



Astrodienst Ephemeris Tables for the year 1857

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 1857
geocentric

JANUARY 1857

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|--------|--------|--------|--------|-------|--------|--------|--------|-------|--------|--------|-------|------|------|
| T 1 | 6 42 22 | 10°35'36 | 8°12 | 23°31 | 20°24 | 19°14 | 1°38 | 10°R46 | 21°R21 | 17°58 | 3°R44 | 10°R35 | 10°Y48 | 24°44 | 4° 4 | T 1 |
| F 2 | 6 46 19 | 11°36'46 | 22° 3 | 24°49 | 21°36 | 20° 1 | 1°45 | 10°341 | 21°819 | 17°59 | 3°844 | 10°Y33 | 10°45 | 24°50 | 4° 9 | F 2 |
| S 3 | 6 50 15 | 12°37'56 | 6°Y 0 | 26°25 | 22°48 | 20°48 | 1°53 | 10°36 | 21°18 | 18° 0 | 3°43 | 10°32 | 10°41 | 24°57 | 4°13 | S 3 |
| S 4 | 6 54 12 | 13°39'06 | 20° 3 | 28° 1 | 24° 0 | 21°35 | 2° 0 | 10°32 | 21°17 | 18° 1 | 3°43 | 10°32 | 10°38 | 25° 4 | 4°18 | S 4 |
| M 5 | 6 58 8 | 14°40'15 | 4°11 | 29°35 | 25°12 | 22°22 | 2° 8 | 10°27 | 21°15 | 18° 2 | 3°43 | 10°31 | 10°35 | 25°10 | 4°23 | M 5 |
| T 6 | 7 2 5 | 15°41'24 | 18°24 | 1°8 9 | 26°23 | 23° 9 | 2°16 | 10°22 | 21°14 | 18° 4 | 3°42 | 10°28 | 10°32 | 25°17 | 4°27 | T 6 |
| W 7 | 7 6 1 | 16°42'32 | 2°II38 | 2°42 | 27°35 | 23°56 | 2°24 | 10°17 | 21°13 | 18° 5 | 3°42 | 10°22 | 10°29 | 25°24 | 4°32 | W 7 |
| T 8 | 7 9 58 | 17°43'40 | 16°52 | 4°13 | 28°46 | 24°43 | 2°32 | 10°12 | 21°12 | 18° 6 | 3°42 | 10°14 | 10°26 | 25°30 | 4°37 | T 8 |
| F 9 | 7 13 54 | 18°44'48 | 0°59 | 5°42 | 29°58 | 25°30 | 2°40 | 10° 7 | 21°11 | 18° 8 | 3°42 | 10° 2 | 10°22 | 25°37 | 4°42 | F 9 |
| S 10 | 7 17 51 | 19°45'55 | 14°55 | 7°10 | 1°X 9 | 26°17 | 2°49 | 10° 2 | 21°10 | 18° 9 | 3°42 | 9°50 | 10°19 | 25°43 | 4°46 | S 10 |
| S 11 | 7 21 48 | 20°47'02 | 28°35 | 8°34 | 2°20 | 27° 4 | 2°58 | 9°57 | 21° 9 | 18°10 | 3°41 | 9°37 | 10°16 | 25°50 | 4°51 | S 11 |
| M12 | 7 25 44 | 21°48'08 | 11°57 | 9°56 | 3°31 | 27°51 | 3° 6 | 9°52 | 21° 8 | 18°12 | 3°41 | 9°25 | 10°13 | 25°57 | 4°56 | M12 |
| T 13 | 7 29 41 | 22°49'15 | 24°57 | 11°14 | 4°42 | 28°38 | 3°15 | 9°48 | 21° 7 | 18°13 | 3°41 | 9°16 | 10°10 | 26° 3 | 5° 1 | T 13 |
| W14 | 7 33 37 | 23°50'20 | 7°II38 | 12°27 | 5°53 | 29°25 | 3°24 | 9°43 | 21° 7 | 18°15 | 3°41 | 9° 9 | 10° 7 | 26°10 | 5° 6 | W14 |
| T 15 | 7 37 34 | 24°51'26 | 19°57 | 13°36 | 7° 4 | 0°X12 | 3°33 | 9°38 | 21° 6 | 18°16 | 3°41 | 9° 5 | 10° 3 | 26°17 | 5°11 | T 15 |
| F 16 | 7 41 30 | 25°52'31 | 2°2 | 14°38 | 8°14 | 0°59 | 3°43 | 9°34 | 21° 5 | 18°18 | 3°41 | 9° 3 | 10° 0 | 26°23 | 5°15 | F 16 |
| S 17 | 7 45 27 | 26°53'35 | 13°56 | 15°34 | 9°25 | 1°46 | 3°52 | 9°29 | 21° 4 | 18°19 | 3°D41 | 9°D 3 | 9°57 | 26°30 | 5°20 | S 17 |
| S 18 | 7 49 24 | 27°54'40 | 25°44 | 16°23 | 10°35 | 2°33 | 4° 2 | 9°24 | 21° 4 | 18°21 | 3°41 | 9°R 4 | 9°54 | 26°37 | 5°25 | S 18 |
| M19 | 7 53 20 | 28°55'44 | 7°II38 | 17° 3 | 11°45 | 3°20 | 4°11 | 9°20 | 21° 3 | 18°23 | 3°41 | 9° 3 | 9°51 | 26°43 | 5°30 | M19 |
| T 20 | 7 57 17 | 29°56'48 | 19°27 | 17°34 | 12°55 | 4° 7 | 4°21 | 9°15 | 21° 3 | 18°24 | 3°41 | 9° 1 | 9°47 | 26°50 | 5°35 | T 20 |
| W21 | 8 1 13 | 0°57'51 | 1°X31 | 17°55 | 14° 5 | 4°54 | 4°31 | 9°11 | 21° 2 | 18°26 | 3°41 | 8°57 | 9°44 | 26°57 | 5°40 | W21 |
| T 22 | 8 5 10 | 1°58'54 | 13°50 | 18°R 5 | 15°15 | 5°41 | 4°41 | 9° 6 | 21° 2 | 18°28 | 3°41 | 8°50 | 9°41 | 27° 3 | 5°45 | T 22 |
| F 23 | 8 9 6 | 2°59'56 | 26°28 | 18° 5 | 16°25 | 6°28 | 4°52 | 9° 2 | 21° 2 | 18°29 | 3°41 | 8°41 | 9°38 | 27°10 | 5°50 | F 23 |
| S 24 | 8 13 3 | 4° 0'57 | 9°326 | 17°52 | 17°34 | 7°15 | 5° 2 | 8°58 | 21° 1 | 18°31 | 3°42 | 8°30 | 9°35 | 27°17 | 5°55 | S 24 |
| S 25 | 8 16 59 | 5° 1'58 | 22°44 | 17°28 | 18°44 | 8° 2 | 5°12 | 8°54 | 21° 1 | 18°33 | 3°42 | 8°18 | 9°32 | 27°23 | 6° 0 | S 25 |
| M26 | 8 20 56 | 6° 2'58 | 6°21 | 16°54 | 19°53 | 8°49 | 5°23 | 8°50 | 21° 1 | 18°35 | 3°42 | 8° 7 | 9°28 | 27°30 | 6° 4 | M26 |
| T 27 | 8 24 53 | 7° 3'57 | 20°13 | 16° 8 | 21° 2 | 9°36 | 5°34 | 8°45 | 21° 1 | 18°36 | 3°42 | 7°58 | 9°25 | 27°37 | 6° 9 | T 27 |
| W28 | 8 28 49 | 8° 4'55 | 4°X16 | 15°14 | 22°11 | 10°22 | 5°44 | 8°41 | 21° 1 | 18°38 | 3°42 | 7°51 | 9°22 | 27°43 | 6°14 | W28 |
| T 29 | 8 32 46 | 9° 5'52 | 18°27 | 14°12 | 23°19 | 11° 9 | 5°55 | 8°38 | 21°D 1 | 18°40 | 3°43 | 7°46 | 9°19 | 27°50 | 6°19 | T 29 |
| F 30 | 8 36 42 | 10° 6'48 | 2°Y40 | 13° 4 | 24°28 | 11°56 | 6° 6 | 8°34 | 21° 1 | 18°42 | 3°43 | 7°D45 | 9°16 | 27°57 | 6°24 | F 30 |
| S 31 | 8 40 39 | 11° 7'42 | 16°Y52 | 11°52 | 25°X36 | 12°X43 | 6°Y17 | 8°30 | 21°X 1 | 18°X44 | 3°X43 | 7°Y45 | 9°Y13 | 28° 3 | 6°29 | 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 | decl lat | decl lat | decl lat |
| T 1 | 23s 2 | 11s 0 | 2s42 | 23s33 | 2s 7 | 16s24 | 1s48 | 16s 9 | 1s 8 | 0s32 | 1s18 | 22n27 | 0s34 | 17n51 | 0s16 | 5s48 |
| F 2 | 22 57 | 4 38 | 1 36 | 23 14 | 2 5 | 16 0 | 1 46 | 15 53 | 1 8 | 0 29 | 1 17 | 22 28 | 0 34 | 17 51 | 0 16 | 5 47 |
| S 3 | 22 52 | 2n 1 | 0 24 | 22 54 | 2 3 | 15 35 | 1 45 | 15 38 | 1 7 | 0 26 | 1 17 | 22 28 | 0 34 | 17 50 | 0 16 | 5 47 |
| S 4 | 22 46 | 8 37 | 0n50 | 22 32 | 2 0 | 15 9 | 1 43 | 15 22 | 1 7 | 0 23 | 1 17 | 22 29 | 0 34 | 17 50 | 0 16 | 5 46 |
| M 5 | 22 39 | 14 50 | 2 2 | 22 8 | 1 56 | 14 43 | 1 41 | 15 6 | 1 6 | 0 19 | 1 17 | 22 29 | 0 34 | 17 50 | 0 16 | 5 46 |
| T 6 | 22 32 | 20 17 | 3 6 | 21 44 | 1 51 | 14 17 | 1 39 | 14 51 | 1 5 | 0 16 | 1 16 | 22 30 | 0 34 | 17 49 | 0 16 | 5 45 |
| W 7 | 22 25 | 24 36 | 3 58 | 21 18 | 1 46 | 13 50 | 1 37 | 14 34 | 1 5 | 0 13 | 1 16 | 22 30 | 0 33 | 17 49 | 0 16 | 5 45 |
| T 8 | 22 17 | 27 23 | 4 36 | 20 50 | 1 40 | 13 24 | 1 35 | 14 18 | 1 4 | 0 9 | 1 16 | 22 31 | 0 33 | 17 49 | 0 16 | 5 44 |
| F 9 | 22 9 | 28 24 | 4 57 | 20 22 | 1 33 | 12 56 | 1 33 | 14 2 | 1 4 | 0 6 | 1 16 | 22 31 | 0 33 | 17 49 | 0 16 | 5 44 |
| S 10 | 22 0 | 27 35 | 4 59 | 19 53 | 1 25 | 12 29 | 1 30 | 13 45 | 1 3 | 0 2 | 1 15 | 22 32 | 0 33 | 17 48 | 0 16 | 5 43 |
| S 11 | 21 51 | 25 6 | 4 44 | 19 22 | 1 17 | 12 1 | 1 28 | 13 29 | 1 3 | 0n 2 | 1 15 | 22 32 | 0 33 | 17 48 | 0 16 | 5 42 |
| M12 | 21 42 | 21 17 | 4 14 | 18 51 | 1 7 | 11 33 | 1 25 | 13 12 | 1 2 | 0 5 | 1 15 | 22 33 | 0 33 | 17 48 | 0 16 | 5 42 |
| T 13 | 21 32 | 16 32 | 3 31 | 18 20 | 0 57 | 11 4 | 1 22 | 12 55 | 1 2 | 0 9 | 1 15 | 22 33 | 0 33 | 17 48 | 0 16 | 5 41 |
| W14 | 21 21 | 11 11 | 2 39 | 17 49 | 0 46 | 10 36 | 1 20 | 12 38 | 1 1 | 0 13 | 1 15 | 22 34 | 0 33 | 17 48 | 0 16 | 5 41 |
| T 15 | 21 11 | 5 31 | 1 40 | 17 18 | 0 33 | 10 7 | 1 17 | 12 21 | 1 0 | 0 17 | 1 14 | 22 34 | 0 32 | 17 47 | 0 16 | 5 40 |
| F 16 | 20 59 | 0s14 | 0 37 | 16 47 | 0 20 | 9 38 | 1 14 | 12 4 | 1 0 | 0 21 | 1 14 | 22 35 | 0 32 | 17 47 | 0 16 | 5 39 |
| S 17 | 20 48 | 5 54 | 0 26 | 16 17 | 0 6 | 9 8 | 1 11 | 11 46 | 0 59 | 0 25 | 1 14 | 22 35 | 0 32 | 17 47 | 0 16 | 5 39 |
| S 18 | 20 36 | 11 19 | 1 28 | 15 48 | 0n 9 | 8 39 | 1 8 | 11 29 | 0 59 | 0 29 | 1 14 | 22 36 | 0 32 | 17 47 | 0 16 | 5 38 |
| M19 | 20 24 | 16 20 | 2 25 | 15 20 | 0 25 | 8 9 | 1 4 | 11 11 | 0 58 | 0 33 | 1 13 | 22 36 | 0 32 | 17 47 | 0 16 | 5 38 |
| T 20 | 20 11 | 20 46 | 3 18 | 14 55 | 0 42 | 7 39 | 1 1 | 10 54 | 0 57 | 0 37 | 1 13 | 22 36 | 0 32 | 17 47 | 0 16 | 5 37 |
| W21 | 19 58 | 24 25 | 4 1 | 14 32 | 0 59 | 7 9 | 0 58 | 10 36 | 0 57 | 0 41 | 1 13 | 22 37 | 0 32 | 17 47 | 0 16 | 5 36 |
| T 22 | 19 44 | 27 2 | 4 35 | 14 12 | 1 17 | 6 39 | 0 54 | 10 18 | 0 56 | 0 45 | 1 13 | 22 37 | 0 32 | 17 47 | 0 16 | 5 36 |
| F 23 | 19 30 | 28 21 | 4 56 | 13 55 | 1 35 | 6 9 | 0 50 | 10 0 | 0 56 | 0 49 | 1 13 | 22 38 | 0 31 | 17 47 | 0 16 | 5 35 |
| S 24 | 19 16 | 28 10 | 5 3 | 13 42 | 1 53 | 5 38 | 0 47 | 9 42 | 0 55 | 0 54 | 1 12 | 22 38 | 0 31 | 17 47 | 0 16 | 5 34 |
| S 25 | 19 2 | 26 22 | 4 54 | 13 32 | 2 11 | 5 7 | 0 43 | 9 24 | 0 54 | 0 58 | 1 12 | 22 39 | 0 31 | 17 46 | 0 16 | 5 33 |
| M26 | 18 47 | 23 1 | 4 28 | 13 26 | 2 28 | 4 37 | 0 39 | 9 6 | 0 54 | 1 2 | 1 12 | 22 39 | 0 31 | 17 46 | 0 16 | 5 33 |
| T 27 | 18 31 | 18 19 | 3 45 | 13 25 | 2 43 | 4 6 | 0 35 | 8 48 | 0 53 | 1 7 | 1 12 | 22 39 | 0 31 | 17 46 | 0 16 | 5 32 |
| W28 | 18 16 | 12 34 | 2 49 | 13 27 | 2 58 | 3 35 | 0 31 | 8 30 | 0 52 | 1 11 | 1 12 | 22 40 | 0 31 | 17 46 | 0 16 | 5 31 |
| T 29 | 18 0 | 6 8 | 1 41 | 13 33 | 3 10 | 3 4 | 0 27 | 8 11 | 0 52 | 1 16 | 1 11 | 22 40 | 0 31 | 17 46 | 0 16 | 5 31 |
| F 30 | 17 44 | 0n39 | 0 27 | 13 42 | 3 21 | 2 33 | 0 23 | 7 53 | 0 51 | 1 20 | 1 11 | 22 41 | 0 31 | 17 47 | 0 16 | 5 30 |
| S 31 | 17s27 | 7n23 | 0n49 | 13s53 | 3n29 | 2s 2 | 0s18 | 7s34 | 0s51 | 1n25 | 1s11 | 22n41 | 0s30 | 17n47 | 0s16 | 5s29 |

Julian Day Number = 2399315.5, Delta T = 9.85 sec
Ecliptic obliquity = 23°27'37", Nutation = - 0°00'03", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°44'36", Lahiri = 21°51'37"

ASTRODIENST EPHEMERIS for the year 1857
geocentric

FEBRUARY 1857

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|--------|--------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|------|
| S 1 | 8 44 35 | 12♈ 8'35 | 1♉ 3 | 10°R39 | 26♊44 | 13♋30 | 6♌28 | 8°R26 | 21♍ 1 | 18♎46 | 3♏43 | 7♐46 | 9♑ 9 | 28♒10 | 6♓34 | S 1 |
| M 2 | 8 48 32 | 13° 9'26 | 15° 9 | 9♈25 | 27°52 | 14°16 | 6°40 | 8♉23 | 21° 1 | 18°48 | 3°44 | 7°R46 | 9° 6 | 28°16 | 6°39 | M 2 |
| T 3 | 8 52 28 | 14°10'16 | 29°10 | 8°14 | 29° 0 | 15° 3 | 6°51 | 8°19 | 21° 2 | 18°50 | 3°44 | 7°45 | 9° 3 | 28°23 | 6°44 | T 3 |
| W 4 | 8 56 25 | 15°11'05 | 13♊ 5 | 7° 8 | 0♋ 8 | 15°50 | 7° 3 | 8°16 | 21° 2 | 18°51 | 3°45 | 7°42 | 9° 0 | 28°30 | 6°49 | W 4 |
| T 5 | 9 0 22 | 16°11'52 | 26°54 | 6° 6 | 1°15 | 16°36 | 7°14 | 8°12 | 21° 2 | 18°53 | 3°45 | 7°36 | 8°57 | 28°36 | 6°53 | T 5 |
| F 6 | 9 4 18 | 17°12'38 | 10♌33 | 5°11 | 2°22 | 17°23 | 7°26 | 8° 9 | 21° 3 | 18°55 | 3°45 | 7°29 | 8°53 | 28°43 | 6°58 | F 6 |
| S 7 | 9 8 15 | 18°13'22 | 24° 2 | 4°24 | 3°29 | 18° 9 | 7°38 | 8° 6 | 21° 3 | 18°57 | 3°46 | 7°20 | 8°50 | 28°50 | 7° 3 | S 7 |
| S 8 | 9 12 11 | 19°14'05 | 7♎17 | 3°44 | 4°36 | 18°56 | 7°50 | 8° 3 | 21° 4 | 18°59 | 3°46 | 7°11 | 8°47 | 28°56 | 7° 8 | S 8 |
| M 9 | 9 16 8 | 20°14'46 | 20°18 | 3°13 | 5°42 | 19°43 | 8° 2 | 8° 0 | 21° 4 | 19° 2 | 3°47 | 7° 3 | 8°44 | 29° 3 | 7°13 | M 9 |
| T 10 | 9 20 4 | 21°15'26 | 3♎ 3 | 2°50 | 6°48 | 20°29 | 8°14 | 7°57 | 21° 5 | 19° 4 | 3°47 | 6°56 | 8°41 | 29°10 | 7°17 | T 10 |
| W11 | 9 24 1 | 22°16'05 | 15°33 | 2°34 | 7°54 | 21°16 | 8°26 | 7°54 | 21° 6 | 19° 6 | 3°48 | 6°52 | 8°38 | 29°16 | 7°22 | W11 |
| T 12 | 9 27 57 | 23°16'42 | 27°48 | 2°27 | 9° 0 | 22° 2 | 8°38 | 7°51 | 21° 6 | 19° 8 | 3°48 | 6°50 | 8°34 | 29°23 | 7°27 | T 12 |
| F 13 | 9 31 54 | 24°17'18 | 9♏51 | 2°D27 | 10° 5 | 22°48 | 8°50 | 7°48 | 21° 7 | 19°10 | 3°49 | 6°D49 | 8°31 | 29°30 | 7°32 | F 13 |
| S 14 | 9 35 51 | 25°17'52 | 21°44 | 2°33 | 11°10 | 23°35 | 9° 3 | 7°46 | 21° 8 | 19°12 | 3°49 | 6°50 | 8°28 | 29°36 | 7°36 | S 14 |
| S 15 | 9 39 47 | 26°18'26 | 3♎33 | 2°46 | 12°15 | 24°21 | 9°15 | 7°43 | 21° 9 | 19°14 | 3°50 | 6°52 | 8°25 | 29°43 | 7°41 | S 15 |
| M16 | 9 43 44 | 27°18'58 | 15°22 | 3° 5 | 13°19 | 25° 7 | 9°27 | 7°41 | 21°10 | 19°16 | 3°51 | 6°53 | 8°22 | 29°50 | 7°46 | M16 |
| T 17 | 9 47 40 | 28°19'29 | 27°16 | 3°30 | 14°24 | 25°54 | 9°40 | 7°39 | 21°11 | 19°18 | 3°51 | 6°R54 | 8°18 | 29°56 | 7°51 | T 17 |
| W18 | 9 51 37 | 29°19'59 | 9♊20 | 4° 0 | 15°28 | 26°40 | 9°53 | 7°37 | 21°12 | 19°20 | 3°52 | 6°53 | 8°15 | 0♎ 3 | 7°55 | W18 |
| T 19 | 9 55 33 | 0♋20'27 | 21°39 | 4°35 | 16°31 | 27°26 | 10° 6 | 7°35 | 21°13 | 19°23 | 3°53 | 6°51 | 8°12 | 0°10 | 8° 0 | T 19 |
| F 20 | 9 59 30 | 1°20'54 | 4♌17 | 5°14 | 17°34 | 28°12 | 10°18 | 7°33 | 21°14 | 19°25 | 3°53 | 6°48 | 8° 9 | 0°16 | 8° 4 | F 20 |
| S 21 | 10 3 26 | 2°21'20 | 17°18 | 5°58 | 18°37 | 28°59 | 10°31 | 7°31 | 21°15 | 19°27 | 3°54 | 6°43 | 8° 6 | 0°23 | 8° 9 | S 21 |
| S 22 | 10 7 23 | 3°21'44 | 0♈43 | 6°45 | 19°40 | 29°45 | 10°44 | 7°29 | 21°16 | 19°29 | 3°55 | 6°37 | 8° 3 | 0°30 | 8°14 | S 22 |
| M23 | 10 11 20 | 4°22'06 | 14°32 | 7°35 | 20°42 | 0♐31 | 10°57 | 7°28 | 21°18 | 19°31 | 3°56 | 6°32 | 7°59 | 0°36 | 8°18 | M23 |
| T 24 | 10 15 16 | 5°22'27 | 28°42 | 8°29 | 21°44 | 1°17 | 11°10 | 7°26 | 21°19 | 19°34 | 3°56 | 6°27 | 7°56 | 0°43 | 8°23 | T 24 |
| W25 | 10 19 13 | 6°22'47 | 13♋ 9 | 9°26 | 22°46 | 2° 3 | 11°23 | 7°25 | 21°20 | 19°36 | 3°57 | 6°24 | 7°53 | 0°50 | 8°27 | W25 |
| T 26 | 10 23 9 | 7°23'04 | 27°46 | 10°26 | 23°47 | 2°49 | 11°37 | 7°23 | 21°22 | 19°38 | 3°58 | 6°22 | 7°50 | 0°56 | 8°32 | T 26 |
| F 27 | 10 27 6 | 8°23'19 | 12♐26 | 11°28 | 24°48 | 3°35 | 11°50 | 7°22 | 21°23 | 19°40 | 3°59 | 6°D22 | 7°47 | 1° 3 | 8°36 | F 27 |
| S 28 | 10 31 2 | 9♊23'33 | 27° 4 | 12♓33 | 25° 48 | 4♐21 | 12° 3 | 7♌21 | 21♑25 | 19♋43 | 4♌ 0 | 6°Y23 | 7°Y44 | 1♎10 | 8♓40 | S 28 |

| Day | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|-------|-------|------|-------|------|-------|------|------|------|------|------|-------|------|-------|------|------|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl |
| S 1 | 17s10 | 13n45 | 2n 2 | 14s 8 | 3n35 | 1s31 | 0s14 | 7s16 | 0s50 | 1n29 | 1s11 | 22n41 | 0s30 | 17n47 | 0s16 | 5s28 |
| M 2 | 16 53 | 19 22 | 3 7 | 14 24 | 3 39 | 0 59 | 0 9 | 6 57 | 0 49 | 1 34 | 1 11 | 22 42 | 0 30 | 17 47 | 0 16 | 5 28 |
| T 3 | 16 36 | 23 54 | 4 0 | 14 41 | 3 40 | 0 28 | 0 5 | 6 38 | 0 49 | 1 39 | 1 10 | 22 42 | 0 30 | 17 47 | 0 16 | 5 27 |
| W 4 | 16 18 | 27 0 | 4 39 | 14 59 | 3 39 | 0n 3 | 0 0 | 6 20 | 0 48 | 1 43 | 1 10 | 22 42 | 0 30 | 17 47 | 0 16 | 5 26 |
| T 5 | 16 0 | 28 27 | 5 1 | 15 17 | 3 35 | 0 34 | 0n 5 | 6 1 | 0 47 | 1 48 | 1 10 | 22 43 | 0 30 | 17 47 | 0 15 | 5 25 |
| F 6 | 15 41 | 28 8 | 5 6 | 15 36 | 3 30 | 1 5 | 0 9 | 5 42 | 0 47 | 1 53 | 1 10 | 22 43 | 0 30 | 17 47 | 0 15 | 5 24 |
| S 7 | 15 23 | 26 9 | 4 54 | 15 54 | 3 23 | 1 36 | 0 14 | 5 23 | 0 46 | 1 58 | 1 10 | 22 43 | 0 29 | 17 47 | 0 15 | 5 24 |
| S 8 | 15 4 | 22 45 | 4 26 | 16 11 | 3 14 | 2 7 | 0 19 | 5 5 | 0 45 | 2 2 | 1 10 | 22 44 | 0 29 | 17 47 | 0 15 | 5 23 |
| M 9 | 14 45 | 18 16 | 3 44 | 16 28 | 3 5 | 2 38 | 0 24 | 4 46 | 0 45 | 2 7 | 1 9 | 22 44 | 0 29 | 17 48 | 0 15 | 5 22 |
| T 10 | 14 26 | 13 4 | 2 52 | 16 43 | 2 54 | 3 9 | 0 29 | 4 27 | 0 44 | 2 12 | 1 9 | 22 44 | 0 29 | 17 48 | 0 15 | 5 21 |
| W11 | 14 6 | 7 26 | 1 53 | 16 58 | 2 43 | 3 40 | 0 34 | 4 8 | 0 43 | 2 17 | 1 9 | 22 45 | 0 29 | 17 48 | 0 15 | 5 20 |
| T 12 | 13 46 | 1 37 | 0 49 | 17 11 | 2 31 | 4 11 | 0 40 | 3 49 | 0 43 | 2 22 | 1 9 | 22 45 | 0 29 | 17 48 | 0 15 | 5 20 |
| F 13 | 13 26 | 4s 9 | 0s16 | 17 23 | 2 19 | 4 41 | 0 45 | 3 30 | 0 42 | 2 27 | 1 9 | 22 45 | 0 29 | 17 48 | 0 15 | 5 19 |
| S 14 | 13 6 | 9 43 | 1 20 | 17 33 | 2 7 | 5 12 | 0 50 | 3 11 | 0 41 | 2 32 | 1 9 | 22 46 | 0 28 | 17 49 | 0 15 | 5 18 |
| S 15 | 12 46 | 14 54 | 2 20 | 17 42 | 1 54 | 5 42 | 0 56 | 2 52 | 0 41 | 2 37 | 1 9 | 22 46 | 0 28 | 17 49 | 0 15 | 5 17 |
| M16 | 12 25 | 19 33 | 3 14 | 17 50 | 1 42 | 6 12 | 1 1 | 2 33 | 0 40 | 2 42 | 1 8 | 22 46 | 0 28 | 17 49 | 0 15 | 5 16 |
| T 17 | 12 4 | 23 28 | 4 0 | 17 56 | 1 29 | 6 42 | 1 7 | 2 14 | 0 39 | 2 47 | 1 8 | 22 46 | 0 28 | 17 49 | 0 15 | 5 15 |
| W18 | 11 43 | 26 25 | 4 37 | 18 1 | 1 17 | 7 12 | 1 12 | 1 55 | 0 39 | 2 52 | 1 8 | 22 47 | 0 28 | 17 50 | 0 15 | 5 14 |
| T 19 | 11 22 | 28 12 | 5 1 | 18 5 | 1 5 | 7 42 | 1 18 | 1 36 | 0 38 | 2 57 | 1 8 | 22 47 | 0 28 | 17 50 | 0 15 | 5 14 |
| F 20 | 11 0 | 28 35 | 5 11 | 18 7 | 0 53 | 8 11 | 1 23 | 1 17 | 0 37 | 3 3 | 1 8 | 22 47 | 0 27 | 17 50 | 0 15 | 5 13 |
| S 21 | 10 39 | 27 24 | 5 6 | 18 8 | 0 41 | 8 41 | 1 29 | 0 58 | 0 37 | 3 8 | 1 8 | 22 48 | 0 27 | 17 51 | 0 15 | 5 12 |
| S 22 | 10 17 | 24 39 | 4 45 | 18 7 | 0 30 | 9 10 | 1 35 | 0 39 | 0 36 | 3 13 | 1 8 | 22 48 | 0 27 | 17 51 | 0 15 | 5 11 |
| M23 | 9 55 | 20 24 | 4 6 | 18 5 | 0 19 | 9 39 | 1 41 | 0 20 | 0 35 | 3 18 | 1 7 | 22 48 | 0 27 | 17 51 | 0 15 | 5 10 |
| T 24 | 9 33 | 14 56 | 3 12 | 18 1 | 0 8 | 10 7 | 1 47 | 0 1 | 0 35 | 3 23 | 1 7 | 22 48 | 0 27 | 17 52 | 0 15 | 5 9 |
| W25 | 9 11 | 8 32 | 2 4 | 17 57 | 0s 2 | 10 36 | 1 52 | 0n18 | 0 34 | 3 29 | 1 7 | 22 48 | 0 27 | 17 52 | 0 15 | 5 8 |
| T 26 | 8 48 | 1 37 | 0 47 | 17 50 | 0 12 | 11 4 | 1 58 | 0 37 | 0 33 | 3 34 | 1 7 | 22 49 | 0 27 | 17 53 | 0 15 | 5 7 |
| F 27 | 8 26 | 5n26 | 0n33 | 17 42 | 0 22 | 11 32 | 2 4 | 0 56 | 0 32 | 3 39 | 1 7 | 22 49 | 0 26 | 17 53 | 0 15 | 5 7 |
| S 28 | 8s 3 | 12n10 | 1n51 | 17s33 | 0s31 | 12n 0 | 2n10 | 1n15 | 0s32 | 3n45 | 1s 7 | 22n49 | 0s26 | 17n53 | 0s15 | 5s 6 |

Julian Day Number = 2399346.5, Delta T = 9.82 sec
Ecliptic obliquity = 23°27'37, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°44'41, Lahiri = 21°51'41

ASTRODIENST EPHEMERIS for the year 1857

geocentric

MARCH 1857

00:00 UT

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

| Day | ☉ | ☽ | ♂ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ |
|------|------------|-------|-------|-------|-------|-------|-------|------|------|------|-------|-------|-------|-------|------|------|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | lat |
| S 1 | 7s41 | 18n12 | 3n 2 | 17s23 | 0s40 | 12n27 | 2n16 | 1n33 | 0s31 | 3n50 | 1s 7 | 22n49 | 0s26 | 17n54 | 0s15 | 5s 5 |
| M 2 | 7 18 23 | 7 4 0 | 17 11 | 0 49 | 12 54 | 2 22 | 1 52 | 0 30 | 3 55 | 1 7 | 22 49 | 0 26 | 17 54 | 0 15 | 5 4 | 1 6 |
| T 3 | 6 55 26 37 | 4 42 | 16 58 | 0 57 | 13 21 | 2 28 | 2 11 | 0 30 | 4 1 | 1 6 | 22 50 | 0 26 | 17 55 | 0 15 | 5 3 | 1 6 |
| W 4 | 6 32 28 26 | 5 7 | 16 43 | 1 5 | 13 48 | 2 34 | 2 30 | 0 29 | 4 6 | 1 6 | 22 50 | 0 26 | 17 55 | 0 15 | 5 2 | 1 6 |
| T 5 | 6 9 28 30 | 5 15 | 16 27 | 1 13 | 14 14 | 2 40 | 2 48 | 0 28 | 4 11 | 1 6 | 22 50 | 0 26 | 17 56 | 0 15 | 5 1 | 1 6 |
| F 6 | 5 45 26 53 | 5 5 | 16 10 | 1 20 | 14 40 | 2 46 | 3 7 | 0 28 | 4 17 | 1 6 | 22 50 | 0 25 | 17 56 | 0 15 | 5 0 | 1 6 |
| S 7 | 5 22 23 51 | 4 40 | 15 51 | 1 26 | 15 5 | 2 53 | 3 26 | 0 27 | 4 22 | 1 6 | 22 50 | 0 25 | 17 57 | 0 15 | 5 0 | 1 6 |
| S 8 | 4 59 19 40 | 4 0 | 15 32 | 1 33 | 15 30 | 2 59 | 3 44 | 0 26 | 4 28 | 1 6 | 22 51 | 0 25 | 17 57 | 0 15 | 4 59 | 1 6 |
| M 9 | 4 35 14 41 | 3 10 | 15 10 | 1 39 | 15 55 | 3 5 | 4 3 | 0 26 | 4 33 | 1 6 | 22 51 | 0 25 | 17 58 | 0 15 | 4 58 | 1 6 |
| T 10 | 4 12 9 11 | 2 11 | 14 48 | 1 44 | 16 20 | 3 11 | 4 21 | 0 25 | 4 38 | 1 6 | 22 51 | 0 25 | 17 58 | 0 15 | 4 57 | 1 6 |
| W 11 | 3 49 3 25 | 1 7 | 14 24 | 1 49 | 16 44 | 3 17 | 4 39 | 0 24 | 4 44 | 1 6 | 22 51 | 0 25 | 17 59 | 0 15 | 4 56 | 1 6 |
| T 12 | 3 25 2s25 | 0 0 | 13 59 | 1 54 | 17 7 | 3 23 | 4 58 | 0 23 | 4 49 | 1 6 | 22 51 | 0 25 | 17 59 | 0 15 | 4 55 | 1 6 |
| F 13 | 3 1 8 5 | 1s 5 | 13 32 | 1 58 | 17 31 | 3 29 | 5 16 | 0 23 | 4 55 | 1 5 | 22 51 | 0 24 | 18 0 | 0 15 | 4 54 | 1 6 |
| S 14 | 2 38 13 26 | 2 8 | 13 5 | 2 2 | 17 54 | 3 35 | 5 34 | 0 22 | 5 0 | 1 5 | 22 51 | 0 24 | 18 0 | 0 15 | 4 53 | 1 6 |
| S 15 | 2 14 18 17 | 3 5 | 12 36 | 2 6 | 18 16 | 3 41 | 5 52 | 0 21 | 5 6 | 1 5 | 22 51 | 0 24 | 18 1 | 0 15 | 4 52 | 1 6 |
| M 16 | 1 50 22 26 | 3 54 | 12 5 | 2 9 | 18 38 | 3 47 | 6 10 | 0 21 | 5 11 | 1 5 | 22 52 | 0 24 | 18 2 | 0 15 | 4 52 | 1 6 |
| T 17 | 1 27 25 42 | 4 33 | 11 34 | 2 12 | 19 0 | 3 53 | 6 28 | 0 20 | 5 17 | 1 5 | 22 52 | 0 24 | 18 2 | 0 15 | 4 51 | 1 7 |
| W 18 | 1 3 27 51 | 5 1 | 11 1 | 2 14 | 19 21 | 3 59 | 6 46 | 0 19 | 5 22 | 1 5 | 22 52 | 0 24 | 18 3 | 0 15 | 4 50 | 1 7 |
| T 19 | 0 39 28 43 | 5 15 | 10 27 | 2 16 | 19 42 | 4 5 | 7 4 | 0 19 | 5 28 | 1 5 | 22 52 | 0 24 | 18 4 | 0 15 | 4 49 | 1 7 |
| F 20 | 0 16 28 7 | 5 16 | 9 52 | 2 17 | 20 2 | 4 11 | 7 22 | 0 18 | 5 33 | 1 5 | 22 52 | 0 23 | 18 4 | 0 15 | 4 48 | 1 7 |
| S 21 | 0n 8 26 1 | 5 0 | 9 15 | 2 18 | 20 22 | 4 16 | 7 39 | 0 17 | 5 39 | 1 5 | 22 52 | 0 23 | 18 5 | 0 15 | 4 47 | 1 7 |
| S 22 | 0 32 22 26 | 4 28 | 8 38 | 2 18 | 20 41 | 4 22 | 7 57 | 0 17 | 5 44 | 1 5 | 22 52 | 0 23 | 18 5 | 0 15 | 4 46 | 1 7 |
| M 23 | 0 56 17 30 | 3 40 | 7 59 | 2 18 | 21 0 | 4 28 | 8 14 | 0 16 | 5 50 | 1 5 | 22 52 | 0 23 | 18 6 | 0 15 | 4 45 | 1 7 |
| T 24 | 1 19 11 29 | 2 37 | 7 19 | 2 18 | 21 18 | 4 33 | 8 32 | 0 15 | 5 55 | 1 5 | 22 52 | 0 23 | 18 7 | 0 15 | 4 45 | 1 7 |
| W 25 | 1 43 4 43 | 1 22 | 6 38 | 2 17 | 21 36 | 4 39 | 8 49 | 0 15 | 6 1 | 1 5 | 22 52 | 0 23 | 18 7 | 0 15 | 4 44 | 1 7 |
| T 26 | 2 6 2n27 | 0 0 | 5 55 | 2 15 | 21 53 | 4 44 | 9 6 | 0 14 | 6 6 | 1 4 | 22 52 | 0 23 | 18 8 | 0 14 | 4 43 | 1 7 |
| F 27 | 2 30 9 34 | 1n22 | 5 12 | 2 13 | 22 10 | 4 50 | 9 23 | 0 13 | 6 12 | 1 4 | 22 52 | 0 22 | 18 9 | 0 14 | 4 42 | 1 7 |
| S 28 | 2 53 16 7 | 2 39 | 4 27 | 2 11 | 22 26 | 4 55 | 9 40 | 0 12 | 6 17 | 1 4 | 22 52 | 0 22 | 18 10 | 0 14 | 4 41 | 1 7 |
| S 29 | 3 17 21 41 | 3 45 | 3 42 | 2 8 | 22 42 | 5 0 | 9 57 | 0 12 | 6 23 | 1 4 | 22 52 | 0 22 | 18 10 | 0 14 | 4 40 | 1 7 |
| M 30 | 3 40 25 47 | 4 34 | 2 55 | 2 5 | 22 57 | 5 5 | 10 14 | 0 11 | 6 28 | 1 4 | 22 52 | 0 22 | 18 11 | 0 14 | 4 39 | 1 7 |
| T 31 | 4n 3 28n10 | 5n 5 | 2s 7 | 2s 1 | 23n11 | 5n10 | 10n30 | 0s10 | 6n34 | 1s 4 | 22n52 | 0s22 | 18n12 | 0s14 | 4s39 | 1s 7 |

Julian Day Number = 2399374.5, Delta T = 9.80 sec
 Ecliptic obliquity = 23°27'38", Nutation = - 0°00'02", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 22°44'44", Lahiri = 21°51'45"

ASTRODIENST EPHEMERIS for the year 1857

geocentric

APRIL 1857

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|---------|--------|--------|--------|--------|-------|--------|--------|-------|-------|-------|-------|-------|------|
| W 1 | 12 37 12 | 11°13'16 | 4°46 4 | 1°12 | 22°16 | 28°27 | 19°31 | 7°46 | 22°36 | 20°55 | 4°35 | 6°R12 | 6°V 2 | 4°M43 | 10°40 | W 1 |
| T 2 | 12 41 9 | 12°12'24 | 17°38 | 3° 5 | 22°49 | 29°11 | 19°45 | 7°48 | 22°39 | 20°57 | 4°36 | 6°D12 | 5°59 | 4°49 | 10°43 | T 2 |
| F 3 | 12 45 5 | 13°11'29 | 0°249 | 5° 1 | 23°21 | 29°56 | 20° 0 | 7°51 | 22°42 | 20°59 | 4°37 | 6°V12 | 5°56 | 4°56 | 10°46 | F 3 |
| S 4 | 12 49 2 | 14°10'32 | 13°42 | 6°57 | 23°52 | 0°40 | 20°14 | 7°54 | 22°45 | 21° 1 | 4°39 | 6°13 | 5°52 | 5° 3 | 10°49 | S 4 |
| S 5 | 12 52 58 | 15° 9'32 | 26°17 | 8°55 | 24°21 | 1°24 | 20°28 | 7°57 | 22°48 | 21° 3 | 4°40 | 6°14 | 5°49 | 5° 9 | 10°51 | S 5 |
| M 6 | 12 56 55 | 16° 8'30 | 8°39 | 10°55 | 24°49 | 2° 8 | 20°43 | 8° 0 | 22°51 | 21° 5 | 4°41 | 6°14 | 5°46 | 5°16 | 10°54 | M 6 |
| T 7 | 13 0 51 | 17° 7'26 | 20°49 | 12°55 | 25°15 | 2°53 | 20°57 | 8° 3 | 22°54 | 21° 7 | 4°42 | 6°15 | 5°43 | 5°23 | 10°57 | T 7 |
| W 8 | 13 4 48 | 18° 6'20 | 2°51 | 14°57 | 25°39 | 3°37 | 21°12 | 8° 6 | 22°57 | 21° 9 | 4°44 | 6°R16 | 5°40 | 5°29 | 10°59 | W 8 |
| T 9 | 13 8 44 | 19° 5'12 | 14°47 | 17° 0 | 26° 1 | 4°21 | 21°26 | 8° 9 | 23° 0 | 21°12 | 4°45 | 6°15 | 5°36 | 5°36 | 11° 2 | T 9 |
| F 10 | 13 12 41 | 20° 4'02 | 26°39 | 19° 4 | 26°22 | 5° 5 | 21°41 | 8°13 | 23° 3 | 21°14 | 4°46 | 6°15 | 5°33 | 5°43 | 11° 4 | F 10 |
| S 11 | 13 16 38 | 21° 2'49 | 8°28 | 21° 9 | 26°40 | 5°49 | 21°55 | 8°16 | 23° 6 | 21°16 | 4°48 | 6°13 | 5°30 | 5°49 | 11° 7 | S 11 |
| S 12 | 13 20 34 | 22° 1'35 | 20°17 | 23°14 | 26°57 | 6°33 | 22°10 | 8°20 | 23° 9 | 21°18 | 4°49 | 6°11 | 5°27 | 5°56 | 11° 9 | S 12 |
| M13 | 13 24 31 | 23° 0'19 | 2°9 | 25°21 | 27°11 | 7°17 | 22°24 | 8°23 | 23°12 | 21°20 | 4°50 | 6° 8 | 5°24 | 6° 3 | 11°11 | M13 |
| T 14 | 13 28 27 | 23°59'02 | 14° 6 | 27°27 | 27°24 | 8° 0 | 22°39 | 8°27 | 23°15 | 21°22 | 4°52 | 6° 6 | 5°21 | 6° 9 | 11°14 | T 14 |
| W15 | 13 32 24 | 24°57'42 | 26°12 | 29°34 | 27°34 | 8°44 | 22°53 | 8°31 | 23°18 | 21°24 | 4°53 | 6° 3 | 5°17 | 6°16 | 11°16 | W15 |
| T 16 | 13 36 20 | 25°56'21 | 8°28 | 1°41 | 27°42 | 9°28 | 23° 7 | 8°35 | 23°21 | 21°26 | 4°55 | 6° 1 | 5°14 | 6°23 | 11°18 | T 16 |
| F 17 | 13 40 17 | 26°54'58 | 21° 1 | 3°48 | 27°48 | 10°12 | 23°22 | 8°39 | 23°25 | 21°28 | 4°56 | 6° 0 | 5°11 | 6°29 | 11°20 | F 17 |
| S 18 | 13 44 13 | 27°53'34 | 3°53 | 5°54 | 27°52 | 10°55 | 23°36 | 8°43 | 23°28 | 21°30 | 4°57 | 6°D 0 | 5° 8 | 6°36 | 11°22 | S 18 |
| S 19 | 13 48 10 | 28°52'08 | 17° 7 | 7°58 | 27°R53 | 11°39 | 23°51 | 8°47 | 23°31 | 21°31 | 4°59 | 6° 1 | 5° 5 | 6°43 | 11°24 | S 19 |
| M20 | 13 52 7 | 29°50'40 | 0°47 | 10° 2 | 27°52 | 12°22 | 24° 5 | 8°51 | 23°34 | 21°33 | 5° 0 | 6° 3 | 5° 1 | 6°49 | 11°26 | M20 |
| T 21 | 13 56 3 | 0°49'10 | 14°53 | 12° 4 | 27°49 | 13° 6 | 24°20 | 8°56 | 23°37 | 21°35 | 5° 1 | 6° 4 | 4°58 | 6°56 | 11°28 | T 21 |
| W22 | 14 0 0 | 1°47'39 | 29°25 | 14° 4 | 27°43 | 13°49 | 24°34 | 9° 0 | 23°41 | 21°37 | 5° 3 | 6°R 5 | 4°55 | 7° 3 | 11°29 | W22 |
| T 23 | 14 3 56 | 2°46'06 | 14°V18 | 16° 2 | 27°35 | 14°33 | 24°48 | 9° 5 | 23°44 | 21°39 | 5° 4 | 6° 5 | 4°52 | 7° 9 | 11°31 | T 23 |
| F 24 | 14 7 53 | 3°44'31 | 29°27 | 17°57 | 27°24 | 15°16 | 25° 3 | 9° 9 | 23°47 | 21°41 | 5° 5 | 6° 3 | 4°49 | 7°16 | 11°33 | F 24 |
| S 25 | 14 11 49 | 4°42'55 | 14°B41 | 19°50 | 27°11 | 15°59 | 25°17 | 9°14 | 23°51 | 21°42 | 5° 7 | 6° 1 | 4°46 | 7°23 | 11°34 | S 25 |
| S 26 | 14 15 46 | 5°41'16 | 29°51 | 21°39 | 26°55 | 16°43 | 25°31 | 9°19 | 23°54 | 21°44 | 5° 8 | 5°57 | 4°42 | 7°29 | 11°36 | S 26 |
| M27 | 14 19 42 | 6°39'36 | 14°II47 | 23°25 | 26°37 | 17°26 | 25°46 | 9°23 | 23°57 | 21°46 | 5°10 | 5°53 | 4°39 | 7°36 | 11°37 | M27 |
| T 28 | 14 23 39 | 7°37'54 | 29°22 | 25° 8 | 26°17 | 18° 9 | 26° 0 | 9°28 | 24° 1 | 21°48 | 5°11 | 5°48 | 4°36 | 7°43 | 11°38 | T 28 |
| W29 | 14 27 36 | 8°36'10 | 13°B30 | 26°47 | 25°54 | 18°52 | 26°14 | 9°33 | 24° 4 | 21°49 | 5°12 | 5°45 | 4°33 | 7°49 | 11°40 | W29 |
| T 30 | 14 31 32 | 9°34'24 | 27°B10 | 28°B23 | 25°B29 | 19°B35 | 26°V29 | 9°B39 | 24°B 8 | 21°B51 | 5°B14 | 5°V43 | 4°V30 | 7°M56 | 11°41 | 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 | decl | lat |
| W 1 | 4n27 | 28n41 | 5n17 | 1s18 | 1s56 | 23n25 | 5n15 | 10n47 | 0s10 | 6n39 | 1s 4 | 22n52 | 0s22 | 18n12 | 0s14 | 4s38 | 1s 7 | 2s12 | 16s10 | 2n28 | 2n24 | 15s26 | 11s 7 | 6n42 | | | |
| T 2 | 4 50 | 27 26 | 5 11 | 0 28 | 1 51 | 23 39 | 5 20 | 11 3 | 0 9 | 6 45 | 1 4 | 22 52 | 0 22 | 18 13 | 0 14 | 4 37 | 1 7 | 2 12 | 16 10 | 2 28 | 2 23 | 15 29 | 11 6 | 6 43 | | | |
| F 3 | 5 13 | 24 41 | 4 49 | 0n22 | 1 46 | 23 51 | 5 24 | 11 19 | 0 8 | 6 50 | 1 4 | 22 52 | 0 21 | 18 14 | 0 14 | 4 36 | 1 7 | 2 11 | 16 10 | 2 28 | 2 21 | 15 32 | 11 5 | 6 43 | | | |
| S 4 | 5 36 | 20 45 | 4 12 | 1 14 | 1 40 | 24 3 | 5 29 | 11 36 | 0 8 | 6 56 | 1 4 | 22 52 | 0 21 | 18 15 | 0 14 | 4 35 | 1 7 | 2 10 | 16 10 | 2 28 | 2 20 | 15 35 | 11 4 | 6 44 | | | |
| S 5 | 5 59 | 15 58 | 3 24 | 2 6 | 1 34 | 24 15 | 5 33 | 11 52 | 0 7 | 7 1 | 1 4 | 22 52 | 0 21 | 18 15 | 0 14 | 4 34 | 1 7 | 2 10 | 16 9 | 2 28 | 2 19 | 15 38 | 11 2 | 6 44 | | | |
| M 6 | 6 21 | 10 37 | 2 27 | 3 0 | 1 27 | 24 26 | 5 37 | 12 8 | 0 6 | 7 7 | 1 4 | 22 52 | 0 21 | 18 16 | 0 14 | 4 34 | 1 7 | 2 9 | 16 9 | 2 29 | 2 18 | 15 41 | 11 1 | 6 44 | | | |
| T 7 | 6 44 | 4 56 | 1 25 | 3 54 | 1 19 | 24 36 | 5 40 | 12 23 | 0 6 | 7 12 | 1 4 | 22 52 | 0 21 | 18 17 | 0 14 | 4 33 | 1 7 | 2 9 | 16 9 | 2 29 | 2 16 | 15 44 | 11 0 | 6 45 | | | |
| W 8 | 7 6 | 0s51 | 0 19 | 4 48 | 1 11 | 24 45 | 5 44 | 12 39 | 0 5 | 7 17 | 1 4 | 22 52 | 0 21 | 18 18 | 0 14 | 4 32 | 1 7 | 2 8 | 16 9 | 2 29 | 2 15 | 15 47 | 10 59 | 6 45 | | | |
| T 9 | 7 29 | 6 33 | 0s47 | 5 43 | 1 3 | 24 54 | 5 47 | 12 55 | 0 4 | 7 23 | 1 4 | 22 52 | 0 21 | 18 18 | 0 14 | 4 31 | 1 7 | 2 8 | 16 9 | 2 29 | 2 14 | 15 50 | 10 58 | 6 46 | | | |
| F 10 | 7 51 | 12 0 | 1 51 | 6 39 | 0 54 | 25 2 | 5 50 | 13 10 | 0 4 | 7 28 | 1 4 | 22 52 | 0 21 | 18 19 | 0 14 | 4 30 | 1 7 | 2 7 | 16 9 | 2 29 | 2 13 | 15 53 | 10 57 | 6 46 | | | |
| S 11 | 8 13 | 17 0 | 2 49 | 7 34 | 0 45 | 25 9 | 5 53 | 13 25 | 0 3 | 7 34 | 1 4 | 22 52 | 0 20 | 18 20 | 0 14 | 4 30 | 1 7 | 2 7 | 16 9 | 2 28 | 2 11 | 15 56 | 10 56 | 6 46 | | | |
| S 12 | 8 35 | 21 22 | 3 40 | 8 30 | 0 35 | 25 15 | 5 56 | 13 40 | 0 2 | 7 39 | 1 4 | 22 52 | 0 20 | 18 21 | 0 14 | 4 29 | 1 7 | 2 6 | 16 9 | 2 27 | 2 10 | 15 59 | 10 55 | 6 47 | | | |
| M13 | 8 57 | 24 53 | 4 22 | 9 26 | 0 25 | 25 21 | 5 58 | 13 55 | 0 2 | 7 44 | 1 4 | 22 52 | 0 20 | 18 22 | 0 14 | 4 28 | 1 7 | 2 6 | 16 9 | 2 26 | 2 9 | 16 2 | 10 54 | 6 47 | | | |
| T 14 | 9 19 | 27 21 | 4 53 | 10 21 | 0 15 | 25 26 | 6 0 | 14 10 | 0 1 | 7 50 | 1 4 | 22 51 | 0 20 | 18 22 | 0 14 | 4 27 | 1 7 | 2 5 | 16 9 | 2 25 | 2 7 | 16 4 | 10 53 | 6 48 | | | |
| W15 | 9 40 | 28 35 | 5 11 | 11 16 | 0 4 | 25 30 | 6 1 | 14 25 | 0 0 | 7 55 | 1 4 | 22 51 | 0 20 | 18 23 | 0 14 | 4 27 | 1 7 | 2 5 | 16 8 | 2 24 | 2 6 | 16 7 | 10 52 | 6 48 | | | |
| T 16 | 10 2 | 28 26 | 5 15 | 12 11 | 0n 7 | 25 33 | 6 3 | 14 40 | 0n 0 | 8 1 | 1 4 | 22 51 | 0 20 | 18 24 | 0 14 | 4 26 | 1 7 | 2 4 | 16 8 | 2 24 | 2 5 | 16 10 | 10 51 | 6 48 | | | |
| F 17 | 10 23 | 26 50 | 5 5 | 13 4 | 0 18 | 25 35 | 6 3 | 14 54 | 0 1 | 8 6 | 1 4 | 22 51 | 0 20 | 18 25 | 0 14 | 4 25 | 1 7 | 2 4 | 16 8 | 2 23 | 2 4 | 16 13 | 10 50 | 6 49 | | | |
| S 18 | 10 44 | 23 49 | 4 39 | 13 57 | 0 29 | 25 36 | 6 4 | 15 8 | 0 2 | 8 11 | 1 4 | 22 51 | 0 19 | 18 26 | 0 14 | 4 24 | 1 7 | 2 3 | 16 8 | 2 23 | 2 2 | 16 16 | 10 49 | 6 49 | | | |
| S 19 | 11 5 | 19 30 | 3 58 | 14 48 | 0 40 | 25 36 | 6 4 | 15 23 | 0 2 | 8 17 | 1 4 | 22 51 | 0 19 | 18 26 | 0 14 | 4 24 | 1 7 | 2 3 | 16 8 | 2 24 | 2 1 | 16 19 | 10 48 | 6 50 | | | |
| M20 | 11 26 | 14 3 | 3 2 | 15 38 | 0 50 | 25 36 | 6 3 | 15 36 | 0 3 | 8 22 | 1 4 | 22 51 | 0 19 | 18 27 | 0 14 | 4 23 | 1 7 | 2 2 | 16 8 | 2 24 | 2 0 | 16 22 | 10 47 | 6 50 | | | |
| T 21 | 11 46 | 7 43 | 1 54 | 16 26 | 1 1 | 25 34 | 6 2 | 15 50 | 0 3 | 8 27 | 1 4 | 22 51 | 0 19 | 18 28 | 0 14 | 4 22 | 1 7 | 2 2 | 16 8 | 2 25 | 1 59 | 16 25 | 10 46 | 6 51 | | | |
| W22 | 12 6 | 0 48 | 0 37 | 17 13 | 1 11 | 25 31 | 6 1 | 16 4 | 0 4 | 8 33 | 1 4 | 22 50 | 0 19 | 18 29 | 0 14 | 4 21 | 1 7 | 2 1 | 16 8 | 2 25 | 1 57 | 16 28 | 10 45 | 6 51 | | | |
| T 23 | 12 27 | 6n20 | 0n45 | 17 57 | 1 21 | 25 27 | 5 59 | 16 17 | 0 5 | 8 38 | 1 4 | 22 50 | 0 19 | 18 30 | 0 14 | 4 21 | 1 7 | 2 1 | 16 8 | 2 25 | 1 56 | 16 31 | 10 45 | 6 52 | | | |
| F 24 | 12 47 | 13 14 | 2 5 | 18 39 | 1 31 | 25 22 | 5 56 | 16 31 | 0 5 | 8 43 | 1 4 | 22 50 | 0 19 | 18 31 | 0 14 | 4 20 | 1 7 | 2 0 | 16 8 | 2 24 | 1 55 | 16 34 | 10 44 | 6 52 | | | |
| S 25 | 13 6 | 19 23 | 3 16 | 19 19 | 1 40 | 25 16 | 5 53 | 16 44 | 0 6 | 8 48 | 1 4 | 22 50 | 0 19 | 18 31 | 0 14 | 4 19 | 1 7 | 2 0 | 16 8 | 2 23 | 1 54 | 16 37 | 10 43 | 6 53 | | | |
| S 26 | 13 26 | 24 15 | 4 13 | 19 57 | 1 49 | 25 8 | 5 49 | 16 57 | 0 7 | 8 53 | 1 4 | 22 50 | 0 19 | 18 32 | 0 14 | 4 19 | 1 7 | 2 0 | 16 8 | 2 22 | 1 52 | 16 40 | 10 42 | 6 53 | | | |
| M27 | 13 45 | 27 25 | 4 52 | 20 32 | 1 57 | 25 0 | 5 45 | 17 10 | 0 7 | 8 59 | 1 4 | 22 49 | 0 18 | 18 33 | 0 14 | 4 18 | 1 7 | 1 59 | 16 8 | 2 20 | 1 51 | 16 42 | 10 41 | 6 53 | | | |
| T 28 | 14 4 | 28 38 | 5 11 | 21 5 | 2 4 | 24 50 | 5 40 | 17 23 | 0 8 | 9 4 | 1 4 | 22 49 | 0 18 | 18 34 | 0 14 | 4 17 | 1 8 | 1 59 | 16 8 | 2 19 | 1 50 | 16 45 | 10 40 | 6 54 | | | |
| W29 | 14 23 | 27 55 | 5 10 | 21 35 | 2 11 | 24 39 | 5 34 | 17 35 | 0 9 | 9 9 | 1 4 | 22 49 | 0 18 | 18 35 | 0 14 | 4 17 | 1 8 | 1 58 | 16 8 | 2 17 | 1 49 | 16 48 | 10 40 | 6 54 | | | |
| T 30 | 14n42 | 25n30 | 4n51 | 22n 2 | 2n17 | 24n27 | 5n28 | 17n47 | 0n 9 | 9n14 | 1s 4 | 22n49 | 0s18 | 18n36 | 0s14 | 4s16 | 1s 8 | 1s58 | 16s 8 | 2n16 | 1n47 | 16s51 | 10s39 | 6ns5 | | | |

ASTRODIENST EPHEMERIS for the year 1857

geocentric

MAY 1857

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|-----------------------|---------------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|---------------------|--------------------|-------|---------------------|----------------------|---------------------|------|
| F 1 | 14 35 29 | 10 ⁸ 32'35 | 10 ⁸ 24 | 29 ⁸ 54 | 25°R 2 | 20 ⁸ 18 | 26 ⁶ 43 | 9 ⁵ 44 | 24 ⁸ 11 | 21 ⁸ 53 | 5 ⁸ 15 | 5°D42 | 4 ⁶ 27 | 8 ⁸ 3 | 11 ⁸ 42 | F 1 |
| S 2 | 14 39 25 | 11°30'45 | 23°13 | 1 ¹¹ 22 | 24 ⁸ 33 | 21° 1 | 26°57 | 9°49 | 24°14 | 21°54 | 5°16 | 5°Y43 | 4°23 | 8° 9 | 11°43 | S 2 |
| S 3 | 14 43 22 | 12°28'53 | 5 ¹¹ 42 | 2°45 | 24° 3 | 21°44 | 27°11 | 9°54 | 24°18 | 21°56 | 5°18 | 5°44 | 4°20 | 8°16 | 11°44 | S 3 |
| M 4 | 14 47 18 | 13°26'58 | 17°55 | 4° 5 | 23°30 | 22°27 | 27°25 | 10° 0 | 24°21 | 21°58 | 5°19 | 5°46 | 4°17 | 8°23 | 11°45 | M 4 |
| T 5 | 14 51 15 | 14°25'02 | 29°56 | 5°20 | 22°57 | 23° 9 | 27°39 | 10° 5 | 24°25 | 21°59 | 5°21 | 5°R47 | 4°14 | 8°29 | 11°46 | T 5 |
| W 6 | 14 55 11 | 15°23'04 | 11 ¹² 50 | 6°31 | 22°22 | 23°52 | 27°54 | 10°11 | 24°28 | 22° 1 | 5°22 | 5°47 | 4°11 | 8°36 | 11°47 | W 6 |
| T 7 | 14 59 8 | 16°21'04 | 23°39 | 7°37 | 21°46 | 24°35 | 28° 8 | 10°16 | 24°32 | 22° 2 | 5°23 | 5°45 | 4° 7 | 8°43 | 11°47 | T 7 |
| F 8 | 15 3 5 | 17°19'02 | 5 ¹¹ 28 | 8°39 | 21° 9 | 25°17 | 28°22 | 10°22 | 24°35 | 22° 4 | 5°25 | 5°42 | 4° 4 | 8°49 | 11°48 | F 8 |
| S 9 | 15 7 1 | 18°16'59 | 17°18 | 9°37 | 20°31 | 26° 0 | 28°36 | 10°28 | 24°39 | 22° 5 | 5°26 | 5°36 | 4° 1 | 8°56 | 11°49 | S 9 |
| S 10 | 15 10 58 | 19°14'54 | 29°10 | 10°29 | 19°53 | 26°42 | 28°50 | 10°33 | 24°42 | 22° 7 | 5°27 | 5°29 | 3°58 | 9° 3 | 11°49 | S 10 |
| M 11 | 15 14 54 | 20°12'48 | 11 ¹² 8 | 11°18 | 19°16 | 27°25 | 29° 4 | 10°39 | 24°46 | 22° 8 | 5°29 | 5°21 | 3°55 | 9° 9 | 11°50 | M 11 |
| T 12 | 15 18 51 | 21°10'40 | 23°12 | 12° 1 | 18°38 | 28° 7 | 29°18 | 10°45 | 24°49 | 22° 9 | 5°30 | 5°12 | 3°52 | 9°16 | 11°50 | T 12 |
| W 13 | 15 22 47 | 22° 8'31 | 5 ¹² 25 | 12°40 | 18° 1 | 28°50 | 29°31 | 10°51 | 24°53 | 22°11 | 5°31 | 5° 4 | 3°48 | 9°23 | 11°50 | W 13 |
| T 14 | 15 26 44 | 23° 6'21 | 17°48 | 13°14 | 17°24 | 29°32 | 29°45 | 10°57 | 24°56 | 22°12 | 5°33 | 4°58 | 3°45 | 9°29 | 11°50 | T 14 |
| F 15 | 15 30 40 | 24° 4'09 | 0 ¹² 24 | 13°43 | 16°48 | 0 ¹² 14 | 29°59 | 11° 3 | 25° 0 | 22°13 | 5°34 | 4°53 | 3°42 | 9°36 | 11°51 | F 15 |
| S 16 | 15 34 37 | 25° 1'57 | 13°15 | 14° 8 | 16°14 | 0°57 | 0 ⁸ 13 | 11°10 | 25° 3 | 22°15 | 5°35 | 4°51 | 3°39 | 9°43 | 11°51 | S 16 |
| S 17 | 15 38 34 | 25°59'43 | 26°25 | 14°27 | 15°40 | 1°39 | 0°26 | 11°16 | 25° 7 | 22°16 | 5°37 | 4°D50 | 3°36 | 9°49 | 11°R51 | S 17 |
| M 18 | 15 42 30 | 26°57'28 | 9 ¹² 57 | 14°42 | 15° 9 | 2°21 | 0°40 | 11°22 | 25°10 | 22°17 | 5°38 | 4°50 | 3°33 | 9°56 | 11°51 | M 18 |
| T 19 | 15 46 27 | 27°55'12 | 23°52 | 14°52 | 14°38 | 3° 3 | 0°54 | 11°28 | 25°14 | 22°18 | 5°39 | 4°51 | 3°29 | 10° 3 | 11°51 | T 19 |
| W 20 | 15 50 23 | 28°52'54 | 8 ¹² 11 | 14°56 | 14°10 | 3°45 | 1° 7 | 11°35 | 25°17 | 22°20 | 5°40 | 4°R52 | 3°26 | 10° 9 | 11°50 | W 20 |
| T 21 | 15 54 20 | 29°50'36 | 22°52 | 14°R57 | 13°44 | 4°27 | 1°21 | 11°41 | 25°21 | 22°21 | 5°42 | 4°50 | 3°23 | 10°16 | 11°50 | T 21 |
| F 22 | 15 58 16 | 0 ¹² 48'17 | 7 ¹² 51 | 14°52 | 13°20 | 5° 9 | 1°34 | 11°48 | 25°24 | 22°22 | 5°43 | 4°47 | 3°20 | 10°23 | 11°50 | F 22 |
| S 23 | 16 2 13 | 1°45'56 | 23° 0 | 14°43 | 12°58 | 5°51 | 1°48 | 11°54 | 25°28 | 22°23 | 5°44 | 4°41 | 3°17 | 10°29 | 11°50 | S 23 |
| S 24 | 16 6 9 | 2°43'35 | 8 ¹² 10 | 14°30 | 12°38 | 6°33 | 2° 1 | 12° 1 | 25°31 | 22°24 | 5°45 | 4°33 | 3°13 | 10°36 | 11°49 | S 24 |
| M 25 | 16 10 6 | 3°41'12 | 23°11 | 14°13 | 12°21 | 7°15 | 2°15 | 12° 8 | 25°35 | 22°25 | 5°47 | 4°25 | 3°10 | 10°43 | 11°49 | M 25 |
| T 26 | 16 14 3 | 4°38'48 | 7 ¹² 52 | 13°53 | 12° 5 | 7°56 | 2°28 | 12°14 | 25°38 | 22°26 | 5°48 | 4°16 | 3° 7 | 10°49 | 11°48 | T 26 |
| W 27 | 16 17 59 | 5°36'23 | 22° 9 | 13°29 | 11°53 | 8°38 | 2°41 | 12°21 | 25°41 | 22°27 | 5°49 | 4° 8 | 3° 4 | 10°56 | 11°47 | W 27 |
| T 28 | 16 21 56 | 6°33'56 | 5 ¹² 56 | 13° 2 | 11°42 | 9°20 | 2°54 | 12°28 | 25°45 | 22°28 | 5°50 | 4° 2 | 3° 1 | 11° 3 | 11°47 | T 28 |
| F 29 | 16 25 52 | 7°31'28 | 19°14 | 12°32 | 11°35 | 10° 1 | 3° 7 | 12°35 | 25°48 | 22°29 | 5°52 | 3°59 | 2°58 | 11° 9 | 11°46 | F 29 |
| S 30 | 16 29 49 | 8°28'59 | 2 ¹² 6 | 12° 1 | 11°29 | 10°43 | 3°20 | 12°42 | 25°52 | 22°30 | 5°53 | 3°57 | 2°54 | 11°16 | 11°45 | S 30 |
| S 31 | 16 33 45 | 9 ¹² 26'28 | 14 ¹² 35 | 11 ¹² 29 | 11 ¹² 26 | 11 ¹² 25 | 3 ¹² 33 | 12 ¹² 49 | 25 ¹² 55 | 22 ¹² 30 | 5 ¹² 54 | 3°D57 | 2 ¹² Y51 | 11 ¹² M23 | 11 ¹² 44 | 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 | 15n 0 | 21n47 | 4n17 | 22n27 | 2n22 | 24n13 | 5n21 | 18n 0 | 0n10 | 9n19 | 1s 4 | 22n48 | 0s18 | 18n37 | 0s14 | 4s16 | 1s 8 | 1s57 | 16s 8 | 2n16 | 1n46 | 16s54 | 10s38 | 6n55 | |
| S 2 | 15 18 | 17 7 | 3 32 | 22 50 | 2 26 | 23 59 | 5 13 | 18 12 | 0 10 | 9 24 | 1 4 | 22 48 | 0 18 | 18 37 | 0 14 | 4 15 | 1 8 | 1 57 | 16 8 | 2 16 | 1 45 | 16 57 | 10 37 | 6 56 | |
| S 3 | 15 36 | 11 52 | 2 37 | 23 10 | 2 29 | 23 43 | 5 4 | 18 23 | 0 11 | 9 29 | 1 4 | 22 48 | 0 18 | 18 38 | 0 14 | 4 14 | 1 8 | 1 57 | 16 8 | 2 17 | 1 44 | 17 0 | 10 37 | 6 56 | |
| M 4 | 15 53 | 6 15 | 1 36 | 23 28 | 2 32 | 23 26 | 4 55 | 18 35 | 0 12 | 9 35 | 1 4 | 22 48 | 0 18 | 18 39 | 0 14 | 4 14 | 1 8 | 1 56 | 16 8 | 2 17 | 1 42 | 17 3 | 10 36 | 6 57 | |
| T 5 | 16 11 | 0 31 | 0 32 | 23 43 | 2 33 | 23 8 | 4 46 | 18 47 | 0 12 | 9 40 | 1 4 | 22 47 | 0 17 | 18 40 | 0 14 | 4 13 | 1 8 | 1 56 | 16 8 | 2 18 | 1 41 | 17 5 | 10 35 | 6 57 | |
| W 6 | 16 28 | 5s11 | 0s33 | 23 57 | 2 34 | 22 49 | 4 35 | 18 58 | 0 13 | 9 45 | 1 4 | 22 47 | 0 17 | 18 41 | 0 14 | 4 13 | 1 8 | 1 55 | 16 8 | 2 18 | 1 40 | 17 8 | 10 35 | 6 58 | |
| T 7 | 16 45 | 10 40 | 1 36 | 24 7 | 2 34 | 22 28 | 4 25 | 19 9 | 0 14 | 9 50 | 1 4 | 22 47 | 0 17 | 18 42 | 0 14 | 4 12 | 1 8 | 1 55 | 16 8 | 2 17 | 1 38 | 17 11 | 10 34 | 6 58 | |
| F 8 | 17 1 | 15 46 | 2 34 | 24 16 | 2 32 | 22 8 | 4 13 | 19 20 | 0 14 | 9 55 | 1 4 | 22 46 | 0 17 | 18 43 | 0 14 | 4 11 | 1 8 | 1 55 | 16 8 | 2 16 | 1 37 | 17 14 | 10 33 | 6 59 | |
| S 9 | 17 17 | 20 18 | 3 26 | 24 23 | 2 30 | 21 46 | 4 1 | 19 31 | 0 15 | 10 0 | 1 4 | 22 46 | 0 17 | 18 43 | 0 14 | 4 11 | 1 8 | 1 54 | 16 8 | 2 14 | 1 36 | 17 17 | 10 33 | 6 59 | |
| S 10 | 17 33 | 24 2 | 4 9 | 24 27 | 2 26 | 21 24 | 3 49 | 19 41 | 0 15 | 10 4 | 1 4 | 22 46 | 0 17 | 18 44 | 0 14 | 4 10 | 1 8 | 1 54 | 16 8 | 2 11 | 1 35 | 17 20 | 10 32 | 6 59 | |
| M 11 | 17 49 | 26 46 | 4 41 | 24 30 | 2 22 | 21 1 | 3 36 | 19 52 | 0 16 | 10 9 | 1 4 | 22 45 | 0 17 | 18 45 | 0 14 | 4 10 | 1 8 | 1 54 | 16 8 | 2 8 | 1 33 | 17 23 | 10 32 | 7 0 | |
| T 12 | 18 4 | 28 18 | 5 1 | 24 31 | 2 17 | 20 37 | 3 22 | 20 2 | 0 17 | 10 14 | 1 4 | 22 45 | 0 17 | 18 46 | 0 14 | 4 9 | 1 8 | 1 53 | 16 8 | 2 4 | 1 32 | 17 25 | 10 31 | 7 0 | |
| W 13 | 18 19 | 28 28 | 5 8 | 24 29 | 2 10 | 20 14 | 3 9 | 20 12 | 0 17 | 10 19 | 1 4 | 22 45 | 0 17 | 18 47 | 0 14 | 4 9 | 1 8 | 1 53 | 16 8 | 2 1 | 1 31 | 17 28 | 10 30 | 7 1 | |
| T 14 | 18 34 | 27 14 | 5 0 | 24 26 | 2 3 | 19 50 | 2 55 | 20 21 | 0 18 | 10 24 | 1 4 | 22 44 | 0 16 | 18 48 | 0 14 | 4 8 | 1 8 | 1 53 | 16 9 | 1 58 | 1 30 | 17 31 | 10 30 | 7 1 | |
| F 15 | 18 48 | 24 36 | 4 38 | 24 22 | 1 54 | 19 26 | 2 41 | 20 31 | 0 18 | 10 29 | 1 4 | 22 44 | 0 16 | 18 48 | 0 14 | 4 8 | 1 8 | 1 52 | 16 9 | 1 57 | 1 28 | 17 34 | 10 29 | 7 2 | |
| S 16 | 19 2 | 20 43 | 4 2 | 24 15 | 1 45 | 19 3 | 2 26 | 20 40 | 0 19 | 10 34 | 1 4 | 22 43 | 0 16 | 18 49 | 0 14 | 4 7 | 1 8 | 1 52 | 16 9 | 1 56 | 1 27 | 17 37 | 10 29 | 7 2 | |
| S 17 | 19 16 | 15 43 | 3 12 | 24 7 | 1 34 | 18 39 | 2 12 | 20 50 | 0 19 | 10 38 | 1 4 | 22 43 | 0 16 | 18 50 | 0 14 | 4 7 | 1 8 | 1 52 | 16 9 | 1 55 | 1 26 | 17 40 | 10 28 | 7 3 | |
| M 18 | 19 30 | 9 51 | 2 10 | 23 57 | 1 23 | 18 16 | 1 58 | 20 59 | 0 20 | 10 43 | 1 4 | 22 42 | 0 16 | 18 51 | 0 14 | 4 6 | 1 8 | 1 51 | 16 9 | 1 56 | 1 25 | 17 42 | 10 28 | 7 3 | |
| T 19 | 19 43 | 3 20 | 0 59 | 23 46 | 1 10 | 17 53 | 1 43 | 21 7 | 0 21 | 10 48 | 1 4 | 22 42 | 0 16 | 18 52 | 0 14 | 4 6 | 1 8 | 1 51 | 16 9 | 1 56 | 1 23 | 17 45 | 10 28 | 7 4 | |
| W 20 | 19 56 | 3n31 | 0n18 | 23 33 | 0 57 | 17 31 | 1 29 | 21 16 | 0 21 | 10 52 | 1 4 | 22 42 | 0 16 | 18 53 | 0 14 | 4 6 | 1 8 | 1 51 | 16 9 | 1 56 | 1 22 | 17 48 | 10 27 | 7 4 | |
| T 21 | 20 8 | 10 22 | 1 35 | 23 19 | 0 43 | 17 10 | 1 15 | 21 24 | 0 22 | 10 57 | 1 4 | 22 41 | 0 16 | 18 54 | 0 14 | 4 5 | 1 8 | 1 50 | 16 9 | 1 56 | 1 21 | 17 51 | 10 27 | 7 5 | |
| F 22 | 20 20 | 16 46 | 2 47 | 23 4 | 0 28 | 16 49 | 1 1 | 21 33 | 0 22 | 11 2 | 1 4 | 22 41 | 0 16 | 18 54 | 0 14 | 4 5 | 1 8 | 1 50 | 16 9 | 1 54 | 1 20 | 17 54 | 10 26 | 7 5 | |
| S 23 | 20 32 | 22 13 | 3 48 | 22 47 | 0 12 | 16 30 | 0 47 | 21 41 | 0 23 | 11 6 | 1 4 | 22 40 | 0 15 | 18 55 | 0 14 | 4 4 | 1 8 | 1 50 | 16 9 | 1 52 | 1 18 | 17 56 | 10 26 | 7 6 | |
| S 24 | 20 43 | 26 11 | 4 33 | 22 30 | 0s 4 | 16 11 | 0 34 | 21 48 | 0 24 | 11 11 | 1 4 | 22 40 | 0 15 | 18 56 | 0 14 | 4 4 | 1 9 | 1 50 | 16 10 | 1 49 | 1 17 | 17 59 | 10 26 | 7 6 | |
| M 25 | 20 54 | 28 15 | 4 59 | 22 11 | 0 21 | 15 53 | 0 20 | 21 56 | 0 24 | 11 15 | 1 4 | 22 39 | 0 15 | 18 57 | 0 14 | 4 4 | 1 9 | 1 49 | 16 10 | 1 45 | 1 16 | 18 2 | 10 26 | 7 6 | |
| T 26 | 21 5 | 28 17 | 5 4 | 21 51 | 0 38 | 15 36 | 0 7 | 22 3 | 0 25 | 11 20 | 1 4 | 22 39 | 0 15 | 18 58 | 0 14 | 4 3 | 1 9 | 1 49 | 16 10 | 1 42 | 1 14 | 18 5 | 10 25 | 7 7 | |
| W 27 | 21 15 | 26 24 | 4 50 | 21 31 | 0 55 | 15 20 | 0s 5 | 22 11 | 0 25 | 11 24 | 1 4 | 22 38 | 0 15 | 18 59 | 0 14 | 4 3 | 1 9 | 1 49 | 16 10 | 1 39 | 1 13 | 18 7 | 10 25 | 7 7 | |
| T 28 | 21 25 | 22 59 | 4 19 | 21 11 | 1 13 | 15 5 | 0 17 | 22 18 | 0 26 | 11 29 | 1 5 | 22 38 | 0 15 | 18 59 | 0 14 | 4 3 | 1 9 | 1 49 | 16 10 | 1 36 | 1 12 | 18 10 | 10 25 | 7 8 | |
| F 29 | 21 35 | 18 28 | 3 35 | 20 50 | 1 30 | 14 51 | 0 29 | 22 24 | 0 26 | 11 33 | 1 5 | 22 37 | 0 15 | 19 0 | 0 14 | 4 2 | 1 9 | 1 48 | 16 10 | 1 35 | 1 11 | 18 13 | 10 25 | 7 8 | |
| S 30 | 21 44 | 13 15 | 2 41 | 20 28 | 1 48 | 14 38 | 0 41 | 22 31 | 0 27 | 11 38 | 1 5 | 22 37 | 0 15 | 19 1 | 0 14 | 4 2 | 1 9 | 1 48 | 16 10 | 1 34 | 1 9 | 18 16 | 10 24 | 7 9 | |
| S 31 | 21n53 | 7n38 | 1n41 | 20n 7 | 2s 4 | 14n27 | 0s52 | 22n37 | 0n27 | 11n42 | 1s 5 | 22n36 | 0s15 | 19n 2 | 0s14 | 4s 2 | 1s 9 | 1s48 | 16s11 | 1n34 | 1n 8 | 18s18 | 10s24 | 7n | |

ASTRODIENST EPHEMERIS for the year 1857

geocentric

JUNE 1857

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|-----|----------|------------------------|----------------------|---------------------|--------------------|--------------------|-------------------|--------------------|--------------------|---------------------|-------------------|-------------------|-------------------|----------------------|---------------------|-----|
| M 1 | 16 37 42 | 10 ^{II} 23'56 | 26 ^{III} 46 | 10 ^R 55 | 11 ^D 25 | 12 ^{II} 6 | 3 ⁸ 46 | 12 ⁵ 55 | 25 ⁸ 59 | 22 ^{II} 31 | 5 ⁸ 55 | 3 ^Y 57 | 2 ^Y 48 | 11 ^{III} 29 | 11 ^R 43 | M 1 |
| T 2 | 16 41 38 | 11°21'22 | 8 ^{II} 45 | 10 ^{II} 22 | 11 ⁸ 27 | 12°48 | 3°59 | 13° 3 | 26° 2 | 22°32 | 5°56 | 3°R57 | 2°45 | 11°36 | 11 ^{II} 42 | T 2 |
| W 3 | 16 45 35 | 12°18'48 | 20°36 | 9°48 | 11°30 | 13°29 | 4°12 | 13°10 | 26° 5 | 22°33 | 5°57 | 3°56 | 2°42 | 11°43 | 11°41 | W 3 |
| T 4 | 16 49 32 | 13°16'12 | 2 ^{III} 24 | 9°16 | 11°36 | 14°10 | 4°25 | 13°17 | 26° 9 | 22°34 | 5°59 | 3°53 | 2°39 | 11°49 | 11°40 | T 4 |
| F 5 | 16 53 28 | 14°13'35 | 14°13 | 8°45 | 11°45 | 14°52 | 4°37 | 13°24 | 26°12 | 22°34 | 6° 0 | 3°46 | 2°35 | 11°56 | 11°39 | F 5 |
| S 6 | 16 57 25 | 15°10'58 | 26° 5 | 8°16 | 11°55 | 15°33 | 4°50 | 13°31 | 26°16 | 22°35 | 6° 1 | 3°38 | 2°32 | 12° 3 | 11°37 | S 6 |
| S 7 | 17 1 21 | 16° 8'19 | 8 ^{II} 4 | 7°50 | 12° 7 | 16°14 | 5° 3 | 13°38 | 26°19 | 22°35 | 6° 2 | 3°27 | 2°29 | 12°10 | 11°36 | S 7 |
| M 8 | 17 5 18 | 17° 5'40 | 20°11 | 7°26 | 12°22 | 16°55 | 5°15 | 13°45 | 26°22 | 22°36 | 6° 3 | 3°14 | 2°26 | 12°16 | 11°35 | M 8 |
| T 9 | 17 9 14 | 18° 3'00 | 2 ^{III} 27 | 7° 6 | 12°38 | 17°36 | 5°27 | 13°53 | 26°26 | 22°37 | 6° 4 | 3° 2 | 2°23 | 12°23 | 11°33 | T 9 |
| W10 | 17 13 11 | 19° 0'19 | 14°52 | 6°50 | 12°56 | 18°17 | 5°40 | 14° 0 | 26°29 | 22°37 | 6° 5 | 2°50 | 2°19 | 12°30 | 11°32 | W10 |
| T11 | 17 17 8 | 19°57'37 | 27°28 | 6°37 | 13°17 | 18°58 | 5°52 | 14° 7 | 26°32 | 22°38 | 6° 6 | 2°39 | 2°16 | 12°36 | 11°30 | T11 |
| F12 | 17 21 4 | 20°54'55 | 10 ^{III} 15 | 6°29 | 13°39 | 19°39 | 6° 4 | 14°15 | 26°35 | 22°38 | 6° 7 | 2°31 | 2°13 | 12°43 | 11°28 | F12 |
| S13 | 17 25 1 | 21°52'13 | 23°15 | 6°D24 | 14° 2 | 20°20 | 6°16 | 14°22 | 26°39 | 22°39 | 6° 8 | 2°26 | 2°10 | 12°50 | 11°27 | S13 |
| S14 | 17 28 57 | 22°49'30 | 6 ^{II} 29 | 6°25 | 14°27 | 21° 1 | 6°28 | 14°30 | 26°42 | 22°39 | 6° 9 | 2°24 | 2° 7 | 12°56 | 11°25 | S14 |
| M15 | 17 32 54 | 23°46'47 | 19°59 | 6°30 | 14°54 | 21°42 | 6°40 | 14°37 | 26°45 | 22°39 | 6°10 | 2°23 | 2° 4 | 13° 3 | 11°23 | M15 |
| T16 | 17 36 50 | 24°44'03 | 3 ^Y 46 | 6°39 | 15°23 | 22°23 | 6°52 | 14°44 | 26°48 | 22°40 | 6°11 | 2°23 | 2° 0 | 13°10 | 11°21 | T16 |
| W17 | 17 40 47 | 25°41'20 | 17°53 | 6°53 | 15°53 | 23° 4 | 7° 4 | 14°52 | 26°51 | 22°40 | 6°12 | 2°22 | 1°57 | 13°16 | 11°19 | W17 |
| T18 | 17 44 43 | 26°38'36 | 2 ^{III} 18 | 7°12 | 16°24 | 23°44 | 7°16 | 14°59 | 26°55 | 22°40 | 6°13 | 2°20 | 1°54 | 13°23 | 11°17 | T18 |
| F19 | 17 48 40 | 27°35'52 | 16°59 | 7°35 | 16°57 | 24°25 | 7°27 | 15° 7 | 26°58 | 22°40 | 6°14 | 2°16 | 1°51 | 13°30 | 11°15 | F19 |
| S20 | 17 52 37 | 28°33'08 | 1 ^{II} 51 | 8° 3 | 17°31 | 25° 6 | 7°39 | 15°15 | 27° 1 | 22°41 | 6°15 | 2° 8 | 1°48 | 13°36 | 11°13 | S20 |
| S21 | 17 56 33 | 29°30'23 | 16°45 | 8°35 | 18° 6 | 25°46 | 7°50 | 15°22 | 27° 4 | 22°41 | 6°16 | 1°59 | 1°45 | 13°43 | 11°11 | S21 |
| M22 | 18 0 30 | 0 ^{II} 27'39 | 1 ^{II} 35 | 9°12 | 18°43 | 26°27 | 8° 2 | 15°30 | 27° 7 | 22°41 | 6°17 | 1°47 | 1°41 | 13°50 | 11° 9 | M22 |
| T23 | 18 4 26 | 1°24'54 | 16° 9 | 9°53 | 19°20 | 27° 8 | 8°13 | 15°37 | 27°10 | 22°41 | 6°18 | 1°36 | 1°38 | 13°56 | 11° 6 | T23 |
| W24 | 18 8 23 | 2°22'08 | 0 ^{II} 23 | 10°39 | 19°59 | 27°48 | 8°24 | 15°45 | 27°13 | 22°41 | 6°18 | 1°26 | 1°35 | 14° 3 | 11° 4 | W24 |
| T25 | 18 12 19 | 3°19'22 | 14°10 | 11°29 | 20°39 | 28°28 | 8°35 | 15°53 | 27°16 | 22°R41 | 6°19 | 1°18 | 1°32 | 14°10 | 11° 2 | T25 |
| F26 | 18 16 16 | 4°16'36 | 27°30 | 12°23 | 21°20 | 29° 9 | 8°46 | 16° 1 | 27°19 | 22°41 | 6°20 | 1°13 | 1°29 | 14°16 | 10°59 | F26 |
| S27 | 18 20 12 | 5°13'49 | 10 ^{III} 24 | 13°21 | 22° 2 | 29°49 | 8°57 | 16° 8 | 27°22 | 22°41 | 6°21 | 1°10 | 1°25 | 14°23 | 10°57 | S27 |
| S28 | 18 24 9 | 6°11'02 | 22°55 | 14°24 | 22°45 | 0 ^{II} 30 | 9° 8 | 16°16 | 27°25 | 22°41 | 6°22 | 1° 8 | 1°22 | 14°30 | 10°54 | S28 |
| M29 | 18 28 6 | 7° 8'14 | 5 ^{II} 8 | 15°30 | 23°29 | 1°10 | 9°19 | 16°24 | 27°28 | 22°41 | 6°22 | 1° 8 | 1°19 | 14°36 | 10°52 | M29 |
| T30 | 18 32 2 | 8°52'26 | 17 ^{II} 7 | 16 ^{II} 41 | 24°13 | 1 ^{II} 50 | 9°29 | 16°31 | 27°31 | 22°41 | 6°23 | 1°Y 8 | 1°Y16 | 14 ^{III} 43 | 10 ^{II} 49 | T30 |

| 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 |
| M 1 | 22n 2 | 1n52 | 0n38 | 19n47 | 2s21 | 14n16 | 1s 3 | 22n44 | 0n28 | 11n46 | 1s 5 | 22n35 | 0s14 | 19n 3 | 0s14 | 4s 2 | 1s 9 | 1s48 | 16s11 | 1n34 | 1n 7 | 18s21 | 10s24 | 7n10 | |
| T 2 | 22 10 | 3s52 | 0s26 | 19 26 | 2 36 | 14 7 | 1 13 | 22 49 | 0 29 | 11 50 | 1 5 | 22 35 | 0 14 | 19 3 | 0 14 | 4 1 | 1 9 | 1 47 | 16 11 | 1 34 | 1 6 | 18 24 | 10 24 | 7 10 | |
| W 3 | 22 17 | 9 24 | 1 27 | 19 7 | 2 51 | 13 59 | 1 23 | 22 55 | 0 29 | 11 55 | 1 5 | 22 34 | 0 14 | 19 4 | 0 14 | 4 1 | 1 9 | 1 47 | 16 11 | 1 34 | 1 4 | 18 27 | 10 24 | 7 10 | |
| T 4 | 22 25 | 14 35 | 2 25 | 18 48 | 3 5 | 13 52 | 1 33 | 23 1 | 0 30 | 11 59 | 1 5 | 22 34 | 0 14 | 19 5 | 0 14 | 4 1 | 1 9 | 1 47 | 16 11 | 1 33 | 1 3 | 18 29 | 10 24 | 7 11 | |
| F 5 | 22 32 | 19 15 | 3 17 | 18 31 | 3 18 | 13 45 | 1 42 | 23 6 | 0 30 | 12 3 | 1 5 | 22 33 | 0 14 | 19 6 | 0 14 | 4 1 | 1 9 | 1 47 | 16 11 | 1 30 | 1 2 | 18 32 | 10 24 | 7 11 | |
| S 6 | 22 38 | 23 10 | 4 0 | 18 15 | 3 30 | 13 40 | 1 50 | 23 11 | 0 31 | 12 7 | 1 5 | 22 32 | 0 14 | 19 7 | 0 14 | 4 0 | 1 9 | 1 47 | 16 12 | 1 27 | 1 1 | 18 35 | 10 24 | 7 12 | |
| S 7 | 22 44 | 26 9 | 4 32 | 18 1 | 3 40 | 13 36 | 1 59 | 23 16 | 0 31 | 12 11 | 1 5 | 22 32 | 0 14 | 19 7 | 0 14 | 4 0 | 1 9 | 1 47 | 16 12 | 1 22 | 0 59 | 18 38 | 10 24 | 7 12 | |
| M 8 | 22 50 | 27 58 | 4 53 | 17 48 | 3 50 | 13 33 | 2 7 | 23 21 | 0 32 | 12 15 | 1 5 | 22 31 | 0 14 | 19 8 | 0 14 | 4 0 | 1 9 | 1 46 | 16 12 | 1 17 | 0 58 | 18 40 | 10 23 | 7 12 | |
| T 9 | 22 55 | 28 27 | 5 1 | 17 37 | 3 58 | 13 31 | 2 14 | 23 25 | 0 32 | 12 19 | 1 5 | 22 31 | 0 14 | 19 9 | 0 14 | 4 0 | 1 9 | 1 46 | 16 12 | 1 12 | 0 57 | 18 43 | 10 23 | 7 13 | |
| W10 | 23 0 | 27 30 | 4 54 | 17 27 | 4 4 | 13 29 | 2 21 | 23 29 | 0 33 | 12 24 | 1 5 | 22 30 | 0 14 | 19 10 | 0 14 | 4 0 | 1 9 | 1 46 | 16 12 | 1 8 | 0 56 | 18 46 | 10 24 | 7 13 | |
| T11 | 23 5 | 25 9 | 4 34 | 17 20 | 4 10 | 13 29 | 2 28 | 23 33 | 0 33 | 12 27 | 1 6 | 22 29 | 0 14 | 19 11 | 0 14 | 3 59 | 1 9 | 1 46 | 16 13 | 1 3 | 0 54 | 18 49 | 10 24 | 7 14 | |
| F12 | 23 9 | 21 31 | 3 59 | 17 15 | 4 14 | 13 29 | 2 35 | 23 37 | 0 34 | 12 31 | 1 6 | 22 29 | 0 13 | 19 11 | 0 14 | 3 59 | 1 9 | 1 46 | 16 13 | 1 0 | 0 53 | 18 51 | 10 24 | 7 14 | |
| S13 | 23 13 | 16 47 | 3 11 | 17 11 | 4 16 | 13 30 | 2 41 | 23 41 | 0 34 | 12 35 | 1 6 | 22 28 | 0 13 | 19 12 | 0 14 | 3 59 | 1 9 | 1 46 | 16 13 | 0 58 | 0 52 | 18 54 | 10 24 | 7 14 | |
| S14 | 23 16 | 11 12 | 2 12 | 17 10 | 4 18 | 13 32 | 2 46 | 23 44 | 0 35 | 12 39 | 1 6 | 22 27 | 0 13 | 19 13 | 0 14 | 3 59 | 1 10 | 1 46 | 16 13 | 0 57 | 0 50 | 18 57 | 10 24 | 7 15 | |
| M15 | 23 19 | 4 58 | 1 5 | 17 10 | 4 18 | 13 35 | 2 52 | 23 47 | 0 35 | 12 43 | 1 6 | 22 26 | 0 13 | 19 14 | 0 14 | 3 59 | 1 10 | 1 46 | 16 14 | 0 57 | 0 49 | 18 59 | 10 24 | 7 15 | |
| T16 | 23 21 | 1n37 | 0n 7 | 17 13 | 4 17 | 13 38 | 2 57 | 23 50 | 0 36 | 12 47 | 1 6 | 22 26 | 0 13 | 19 14 | 0 14 | 3 59 | 1 10 | 1 46 | 16 14 | 0 57 | 0 48 | 19 2 | 10 24 | 7 16 | |
| W17 | 23 23 | 8 16 | 1 21 | 17 17 | 4 15 | 13 42 | 3 2 | 23 53 | 0 37 | 12 51 | 1 6 | 22 25 | 0 13 | 19 15 | 0 14 | 3 59 | 1 10 | 1 45 | 16 14 | 0 57 | 0 47 | 19 5 | 10 24 | 7 16 | |
| T18 | 23 25 | 14 39 | 2 31 | 17 23 | 4 12 | 13 47 | 3 6 | 23 56 | 0 37 | 12 54 | 1 6 | 22 24 | 0 13 | 19 16 | 0 14 | 3 59 | 1 10 | 1 45 | 16 14 | 0 56 | 0 45 | 19 7 | 10 24 | 7 16 | |
| F19 | 23 26 | 20 19 | 3 32 | 17 31 | 4 8 | 13 52 | 3 10 | 23 58 | 0 38 | 12 58 | 1 6 | 22 23 | 0 13 | 19 16 | 0 14 | 3 59 | 1 10 | 1 45 | 16 14 | 0 54 | 0 44 | 19 10 | 10 25 | 7 17 | |
| S20 | 23 27 | 24 47 | 4 20 | 17 40 | 4 3 | 13 58 | 3 14 | 24 0 | 0 38 | 13 2 | 1 6 | 22 23 | 0 13 | 19 17 | 0 14 | 3 59 | 1 10 | 1 45 | 16 15 | 0 51 | 0 43 | 19 13 | 10 25 | 7 17 | |
| S21 | 23 28 | 27 37 | 4 50 | 17 51 | 3 57 | 14 4 | 3 18 | 24 2 | 0 39 | 13 5 | 1 7 | 22 22 | 0 13 | 19 18 | 0 14 | 3 59 | 1 10 | 1 45 | 16 15 | 0 47 | 0 42 | 19 15 | 10 25 | 7 17 | |
| M22 | 23 28 | 28 27 | 5 0 | 18 3 | 3 50 | 14 11 | 3 21 | 24 4 | 0 39 | 13 9 | 1 7 | 22 21 | 0 12 | 19 19 | 0 14 | 3 59 | 1 10 | 1 45 | 16 15 | 0 43 | 0 40 | 19 18 | 10 25 | 7 18 | |
| T23 | 23 27 | 27 18 | 4 51 | 18 17 | 3 43 | 14 18 | 3 24 | 24 5 | 0 40 | 13 12 | 1 7 | 22 20 | 0 12 | 19 19 | 0 14 | 3 59 | 1 10 | 1 45 | 16 15 | 0 38 | 0 39 | 19 21 | 10 26 | 7 18 | |
| W24 | 23 26 | 24 22 | 4 23 | 18 31 | 3 35 | 14 26 | 3 27 | 24 7 | 0 40 | 13 16 | 1 7 | 22 20 | 0 12 | 19 20 | 0 14 | 3 59 | 1 10 | 1 45 | 16 16 | 0 34 | 0 38 | 19 23 | 10 26 | 7 18 | |
| T25 | 23 25 | 20 7 | 3 41 | 18 47 | 3 26 | 14 34 | 3 29 | 24 8 | 0 40 | 13 19 | 1 7 | 22 19 | 0 12 | 19 21 | 0 14 | 3 59 | 1 10 | 1 45 | 16 16 | 0 31 | 0 37 | 19 26 | 10 26 | 7 19 | |
| F26 | 23 23 | 14 58 | 2 48 | 19 3 | 3 16 | 14 42 | 3 31 | 24 8 | 0 41 | 13 23 | 1 7 | 22 18 | 0 12 | 19 21 | 0 14 | 3 59 | 1 10 | 1 45 | 16 16 | 0 29 | 0 35 | 19 29 | 10 27 | 7 19 | |
| S27 | 23 21 | 9 20 | 1 47 | 19 21 | 3 6 | 14 51 | 3 33 | 24 9 | 0 41 | 13 26 | 1 7 | 22 17 | 0 12 | 19 22 | 0 14 | 3 59 | 1 10 | 1 45 | 16 16 | 0 28 | 0 34 | 19 31 | 10 27 | 7 19 | |
| S28 | 23 19 | 3 29 | 0 43 | 19 38 | 2 56 | 15 0 | 3 35 | 24 10 | 0 42 | 13 29 | 1 7 | 22 16 | 0 12 | 19 23 | 0 14 | 3 59 | 1 10 | 1 45 | 16 17 | 0 27 | 0 33 | 19 34 | 10 27 | 7 19 | |
| M29 | 23 16 | 2s22 | 0s21 | 19 57 | 2 45 | 15 9 | 3 37 | 24 10 | 0 42 | 13 33 | 1 7 | 22 15 | 0 12 | 19 23 | 0 14 | 3 59 | 1 10 | 1 45 | 16 17 | 0 27 | 0 31 | 19 36 | 10 28 | 7 20 | |
| T30 | 23n13 | 8s 1 | 1s24 | 20n15 | 2s33 | 15n19 | 3s38 | 24n10 | 0n43 | 13n36 | 1s 8 | 22n15 | 0s12 | 19n24 | 0s14 | 3s59 | 1s10 | 1s45 | 16s17 | 0n27 | 0n30 | 19s39 | 10s28 | 7n20 | |

ASTRODIENST EPHEMERIS for the year 1857

geocentric

AUGUST 1857

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|-------|-------|------|
| S 1 | 20 38 12 | 8♂3759 | 12♂46 | 16♂45 | 23♂28 | 22♂58 | 14♂ 4 | 20♂39 | 28♂44 | 22°R21 | 6♂37 | 28°R28 | 29♂34 | 18♂17 | 9°R11 | S 1 |
| S 2 | 20 42 9 | 9°35'25 | 24°58 | 18°42 | 24°29 | 23°37 | 14°11 | 20°47 | 28°46 | 22°19 | 6°37 | 28°22 | 29°31 | 18°24 | 9° 8 | S 2 |
| M 3 | 20 46 5 | 10°32'51 | 7♂23 | 20°37 | 25°31 | 24°16 | 14°17 | 20°54 | 28°47 | 22°18 | 6°37 | 28°14 | 29°28 | 18°31 | 9° 4 | M 3 |
| T 4 | 20 50 2 | 11°30'18 | 20° 5 | 22°30 | 26°34 | 24°55 | 14°23 | 21° 2 | 28°49 | 22°17 | 6°37 | 28° 6 | 29°25 | 18°37 | 9° 1 | T 4 |
| W 5 | 20 53 58 | 12°27'46 | 3♂ 2 | 24°22 | 27°36 | 25°34 | 14°28 | 21° 9 | 28°50 | 22°16 | 6°37 | 27°58 | 29°22 | 18°44 | 8°58 | W 5 |
| T 6 | 20 57 55 | 13°25'14 | 16°16 | 26°12 | 28°39 | 26°13 | 14°34 | 21°16 | 28°52 | 22°15 | 6°R37 | 27°52 | 29°18 | 18°51 | 8°54 | T 6 |
| F 7 | 21 1 51 | 14°22'44 | 29°44 | 28° 0 | 29°42 | 26°52 | 14°40 | 21°24 | 28°53 | 22°14 | 6°37 | 27°47 | 29°15 | 18°57 | 8°51 | F 7 |
| S 8 | 21 5 48 | 15°20'15 | 13♂24 | 29°47 | 0♂46 | 27°31 | 14°45 | 21°31 | 28°55 | 22°12 | 6°37 | 27°44 | 29°12 | 19° 4 | 8°48 | S 8 |
| S 9 | 21 9 44 | 16°17'47 | 27°15 | 1♂33 | 1°50 | 28°10 | 14°50 | 21°39 | 28°56 | 22°11 | 6°37 | 27°D43 | 29° 9 | 19°11 | 8°45 | S 9 |
| M10 | 21 13 41 | 17°15'21 | 11°13 | 3°17 | 2°53 | 28°48 | 14°55 | 21°46 | 28°57 | 22°10 | 6°37 | 27°44 | 29° 6 | 19°17 | 8°41 | M10 |
| T 11 | 21 17 38 | 18°12'56 | 25°17 | 4°59 | 3°58 | 29°27 | 15° 0 | 21°53 | 28°58 | 22° 9 | 6°37 | 27°45 | 29° 3 | 19°24 | 8°38 | T 11 |
| W12 | 21 21 34 | 19°10'32 | 9♂26 | 6°40 | 5° 2 | 0♂ 6 | 15° 4 | 22° 0 | 29° 0 | 22° 7 | 6°37 | 27°46 | 28°59 | 19°31 | 8°35 | W12 |
| T 13 | 21 25 31 | 20° 8'10 | 23°37 | 8°20 | 6° 7 | 0°45 | 15° 9 | 22° 8 | 29° 1 | 22° 6 | 6°37 | 27°R46 | 28°56 | 19°37 | 8°32 | T 13 |
| F 14 | 21 29 27 | 21° 5'50 | 7♂49 | 9°58 | 7°11 | 1°23 | 15°13 | 22°15 | 29° 2 | 22° 5 | 6°37 | 27°45 | 28°53 | 19°44 | 8°28 | F 14 |
| S 15 | 21 33 24 | 22° 3'31 | 21°59 | 11°34 | 8°17 | 2° 2 | 15°17 | 22°22 | 29° 3 | 22° 3 | 6°37 | 27°43 | 28°50 | 19°51 | 8°25 | S 15 |
| S 16 | 21 37 20 | 23° 1'14 | 6♂ 5 | 13° 9 | 9°22 | 2°40 | 15°21 | 22°29 | 29° 4 | 22° 2 | 6°36 | 27°38 | 28°47 | 19°57 | 8°22 | S 16 |
| M17 | 21 41 17 | 23°58'59 | 20° 4 | 14°43 | 10°27 | 3°19 | 15°25 | 22°36 | 29° 5 | 22° 0 | 6°36 | 27°34 | 28°43 | 20° 4 | 8°19 | M17 |
| T 18 | 21 45 13 | 24°56'45 | 3♂52 | 16°15 | 11°33 | 3°58 | 15°28 | 22°43 | 29° 6 | 21°59 | 6°36 | 27°28 | 28°40 | 20°11 | 8°16 | T 18 |
| W19 | 21 49 10 | 25°54'32 | 17°26 | 17°46 | 12°39 | 4°36 | 15°32 | 22°50 | 29° 7 | 21°58 | 6°36 | 27°24 | 28°37 | 20°18 | 8°13 | W19 |
| T 20 | 21 53 7 | 26°52'21 | 0♂43 | 19°15 | 13°45 | 5°15 | 15°35 | 22°57 | 29° 7 | 21°56 | 6°35 | 27°20 | 28°34 | 20°24 | 8°10 | T 20 |
| F 21 | 21 57 3 | 27°50'11 | 13°43 | 20°43 | 14°51 | 5°53 | 15°38 | 23° 4 | 29° 8 | 21°55 | 6°35 | 27°18 | 28°31 | 20°31 | 8° 7 | F 21 |
| S 22 | 22 1 0 | 28°48'03 | 26°25 | 22° 9 | 15°58 | 6°32 | 15°41 | 23°11 | 29° 9 | 21°53 | 6°35 | 27°D17 | 28°28 | 20°38 | 8° 4 | S 22 |
| S 23 | 22 4 56 | 29°45'56 | 8♂50 | 23°33 | 17° 4 | 7°10 | 15°43 | 23°18 | 29°10 | 21°52 | 6°35 | 27°18 | 28°24 | 20°44 | 8° 1 | S 23 |
| M24 | 22 8 53 | 0♂43'50 | 21° 1 | 24°57 | 18°11 | 7°48 | 15°46 | 23°25 | 29°10 | 21°50 | 6°34 | 27°19 | 28°21 | 20°51 | 7°58 | M24 |
| T 25 | 22 12 49 | 1°41'45 | 3♂ 2 | 26°18 | 19°18 | 8°27 | 15°48 | 23°31 | 29°11 | 21°49 | 6°34 | 27°21 | 28°18 | 20°58 | 7°55 | T 25 |
| W26 | 22 16 46 | 2°39'42 | 14°55 | 27°38 | 20°25 | 9° 5 | 15°50 | 23°38 | 29°11 | 21°47 | 6°33 | 27°22 | 28°15 | 21° 4 | 7°52 | W26 |
| T 27 | 22 20 42 | 3°37'41 | 26°46 | 28°56 | 21°33 | 9°43 | 15°52 | 23°45 | 29°12 | 21°46 | 6°33 | 27°23 | 28°12 | 21°11 | 7°49 | T 27 |
| F 28 | 22 24 39 | 4°35'40 | 8♂40 | 0♂13 | 22°40 | 10°22 | 15°53 | 23°51 | 29°12 | 21°44 | 6°33 | 27°R23 | 28° 9 | 21°18 | 7°46 | F 28 |
| S 29 | 22 28 36 | 5°33'41 | 20°41 | 1°28 | 23°48 | 11° 0 | 15°55 | 23°58 | 29°12 | 21°42 | 6°32 | 27°23 | 28° 5 | 21°25 | 7°43 | S 29 |
| S 30 | 22 32 32 | 6°31'44 | 2♂54 | 2°41 | 24°56 | 11°38 | 15°56 | 24° 4 | 29°13 | 21°41 | 6°32 | 27°21 | 28° 2 | 21°31 | 7°41 | S 30 |
| M31 | 22 36 29 | 7♂29'48 | 15♂23 | 3♂52 | 26♂ 4 | 12♂16 | 15♂57 | 24♂10 | 29♂13 | 21♂39 | 6♂31 | 27♂18 | 27♂59 | 21♂38 | 7♂38 | M31 |

| 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 |
| S 1 | 18n 7 | 27s14 | 4s56 | 17n29 | 1n45 | 20n21 | 2s57 | 22n26 | 0n57 | 14n55 | 1s12 | 21n43 | 0s 9 | 19n40 | 0s14 | 4s 8 | 1s12 | 1s50 | 16s27 | 0s36 | 0s10 | 21s 0 | 10s50 | 7n24 | |
| S 2 | 17 52 | 28 28 | 5 7 | 16 52 | 1 43 | 20 27 | 2 54 | 22 20 | 0 57 | 14 57 | 1 13 | 21 42 | 0 9 | 19 41 | 0 14 | 4 9 | 1 12 | 1 50 | 16 27 | 0 39 | 0 11 | 21 3 | 10 51 | 7 24 | |
| M 3 | 17 37 | 28 18 | 5 3 | 16 13 | 1 40 | 20 32 | 2 51 | 22 14 | 0 58 | 14 59 | 1 13 | 21 41 | 0 9 | 19 41 | 0 14 | 4 9 | 1 12 | 1 51 | 16 28 | 0 42 | 0 13 | 21 5 | 10 51 | 7 24 | |
| T 4 | 17 21 | 26 39 | 4 45 | 15 34 | 1 37 | 20 37 | 2 48 | 22 7 | 0 58 | 15 0 | 1 13 | 21 40 | 0 9 | 19 41 | 0 14 | 4 10 | 1 12 | 1 51 | 16 28 | 0 45 | 0 14 | 21 8 | 10 52 | 7 24 | |
| W 5 | 17 5 | 23 35 | 4 12 | 14 53 | 1 34 | 20 42 | 2 44 | 22 0 | 0 58 | 15 2 | 1 13 | 21 39 | 0 9 | 19 42 | 0 14 | 4 10 | 1 12 | 1 51 | 16 28 | 0 48 | 0 15 | 21 10 | 10 53 | 7 24 | |
| T 6 | 16 48 | 19 14 | 3 25 | 14 12 | 1 30 | 20 46 | 2 41 | 21 53 | 0 59 | 15 3 | 1 13 | 21 38 | 0 9 | 19 42 | 0 14 | 4 11 | 1 12 | 1 52 | 16 29 | 0 51 | 0 17 | 21 12 | 10 54 | 7 24 | |
| F 7 | 16 32 | 13 51 | 2 26 | 13 31 | 1 25 | 20 50 | 2 37 | 21 46 | 0 59 | 15 5 | 1 13 | 21 37 | 0 8 | 19 42 | 0 14 | 4 11 | 1 12 | 1 52 | 16 29 | 0 53 | 0 18 | 21 15 | 10 55 | 7 24 | |
| S 8 | 16 15 | 7 43 | 1 17 | 12 49 | 1 21 | 20 54 | 2 34 | 21 39 | 1 0 | 15 6 | 1 14 | 21 36 | 0 8 | 19 43 | 0 14 | 4 12 | 1 12 | 1 52 | 16 29 | 0 54 | 0 19 | 21 17 | 10 56 | 7 24 | |
| S 9 | 15 58 | 1 8 | 0 3 | 12 6 | 1 15 | 20 57 | 2 30 | 21 32 | 1 0 | 15 8 | 1 14 | 21 35 | 0 8 | 19 43 | 0 14 | 4 12 | 1 12 | 1 53 | 16 30 | 0 55 | 0 20 | 21 20 | 10 57 | 7 23 | |
| M10 | 15 41 | 5n33 | 1n13 | 11 24 | 1 10 | 20 59 | 2 27 | 21 24 | 1 0 | 15 9 | 1 14 | 21 34 | 0 8 | 19 43 | 0 14 | 4 13 | 1 12 | 1 53 | 16 30 | 0 54 | 0 22 | 21 22 | 10 58 | 7 23 | |
| T 11 | 15 23 | 12 1 | 2 24 | 10 41 | 1 4 | 21 1 | 2 23 | 21 16 | 1 1 | 15 10 | 1 14 | 21 33 | 0 8 | 19 44 | 0 14 | 4 13 | 1 12 | 1 53 | 16 30 | 0 54 | 0 23 | 21 24 | 10 59 | 7 23 | |
| W12 | 15 5 | 17 55 | 3 27 | 9 58 | 0 57 | 21 3 | 2 19 | 21 9 | 1 1 | 15 11 | 1 14 | 21 32 | 0 8 | 19 44 | 0 14 | 4 14 | 1 12 | 1 54 | 16 31 | 0 53 | 0 24 | 21 27 | 11 0 | 7 23 | |
| T 13 | 14 47 | 22 51 | 4 18 | 9 14 | 0 51 | 21 4 | 2 16 | 21 1 | 1 1 | 15 12 | 1 15 | 21 31 | 0 8 | 19 44 | 0 14 | 4 14 | 1 12 | 1 54 | 16 31 | 0 53 | 0 25 | 21 29 | 11 1 | 7 23 | |
| F 14 | 14 29 | 26 26 | 4 53 | 8 31 | 0 44 | 21 4 | 2 12 | 20 52 | 1 2 | 15 13 | 1 15 | 21 30 | 0 8 | 19 44 | 0 14 | 4 15 | 1 12 | 1 54 | 16 31 | 0 54 | 0 27 | 21 32 | 11 2 | 7 23 | |
| S 15 | 14 10 | 28 22 | 5 10 | 7 48 | 0 37 | 21 4 | 2 8 | 20 44 | 1 2 | 15 14 | 1 15 | 21 28 | 0 8 | 19 44 | 0 14 | 4 16 | 1 12 | 1 55 | 16 32 | 0 55 | 0 28 | 21 34 | 11 3 | 7 23 | |
| S 16 | 13 51 | 28 27 | 5 8 | 7 5 | 0 29 | 21 4 | 2 4 | 20 36 | 1 3 | 15 15 | 1 15 | 21 27 | 0 8 | 19 45 | 0 14 | 4 16 | 1 12 | 1 55 | 16 32 | 0 56 | 0 29 | 21 36 | 11 3 | 7 23 | |
| M17 | 13 32 | 26 42 | 4 48 | 6 22 | 0 22 | 21 3 | 2 0 | 20 27 | 1 3 | 15 16 | 1 15 | 21 26 | 0 8 | 19 45 | 0 14 | 4 17 | 1 12 | 1 55 | 16 32 | 0 58 | 0 30 | 21 39 | 11 4 | 7 22 | |
| T 18 | 13 13 | 23 22 | 4 11 | 5 39 | 0 14 | 21 1 | 1 57 | 20 18 | 1 3 | 15 17 | 1 15 | 21 25 | 0 8 | 19 45 | 0 14 | 4 17 | 1 12 | 1 56 | 16 32 | 1 0 | 0 32 | 21 41 | 11 5 | 7 22 | |
| W19 | 12 54 | 18 48 | 3 21 | 4 56 | 0 6 | 20 59 | 1 53 | 20 10 | 1 4 | 15 18 | 1 16 | 21 24 | 0 7 | 19 45 | 0 14 | 4 18 | 1 12 | 1 56 | 16 33 | 1 2 | 0 33 | 21 44 | 11 6 | 7 22 | |
| T 20 | 12 34 | 13 25 | 2 20 | 4 13 | 0s 2 | 20 57 | 1 49 | 20 1 | 1 4 | 15 19 | 1 16 | 21 23 | 0 7 | 19 45 | 0 14 | 4 18 | 1 12 | 1 56 | 16 33 | 1 4 | 0 34 | 21 46 | 11 7 | 7 22 | |
| F 21 | 12 14 | 7 32 | 1 14 | 3 31 | 0 11 | 20 54 | 1 45 | 19 51 | 1 4 | 15 19 | 1 16 | 21 22 | 0 7 | 19 46 | 0 14 | 4 19 | 1 12 | 1 57 | 16 33 | 1 4 | 0 36 | 21 48 | 11 8 | 7 22 | |
| S 22 | 11 54 | 1 30 | 0 5 | 2 50 | 0 19 | 20 50 | 1 41 | 19 42 | 1 5 | 15 20 | 1 16 | 21 21 | 0 7 | 19 46 | 0 14 | 4 20 | 1 12 | 1 57 | 16 34 | 1 5 | 0 37 | 21 51 | 11 9 | 7 21 | |
| S 23 | 11 34 | 4s28 | 1s 3 | 2 8 | 0 28 | 20 46 | 1 37 | 19 33 | 1 5 | 15 21 | 1 16 | 21 20 | 0 7 | 19 46 | 0 14 | 4 20 | 1 12 | 1 58 | 16 34 | 1 5 | 0 38 | 21 53 | 11 10 | 7 21 | |
| M24 | 11 13 | 10 10 | 2 7 | 1 27 | 0 37 | 20 42 | 1 33 | 19 23 | 1 5 | 15 21 | 1 17 | 21 19 | 0 7 | 19 46 | 0 14 | 4 21 | 1 12 | 1 58 | 16 34 | 1 4 | 0 39 | 21 55 | 11 11 | 7 21 | |
| T 25 | 10 53 | 15 25 | 3 4 | 0 47 | 0 45 | 20 36 | 1 29 | 19 14 | 1 6 | 15 21 | 1 17 | 21 18 | 0 7 | 19 46 | 0 14 | 4 22 | 1 12 | 1 58 | 16 35 | 1 3 | 0 41 | 21 58 | 11 12 | 7 21 | |
| W26 | 10 32 | 20 2 | 3 53 | 0 7 | 0 54 | 20 31 | 1 25 | 19 4 | 1 6 | 15 22 | 1 17 | 21 17 | 0 7 | 19 46 | 0 14 | 4 22 | 1 12 | 1 59 | 16 35 | 1 3 | 0 42 | 22 0 | 11 13 | 7 20 | |
| T 27 | 10 11 | 23 51 | 4 31 | 0s33 | 1 3 | 20 24 | 1 21 | 18 54 | 1 6 | 15 22 | 1 17 | 21 16 | 0 7 | 19 46 | 0 14 | 4 23 | 1 12 | 1 59 | 16 35 | 1 2 | 0 43 | 22 2 | 11 14 | 7 20 | |
| F 28 | 9 50 | 26 41 | 4 58 | 1 11 | 1 12 | 20 18 | 1 17 | 18 44 | 1 7 | 15 23 | 1 17 | 21 15 | 0 7 | 19 46 | 0 14 | 4 23 | 1 12 | 2 0 | 16 35 | 1 2 | 0 44 | 22 4 | 11 15 | 7 20 | |
| S 29 | 9 29 | 28 20 | 5 13 | 1 50 | 1 21 | 20 10 | 1 13 | 18 34 | 1 7 | 15 23 | 1 18 | 21 13 | 0 7 | 19 46 | 0 14 | 4 24 | 1 12 | 2 0 | 16 36 | 1 3 | 0 46 | 22 7 | 11 16 | 7 20 | |
| S 30 | 9 7 | 28 39 | 5 13 | 2 27 | 1 30 | 20 2 | 1 9 | 18 23 | 1 7 | 15 23 | 1 18 | 21 12 | 0 7 | 19 47 | 0 14 | 4 25 | 1 12 | 2 0 | 16 36 | 1 3 | 0 47 | 22 9 | 11 17 | 7 19 | |
| M31 | 8n46 | 27s32 | 4s59 | 3s 4 | 1s40 | 19n54 | 1s 5 | 18n13 | 1n 8 | 15n23 | 1s18 | 21n11 | 0s 7 | 19n47 | 0s14 | 4s25 | 1s13 | 2s 1 | 16s36 | 1s 4 | 0s48 | 22s11 | 11s18 | 7n19 | |

ASTRODIENST EPHEMERIS for the year 1857

geocentric

SEPTEMBER 1857

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|----------|---|---|---------------------------------|---|---|---|---|---|---|--|---|---|---|--|------|
| T 1 | 22 40 25 | 8 ^h 27 ^m 53 ^s | 28 ^h 31 ^m 11 ^s | 5 ^h 1 ^m | 27 ^h 52 ^m 12 ^s | 12 ^h 54 ^m 54 ^s | 15 ^h 58 ^m 58 ^s | 24 ^h 51 ^m 17 ^s | 29 ^h 8 ^m 13 ^s | 21 ^h 38 ^m 38 ^s | 6 ^h 31 ^m 31 ^s | 27 ^h 16 ^m 16 ^s | 27 ^h 56 ^m 56 ^s | 21 ^h 45 ^m 45 ^s | 7 ^h 35 ^m 35 ^s | T 1 |
| W 2 | 22 44 22 | 9 ^h 26 ^m 00 ^s | 11 ^h 31 ^m 19 ^s | 6 ^h 8 ^m | 28 ^h 20 ^m 20 ^s | 13 ^h 32 ^m 32 ^s | 15 ^h 59 ^m 59 ^s | 24 ^h 23 ^m 23 ^s | 29 ^h 13 ^m 13 ^s | 21 ^h 36 ^m 36 ^s | 6 ^h 30 ^m 30 ^s | 27 ^h 13 ^m 13 ^s | 27 ^h 53 ^m 53 ^s | 21 ^h 51 ^m 51 ^s | 7 ^h 33 ^m 33 ^s | W 2 |
| T 3 | 22 48 18 | 10 ^h 24 ^m 08 ^s | 24 ^h 47 ^m 47 ^s | 7 ^h 13 ^m | 29 ^h 29 ^m 29 ^s | 14 ^h 10 ^m 10 ^s | 15 ^h 59 ^m 59 ^s | 24 ^h 29 ^m 29 ^s | 29 ^h 13 ^m 13 ^s | 21 ^h 35 ^m 35 ^s | 6 ^h 30 ^m 30 ^s | 27 ^h 11 ^m 11 ^s | 27 ^h 49 ^m 49 ^s | 21 ^h 58 ^m 58 ^s | 7 ^h 30 ^m 30 ^s | T 3 |
| F 4 | 22 52 15 | 11 ^h 22 ^m 18 ^s | 8 ^h 36 ^m 36 ^s | 8 ^h 15 ^m | 0 ^h 37 ^m 37 ^s | 14 ^h 48 ^m 48 ^s | 15 ^h 59 ^m 59 ^s | 24 ^h 36 ^m 36 ^s | 29 ^h 13 ^m 13 ^s | 21 ^h 33 ^m 33 ^s | 6 ^h 29 ^m 29 ^s | 27 ^h 9 ^m 9 ^s | 27 ^h 46 ^m 46 ^s | 22 ^h 5 ^m 5 ^s | 7 ^h 28 ^m 28 ^s | F 4 |
| S 5 | 22 56 11 | 12 ^h 20 ^m 29 ^s | 22 ^h 40 ^m 40 ^s | 9 ^h 15 ^m | 1 ^h 46 ^m 46 ^s | 15 ^h 26 ^m 26 ^s | 15 ^h 59 ^m 59 ^s | 24 ^h 42 ^m 42 ^s | 29 ^h 13 ^m 13 ^s | 21 ^h 31 ^m 31 ^s | 6 ^h 28 ^m 28 ^s | 27 ^h D 9 | 27 ^h 43 ^m 43 ^s | 22 ^h 11 ^m 11 ^s | 7 ^h 25 ^m 25 ^s | S 5 |
| S 6 | 23 0 8 | 13 ^h 18 ^m 43 ^s | 6 ^h 58 ^m 58 ^s | 10 ^h 13 ^m | 2 ^h 55 ^m 55 ^s | 16 ^h 4 ^m 4 ^s | 15 ^h 59 ^m 59 ^s | 24 ^h 48 ^m 48 ^s | 29 ^h 13 ^m 13 ^s | 21 ^h 30 ^m 30 ^s | 6 ^h 28 ^m 28 ^s | 27 ^h 9 ^m 9 ^s | 27 ^h 40 ^m 40 ^s | 22 ^h 18 ^m 18 ^s | 7 ^h 23 ^m 23 ^s | S 6 |
| M 7 | 23 4 5 | 14 ^h 16 ^m 58 ^s | 21 ^h 23 ^m 23 ^s | 11 ^h 7 ^m | 4 ^h 4 ^m | 16 ^h 42 ^m 42 ^s | 15 ^h 59 ^m 59 ^s | 24 ^h 54 ^m 54 ^s | 29 ^h 13 ^m 13 ^s | 21 ^h 28 ^m 28 ^s | 6 ^h 27 ^m 27 ^s | 27 ^h 9 ^m 9 ^s | 27 ^h 37 ^m 37 ^s | 22 ^h 25 ^m 25 ^s | 7 ^h 20 ^m 20 ^s | M 7 |
| T 8 | 23 8 1 | 15 ^h 15 ^m 15 ^s | 5 ^h 51 ^m 51 ^s | 11 ^h 59 ^m | 5 ^h 13 ^m | 17 ^h 20 ^m 20 ^s | 15 ^h 58 ^m 58 ^s | 25 ^h 0 ^m | 29 ^h 13 ^m 13 ^s | 21 ^h 26 ^m 26 ^s | 6 ^h 27 ^m 27 ^s | 27 ^h 10 ^m 10 ^s | 27 ^h 34 ^m 34 ^s | 22 ^h 31 ^m 31 ^s | 7 ^h 18 ^m 18 ^s | T 8 |
| W 9 | 23 11 58 | 16 ^h 13 ^m 35 ^s | 20 ^h 17 ^m 17 ^s | 12 ^h 47 ^m | 6 ^h 22 ^m | 17 ^h 58 ^m 58 ^s | 15 ^h 58 ^m 58 ^s | 25 ^h 6 ^m | 29 ^h 13 ^m 13 ^s | 21 ^h 25 ^m 25 ^s | 6 ^h 26 ^m 26 ^s | 27 ^h 11 ^m 11 ^s | 27 ^h 30 ^m 30 ^s | 22 ^h 38 ^m 38 ^s | 7 ^h 16 ^m 16 ^s | W 9 |
| T 10 | 23 15 54 | 17 ^h 11 ^m 56 ^s | 4 ^h 37 ^m 37 ^s | 13 ^h 33 ^m | 7 ^h 32 ^m | 18 ^h 36 ^m 36 ^s | 15 ^h 57 ^m 57 ^s | 25 ^h 11 ^m | 29 ^h 12 ^m 12 ^s | 21 ^h 23 ^m 23 ^s | 6 ^h 25 ^m 25 ^s | 27 ^h 12 ^m 12 ^s | 27 ^h 27 ^m 27 ^s | 22 ^h 45 ^m 45 ^s | 7 ^h 13 ^m 13 ^s | T 10 |
| F 11 | 23 19 51 | 18 ^h 10 ^m 20 ^s | 18 ^h 48 ^m 48 ^s | 14 ^h 14 ^m | 8 ^h 41 ^m | 19 ^h 14 ^m 14 ^s | 15 ^h 55 ^m 55 ^s | 25 ^h 17 ^m 17 ^s | 29 ^h 12 ^m 12 ^s | 21 ^h 21 ^m 21 ^s | 6 ^h 25 ^m 25 ^s | 27 ^h R 12 | 27 ^h 24 ^m 24 ^s | 22 ^h 52 ^m 52 ^s | 7 ^h 11 ^m 11 ^s | F 11 |
| S 12 | 23 23 47 | 19 ^h 8 ^m 46 ^s | 2 ^h 54 ^m 54 ^s | 14 ^h 52 ^m | 9 ^h 51 ^m | 19 ^h 52 ^m 52 ^s | 15 ^h 54 ^m 54 ^s | 25 ^h 23 ^m 23 ^s | 29 ^h 12 ^m 12 ^s | 21 ^h 20 ^m 20 ^s | 6 ^h 24 ^m 24 ^s | 27 ^h 12 ^m 12 ^s | 27 ^h 21 ^m 21 ^s | 22 ^h 58 ^m 58 ^s | 7 ^h 9 ^m 9 ^s | S 12 |
| S 13 | 23 27 44 | 20 ^h 7 ^m 14 ^s | 16 ^h 38 ^m 38 ^s | 15 ^h 25 ^m | 11 ^h 1 ^m | 20 ^h 30 ^m 30 ^s | 15 ^h 53 ^m 53 ^s | 25 ^h 28 ^m 28 ^s | 29 ^h 11 ^m 11 ^s | 21 ^h 18 ^m 18 ^s | 6 ^h 23 ^m 23 ^s | 27 ^h 11 ^m 11 ^s | 27 ^h 18 ^m 18 ^s | 23 ^h 5 ^m 5 ^s | 7 ^h 7 ^m 7 ^s | S 13 |
| M14 | 23 31 40 | 21 ^h 5 ^m 45 ^s | 0 ^h 14 ^m 14 ^s | 15 ^h 54 ^m | 12 ^h 11 ^m | 21 ^h 7 ^m | 15 ^h 51 ^m | 25 ^h 34 ^m 34 ^s | 29 ^h 11 ^m 11 ^s | 21 ^h 16 ^m 16 ^s | 6 ^h 22 ^m 22 ^s | 27 ^h 11 ^m 11 ^s | 27 ^h 15 ^m 15 ^s | 23 ^h 12 ^m 12 ^s | 7 ^h 5 ^m 5 ^s | M14 |
| T 15 | 23 35 37 | 22 ^h 4 ^m 17 ^s | 13 ^h 36 ^m 36 ^s | 16 ^h 18 ^m | 13 ^h 21 ^m | 21 ^h 45 ^m | 15 ^h 49 ^m | 25 ^h 39 ^m 39 ^s | 29 ^h 10 ^m 10 ^s | 21 ^h 15 ^m 15 ^s | 6 ^h 22 ^m 22 ^s | 27 ^h 10 ^m 10 ^s | 27 ^h 11 ^m 11 ^s | 23 ^h 18 ^m 18 ^s | 7 ^h 3 ^m 3 ^s | T 15 |
| W16 | 23 39 34 | 23 ^h 2 ^m 51 ^s | 26 ^h 44 ^m 44 ^s | 16 ^h 37 ^m | 14 ^h 31 ^m | 22 ^h 23 ^m | 15 ^h 47 ^m | 25 ^h 45 ^m | 29 ^h 10 ^m 10 ^s | 21 ^h 13 ^m 13 ^s | 6 ^h 21 ^m 21 ^s | 27 ^h 9 ^m 9 ^s | 27 ^h 8 ^m 8 ^s | 23 ^h 25 ^m 25 ^s | 7 ^h 1 ^m 1 ^s | W16 |
| T 17 | 23 43 30 | 24 ^h 1 ^m 28 ^s | 9 ^h 38 ^m 38 ^s | 16 ^h 51 ^m | 15 ^h 41 ^m | 23 ^h 1 ^m | 15 ^h 44 ^m | 25 ^h 50 ^m | 29 ^h 9 ^m 9 ^s | 21 ^h 11 ^m 11 ^s | 6 ^h 20 ^m 20 ^s | 27 ^h 9 ^m 9 ^s | 27 ^h 5 ^m 5 ^s | 23 ^h 32 ^m 32 ^s | 6 ^h 59 ^m 59 ^s | T 17 |
| F 18 | 23 47 27 | 25 ^h 0 ^m 06 ^s | 22 ^h 19 ^m | 16 ^h 58 ^m | 16 ^h 52 ^m | 23 ^h 38 ^m | 15 ^h 42 ^m | 25 ^h 55 ^m | 29 ^h 9 ^m 9 ^s | 21 ^h 10 ^m 10 ^s | 6 ^h 19 ^m | 27 ^h D 9 | 27 ^h 2 ^m 2 ^s | 23 ^h 38 ^m 38 ^s | 6 ^h 57 ^m 57 ^s | F 18 |
| S 19 | 23 51 23 | 25 ^h 58 ^m 47 ^s | 4 ^h 47 ^m | 17 ^h R 0 | 18 ^h 2 ^m | 24 ^h 16 ^m | 15 ^h 39 ^m | 26 ^h 1 ^m | 29 ^h 8 ^m 8 ^s | 21 ^h 8 ^m 8 ^s | 6 ^h 19 ^m | 27 ^h 9 ^m 9 ^s | 26 ^h 59 ^m 59 ^s | 23 ^h 45 ^m 45 ^s | 6 ^h 55 ^m 55 ^s | S 19 |
| S 20 | 23 55 20 | 26 ^h 57 ^m 29 ^s | 17 ^h 3 ^m | 16 ^h 54 ^m | 19 ^h 13 ^m | 24 ^h 54 ^m | 15 ^h 36 ^m | 26 ^h 6 ^m | 29 ^h 7 ^m 7 ^s | 21 ^h 7 ^m 7 ^s | 6 ^h 18 ^m | 27 ^h R 9 | 26 ^h 55 ^m 55 ^s | 23 ^h 52 ^m 52 ^s | 6 ^h 54 ^m 54 ^s | S 20 |
| M21 | 23 59 16 | 27 ^h 56 ^m 13 ^s | 29 ^h 8 ^m | 16 ^h 42 ^m | 20 ^h 24 ^m | 25 ^h 31 ^m | 15 ^h 33 ^m | 26 ^h 11 ^m | 29 ^h 6 ^m 6 ^s | 21 ^h 5 ^m 5 ^s | 6 ^h 17 ^m | 27 ^h 9 ^m 9 ^s | 26 ^h 52 ^m 52 ^s | 23 ^h 59 ^m 59 ^s | 6 ^h 52 ^m 52 ^s | M21 |
| T 22 | 0 3 13 | 28 ^h 54 ^m 59 ^s | 11 ^h 6 ^m | 16 ^h 23 ^m | 21 ^h 35 ^m | 26 ^h 9 ^m | 15 ^h 30 ^m | 26 ^h 16 ^m | 29 ^h 5 ^m 5 ^s | 21 ^h 3 ^m 3 ^s | 6 ^h 16 ^m | 27 ^h 9 ^m 9 ^s | 26 ^h 49 ^m 49 ^s | 24 ^h 5 ^m 5 ^s | 6 ^h 51 ^m 51 ^s | T 22 |
| W23 | 0 7 9 | 29 ^h 53 ^m 47 ^s | 22 ^h 58 ^m | 15 ^h 56 ^m | 22 ^h 46 ^m | 26 ^h 46 ^m | 15 ^h 26 ^m | 26 ^h 20 ^m | 29 ^h 5 ^m 5 ^s | 21 ^h 2 ^m 2 ^s | 6 ^h 15 ^m | 27 ^h 9 ^m 9 ^s | 26 ^h 46 ^m 46 ^s | 24 ^h 12 ^m 12 ^s | 6 ^h 49 ^m 49 ^s | W23 |
| T 24 | 0 11 6 | 0 ^h 52 ^m 37 ^s | 4 ^h 48 ^m | 15 ^h 22 ^m | 23 ^h 57 ^m | 27 ^h 24 ^m | 15 ^h 22 ^m | 26 ^h 25 ^m | 29 ^h 4 ^m 4 ^s | 21 ^h 0 ^m | 6 ^h 14 ^m | 27 ^h 8 ^m 8 ^s | 26 ^h 43 ^m 43 ^s | 24 ^h 19 ^m 19 ^s | 6 ^h 48 ^m 48 ^s | T 24 |
| F 25 | 0 15 2 | 1 ^h 51 ^m 28 ^s | 16 ^h 41 ^m | 14 ^h 41 ^m | 25 ^h 8 ^m | 28 ^h 1 ^m | 15 ^h 18 ^m | 26 ^h 30 ^m | 29 ^h 3 ^m 3 ^s | 20 ^h 58 ^m | 6 ^h 13 ^m | 27 ^h 8 ^m 8 ^s | 26 ^h 40 ^m 40 ^s | 24 ^h 25 ^m 25 ^s | 6 ^h 46 ^m 46 ^s | F 25 |
| S 26 | 0 18 59 | 2 ^h 50 ^m 22 ^s | 28 ^h 40 ^m | 13 ^h 53 ^m | 26 ^h 19 ^m | 28 ^h 39 ^m | 15 ^h 14 ^m | 26 ^h 34 ^m | 29 ^h 2 ^m 2 ^s | 20 ^h 57 ^m | 6 ^h 12 ^m | 27 ^h D 8 | 26 ^h 36 ^m 36 ^s | 24 ^h 32 ^m 32 ^s | 6 ^h 45 ^m 45 ^s | S 26 |
| S 27 | 0 22 56 | 3 ^h 49 ^m 17 ^s | 10 ^h 51 ^m | 12 ^h 59 ^m | 27 ^h 31 ^m | 29 ^h 16 ^m | 15 ^h 10 ^m | 26 ^h 39 ^m | 29 ^h 0 ^m | 20 ^h 55 ^m | 6 ^h 12 ^m | 27 ^h 8 ^m 8 ^s | 26 ^h 33 ^m 33 ^s | 24 ^h 39 ^m 39 ^s | 6 ^h 44 ^m 44 ^s | S 27 |
| M28 | 0 26 52 | 4 ^h 48 ^m 13 ^s | 23 ^h 17 ^m | 11 ^h 59 ^m | 28 ^h 42 ^m | 29 ^h 53 ^m | 15 ^h 6 ^m | 26 ^h 43 ^m | 28 ^h 59 ^m | 20 ^h 54 ^m | 6 ^h 11 ^m | 27 ^h 8 ^m 8 ^s | 26 ^h 30 ^m 30 ^s | 24 ^h 45 ^m 45 ^s | 6 ^h 42 ^m 42 ^s | M28 |
| T 29 | 0 30 49 | 5 ^h 47 ^m 12 ^s | 6 ^h 33 ^m | 10 ^h 54 ^m | 29 ^h 54 ^m | 0 ^h 31 ^m | 15 ^h 1 ^m | 26 ^h 48 ^m | 28 ^h 58 ^m | 20 ^h 52 ^m | 6 ^h 10 ^m | 27 ^h 9 ^m 9 ^s | 26 ^h 27 ^m 27 ^s | 24 ^h 52 ^m 52 ^s | 6 ^h 41 ^m 41 ^s | T 29 |
| W30 | 0 34 45 | 6 ^h 46 ^m 12 ^s | 19 ^h 31 ^m | 9 ^h 47 ^m | 1 ^h 36 ^m | 1 ^h 36 ^m | 14 ^h 56 ^m | 26 ^h 52 ^m | 28 ^h 57 ^m | 20 ^h 50 ^m | 6 ^h 9 ^m | 27 ^h R 10 | 26 ^h 24 ^m 24 ^s | 24 ^h 59 ^m 59 ^s | 6 ^h 40 ^m 40 ^s | W30 |

| 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 | |
| T 1 | 8n24 | 24s57 | 4s30 | 3s39 | 1s49 | 19n45 | 1s 1 | 18n 3 | 1n 8 | 15n23 | 1s18 | 21n10 | 0s 6 | 19n47 | 0s14 | 4s26 | 1s13 | 2s 1 | 16s37 | 1s 5 | 0s49 | 22s14 | 11s19 | 7n19 | | | | | | |
| W 2 | 8 2 | 21 2 | 3 47 | 4 14 | 1 58 | 19 35 | 0 57 | 17 52 | 1 8 | 15 23 | 1 18 | 21 9 | 0 6 | 19 47 | 0 14 | 4 27 | 1 13 | 2 2 | 16 37 | 1 6 | 0 51 | 22 16 | 11 20 | 7 18 | | | | | | |
| T 3 | 7 40 | 15 56 | 2 49 | 4 48 | 2 7 | 19 25 | 0 53 | 17 41 | 1 9 | 15 23 | 1 18 | 21 8 | 0 6 | 19 47 | 0 14 | 4 27 | 1 13 | 2 2 | 16 37 | 1 7 | 0 52 | 22 18 | 11 21 | 7 18 | | | | | | |
| F 4 | 7 18 | 9 55 | 1 41 | 5 21 | 2 15 | 19 15 | 0 49 | 17 31 | 1 9 | 15 23 | 1 19 | 21 7 | 0 6 | 19 47 | 0 14 | 4 28 | 1 13 | 2 2 | 16 37 | 1 8 | 0 53 | 22 20 | 11 22 | 7 18 | | | | | | |
| S 5 | 6 56 | 3 17 | 0 25 | 5 53 | 2 24 | 19 4 | 0 45 | 17 20 | 1 9 | 15 23 | 1 19 | 21 6 | 0 6 | 19 47 | 0 14 | 4 29 | 1 13 | 2 3 | 16 38 | 1 8 | 0 54 | 22 23 | 11 23 | 7 17 | | | | | | |
| S 6 | 6 34 | 3n36 | 0n54 | 6 23 | 2 33 | 18 52 | 0 41 | 17 9 | 1 10 | 15 23 | 1 19 | 21 5 | 0 6 | 19 47 | 0 14 | 4 29 | 1 13 | 2 3 | 16 38 | 1 8 | 0 56 | 22 25 | 11 23 | 7 17 | | | | | | |
| M 7 | 6 11 | 10 21 | 2 10 | 6 53 | 2 41 | 18 40 | 0 37 | 16 57 | 1 10 | 15 22 | 1 19 | 21 4 | 0 6 | 19 47 | 0 14 | 4 30 | 1 13 | 2 4 | 16 38 | 1 8 | 0 57 | 22 27 | 11 24 | 7 17 | | | | | | |
| T 8 | 5 49 | 16 36 | 3 18 | 7 20 | 2 50 | 18 27 | 0 33 | 16 46 | 1 10 | 15 22 | 1 19 | 21 3 | 0 6 | 19 47 | 0 14 | 4 31 | 1 13 | 2 4 | 16 38 | 1 8 | 0 58 | 22 29 | 11 25 | 7 16 | | | | | | |
| W 9 | 5 26 | 21 54 | 4 13 | 7 47 | 2 58 | 18 14 | 0 29 | 16 35 | 1 11 | 15 22 | 1 20 | 21 2 | 0 6 | 19 47 | 0 14 | 4 31 | 1 13 | 2 5 | 16 39 | 1 7 | 1 0 | 22 32 | 11 26 | 7 16 | | | | | | |
| T10 | 5 4 | 25 52 | 4 53 | 8 12 | 3 5 | 18 0 | 0 25 | 16 23 | 1 11 | 15 21 | 1 20 | 21 1 | 0 6 | 19 46 | 0 14 | 4 32 | 1 13 | 2 5 | 16 39 | 1 7 | 1 1 | 22 34 | 11 27 | 7 16 | | | | | | |
| F11 | 4 41 | 28 11 | 5 13 | 8 35 | 3 13 | 17 46 | 0 21 | 16 12 | 1 11 | 15 21 | 1 20 | 21 0 | 0 6 | 19 46 | 0 14 | 4 33 | 1 13 | 2 5 | 16 39 | 1 7 | 1 2 | 22 36 | 11 28 | 7 15 | | | | | | |
| S12 | 4 18 | 28 41 | 5 15 | 8 56 | 3 20 | 17 31 | 0 17 | 16 0 | 1 12 | 15 20 | 1 20 | 20 59 | 0 6 | 19 46 | 0 14 | 4 33 | 1 13 | 2 6 | 16 39 | 1 7 | 1 3 | 22 38 | 11 29 | 7 15 | | | | | | |
| S13 | 3 55 | 27 22 | 4 59 | 9 15 | 3 26 | 17 16 | 0 14 | 15 49 | 1 12 | 15 20 | 1 20 | 20 59 | 0 5 | 19 46 | 0 14 | 4 34 | 1 13 | 2 6 | 16 40 | 1 7 | 1 5 | 22 41 | 11 30 | 7 14 | | | | | | |
| M14 | 3 32 | 24 27 | 4 26 | 9 32 | 3 33 | 17 0 | 0 10 | 15 37 | 1 12 | 15 19 | 1 20 | 20 58 | 0 5 | 19 46 | 0 14 | 4 35 | 1 13 | 2 7 | 16 40 | 1 7 | 1 6 | 22 43 | 11 31 | 7 14 | | | | | | |
| T15 | 3 9 | 20 15 | 3 39 | 9 46 | 3 38 | 16 44 | 0 6 | 15 25 | 1 13 | 15 18 | 1 21 | 20 57 | 0 5 | 19 46 | 0 14 | 4 35 | 1 13 | 2 7 | 16 40 | 1 8 | 1 7 | 22 45 | 11 32 | 7 14 | | | | | | |
| W16 | 2 46 | 15 8 | 2 41 | 9 58 | 3 43 | 16 27 | 0 3 | 15 13 | 1 13 | 15 17 | 1 21 | 20 56 | 0 5 | 19 46 | 0 14 | 4 36 | 1 13 | 2 8 | 16 40 | 1 8 | 1 8 | 22 47 | 11 32 | 7 13 | | | | | | |
| T17 | 2 23 | 9 26 | 1 36 | 10 7 | 3 47 | 16 10 | 0n 1 | 15 1 | 1 13 | 15 17 | 1 21 | 20 55 | 0 5 | 19 46 | 0 14 | 4 37 | 1 13 | 2 8 | 16 41 | 1 8 | 1 10 | 22 49 | 11 33 | 7 13 | | | | | | |
| F18 | 1 59 | 3 28 | 0 27 | 10 13 | 3 51 | 15 52 | 0 5 | 14 49 | 1 14 | 15 16 | 1 21 | 20 54 | 0 5 | 19 46 | 0 14 | 4 37 | 1 13 | 2 9 | 16 41 | 1 8 | 1 11 | 22 52 | 11 34 | 7 12 | | | | | | |
| S19 | 1 36 | 2s33 | 0s42 | 10 16 | 3 53 | 15 32 | 0 8 | 14 36 | 1 14 | 15 15 | 1 21 | 20 53 | 0 5 | 19 45 | 0 14 | 4 38 | 1 13 | 2 9 | 16 41 | 1 8 | 1 12 | 22 54 | 11 35 | 7 12 | | | | | | |
| S20 | 1 13 | 8 22 | 1 48 | 10 15 | 3 54 | 15 15 | 0 12 | 14 24 | 1 14 | 15 14 | 1 21 | 20 52 | 0 5 | 19 45 | 0 14 | 4 39 | 1 13 | 2 10 | 16 41 | 1 8 | 1 13 | 22 56 | 11 36 | 7 12 | | | | | | |
| M21 | 0 49 | 13 48 | 2 48 | 10 10 | 3 54 | 14 56 | 0 15 | 14 12 | 1 14 | 15 13 | 1 21 | 20 51 | 0 5 | 19 45 | 0 14 | 4 39 | 1 13 | 2 10 | 16 41 | 1 8 | 1 15 | 22 58 | 11 37 | 7 11 | | | | | | |
| T22 | 0 26 | 18 39 | 3 40 | 10 2 | 3 53 | 14 37 | 0 18 | 13 59 | 1 15 | 15 12 | 1 22 | 20 51 | 0 5 | 19 45 | 0 14 | 4 40 | 1 13 | 2 10 | 16 42 | 1 8 | 1 16 | 23 0 | 11 37 | 7 11 | | | | | | |
| W23 | 0 2 | 22 45 | 4 22 | 9 49 | 3 50 | 14 17 | 0 22 | 13 47 | 1 15 | 15 10 | 1 22 | 20 50 | 0 5 | 19 45 | 0 14 | 4 40 | 1 13 | 2 11 | 16 42 | 1 8 | 1 17 | 23 2 | 11 38 | 7 10 | | | | | | |
| T24 | 0s21 | 25 55 | 4 53 | 9 32 | 3 46 | 13 57 | 0 25 | 13 34 | 1 15 | 15 9 | 1 22 | 20 49 | 0 4 | 19 45 | 0 14 | 4 41 | 1 13 | 2 11 | 16 42 | 1 8 | 1 19 | 23 5 | 11 39 | 7 10 | | | | | | |
| F25 | 0 44 | 27 58 | 5 12 | 9 10 | 3 40 | 13 36 | 0 28 | 13 21 | 1 16 | 15 8 | 1 22 | 20 48 | 0 4 | 19 44 | 0 14 | 4 42 | 1 13 | 2 12 | 16 42 | 1 9 | 1 20 | 23 7 | 11 40 | 7 9 | | | | | | |
| S26 | 1 8 | 28 44 | 5 17 | 8 44 | 3 32 | 13 15 | 0 31 | 13 9 | 1 16 | 15 7 | 1 22 | 20 47 | 0 4 | 19 44 | 0 14 | 4 42 | 1 13 | 2 12 | 16 42 | 1 9 | 1 21 | 23 9 | 11 41 | 7 9 | | | | | | |
| S27 | 1 31 | 28 8 | 5 8 | 8 14 | 3 22 | 12 53 | 0 34 | 12 56 | 1 16 | 15 5 | 1 22 | 20 46 | 0 4 | 19 44 | 0 14 | 4 43 | 1 13 | 2 13 | 16 43 | 1 9 | 1 22 | 23 11 | 11 41 | 7 8 | | | | | | |
| M28 | 1 55 | 26 7 | 4 45 | 7 39 | 3 10 | 12 31 | 0 37 | 12 43 | 1 16 | 15 4 | 1 22 | 20 46 | 0 4 | 19 44 | 0 14 | 4 44 | 1 13 | 2 13 | 16 43 | 1 8 | 1 24 | 23 13 | 11 42 | 7 8 | | | | | | |
| T29 | 2 18 | 22 45 | 4 7 | 7 2 | 2 57 | 12 9 | 0 40 | 12 30 | 1 17 | 15 2 | 1 23 | 20 45 | 0 4 | 19 43 | 0 14 | 4 44 | 1 13 | 2 14 | 16 43 | 1 8 | 1 25 | 23 15 | 11 43 | 7 8 | | | | | | |
| W30 | 2s41 | 18s10 | 3s15 | 6s21 | 2s41 | 11n46 | 0n43 | 12n17 | 1n17 | 15n 1 | 1s23 | 20n44 | 0s 4 | 19n43 | 0s14 | 4s45 | 1s13 | 2s14 | 16s43 | 1s 8 | 1s26 | 23s17 | 11s43 | 7n 7 | | | | | | |

ASTRODIENST EPHEMERIS for the year 1857
geocentric

OCTOBER 1857

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♊ | ♋ | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ | ♈ | ♉ | Day |
|------|---------|---|---------------------------------|---------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------|------|
| T 1 | 0 38 42 | 7 ^h 45 ^m 14 ^s | 2 ^h 46 ^m | 8°R38 | 2 ^h 17 ^m | 1 ^h 45 ^m | 14°R51 | 26 ^h 56 ^m | 28°R56 | 20°R49 | 6°R 8 | 27 ^h 10 ^m | 26 ^h 20 ^m | 25 ^h 11 ^m | 6°R39 | T 1 |
| F 2 | 0 42 38 | 8°44'18" | 16°45' | 7 ^h 49 ^m | 3°29' | 2°23' | 14°46' | 27° 0' | 28°54' | 20°47' | 6° 7' | 27°11' | 26°17' | 25°12' | 6°38' | F 2 |
| S 3 | 0 46 35 | 9°43'24" | 1°7' | 6°23' | 4°41' | 3° 0' | 14°41' | 27° 4' | 28°53' | 20°46' | 6° 6' | 27°R11 | 26°14' | 25°19' | 6°37' | S 3 |
| S 4 | 0 50 31 | 10°42'32" | 15°47' | 5°20' | 5°53' | 3°37' | 14°35' | 27° 8' | 28°52' | 20°44' | 6° 5' | 27°11' | 26°11' | 25°26' | 6°36' | S 4 |
| M 5 | 0 54 28 | 11°41'42" | 0 ^h 38 ^m | 4°24' | 7° 6' | 4°14' | 14°30' | 27°12' | 28°50' | 20°43' | 6° 4' | 27° 9' | 26° 8' | 25°32' | 6°36' | M 5 |
| T 6 | 0 58 25 | 12°40'54" | 15°34' | 3°34' | 8°18' | 4°51' | 14°24' | 27°16' | 28°49' | 20°41' | 6° 3' | 27° 8' | 26° 5' | 25°39' | 6°35' | T 6 |
| W 7 | 1 2 21 | 13°40'08" | 0 ^h 22 ^m | 2°53' | 9°30' | 5°28' | 14°18' | 27°19' | 28°47' | 20°40' | 6° 2' | 27° 6' | 26° 1' | 25°46' | 6°34' | W 7 |
| T 8 | 1 6 18 | 14°39'25" | 15° 3' | 2°22' | 10°43' | 6° 5' | 14°12' | 27°23' | 28°46' | 20°38' | 6° 1' | 27° 4' | 25°58' | 25°53' | 6°34' | T 8 |
| F 9 | 1 10 14 | 15°38'44" | 29°26' | 2° 1' | 11°55' | 6°43' | 14° 6' | 27°26' | 28°44' | 20°37' | 6° 0' | 27° 2' | 25°55' | 25°59' | 6°33' | F 9 |
| S 10 | 1 14 11 | 16°38'06" | 13 ^h 29 ^m | 1°D52 | 13° 8' | 7°20' | 13°59' | 27°30' | 28°42' | 20°35' | 5°59' | 27°D 1 | 25°52' | 26° 6' | 6°33' | S 10 |
| S 11 | 1 18 7 | 17°37'29" | 27°11' | 1°53' | 14°20' | 7°57' | 13°53' | 27°33' | 28°41' | 20°34' | 5°58' | 27° 2' | 25°49' | 26°13' | 6°33' | S 11 |
| M12 | 1 22 4 | 18°36'56" | 10 ^h 33 ^m | 2° 5' | 15°33' | 8°34' | 13°46' | 27°36' | 28°39' | 20°32' | 5°57' | 27° 3' | 25°46' | 26°19' | 6°32' | M12 |
| T 13 | 1 26 0 | 19°36'24" | 23°37' | 2°27' | 16°46' | 9°10' | 13°40' | 27°39' | 28°37' | 20°31' | 5°55' | 27° 4' | 25°42' | 26°26' | 6°32' | T 13 |
| W14 | 1 29 57 | 20°35'55" | 6 ^h 22 ^m | 2°59' | 17°59' | 9°47' | 13°33' | 27°42' | 28°35' | 20°30' | 5°54' | 27° 6' | 25°39' | 26°33' | 6°32' | W14 |
| T 15 | 1 33 54 | 21°35'27" | 18°59' | 3°40' | 19°12' | 10°24' | 13°26' | 27°45' | 28°34' | 20°28' | 5°53' | 27° 7' | 25°36' | 26°39' | 6°D32 | T 15 |
| F 16 | 1 37 50 | 22°35'02" | 1 ^h 42 ^m | 4°30' | 20°25' | 11° 1' | 13°19' | 27°48' | 28°32' | 20°27' | 5°52' | 27°R 7 | 25°33' | 26°46' | 6°32' | F 16 |
| S 17 | 1 41 47 | 23°34'39" | 13°34' | 5°27' | 21°38' | 11°38' | 13°11' | 27°50' | 28°30' | 20°25' | 5°51' | 27° 6' | 25°30' | 26°53' | 6°32' | S 17 |
| S 18 | 1 45 43 | 24°34'18" | 25°39' | 6°31' | 22°51' | 12°15' | 13° 4' | 27°53' | 28°28' | 20°24' | 5°50' | 27° 3' | 25°26' | 27° 0' | 6°32' | S 18 |
| M19 | 1 49 40 | 25°34'00" | 7 ^h 11 ^m | 7°41' | 24° 5' | 12°51' | 12°57' | 27°55' | 28°26' | 20°23' | 5°49' | 26°59' | 25°23' | 27° 6' | 6°32' | M19 |
| T 20 | 1 53 36 | 26°33'43" | 19°31' | 8°56' | 25°18' | 13°28' | 12°49' | 27°58' | 28°24' | 20°22' | 5°48' | 26°54' | 25°20' | 27°13' | 6°33' | T 20 |
| W21 | 1 57 33 | 27°33'28" | 1 ^h 22 ^m | 10°15' | 26°31' | 14° 5' | 12°42' | 28° 0' | 28°22' | 20°20' | 5°47' | 26°49' | 25°17' | 27°20' | 6°33' | W21 |
| T 22 | 2 1 29 | 28°33'15" | 13°13' | 11°39' | 27°45' | 14°42' | 12°34' | 28° 2' | 28°20' | 20°19' | 5°46' | 26°43' | 25°14' | 27°26' | 6°34' | T 22 |
| F 23 | 2 5 26 | 29°33'04" | 25° 5' | 13° 5' | 28°58' | 15°18' | 12°26' | 28° 4' | 28°18' | 20°18' | 5°44' | 26°38' | 25°11' | 27°33' | 6°34' | F 23 |
| S 24 | 2 9 23 | 0 ^h 132 ^m 54 ^s | 7 ^h 3 ^m | 14°35' | 0 ^h 12 ^m | 15°55' | 12°18' | 28° 6' | 28°16' | 20°17' | 5°43' | 26°34' | 25° 7' | 27°40' | 6°35' | S 24 |
| S 25 | 2 13 19 | 1°32'47" | 19°11' | 16° 6' | 1°26' | 16°31' | 12°10' | 28° 8' | 28°13' | 20°16' | 5°42' | 26°32' | 25° 4' | 27°47' | 6°35' | S 25 |
| M26 | 2 17 16 | 2°32'41" | 1 ^h 32 ^m | 17°39' | 2°39' | 17° 8' | 12° 2' | 28°10' | 28°11' | 20°14' | 5°41' | 26°D31 | 25° 1' | 27°53' | 6°36' | M26 |
| T 27 | 2 21 12 | 3°32'36" | 14°12' | 19°14' | 3°53' | 17°44' | 11°55' | 28°11' | 28° 9' | 20°13' | 5°40' | 26°31' | 24°58' | 28° 0' | 6°37' | T 27 |
| W28 | 2 25 9 | 4°32'33" | 27°14' | 20°50' | 5° 7' | 18°21' | 11°46' | 28°13' | 28° 7' | 20°12' | 5°39' | 26°33' | 24°55' | 28° 7' | 6°38' | W28 |
| T 29 | 2 29 5 | 5°32'32" | 10 ^h 43 ^m | 22°27' | 6°21' | 18°57' | 11°38' | 28°14' | 28° 5' | 20°11' | 5°38' | 26°34' | 24°52' | 28°13' | 6°38' | T 29 |
| F 30 | 2 33 2 | 6°32'32" | 24°39' | 24° 4' | 7°35' | 19°33' | 11°30' | 28°15' | 28° 2' | 20°10' | 5°37' | 26°R35 | 24°48' | 28°20' | 6°39' | F 30 |
| S 31 | 2 36 58 | 7 ^h 132 ^m 34 ^s | 9 ^h 3 ^m | 25 ^h 42 ^m | 8 ^h 49 ^m | 20 ^h 10 ^m | 11 ^h 22 ^m | 28 ^h 16 ^m | 28 ^h 0 ^m | 20 ^h 9 ^m | 5 ^h 35 ^m | 26 ^h 34 ^m | 24 ^h 45 ^m | 28 ^h 12 ^m | 6 ^h 40 ^m | 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 | decl | lat | |
| T 1 | 3s 5 | 12s32 | 2s11 | 5s38 | 2s24 | 11n23 | 0n46 | 12n 4 | 1n17 | 14n59 | 1s23 | 20n44 | 0s 4 | 19n43 | 0s14 | 4s46 | 1s13 | 2s14 | 16s43 | 1s 8 | 1s27 | 23s19 | 11s44 | 7n 7 | | |
| F 2 | 3 28 | 6 7 | 0 57 | 4 54 | 2 6 | 11 0 | 0 49 | 11 51 | 1 18 | 14 58 | 1 23 | 20 43 | 0 4 | 19 43 | 0 14 | 4 46 | 1 13 | 2 15 | 16 43 | 1 7 | 1 29 | 23 22 | 11 45 | 7 6 | | |
| S 3 | 3 51 | 0n47 | 0n22 | 4 10 | 1 46 | 10 36 | 0 52 | 11 37 | 1 18 | 14 56 | 1 23 | 20 42 | 0 4 | 19 42 | 0 14 | 4 47 | 1 13 | 2 15 | 16 43 | 1 7 | 1 30 | 23 24 | 11 46 | 7 6 | | |
| S 4 | 4 15 | 7 46 | 1 41 | 3 27 | 1 26 | 10 12 | 0 55 | 11 24 | 1 18 | 14 54 | 1 23 | 20 41 | 0 4 | 19 42 | 0 14 | 4 47 | 1 13 | 2 16 | 16 44 | 1 7 | 1 31 | 23 26 | 11 46 | 7 5 | | |
| M 5 | 4 38 | 14 26 | 2 55 | 2 45 | 1 6 | 9 48 | 0 57 | 11 11 | 1 18 | 14 53 | 1 23 | 20 41 | 0 4 | 19 42 | 0 14 | 4 48 | 1 13 | 2 16 | 16 44 | 1 8 | 1 32 | 23 28 | 11 47 | 7 5 | | |
| T 6 | 5 1 | 20 17 | 3 56 | 2 7 | 0 45 | 9 23 | 1 0 | 10 58 | 1 19 | 14 51 | 1 23 | 20 40 | 0 3 | 19 41 | 0 14 | 4 49 | 1 13 | 2 17 | 16 44 | 1 9 | 1 34 | 23 30 | 11 47 | 7 4 | | |
| W 7 | 5 24 | 24 51 | 4 42 | 1 32 | 0 25 | 8 58 | 1 2 | 10 44 | 1 19 | 14 49 | 1 23 | 20 40 | 0 3 | 19 41 | 0 14 | 4 49 | 1 13 | 2 17 | 16 44 | 1 9 | 1 35 | 23 32 | 11 48 | 7 4 | | |
| T 8 | 5 47 | 27 44 | 5 9 | 1 2 | 0 6 | 8 33 | 1 5 | 10 31 | 1 19 | 14 47 | 1 23 | 20 39 | 0 3 | 19 41 | 0 14 | 4 50 | 1 13 | 2 17 | 16 44 | 1 10 | 1 36 | 23 34 | 11 49 | 7 3 | | |
| F 9 | 6 10 | 28 43 | 5 15 | 0 37 | 0n13 | 8 8 | 1 7 | 10 17 | 1 19 | 14 45 | 1 24 | 20 38 | 0 3 | 19 40 | 0 14 | 4 50 | 1 13 | 2 18 | 16 44 | 1 11 | 1 37 | 23 36 | 11 49 | 7 3 | | |
| S 10 | 6 33 | 27 48 | 5 3 | 0 17 | 0 30 | 7 42 | 1 9 | 10 4 | 1 20 | 14 43 | 1 24 | 20 38 | 0 3 | 19 40 | 0 14 | 4 51 | 1 13 | 2 18 | 16 44 | 1 11 | 1 39 | 23 38 | 11 50 | 7 2 | | |
| S 11 | 6 55 | 25 12 | 4 33 | 0 3 | 0 46 | 7 16 | 1 11 | 9 50 | 1 20 | 14 41 | 1 24 | 20 37 | 0 3 | 19 40 | 0 14 | 4 51 | 1 13 | 2 19 | 16 44 | 1 11 | 1 40 | 23 40 | 11 50 | 7 2 | | |
| M12 | 7 18 | 21 17 | 3 49 | 0n 6 | 1 0 | 6 50 | 1 13 | 9 36 | 1 20 | 14 39 | 1 24 | 20 37 | 0 3 | 19 39 | 0 14 | 4 52 | 1 13 | 2 19 | 16 44 | 1 11 | 1 41 | 23 42 | 11 51 | 7 1 | | |
| T 13 | 7 41 | 16 24 | 2 54 | 0 9 | 1 13 | 6 23 | 1 15 | 9 23 | 1 20 | 14 37 | 1 24 | 20 36 | 0 3 | 19 39 | 0 14 | 4 52 | 1 13 | 2 20 | 16 45 | 1 10 | 1 42 | 23 44 | 11 52 | 7 1 | | |
| W14 | 8 3 | 10 54 | 1 51 | 0 6 | 1 24 | 5 57 | 1 17 | 9 9 | 1 21 | 14 35 | 1 24 | 20 36 | 0 3 | 19 38 | 0 14 | 4 53 | 1 13 | 2 20 | 16 45 | 1 9 | 1 44 | 23 46 | 11 52 | 7 0 | | |
| T 15 | 8 25 | 5 3 | 0 45 | 0s 1 | 1 34 | 5 30 | 1 19 | 8 55 | 1 21 | 14 33 | 1 24 | 20 35 | 0 3 | 19 38 | 0 14 | 4 54 | 1 13 | 2 20 | 16 45 | 1 9 | 1 45 | 23 48 | 11 53 | 7 0 | | |
| F 16 | 8 48 | 0s54 | 0s23 | 0 13 | 1 42 | 5 3 | 1 21 | 8 42 | 1 21 | 14 31 | 1 24 | 20 35 | 0 3 | 19 38 | 0 14 | 4 54 | 1 13 | 2 21 | 16 45 | 1 9 | 1 46 | 23 50 | 11 53 | 6 59 | | |
| S 17 | 9 10 | 6 44 | 1 29 | 0 30 | 1 49 | 4 35 | 1 23 | 8 28 | 1 22 | 14 29 | 1 24 | 20 34 | 0 2 | 19 37 | 0 14 | 4 55 | 1 13 | 2 21 | 16 45 | 1 9 | 1 48 | 23 52 | 11 54 | 6 59 | | |
| S 18 | 9 32 | 12 15 | 2 30 | 0 50 | 1 55 | 4 8 | 1 24 | 8 14 | 1 22 | 14 26 | 1 24 | 20 34 | 0 2 | 19 37 | 0 14 | 4 55 | 1 13 | 2 22 | 16 45 | 1 10 | 1 49 | 23 54 | 11 54 | 6 58 | | |
| M19 | 9 54 | 17 17 | 3 24 | 1 14 | 1 59 | 3 40 | 1 26 | 8 0 | 1 22 | 14 24 | 1 24 | 20 34 | 0 2 | 19 36 | 0 14 | 4 56 | 1 13 | 2 22 | 16 45 | 1 12 | 1 50 | 23 56 | 11 54 | 6 58 | | |
| T 20 | 10 15 | 21 36 | 4 8 | 1 41 | 2 2 | 3 13 | 1 28 | 7 46 | 1 22 | 14 22 | 1 24 | 20 33 | 0 2 | 19 36 | 0 14 | 4 56 | 1 13 | 2 22 | 16 45 | 1 14 | 1 51 | 23 58 | 11 55 | 6 57 | | |
| W21 | 10 37 | 25 3 | 4 42 | 2 10 | 2 4 | 2 45 | 1 29 | 7 32 | 1 22 | 14 20 | 1 24 | 20 33 | 0 2 | 19 35 | 0 14 | 4 57 | 1 13 | 2 23 | 16 45 | 1 16 | 1 53 | 24 0 | 11 55 | 6 57 | | |
| T 22 | 10 58 | 27 25 | 5 3 | 2 42 | 2 4 | 2 17 | 1 30 | 7 18 | 1 23 | 14 17 | 1 24 | 20 32 | 0 2 | 19 35 | 0 14 | 4 57 | 1 12 | 2 23 | 16 45 | 1 18 | 1 54 | 24 2 | 11 56 | 6 56 | | |
| F 23 | 11 19 | 28 33 | 5 11 | 3 16 | 2 4 | 1 48 | 1 32 | 7 4 | 1 23 | 14 15 | 1 24 | 20 32 | 0 2 | 19 34 | 0 14 | 4 57 | 1 12 | 2 23 | 16 45 | 1 20 | 1 55 | 24 4 | 11 56 | 6 56 | | |
| S 24 | 11 40 | 28 22 | 5 6 | 3 51 | 2 3 | 1 20 | 1 33 | 6 50 | 1 23 | 14 13 | 1 24 | 20 32 | 0 2 | 19 34 | 0 14 | 4 58 | 1 12 | 2 24 | 16 45 | 1 22 | 1 56 | 24 6 | 11 56 | 6 55 | | |
| S 25 | 12 1 | 26 50 | 4 48 | 4 28 | 2 2 | 0 52 | 1 34 | 6 36 | 1 23 | 14 10 | 1 24 | 20 32 | 0 2 | 19 34 | 0 14 | 4 58 | 1 12 | 2 24 | 16 45 | 1 23 | 1 58 | 24 8 | 11 57 | 6 55 | | |
| M26 | 12 22 | 23 59 | 4 15 | 5 6 | 1 59 | 0 24 | 1 35 | 6 22 | 1 24 | 14 8 | 1 24 | 20 31 | 0 2 | 19 33 | 0 14 | 4 59 | 1 12 | 2 25 | 16 45 | 1 23 | 1 59 | 24 10 | 11 57 | 6 54 | | |
| T 27 | 12 42 | 19 56 | 3 30 | 5 44 | 1 56 | 0s 5 | 1 36 | 6 8 | 1 24 | 14 5 | 1 24 | 20 31 | 0 1 | 19 33 | 0 14 | 4 59 | 1 12 | 2 25 | 16 45 | 1 23 | 2 0 | 24 12 | 11 57 | 6 54 | | |
| W28 | 13 3 | 14 50 | 2 33 | 6 24 | 1 53 | 0 33 | 1 37 | 5 54 | 1 24 | 14 3 | 1 24 | 20 31 | 0 1 | 19 32 | 0 14 | 5 0 | 1 12 | 2 25 | 16 45 | 1 23 | 2 1 | 24 14 | 11 58 | 6 53 | | |
| T 29 | 13 23 | 8 52 | 1 25 | 7 4 | 1 49 | 1 2 | 1 37 | 5 40 | 1 24 | 14 1 | 1 24 | 20 31 | 0 1 | 19 32 | 0 14 | 5 0 | 1 12 | 2 26 | 16 45 | 1 22 | 2 3 | 24 16 | 11 58 | 6 53 | | |
| F 30 | 13 43 | 2 17 | 0 10 | 7 44 | 1 44 | 1 30 | 1 38 | 5 26 | 1 25 | 13 58 | 1 24 | 20 31 | 0 1 | 19 31 | 0 14 | 5 0 | 1 12 | 2 26 | 16 45 | 1 22 | 2 4 | 24 18 | 11 58 | 6 52 | | |
| S 31 | 14s 2 | 4n37 | 1n 7 | 8s24 | 1n40 | 1s59 | 1n39 | 5n12 | 1n25 | 13n56 | 1s24 | 20n30 | 0s 1 | 19n31 | 0s14 | 5s 1 | 1s12 | 2s26 | 16s45 | 1s22 | 2s 5 | 24s20 | 11s58 | 6n52 | | |

ASTRODIENST EPHEMERIS for the year 1857

geocentric

NOVEMBER 1857

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|-------|---------|--------|--------|-------|------|
| S 1 | 2 40 55 | 8♍32°38' | 23♏52 | 27♏20 | 10♌ 3 | 20♍46 | 11°R14 | 28♏17 | 27°R58 | 20°R 8 | 5°R34 | 26°R32 | 24♎42 | 28♍33 | 6♌42 | S 1 |
| M 2 | 2 44 52 | 9°32'44" | 8♏59 | 28°59' | 11°17' | 21°22' | 11♏ 6 | 28°18' | 27♏55 | 20♎ 7 | 5♏33 | 26♎27 | 24°39' | 28°40' | 6°43' | M 2 |
| T 3 | 2 48 48 | 10°32'51" | 24°14' | 0♍37 | 12°31' | 21°58' | 10°58' | 28°19' | 27°53' | 20° 6 | 5°32' | 26°21' | 24°36' | 28°47' | 6°44' | T 3 |
| W 4 | 2 52 45 | 11°33'01" | 9♏27 | 2°16' | 13°45' | 22°35' | 10°50' | 28°20' | 27°51' | 20° 5 | 5°31' | 26°14' | 24°32' | 28°54' | 6°45' | W 4 |
| T 5 | 2 56 41 | 12°33'12" | 24°28' | 3°54' | 14°59' | 23°11' | 10°41' | 28°20' | 27°48' | 20° 5 | 5°30' | 26° 7' | 24°29' | 29° 0' | 6°47' | T 5 |
| F 6 | 3 0 38 | 13°33'25" | 9♏ 9 | 5°33' | 16°14' | 23°47' | 10°33' | 28°21' | 27°46' | 20° 4 | 5°29' | 26° 1' | 24°26' | 29° 7' | 6°48' | F 6 |
| S 7 | 3 4 34 | 14°33'41" | 23°23' | 7°11' | 17°28' | 24°23' | 10°25' | 28°21' | 27°43' | 20° 3 | 5°28' | 25°57' | 24°23' | 29°14' | 6°50' | S 7 |
| S 8 | 3 8 31 | 15°33'58" | 7♏10 | 8°48' | 18°42' | 24°59' | 10°17' | 28°21' | 27°41' | 20° 2 | 5°26' | 25°55' | 24°20' | 29°20' | 6°51' | S 8 |
| M 9 | 3 12 27 | 16°34'18" | 20°31' | 10°26' | 19°57' | 25°35' | 10° 9 | 28°22' | 27°39' | 20° 1 | 5°25' | 25°D55' | 24°17' | 29°27' | 6°53' | M 9 |
| T 10 | 3 16 24 | 17°34'39" | 3♏28 | 12° 4' | 21°11' | 26°11' | 10° 1 | 28°R22 | 27°36' | 20° 1 | 5°24' | 25°56' | 24°13' | 29°34' | 6°55' | T 10 |
| W11 | 3 20 21 | 18°35'02" | 16° 5' | 13°41' | 22°26' | 26°47' | 9°53' | 28°22' | 27°34' | 20° 0 | 5°23' | 25°57' | 24°10' | 29°41' | 6°56' | W11 |
| T 12 | 3 24 17 | 19°35'27" | 28°26' | 15°17' | 23°40' | 27°23' | 9°45' | 28°21' | 27°31' | 19°59' | 5°22' | 25°R57' | 24° 7' | 29°47' | 6°58' | T 12 |
| F 13 | 3 28 14 | 20°35'54" | 10♌36 | 16°54' | 24°55' | 27°59' | 9°37' | 28°21' | 27°29' | 19°59' | 5°21' | 25°56' | 24° 4' | 29°54' | 7° 0' | F 13 |
| S 14 | 3 32 10 | 21°36'23" | 22°37' | 18°30' | 26°10' | 28°34' | 9°29' | 28°21' | 27°26' | 19°58' | 5°20' | 25°52' | 24° 1 | 0♎ 1 | 7° 2 | S 14 |
| S 15 | 3 36 7 | 22°36'54" | 4♍33 | 20° 6' | 27°24' | 29°10' | 9°22' | 28°20' | 27°24' | 19°58' | 5°19' | 25°46' | 23°57' | 0° 7' | 7° 4 | S 15 |
| M16 | 3 40 3 | 23°37'26" | 16°26' | 21°42' | 28°39' | 29°46' | 9°14' | 28°19' | 27°21' | 19°57' | 5°18' | 25°37' | 23°54' | 0°14' | 7° 6 | M16 |
| T 17 | 3 44 0 | 24°38'00" | 28°17' | 23°18' | 29°54' | 0♌22 | 9° 6 | 28°19' | 27°19' | 19°57' | 5°17' | 25°26' | 23°51' | 0°21' | 7° 8 | T 17 |
| W18 | 3 47 56 | 25°38'35" | 10♎ 8 | 24°53' | 1♍ 8 | 0°57' | 8°59' | 28°18' | 27°16' | 19°56' | 5°16' | 25°14' | 23°48' | 0°28' | 7°11' | W18 |
| T 19 | 3 51 53 | 26°39'12" | 22° 1' | 26°28' | 2°23' | 1°33' | 8°51' | 28°17' | 27°14' | 19°56' | 5°15' | 25° 2' | 23°45' | 0°34' | 7°13' | T 19 |
| F 20 | 3 55 50 | 27°39'50" | 3♏57 | 28° 3' | 3°38' | 2° 8 | 8°44' | 28°16' | 27°11' | 19°55' | 5°14' | 24°50' | 23°42' | 0°41' | 7°15' | F 20 |
| S 21 | 3 59 46 | 28°40'30" | 15°58' | 29°38' | 4°53' | 2°44' | 8°37' | 28°14' | 27° 9 | 19°55' | 5°13' | 24°40' | 23°38' | 0°48' | 7°18' | S 21 |
| S 22 | 4 3 43 | 29°41'10" | 28° 7' | 1♎12 | 6° 8 | 3°19' | 8°30' | 28°13' | 27° 6 | 19°55' | 5°11' | 24°33' | 23°35' | 0°54' | 7°20' | S 22 |
| M23 | 4 7 39 | 0♎41'52" | 10♌27 | 2°47' | 7°22' | 3°54' | 8°23' | 28°12' | 27° 4 | 19°54' | 5°10' | 24°29' | 23°32' | 1° 1 | 7°23' | M23 |
| T 24 | 4 11 36 | 1°42'35" | 23° 3' | 4°21' | 8°37' | 4°30' | 8°16' | 28°10' | 27° 1 | 19°54' | 5° 9 | 24°27' | 23°29' | 1° 8 | 7°25' | T 24 |
| W25 | 4 15 32 | 2°43'19" | 5♎57 | 5°55' | 9°52' | 5° 5 | 8° 9 | 28° 8 | 26°59' | 19°54' | 5° 8 | 24°D26 | 23°26' | 1°15' | 7°28' | W25 |
| T 26 | 4 19 29 | 3°44'04" | 19°15' | 7°29' | 11° 7 | 5°40' | 8° 2 | 28° 7 | 26°56' | 19°54' | 5° 8 | 24°R27 | 23°23' | 1°21' | 7°31' | T 26 |
| F 27 | 4 23 25 | 4°44'49" | 3♏ 0 | 9° 3 | 12°22' | 6°15' | 7°56' | 28° 5 | 26°54' | 19°53' | 5° 7 | 24°26' | 23°19' | 1°28' | 7°33' | F 27 |
| S 28 | 4 27 22 | 5°45'36" | 17°13' | 10°36' | 13°37' | 6°50' | 7°49' | 28° 3 | 26°51' | 19°53' | 5° 6 | 24°25' | 23°16' | 1°35' | 7°36' | S 28 |
| S 29 | 4 31 19 | 6°46'24" | 1♎53 | 12°10' | 14°52' | 7°26' | 7°43' | 28° 1 | 26°49' | 19°53' | 5° 5 | 24°20' | 23°13' | 1°41' | 7°39' | S 29 |
| M30 | 4 35 15 | 7♎47'13" | 16♏57 | 13♎44 | 16♍ 7 | 8♌ 1 | 7♏37 | 27♏59 | 26♏46 | 19♎53 | 5♏ 4 | 24♎13 | 23♎10 | 1♎48 | 7♎42 | M30 |

| Day | ☉ | ☽ | ♂ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|-------|-------|------|-------|------|-------|------|------|------|-------|------|-------|------|-------|------|------|------|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat |
| S 1 | 14s22 | 11n28 | 2n22 | 9s 4 | 1n34 | 2s28 | 1n39 | 4n58 | 1n25 | 13n53 | 1s24 | 20n30 | 0s 1 | 19n30 | 0s14 | 5s 1 | S 1 |
| M 2 | 14 41 | 17 48 | 3 29 | 9 44 | 1 29 | 2 56 | 1 40 | 4 44 | 1 25 | 13 51 | 1 23 | 20 30 | 0 1 | 19 30 | 0 14 | 5 1 | M 2 |
| T 3 | 15 0 | 23 4 | 4 21 | 10 24 | 1 23 | 3 25 | 1 40 | 4 30 | 1 26 | 13 48 | 1 23 | 20 30 | 0 1 | 19 29 | 0 14 | 5 2 | T 3 |
| W 4 | 15 19 | 26 45 | 4 55 | 11 4 | 1 17 | 3 53 | 1 40 | 4 16 | 1 26 | 13 46 | 1 23 | 20 30 | 0 1 | 19 28 | 0 14 | 5 2 | W 4 |
| T 5 | 15 37 | 28 28 | 5 8 | 11 43 | 1 11 | 4 22 | 1 41 | 4 2 | 1 26 | 13 44 | 1 23 | 20 30 | 0 1 | 19 28 | 0 14 | 5 2 | T 5 |
| F 6 | 15 55 | 28 8 | 5 0 | 12 22 | 1 5 | 4 50 | 1 41 | 3 47 | 1 26 | 13 41 | 1 23 | 20 30 | 0 1 | 19 27 | 0 14 | 5 3 | F 6 |
| S 7 | 16 13 | 25 55 | 4 34 | 13 0 | 0 58 | 5 19 | 1 41 | 3 33 | 1 26 | 13 39 | 1 23 | 20 30 | 0 0 | 19 27 | 0 14 | 5 3 | S 7 |
| S 8 | 16 31 | 22 14 | 3 52 | 13 38 | 0 52 | 5 47 | 1 41 | 3 19 | 1 27 | 13 36 | 1 23 | 20 30 | 0 0 | 19 26 | 0 14 | 5 3 | S 8 |
| M 9 | 16 48 | 17 29 | 2 59 | 14 15 | 0 45 | 6 15 | 1 41 | 3 5 | 1 27 | 13 34 | 1 23 | 20 30 | 0 0 | 19 26 | 0 14 | 5 4 | M 9 |
| T 10 | 17 5 | 12 5 | 1 58 | 14 51 | 0 39 | 6 43 | 1 41 | 2 51 | 1 27 | 13 31 | 1 23 | 20 30 | 0 0 | 19 25 | 0 14 | 5 4 | T 10 |
| W11 | 17 22 | 6 19 | 0 53 | 15 27 | 0 32 | 7 11 | 1 40 | 2 37 | 1 27 | 13 29 | 1 23 | 20 30 | 0 0 | 19 25 | 0 14 | 5 4 | W11 |
| T 12 | 17 39 | 0 25 | 0s13 | 16 2 | 0 25 | 7 39 | 1 40 | 2 37 | 1 27 | 13 27 | 1 22 | 20 31 | 0n 0 | 19 24 | 0 14 | 5 4 | T 12 |
| F 13 | 17 55 | 5s23 | 1 18 | 16 36 | 0 18 | 8 7 | 1 40 | 2 9 | 1 28 | 13 24 | 1 22 | 20 31 | 0 0 | 19 24 | 0 14 | 5 5 | F 13 |
| S 14 | 18 11 | 10 56 | 2 18 | 17 10 | 0 11 | 8 34 | 1 39 | 1 55 | 1 28 | 13 22 | 1 22 | 20 31 | 0 0 | 19 23 | 0 14 | 5 5 | S 14 |
| S 15 | 18 26 | 16 3 | 3 11 | 17 43 | 0 5 | 9 1 | 1 39 | 1 41 | 1 28 | 13 20 | 1 22 | 20 31 | 0 0 | 19 22 | 0 14 | 5 5 | S 15 |
| M16 | 18 42 | 20 32 | 3 56 | 18 14 | 0s 2 | 9 29 | 1 38 | 1 27 | 1 28 | 13 17 | 1 22 | 20 31 | 0 0 | 19 22 | 0 14 | 5 5 | M16 |
| T 17 | 18 57 | 24 11 | 4 30 | 18 45 | 0 9 | 9 56 | 1 37 | 1 13 | 1 28 | 13 15 | 1 22 | 20 32 | 0 1 | 19 21 | 0 14 | 5 5 | T 17 |
| W18 | 19 11 | 26 49 | 4 52 | 19 15 | 0 15 | 10 22 | 1 37 | 0 59 | 1 29 | 13 13 | 1 21 | 20 32 | 0 1 | 19 21 | 0 14 | 5 5 | W18 |
| T 19 | 19 25 | 28 15 | 5 2 | 19 44 | 0 22 | 10 49 | 1 36 | 0 45 | 1 29 | 13 11 | 1 21 | 20 32 | 0 1 | 19 20 | 0 14 | 5 6 | T 19 |
| F 20 | 19 39 | 28 23 | 4 59 | 20 12 | 0 29 | 11 15 | 1 35 | 0 31 | 1 29 | 13 9 | 1 21 | 20 33 | 0 1 | 19 20 | 0 14 | 5 6 | F 20 |
| S 21 | 19 53 | 27 11 | 4 42 | 20 40 | 0 35 | 11 41 | 1 34 | 0 17 | 1 29 | 13 7 | 1 21 | 20 33 | 0 1 | 19 19 | 0 14 | 5 6 | S 21 |
| S 22 | 20 6 | 24 41 | 4 13 | 21 6 | 0 41 | 12 7 | 1 33 | 0 3 | 1 29 | 13 4 | 1 21 | 20 33 | 0 1 | 19 18 | 0 14 | 5 6 | S 22 |
| M23 | 20 19 | 21 1 | 3 31 | 21 31 | 0 48 | 12 32 | 1 32 | 0s11 | 1 30 | 13 2 | 1 20 | 20 34 | 0 1 | 19 18 | 0 14 | 5 6 | M23 |
| T 24 | 20 31 | 16 21 | 2 39 | 21 55 | 0 54 | 12 58 | 1 31 | 0 25 | 1 30 | 13 0 | 1 20 | 20 34 | 0 1 | 19 17 | 0 14 | 5 6 | T 24 |
| W25 | 20 43 | 10 50 | 1 37 | 22 17 | 1 0 | 13 22 | 1 29 | 0 39 | 1 30 | 12 58 | 1 20 | 20 35 | 0 1 | 19 17 | 0 14 | 5 6 | W25 |
| T 26 | 20 55 | 4 41 | 0 28 | 22 39 | 1 6 | 13 47 | 1 28 | 0 52 | 1 30 | 12 57 | 1 20 | 20 35 | 0 2 | 19 16 | 0 14 | 5 6 | T 26 |
| F 27 | 21 6 | 1n53 | 0n45 | 23 0 | 1 11 | 14 11 | 1 27 | 1 6 | 1 30 | 12 55 | 1 20 | 20 35 | 0 2 | 19 16 | 0 13 | 5 6 | F 27 |
| S 28 | 21 17 | 8 35 | 1 58 | 23 19 | 1 17 | 14 35 | 1 25 | 1 20 | 1 31 | 12 53 | 1 19 | 20 36 | 0 2 | 19 15 | 0 13 | 5 6 | S 28 |
| S 29 | 21 28 | 15 1 | 3 4 | 23 38 | 1 22 | 14 59 | 1 24 | 1 34 | 1 31 | 12 51 | 1 19 | 20 36 | 0 2 | 19 15 | 0 13 | 5 6 | S 29 |
| M30 | 21s38 | 20n45 | 4n 0 | 23s55 | 1s27 | 15s22 | 1n22 | 1s47 | 1n31 | 12n49 | 1s19 | 20n37 | 0n 2 | 19n14 | 0s13 | 5s 6 | M30 |

Julian Day Number = 2399619.5, Delta T = 9.56 sec
 Ecliptic obliquity = 23°27'37", Nutation = - 0°00'00, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 22°45'18, Lahiri = 21°52'19

ASTRODIENST EPHEMERIS for the year 1857

geocentric

DECEMBER 1857

00:00 UT

| Day | Sid.t | ☉ | ☽ | ♂ | ♀ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | ♂ | Day |
|------|---------|----------|--------|--------|--------|--------|-------|--------|--------|--------|-------|--------|--------|-------|-------|------|
| T 1 | 4 39 12 | 8°48'03 | 21115 | 15°17 | 171122 | 8°35 | 7°R31 | 27°R56 | 26°R44 | 19°D53 | 5°R 3 | 24°R 3 | 23°R 7 | 1°R55 | 7°R45 | T 1 |
| W 2 | 4 43 8 | 9°48'54 | 17°37 | 16°51 | 18°37 | 9°10 | 7°B26 | 27°B54 | 26°B41 | 19°H53 | 5°B 2 | 23°H52 | 23° 3 | 2° 2 | 7°48 | W 2 |
| T 3 | 4 47 5 | 10°49'46 | 2°50 | 18°24 | 19°52 | 9°45 | 7°20 | 27°51 | 26°39 | 19°53 | 5° 1 | 23°41 | 23° 0 | 2° 8 | 7°51 | T 3 |
| F 4 | 4 51 1 | 11°50'39 | 17°45 | 19°58 | 21° 8 | 10°20 | 7°15 | 27°49 | 26°36 | 19°53 | 5° 0 | 23°31 | 22°57 | 2°15 | 7°54 | F 4 |
| S 5 | 4 54 58 | 12°51'34 | 2°13 | 21°31 | 22°23 | 10°55 | 7° 9 | 27°46 | 26°34 | 19°53 | 4°59 | 23°23 | 22°54 | 2°22 | 7°57 | S 5 |
| S 6 | 4 58 55 | 13°52'30 | 16°12 | 23° 5 | 23°38 | 11°29 | 7° 4 | 27°43 | 26°32 | 19°54 | 4°58 | 23°18 | 22°51 | 2°28 | 8° 1 | S 6 |
| M 7 | 5 2 51 | 14°53'26 | 29°40 | 24°38 | 24°53 | 12° 4 | 6°59 | 27°41 | 26°29 | 19°54 | 4°58 | 23°16 | 22°48 | 2°35 | 8° 4 | M 7 |
| T 8 | 5 6 48 | 15°54'25 | 12°10 | 26°11 | 26° 8 | 12°39 | 6°54 | 27°38 | 26°27 | 19°54 | 4°57 | 23°15 | 22°44 | 2°42 | 8° 7 | T 8 |
| W 9 | 5 10 44 | 16°55'24 | 25°16 | 27°45 | 27°23 | 13°13 | 6°50 | 27°35 | 26°25 | 19°54 | 4°56 | 23°15 | 22°41 | 2°49 | 8°11 | W 9 |
| T 10 | 5 14 41 | 17°56'24 | 7°35 | 29°18 | 28°39 | 13°47 | 6°45 | 27°31 | 26°22 | 19°54 | 4°55 | 23°15 | 22°38 | 2°55 | 8°14 | T 10 |
| F 11 | 5 18 37 | 18°57'25 | 19°39 | 0°51 | 29°54 | 14°22 | 6°41 | 27°28 | 26°20 | 19°55 | 4°54 | 23°12 | 22°35 | 3° 2 | 8°18 | F 11 |
| S 12 | 5 22 34 | 19°58'28 | 11°35 | 2°24 | 1°R 9 | 14°56 | 6°37 | 27°25 | 26°18 | 19°55 | 4°54 | 23° 8 | 22°32 | 3° 9 | 8°21 | S 12 |
| S 13 | 5 26 30 | 20°59'31 | 13°26 | 3°57 | 2°24 | 15°30 | 6°33 | 27°21 | 26°16 | 19°56 | 4°53 | 23° 0 | 22°29 | 3°15 | 8°25 | S 13 |
| M14 | 5 30 27 | 22° 0'36 | 25°16 | 5°30 | 3°40 | 16° 4 | 6°30 | 27°18 | 26°13 | 19°56 | 4°52 | 22°49 | 22°25 | 3°22 | 8°28 | M14 |
| T 15 | 5 34 24 | 23° 1'41 | 7°R 7 | 7° 2 | 4°55 | 16°39 | 6°26 | 27°14 | 26°11 | 19°56 | 4°51 | 22°35 | 22°22 | 3°29 | 8°32 | T 15 |
| W16 | 5 38 20 | 24° 2'47 | 19° 1 | 8°34 | 6°10 | 17°13 | 6°23 | 27°11 | 26° 9 | 19°57 | 4°51 | 22°20 | 22°19 | 3°36 | 8°36 | W16 |
| T 17 | 5 42 17 | 25° 3'53 | 1°B 0 | 10° 6 | 7°26 | 17°47 | 6°20 | 27° 7 | 26° 7 | 19°57 | 4°50 | 22° 5 | 22°16 | 3°42 | 8°39 | T 17 |
| F 18 | 5 46 13 | 26° 5'00 | 13° 4 | 11°37 | 8°41 | 18°20 | 6°17 | 27° 3 | 26° 5 | 19°58 | 4°49 | 21°50 | 22°13 | 3°49 | 8°43 | F 18 |
| S 19 | 5 50 10 | 27° 6'08 | 25°14 | 13° 7 | 9°56 | 18°54 | 6°15 | 26°59 | 26° 3 | 19°59 | 4°49 | 21°38 | 22°10 | 3°56 | 8°47 | S 19 |
| S 20 | 5 54 6 | 28° 7'16 | 7°R32 | 14°37 | 11°11 | 19°28 | 6°12 | 26°55 | 26° 1 | 19°59 | 4°48 | 21°29 | 22° 6 | 4° 2 | 8°51 | S 20 |
| M21 | 5 58 3 | 29° 8'24 | 19°59 | 16° 5 | 12°27 | 20° 1 | 6°10 | 26°51 | 25°59 | 20° 0 | 4°48 | 21°22 | 22° 3 | 4° 9 | 8°55 | M21 |
| T 22 | 6 1 59 | 0°B 9'32 | 2°H39 | 17°33 | 13°42 | 20°35 | 6° 8 | 26°47 | 25°57 | 20° 1 | 4°47 | 21°19 | 22° 0 | 4°16 | 8°59 | T 22 |
| W23 | 6 5 56 | 1°10'41 | 15°33 | 18°59 | 14°57 | 21° 8 | 6° 6 | 26°43 | 25°55 | 20° 1 | 4°46 | 21°18 | 21°57 | 4°23 | 9° 3 | W23 |
| T 24 | 6 9 53 | 2°11'49 | 28°47 | 20°23 | 16°13 | 21°42 | 6° 4 | 26°39 | 25°53 | 20° 2 | 4°46 | 21°18 | 21°54 | 4°29 | 9° 7 | T 24 |
| F 25 | 6 13 49 | 3°12'57 | 12°R21 | 21°45 | 17°28 | 22°15 | 6° 3 | 26°35 | 25°51 | 20° 3 | 4°45 | 21°17 | 21°50 | 4°36 | 9°11 | F 25 |
| S 26 | 6 17 46 | 4°14'06 | 26°20 | 23° 5 | 18°43 | 22°48 | 6° 2 | 26°30 | 25°49 | 20° 4 | 4°45 | 21°16 | 21°47 | 4°43 | 9°15 | S 26 |
| S 27 | 6 21 42 | 5°15'14 | 10°B43 | 24°21 | 19°59 | 23°21 | 6° 1 | 26°26 | 25°48 | 20° 5 | 4°44 | 21°12 | 21°44 | 4°49 | 9°19 | S 27 |
| M28 | 6 25 39 | 6°16'22 | 25°28 | 25°34 | 21°14 | 23°55 | 6° 0 | 26°21 | 25°46 | 20° 5 | 4°44 | 21° 5 | 21°41 | 4°56 | 9°23 | M28 |
| T 29 | 6 29 35 | 7°17'31 | 10°H29 | 26°44 | 22°30 | 24°27 | 5°59 | 26°17 | 25°44 | 20° 6 | 4°43 | 20°56 | 21°38 | 5° 3 | 9°27 | T 29 |
| W30 | 6 33 32 | 8°18'39 | 25°38 | 27°48 | 23°45 | 25° 0 | 5°59 | 26°12 | 25°42 | 20° 7 | 4°43 | 20°45 | 21°35 | 5°10 | 9°31 | W30 |
| T 31 | 6 37 29 | 9°B19'48 | 10°B45 | 28°B47 | 25°R 0 | 25°B33 | 5°D59 | 26°B 8 | 25°B41 | 20°H 8 | 4°B43 | 20°H34 | 21°H31 | 5°R16 | 9°R35 | T 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 | decl | lat |
| T 1 | 21s47 | 25n12 | 4n40 | 24s11 | 1s32 | 15s44 | 1n21 | 2s 1 | 1n31 | 12n48 | 1s19 | 20n38 | 0n 2 | 19n13 | 0s13 | 5s 6 | 1s11 | 2s33 | 16s41 | 2s22 | 2s44 | 25s16 | 11s56 | 6n37 | | | |
| W 2 | 21 56 | 27 51 | 4 59 | 24 25 | 1 37 | 16 7 | 1 19 | 2 14 | 1 31 | 12 46 | 1 18 | 20 38 | 0 2 | 19 13 | 0 13 | 5 6 | 1 11 | 2 33 | 16 41 | 2 26 | 2 45 | 25 17 | 11 56 | 6 37 | | | |
| T 3 | 22 5 | 28 23 | 4 57 | 24 39 | 1 42 | 16 29 | 1 17 | 2 28 | 1 31 | 12 44 | 1 18 | 20 39 | 0 2 | 19 12 | 0 13 | 5 6 | 1 11 | 2 33 | 16 41 | 2 31 | 2 47 | 25 19 | 11 56 | 6 36 | | | |
| F 4 | 22 14 | 26 49 | 4 35 | 24 51 | 1 46 | 16 50 | 1 16 | 2 42 | 1 32 | 12 43 | 1 18 | 20 39 | 0 2 | 19 12 | 0 13 | 5 6 | 1 11 | 2 33 | 16 41 | 2 35 | 2 48 | 25 21 | 11 55 | 6 36 | | | |
| S 5 | 22 22 | 23 30 | 3 55 | 25 1 | 1 50 | 17 11 | 1 14 | 2 55 | 1 32 | 12 41 | 1 18 | 20 40 | 0 3 | 19 11 | 0 13 | 5 6 | 1 11 | 2 33 | 16 40 | 2 38 | 2 49 | 25 22 | 11 55 | 6 36 | | | |
| S 6 | 22 29 | 18 54 | 3 2 | 25 11 | 1 54 | 17 32 | 1 12 | 3 8 | 1 32 | 12 40 | 1 17 | 20 41 | 0 3 | 19 11 | 0 13 | 5 6 | 1 11 | 2 33 | 16 40 | 2 40 | 2 50 | 25 24 | 11 54 | 6 35 | | | |
| M 7 | 22 36 | 13 30 | 2 1 | 25 19 | 1 58 | 17 52 | 1 10 | 3 22 | 1 32 | 12 39 | 1 17 | 20 41 | 0 3 | 19 10 | 0 13 | 5 6 | 1 11 | 2 33 | 16 40 | 2 41 | 2 52 | 25 26 | 11 54 | 6 35 | | | |
| T 8 | 22 43 | 7 40 | 0 56 | 25 25 | 2 1 | 18 12 | 1 8 | 3 35 | 1 32 | 12 37 | 1 17 | 20 42 | 0 3 | 19 10 | 0 13 | 5 6 | 1 11 | 2 33 | 16 40 | 2 41 | 2 53 | 25 27 | 11 54 | 6 35 | | | |
| W 9 | 22 49 | 1 43 | 0s11 | 25 31 | 2 4 | 18 31 | 1 6 | 3 48 | 1 32 | 12 36 | 1 17 | 20 43 | 0 3 | 19 9 | 0 13 | 5 6 | 1 11 | 2 33 | 16 39 | 2 41 | 2 54 | 25 29 | 11 53 | 6 34 | | | |
| T 10 | 22 55 | 4s 9 | 1 15 | 25 34 | 2 7 | 18 50 | 1 4 | 4 2 | 1 32 | 12 35 | 1 16 | 20 43 | 0 3 | 19 9 | 0 13 | 5 5 | 1 11 | 2 33 | 16 39 | 2 41 | 2 56 | 25 31 | 11 53 | 6 34 | | | |
| F 11 | 23 0 | 9 46 | 2 15 | 25 37 | 2 9 | 19 8 | 1 2 | 4 15 | 1 33 | 12 34 | 1 16 | 20 44 | 0 3 | 19 8 | 0 13 | 5 5 | 1 11 | 2 33 | 16 39 | 2 42 | 2 57 | 25 32 | 11 52 | 6 33 | | | |
| S 12 | 23 5 | 14 58 | 3 7 | 25 37 | 2 11 | 19 25 | 1 0 | 4 28 | 1 33 | 12 33 | 1 16 | 20 45 | 0 3 | 19 8 | 0 13 | 5 5 | 1 11 | 2 33 | 16 39 | 2 44 | 2 58 | 25 34 | 11 52 | 6 33 | | | |
| S 13 | 23 9 | 19 34 | 3 52 | 25 37 | 2 13 | 19 43 | 0 58 | 4 41 | 1 33 | 12 32 | 1 15 | 20 46 | 0 3 | 19 7 | 0 13 | 5 5 | 1 11 | 2 33 | 16 38 | 2 47 | 2 59 | 25 36 | 11 51 | 6 33 | | | |
| M14 | 23 13 | 23 24 | 4 26 | 25 35 | 2 14 | 19 59 | 0 56 | 4 54 | 1 33 | 12 31 | 1 15 | 20 47 | 0 4 | 19 7 | 0 13 | 5 5 | 1 11 | 2 33 | 16 38 | 2 51 | 3 1 | 25 37 | 11 50 | 6 32 | | | |
| T 15 | 23 17 | 26 15 | 4 48 | 25 31 | 2 15 | 20 15 | 0 54 | 5 7 | 1 33 | 12 30 | 1 15 | 20 47 | 0 4 | 19 6 | 0 13 | 5 5 | 1 11 | 2 33 | 16 38 | 2 57 | 3 2 | 25 39 | 11 50 | 6 32 | | | |
| W16 | 23 20 | 27 58 | 4 58 | 25 26 | 2 15 | 20 31 | 0 52 | 5 20 | 1 33 | 12 29 | 1 15 | 20 48 | 0 4 | 19 6 | 0 13 | 5 4 | 1 11 | 2 33 | 16 38 | 3 3 | 3 3 | 25 40 | 11 49 | 6 32 | | | |
| T 17 | 23 22 | 28 23 | 4 55 | 25 19 | 2 15 | 20 45 | 0 49 | 5 32 | 1 33 | 12 28 | 1 14 | 20 49 | 0 4 | 19 5 | 0 13 | 5 4 | 1 11 | 2 33 | 16 37 | 3 9 | 3 4 | 25 42 | 11 49 | 6 31 | | | |
| F 18 | 23 24 | 27 27 | 4 39 | 25 11 | 2 14 | 21 0 | 0 47 | 5 45 | 1 34 | 12 28 | 1 14 | 20 50 | 0 4 | 19 5 | 0 13 | 5 4 | 1 11 | 2 33 | 16 37 | 3 14 | 3 6 | 25 44 | 11 48 | 6 31 | | | |
| S 19 | 23 26 | 25 12 | 4 10 | 25 1 | 2 13 | 21 13 | 0 45 | 5 58 | 1 34 | 12 27 | 1 14 | 20 51 | 0 4 | 19 4 | 0 13 | 5 4 | 1 11 | 2 33 | 16 37 | 3 19 | 3 7 | 25 45 | 11 47 | 6 31 | | | |
| S 20 | 23 27 | 21 46 | 3 29 | 24 50 | 2 11 | 21 26 | 0 42 | 6 11 | 1 34 | 12 27 | 1 13 | 20 52 | 0 4 | 19 4 | 0 13 | 5 3 | 1 11 | 2 33 | 16 36 | 3 23 | 3 8 | 25 47 | 11 47 | 6 31 | | | |
| M21 | 23 27 | 17 19 | 2 37 | 24 37 | 2 9 | 21 39 | 0 40 | 6 23 | 1 34 | 12 26 | 1 13 | 20 52 | 0 4 | 19 3 | 0 13 | 5 3 | 1 11 | 2 33 | 16 36 | 3 25 | 3 9 | 25 48 | 11 46 | 6 30 | | | |
| T 22 | 23 28 | 12 3 | 1 37 | 24 23 | 2 6 | 21 50 | 0 38 | 6 36 | 1 34 | 12 26 | 1 13 | 20 53 | 0 4 | 19 3 | 0 13 | 5 3 | 1 11 | 2 33 | 16 36 | 3 27 | 3 11 | 25 50 | 11 45 | 6 30 | | | |
| W23 | 23 27 | 6 10 | 0 30 | 24 7 | 2 2 | 22 2 | 0 35 | 6 48 | 1 34 | 12 26 | 1 12 | 20 54 | 0 5 | 19 2 | 0 13 | 5 2 | 1 11 | 2 32 | 16 35 | 3 27 | 3 12 | 25 51 | 11 44 | 6 30 | | | |
| T 24 | 23 27 | 0n 7 | 0n39 | 23 51 | 1 57 | 22 12 | 0 33 | 7 0 | 1 34 | 12 25 | 1 12 | 20 55 | 0 5 | 19 2 | 0 13 | 5 2 | 1 11 | 2 32 | 16 35 | 3 27 | 3 13 | 25 53 | 11 44 | 6 29 | | | |
| F 25 | 23 25 | 6 33 | 1 49 | 23 33 | 1 52 | 22 22 | 0 30 | 7 13 | 1 34 | 12 25 | 1 12 | 20 56 | 0 5 | 19 2 | 0 13 | 5 2 | 1 11 | 2 32 | 16 35 | 3 27 | 3 14 | 25 54 | 11 43 | 6 29 | | | |
| S 26 | 23 24 | 12 52 | 2 54 | 23 13 | 1 46 | 22 31 | 0 28 | 7 25 | 1 35 | 12 25 | 1 12 | 20 57 | 0 5 | 19 1 | 0 13 | 5 1 | 1 11 | 2 32 | 16 35 | 3 28 | 3 16 | 25 56 | 11 42 | 6 29 | | | |
| S 27 | 23 21 | 18 41 | 3 50 | 22 53 | 1 39 | 22 39 | 0 26 | 7 37 | 1 35 | 12 25 | 1 11 | 20 58 | 0 5 | 19 1 | 0 13 | 5 1 | 1 11 | 2 32 | 16 34 | 3 30 | 3 17 | 25 57 | 11 41 | 6 29 | | | |
| M28 | 23 19 | 23 32 | 4 32 | 22 32 | 1 30 | 22 47 | 0 23 | 7 49 | 1 35 | 12 25 | 1 11 | 20 59 | 0 5 | 19 0 | 0 13 | 5 1 | 1 11 | 2 32 | 16 34 | 3 32 | 3 18 | 25 59 | 11 41 | 6 28 | | | |
| T 29 | 23 16 | 26 55 | 4 56 | 22 10 | 1 21 | 22 54 | 0 21 | 8 1 | 1 35 | 12 25 | 1 11 | 21 0 | 0 5 | 19 0 | 0 13 | 5 0 | 1 11 | 2 32 | 16 34 | 3 36 | 3 19 | 26 0 | 11 40 | 6 28 | | | |
| W30 | 23 12 | 28 23 | 5 5 | 20 17 | 1 11 | 23 1 | 0 18 | 8 13 | 1 35 | 12 25 | 1 10 | 21 1 | 0 5 | 19 0 | 0 13 | 5 0 | 1 10 | 2 31 | 16 33 | 3 40 | 3 21 | 26 2 | 11 39 | 6 28 | | | |
| T 31 | 23s 8 | 27n43 | 4n43 | 21s24 | 1s 0 | 23s 6 | 0n16 | 8s25 | 1n35 | 12n26 | 1s10 | 21n 2 | 0n 5 | 18n59 | 0s13 | 4s59 | 1s10 | 2s31 | 16s33 | 3s45 | 3s22 | 26s 3 | 11s38 | 6n28 | | | |