13' | 17 ^h 31' | 21 ^h 38' | M 5 |
| T 6 | 23 1 58 | 13 ^h 51'10" | 9 ^h 59' | 10 ^h 50' | 5 ^h 18' | 23 ^h 30' | 12 ^h 11' | 24 ^h 46' | 18 ^h 45' | 11 ^h 48' | 13 ^h 18' | 15 ^h 03'38" | 14 ^h 9' | 17 ^h 38' | 21 ^h 42' | T 6 |
| W 7 | 23 5 54 | 14 ^h 49'20" | 22 ^h 51' | 11 ^h 40' | 6 ^h 28' | 24 ^h 9' | 12 ^h 4' | 24 ^h 42' | 18 ^h 48' | 11 ^h 49' | 13 ^h 18' | 15 ^h 38' | 14 ^h 6' | 17 ^h 45' | 21 ^h 47' | W 7 |
| T 8 | 23 9 51 | 15 ^h 47'32" | 6 ^h 01' | 12 ^h 28' | 7 ^h 38' | 24 ^h 48' | 11 ^h 56' | 24 ^h 38' | 18 ^h 51' | 11 ^h 49' | 13 ^h 18' | 15 ^h 36' | 14 ^h 3' | 17 ^h 52' | 21 ^h 51' | T 8 |
| F 9 | 23 13 48 | 16 ^h 45'46" | 19 ^h 20' | 13 ^h 12' | 8 ^h 48' | 25 ^h 27' | 11 ^h 48' | 24 ^h 34' | 18 ^h 55' | 11 ^h 50' | 13 ^h 18' | 15 ^h 31' | 14 ^h 0' | 17 ^h 58' | 21 ^h 56' | F 9 |
| S 10 | 23 17 44 | 17 ^h 44'01" | 2 ^h 18' | 13 ^h 52' | 9 ^h 59' | 26 ^h 6' | 11 ^h 40' | 24 ^h 30' | 18 ^h 58' | 11 ^h 50' | 13 ^h 18' | 15 ^h 24' | 13 ^h 57' | 18 ^h 5' | 22 ^h 0' | S 10 |
| S 11 | 23 21 41 | 18 ^h 42'19" | 15 ^h 4' | 14 ^h 28' | 11 ^h 9' | 26 ^h 46' | 11 ^h 32' | 24 ^h 26' | 19 ^h 1' | 11 ^h 51' | 13 ^h 18' | 15 ^h 15' | 13 ^h 54' | 18 ^h 12' | 22 ^h 5' | S 11 |
| M12 | 23 25 37 | 19 ^h 40'38" | 27 ^h 38' | 15 ^h 0' | 12 ^h 19' | 27 ^h 25' | 11 ^h 24' | 24 ^h 22' | 19 ^h 5' | 11 ^h 52' | 13 ^h 01'18" | 15 ^h 4' | 13 ^h 50' | 18 ^h 18' | 22 ^h 9' | M12 |
| T 13 | 23 29 34 | 20 ^h 38'59" | 10 ^h 0' | 15 ^h 28' | 13 ^h 30' | 28 ^h 5' | 11 ^h 16' | 24 ^h 19' | 19 ^h 8' | 11 ^h 52' | 13 ^h 18' | 14 ^h 52' | 13 ^h 47' | 18 ^h 25' | 22 ^h 13' | T 13 |
| W14 | 23 33 30 | 21 ^h 37'21" | 22 ^h 11' | 15 ^h 50' | 14 ^h 41' | 28 ^h 45' | 11 ^h 9' | 24 ^h 15' | 19 ^h 12' | 11 ^h 53' | 13 ^h 18' | 14 ^h 40' | 13 ^h 44' | 18 ^h 32' | 22 ^h 18' | W14 |
| T 15 | 23 37 27 | 22 ^h 35'46" | 4 ^h 11' | 16 ^h 8' | 15 ^h 51' | 29 ^h 25' | 11 ^h 1' | 24 ^h 11' | 19 ^h 15' | 11 ^h 54' | 13 ^h 18' | 14 ^h 30' | 13 ^h 41' | 18 ^h 38' | 22 ^h 22' | T 15 |
| F 16 | 23 41 23 | 23 ^h 34'12" | 16 ^h 6' | 16 ^h 20' | 17 ^h 2' | 0 ^h 45' | 10 ^h 54' | 24 ^h 7' | 19 ^h 18' | 11 ^h 54' | 13 ^h 18' | 14 ^h 21' | 13 ^h 38' | 18 ^h 45' | 22 ^h 26' | F 16 |
| S 17 | 23 45 20 | 24 ^h 32'40" | 27 ^h 56' | 16 ^h 26' | 18 ^h 13' | 0 ^h 45' | 10 ^h 46' | 24 ^h 4' | 19 ^h 22' | 11 ^h 55' | 13 ^h 18' | 14 ^h 16' | 13 ^h 34' | 18 ^h 52' | 22 ^h 30' | S 17 |
| S 18 | 23 49 16 | 25 ^h 31'09" | 9 ^h 46' | 16 ^h 26' | 19 ^h 24' | 1 ^h 26' | 10 ^h 39' | 24 ^h 0' | 19 ^h 25' | 11 ^h 56' | 13 ^h 18' | 14 ^h 12' | 13 ^h 31' | 18 ^h 59' | 22 ^h 34' | S 18 |
| M19 | 23 53 13 | 26 ^h 29'40" | 21 ^h 40' | 16 ^h 20' | 20 ^h 36' | 2 ^h 6' | 10 ^h 31' | 23 ^h 57' | 19 ^h 29' | 11 ^h 57' | 13 ^h 18' | 14 ^h 01'11" | 13 ^h 28' | 19 ^h 5' | 22 ^h 38' | M19 |
| T 20 | 23 57 10 | 27 ^h 28'13" | 3 ^h 45' | 16 ^h 7' | 21 ^h 47' | 2 ^h 47' | 10 ^h 24' | 23 ^h 54' | 19 ^h 33' | 11 ^h 58' | 13 ^h 18' | 14 ^h 11' | 13 ^h 25' | 19 ^h 12' | 22 ^h 41' | T 20 |
| W21 | 0 1 6 | 28 ^h 26'47" | 16 ^h 5' | 15 ^h 46' | 22 ^h 58' | 3 ^h 28' | 10 ^h 17' | 23 ^h 50' | 19 ^h 36' | 11 ^h 59' | 13 ^h 18' | 14 ^h 01'11" | 13 ^h 22' | 19 ^h 19' | 22 ^h 45' | W21 |
| T 22 | 0 5 3 | 29 ^h 25'23" | 28 ^h 45' | 15 ^h 19' | 24 ^h 10' | 4 ^h 8' | 10 ^h 10' | 23 ^h 47' | 19 ^h 40' | 12 ^h 0' | 13 ^h 17' | 14 ^h 11' | 13 ^h 19' | 19 ^h 25' | 22 ^h 49' | T 22 |
| F 23 | 0 8 59 | 0 ^h 24'01" | 11 ^h 50' | 14 ^h 45' | 25 ^h 21' | 4 ^h 49' | 10 ^h 3' | 23 ^h 44' | 19 ^h 43' | 12 ^h 0' | 13 ^h 17' | 14 ^h 8' | 13 ^h 15' | 19 ^h 32' | 22 ^h 52' | F 23 |
| S 24 | 0 12 56 | 1 ^h 22'40" | 25 ^h 22' | 14 ^h 4' | 26 ^h 33' | 5 ^h 30' | 9 ^h 56' | 23 ^h 41' | 19 ^h 47' | 12 ^h 1' | 13 ^h 17' | 14 ^h 3' | 13 ^h 12' | 19 ^h 39' | 22 ^h 56' | S 24 |
| S 25 | 0 16 52 | 2 ^h 21'21" | 9 ^h 42' | 13 ^h 16' | 27 ^h 45' | 6 ^h 11' | 9 ^h 49' | 23 ^h 38' | 19 ^h 51' | 12 ^h 3' | 13 ^h 17' | 13 ^h 55' | 13 ^h 9' | 19 ^h 45' | 22 ^h 59' | S 25 |
| M26 | 0 20 49 | 3 ^h 20'04" | 23 ^h 27' | 12 ^h 23' | 28 ^h 57' | 6 ^h 53' | 9 ^h 42' | 23 ^h 35' | 19 ^h 54' | 12 ^h 4' | 13 ^h 16' | 13 ^h 45' | 13 ^h 6' | 19 ^h 52' | 23 ^h 3' | M26 |
| T 27 | 0 24 45 | 4 ^h 18'49" | 8 ^h 32' | 11 ^h 24' | 0 ^h 11' | 7 ^h 34' | 9 ^h 36' | 23 ^h 32' | 19 ^h 58' | 12 ^h 5' | 13 ^h 16' | 13 ^h 34' | 13 ^h 3' | 19 ^h 59' | 23 ^h 6' | T 27 |
| W28 | 0 28 42 | 5 ^h 17'35" | 23 ^h 28' | 10 ^h 21' | 1 ^h 20' | 8 ^h 16' | 9 ^h 29' | 23 ^h 29' | 20 ^h 2' | 12 ^h 6' | 13 ^h 16' | 13 ^h 23' | 12 ^h 59' | 20 ^h 5' | 23 ^h 9' | W28 |
| T 29 | 0 32 39 | 6 ^h 16'24" | 8 ^h 26' | 9 ^h 15' | 2 ^h 33' | 8 ^h 57' | 9 ^h 23' | 23 ^h 26' | 20 ^h 5' | 12 ^h 7' | 13 ^h 15' | 13 ^h 13' | 12 ^h 56' | 20 ^h 12' | 23 ^h 13' | T 29 |
| F 30 | 0 36 35 | 7 ^h 15'15" | 23 ^h 17' | 8 ^h 48' | 3 ^h 45' | 9 ^h 43' | 9 ^h 17' | 23 ^h 24' | 20 ^h 9' | 12 ^h 8' | 13 ^h 15' | 13 ^h 5' | 12 ^h 53' | 20 ^h 19' | 23 ^h 16' | F 30 |

| Day | ☉ | ☽ | ♂ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|------|-------|------|------|------|-------|------|-------|------|------|------|-------|------|------|------|-------|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | lat |
| T 1 | 8n11 | 15n38 | 4n58 | 4s 7 | 1s55 | 19n27 | 0s48 | 18s59 | 1s14 | 8s 2 | 1s24 | 14s30 | 1s27 | 6s41 | 0n36 | 20s41 |
| F 2 | 7 49 | 20 5 | 4 32 | 4 41 | 2 4 | 19 16 | 0 44 | 19 10 | 1 14 | 8 5 | 1 25 | 14 32 | 1 27 | 6 42 | 0 36 | 20 41 |
| S 3 | 7 27 | 23 17 | 3 49 | 5 13 | 2 14 | 19 5 | 0 41 | 19 21 | 1 15 | 8 8 | 1 25 | 14 33 | 1 27 | 6 43 | 0 36 | 20 41 |
| S 4 | 7 5 | 25 0 | 2 52 | 5 45 | 2 23 | 18 53 | 0 37 | 19 31 | 1 15 | 8 11 | 1 25 | 14 35 | 1 27 | 6 44 | 0 36 | 20 41 |
| M 5 | 6 43 | 25 6 | 1 45 | 6 16 | 2 32 | 18 40 | 0 33 | 19 42 | 1 16 | 8 14 | 1 25 | 14 36 | 1 27 | 6 46 | 0 36 | 20 41 |
| T 6 | 6 21 | 23 39 | 0 34 | 6 45 | 2 41 | 18 27 | 0 29 | 19 52 | 1 16 | 8 17 | 1 25 | 14 37 | 1 27 | 6 47 | 0 36 | 20 41 |
| W 7 | 5 58 | 20 51 | 0s39 | 7 13 | 2 49 | 18 14 | 0 26 | 20 2 | 1 17 | 8 21 | 1 25 | 14 39 | 1 27 | 6 48 | 0 36 | 20 41 |
| T 8 | 5 36 | 16 59 | 1 48 | 7 39 | 2 58 | 17 59 | 0 22 | 20 12 | 1 17 | 8 24 | 1 25 | 14 40 | 1 27 | 6 49 | 0 36 | 20 41 |
| F 9 | 5 13 | 12 19 | 2 50 | 8 4 | 3 6 | 17 45 | 0 19 | 20 22 | 1 18 | 8 27 | 1 25 | 14 41 | 1 27 | 6 51 | 0 36 | 20 41 |
| S 10 | 4 51 | 7 12 | 3 42 | 8 27 | 3 14 | 17 30 | 0 15 | 20 32 | 1 18 | 8 30 | 1 25 | 14 43 | 1 27 | 6 52 | 0 36 | 20 42 |
| S 11 | 4 28 | 1 51 | 4 22 | 8 48 | 3 22 | 17 14 | 0 11 | 20 41 | 1 18 | 8 33 | 1 25 | 14 44 | 1 27 | 6 53 | 0 36 | 20 42 |
| M12 | 4 5 | 3s28 | 4 49 | 9 7 | 3 29 | 16 58 | 0 8 | 20 51 | 1 19 | 8 36 | 1 25 | 14 45 | 1 27 | 6 55 | 0 36 | 20 42 |
| T 13 | 3 42 | 8 34 | 5 1 | 9 24 | 3 35 | 16 41 | 0 4 | 21 0 | 1 19 | 8 39 | 1 25 | 14 47 | 1 27 | 6 56 | 0 36 | 20 42 |
| W14 | 3 19 | 13 16 | 5 0 | 9 38 | 3 42 | 16 24 | 0 1 | 21 10 | 1 20 | 8 42 | 1 25 | 14 48 | 1 27 | 6 57 | 0 36 | 20 42 |
| T 15 | 2 56 | 17 23 | 4 45 | 9 50 | 3 47 | 16 7 | 0n 3 | 21 19 | 1 20 | 8 45 | 1 25 | 14 49 | 1 27 | 6 59 | 0 36 | 20 42 |
| F 16 | 2 33 | 20 45 | 4 18 | 9 59 | 3 52 | 15 49 | 0 6 | 21 28 | 1 20 | 8 47 | 1 25 | 14 50 | 1 27 | 7 0 | 0 36 | 20 42 |
| S 17 | 2 10 | 23 15 | 3 40 | 10 5 | 3 56 | 15 30 | 0 9 | 21 37 | 1 21 | 8 50 | 1 25 | 14 52 | 1 27 | 7 1 | 0 36 | 20 42 |
| S 18 | 1 47 | 24 44 | 2 52 | 10 8 | 3 59 | 15 11 | 0 13 | 21 45 | 1 21 | 8 53 | 1 25 | 14 53 | 1 27 | 7 3 | 0 36 | 20 43 |
| M19 | 1 24 | 25 6 | 1 57 | 10 7 | 4 1 | 14 52 | 0 16 | 21 54 | 1 21 | 8 56 | 1 25 | 14 54 | 1 27 | 7 4 | 0 36 | 20 43 |
| T 20 | 1 0 | 24 17 | 0 55 | 10 3 | 4 1 | 14 32 | 0 19 | 22 2 | 1 22 | 8 59 | 1 25 | 14 55 | 1 27 | 7 5 | 0 36 | 20 43 |
| W21 | 0 37 | 22 17 | 0n10 | 9 54 | 4 1 | 14 12 | 0 22 | 22 10 | 1 22 | 9 1 | 1 25 | 14 56 | 1 27 | 7 7 | 0 36 | 20 43 |
| T 22 | 0 14 | 19 9 | 1 16 | 9 42 | 3 59 | 13 52 | 0 26 | 22 18 | 1 22 | 9 4 | 1 25 | 14 57 | 1 27 | 7 8 | 0 36 | 20 43 |
| F 23 | 0s10 | 14 58 | 2 21 | 9 25 | 3 55 | 13 31 | 0 29 | 22 26 | 1 23 | 9 6 | 1 25 | 14 58 | 1 27 | 7 10 | 0 36 | 20 44 |
| S 24 | 0 33 | 9 55 | 3 20 | 9 4 | 3 50 | 13 9 | 0 32 | 22 34 | 1 23 | 9 9 | 1 25 | 14 59 | 1 27 | 7 11 | 0 36 | 20 44 |
| S 25 | 0 56 | 4 13 | 4 8 | 8 39 | 3 42 | 12 47 | 0 35 | 22 42 | 1 23 | 9 12 | 1 25 | 15 0 | 1 27 | 7 12 | 0 36 | 20 44 |
| M26 | 1 19 | 1n52 | 4 43 | 8 10 | 3 33 | 12 25 | 0 38 | 22 49 | 1 24 | 9 14 | 1 25 | 15 1 | 1 27 | 7 14 | 0 36 | 2 |

ASTRODIENST EPHEMERIS for the year 2140

geocentric

OCTOBER 2140

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|--------|-------|-------|--------|--------|-------|-------|-------|------|
| S 1 | 0 40 32 | 8♏14'09 | 7♏54 | 7°R 1 | 4♏57 | 10♏21 | 9°R11 | 23°R21 | 20♏13 | 12♏9 | 13°R15 | 13°R 1 | 12♏50 | 20♏26 | 23♏19 | S 1 |
| S 2 | 0 44 28 | 9°13'04 | 22°13 | 5♏57 | 6° 9 | 11° 2 | 9♏5 | 23♏19 | 20°17 | 12°11 | 13♏14 | 12♏58 | 12°47 | 20°32 | 23°22 | S 2 |
| M 3 | 0 48 25 | 10°12'02 | 6♏11 | 4°56 | 7°22 | 11°44 | 8°59 | 23°17 | 20°20 | 12°12 | 13°14 | 12°58 | 12°44 | 20°39 | 23°24 | M 3 |
| T 4 | 0 52 21 | 11°11'03 | 19°50 | 4° 0 | 8°34 | 12°26 | 8°54 | 23°14 | 20°24 | 12°13 | 13°13 | 12°58 | 12°40 | 20°46 | 23°27 | T 4 |
| W 5 | 0 56 18 | 12°10'05 | 3♏10 | 3°12 | 9°47 | 13° 9 | 8°48 | 23°12 | 20°28 | 12°14 | 13°13 | 12°57 | 12°37 | 20°52 | 23°30 | W 5 |
| T 6 | 1 0 14 | 13° 9'10 | 16°15 | 2°32 | 11° 0 | 13°51 | 8°43 | 23°10 | 20°32 | 12°16 | 13°13 | 12°54 | 12°34 | 20°59 | 23°33 | T 6 |
| F 7 | 1 4 11 | 14° 8'17 | 29° 5 | 2° 1 | 12°12 | 14°33 | 8°38 | 23° 8 | 20°35 | 12°17 | 13°12 | 12°48 | 12°31 | 21° 6 | 23°35 | F 7 |
| S 8 | 1 8 8 | 15° 7'26 | 11♏44 | 1°40 | 13°25 | 15°16 | 8°33 | 23° 6 | 20°39 | 12°18 | 13°11 | 12°40 | 12°28 | 21°12 | 23°38 | S 8 |
| S 9 | 1 12 4 | 16° 6'38 | 24°13 | 1°D30 | 14°38 | 15°58 | 8°28 | 23° 4 | 20°43 | 12°20 | 13°11 | 12°29 | 12°25 | 21°19 | 23°40 | S 9 |
| M10 | 1 16 1 | 17° 5'51 | 6♏32 | 1°31 | 15°51 | 16°41 | 8°24 | 23° 2 | 20°47 | 12°21 | 13°10 | 12°15 | 12°21 | 21°26 | 23°42 | M10 |
| T 11 | 1 19 57 | 18° 5'07 | 18°43 | 1°42 | 17° 4 | 17°24 | 8°19 | 23° 1 | 20°50 | 12°23 | 13°10 | 12° 1 | 12°18 | 21°32 | 23°44 | T 11 |
| W12 | 1 23 54 | 19° 4'25 | 0♏45 | 2° 3 | 18°17 | 18° 7 | 8°15 | 22°59 | 20°54 | 12°24 | 13° 9 | 11°47 | 12°15 | 21°39 | 23°46 | W12 |
| T 13 | 1 27 50 | 20° 3'44 | 12°41 | 2°35 | 19°30 | 18°50 | 8°11 | 22°58 | 20°58 | 12°26 | 13° 9 | 11°34 | 12°12 | 21°46 | 23°49 | T 13 |
| F 14 | 1 31 47 | 21° 3'06 | 24°32 | 3°15 | 20°44 | 19°33 | 8° 7 | 22°56 | 21° 2 | 12°27 | 13° 8 | 11°24 | 12° 9 | 21°53 | 23°50 | F 14 |
| S 15 | 1 35 43 | 22° 2'30 | 6♏20 | 4° 4 | 21°57 | 20°16 | 8° 3 | 22°55 | 21° 6 | 12°29 | 13° 7 | 11°16 | 12° 5 | 21°59 | 23°52 | S 15 |
| S 16 | 1 39 40 | 23° 1'55 | 18° 8 | 5° 1 | 23°10 | 20°59 | 8° 0 | 22°54 | 21° 9 | 12°31 | 13° 7 | 11°12 | 12° 2 | 22° 6 | 23°54 | S 16 |
| M17 | 1 43 37 | 24° 1'22 | 0♏3 | 6° 5 | 24°24 | 21°43 | 7°56 | 22°53 | 21°13 | 12°32 | 13° 6 | 11°10 | 11°59 | 22°13 | 23°56 | M17 |
| T 18 | 1 47 33 | 25° 0'51 | 12° 3 | 7°15 | 25°37 | 22°26 | 7°53 | 22°52 | 21°17 | 12°34 | 13° 5 | 11°D 9 | 11°56 | 22°19 | 23°57 | T 18 |
| W19 | 1 51 30 | 26° 0'22 | 24°19 | 8°30 | 26°51 | 23° 9 | 7°50 | 22°51 | 21°21 | 12°36 | 13° 5 | 11°R 9 | 11°53 | 22°26 | 23°59 | W19 |
| T 20 | 1 55 26 | 26°59'55 | 6♏55 | 9°50 | 28° 5 | 23°53 | 7°48 | 22°50 | 21°24 | 12°37 | 13° 4 | 11° 9 | 11°50 | 22°33 | 24° 0 | T 20 |
| F 21 | 1 59 23 | 27°59'29 | 19°55 | 11°14 | 29°18 | 24°37 | 7°45 | 22°50 | 21°28 | 12°39 | 13° 3 | 11° 7 | 11°46 | 22°39 | 24° 2 | F 21 |
| S 22 | 2 3 19 | 28°59'05 | 3♏24 | 12°42 | 0♏32 | 25°20 | 7°43 | 22°49 | 21°32 | 12°41 | 13° 2 | 11° 3 | 11°43 | 22°46 | 24° 3 | S 22 |
| S 23 | 2 7 16 | 29°58'42 | 17°23 | 14°12 | 1°46 | 26° 4 | 7°40 | 22°49 | 21°36 | 12°42 | 13° 2 | 10°56 | 11°40 | 22°53 | 24° 4 | S 23 |
| M24 | 2 11 12 | 0♏58'22 | 1°Y52 | 15°45 | 2°59 | 26°48 | 7°38 | 22°48 | 21°39 | 12°44 | 13° 1 | 10°47 | 11°37 | 22°59 | 24° 5 | M24 |
| T 25 | 2 15 9 | 1°58'03 | 16°45 | 17°19 | 4°13 | 27°32 | 7°37 | 22°48 | 21°43 | 12°46 | 13° 0 | 10°37 | 11°34 | 23° 6 | 24° 6 | T 25 |
| W26 | 2 19 5 | 2°57'46 | 1♏54 | 18°55 | 5°27 | 28°16 | 7°35 | 22°48 | 21°47 | 12°48 | 12°59 | 10°27 | 11°30 | 23°13 | 24° 7 | W26 |
| T 27 | 2 23 2 | 3°57'31 | 17°10 | 20°32 | 6°41 | 29° 0 | 7°34 | 22°D48 | 21°51 | 12°50 | 12°58 | 10°17 | 11°27 | 23°20 | 24° 8 | T 27 |
| F 28 | 2 26 59 | 4°57'18 | 2♏21 | 22°11 | 7°55 | 29°45 | 7°33 | 22°48 | 21°54 | 12°52 | 12°57 | 10°10 | 11°24 | 23°26 | 24° 8 | F 28 |
| S 29 | 2 30 55 | 5°57'08 | 17°18 | 23°49 | 9° 9 | 0♏29 | 7°32 | 22°48 | 21°58 | 12°53 | 12°57 | 10° 6 | 11°21 | 23°33 | 24° 9 | S 29 |
| S 30 | 2 34 52 | 6°56'59 | 1♏53 | 25°29 | 10°24 | 1°13 | 7°31 | 22°48 | 22° 2 | 12°55 | 12°56 | 10° 4 | 11°18 | 23°40 | 24° 9 | S 30 |
| M31 | 2 38 48 | 7♏56'53 | 16♏3 | 27♏8 | 11♏38 | 1♏58 | 7♏30 | 22°49 | 22°6 | 12°57 | 12°55 | 10°D 4 | 11♏15 | 23♏46 | 24♏10 | M31 |

| Day | ☉ | ☽ | ♂ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|-------|-------|------|------|------|-------|------|-------|------|------|------|-------|------|------|------|-------|------|-------|-------|-------|-------|-------|-------|------|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 3s16 | 24n28 | 2n54 | 4s56 | 2s21 | 10n29 | 0n51 | 23s23 | 1s25 | 9s25 | 1s24 | 15s 5 | 1s27 | 7s21 | 0n36 | 20s45 | 1n30 | 11n 8 | 11s20 | 22s47 | 22s48 | 21s46 | 14n51 | 6s39 |
| S 2 | 3 39 | 24 59 | 1 47 | 4 13 | 2 2 | 10 5 | 0 54 | 23 29 | 1 25 | 9 28 | 1 24 | 15 6 | 1 27 | 7 22 | 0 36 | 20 45 | 1 30 | 11 7 | 11 20 | 22 47 | 22 48 | 21 48 | 14 50 | 6 40 |
| M 3 | 4 2 | 23 52 | 0 36 | 3 31 | 1 42 | 9 40 | 0 56 | 23 35 | 1 25 | 9 30 | 1 24 | 15 7 | 1 27 | 7 24 | 0 36 | 20 46 | 1 29 | 11 7 | 11 20 | 22 47 | 22 49 | 21 49 | 14 49 | 6 40 |
| T 4 | 4 25 | 21 22 | 0s36 | 2 50 | 1 21 | 9 16 | 0 59 | 23 41 | 1 25 | 9 32 | 1 24 | 15 8 | 1 27 | 7 25 | 0 36 | 20 46 | 1 29 | 11 7 | 11 20 | 22 47 | 22 49 | 21 50 | 14 48 | 6 41 |
| W 5 | 4 48 | 17 44 | 1 45 | 2 12 | 1 1 | 8 50 | 1 1 | 23 46 | 1 26 | 9 34 | 1 24 | 15 8 | 1 27 | 7 26 | 0 36 | 20 46 | 1 29 | 11 7 | 11 20 | 22 48 | 22 49 | 21 51 | 14 47 | 6 42 |
| T 6 | 5 11 | 13 19 | 2 46 | 1 38 | 0 41 | 8 25 | 1 4 | 23 52 | 1 26 | 9 35 | 1 24 | 15 9 | 1 27 | 7 28 | 0 36 | 20 46 | 1 29 | 11 7 | 11 20 | 22 48 | 22 50 | 21 53 | 14 46 | 6 42 |
| F 7 | 5 34 | 8 23 | 3 38 | 1 7 | 0 21 | 7 59 | 1 6 | 23 57 | 1 26 | 9 37 | 1 24 | 15 10 | 1 26 | 7 29 | 0 36 | 20 46 | 1 29 | 11 6 | 11 21 | 22 48 | 22 50 | 21 54 | 14 45 | 6 43 |
| S 8 | 5 57 | 3 11 | 4 18 | 0 42 | 0 2 | 7 34 | 1 8 | 24 2 | 1 26 | 9 39 | 1 24 | 15 10 | 1 26 | 7 31 | 0 36 | 20 47 | 1 29 | 11 6 | 11 21 | 22 49 | 22 50 | 21 55 | 14 44 | 6 44 |
| S 9 | 6 20 | 2s 4 | 4 45 | 0 21 | 0n16 | 7 7 | 1 10 | 24 7 | 1 26 | 9 41 | 1 24 | 15 11 | 1 26 | 7 32 | 0 36 | 20 47 | 1 29 | 11 6 | 11 21 | 22 50 | 22 51 | 21 57 | 14 43 | 6 44 |
| M10 | 6 43 | 7 9 | 4 58 | 0 6 | 0 32 | 6 41 | 1 12 | 24 11 | 1 26 | 9 42 | 1 23 | 15 11 | 1 26 | 7 33 | 0 35 | 20 47 | 1 29 | 11 6 | 11 21 | 22 51 | 22 51 | 21 58 | 14 42 | 6 45 |
| T 11 | 7 5 | 11 55 | 4 58 | 0n 3 | 0 48 | 6 14 | 1 14 | 24 16 | 1 26 | 9 44 | 1 23 | 15 12 | 1 26 | 7 35 | 0 35 | 20 47 | 1 29 | 11 5 | 11 21 | 22 53 | 22 51 | 21 59 | 14 41 | 6 46 |
| W12 | 7 28 | 16 9 | 4 44 | 0 7 | 1 1 | 5 48 | 1 16 | 24 20 | 1 27 | 9 45 | 1 23 | 15 12 | 1 26 | 7 36 | 0 35 | 20 48 | 1 29 | 11 5 | 11 21 | 22 54 | 22 51 | 22 0 | 14 40 | 6 46 |
| T 13 | 7 50 | 19 43 | 4 17 | 0 6 | 1 14 | 5 21 | 1 18 | 24 24 | 1 27 | 9 47 | 1 23 | 15 13 | 1 26 | 7 38 | 0 35 | 20 48 | 1 29 | 11 5 | 11 22 | 22 55 | 22 52 | 22 2 | 14 39 | 6 47 |
| F 14 | 8 13 | 22 27 | 3 40 | 0 0 | 1 25 | 4 53 | 1 19 | 24 27 | 1 27 | 9 48 | 1 23 | 15 13 | 1 26 | 7 39 | 0 35 | 20 48 | 1 29 | 11 5 | 11 22 | 22 56 | 22 52 | 22 3 | 14 38 | 6 47 |
| S 15 | 8 35 | 24 12 | 2 53 | 0s11 | 1 34 | 4 26 | 1 21 | 24 31 | 1 27 | 9 49 | 1 23 | 15 13 | 1 26 | 7 41 | 0 35 | 20 48 | 1 29 | 11 5 | 11 22 | 22 57 | 22 52 | 22 4 | 14 37 | 6 48 |
| S 16 | 8 57 | 24 52 | 1 59 | 0 26 | 1 42 | 3 58 | 1 23 | 24 34 | 1 27 | 9 50 | 1 23 | 15 14 | 1 26 | 7 42 | 0 35 | 20 49 | 1 29 | 11 4 | 11 22 | 22 57 | 22 53 | 22 5 | 14 36 | 6 49 |
| M17 | 9 19 | 24 24 | 0 59 | 0 45 | 1 48 | 3 31 | 1 24 | 24 37 | 1 27 | 9 52 | 1 22 | 15 14 | 1 26 | 7 43 | 0 35 | 20 49 | 1 29 | 11 4 | 11 22 | 22 57 | 22 53 | 22 6 | 14 35 | 6 49 |
| T 18 | 9 41 | 22 48 | 0n 5 | 1 8 | 1 53 | 3 3 | 1 26 | 24 39 | 1 27 | 9 53 | 1 22 | 15 14 | 1 26 | 7 45 | 0 35 | 20 49 | 1 29 | 11 4 | 11 22 | 22 57 | 22 53 | 22 8 | 14 34 | 6 50 |
| W19 | 10 2 | 20 6 | 1 9 | 1 34 | 1 57 | 2 35 | 1 27 | 24 42 | 1 27 | 9 54 | 1 22 | 15 14 | 1 26 | 7 46 | 0 35 | 20 49 | 1 29 | 11 4 | 11 22 | 22 57 | 22 53 | 22 9 | 14 33 | 6 51 |
| T 20 | 10 24 | 16 24 | 2 12 | 2 3 | 2 0 | 2 7 | 1 28 | 24 44 | 1 27 | 9 54 | 1 22 | 15 15 | 1 26 | 7 48 | 0 35 | 20 50 | 1 29 | 11 3 | 11 23 | 22 57 | 22 54 | 22 10 | 14 32 | 6 51 |
| F 21 | 10 45 | 11 49 | 3 10 | 2 34 | 2 2 | 1 39 | 1 30 | 24 46 | 1 27 | 9 55 | 1 22 | 15 15 | 1 26 | 7 49 | 0 35 | 20 50 | 1 29 | 11 3 | 11 23 | 22 57 | 22 54 | 22 11 | 14 31 | 6 52 |
| S 22 | 11 6 | 6 31 | 4 0 | 3 8 | 2 3 | 1 11 | 1 31 | 24 48 | 1 27 | 9 56 | 1 22 | 15 15 | 1 26 | 7 50 | 0 35 | 20 50 | 1 29 | 11 3 | 11 23 | 22 58 | 22 54 | 22 12 | 14 30 | 6 53 |
| S 23 | 11 27 | 0 43 | 4 38 | 3 43 | 2 2 | 0 42 | 1 32 | 24 49 | 1 27 | 9 57 | 1 21 | 15 15 | 1 26 | 7 52 | 0 35 | 20 50 | 1 29 | 11 3 | 11 23 | 22 58 | 22 55 | 22 13 | 14 29 | 6 54 |
| M24 | 11 48 | 5n19 | 4 59 | 4 20 | 2 1 | 0 14 | 1 33 | 24 50 | 1 27 | 9 57 | 1 21 | 15 15 | 1 25 | 7 53 | 0 35 | 20 51 | 1 29 | 11 2 | 11 23 | 22 59 | 22 55 | 22 15 | 14 29 | 6 54 |
| T 25 | 12 9 | 11 12 | 5 1 | 4 57 | 1 59 | 0s15 | 1 34 | 24 51 | 1 27 | 9 58 | 1 21 | 15 15 | 1 25 | 7 55 | 0 35 | 20 51 | 1 29 | 11 2 | 11 23 | 23 0 | 22 55 | 22 16 | 14 28 | 6 55 |
| W26 | 12 29 | 16 32 | 4 42 | 5 36 | 1 57 | 0 43 | 1 34 | 24 52 | 1 27 | 9 58 | 1 21 | 15 15 | 1 25 | 7 56 | 0 35 | 20 51 | 1 28 | 11 2 | 11 23 | 23 1 | 22 55 | 22 17 | 14 27 | 6 56 |
| T 27 | 12 50 | 20 50 | 4 3 | 6 15 | 1 54 | 1 12 | 1 35 | 24 52 | 1 27 | 9 58 | 1 21 | 15 15 | 1 25 | 7 57 | 0 35 | 20 51 | 1 28 | 11 2 | 11 24 | 23 1 | 22 56 | 22 18 | 14 26 | 6 56 |
| F 28 | 13 10 | 23 40 | 3 7 | 6 55 | 1 50 | 1 40 | 1 36 | 24 53 | 1 27 | 9 59 | 1 20 | 15 15 | 1 25 | 7 59 | 0 35 | 20 52 | 1 28 | 11 2 | 11 24 | 23 2 | 22 56 | 22 19 | 14 25 | 6 57 |
| S 29 | 13 30 | 24 47 | 1 58 | 7 35 | 1 46 | 2 9 | 1 36 | 24 53 | 1 27 | 9 59 | 1 20 | 15 15 | 1 25 | 8 0 | 0 35 | 20 52 | 1 28 | 11 1 | 11 24 | 23 2 | 22 56 | 22 20 | 14 25 | 6 58 |
| S 30 | 13 49 | 24 8 | 0 44 | 8 16 | 1 42 | 2 37 | 1 37 | 24 52 | 1 27 | 9 59 | 1 20 | 15 15 | 1 25 | 8 2 | 0 35 | 20 52 | 1 28 | 11 1 | 11 24 | 23 2 | 22 56 | 22 21 | 14 24 | 6 58 |
| M31 | 14s 9 | 21n56 | 0s32 | 8s56 | 1n37 | 3s 6 | 1n37 | 24s52 | 1s27 | 9s59 | 1s20 | 15s14 | 1s25 | 8s 3 | 0n35 | 20s53 | 1n28 | 11n 1 | 11s24 | 23s 2 | 22s57 | 22s23 | 14n23 | 6s59 |

ASTRODIENST EPHEMERIS for the year 2140

geocentric

DECEMBER 2140

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|------|-------|--------|------|
| T 1 | 4 41 2 | 9♌8'21 | 5♍23 | 16♊54 | 20♈15 | 25♊27 | 8♋52 | 23♈50 | 23♈50 | 14♌3 | 12°R22 | 8°R24 | 9♌36 | 27♈13 | 23°R37 | T 1 |
| F 2 | 4 44 58 | 10° 9'07 | 18° 6 | 18°27 | 21°30 | 26°13 | 8°58 | 23°54 | 23°53 | 14° 6 | 12°II21 | 8°R24 | 9°33 | 27°20 | 23°R35 | F 2 |
| S 3 | 4 48 55 | 11° 9'55 | 0♌31 | 20° 0 | 22°46 | 26°59 | 9° 4 | 23°57 | 23°56 | 14° 8 | 12°20 | 8°22 | 9°30 | 27°27 | 23°32 | S 3 |
| S 4 | 4 52 51 | 12°10'44 | 12°41 | 21°33 | 24° 1 | 27°46 | 9°10 | 24° 1 | 23°59 | 14°10 | 12°19 | 8°19 | 9°27 | 27°34 | 23°29 | S 4 |
| M 5 | 4 56 48 | 13°11'34 | 24°42 | 23° 6 | 25°16 | 28°32 | 9°16 | 24° 5 | 24° 1 | 14°12 | 12°18 | 8°15 | 9°23 | 27°40 | 23°27 | M 5 |
| T 6 | 5 0 44 | 14°12'26 | 6♈36 | 24°39 | 26°31 | 29°18 | 9°22 | 24° 8 | 24° 4 | 14°15 | 12°16 | 8°11 | 9°20 | 27°47 | 23°24 | T 6 |
| W 7 | 5 4 41 | 15°13'19 | 18°26 | 26°11 | 27°47 | 0♌5 | 9°29 | 24°12 | 24° 7 | 14°17 | 12°15 | 8° 7 | 9°17 | 27°54 | 23°21 | W 7 |
| T 8 | 5 8 37 | 16°14'14 | 0♌15 | 27°44 | 29° 2 | 0°51 | 9°36 | 24°16 | 24°10 | 14°19 | 12°14 | 8° 3 | 9°14 | 28° 0 | 23°18 | T 8 |
| F 9 | 5 12 34 | 17°15'09 | 12° 6 | 29°16 | 0♌17 | 1°38 | 9°43 | 24°21 | 24°12 | 14°21 | 12°13 | 8° 0 | 9°11 | 28° 7 | 23°15 | F 9 |
| S 10 | 5 16 31 | 18°16'06 | 23°59 | 0♌48 | 1°32 | 2°24 | 9°50 | 24°25 | 24°15 | 14°24 | 12°12 | 7°58 | 9° 8 | 28°14 | 23°12 | S 10 |
| S 11 | 5 20 27 | 19°17'03 | 5♊57 | 2°20 | 2°48 | 3°11 | 9°57 | 24°29 | 24°17 | 14°26 | 12°11 | 7°D58 | 9° 4 | 28°20 | 23° 9 | S 11 |
| M12 | 5 24 24 | 20°18'02 | 18° 2 | 3°52 | 4° 3 | 3°58 | 10° 4 | 24°33 | 24°20 | 14°28 | 12°10 | 7°58 | 9° 1 | 28°27 | 23° 6 | M12 |
| T 13 | 5 28 20 | 21°19'01 | 0♌16 | 5°23 | 5°18 | 4°44 | 10°12 | 24°38 | 24°22 | 14°30 | 12° 8 | 7°59 | 8°58 | 28°34 | 23° 3 | T 13 |
| W14 | 5 32 17 | 22°20'01 | 12°41 | 6°54 | 6°34 | 5°31 | 10°19 | 24°42 | 24°25 | 14°33 | 12° 7 | 8° 0 | 8°55 | 28°40 | 23° 0 | W14 |
| T 15 | 5 36 13 | 23°21'01 | 25°21 | 8°25 | 7°49 | 6°18 | 10°27 | 24°47 | 24°27 | 14°35 | 12° 6 | 8° 2 | 8°52 | 28°47 | 22°56 | T 15 |
| F 16 | 5 40 10 | 24°22'02 | 8♋18 | 9°56 | 9° 4 | 7° 5 | 10°35 | 24°52 | 24°30 | 14°37 | 12° 5 | 8° 3 | 8°48 | 28°54 | 22°53 | F 16 |
| S 17 | 5 44 6 | 25°23'03 | 21°35 | 11°25 | 10°20 | 7°51 | 10°43 | 24°56 | 24°32 | 14°39 | 12° 4 | 8°R 3 | 8°45 | 29° 0 | 22°49 | S 17 |
| S 18 | 5 48 3 | 26°24'05 | 5♈14 | 12°54 | 11°35 | 8°38 | 10°52 | 25° 1 | 24°34 | 14°42 | 12° 3 | 8° 3 | 8°42 | 29° 7 | 22°46 | S 18 |
| M19 | 5 52 0 | 27°25'07 | 19°16 | 14°22 | 12°50 | 9°25 | 11° 0 | 25° 6 | 24°36 | 14°44 | 12° 2 | 8° 3 | 8°39 | 29°14 | 22°42 | M19 |
| T 20 | 5 55 56 | 28°26'10 | 3♌41 | 15°50 | 14° 6 | 10°12 | 11° 9 | 25°11 | 24°39 | 14°46 | 12° 1 | 8° 2 | 8°36 | 29°20 | 22°39 | T 20 |
| W21 | 5 59 53 | 29°27'13 | 18°25 | 17°16 | 15°21 | 10°59 | 11°17 | 25°16 | 24°41 | 14°48 | 12° 0 | 8° 0 | 8°33 | 29°27 | 22°35 | W21 |
| T 22 | 6 3 49 | 0♌28'16 | 3♈22 | 18°40 | 16°37 | 11°46 | 11°26 | 25°21 | 24°43 | 14°50 | 11°59 | 8° 0 | 8°29 | 29°34 | 22°31 | T 22 |
| F 23 | 6 7 46 | 1°29'20 | 18°26 | 20° 3 | 17°52 | 12°33 | 11°35 | 25°26 | 24°45 | 14°53 | 11°57 | 7°59 | 8°26 | 29°40 | 22°27 | F 23 |
| S 24 | 6 11 42 | 2°30'24 | 3♌27 | 21°23 | 19° 7 | 13°19 | 11°44 | 25°32 | 24°47 | 14°55 | 11°56 | 7°D59 | 8°23 | 29°47 | 22°24 | S 24 |
| S 25 | 6 15 39 | 3°31'29 | 18°16 | 22°42 | 20°23 | 14° 6 | 11°54 | 25°37 | 24°49 | 14°57 | 11°55 | 7°59 | 8°20 | 29°54 | 22°20 | S 25 |
| M26 | 6 19 36 | 4°32'34 | 2♈47 | 23°57 | 21°38 | 14°53 | 12° 3 | 25°42 | 24°51 | 14°59 | 11°54 | 7°59 | 8°17 | 0♌0 | 22°16 | M26 |
| T 27 | 6 23 32 | 5°33'40 | 16°54 | 25° 9 | 22°54 | 15°40 | 12°12 | 25°48 | 24°52 | 15° 1 | 11°53 | 7°59 | 8°14 | 0° 7 | 22°12 | T 27 |
| W28 | 6 27 29 | 6°34'46 | 0♈34 | 26°18 | 24° 9 | 16°27 | 12°22 | 25°53 | 24°54 | 15° 3 | 11°52 | 7°59 | 8°10 | 0°14 | 22° 8 | W28 |
| T 29 | 6 31 25 | 7°35'53 | 13°48 | 27°21 | 25°24 | 17°14 | 12°32 | 25°59 | 24°56 | 15° 6 | 11°51 | 8°R 0 | 8° 7 | 0°20 | 22° 4 | T 29 |
| F 30 | 6 35 22 | 8°37'00 | 26°37 | 28°20 | 26°40 | 18° 1 | 12°42 | 26° 4 | 24°58 | 15° 8 | 11°50 | 8° 0 | 8° 4 | 0°27 | 22° 0 | F 30 |
| S 31 | 6 39 18 | 9♌38'08 | 9♌6 | 29♌12 | 27♌55 | 18♌48 | 12♋52 | 26♌10 | 24♌59 | 15♌10 | 11°II49 | 7°D59 | 8♌1 | 0♌34 | 21♌56 | S 31 |

| Day | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|-------|-------|------|-------|------|-------|------|-------|------|------|------|-------|------|------|------|-------|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | lat |
| T 1 | 21s48 | 5n26 | 4s23 | 24s21 | 1s35 | 16s35 | 1n15 | 22s22 | 1s22 | 9s23 | 1s14 | 14s52 | 1s23 | 8s41 | 0n36 | 21s 1 |
| F 2 | 21 57 | 0 11 | 4 54 | 24 35 | 1 40 | 16 57 | 1 14 | 22 14 | 1 21 | 9 20 | 1 13 | 14 51 | 1 23 | 8 42 | 0 36 | 21 1 |
| S 3 | 22 6 | 4s57 | 5 11 | 24 47 | 1 44 | 17 17 | 1 12 | 22 4 | 1 21 | 9 18 | 1 13 | 14 49 | 1 23 | 8 43 | 0 36 | 21 2 |
| S 4 | 22 14 | 9 49 | 5 13 | 24 58 | 1 49 | 17 38 | 1 10 | 21 55 | 1 21 | 9 15 | 1 13 | 14 48 | 1 22 | 8 44 | 0 36 | 21 2 |
| M 5 | 22 22 | 14 13 | 5 1 | 25 7 | 1 53 | 17 58 | 1 8 | 21 45 | 1 21 | 9 13 | 1 13 | 14 47 | 1 22 | 8 45 | 0 36 | 21 2 |
| T 6 | 22 29 | 18 3 | 4 36 | 25 15 | 1 57 | 18 17 | 1 6 | 21 35 | 1 20 | 9 10 | 1 13 | 14 46 | 1 22 | 8 46 | 0 36 | 21 2 |
| W 7 | 22 36 | 21 8 | 4 0 | 25 22 | 2 0 | 18 36 | 1 4 | 21 25 | 1 20 | 9 8 | 1 13 | 14 44 | 1 22 | 8 47 | 0 36 | 21 3 |
| T 8 | 22 43 | 23 20 | 3 13 | 25 28 | 2 4 | 18 55 | 1 2 | 21 15 | 1 20 | 9 5 | 1 12 | 14 43 | 1 22 | 8 48 | 0 36 | 21 3 |
| F 9 | 22 49 | 24 30 | 2 18 | 25 32 | 2 6 | 19 13 | 1 0 | 21 4 | 1 19 | 9 2 | 1 12 | 14 41 | 1 22 | 8 49 | 0 36 | 21 3 |
| S 10 | 22 54 | 24 33 | 1 16 | 25 34 | 2 9 | 19 30 | 0 58 | 20 53 | 1 19 | 8 59 | 1 12 | 14 40 | 1 22 | 8 50 | 0 36 | 21 4 |
| S 11 | 22 59 | 23 28 | 0 11 | 25 35 | 2 11 | 19 47 | 0 56 | 20 42 | 1 18 | 8 56 | 1 12 | 14 38 | 1 22 | 8 51 | 0 36 | 21 4 |
| M12 | 23 4 | 21 17 | 0n55 | 25 35 | 2 13 | 20 3 | 0 54 | 20 31 | 1 18 | 8 54 | 1 12 | 14 37 | 1 22 | 8 52 | 0 36 | 21 4 |
| T 13 | 23 8 | 17 7 | 0 25 | 25 34 | 2 15 | 20 19 | 0 52 | 20 19 | 1 18 | 8 51 | 1 11 | 14 35 | 1 22 | 8 53 | 0 36 | 21 4 |
| W14 | 23 12 | 14 6 | 3 1 | 25 30 | 2 16 | 20 34 | 0 50 | 20 7 | 1 17 | 8 47 | 1 11 | 14 34 | 1 22 | 8 54 | 0 36 | 21 5 |
| T 15 | 23 15 | 9 24 | 3 53 | 25 26 | 2 17 | 20 49 | 0 48 | 19 56 | 1 17 | 8 44 | 1 11 | 14 32 | 1 22 | 8 55 | 0 36 | 21 5 |
| F 16 | 23 18 | 4 11 | 4 36 | 25 20 | 2 17 | 21 3 | 0 45 | 19 43 | 1 16 | 8 41 | 1 11 | 14 31 | 1 22 | 8 56 | 0 36 | 21 5 |
| S 17 | 23 20 | 1n20 | 5 4 | 25 12 | 2 17 | 21 16 | 0 43 | 19 31 | 1 16 | 8 38 | 1 11 | 14 29 | 1 22 | 8 56 | 0 36 | 21 5 |
| S 18 | 23 22 | 6 55 | 5 17 | 25 3 | 2 16 | 21 29 | 0 41 | 19 18 | 1 16 | 8 35 | 1 11 | 14 27 | 1 22 | 8 57 | 0 36 | 21 6 |
| M19 | 23 24 | 12 20 | 5 11 | 24 53 | 2 15 | 21 41 | 0 38 | 19 5 | 1 15 | 8 31 | 1 10 | 14 26 | 1 22 | 8 58 | 0 36 | 21 6 |
| T 20 | 23 25 | 17 13 | 4 46 | 24 41 | 2 13 | 21 53 | 0 36 | 18 52 | 1 15 | 8 28 | 1 10 | 14 24 | 1 22 | 8 59 | 0 36 | 21 6 |
| W21 | 23 25 | 21 10 | 4 2 | 24 28 | 2 10 | 22 4 | 0 34 | 18 39 | 1 14 | 8 24 | 1 10 | 14 22 | 1 21 | 8 59 | 0 36 | 21 6 |
| T 22 | 23 25 | 23 46 | 3 1 | 24 13 | 2 7 | 22 14 | 0 31 | 18 26 | 1 14 | 8 21 | 1 10 | 14 20 | 1 21 | 9 0 | 0 36 | 21 7 |
| F 23 | 23 25 | 24 41 | 1 46 | 23 57 | 2 3 | 22 23 | 0 29 | 18 12 | 1 13 | 8 17 | 1 10 | 14 19 | 1 21 | 9 1 | 0 36 | 21 7 |
| S 24 | 23 24 | 23 48 | 0 25 | 23 40 | 1 58 | 22 32 | 0 26 | 17 58 | 1 13 | 8 14 | 1 10 | 14 17 | 1 21 | 9 2 | 0 36 | 21 7 |
| S 25 | 23 22 | 21 14 | 0s57 | 23 22 | 1 53 | 22 40 | 0 24 | 17 44 | 1 13 | 8 10 | 1 9 | 14 15 | 1 21 | 9 2 | 0 36 | 21 7 |
| M26 | 23 21 | 17 21 | 2 14 | 23 3 | 1 46 | 22 48 | 0 22 | 17 30 | 1 12 | 8 6 | 1 9 | 14 13 | 1 21 | 9 3 | 0 36 | 21 7 |
| T 27 | 23 18 | 12 35 | 3 20 | 22 42 | 1 39 | 22 55 | 0 19 | 17 16 | 1 12 | 8 2 | 1 9 | 14 11 | 1 21 | 9 4 | 0 36 | 21 8 |
| W28 | 23 15 | 7 19 | 4 13 | 22 21 | 1 30 | 23 1 | 0 17 | 17 1 | 1 11 | 7 59 | 1 9 | 14 9 | 1 21 | 9 4 | 0 36 | 21 8 |
| T 29 | 23 12 | 1 54 | 4 50 | 22 0 | 1 21 | 23 6 | 0 14 | 16 47 | 1 11 | 7 55 | 1 9 | 14 7 | 1 21 | 9 5 | 0 36 | 21 8 |
| F 30 | 23 8 | 3s26 | 5 12 | 21 38 | 1 11 | 23 11 | 0 12 | 16 32 | 1 10 | 7 51 | 1 9 | 14 5 | 1 21 | 9 5 | 0 36 | 21 8 |
| S 31 | 23s 4 | 8s28 | 5s18 | 21s16 | 0s59 | 23s15 | 0n 9 | 16s17 | 1s10 | 7s47 | 1s 9 | 14s 3 | 1s21 | 9s 6 | 0n36 | 21s 9 |

Julian Day Number = 2503013.5, Delta T = 115.64 sec
 Ecliptic obliquity = 23°25'17", Nutation = 0°00'16", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°42'34", Lahiri = 25°49'34"