# Astrodienst Ephemeris Tables

## for the year 1840

tropical geocentric zodiac

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

Programming
Dieter Koch and Alois Treindl
based on Swiss Ephemeris

Code D5EPX

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

# ASTRODIENST EPHEMERIS for the year 1840
# geocentric

## JANUARY 1840 — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 6 38 54 | 9♑42'34 | 26♏33 | 18♐33 | 23♏33 | 8♒14 | 13♏ 6 | 15♐52 | 13♓ 9 | 11♒ 8 | 16°D55 | 8°R33 | 9♓39 | 22♏54 | 6°R34 | W 1 |
| T 2 | 6 42 50 | 10°43'45 | 8♐29 | 18°59 | 24°39 | 9° 1 | 13°16 | 15°59 | 13°11 | 11°10 | 16♈55 | 8♓23 | 9°35 | 23° 1 | 6♋30 | T 2 |
| F 3 | 6 46 47 | 11°44'57 | 20°31 | 19°32 | 25°46 | 9°48 | 13°25 | 16° 6 | 13°13 | 11°12 | 16°55 | 8°12 | 9°32 | 23° 7 | 6°26 | F 3 |
| S 4 | 6 50 43 | 12°46'08 | 2♑42 | 20°10 | 26°52 | 10°36 | 13°35 | 16°12 | 13°15 | 11°14 | 16°55 | 8° 0 | 9°29 | 23°14 | 6°22 | S 4 |
| S 5 | 6 54 40 | 13°47'19 | 15° 3 | 20°54 | 27°59 | 11°23 | 13°44 | 16°19 | 13°17 | 11°17 | 16°56 | 7°50 | 9°26 | 23°21 | 6°18 | S 5 |
| M 6 | 6 58 37 | 14°48'30 | 27°34 | 21°43 | 29° 6 | 12°10 | 13°54 | 16°25 | 13°19 | 11°19 | 16°56 | 7°41 | 9°23 | 23°28 | 6°14 | M 6 |
| T 7 | 7 2 33 | 15°49'41 | 10♒15 | 22°36 | 0♐13 | 12°58 | 14° 3 | 16°32 | 13°21 | 11°21 | 16°56 | 7°35 | 9°20 | 23°34 | 6° 9 | T 7 |
| W 8 | 7 6 30 | 16°50'52 | 23° 7 | 23°32 | 1°21 | 13°45 | 14°12 | 16°38 | 13°23 | 11°23 | 16°56 | 7°32 | 9°16 | 23°41 | 6° 5 | W 8 |
| T 9 | 7 10 26 | 17°52'02 | 6♓10 | 24°32 | 2°28 | 14°32 | 14°21 | 16°45 | 13°26 | 11°25 | 16°56 | 7°D31 | 9°13 | 23°48 | 6° 1 | T 9 |
| F 10 | 7 14 23 | 18°53'11 | 19°25 | 25°35 | 3°36 | 15°20 | 14°30 | 16°51 | 13°28 | 11°27 | 16°56 | 7°31 | 9°10 | 23°54 | 5°57 | F 10 |
| S 11 | 7 18 19 | 19°54'20 | 2♈55 | 26°41 | 4°44 | 16° 7 | 14°38 | 16°58 | 13°30 | 11°29 | 16°56 | 7°32 | 9° 7 | 24° 1 | 5°53 | S 11 |
| S 12 | 7 22 16 | 20°55'28 | 16°39 | 27°49 | 5°52 | 16°54 | 14°47 | 17° 4 | 13°33 | 11°31 | 16°57 | 7°R33 | 9° 4 | 24° 8 | 5°50 | S 12 |
| M13 | 7 26 12 | 21°56'36 | 0♉39 | 29° 0 | 7° 1 | 17°42 | 14°55 | 17°10 | 13°35 | 11°34 | 16°57 | 7°33 | 9° 0 | 24°15 | 5°46 | M13 |
| T 14 | 7 30 9 | 22°57'43 | 14°54 | 0♑12 | 8° 9 | 18°29 | 15° 4 | 17°16 | 13°38 | 11°36 | 16°57 | 7°31 | 8°57 | 24°21 | 5°42 | T 14 |
| W15 | 7 34 6 | 23°58'49 | 29°23 | 1°26 | 9°18 | 19°16 | 15°12 | 17°23 | 13°40 | 11°38 | 16°58 | 7°27 | 8°54 | 24°28 | 5°38 | W15 |
| T 16 | 7 38 2 | 24°59'54 | 14♊ 0 | 2°42 | 10°27 | 20° 4 | 15°20 | 17°29 | 13°43 | 11°40 | 16°58 | 7°21 | 8°51 | 24°35 | 5°34 | T 16 |
| F 17 | 7 41 59 | 26° 0'59 | 28°41 | 3°59 | 11°36 | 20°51 | 15°28 | 17°35 | 13°45 | 11°42 | 16°58 | 7°15 | 8°48 | 24°41 | 5°30 | F 17 |
| S 18 | 7 45 55 | 27° 2'03 | 13♋18 | 5°18 | 12°45 | 21°39 | 15°36 | 17°41 | 13°48 | 11°45 | 16°59 | 7° 8 | 8°45 | 24°48 | 5°27 | S 18 |
| S 19 | 7 49 52 | 28° 3'06 | 27°44 | 6°37 | 13°54 | 22°26 | 15°43 | 17°47 | 13°50 | 11°47 | 16°59 | 7° 2 | 8°41 | 24°55 | 5°23 | S 19 |
| M20 | 7 53 48 | 29° 4'08 | 11♌53 | 7°58 | 15° 3 | 23°13 | 15°51 | 17°53 | 13°53 | 11°49 | 16°59 | 6°58 | 8°38 | 25° 2 | 5°19 | M20 |
| T 21 | 7 57 45 | 0♒ 5'10 | 25°39 | 9°21 | 16°13 | 24° 1 | 15°58 | 17°59 | 13°56 | 11°51 | 17° 0 | 6°56 | 8°35 | 25° 8 | 5°16 | T 21 |
| W22 | 8 1 42 | 1° 6'11 | 9♍ 1 | 10°44 | 17°23 | 24°48 | 16° 6 | 18° 4 | 13°58 | 11°53 | 17° 0 | 6°D55 | 8°32 | 25°15 | 5°12 | W22 |
| T 23 | 8 5 38 | 2° 7'11 | 22° 0 | 12° 8 | 18°32 | 25°35 | 16°13 | 18°10 | 14° 1 | 11°56 | 17° 1 | 6°56 | 8°29 | 25°22 | 5° 8 | T 23 |
| F 24 | 8 9 35 | 3° 8'11 | 4♎36 | 13°33 | 19°42 | 26°23 | 16°20 | 18°16 | 14° 4 | 11°58 | 17° 1 | 6°58 | 8°26 | 25°28 | 5° 5 | F 24 |
| S 25 | 8 13 31 | 4° 9'11 | 16°55 | 14°59 | 20°52 | 27°10 | 16°27 | 18°22 | 14° 7 | 12° 0 | 17° 2 | 6°59 | 8°22 | 25°35 | 5° 2 | S 25 |
| S 26 | 8 17 28 | 5°10'09 | 28°59 | 16°25 | 22° 2 | 27°57 | 16°33 | 18°27 | 14° 9 | 12° 3 | 17° 2 | 7° 0 | 8°19 | 25°42 | 4°58 | S 26 |
| M27 | 8 21 24 | 6°11'07 | 10♏55 | 17°53 | 23°13 | 28°45 | 16°40 | 18°33 | 14°12 | 12° 5 | 17° 3 | 7°R 1 | 8°16 | 25°49 | 4°55 | M27 |
| T 28 | 8 25 21 | 7°12'05 | 22°47 | 19°21 | 24°23 | 29°32 | 16°46 | 18°38 | 14°15 | 12° 7 | 17° 3 | 6°59 | 8°13 | 25°55 | 4°52 | T 28 |
| W29 | 8 29 17 | 8°13'02 | 4♐39 | 20°51 | 25°33 | 0♓19 | 16°53 | 18°44 | 14°18 | 12° 9 | 17° 4 | 6°57 | 8°10 | 26° 2 | 4°48 | W29 |
| T 30 | 8 33 14 | 9°13'58 | 16°37 | 22°20 | 26°44 | 1° 7 | 16°59 | 18°49 | 14°21 | 12°12 | 17° 5 | 6°53 | 8° 6 | 26° 9 | 4°45 | T 30 |
| F 31 | 8 37 11 | 10♒14'53 | 28♐43 | 23♑51 | 27♐55 | 1♓54 | 17♏ 5 | 18♐54 | 14♓24 | 12♒14 | 17♈ 5 | 6♓48 | 8♓ 3 | 26♏16 | 4♋42 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 23s 6 | 24s13 | 4s57 | 20s14 | 2n44 | 15s46 | 3n 0 | 19s21 | 1s10 | 14s45 | 1n 5 | 21s17 | 1n26 | 7s20 | 0s45 | 17s31 | 0s 4 | 9s14 | 17s12 | 8s22 | 7s58 | 23s17 | 16n11 | 7s 8 |
| T 2 | 23 2 | 26 44 | 5 4 | 20 24 | 2 37 | 16 3 | 3 0 | 19 8 | 1 10 | 14 48 | 1 5 | 21 18 | 1 26 | 7 19 | 0 45 | 17 30 | 0 4 | 9 14 | 17 12 | 8 26 | 7 59 | 23 19 | 16 11 | 7 8 |
| F 3 | 22 57 | 28 4 | 4 57 | 20 34 | 2 29 | 16 19 | 2 59 | 18 55 | 1 9 | 14 50 | 1 5 | 21 19 | 1 26 | 7 18 | 0 45 | 17 29 | 0 4 | 9 14 | 17 11 | 8 30 | 8 0 | 23 21 | 16 11 | 7 8 |
| S 4 | 22 51 | 28 3 | 4 37 | 20 45 | 2 21 | 16 35 | 2 58 | 18 42 | 1 9 | 14 53 | 1 6 | 21 19 | 1 26 | 7 17 | 0 45 | 17 29 | 0 4 | 9 13 | 17 11 | 8 35 | 8 1 | 23 23 | 16 11 | 7 8 |
| S 5 | 22 45 | 26 38 | 4 3 | 20 56 | 2 13 | 16 51 | 2 57 | 18 29 | 1 9 | 14 56 | 1 6 | 21 20 | 1 26 | 7 16 | 0 45 | 17 28 | 0 4 | 9 13 | 17 10 | 8 38 | 8 2 | 23 25 | 16 11 | 7 8 |
| M 6 | 22 38 | 23 53 | 3 17 | 21 8 | 2 4 | 17 7 | 2 56 | 18 16 | 1 9 | 14 59 | 1 6 | 21 21 | 1 26 | 7 15 | 0 45 | 17 28 | 0 4 | 9 12 | 17 10 | 8 42 | 8 4 | 23 27 | 16 11 | 7 8 |
| T 7 | 22 31 | 19 57 | 2 21 | 21 20 | 1 55 | 17 22 | 2 55 | 18 2 | 1 8 | 15 1 | 1 6 | 21 21 | 1 26 | 7 15 | 0 45 | 17 27 | 0 4 | 9 12 | 17 10 | 8 44 | 8 5 | 23 29 | 16 12 | 7 8 |
| W 8 | 22 24 | 15 2 | 1 17 | 21 32 | 1 46 | 17 37 | 2 53 | 17 48 | 1 8 | 15 4 | 1 6 | 21 22 | 1 26 | 7 14 | 0 45 | 17 27 | 0 4 | 9 12 | 17 9 | 8 45 | 8 6 | 23 30 | 16 12 | 7 8 |
| T 9 | 22 16 | 9 22 | 0 7 | 21 44 | 1 37 | 17 52 | 2 52 | 17 34 | 1 8 | 15 6 | 1 6 | 21 23 | 1 26 | 7 13 | 0 45 | 17 26 | 0 4 | 9 11 | 17 9 | 8 46 | 8 7 | 23 32 | 16 12 | 7 8 |
| F 10 | 22 8 | 3 13 | 1n 4 | 21 56 | 1 28 | 18 6 | 2 51 | 17 20 | 1 7 | 15 9 | 1 6 | 21 23 | 1 26 | 7 12 | 0 45 | 17 26 | 0 4 | 9 11 | 17 9 | 8 45 | 8 8 | 23 34 | 16 12 | 7 8 |
| S 11 | 21 59 | 3n11 | 2 13 | 22 7 | 1 19 | 18 20 | 2 49 | 17 5 | 1 7 | 15 11 | 1 6 | 21 24 | 1 26 | 7 11 | 0 45 | 17 25 | 0 4 | 9 10 | 17 8 | 8 45 | 8 10 | 23 36 | 16 13 | 7 8 |
| S 12 | 21 50 | 9 33 | 3 15 | 22 17 | 1 9 | 18 34 | 2 47 | 16 51 | 1 7 | 15 14 | 1 7 | 21 24 | 1 26 | 7 10 | 0 45 | 17 24 | 0 4 | 9 10 | 17 8 | 8 45 | 8 11 | 23 38 | 16 13 | 7 8 |
| M13 | 21 40 | 15 34 | 4 7 | 22 27 | 1 0 | 18 47 | 2 45 | 16 36 | 1 7 | 15 16 | 1 7 | 21 25 | 1 26 | 7 9 | 0 45 | 17 24 | 0 4 | 9 10 | 17 8 | 8 45 | 8 12 | 23 40 | 16 13 | 7 7 |
| T 14 | 21 30 | 20 52 | 4 45 | 22 36 | 0 51 | 19 0 | 2 43 | 16 21 | 1 6 | 15 18 | 1 7 | 21 26 | 1 26 | 7 8 | 0 45 | 17 23 | 0 4 | 9 9 | 17 7 | 8 45 | 8 13 | 23 42 | 16 13 | 7 7 |
| W15 | 21 20 | 25 0 | 5 6 | 22 45 | 0 42 | 19 13 | 2 41 | 16 6 | 1 6 | 15 21 | 1 7 | 21 26 | 1 26 | 7 7 | 0 45 | 17 23 | 0 4 | 9 9 | 17 7 | 8 47 | 8 14 | 23 44 | 16 14 | 7 7 |
| T 16 | 21 9 | 27 35 | 5 7 | 22 52 | 0 34 | 19 25 | 2 39 | 15 51 | 1 6 | 15 23 | 1 7 | 21 27 | 1 26 | 7 6 | 0 45 | 17 22 | 0 4 | 9 8 | 17 6 | 8 49 | 8 16 | 23 46 | 16 14 | 7 7 |
| F 17 | 20 58 | 28 15 | 4 48 | 22 59 | 0 25 | 19 36 | 2 37 | 15 35 | 1 5 | 15 25 | 1 7 | 21 27 | 1 26 | 7 5 | 0 45 | 17 21 | 0 4 | 9 8 | 17 6 | 8 52 | 8 17 | 23 48 | 16 14 | 7 7 |
| S 18 | 20 46 | 26 56 | 4 10 | 23 5 | 0 16 | 19 47 | 2 35 | 15 20 | 1 5 | 15 27 | 1 7 | 21 28 | 1 26 | 7 4 | 0 45 | 17 21 | 0 4 | 9 7 | 17 6 | 8 54 | 8 18 | 23 50 | 16 15 | 7 7 |
| S 19 | 20 34 | 23 50 | 3 16 | 23 10 | 0 8 | 19 58 | 2 32 | 15 4 | 1 5 | 15 29 | 1 7 | 21 28 | 1 26 | 7 3 | 0 45 | 17 20 | 0 4 | 9 7 | 17 5 | 8 56 | 8 19 | 23 52 | 16 15 | 7 7 |
| M20 | 20 22 | 19 21 | 2 12 | 23 13 | 0s 0 | 20 9 | 2 30 | 14 48 | 1 4 | 15 31 | 1 8 | 21 29 | 1 26 | 7 2 | 0 45 | 17 20 | 0 4 | 9 6 | 17 5 | 8 58 | 8 20 | 23 53 | 16 15 | 7 6 |
| T 21 | 20 9 | 13 56 | 1 1 | 23 16 | 0 8 | 20 18 | 2 27 | 14 32 | 1 4 | 15 33 | 1 8 | 21 29 | 1 26 | 7 1 | 0 45 | 17 19 | 0 4 | 9 6 | 17 5 | 8 59 | 8 22 | 23 55 | 16 16 | 7 6 |
| W22 | 19 56 | 8 1 | 0s11 | 23 18 | 0 16 | 20 28 | 2 25 | 14 16 | 1 3 | 15 35 | 1 8 | 21 30 | 1 26 | 7 0 | 0 45 | 17 18 | 0 4 | 9 5 | 17 4 | 8 59 | 8 23 | 23 57 | 16 16 | 7 6 |
| T 23 | 19 42 | 1 56 | 1 21 | 23 18 | 0 23 | 20 37 | 2 22 | 14 0 | 1 3 | 15 37 | 1 8 | 21 30 | 1 26 | 6 59 | 0 45 | 17 18 | 0 4 | 9 5 | 17 4 | 8 59 | 8 24 | 23 59 | 16 16 | 7 6 |
| F 24 | 19 29 | 4s 3 | 2 25 | 23 17 | 0 31 | 20 45 | 2 19 | 13 43 | 1 3 | 15 39 | 1 8 | 21 31 | 1 26 | 6 58 | 0 45 | 17 17 | 0 4 | 9 4 | 17 4 | 8 58 | 8 25 | 24 1 | 16 17 | 7 6 |
| S 25 | 19 14 | 9 44 | 3 21 | 23 15 | 0 38 | 20 53 | 2 16 | 13 27 | 1 2 | 15 41 | 1 8 | 21 31 | 1 26 | 6 57 | 0 45 | 17 16 | 0 4 | 9 4 | 17 3 | 8 57 | 8 26 | 24 3 | 16 17 | 7 5 |
| S 26 | 19 0 | 14 58 | 4 7 | 23 12 | 0 45 | 21 0 | 2 13 | 13 10 | 1 2 | 15 43 | 1 8 | 21 32 | 1 26 | 6 56 | 0 45 | 17 16 | 0 4 | 9 3 | 17 3 | 8 57 | 8 27 | 24 5 | 16 17 | 7 5 |
| M27 | 18 45 | 19 34 | 4 41 | 23 7 | 0 52 | 21 7 | 2 11 | 12 53 | 1 2 | 15 44 | 1 9 | 21 32 | 1 26 | 6 54 | 0 45 | 17 15 | 0 4 | 9 3 | 17 3 | 8 57 | 8 29 | 24 6 | 16 18 | 7 5 |
| T 28 | 18 29 | 23 22 | 5 3 | 23 1 | 0 58 | 21 13 | 2 8 | 12 36 | 1 1 | 15 46 | 1 9 | 21 32 | 1 26 | 6 53 | 0 45 | 17 15 | 0 4 | 9 2 | 17 2 | 8 57 | 8 30 | 24 8 | 16 18 | 7 4 |
| W29 | 18 14 | 26 12 | 5 12 | 22 54 | 1 4 | 21 19 | 2 4 | 12 19 | 1 1 | 15 48 | 1 9 | 21 33 | 1 27 | 6 52 | 0 45 | 17 14 | 0 4 | 9 2 | 17 2 | 8 58 | 8 31 | 24 10 | 16 19 | 7 4 |
| T 30 | 17 58 | 27 54 | 5 8 | 22 46 | 1 10 | 21 24 | 2 1 | 12 2 | 1 0 | 15 49 | 1 9 | 21 33 | 1 27 | 6 51 | 0 45 | 17 13 | 0 4 | 9 1 | 17 1 | 9 0 | 8 32 | 24 12 | 16 19 | 7 4 |
| F 31 | 17s41 | 28s18 | 4s50 | 22s36 | 1s16 | 21s29 | 1n58 | 11s44 | 1s 0 | 15s51 | 1n 9 | 21s34 | 1n27 | 6s50 | 0s44 | 17s13 | 0s 4 | 9s 1 | 17s 1 | 9s 1 | 8s33 | 24s14 | 16n19 | 7s 4 |

Julian Day Number = 2393105.5, Delta T = 7.61 sec
Ecliptic obliquity = 23°27'44, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°30'22, Lahiri = 21°37'22

# ASTRODIENST EPHEMERIS for the year 1840
# geocentric

## FEBRUARY 1840 — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 41 7 | 11♒15'47 | 11♉ 2 | 25♉23 | 29♐ 5 | 2♓41 | 17♏11 | 19♐ 0 | 14♓27 | 12♒16 | 17♈ 6 | 6°R44 | 8♓ 0 | 26♏22 | 4°R39 | S 1 |
| S 2 | 8 45 4 | 12°16'40 | 23°33 | 26°55 | 0♉16 | 3°29 | 17°16 | 19° 5 | 14°30 | 12°18 | 17° 7 | 6♓39 | 7°57 | 26°29 | 4♋36 | S 2 |
| M 3 | 8 49 0 | 13°17'33 | 6♒20 | 28°28 | 1°27 | 4°16 | 17°22 | 19°10 | 14°33 | 12°21 | 17° 7 | 6°36 | 7°54 | 26°36 | 4°33 | M 3 |
| T 4 | 8 52 57 | 14°18'24 | 19°21 | 0♒ 1 | 2°38 | 5° 3 | 17°27 | 19°15 | 14°36 | 12°23 | 17° 8 | 6°34 | 7°51 | 26°42 | 4°31 | T 4 |
| W 5 | 8 56 53 | 15°19'14 | 2♓36 | 1°36 | 3°49 | 5°50 | 17°32 | 19°20 | 14°39 | 12°25 | 17° 9 | 6°D33 | 7°47 | 26°49 | 4°28 | W 5 |
| T 6 | 9 0 50 | 16°20'02 | 16° 3 | 3°11 | 5° 0 | 6°38 | 17°37 | 19°25 | 14°42 | 12°28 | 17°10 | 6°33 | 7°44 | 26°56 | 4°25 | T 6 |
| F 7 | 9 4 46 | 17°20'49 | 29°43 | 4°47 | 6°11 | 7°25 | 17°42 | 19°30 | 14°45 | 12°30 | 17°10 | 6°34 | 7°41 | 27° 3 | 4°23 | F 7 |
| S 8 | 9 8 43 | 18°21'35 | 13♈32 | 6°24 | 7°23 | 8°12 | 17°47 | 19°34 | 14°49 | 12°32 | 17°11 | 6°36 | 7°38 | 27° 9 | 4°20 | S 8 |
| S 9 | 9 12 40 | 19°22'19 | 27°30 | 8° 1 | 8°34 | 8°59 | 17°52 | 19°39 | 14°52 | 12°34 | 17°12 | 6°37 | 7°35 | 27°16 | 4°18 | S 9 |
| M10 | 9 16 36 | 20°23'01 | 11♉35 | 9°40 | 9°45 | 9°46 | 17°56 | 19°44 | 14°55 | 12°37 | 17°13 | 6°38 | 7°32 | 27°23 | 4°15 | M10 |
| T 11 | 9 20 33 | 21°23'42 | 25°45 | 11°19 | 10°57 | 10°33 | 18° 0 | 19°48 | 14°58 | 12°39 | 17°14 | 6°R38 | 7°28 | 27°29 | 4°13 | T 11 |
| W12 | 9 24 29 | 22°24'21 | 9♊58 | 12°59 | 12° 8 | 11°21 | 18° 4 | 19°53 | 15° 1 | 12°41 | 17°15 | 6°37 | 7°25 | 27°36 | 4°11 | W12 |
| T 13 | 9 28 26 | 23°24'58 | 24°13 | 14°40 | 13°20 | 12° 8 | 18° 8 | 19°57 | 15° 5 | 12°43 | 17°16 | 6°36 | 7°22 | 27°43 | 4° 8 | T 13 |
| F 14 | 9 32 22 | 24°25'34 | 8♋25 | 16°21 | 14°31 | 12°55 | 18°12 | 20° 1 | 15° 8 | 12°46 | 17°17 | 6°34 | 7°19 | 27°50 | 4° 6 | F 14 |
| S 15 | 9 36 19 | 25°26'08 | 22°32 | 18° 4 | 15°43 | 13°42 | 18°15 | 20° 6 | 15°11 | 12°48 | 17°17 | 6°33 | 7°16 | 27°56 | 4° 4 | S 15 |
| S 16 | 9 40 15 | 26°26'40 | 6♌28 | 19°47 | 16°55 | 14°29 | 18°18 | 20°10 | 15°14 | 12°50 | 17°18 | 6°32 | 7°12 | 28° 3 | 4° 2 | S 16 |
| M17 | 9 44 12 | 27°27'10 | 20°12 | 21°32 | 18° 7 | 15°16 | 18°22 | 20°14 | 15°18 | 12°52 | 17°19 | 6°31 | 7° 9 | 28°10 | 4° 1 | M17 |
| T 18 | 9 48 9 | 28°27'39 | 3♍40 | 23°17 | 19°19 | 16° 3 | 18°25 | 20°18 | 15°21 | 12°55 | 17°20 | 6°D30 | 7° 6 | 28°17 | 3°59 | T 18 |
| W19 | 9 52 5 | 29°28'06 | 16°51 | 25° 3 | 20°31 | 16°50 | 18°27 | 20°22 | 15°24 | 12°57 | 17°21 | 6°31 | 7° 3 | 28°23 | 3°57 | W19 |
| T 20 | 9 56 2 | 0♓28'32 | 29°43 | 26°50 | 21°42 | 17°37 | 18°30 | 20°26 | 15°28 | 12°59 | 17°22 | 6°31 | 7° 0 | 28°30 | 3°56 | T 20 |
| F 21 | 9 59 58 | 1°28'56 | 12♎18 | 28°39 | 22°54 | 18°24 | 18°32 | 20°29 | 15°31 | 13° 1 | 17°23 | 6°32 | 6°57 | 28°37 | 3°54 | F 21 |
| S 22 | 10 3 55 | 2°29'19 | 24°38 | 0♓28 | 24° 7 | 19°10 | 18°35 | 20°33 | 15°34 | 13° 3 | 17°24 | 6°32 | 6°53 | 28°43 | 3°53 | S 22 |
| S 23 | 10 7 51 | 3°29'40 | 6♏44 | 2°17 | 25°19 | 19°57 | 18°37 | 20°37 | 15°38 | 13° 6 | 17°26 | 6°32 | 6°50 | 28°50 | 3°51 | S 23 |
| M24 | 10 11 48 | 4°30'00 | 18°42 | 4° 8 | 26°31 | 20°44 | 18°39 | 20°40 | 15°41 | 13° 8 | 17°27 | 6°33 | 6°47 | 28°57 | 3°50 | M24 |
| T 25 | 10 15 44 | 5°30'19 | 0♐36 | 6° 0 | 27°43 | 21°31 | 18°40 | 20°44 | 15°44 | 13°10 | 17°28 | 6°33 | 6°44 | 29° 4 | 3°49 | T 25 |
| W26 | 10 19 41 | 6°30'36 | 12°29 | 7°53 | 28°55 | 22°18 | 18°42 | 20°47 | 15°48 | 13°12 | 17°29 | 6°33 | 6°41 | 29°10 | 3°48 | W26 |
| T 27 | 10 23 38 | 7°30'52 | 24°27 | 9°46 | 0♒ 8 | 23° 4 | 18°43 | 20°50 | 15°51 | 13°14 | 17°30 | 6°33 | 6°38 | 29°17 | 3°47 | T 27 |
| F 28 | 10 27 34 | 8°31'06 | 6♑34 | 11°40 | 1°20 | 23°51 | 18°44 | 20°53 | 15°55 | 13°16 | 17°31 | 6°33 | 6°34 | 29°24 | 3°46 | F 28 |
| S 29 | 10 31 31 | 9♓31'18 | 18♑55 | 13♓35 | 2♒32 | 24♓38 | 18♏45 | 20♐56 | 15♓58 | 13♒18 | 17♈32 | 6♓33 | 6♓31 | 29♏30 | 3♋45 | S 29 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 17s25 | 27s18 | 4s19 | 22s25 | 1s22 | 21s33 | 1n55 | 11s27 | 0s59 | 15s52 | 1n 9 | 21s34 | 1n27 | 6s49 | 0s44 | 17s12 | 0s 4 | 9s 0 | 17s 1 | 9s 3 | 8s35 | 24s15 | 16n20 | 7s 3 |
| S 2 | 17 8 | 24 56 | 3 34 | 22 13 | 1 27 | 21 36 | 1 52 | 11 9 | 0 59 | 15 54 | 1 10 | 21 34 | 1 27 | 6 47 | 0 44 | 17 12 | 0 4 | 9 0 | 17 0 | 9 5 | 8 36 | 24 17 | 16 20 | 7 3 |
| M 3 | 16 51 | 21 16 | 2 39 | 21 59 | 1 32 | 21 39 | 1 48 | 10 52 | 0 59 | 15 55 | 1 10 | 21 35 | 1 27 | 6 46 | 0 44 | 17 11 | 0 4 | 8 59 | 17 0 | 9 6 | 8 37 | 24 19 | 16 21 | 7 3 |
| T 4 | 16 33 | 16 31 | 1 33 | 21 44 | 1 36 | 21 41 | 1 45 | 10 34 | 0 58 | 15 56 | 1 10 | 21 35 | 1 27 | 6 45 | 0 44 | 17 10 | 0 4 | 8 58 | 17 0 | 9 7 | 8 38 | 24 21 | 16 21 | 7 2 |
| W 5 | 16 15 | 10 54 | 0 22 | 21 28 | 1 41 | 21 43 | 1 42 | 10 16 | 0 58 | 15 58 | 1 10 | 21 35 | 1 27 | 6 44 | 0 44 | 17 10 | 0 4 | 8 58 | 17 0 | 9 7 | 8 39 | 24 23 | 16 22 | 7 2 |
| T 6 | 15 57 | 4 42 | 0n52 | 21 10 | 1 45 | 21 44 | 1 38 | 9 58 | 0 57 | 15 59 | 1 10 | 21 36 | 1 27 | 6 43 | 0 44 | 17 9 | 0 4 | 8 57 | 16 59 | 9 7 | 8 41 | 24 24 | 16 22 | 7 2 |
| F 7 | 15 39 | 1n47 | 2 4 | 20 50 | 1 48 | 21 44 | 1 35 | 9 40 | 0 57 | 16 0 | 1 10 | 21 36 | 1 27 | 6 41 | 0 44 | 17 8 | 0 4 | 8 57 | 16 59 | 9 7 | 8 42 | 24 26 | 16 22 | 7 1 |
| S 8 | 15 20 | 8 16 | 3 10 | 20 30 | 1 52 | 21 44 | 1 32 | 9 22 | 0 56 | 16 1 | 1 11 | 21 36 | 1 27 | 6 40 | 0 44 | 17 8 | 0 4 | 8 56 | 16 59 | 9 6 | 8 43 | 24 28 | 16 23 | 7 1 |
| S 9 | 15 2 | 14 24 | 4 5 | 20 8 | 1 55 | 21 43 | 1 28 | 9 4 | 0 56 | 16 2 | 1 11 | 21 37 | 1 27 | 6 39 | 0 44 | 17 7 | 0 4 | 8 55 | 16 58 | 9 6 | 8 44 | 24 30 | 16 23 | 7 0 |
| M10 | 14 42 | 19 51 | 4 46 | 19 44 | 1 58 | 21 42 | 1 25 | 8 46 | 0 55 | 16 3 | 1 11 | 21 37 | 1 27 | 6 38 | 0 44 | 17 6 | 0 4 | 8 55 | 16 58 | 9 5 | 8 45 | 24 31 | 16 24 | 7 0 |
| T 11 | 14 23 | 24 14 | 5 10 | 19 19 | 2 0 | 21 40 | 1 21 | 8 28 | 0 55 | 16 4 | 1 11 | 21 37 | 1 27 | 6 36 | 0 44 | 17 6 | 0 4 | 8 54 | 16 58 | 9 5 | 8 46 | 24 33 | 16 24 | 7 0 |
| W12 | 14 3 | 27 10 | 5 15 | 18 53 | 2 2 | 21 37 | 1 17 | 8 9 | 0 54 | 16 5 | 1 11 | 21 38 | 1 27 | 6 35 | 0 44 | 17 5 | 0 4 | 8 54 | 16 57 | 9 5 | 8 48 | 24 35 | 16 25 | 6 59 |
| T 13 | 13 44 | 28 21 | 5 1 | 18 25 | 2 4 | 21 34 | 1 14 | 7 51 | 0 54 | 16 6 | 1 11 | 21 38 | 1 27 | 6 34 | 0 44 | 17 5 | 0 4 | 8 53 | 16 57 | 9 6 | 8 49 | 24 36 | 16 25 | 6 59 |
| F 14 | 13 24 | 27 40 | 4 29 | 17 56 | 2 5 | 21 30 | 1 10 | 7 32 | 0 53 | 16 7 | 1 12 | 21 38 | 1 27 | 6 33 | 0 44 | 17 4 | 0 4 | 8 52 | 16 57 | 9 6 | 8 50 | 24 38 | 16 26 | 6 58 |
| S 15 | 13 3 | 25 12 | 3 40 | 17 25 | 2 6 | 21 26 | 1 7 | 7 14 | 0 53 | 16 8 | 1 12 | 21 38 | 1 27 | 6 31 | 0 44 | 17 3 | 0 4 | 8 52 | 16 56 | 9 7 | 8 51 | 24 40 | 16 26 | 6 58 |
| S 16 | 12 43 | 21 14 | 2 39 | 16 53 | 2 6 | 21 21 | 1 3 | 6 55 | 0 52 | 16 9 | 1 12 | 21 39 | 1 28 | 6 30 | 0 44 | 17 3 | 0 4 | 8 51 | 16 56 | 9 7 | 8 52 | 24 42 | 16 27 | 6 57 |
| M17 | 12 22 | 16 10 | 1 29 | 16 20 | 2 6 | 21 15 | 1 0 | 6 37 | 0 52 | 16 9 | 1 12 | 21 39 | 1 28 | 6 29 | 0 44 | 17 2 | 0 4 | 8 51 | 16 56 | 9 8 | 8 54 | 24 43 | 16 27 | 6 57 |
| T 18 | 12 1 | 10 25 | 0 16 | 15 45 | 2 6 | 21 9 | 0 56 | 6 18 | 0 51 | 16 10 | 1 12 | 21 39 | 1 28 | 6 28 | 0 44 | 17 1 | 0 4 | 8 50 | 16 56 | 9 8 | 8 55 | 24 45 | 16 28 | 6 57 |
| W19 | 11 40 | 4 19 | 0s57 | 15 8 | 2 5 | 21 2 | 0 52 | 5 59 | 0 51 | 16 11 | 1 12 | 21 39 | 1 28 | 6 26 | 0 44 | 17 1 | 0 4 | 8 49 | 16 55 | 9 8 | 8 56 | 24 47 | 16 28 | 6 56 |
| T 20 | 11 19 | 1s48 | 2 5 | 14 31 | 2 3 | 20 54 | 0 49 | 5 40 | 0 50 | 16 11 | 1 13 | 21 39 | 1 28 | 6 25 | 0 44 | 17 0 | 0 4 | 8 49 | 16 55 | 9 8 | 8 57 | 24 48 | 16 29 | 6 56 |
| F 21 | 10 57 | 7 43 | 3 6 | 13 51 | 2 2 | 20 46 | 0 45 | 5 22 | 0 50 | 16 12 | 1 13 | 21 40 | 1 28 | 6 24 | 0 44 | 17 0 | 0 4 | 8 48 | 16 55 | 9 8 | 8 58 | 24 50 | 16 29 | 6 55 |
| S 22 | 10 36 | 13 13 | 3 56 | 13 11 | 1 59 | 20 38 | 0 42 | 5 3 | 0 49 | 16 12 | 1 13 | 21 40 | 1 28 | 6 22 | 0 44 | 16 59 | 0 4 | 8 48 | 16 55 | 9 7 | 8 59 | 24 52 | 16 30 | 6 55 |
| S 23 | 10 14 | 18 6 | 4 35 | 12 29 | 1 56 | 20 28 | 0 38 | 4 44 | 0 49 | 16 13 | 1 13 | 21 40 | 1 28 | 6 21 | 0 44 | 16 58 | 0 4 | 8 47 | 16 54 | 9 7 | 9 1 | 24 53 | 16 30 | 6 54 |
| M24 | 9 52 | 22 14 | 5 2 | 11 45 | 1 53 | 20 18 | 0 35 | 4 25 | 0 48 | 16 13 | 1 13 | 21 40 | 1 28 | 6 20 | 0 44 | 16 58 | 0 4 | 8 46 | 16 54 | 9 7 | 9 2 | 24 55 | 16 31 | 6 54 |
| T 25 | 9 30 | 25 26 | 5 15 | 11 1 | 1 49 | 20 8 | 0 31 | 4 6 | 0 48 | 16 13 | 1 13 | 21 40 | 1 28 | 6 18 | 0 44 | 16 57 | 0 4 | 8 46 | 16 54 | 9 7 | 9 3 | 24 56 | 16 31 | 6 53 |
| W26 | 9 8 | 27 31 | 5 15 | 10 15 | 1 45 | 19 57 | 0 27 | 3 47 | 0 47 | 16 14 | 1 14 | 21 40 | 1 28 | 6 17 | 0 44 | 16 57 | 0 4 | 8 45 | 16 54 | 9 7 | 9 4 | 24 58 | 16 32 | 6 53 |
| T 27 | 8 46 | 28 22 | 5 2 | 9 27 | 1 40 | 19 45 | 0 24 | 3 28 | 0 47 | 16 14 | 1 14 | 21 41 | 1 28 | 6 16 | 0 44 | 16 56 | 0 4 | 8 44 | 16 53 | 9 7 | 9 5 | 25 0 | 16 32 | 6 52 |
| F 28 | 8 23 | 27 52 | 4 35 | 8 39 | 1 34 | 19 33 | 0 20 | 3 9 | 0 46 | 16 14 | 1 14 | 21 41 | 1 28 | 6 14 | 0 44 | 16 55 | 0 4 | 8 44 | 16 53 | 9 7 | 9 6 | 25 1 | 16 33 | 6 52 |
| S 29 | 8s 0 | 26s 0 | 3s55 | 7s49 | 1s28 | 19s20 | 0n17 | 2s50 | 0s46 | 16s14 | 1n14 | 21s41 | 1n29 | 6s13 | 0s44 | 16s55 | 0s 4 | 8s43 | 16s53 | 9s 7 | 9s 8 | 25s 3 | 16n33 | 6s51 |

Julian Day Number = 2393136.5, Delta T = 7.61 sec
Ecliptic obliquity = 23°27'45, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°30'26, Lahiri = 21°37'27

# ASTRODIENST EPHEMERIS for the year 1840
## geocentric

## MARCH 1840 — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 35 27 | 10♓31'29 | 1♒32 | 15♓30 | 3♒45 | 25♓24 | 18♏46 | 20♐59 | 16♓ 2 | 13♒20 | 17♈33 | 6♓34 | 6♓28 | 29♏37 | 3°R45 | S 1 |
| M 2 | 10 39 24 | 11°31'38 | 14°28 | 17°26 | 4°57 | 26°11 | 18°47 | 21° 2 | 16° 5 | 13°23 | 17°35 | 6°34 | 6°25 | 29°44 | 3♋44 | M 2 |
| T 3 | 10 43 20 | 12°31'46 | 27°45 | 19°22 | 6°10 | 26°58 | 18°47 | 21° 5 | 16° 8 | 13°25 | 17°36 | 6°34 | 6°22 | 29°51 | 3°43 | T 3 |
| W 4 | 10 47 17 | 13°31'51 | 11♓21 | 21°18 | 7°22 | 27°44 | 18°47 | 21° 8 | 16°12 | 13°27 | 17°37 | 6°R34 | 6°18 | 29°57 | 3°43 | W 4 |
| T 5 | 10 51 13 | 14°31'55 | 25°15 | 23°14 | 8°35 | 28°31 | 18°R47 | 21°10 | 16°15 | 13°29 | 17°38 | 6°34 | 6°15 | 0♐ 4 | 3°43 | T 5 |
| F 6 | 10 55 10 | 15°31'57 | 9♈23 | 25°10 | 9°47 | 29°17 | 18°47 | 21°13 | 16°19 | 13°31 | 17°39 | 6°33 | 6°12 | 0°11 | 3°42 | F 6 |
| S 7 | 10 59 6 | 16°31'57 | 23°41 | 27° 5 | 11° 0 | 0♈ 4 | 18°47 | 21°15 | 16°22 | 13°33 | 17°41 | 6°32 | 6° 9 | 0°18 | 3°42 | S 7 |
| S 8 | 11 3 3 | 17°31'54 | 8♉ 5 | 28°59 | 12°12 | 0°50 | 18°46 | 21°18 | 16°26 | 13°35 | 17°42 | 6°31 | 6° 6 | 0°24 | 3°D42 | S 8 |
| M 9 | 11 7 0 | 18°31'50 | 22°28 | 0♈52 | 13°25 | 1°36 | 18°45 | 21°20 | 16°29 | 13°37 | 17°43 | 6°30 | 6° 3 | 0°31 | 3°42 | M 9 |
| T 10 | 11 10 56 | 19°31'43 | 6♊47 | 2°43 | 14°37 | 2°23 | 18°44 | 21°22 | 16°32 | 13°39 | 17°44 | 6°29 | 5°59 | 0°38 | 3°42 | T 10 |
| W11 | 11 14 53 | 20°31'35 | 21° 0 | 4°31 | 15°50 | 3° 9 | 18°43 | 21°24 | 16°36 | 13°40 | 17°46 | 6°D28 | 5°56 | 0°44 | 3°43 | W11 |
| T 12 | 11 18 49 | 21°31'24 | 5♋ 3 | 6°18 | 17° 3 | 3°55 | 18°42 | 21°26 | 16°39 | 13°42 | 17°47 | 6°29 | 5°53 | 0°51 | 3°43 | T 12 |
| F 13 | 11 22 46 | 22°31'10 | 18°56 | 8° 1 | 18°16 | 4°41 | 18°40 | 21°28 | 16°43 | 13°44 | 17°48 | 6°30 | 5°50 | 0°58 | 3°43 | F 13 |
| S 14 | 11 26 42 | 23°30'55 | 2♌36 | 9°40 | 19°28 | 5°28 | 18°39 | 21°30 | 16°46 | 13°46 | 17°50 | 6°31 | 5°47 | 1° 5 | 3°44 | S 14 |
| S 15 | 11 30 39 | 24°30'37 | 16° 5 | 11°16 | 20°41 | 6°14 | 18°37 | 21°31 | 16°50 | 13°48 | 17°51 | 6°32 | 5°44 | 1°11 | 3°44 | S 15 |
| M16 | 11 34 36 | 25°30'17 | 29°22 | 12°47 | 21°54 | 7° 0 | 18°35 | 21°33 | 16°53 | 13°50 | 17°52 | 6°33 | 5°40 | 1°18 | 3°45 | M16 |
| T 17 | 11 38 32 | 26°29'54 | 12♍26 | 14°13 | 23° 7 | 7°46 | 18°33 | 21°34 | 16°56 | 13°52 | 17°54 | 6°R33 | 5°37 | 1°25 | 3°46 | T 17 |
| W18 | 11 42 29 | 27°29'30 | 25°17 | 15°33 | 24°19 | 8°32 | 18°30 | 21°36 | 17° 0 | 13°53 | 17°55 | 6°32 | 5°34 | 1°31 | 3°46 | W18 |
| T 19 | 11 46 25 | 28°29'03 | 7♎55 | 16°48 | 25°32 | 9°18 | 18°28 | 21°37 | 17° 3 | 13°55 | 17°56 | 6°30 | 5°31 | 1°38 | 3°47 | T 19 |
| F 20 | 11 50 22 | 29°28'35 | 20°21 | 17°57 | 26°45 | 10° 4 | 18°25 | 21°38 | 17° 7 | 13°57 | 17°58 | 6°27 | 5°28 | 1°45 | 3°48 | F 20 |
| S 21 | 11 54 18 | 0♈28'04 | 2♏36 | 18°58 | 27°58 | 10°50 | 18°22 | 21°39 | 17°10 | 13°59 | 17°59 | 6°23 | 5°24 | 1°52 | 3°50 | S 21 |
| S 22 | 11 58 15 | 1°27'32 | 14°40 | 19°53 | 29°11 | 11°35 | 18°19 | 21°40 | 17°13 | 14° 0 | 18° 0 | 6°19 | 5°21 | 1°58 | 3°51 | S 22 |
| M23 | 12 2 11 | 2°26'58 | 26°38 | 20°41 | 0♓24 | 12°21 | 18°15 | 21°41 | 17°17 | 14° 2 | 18° 2 | 6°15 | 5°18 | 2° 5 | 3°52 | M23 |
| T 24 | 12 6 8 | 3°26'22 | 8♐31 | 21°22 | 1°37 | 13° 7 | 18°12 | 21°42 | 17°20 | 14° 4 | 18° 3 | 6°11 | 5°15 | 2°12 | 3°53 | T 24 |
| W25 | 12 10 4 | 4°25'45 | 20°24 | 21°55 | 2°50 | 13°53 | 18° 8 | 21°42 | 17°23 | 14° 5 | 18° 4 | 6° 9 | 5°12 | 2°19 | 3°55 | W25 |
| T 26 | 12 14 1 | 5°25'05 | 2♑20 | 22°21 | 4° 2 | 14°38 | 18° 4 | 21°43 | 17°27 | 14° 7 | 18° 6 | 6°D 8 | 5° 9 | 2°25 | 3°56 | T 26 |
| F 27 | 12 17 58 | 6°24'24 | 14°26 | 22°39 | 5°15 | 15°24 | 18° 0 | 21°43 | 17°30 | 14° 8 | 18° 7 | 6° 8 | 5° 5 | 2°32 | 3°58 | F 27 |
| S 28 | 12 21 54 | 7°23'41 | 26°44 | 22°50 | 6°28 | 16°10 | 17°56 | 21°44 | 17°33 | 14°10 | 18° 9 | 6° 9 | 5° 2 | 2°39 | 4° 0 | S 28 |
| S 29 | 12 25 51 | 8°22'56 | 9♒21 | 22°R53 | 7°41 | 16°55 | 17°52 | 21°44 | 17°36 | 14°12 | 18°10 | 6°11 | 4°59 | 2°45 | 4° 2 | S 29 |
| M30 | 12 29 47 | 9°22'10 | 22°19 | 22°49 | 8°54 | 17°41 | 17°48 | 21°44 | 17°40 | 14°13 | 18°11 | 6°13 | 4°56 | 2°52 | 4° 3 | M30 |
| T 31 | 12 33 44 | 10♈21'21 | 5♓42 | 22♈38 | 10♓ 7 | 18♈26 | 17♏43 | 21°R44 | 17♓43 | 14♒14 | 18♈13 | 6°R13 | 4♓53 | 2♐59 | 4♋ 5 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 7s38 | 22s48 | 3s 2 | 6s58 | 1s21 | 19s 7 | 0n14 | 2s31 | 0s45 | 16s14 | 1n14 | 21s41 | 1n29 | 6s12 | 0s44 | 16s54 | 0s 4 | 8s42 | 16s53 | 9s 7 | 9s 9 | 25s 4 | 16n34 | 6s51 |
| M 2 | 7 15 | 18 25 | 1 59 | 6 6 | 1 14 | 18 53 | 0 10 | 2 12 | 0 44 | 16 14 | 1 14 | 21 41 | 1 29 | 6 10 | 0 44 | 16 54 | 0 4 | 8 42 | 16 52 | 9 7 | 9 10 | 25 6 | 16 35 | 6 50 |
| T 3 | 6 52 | 13 2 | 0 49 | 5 13 | 1 6 | 18 39 | 0 7 | 1 53 | 0 44 | 16 14 | 1 15 | 21 41 | 1 29 | 6 9 | 0 44 | 16 53 | 0 4 | 8 41 | 16 52 | 9 6 | 9 11 | 25 8 | 16 35 | 6 50 |
| W 4 | 6 29 | 6 54 | 0n26 | 4 20 | 0 57 | 18 24 | 0 3 | 1 34 | 0 43 | 16 14 | 1 15 | 21 41 | 1 29 | 6 8 | 0 44 | 16 52 | 0 5 | 8 41 | 16 52 | 9 6 | 9 12 | 25 9 | 16 36 | 6 49 |
| T 5 | 6 6 | 0 20 | 1 42 | 3 26 | 0 48 | 18 8 | 0 0 | 1 15 | 0 43 | 16 14 | 1 15 | 21 41 | 1 29 | 6 6 | 0 44 | 16 52 | 0 5 | 8 40 | 16 52 | 9 7 | 9 14 | 25 11 | 16 36 | 6 49 |
| F 6 | 5 43 | 6n21 | 2 52 | 2 31 | 0 39 | 17 52 | 0s 3 | 0 56 | 0 42 | 16 13 | 1 15 | 21 41 | 1 29 | 6 5 | 0 44 | 16 51 | 0 5 | 8 39 | 16 52 | 9 7 | 9 15 | 25 12 | 16 37 | 6 48 |
| S 7 | 5 19 | 12 48 | 3 52 | 1 36 | 0 28 | 17 36 | 0 6 | 0 37 | 0 42 | 16 13 | 1 15 | 21 41 | 1 29 | 6 4 | 0 44 | 16 51 | 0 5 | 8 39 | 16 51 | 9 7 | 9 16 | 25 14 | 16 37 | 6 48 |
| S 8 | 4 56 | 18 36 | 4 38 | 0 41 | 0 18 | 17 19 | 0 10 | 0 18 | 0 41 | 16 13 | 1 15 | 21 42 | 1 29 | 6 2 | 0 44 | 16 50 | 0 5 | 8 38 | 16 51 | 9 8 | 9 17 | 25 15 | 16 38 | 6 47 |
| M 9 | 4 32 | 23 20 | 5 7 | 0n15 | 0 6 | 17 1 | 0 13 | 0n 1 | 0 40 | 16 13 | 1 15 | 21 42 | 1 29 | 6 1 | 0 44 | 16 50 | 0 5 | 8 37 | 16 51 | 9 8 | 9 18 | 25 17 | 16 38 | 6 47 |
| T 10 | 4 9 | 26 39 | 5 16 | 1 10 | 0n 5 | 16 43 | 0 16 | 0 20 | 0 40 | 16 12 | 1 16 | 21 42 | 1 29 | 6 0 | 0 44 | 16 49 | 0 5 | 8 37 | 16 51 | 9 9 | 9 19 | 25 19 | 16 39 | 6 46 |
| W11 | 3 45 | 28 15 | 5 6 | 2 4 | 0 17 | 16 25 | 0 19 | 0 39 | 0 39 | 16 12 | 1 16 | 21 42 | 1 29 | 5 58 | 0 44 | 16 49 | 0 5 | 8 36 | 16 51 | 9 9 | 9 21 | 25 20 | 16 39 | 6 45 |
| T 12 | 3 22 | 27 59 | 4 38 | 2 57 | 0 30 | 16 6 | 0 22 | 0 58 | 0 39 | 16 11 | 1 16 | 21 42 | 1 30 | 5 57 | 0 44 | 16 48 | 0 5 | 8 36 | 16 51 | 9 9 | 9 22 | 25 22 | 16 40 | 6 45 |
| F 13 | 2 58 | 25 59 | 3 54 | 3 50 | 0 42 | 15 46 | 0 25 | 1 17 | 0 38 | 16 11 | 1 16 | 21 42 | 1 30 | 5 56 | 0 44 | 16 48 | 0 5 | 8 35 | 16 50 | 9 8 | 9 23 | 25 23 | 16 40 | 6 44 |
| S 14 | 2 35 | 22 28 | 2 57 | 4 41 | 0 55 | 15 26 | 0 28 | 1 36 | 0 37 | 16 10 | 1 16 | 21 42 | 1 30 | 5 54 | 0 44 | 16 47 | 0 5 | 8 34 | 16 50 | 9 8 | 9 24 | 25 25 | 16 41 | 6 44 |
| S 15 | 2 11 | 17 47 | 1 51 | 5 30 | 1 8 | 15 6 | 0 31 | 1 55 | 0 37 | 16 9 | 1 16 | 21 42 | 1 30 | 5 53 | 0 44 | 16 46 | 0 5 | 8 34 | 16 50 | 9 7 | 9 25 | 25 26 | 16 41 | 6 43 |
| M16 | 1 47 | 12 19 | 0 40 | 6 18 | 1 21 | 14 46 | 0 34 | 2 14 | 0 36 | 16 9 | 1 17 | 21 42 | 1 30 | 5 52 | 0 44 | 16 46 | 0 5 | 8 33 | 16 50 | 9 7 | 9 26 | 25 28 | 16 42 | 6 43 |
| T 17 | 1 24 | 6 24 | 0s32 | 7 3 | 1 34 | 14 24 | 0 37 | 2 32 | 0 36 | 16 8 | 1 17 | 21 42 | 1 30 | 5 50 | 0 44 | 16 45 | 0 5 | 8 32 | 16 50 | 9 7 | 9 28 | 25 29 | 16 42 | 6 42 |
| W18 | 1 0 | 0 20 | 1 41 | 7 46 | 1 46 | 14 3 | 0 40 | 2 51 | 0 35 | 16 7 | 1 17 | 21 42 | 1 30 | 5 49 | 0 44 | 16 45 | 0 5 | 8 32 | 16 50 | 9 7 | 9 29 | 25 31 | 16 43 | 6 42 |
| T 19 | 0 36 | 5s39 | 2 44 | 8 26 | 1 59 | 13 41 | 0 42 | 3 10 | 0 34 | 16 6 | 1 17 | 21 42 | 1 30 | 5 48 | 0 44 | 16 44 | 0 5 | 8 31 | 16 50 | 9 8 | 9 30 | 25 32 | 16 43 | 6 41 |
| F 20 | 0 13 | 11 19 | 3 38 | 9 3 | 2 10 | 13 19 | 0 45 | 3 28 | 0 34 | 16 5 | 1 17 | 21 42 | 1 30 | 5 46 | 0 44 | 16 44 | 0 5 | 8 31 | 16 49 | 9 9 | 9 31 | 25 33 | 16 44 | 6 41 |
| S 21 | 0n11 | 16 28 | 4 21 | 9 37 | 2 22 | 12 56 | 0 48 | 3 47 | 0 33 | 16 4 | 1 17 | 21 42 | 1 30 | 5 45 | 0 44 | 16 43 | 0 5 | 8 30 | 16 49 | 9 11 | 9 32 | 25 35 | 16 44 | 6 40 |
| S 22 | 0 35 | 20 53 | 4 51 | 10 8 | 2 32 | 12 33 | 0 50 | 4 5 | 0 33 | 16 3 | 1 17 | 21 42 | 1 30 | 5 44 | 0 44 | 16 43 | 0 5 | 8 29 | 16 49 | 9 12 | 9 33 | 25 36 | 16 45 | 6 40 |
| M23 | 0 58 | 24 25 | 5 9 | 10 35 | 2 42 | 12 10 | 0 53 | 4 24 | 0 32 | 16 2 | 1 18 | 21 42 | 1 31 | 5 42 | 0 44 | 16 43 | 0 5 | 8 29 | 16 49 | 9 14 | 9 35 | 25 38 | 16 45 | 6 39 |
| T 24 | 1 22 | 26 54 | 5 13 | 10 59 | 2 51 | 11 46 | 0 55 | 4 42 | 0 31 | 16 1 | 1 18 | 21 42 | 1 31 | 5 41 | 0 44 | 16 42 | 0 5 | 8 28 | 16 49 | 9 15 | 9 36 | 25 39 | 16 46 | 6 39 |
| W25 | 1 46 | 28 10 | 5 4 | 11 19 | 2 59 | 11 22 | 0 57 | 5 0 | 0 31 | 16 0 | 1 18 | 21 42 | 1 31 | 5 40 | 0 44 | 16 42 | 0 5 | 8 28 | 16 49 | 9 16 | 9 37 | 25 41 | 16 46 | 6 38 |
| T 26 | 2 9 | 28 8 | 4 41 | 11 35 | 3 6 | 10 58 | 1 0 | 5 19 | 0 30 | 15 59 | 1 18 | 21 42 | 1 31 | 5 39 | 0 44 | 16 41 | 0 5 | 8 27 | 16 49 | 9 16 | 9 38 | 25 42 | 16 47 | 6 37 |
| F 27 | 2 33 | 26 45 | 4 6 | 11 47 | 3 11 | 10 33 | 1 2 | 5 37 | 0 30 | 15 58 | 1 18 | 21 42 | 1 31 | 5 37 | 0 44 | 16 41 | 0 5 | 8 26 | 16 49 | 9 16 | 9 39 | 25 43 | 16 47 | 6 37 |
| S 28 | 2 56 | 24 5 | 3 19 | 11 54 | 3 15 | 10 8 | 1 4 | 5 55 | 0 29 | 15 57 | 1 18 | 21 41 | 1 31 | 5 36 | 0 44 | 16 40 | 0 5 | 8 26 | 16 49 | 9 16 | 9 40 | 25 45 | 16 48 | 6 36 |
| S 29 | 3 20 | 20 12 | 2 22 | 11 58 | 3 18 | 9 43 | 1 6 | 6 13 | 0 28 | 15 55 | 1 18 | 21 41 | 1 31 | 5 35 | 0 44 | 16 40 | 0 5 | 8 25 | 16 49 | 9 15 | 9 42 | 25 46 | 16 48 | 6 36 |
| M30 | 3 43 | 15 16 | 1 15 | 11 58 | 3 20 | 9 17 | 1 8 | 6 31 | 0 28 | 15 54 | 1 18 | 21 41 | 1 31 | 5 34 | 0 44 | 16 39 | 0 5 | 8 25 | 16 49 | 9 15 | 9 43 | 25 48 | 16 49 | 6 35 |
| T 31 | 4n 6 | 9s29 | 0s 3 | 11n54 | 3n20 | 8s52 | 1s10 | 6n49 | 0s27 | 15s53 | 1n18 | 21s41 | 1n31 | 5s32 | 0s44 | 16s39 | 0s 5 | 8s24 | 16s48 | 9s14 | 9s44 | 25s49 | 16n49 | 6s35 |

Julian Day Number = 2393165.5, Delta T = 7.60 sec
Ecliptic obliquity = 23°27'45, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°30'30, Lahiri = 21°37'31

# ASTRODIENST EPHEMERIS for the year 1840
# geocentric

## APRIL 1840 — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 12 37 40 | 11♈20'30 | 19♓30 | 22°R21 | 11♓21 | 19♈12 | 17°R38 | 21°R44 | 17♓46 | 14♒16 | 18♈14 | 6°R13 | 4♓49 | 3♐ 6 | 4♋ 7 | W 1 |
| T 2 | 12 41 37 | 12°19'38 | 3♈42 | 21♈57 | 12°34 | 19°57 | 17♏33 | 21♐44 | 17°49 | 14°17 | 18°16 | 6♓10 | 4°46 | 3°12 | 4°10 | T 2 |
| F 3 | 12 45 33 | 13°18'44 | 18°14 | 21°28 | 13°47 | 20°42 | 17°28 | 21°44 | 17°53 | 14°19 | 18°17 | 6° 6 | 4°43 | 3°19 | 4°12 | F 3 |
| S 4 | 12 49 30 | 14°17'47 | 3♉ 0 | 20°54 | 15° 0 | 21°27 | 17°23 | 21°44 | 17°56 | 14°20 | 18°18 | 6° 1 | 4°40 | 3°26 | 4°14 | S 4 |
| S 5 | 12 53 27 | 15°16'49 | 17°51 | 20°17 | 16°13 | 22°13 | 17°17 | 21°43 | 17°59 | 14°21 | 18°20 | 5°55 | 4°37 | 3°33 | 4°17 | S 5 |
| M 6 | 12 57 23 | 16°15'48 | 2♊40 | 19°35 | 17°26 | 22°58 | 17°12 | 21°43 | 18° 2 | 14°23 | 18°21 | 5°49 | 4°34 | 3°39 | 4°19 | M 6 |
| T 7 | 13 1 20 | 17°14'45 | 17°19 | 18°52 | 18°39 | 23°43 | 17° 6 | 21°42 | 18° 5 | 14°24 | 18°23 | 5°44 | 4°30 | 3°46 | 4°22 | T 7 |
| W 8 | 13 5 16 | 18°13'40 | 1♋42 | 18° 7 | 19°52 | 24°28 | 17° 1 | 21°41 | 18° 8 | 14°25 | 18°24 | 5°41 | 4°27 | 3°53 | 4°24 | W 8 |
| T 9 | 13 9 13 | 19°12'33 | 15°47 | 17°21 | 21° 5 | 25°13 | 16°55 | 21°40 | 18°11 | 14°27 | 18°26 | 5°D40 | 4°24 | 3°59 | 4°27 | T 9 |
| F 10 | 13 13 9 | 20°11'23 | 29°33 | 16°35 | 22°18 | 25°58 | 16°49 | 21°40 | 18°14 | 14°28 | 18°27 | 5°40 | 4°21 | 4° 6 | 4°30 | F 10 |
| S 11 | 13 17 6 | 21°10'11 | 13♌ 0 | 15°50 | 23°31 | 26°43 | 16°42 | 21°39 | 18°17 | 14°29 | 18°28 | 5°42 | 4°18 | 4°13 | 4°33 | S 11 |
| S 12 | 13 21 2 | 22° 8'56 | 26°11 | 15° 7 | 24°44 | 27°28 | 16°36 | 21°37 | 18°20 | 14°30 | 18°30 | 5°43 | 4°15 | 4°20 | 4°36 | S 12 |
| M13 | 13 24 59 | 23° 7'39 | 9♍ 6 | 14°27 | 25°57 | 28°13 | 16°30 | 21°36 | 18°23 | 14°31 | 18°31 | 5°R43 | 4°11 | 4°26 | 4°39 | M13 |
| T 14 | 13 28 56 | 24° 6'20 | 21°49 | 13°50 | 27°11 | 28°57 | 16°23 | 21°35 | 18°26 | 14°32 | 18°33 | 5°42 | 4° 8 | 4°33 | 4°42 | T 14 |
| W15 | 13 32 52 | 25° 4'59 | 4♎21 | 13°16 | 28°24 | 29°42 | 16°17 | 21°34 | 18°29 | 14°33 | 18°34 | 5°38 | 4° 5 | 4°40 | 4°45 | W15 |
| T 16 | 13 36 49 | 26° 3'36 | 16°43 | 12°47 | 29°37 | 0♉27 | 16°10 | 21°32 | 18°32 | 14°34 | 18°35 | 5°32 | 4° 2 | 4°46 | 4°48 | T 16 |
| F 17 | 13 40 45 | 27° 2'11 | 28°56 | 12°22 | 0♈50 | 1°11 | 16° 3 | 21°30 | 18°35 | 14°35 | 18°37 | 5°24 | 3°59 | 4°53 | 4°52 | F 17 |
| S 18 | 13 44 42 | 28° 0'44 | 11♏ 3 | 12° 2 | 2° 3 | 1°56 | 15°56 | 21°29 | 18°38 | 14°36 | 18°38 | 5°15 | 3°55 | 5° 0 | 4°55 | S 18 |
| S 19 | 13 48 38 | 28°59'15 | 23° 2 | 11°47 | 3°16 | 2°41 | 15°49 | 21°27 | 18°41 | 14°37 | 18°40 | 5° 4 | 3°52 | 5° 7 | 4°59 | S 19 |
| M20 | 13 52 35 | 29°57'45 | 4♐57 | 11°36 | 4°29 | 3°25 | 15°42 | 21°25 | 18°43 | 14°38 | 18°41 | 4°54 | 3°49 | 5°13 | 5° 2 | M20 |
| T 21 | 13 56 31 | 0♉56'12 | 16°49 | 11°31 | 5°43 | 4° 9 | 15°35 | 21°23 | 18°46 | 14°39 | 18°42 | 4°45 | 3°46 | 5°20 | 5° 6 | T 21 |
| W22 | 14 0 28 | 1°54'39 | 28°42 | 11°D31 | 6°56 | 4°54 | 15°28 | 21°21 | 18°49 | 14°40 | 18°44 | 4°38 | 3°43 | 5°27 | 5° 9 | W22 |
| T 23 | 14 4 25 | 2°53'03 | 10♑37 | 11°36 | 8° 9 | 5°38 | 15°21 | 21°19 | 18°52 | 14°41 | 18°45 | 4°33 | 3°40 | 5°34 | 5°13 | T 23 |
| F 24 | 14 8 21 | 3°51'26 | 22°41 | 11°46 | 9°22 | 6°22 | 15°13 | 21°17 | 18°54 | 14°41 | 18°47 | 4°31 | 3°36 | 5°40 | 5°17 | F 24 |
| S 25 | 14 12 18 | 4°49'47 | 4♒56 | 12° 0 | 10°35 | 7° 7 | 15° 6 | 21°15 | 18°57 | 14°42 | 18°48 | 4°D30 | 3°33 | 5°47 | 5°21 | S 25 |
| S 26 | 14 16 14 | 5°48'06 | 17°29 | 12°19 | 11°48 | 7°51 | 14°59 | 21°12 | 19° 0 | 14°43 | 18°49 | 4°30 | 3°30 | 5°54 | 5°25 | S 26 |
| M27 | 14 20 11 | 6°46'24 | 0♓23 | 12°43 | 13° 2 | 8°35 | 14°51 | 21°10 | 19° 2 | 14°44 | 18°51 | 4°R31 | 3°27 | 6° 0 | 5°29 | M27 |
| T 28 | 14 24 7 | 7°44'41 | 13°43 | 13°11 | 14°15 | 9°19 | 14°44 | 21° 7 | 19° 5 | 14°44 | 18°52 | 4°31 | 3°24 | 6° 7 | 5°33 | T 28 |
| W29 | 14 28 4 | 8°42'56 | 27°32 | 13°43 | 15°28 | 10° 3 | 14°36 | 21° 5 | 19° 7 | 14°45 | 18°53 | 4°29 | 3°21 | 6°14 | 5°37 | W29 |
| T 30 | 14 32 0 | 9♉41'09 | 11♈49 | 14♈19 | 16♈41 | 10♉47 | 14♏29 | 21♐ 2 | 19♓10 | 14♒45 | 18♈55 | 4♓24 | 3♓17 | 6♐21 | 5♋41 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| W 1 | 4n29 | 3s 4 | 1n12 | 11n46 | 3n18 | 8s26 | 1s12 | 7n 7 | 0s26 | 15s51 | 1n19 | 21s41 | 1n31 | 5s31 | 0s44 | 16s39 | 0s 5 | 8s24 | 16s48 | 9s15 | 9s45 | 25s50 | 16n50 | 6s34 | |
| T 2 | 4 53 | 3n40 | 2 24 | 11 34 | 3 15 | 7 59 | 1 14 | 7 25 | 0 26 | 15 50 | 1 19 | 21 41 | 1 31 | 5 30 | 0 44 | 16 38 | 0 5 | 8 23 | 16 48 | 9 15 | 9 46 | 25 52 | 16 50 | 6 34 | |
| F 3 | 5 16 | 10 22 | 3 28 | 11 18 | 3 10 | 7 33 | 1 16 | 7 42 | 0 25 | 15 48 | 1 19 | 21 41 | 1 31 | 5 29 | 0 44 | 16 38 | 0 5 | 8 23 | 16 48 | 9 17 | 9 47 | 25 53 | 16 51 | 6 33 | |
| S 4 | 5 39 | 16 35 | 4 20 | 11 0 | 3 3 | 7 6 | 1 17 | 8 0 | 0 24 | 15 47 | 1 19 | 21 41 | 1 32 | 5 27 | 0 44 | 16 37 | 0 5 | 8 22 | 16 48 | 9 19 | 9 49 | 25 54 | 16 51 | 6 33 | |
| S 5 | 6 1 | 21 52 | 4 54 | 10 38 | 2 55 | 6 39 | 1 19 | 8 17 | 0 24 | 15 45 | 1 19 | 21 41 | 1 32 | 5 26 | 0 44 | 16 37 | 0 5 | 8 21 | 16 48 | 9 21 | 9 50 | 25 56 | 16 52 | 6 32 | |
| M 6 | 6 24 | 25 46 | 5 9 | 10 13 | 2 45 | 6 12 | 1 21 | 8 35 | 0 23 | 15 43 | 1 19 | 21 41 | 1 32 | 5 25 | 0 44 | 16 37 | 0 5 | 8 21 | 16 48 | 9 23 | 9 51 | 25 57 | 16 52 | 6 32 | |
| T 7 | 6 47 | 27 53 | 5 3 | 9 46 | 2 34 | 5 45 | 1 22 | 8 52 | 0 23 | 15 42 | 1 19 | 21 41 | 1 32 | 5 24 | 0 44 | 16 36 | 0 5 | 8 20 | 16 48 | 9 25 | 9 52 | 25 58 | 16 52 | 6 31 | |
| W 8 | 7 9 | 28 5 | 4 38 | 9 17 | 2 21 | 5 18 | 1 23 | 9 9 | 0 22 | 15 40 | 1 19 | 21 40 | 1 32 | 5 22 | 0 44 | 16 36 | 0 5 | 8 20 | 16 48 | 9 26 | 9 53 | 26 0 | 16 53 | 6 31 | |
| T 9 | 7 32 | 26 27 | 3 57 | 8 47 | 2 8 | 4 50 | 1 25 | 9 26 | 0 21 | 15 38 | 1 19 | 21 40 | 1 32 | 5 21 | 0 44 | 16 36 | 0 5 | 8 19 | 16 48 | 9 26 | 9 54 | 26 1 | 16 53 | 6 30 | |
| F 10 | 7 54 | 23 15 | 3 3 | 8 16 | 1 53 | 4 23 | 1 26 | 9 43 | 0 21 | 15 36 | 1 19 | 21 40 | 1 32 | 5 20 | 0 44 | 16 35 | 0 5 | 8 19 | 16 48 | 9 26 | 9 56 | 26 2 | 16 54 | 6 30 | |
| S 11 | 8 16 | 18 50 | 2 0 | 7 45 | 1 38 | 3 55 | 1 27 | 10 0 | 0 20 | 15 35 | 1 19 | 21 40 | 1 32 | 5 19 | 0 44 | 16 35 | 0 5 | 8 18 | 16 48 | 9 26 | 9 57 | 26 4 | 16 54 | 6 29 | |
| S 12 | 8 38 | 13 37 | 0 51 | 7 13 | 1 22 | 3 27 | 1 28 | 10 17 | 0 19 | 15 33 | 1 19 | 21 40 | 1 32 | 5 18 | 0 44 | 16 35 | 0 5 | 8 18 | 16 48 | 9 26 | 9 58 | 26 5 | 16 54 | 6 29 | |
| M13 | 9 0 | 7 53 | 0s18 | 6 43 | 1 6 | 2 59 | 1 29 | 10 33 | 0 19 | 15 31 | 1 19 | 21 40 | 1 32 | 5 17 | 0 44 | 16 34 | 0 5 | 8 17 | 16 48 | 9 25 | 9 59 | 26 6 | 16 55 | 6 28 | |
| T 14 | 9 22 | 1 56 | 1 26 | 6 13 | 0 49 | 2 30 | 1 30 | 10 50 | 0 18 | 15 29 | 1 19 | 21 40 | 1 32 | 5 16 | 0 44 | 16 34 | 0 5 | 8 17 | 16 48 | 9 26 | 10 0 | 26 8 | 16 55 | 6 28 | |
| W15 | 9 43 | 3s59 | 2 28 | 5 44 | 0 32 | 2 2 | 1 31 | 11 6 | 0 17 | 15 27 | 1 20 | 21 39 | 1 32 | 5 14 | 0 44 | 16 34 | 0 5 | 8 16 | 16 48 | 9 27 | 10 1 | 26 9 | 16 55 | 6 27 | |
| T 16 | 10 4 | 9 41 | 3 22 | 5 18 | 0 16 | 1 34 | 1 32 | 11 23 | 0 17 | 15 25 | 1 20 | 21 39 | 1 32 | 5 13 | 0 44 | 16 33 | 0 5 | 8 16 | 16 48 | 9 29 | 10 2 | 26 10 | 16 56 | 6 27 | |
| F 17 | 10 26 | 14 56 | 4 6 | 4 53 | 0s 1 | 1 5 | 1 33 | 11 39 | 0 16 | 15 23 | 1 20 | 21 39 | 1 32 | 5 12 | 0 45 | 16 33 | 0 5 | 8 15 | 16 48 | 9 32 | 10 4 | 26 11 | 16 56 | 6 26 | |
| S 18 | 10 47 | 19 34 | 4 38 | 4 30 | 0 17 | 0 37 | 1 34 | 11 55 | 0 16 | 15 21 | 1 20 | 21 39 | 1 33 | 5 11 | 0 45 | 16 33 | 0 5 | 8 15 | 16 48 | 9 36 | 10 5 | 26 13 | 16 57 | 6 26 | |
| S 19 | 11 7 | 23 21 | 4 58 | 4 10 | 0 32 | 0 8 | 1 34 | 12 11 | 0 15 | 15 19 | 1 20 | 21 39 | 1 33 | 5 10 | 0 45 | 16 33 | 0 5 | 8 14 | 16 48 | 9 40 | 10 6 | 26 14 | 16 57 | 6 26 | |
| M20 | 11 28 | 26 8 | 5 5 | 3 52 | 0 47 | 0n20 | 1 35 | 12 27 | 0 14 | 15 17 | 1 20 | 21 39 | 1 33 | 5 9 | 0 45 | 16 32 | 0 5 | 8 14 | 16 49 | 9 43 | 10 7 | 26 15 | 16 57 | 6 25 | |
| T 21 | 11 49 | 27 45 | 4 58 | 3 37 | 1 2 | 0 49 | 1 35 | 12 42 | 0 14 | 15 15 | 1 20 | 21 38 | 1 33 | 5 8 | 0 45 | 16 32 | 0 5 | 8 13 | 16 49 | 9 47 | 10 8 | 26 16 | 16 57 | 6 25 | |
| W22 | 12 9 | 28 6 | 4 39 | 3 24 | 1 15 | 1 17 | 1 36 | 12 58 | 0 13 | 15 13 | 1 20 | 21 38 | 1 33 | 5 7 | 0 45 | 16 32 | 0 5 | 8 13 | 16 49 | 9 49 | 10 9 | 26 17 | 16 58 | 6 24 | |
| T 23 | 12 29 | 27 8 | 4 7 | 3 14 | 1 28 | 1 46 | 1 36 | 13 13 | 0 12 | 15 11 | 1 20 | 21 38 | 1 33 | 5 6 | 0 45 | 16 32 | 0 5 | 8 13 | 16 49 | 9 51 | 10 11 | 26 19 | 16 58 | 6 24 | |
| F 24 | 12 49 | 24 54 | 3 24 | 3 7 | 1 41 | 2 14 | 1 36 | 13 28 | 0 12 | 15 9 | 1 20 | 21 38 | 1 33 | 5 5 | 0 45 | 16 31 | 0 5 | 8 12 | 16 49 | 9 52 | 10 12 | 26 20 | 16 58 | 6 23 | |
| S 25 | 13 9 | 21 30 | 2 31 | 3 2 | 1 52 | 2 43 | 1 36 | 13 44 | 0 11 | 15 7 | 1 20 | 21 38 | 1 33 | 5 4 | 0 45 | 16 31 | 0 5 | 8 12 | 16 49 | 9 52 | 10 13 | 26 21 | 16 59 | 6 23 | |
| S 26 | 13 28 | 17 2 | 1 30 | 3 0 | 2 3 | 3 12 | 1 36 | 13 59 | 0 10 | 15 5 | 1 20 | 21 37 | 1 33 | 5 3 | 0 45 | 16 31 | 0 5 | 8 11 | 16 49 | 9 52 | 10 14 | 26 22 | 16 59 | 6 22 | |
| M27 | 13 47 | 11 41 | 0 22 | 3 0 | 2 12 | 3 40 | 1 37 | 14 13 | 0 10 | 15 2 | 1 20 | 21 37 | 1 33 | 5 2 | 0 45 | 16 31 | 0 5 | 8 11 | 16 49 | 9 52 | 10 15 | 26 23 | 16 59 | 6 22 | |
| T 28 | 14 6 | 5 39 | 0n49 | 3 2 | 2 21 | 4 8 | 1 36 | 14 28 | 0 9 | 15 0 | 1 20 | 21 37 | 1 33 | 5 1 | 0 45 | 16 31 | 0 5 | 8 10 | 16 49 | 9 52 | 10 16 | 26 25 | 16 59 | 6 22 | |
| W29 | 14 25 | 0n51 | 1 59 | 3 7 | 2 29 | 4 37 | 1 36 | 14 43 | 0 8 | 14 58 | 1 19 | 21 37 | 1 33 | 5 0 | 0 45 | 16 31 | 0 5 | 8 10 | 16 49 | 9 53 | 10 17 | 26 26 | 17 0 | 6 21 | |
| T 30 | 14n44 | 7n31 | 3n 5 | 3n15 | 2s37 | 5n 5 | 1s36 | 14n57 | 0s 8 | 14s56 | 1n19 | 21s37 | 1n33 | 4s59 | 0s45 | 16s30 | 0s 5 | 8s10 | 16s49 | 9s54 | 10s19 | 26s27 | 17n 0 | 6s21 | |

Julian Day Number = 2393196.5, Delta T = 7.60 sec
Ecliptic obliquity = 23°27'45, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°30'34, Lahiri = 21°37'35

# ASTRODIENST EPHEMERIS for the year 1840
# geocentric

## MAY 1840 — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 14 35 57 | 10♉39'21 | 26♈32 | 14♈59 | 17♈54 | 11♉31 | 14°R21 | 20°R59 | 19♓12 | 14♒46 | 18♈56 | 4°R17 | 3♓14 | 6♐27 | 5♋46 | F 1 |
| S 2 | 14 39 54 | 11°37'31 | 11♉34 | 15°43 | 19° 8 | 12°15 | 14♏13 | 20♐56 | 19°15 | 14°46 | 18°57 | 4♓ 8 | 3°11 | 6°34 | 5°50 | S 2 |
| S 3 | 14 43 50 | 12°35'40 | 26°46 | 16°30 | 20°21 | 12°59 | 14° 6 | 20°53 | 19°17 | 14°47 | 18°59 | 3°58 | 3° 8 | 6°41 | 5°54 | S 3 |
| M 4 | 14 47 47 | 13°33'46 | 11♊56 | 17°21 | 21°34 | 13°42 | 13°58 | 20°50 | 19°19 | 14°47 | 19° 0 | 3°49 | 3° 5 | 6°48 | 5°59 | M 4 |
| T 5 | 14 51 43 | 14°31'51 | 26°55 | 18°15 | 22°47 | 14°26 | 13°50 | 20°47 | 19°22 | 14°48 | 19° 1 | 3°40 | 3° 1 | 6°54 | 6° 4 | T 5 |
| W 6 | 14 55 40 | 15°29'55 | 11♋35 | 19°12 | 24° 0 | 15°10 | 13°43 | 20°44 | 19°24 | 14°48 | 19° 3 | 3°34 | 2°58 | 7° 1 | 6° 8 | W 6 |
| T 7 | 14 59 36 | 16°27'56 | 25°51 | 20°12 | 25°14 | 15°53 | 13°35 | 20°41 | 19°26 | 14°49 | 19° 4 | 3°30 | 2°55 | 7° 8 | 6°13 | T 7 |
| F 8 | 15 3 33 | 17°25'55 | 9♌41 | 21°15 | 26°27 | 16°37 | 13°27 | 20°38 | 19°28 | 14°49 | 19° 5 | 3°29 | 2°52 | 7°14 | 6°17 | F 8 |
| S 9 | 15 7 29 | 18°23'53 | 23° 6 | 22°21 | 27°40 | 17°20 | 13°20 | 20°34 | 19°30 | 14°49 | 19° 7 | 3°D29 | 2°49 | 7°21 | 6°22 | S 9 |
| S 10 | 15 11 26 | 19°21'48 | 6♍10 | 23°30 | 28°53 | 18° 4 | 13°12 | 20°31 | 19°32 | 14°49 | 19° 8 | 3°R29 | 2°46 | 7°28 | 6°27 | S 10 |
| M11 | 15 15 23 | 20°19'42 | 18°54 | 24°41 | 0♉ 7 | 18°47 | 13° 5 | 20°28 | 19°35 | 14°50 | 19° 9 | 3°28 | 2°42 | 7°35 | 6°32 | M11 |
| T 12 | 15 19 19 | 21°17'34 | 1♎24 | 25°55 | 1°20 | 19°30 | 12°57 | 20°24 | 19°37 | 14°50 | 19°10 | 3°25 | 2°39 | 7°41 | 6°37 | T 12 |
| W13 | 15 23 16 | 22°15'24 | 13°42 | 27°11 | 2°33 | 20°14 | 12°50 | 20°21 | 19°39 | 14°50 | 19°12 | 3°20 | 2°36 | 7°48 | 6°42 | W13 |
| T 14 | 15 27 12 | 23°13'12 | 25°52 | 28°30 | 3°46 | 20°57 | 12°42 | 20°17 | 19°41 | 14°50 | 19°13 | 3°11 | 2°33 | 7°55 | 6°47 | T 14 |
| F 15 | 15 31 9 | 24°10'59 | 7♏55 | 29°52 | 4°59 | 21°40 | 12°35 | 20°13 | 19°42 | 14°50 | 19°14 | 3° 1 | 2°30 | 8° 1 | 6°52 | F 15 |
| S 16 | 15 35 5 | 25° 8'45 | 19°53 | 1♉16 | 6°13 | 22°23 | 12°28 | 20° 9 | 19°44 | 14°50 | 19°15 | 2°48 | 2°26 | 8° 8 | 6°57 | S 16 |
| S 17 | 15 39 2 | 26° 6'29 | 1♐48 | 2°42 | 7°26 | 23° 6 | 12°20 | 20° 6 | 19°46 | 14°R50 | 19°16 | 2°34 | 2°23 | 8°15 | 7° 2 | S 17 |
| M18 | 15 42 58 | 27° 4'12 | 13°41 | 4°10 | 8°39 | 23°49 | 12°13 | 20° 2 | 19°48 | 14°50 | 19°18 | 2°20 | 2°20 | 8°22 | 7° 7 | M18 |
| T 19 | 15 46 55 | 28° 1'53 | 25°33 | 5°41 | 9°52 | 24°32 | 12° 6 | 19°58 | 19°50 | 14°50 | 19°19 | 2° 8 | 2°17 | 8°28 | 7°13 | T 19 |
| W20 | 15 50 52 | 28°59'34 | 7♑27 | 7°14 | 11° 6 | 25°15 | 11°59 | 19°54 | 19°51 | 14°50 | 19°20 | 1°57 | 2°14 | 8°35 | 7°18 | W20 |
| T 21 | 15 54 48 | 29°57'13 | 19°24 | 8°50 | 12°19 | 25°58 | 11°52 | 19°50 | 19°53 | 14°50 | 19°21 | 1°50 | 2°11 | 8°42 | 7°23 | T 21 |
| F 22 | 15 58 45 | 0♊54'51 | 1♒29 | 10°27 | 13°32 | 26°41 | 11°45 | 19°46 | 19°55 | 14°50 | 19°22 | 1°45 | 2° 7 | 8°49 | 7°29 | F 22 |
| S 23 | 16 2 41 | 1°52'28 | 13°44 | 12° 7 | 14°45 | 27°24 | 11°38 | 19°42 | 19°56 | 14°50 | 19°23 | 1°43 | 2° 4 | 8°55 | 7°34 | S 23 |
| S 24 | 16 6 38 | 2°50'04 | 26°15 | 13°50 | 15°59 | 28° 6 | 11°31 | 19°38 | 19°58 | 14°50 | 19°24 | 1°42 | 2° 1 | 9° 2 | 7°40 | S 24 |
| M25 | 16 10 34 | 3°47'39 | 9♓ 5 | 15°34 | 17°12 | 28°49 | 11°25 | 19°34 | 19°59 | 14°49 | 19°25 | 1°42 | 1°58 | 9° 9 | 7°45 | M25 |
| T 26 | 16 14 31 | 4°45'13 | 22°20 | 17°21 | 18°25 | 29°32 | 11°18 | 19°29 | 20° 1 | 14°49 | 19°26 | 1°42 | 1°55 | 9°15 | 7°51 | T 26 |
| W27 | 16 18 27 | 5°42'47 | 6♈ 3 | 19°10 | 19°39 | 0♊14 | 11°12 | 19°25 | 20° 2 | 14°49 | 19°27 | 1°39 | 1°52 | 9°22 | 7°56 | W27 |
| T 28 | 16 22 24 | 6°40'19 | 20°15 | 21° 2 | 20°52 | 0°57 | 11° 5 | 19°21 | 20° 3 | 14°48 | 19°29 | 1°35 | 1°48 | 9°29 | 8° 2 | T 28 |
| F 29 | 16 26 21 | 7°37'51 | 4♉54 | 22°55 | 22° 5 | 1°39 | 10°59 | 19°17 | 20° 5 | 14°48 | 19°30 | 1°27 | 1°45 | 9°36 | 8° 8 | F 29 |
| S 30 | 16 30 17 | 8°35'22 | 19°56 | 24°51 | 23°19 | 2°22 | 10°53 | 19°12 | 20° 6 | 14°48 | 19°31 | 1°18 | 1°42 | 9°42 | 8°13 | S 30 |
| S 31 | 16 34 14 | 9♊32'52 | 5♊12 | 26♉49 | 24♉32 | 3♊ 4 | 10♏47 | 19♐ 8 | 20♓ 7 | 14♒47 | 19♈32 | 1♓ 7 | 1♓39 | 9♐49 | 8♋19 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 15n 2 | 13n58 | 4n 0 | 3n24 | 2s43 | 5n33 | 1s36 | 15n11 | 0s 7 | 14s54 | 1n19 | 21s36 | 1n33 | 4s58 | 0s45 | 16s30 | 0s 5 | 8s 9 | 16s50 | 9s57 | 10s20 | 26s28 | 17n 0 | 6s20 |
| S 2 | 15 20 | 19 44 | 4 39 | 3 35 | 2 49 | 6 1 | 1 36 | 15 25 | 0 6 | 14 52 | 1 19 | 21 36 | 1 33 | 4 57 | 0 45 | 16 30 | 0 5 | 8 9 | 16 50 | 10 0 | 10 21 | 26 29 | 17 0 | 6 20 |
| S 3 | 15 38 | 24 18 | 5 0 | 3 49 | 2 54 | 6 29 | 1 35 | 15 39 | 0 6 | 14 49 | 1 19 | 21 36 | 1 33 | 4 56 | 0 45 | 16 30 | 0 5 | 8 9 | 16 50 | 10 4 | 10 22 | 26 30 | 17 0 | 6 20 |
| M 4 | 15 56 | 27 11 | 4 59 | 4 4 | 2 58 | 6 57 | 1 35 | 15 53 | 0 5 | 14 47 | 1 19 | 21 36 | 1 33 | 4 55 | 0 45 | 16 30 | 0 5 | 8 8 | 16 50 | 10 7 | 10 23 | 26 31 | 17 1 | 6 19 |
| T 5 | 16 13 | 28 3 | 4 38 | 4 22 | 3 2 | 7 25 | 1 34 | 16 7 | 0 5 | 14 45 | 1 19 | 21 35 | 1 33 | 4 54 | 0 45 | 16 30 | 0 5 | 8 8 | 16 50 | 10 10 | 10 24 | 26 32 | 17 1 | 6 19 |
| W 6 | 16 30 | 26 55 | 3 59 | 4 41 | 3 5 | 7 52 | 1 34 | 16 20 | 0 4 | 14 43 | 1 19 | 21 35 | 1 33 | 4 53 | 0 45 | 16 30 | 0 5 | 8 8 | 16 50 | 10 13 | 10 25 | 26 34 | 17 1 | 6 19 |
| T 7 | 16 47 | 24 2 | 3 5 | 5 1 | 3 7 | 8 20 | 1 33 | 16 33 | 0 3 | 14 41 | 1 19 | 21 35 | 1 33 | 4 53 | 0 45 | 16 30 | 0 5 | 8 7 | 16 50 | 10 14 | 10 27 | 26 35 | 17 1 | 6 18 |
| F 8 | 17 3 | 19 49 | 2 3 | 5 23 | 3 8 | 8 47 | 1 32 | 16 47 | 0 3 | 14 38 | 1 19 | 21 35 | 1 33 | 4 52 | 0 45 | 16 29 | 0 5 | 8 7 | 16 51 | 10 14 | 10 28 | 26 36 | 17 1 | 6 18 |
| S 9 | 17 19 | 14 41 | 0 55 | 5 47 | 3 9 | 9 14 | 1 31 | 17 0 | 0 2 | 14 36 | 1 19 | 21 34 | 1 33 | 4 51 | 0 45 | 16 29 | 0 5 | 8 7 | 16 51 | 10 14 | 10 29 | 26 37 | 17 1 | 6 18 |
| S 10 | 17 35 | 9 2 | 0s14 | 6 13 | 3 9 | 9 41 | 1 31 | 17 12 | 0 1 | 14 34 | 1 19 | 21 34 | 1 33 | 4 50 | 0 45 | 16 29 | 0 5 | 8 6 | 16 51 | 10 14 | 10 30 | 26 38 | 17 2 | 6 17 |
| M11 | 17 51 | 3 9 | 1 21 | 6 39 | 3 8 | 10 7 | 1 30 | 17 25 | 0 1 | 14 32 | 1 19 | 21 34 | 1 34 | 4 49 | 0 45 | 16 29 | 0 5 | 8 6 | 16 51 | 10 15 | 10 31 | 26 39 | 17 2 | 6 17 |
| T 12 | 18 6 | 2s44 | 2 22 | 7 7 | 3 7 | 10 34 | 1 29 | 17 37 | 0 0 | 14 30 | 1 19 | 21 34 | 1 34 | 4 49 | 0 45 | 16 29 | 0 5 | 8 6 | 16 51 | 10 16 | 10 32 | 26 40 | 17 2 | 6 17 |
| W13 | 18 21 | 8 25 | 3 15 | 7 36 | 3 5 | 11 0 | 1 28 | 17 50 | 0n 1 | 14 27 | 1 18 | 21 33 | 1 34 | 4 48 | 0 45 | 16 29 | 0 5 | 8 5 | 16 51 | 10 18 | 10 33 | 26 41 | 17 2 | 6 16 |
| T 14 | 18 36 | 13 43 | 3 59 | 8 7 | 3 2 | 11 26 | 1 27 | 18 2 | 0 1 | 14 25 | 1 18 | 21 33 | 1 34 | 4 47 | 0 45 | 16 29 | 0 5 | 8 5 | 16 52 | 10 21 | 10 35 | 26 42 | 17 2 | 6 16 |
| F 15 | 18 50 | 18 27 | 4 32 | 8 38 | 2 59 | 11 51 | 1 25 | 18 14 | 0 2 | 14 23 | 1 18 | 21 33 | 1 34 | 4 46 | 0 45 | 16 29 | 0 5 | 8 5 | 16 52 | 10 25 | 10 36 | 26 43 | 17 2 | 6 16 |
| S 16 | 19 4 | 22 25 | 4 52 | 9 11 | 2 55 | 12 17 | 1 24 | 18 25 | 0 3 | 14 21 | 1 18 | 21 33 | 1 34 | 4 46 | 0 45 | 16 29 | 0 5 | 8 5 | 16 52 | 10 29 | 10 37 | 26 44 | 17 2 | 6 15 |
| S 17 | 19 18 | 25 26 | 4 59 | 9 44 | 2 51 | 12 42 | 1 23 | 18 37 | 0 3 | 14 19 | 1 18 | 21 32 | 1 34 | 4 45 | 0 45 | 16 29 | 0 6 | 8 4 | 16 52 | 10 34 | 10 38 | 26 45 | 17 2 | 6 15 |
| M18 | 19 31 | 27 19 | 4 54 | 10 19 | 2 46 | 13 7 | 1 22 | 18 48 | 0 4 | 14 17 | 1 18 | 21 32 | 1 34 | 4 44 | 0 45 | 16 29 | 0 6 | 8 4 | 16 52 | 10 39 | 10 39 | 26 46 | 17 2 | 6 15 |
| T 19 | 19 44 | 27 58 | 4 35 | 10 54 | 2 41 | 13 31 | 1 20 | 19 0 | 0 4 | 14 15 | 1 18 | 21 32 | 1 34 | 4 44 | 0 45 | 16 29 | 0 6 | 8 4 | 16 53 | 10 44 | 10 40 | 26 47 | 17 2 | 6 14 |
| W20 | 19 57 | 27 20 | 4 5 | 11 30 | 2 35 | 13 55 | 1 19 | 19 11 | 0 5 | 14 13 | 1 17 | 21 31 | 1 34 | 4 43 | 0 45 | 16 29 | 0 6 | 8 4 | 16 53 | 10 47 | 10 41 | 26 48 | 17 2 | 6 14 |
| T 21 | 20 10 | 25 25 | 3 23 | 12 7 | 2 28 | 14 19 | 1 17 | 19 21 | 0 6 | 14 11 | 1 17 | 21 31 | 1 34 | 4 42 | 0 45 | 16 29 | 0 6 | 8 4 | 16 53 | 10 50 | 10 43 | 26 49 | 17 2 | 6 14 |
| F 22 | 20 22 | 22 19 | 2 32 | 12 44 | 2 21 | 14 43 | 1 16 | 19 32 | 0 6 | 14 9 | 1 17 | 21 31 | 1 34 | 4 42 | 0 46 | 16 29 | 0 6 | 8 3 | 16 53 | 10 52 | 10 44 | 26 50 | 17 2 | 6 14 |
| S 23 | 20 33 | 18 13 | 1 33 | 13 22 | 2 14 | 15 6 | 1 14 | 19 43 | 0 7 | 14 7 | 1 17 | 21 30 | 1 33 | 4 41 | 0 46 | 16 29 | 0 6 | 8 3 | 16 53 | 10 52 | 10 45 | 26 51 | 17 2 | 6 13 |
| S 24 | 20 45 | 13 14 | 0 29 | 14 0 | 2 6 | 15 29 | 1 12 | 19 53 | 0 8 | 14 5 | 1 17 | 21 30 | 1 33 | 4 41 | 0 46 | 16 30 | 0 6 | 8 3 | 16 54 | 10 53 | 10 46 | 26 52 | 17 2 | 6 13 |
| M25 | 20 56 | 7 34 | 0n39 | 14 39 | 1 57 | 15 51 | 1 11 | 20 3 | 0 8 | 14 3 | 1 17 | 21 30 | 1 33 | 4 40 | 0 46 | 16 30 | 0 6 | 8 3 | 16 54 | 10 53 | 10 47 | 26 53 | 17 2 | 6 13 |
| T 26 | 21 6 | 1 25 | 1 47 | 15 17 | 1 49 | 16 13 | 1 9 | 20 13 | 0 9 | 14 1 | 1 16 | 21 30 | 1 33 | 4 40 | 0 46 | 16 30 | 0 6 | 8 3 | 16 54 | 10 53 | 10 48 | 26 54 | 17 2 | 6 13 |
| W27 | 21 17 | 5n 1 | 2 51 | 15 56 | 1 39 | 16 35 | 1 7 | 20 22 | 0 9 | 14 0 | 1 16 | 21 29 | 1 33 | 4 39 | 0 46 | 16 30 | 0 6 | 8 2 | 16 54 | 10 54 | 10 49 | 26 55 | 17 2 | 6 12 |
| T 28 | 21 27 | 11 25 | 3 46 | 16 35 | 1 30 | 16 56 | 1 5 | 20 32 | 0 10 | 13 58 | 1 16 | 21 29 | 1 33 | 4 39 | 0 46 | 16 30 | 0 6 | 8 2 | 16 55 | 10 55 | 10 51 | 26 56 | 17 2 | 6 12 |
| F 29 | 21 36 | 17 23 | 4 29 | 17 14 | 1 20 | 17 17 | 1 4 | 20 41 | 0 11 | 13 56 | 1 16 | 21 29 | 1 33 | 4 38 | 0 46 | 16 30 | 0 6 | 8 2 | 16 55 | 10 58 | 10 52 | 26 57 | 17 1 | 6 12 |
| S 30 | 21 45 | 22 28 | 4 55 | 17 52 | 1 10 | 17 37 | 1 2 | 20 50 | 0 11 | 13 54 | 1 16 | 21 28 | 1 33 | 4 38 | 0 46 | 16 30 | 0 6 | 8 2 | 16 55 | 11 1 | 10 53 | 26 58 | 17 1 | 6 12 |
| S 31 | 21n54 | 26n 6 | 5n 0 | 18n30 | 1s 0 | 17n57 | 1s 0 | 20n59 | 0n12 | 13s53 | 1n16 | 21s28 | 1n33 | 4s37 | 0s46 | 16s30 | 0s 6 | 8s 2 | 16s55 | 11s 5 | 10s54 | 26s59 | 17n 1 | 6s12 |

Julian Day Number = 2393226.5, Delta T = 7.60 sec
Ecliptic obliquity = 23°27'45, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°30'39, Lahiri = 21°37'39

# ASTRODIENST EPHEMERIS for the year 1840
# geocentric

## JUNE 1840 — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 16 38 10 | 10♊30'21 | 20♊32 | 28♉49 | 25♉45 | 3♊46 | 10°R41 | 19°R 4 | 20♓ 8 | 14°R47 | 19♈32 | 0°R57 | 1♓36 | 9♐56 | 8♋25 | M 1 |
| T 2 | 16 42 7 | 11°27'49 | 5♋42 | 0♊51 | 26°59 | 4°29 | 10♏36 | 18♐59 | 20°10 | 14♒46 | 19°33 | 0♓47 | 1°32 | 10° 2 | 8°31 | T 2 |
| W 3 | 16 46 3 | 12°25'16 | 20°35 | 2°54 | 28°12 | 5°11 | 10°30 | 18°55 | 20°11 | 14°46 | 19°34 | 0°40 | 1°29 | 10° 9 | 8°37 | W 3 |
| T 4 | 16 50 0 | 13°22'42 | 5♌ 2 | 5° 0 | 29°25 | 5°53 | 10°24 | 18°51 | 20°12 | 14°45 | 19°35 | 0°36 | 1°26 | 10°16 | 8°43 | T 4 |
| F 5 | 16 53 57 | 14°20'06 | 19° 1 | 7° 7 | 0♊39 | 6°35 | 10°19 | 18°46 | 20°13 | 14°45 | 19°36 | 0°34 | 1°23 | 10°23 | 8°48 | F 5 |
| S 6 | 16 57 53 | 15°17'30 | 2♍32 | 9°16 | 1°52 | 7°17 | 10°14 | 18°42 | 20°14 | 14°44 | 19°37 | 0°D34 | 1°20 | 10°29 | 8°54 | S 6 |
| S 7 | 17 1 50 | 16°14'52 | 15°37 | 11°25 | 3° 5 | 7°59 | 10° 9 | 18°37 | 20°14 | 14°43 | 19°38 | 0°R34 | 1°17 | 10°36 | 9° 0 | S 7 |
| M 8 | 17 5 46 | 17°12'13 | 28°20 | 13°36 | 4°19 | 8°41 | 10° 4 | 18°33 | 20°15 | 14°43 | 19°39 | 0°33 | 1°13 | 10°43 | 9° 6 | M 8 |
| T 9 | 17 9 43 | 18° 9'33 | 10♎45 | 15°47 | 5°32 | 9°23 | 9°59 | 18°28 | 20°16 | 14°42 | 19°40 | 0°31 | 1°10 | 10°50 | 9°12 | T 9 |
| W10 | 17 13 39 | 19° 6'52 | 22°57 | 17°59 | 6°45 | 10° 5 | 9°55 | 18°24 | 20°17 | 14°41 | 19°41 | 0°27 | 1° 7 | 10°56 | 9°18 | W10 |
| T 11 | 17 17 36 | 20° 4'11 | 5♏ 0 | 20°11 | 7°59 | 10°47 | 9°50 | 18°20 | 20°18 | 14°41 | 19°41 | 0°20 | 1° 4 | 11° 3 | 9°25 | T 11 |
| F 12 | 17 21 32 | 21° 1'28 | 16°57 | 22°23 | 9°12 | 11°28 | 9°46 | 18°15 | 20°18 | 14°40 | 19°42 | 0°10 | 1° 1 | 11°10 | 9°31 | F 12 |
| S 13 | 17 25 29 | 21°58'45 | 28°51 | 24°35 | 10°26 | 12°10 | 9°42 | 18°11 | 20°19 | 14°39 | 19°43 | 29♒59 | 0°58 | 11°16 | 9°37 | S 13 |
| S 14 | 17 29 26 | 22°56'01 | 10♐43 | 26°46 | 11°39 | 12°52 | 9°38 | 18° 6 | 20°19 | 14°38 | 19°44 | 29°47 | 0°54 | 11°23 | 9°43 | S 14 |
| M15 | 17 33 22 | 23°53'16 | 22°36 | 28°56 | 12°52 | 13°33 | 9°34 | 18° 2 | 20°20 | 14°37 | 19°44 | 29°35 | 0°51 | 11°30 | 9°49 | M15 |
| T 16 | 17 37 19 | 24°50'31 | 4♑31 | 1♋ 4 | 14° 6 | 14°15 | 9°31 | 17°58 | 20°20 | 14°37 | 19°45 | 29°24 | 0°48 | 11°37 | 9°55 | T 16 |
| W17 | 17 41 15 | 25°47'45 | 16°30 | 3°12 | 15°19 | 14°56 | 9°27 | 17°53 | 20°21 | 14°36 | 19°46 | 29°15 | 0°45 | 11°43 | 10° 1 | W17 |
| T 18 | 17 45 12 | 26°44'59 | 28°33 | 5°18 | 16°33 | 15°38 | 9°24 | 17°49 | 20°21 | 14°35 | 19°46 | 29° 8 | 0°42 | 11°50 | 10° 8 | T 18 |
| F 19 | 17 49 8 | 27°42'13 | 10♒45 | 7°23 | 17°46 | 16°19 | 9°21 | 17°45 | 20°21 | 14°34 | 19°47 | 29° 4 | 0°38 | 11°57 | 10°14 | F 19 |
| S 20 | 17 53 5 | 28°39'26 | 23° 6 | 9°25 | 19° 0 | 17° 0 | 9°18 | 17°40 | 20°22 | 14°33 | 19°48 | 29° 3 | 0°35 | 12° 4 | 10°20 | S 20 |
| S 21 | 17 57 1 | 29°36'39 | 5♓41 | 11°26 | 20°13 | 17°42 | 9°15 | 17°36 | 20°22 | 14°32 | 19°48 | 29°D 3 | 0°32 | 12°10 | 10°26 | S 21 |
| M22 | 18 0 58 | 0♋33'52 | 18°33 | 13°25 | 21°27 | 18°23 | 9°12 | 17°32 | 20°22 | 14°31 | 19°49 | 29° 3 | 0°29 | 12°17 | 10°33 | M22 |
| T 23 | 18 4 55 | 1°31'05 | 1♈46 | 15°22 | 22°40 | 19° 4 | 9°10 | 17°27 | 20°22 | 14°30 | 19°50 | 29°R 4 | 0°26 | 12°24 | 10°39 | T 23 |
| W24 | 18 8 51 | 2°28'18 | 15°23 | 17°17 | 23°54 | 19°45 | 9° 8 | 17°23 | 20°22 | 14°29 | 19°50 | 29° 3 | 0°23 | 12°30 | 10°45 | W24 |
| T 25 | 18 12 48 | 3°25'31 | 29°25 | 19°10 | 25° 7 | 20°26 | 9° 5 | 17°19 | 20°R22 | 14°27 | 19°51 | 29° 0 | 0°19 | 12°37 | 10°52 | T 25 |
| F 26 | 18 16 44 | 4°22'44 | 13♉53 | 21° 0 | 26°21 | 21° 7 | 9° 4 | 17°15 | 20°22 | 14°26 | 19°51 | 28°56 | 0°16 | 12°44 | 10°58 | F 26 |
| S 27 | 18 20 41 | 5°19'57 | 28°42 | 22°49 | 27°34 | 21°49 | 9° 2 | 17°11 | 20°22 | 14°25 | 19°52 | 28°49 | 0°13 | 12°51 | 11° 4 | S 27 |
| S 28 | 18 24 37 | 6°17'11 | 13♊47 | 24°35 | 28°48 | 22°29 | 9° 0 | 17° 7 | 20°22 | 14°24 | 19°52 | 28°42 | 0°10 | 12°57 | 11°11 | S 28 |
| M29 | 18 28 34 | 7°14'24 | 28°58 | 26°20 | 0♋ 2 | 23°10 | 8°59 | 17° 3 | 20°22 | 14°23 | 19°53 | 28°34 | 0° 7 | 13° 4 | 11°17 | M29 |
| T 30 | 18 32 30 | 8♋11'37 | 14♋ 5 | 28♋ 2 | 1♋15 | 23♊51 | 8♏58 | 16♐59 | 20♓22 | 14♒22 | 19♈53 | 28♒27 | 0♓ 4 | 13♐11 | 11♋23 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| M 1 | 22n 3 | 27n50 | 4n43 | 19n 7 | 0s49 | 18n17 | 0s58 | 21n 8 | 0n13 | 13s51 | 1n15 | 21s28 | 1n33 | 4s37 | 0s46 | 16s30 | 0s 6 | 8s 2 | 16s56 | 11s 9 | 10s55 | 27s 0 | 17n 1 | 6s11 | M 1 |
| T 2 | 22 11 | 27 27 | 4 7 | 19 43 | 0 38 | 18 36 | 0 56 | 21 16 | 0 13 | 13 50 | 1 15 | 21 27 | 1 33 | 4 36 | 0 46 | 16 31 | 0 6 | 8 2 | 16 56 | 11 12 | 10 56 | 27 1 | 17 1 | 6 11 | T 2 |
| W 3 | 22 18 | 25 5 | 3 15 | 20 19 | 0 27 | 18 54 | 0 54 | 21 25 | 0 14 | 13 48 | 1 15 | 21 27 | 1 33 | 4 36 | 0 46 | 16 31 | 0 6 | 8 2 | 16 56 | 11 15 | 10 57 | 27 1 | 17 1 | 6 11 | W 3 |
| T 4 | 22 26 | 21 8 | 2 11 | 20 53 | 0 17 | 19 12 | 0 52 | 21 33 | 0 14 | 13 46 | 1 15 | 21 27 | 1 33 | 4 36 | 0 46 | 16 31 | 0 6 | 8 2 | 16 57 | 11 16 | 10 58 | 27 2 | 17 1 | 6 11 | T 4 |
| F 5 | 22 32 | 16 6 | 1 1 | 21 26 | 0 6 | 19 30 | 0 49 | 21 41 | 0 15 | 13 45 | 1 14 | 21 27 | 1 33 | 4 35 | 0 46 | 16 31 | 0 6 | 8 1 | 16 57 | 11 17 | 11 0 | 27 3 | 17 0 | 6 11 | F 5 |
| S 6 | 22 39 | 10 25 | 0s10 | 21 57 | 0n 5 | 19 47 | 0 47 | 21 48 | 0 16 | 13 44 | 1 14 | 21 26 | 1 33 | 4 35 | 0 46 | 16 31 | 0 6 | 8 1 | 16 57 | 11 17 | 11 1 | 27 4 | 17 0 | 6 10 | S 6 |
| S 7 | 22 45 | 4 28 | 1 19 | 22 26 | 0 16 | 20 3 | 0 45 | 21 56 | 0 16 | 13 42 | 1 14 | 21 26 | 1 33 | 4 35 | 0 46 | 16 31 | 0 6 | 8 1 | 16 57 | 11 17 | 11 2 | 27 5 | 17 0 | 6 10 | S 7 |
| M 8 | 22 51 | 1s30 | 2 21 | 22 53 | 0 26 | 20 19 | 0 43 | 22 3 | 0 17 | 13 41 | 1 14 | 21 26 | 1 33 | 4 34 | 0 46 | 16 32 | 0 6 | 8 1 | 16 58 | 11 17 | 11 3 | 27 6 | 17 0 | 6 10 | M 8 |
| T 9 | 22 56 | 7 16 | 3 16 | 23 18 | 0 36 | 20 35 | 0 41 | 22 10 | 0 18 | 13 40 | 1 14 | 21 25 | 1 33 | 4 34 | 0 46 | 16 32 | 0 6 | 8 1 | 16 58 | 11 18 | 11 4 | 27 7 | 16 59 | 6 10 | T 9 |
| W10 | 23 1 | 12 39 | 4 0 | 23 41 | 0 46 | 20 50 | 0 38 | 22 17 | 0 18 | 13 38 | 1 13 | 21 25 | 1 33 | 4 34 | 0 46 | 16 32 | 0 6 | 8 1 | 16 58 | 11 19 | 11 5 | 27 7 | 16 59 | 6 10 | W10 |
| T 11 | 23 5 | 17 29 | 4 33 | 24 1 | 0 55 | 21 4 | 0 36 | 22 23 | 0 19 | 13 37 | 1 13 | 21 25 | 1 33 | 4 33 | 0 46 | 16 32 | 0 6 | 8 1 | 16 59 | 11 22 | 11 6 | 27 8 | 16 59 | 6 10 | T 11 |
| F 12 | 23 9 | 21 36 | 4 54 | 24 18 | 1 4 | 21 18 | 0 34 | 22 30 | 0 19 | 13 36 | 1 13 | 21 24 | 1 33 | 4 33 | 0 46 | 16 33 | 0 6 | 8 1 | 16 59 | 11 25 | 11 7 | 27 9 | 16 58 | 6 10 | F 12 |
| S 13 | 23 13 | 24 49 | 5 2 | 24 33 | 1 12 | 21 31 | 0 32 | 22 36 | 0 20 | 13 35 | 1 13 | 21 24 | 1 32 | 4 33 | 0 46 | 16 33 | 0 6 | 8 1 | 16 59 | 11 29 | 11 9 | 27 10 | 16 58 | 6 10 | S 13 |
| S 14 | 23 16 | 26 58 | 4 56 | 24 45 | 1 19 | 21 43 | 0 29 | 22 42 | 0 21 | 13 34 | 1 12 | 21 24 | 1 32 | 4 33 | 0 46 | 16 33 | 0 6 | 8 1 | 16 59 | 11 34 | 11 10 | 27 11 | 16 58 | 6 9 | S 14 |
| M15 | 23 19 | 27 53 | 4 38 | 24 54 | 1 26 | 21 55 | 0 27 | 22 48 | 0 21 | 13 33 | 1 12 | 21 23 | 1 32 | 4 33 | 0 46 | 16 33 | 0 6 | 8 1 | 17 0 | 11 38 | 11 11 | 27 11 | 16 58 | 6 9 | M15 |
| T 16 | 23 22 | 27 31 | 4 8 | 25 0 | 1 33 | 22 7 | 0 24 | 22 53 | 0 22 | 13 32 | 1 12 | 21 23 | 1 32 | 4 33 | 0 46 | 16 34 | 0 6 | 8 1 | 17 0 | 11 42 | 11 12 | 27 12 | 16 57 | 6 9 | T 16 |
| W17 | 23 24 | 25 51 | 3 26 | 25 4 | 1 38 | 22 17 | 0 22 | 22 59 | 0 22 | 13 31 | 1 12 | 21 23 | 1 32 | 4 32 | 0 46 | 16 34 | 0 6 | 8 1 | 17 0 | 11 45 | 11 13 | 27 13 | 16 57 | 6 9 | W17 |
| T 18 | 23 25 | 23 0 | 2 35 | 25 4 | 1 43 | 22 27 | 0 20 | 23 4 | 0 23 | 13 30 | 1 11 | 21 23 | 1 32 | 4 32 | 0 47 | 16 34 | 0 6 | 8 1 | 17 1 | 11 47 | 11 14 | 27 14 | 16 56 | 6 9 | T 18 |
| F 19 | 23 27 | 19 6 | 1 36 | 25 2 | 1 47 | 22 37 | 0 17 | 23 9 | 0 24 | 13 30 | 1 11 | 21 22 | 1 32 | 4 32 | 0 47 | 16 34 | 0 6 | 8 1 | 17 1 | 11 48 | 11 15 | 27 15 | 16 56 | 6 9 | F 19 |
| S 20 | 23 27 | 14 20 | 0 32 | 24 58 | 1 50 | 22 45 | 0 15 | 23 14 | 0 24 | 13 29 | 1 11 | 21 22 | 1 32 | 4 32 | 0 47 | 16 35 | 0 6 | 8 2 | 17 1 | 11 49 | 11 16 | 27 15 | 16 56 | 6 9 | S 20 |
| S 21 | 23 28 | 8 53 | 0n35 | 24 51 | 1 53 | 22 54 | 0 12 | 23 18 | 0 25 | 13 28 | 1 11 | 21 22 | 1 32 | 4 32 | 0 47 | 16 35 | 0 6 | 8 2 | 17 2 | 11 49 | 11 18 | 27 16 | 16 55 | 6 9 | S 21 |
| M22 | 23 28 | 2 58 | 1 42 | 24 41 | 1 55 | 23 1 | 0 10 | 23 22 | 0 25 | 13 28 | 1 10 | 21 21 | 1 32 | 4 32 | 0 47 | 16 35 | 0 6 | 8 2 | 17 2 | 11 49 | 11 19 | 27 17 | 16 55 | 6 9 | M22 |
| T 23 | 23 27 | 3n14 | 2 46 | 24 30 | 1 56 | 23 8 | 0 8 | 23 27 | 0 26 | 13 27 | 1 10 | 21 21 | 1 31 | 4 32 | 0 47 | 16 36 | 0 6 | 8 2 | 17 2 | 11 49 | 11 20 | 27 18 | 16 54 | 6 9 | T 23 |
| W24 | 23 26 | 9 28 | 3 42 | 24 16 | 1 56 | 23 14 | 0 5 | 23 30 | 0 27 | 13 27 | 1 10 | 21 21 | 1 31 | 4 32 | 0 47 | 16 36 | 0 6 | 8 2 | 17 3 | 11 49 | 11 21 | 27 18 | 16 54 | 6 9 | W24 |
| T 25 | 23 25 | 15 26 | 4 26 | 24 0 | 1 56 | 23 20 | 0 3 | 23 34 | 0 27 | 13 26 | 1 10 | 21 21 | 1 31 | 4 32 | 0 47 | 16 36 | 0 6 | 8 2 | 17 3 | 11 50 | 11 22 | 27 19 | 16 53 | 6 9 | T 25 |
| F 26 | 23 23 | 20 43 | 4 55 | 23 43 | 1 55 | 23 24 | 0 0 | 23 38 | 0 28 | 13 26 | 1 9 | 21 20 | 1 31 | 4 32 | 0 47 | 16 37 | 0 6 | 8 2 | 17 3 | 11 51 | 11 23 | 27 20 | 16 53 | 6 9 | F 26 |
| S 27 | 23 21 | 24 52 | 5 6 | 23 24 | 1 53 | 23 28 | 0n 2 | 23 41 | 0 28 | 13 26 | 1 9 | 21 20 | 1 31 | 4 32 | 0 47 | 16 37 | 0 6 | 8 2 | 17 4 | 11 54 | 11 24 | 27 20 | 16 52 | 6 9 | S 27 |
| S 28 | 23 19 | 27 22 | 4 55 | 23 3 | 1 51 | 23 32 | 0 4 | 23 44 | 0 29 | 13 25 | 1 9 | 21 20 | 1 31 | 4 32 | 0 47 | 16 37 | 0 6 | 8 2 | 17 4 | 11 56 | 11 25 | 27 21 | 16 52 | 6 9 | S 28 |
| M29 | 23 16 | 27 52 | 4 24 | 22 40 | 1 48 | 23 35 | 0 7 | 23 47 | 0 29 | 13 25 | 1 9 | 21 20 | 1 31 | 4 32 | 0 47 | 16 38 | 0 6 | 8 3 | 17 4 | 11 59 | 11 27 | 27 22 | 16 51 | 6 9 | M29 |
| T 30 | 23n13 | 26n17 | 3n35 | 22n17 | 1n44 | 23n37 | 0n 9 | 23n49 | 0n30 | 13s25 | 1n 8 | 21s19 | 1n31 | 4s32 | 0s47 | 16s38 | 0s 6 | 8s 3 | 17s 5 | 12s 1 | 11s28 | 27s22 | 16n51 | 6s 9 | T 30 |

Julian Day Number = 2393257.5, Delta T = 7.60 sec
Ecliptic obliquity = 23°27'44, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°30'43, Lahiri = 21°37'43

# ASTRODIENST EPHEMERIS for the year 1840
# geocentric

## JULY 1840

00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 18 36 27 | 9♋ 8'51 | 28♋58 | 29♋42 | 2♋29 | 24♊32 | 8°R57 | 16°R55 | 20°R21 | 14°R20 | 19♈53 | 28°R22 | 0♓ 0 | 13♐17 | 11♋30 | W 1 |
| T 2 | 18 40 24 | 10° 6'03 | 13♌29 | 1♌20 | 3°42 | 25°13 | 8♏56 | 16♐51 | 20♓21 | 14♒19 | 19°54 | 28♒19 | 29♒57 | 13°24 | 11°36 | T 2 |
| F 3 | 18 44 20 | 11° 3'16 | 27°34 | 2°55 | 4°56 | 25°54 | 8°55 | 16°47 | 20°21 | 14°18 | 19°54 | 28°D18 | 29°54 | 13°31 | 11°42 | F 3 |
| S 4 | 18 48 17 | 12° 0'29 | 11♍11 | 4°29 | 6°10 | 26°34 | 8°55 | 16°43 | 20°20 | 14°16 | 19°55 | 28°19 | 29°51 | 13°38 | 11°49 | S 4 |
| S 5 | 18 52 13 | 12°57'41 | 24°22 | 6° 0 | 7°23 | 27°15 | 8°55 | 16°40 | 20°20 | 14°15 | 19°55 | 28°20 | 29°48 | 13°44 | 11°55 | S 5 |
| M 6 | 18 56 10 | 13°54'53 | 7♎ 9 | 7°29 | 8°37 | 27°56 | 8°D54 | 16°36 | 20°19 | 14°14 | 19°55 | 28°21 | 29°44 | 13°51 | 12° 2 | M 6 |
| T 7 | 19 0 6 | 14°52'05 | 19°36 | 8°56 | 9°51 | 28°36 | 8°54 | 16°32 | 20°19 | 14°12 | 19°56 | 28°R21 | 29°41 | 13°58 | 12° 8 | T 7 |
| W 8 | 19 4 3 | 15°49'16 | 1♏48 | 10°21 | 11° 4 | 29°17 | 8°55 | 16°29 | 20°18 | 14°11 | 19°56 | 28°20 | 29°38 | 14° 4 | 12°14 | W 8 |
| T 9 | 19 7 59 | 16°46'28 | 13°49 | 11°43 | 12°18 | 29°57 | 8°55 | 16°25 | 20°18 | 14°10 | 19°56 | 28°17 | 29°35 | 14°11 | 12°21 | T 9 |
| F 10 | 19 11 56 | 17°43'40 | 25°44 | 13° 3 | 13°32 | 0♋37 | 8°56 | 16°22 | 20°17 | 14° 8 | 19°56 | 28°12 | 29°32 | 14°18 | 12°27 | F 10 |
| S 11 | 19 15 53 | 18°40'52 | 7♐36 | 14°21 | 14°46 | 1°18 | 8°57 | 16°18 | 20°16 | 14° 7 | 19°56 | 28° 6 | 29°29 | 14°25 | 12°34 | S 11 |
| S 12 | 19 19 49 | 19°38'04 | 19°29 | 15°36 | 15°59 | 1°58 | 8°58 | 16°15 | 20°15 | 14° 5 | 19°57 | 27°59 | 29°25 | 14°31 | 12°40 | S 12 |
| M13 | 19 23 46 | 20°35'16 | 1♑24 | 16°49 | 17°13 | 2°38 | 8°59 | 16°12 | 20°15 | 14° 4 | 19°57 | 27°52 | 29°22 | 14°38 | 12°46 | M13 |
| T 14 | 19 27 42 | 21°32'29 | 13°25 | 17°59 | 18°27 | 3°19 | 9° 0 | 16° 9 | 20°14 | 14° 3 | 19°57 | 27°46 | 29°19 | 14°45 | 12°53 | T 14 |
| W15 | 19 31 39 | 22°29'41 | 25°32 | 19° 6 | 19°41 | 3°59 | 9° 2 | 16° 5 | 20°13 | 14° 1 | 19°57 | 27°41 | 29°16 | 14°52 | 12°59 | W15 |
| T 16 | 19 35 35 | 23°26'55 | 7♒46 | 20°11 | 20°54 | 4°39 | 9° 3 | 16° 2 | 20°12 | 14° 0 | 19°57 | 27°38 | 29°13 | 14°58 | 13° 5 | T 16 |
| F 17 | 19 39 32 | 24°24'08 | 20°11 | 21°13 | 22° 8 | 5°19 | 9° 5 | 15°59 | 20°11 | 13°58 | 19°57 | 27°36 | 29°10 | 15° 5 | 13°12 | F 17 |
| S 18 | 19 43 29 | 25°21'23 | 2♓46 | 22°13 | 23°22 | 5°59 | 9° 7 | 15°56 | 20°10 | 13°57 | 19°57 | 27°D36 | 29° 6 | 15°12 | 13°18 | S 18 |
| S 19 | 19 47 25 | 26°18'37 | 15°34 | 23° 9 | 24°36 | 6°39 | 9° 9 | 15°54 | 20° 9 | 13°55 | 19°57 | 27°37 | 29° 3 | 15°18 | 13°24 | S 19 |
| M20 | 19 51 22 | 27°15'53 | 28°36 | 24° 2 | 25°50 | 7°19 | 9°12 | 15°51 | 20° 8 | 13°53 | 19°R57 | 27°38 | 29° 0 | 15°25 | 13°31 | M20 |
| T 21 | 19 55 18 | 28°13'09 | 11♈55 | 24°52 | 27° 4 | 7°59 | 9°14 | 15°48 | 20° 6 | 13°52 | 19°57 | 27°40 | 28°57 | 15°32 | 13°37 | T 21 |
| W22 | 19 59 15 | 29°10'27 | 25°33 | 25°38 | 28°18 | 8°39 | 9°17 | 15°45 | 20° 5 | 13°50 | 19°57 | 27°R41 | 28°54 | 15°39 | 13°43 | W22 |
| T 23 | 20 3 11 | 0♌ 7'45 | 9♉29 | 26°21 | 29°32 | 9°19 | 9°20 | 15°43 | 20° 4 | 13°49 | 19°57 | 27°40 | 28°50 | 15°45 | 13°49 | T 23 |
| F 24 | 20 7 8 | 1° 5'04 | 23°45 | 27° 1 | 0♌45 | 9°58 | 9°23 | 15°40 | 20° 3 | 13°47 | 19°57 | 27°39 | 28°47 | 15°52 | 13°56 | F 24 |
| S 25 | 20 11 4 | 2° 2'25 | 8♊16 | 27°36 | 1°59 | 10°38 | 9°26 | 15°38 | 20° 1 | 13°46 | 19°57 | 27°37 | 28°44 | 15°59 | 14° 2 | S 25 |
| S 26 | 20 15 1 | 2°59'46 | 23° 1 | 28° 8 | 3°13 | 11°18 | 9°30 | 15°36 | 20° 0 | 13°44 | 19°57 | 27°33 | 28°41 | 16° 5 | 14° 8 | S 26 |
| M27 | 20 18 58 | 3°57'09 | 7♋50 | 28°35 | 4°27 | 11°57 | 9°33 | 15°34 | 19°59 | 13°42 | 19°57 | 27°30 | 28°38 | 16°12 | 14°14 | M27 |
| T 28 | 20 22 54 | 4°54'32 | 22°39 | 28°58 | 5°41 | 12°37 | 9°37 | 15°32 | 19°57 | 13°41 | 19°57 | 27°27 | 28°35 | 16°19 | 14°20 | T 28 |
| W29 | 20 26 51 | 5°51'56 | 7♌18 | 29°16 | 6°55 | 13°17 | 9°41 | 15°29 | 19°56 | 13°39 | 19°57 | 27°25 | 28°31 | 16°26 | 14°26 | W29 |
| T 30 | 20 30 47 | 6°49'21 | 21°40 | 29°30 | 8° 9 | 13°56 | 9°45 | 15°28 | 19°54 | 13°38 | 19°56 | 27°D25 | 28°28 | 16°32 | 14°33 | T 30 |
| F 31 | 20 34 44 | 7♌46'47 | 5♍42 | 29♌39 | 9♌23 | 14♋36 | 9♏49 | 15♐26 | 19♓53 | 13♒36 | 19♈56 | 27♒25 | 28♒25 | 16♐39 | 14♋39 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 23n 9 | 22n51 | 2n31 | 21n52 | 1n40 | 23n38 | 0n12 | 23n52 | 0n31 | 13s25 | 1n 8 | 21s19 | 1n30 | 4s33 | 0s47 | 16s39 | 0s 6 | 8s 3 | 17s 5 | 12s 3 | 11s29 | 27s23 | 16n50 | 6s 9 |
| T 2 | 23 5 | 18 3 | 1 19 | 21 26 | 1 35 | 23 39 | 0 14 | 23 54 | 0 31 | 13 25 | 1 8 | 21 19 | 1 30 | 4 33 | 0 47 | 16 39 | 0 6 | 8 3 | 17 5 | 12 4 | 11 30 | 27 24 | 16 50 | 6 9 |
| F 3 | 23 0 | 12 23 | 0 4 | 20 59 | 1 30 | 23 38 | 0 16 | 23 56 | 0 32 | 13 25 | 1 7 | 21 19 | 1 30 | 4 33 | 0 47 | 16 39 | 0 6 | 8 3 | 17 6 | 12 4 | 11 31 | 27 24 | 16 49 | 6 9 |
| S 4 | 22 55 | 6 19 | 1s 9 | 20 31 | 1 24 | 23 38 | 0 19 | 23 57 | 0 32 | 13 25 | 1 7 | 21 18 | 1 30 | 4 33 | 0 47 | 16 40 | 0 6 | 8 3 | 17 6 | 12 4 | 11 32 | 27 25 | 16 49 | 6 9 |
| S 5 | 22 50 | 0 10 | 2 16 | 20 3 | 1 18 | 23 36 | 0 21 | 23 59 | 0 33 | 13 25 | 1 7 | 21 18 | 1 30 | 4 33 | 0 47 | 16 40 | 0 6 | 8 4 | 17 6 | 12 4 | 11 33 | 27 26 | 16 48 | 6 9 |
| M 6 | 22 44 | 5s49 | 3 14 | 19 33 | 1 11 | 23 34 | 0 23 | 24 0 | 0 33 | 13 26 | 1 7 | 21 18 | 1 30 | 4 34 | 0 47 | 16 41 | 0 6 | 8 4 | 17 7 | 12 3 | 11 34 | 27 26 | 16 47 | 6 9 |
| T 7 | 22 38 | 11 24 | 4 2 | 19 4 | 1 3 | 23 31 | 0 26 | 24 1 | 0 34 | 13 26 | 1 6 | 21 18 | 1 30 | 4 34 | 0 47 | 16 41 | 0 6 | 8 4 | 17 7 | 12 3 | 11 36 | 27 27 | 16 47 | 6 9 |
| W 8 | 22 31 | 16 26 | 4 37 | 18 33 | 0 56 | 23 28 | 0 28 | 24 2 | 0 35 | 13 26 | 1 6 | 21 17 | 1 29 | 4 34 | 0 47 | 16 41 | 0 6 | 8 4 | 17 8 | 12 4 | 11 37 | 27 28 | 16 46 | 6 9 |
| T 9 | 22 24 | 20 46 | 5 0 | 18 3 | 0 47 | 23 23 | 0 30 | 24 3 | 0 35 | 13 27 | 1 6 | 21 17 | 1 29 | 4 34 | 0 47 | 16 42 | 0 6 | 8 5 | 17 8 | 12 5 | 11 38 | 27 28 | 16 46 | 6 9 |
| F 10 | 22 17 | 24 12 | 5 9 | 17 32 | 0 38 | 23 18 | 0 32 | 24 3 | 0 36 | 13 27 | 1 6 | 21 17 | 1 29 | 4 35 | 0 47 | 16 42 | 0 6 | 8 5 | 17 8 | 12 7 | 11 39 | 27 29 | 16 45 | 6 9 |
| S 11 | 22 9 | 26 37 | 5 5 | 17 0 | 0 29 | 23 13 | 0 34 | 24 4 | 0 36 | 13 28 | 1 5 | 21 17 | 1 29 | 4 35 | 0 47 | 16 43 | 0 6 | 8 5 | 17 9 | 12 9 | 11 40 | 27 29 | 16 44 | 6 9 |
| S 12 | 22 1 | 27 50 | 4 48 | 16 29 | 0 20 | 23 7 | 0 37 | 24 4 | 0 37 | 13 28 | 1 5 | 21 17 | 1 29 | 4 35 | 0 47 | 16 43 | 0 6 | 8 5 | 17 9 | 12 11 | 11 41 | 27 30 | 16 44 | 6 10 |
| M13 | 21 53 | 27 46 | 4 18 | 15 58 | 0 10 | 22 59 | 0 39 | 24 4 | 0 37 | 13 29 | 1 5 | 21 17 | 1 29 | 4 36 | 0 47 | 16 43 | 0 6 | 8 6 | 17 9 | 12 14 | 11 42 | 27 30 | 16 43 | 6 10 |
| T 14 | 21 44 | 26 23 | 3 37 | 15 27 | 0s 1 | 22 52 | 0 41 | 24 3 | 0 38 | 13 29 | 1 5 | 21 16 | 1 29 | 4 36 | 0 47 | 16 44 | 0 6 | 8 6 | 17 10 | 12 16 | 11 43 | 27 31 | 16 42 | 6 10 |
| W15 | 21 35 | 23 46 | 2 46 | 14 56 | 0 12 | 22 43 | 0 43 | 24 3 | 0 39 | 13 30 | 1 4 | 21 16 | 1 28 | 4 36 | 0 48 | 16 44 | 0 6 | 8 6 | 17 10 | 12 17 | 11 44 | 27 32 | 16 41 | 6 10 |
| T 16 | 21 25 | 20 3 | 1 46 | 14 25 | 0 23 | 22 34 | 0 45 | 24 2 | 0 39 | 13 31 | 1 4 | 21 16 | 1 28 | 4 37 | 0 48 | 16 45 | 0 6 | 8 6 | 17 10 | 12 18 | 11 46 | 27 32 | 16 41 | 6 10 |
| F 17 | 21 15 | 15 25 | 0 40 | 13 54 | 0 34 | 22 25 | 0 47 | 24 1 | 0 40 | 13 32 | 1 4 | 21 16 | 1 28 | 4 37 | 0 48 | 16 45 | 0 6 | 8 7 | 17 11 | 12 19 | 11 47 | 27 33 | 16 40 | 6 10 |
| S 18 | 21 5 | 10 4 | 0n28 | 13 24 | 0 46 | 22 14 | 0 49 | 24 0 | 0 40 | 13 33 | 1 4 | 21 16 | 1 28 | 4 38 | 0 48 | 16 46 | 0 6 | 8 7 | 17 11 | 12 19 | 11 48 | 27 33 | 16 39 | 6 10 |
| S 19 | 20 55 | 4 13 | 1 37 | 12 55 | 0 58 | 22 3 | 0 51 | 23 58 | 0 41 | 13 34 | 1 3 | 21 16 | 1 28 | 4 38 | 0 48 | 16 46 | 0 6 | 8 7 | 17 11 | 12 19 | 11 49 | 27 34 | 16 38 | 6 11 |
| M20 | 20 44 | 1n55 | 2 41 | 12 26 | 1 10 | 21 52 | 0 53 | 23 57 | 0 41 | 13 35 | 1 3 | 21 16 | 1 28 | 4 39 | 0 48 | 16 47 | 0 6 | 8 8 | 17 12 | 12 18 | 11 50 | 27 34 | 16 38 | 6 11 |
| T 21 | 20 32 | 8 5 | 3 39 | 11 57 | 1 22 | 21 39 | 0 54 | 23 55 | 0 42 | 13 36 | 1 3 | 21 15 | 1 27 | 4 39 | 0 48 | 16 47 | 0 6 | 8 8 | 17 12 | 12 18 | 11 51 | 27 35 | 16 37 | 6 11 |
| W22 | 20 21 | 14 0 | 4 26 | 11 30 | 1 35 | 21 26 | 0 56 | 23 53 | 0 42 | 13 37 | 1 2 | 21 15 | 1 27 | 4 40 | 0 48 | 16 47 | 0 6 | 8 8 | 17 13 | 12 17 | 11 52 | 27 35 | 16 36 | 6 11 |
| T 23 | 20 9 | 19 22 | 4 58 | 11 4 | 1 47 | 21 13 | 0 58 | 23 51 | 0 43 | 13 38 | 1 2 | 21 15 | 1 27 | 4 40 | 0 48 | 16 48 | 0 6 | 8 9 | 17 13 | 12 18 | 11 53 | 27 36 | 16 35 | 6 11 |
| F 24 | 19 56 | 23 46 | 5 13 | 10 38 | 2 0 | 20 59 | 1 0 | 23 49 | 0 44 | 13 39 | 1 2 | 21 15 | 1 27 | 4 41 | 0 48 | 16 48 | 0 6 | 8 9 | 17 13 | 12 18 | 11 54 | 27 36 | 16 35 | 6 11 |
| S 25 | 19 43 | 26 46 | 5 8 | 10 14 | 2 13 | 20 44 | 1 1 | 23 46 | 0 44 | 13 41 | 1 2 | 21 15 | 1 27 | 4 41 | 0 48 | 16 49 | 0 6 | 8 9 | 17 14 | 12 19 | 11 55 | 27 37 | 16 34 | 6 12 |
| S 26 | 19 30 | 28 0 | 4 43 | 9 51 | 2 26 | 20 29 | 1 3 | 23 43 | 0 45 | 13 42 | 1 1 | 21 15 | 1 26 | 4 42 | 0 48 | 16 49 | 0 6 | 8 10 | 17 14 | 12 20 | 11 57 | 27 37 | 16 33 | 6 12 |
| M27 | 19 17 | 27 13 | 3 59 | 9 30 | 2 39 | 20 13 | 1 5 | 23 40 | 0 45 | 13 43 | 1 1 | 21 15 | 1 26 | 4 42 | 0 48 | 16 50 | 0 6 | 8 10 | 17 14 | 12 21 | 11 58 | 27 38 | 16 32 | 6 12 |
| T 28 | 19 3 | 24 31 | 3 0 | 9 10 | 2 52 | 19 56 | 1 6 | 23 37 | 0 46 | 13 45 | 1 1 | 21 15 | 1 26 | 4 43 | 0 48 | 16 50 | 0 6 | 8 11 | 17 15 | 12 22 | 11 59 | 27 38 | 16 31 | 6 12 |
| W29 | 18 49 | 20 13 | 1 48 | 8 51 | 3 4 | 19 39 | 1 8 | 23 34 | 0 46 | 13 46 | 1 1 | 21 15 | 1 26 | 4 44 | 0 48 | 16 51 | 0 7 | 8 11 | 17 15 | 12 23 | 12 0 | 27 38 | 16 30 | 6 13 |
| T 30 | 18 35 | 14 47 | 0 32 | 8 35 | 3 17 | 19 21 | 1 9 | 23 30 | 0 47 | 13 48 | 1 0 | 21 15 | 1 26 | 4 44 | 0 48 | 16 51 | 0 7 | 8 11 | 17 15 | 12 23 | 12 1 | 27 39 | 16 29 | 6 13 |
| F 31 | 18n20 | 8n43 | 0s46 | 8n21 | 3s29 | 19n 3 | 1n10 | 23n27 | 0n47 | 13s49 | 1n 0 | 21s15 | 1n26 | 4s45 | 0s48 | 16s52 | 0s 7 | 8s12 | 17s16 | 12s23 | 12s 2 | 27s39 | 16n29 | 6s13 |

Julian Day Number = 2393287.5, Delta T = 7.60 sec
Ecliptic obliquity = 23°27'43, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°30'47, Lahiri = 21°37'47

# ASTRODIENST EPHEMERIS for the year 1840
# geocentric

## AUGUST 1840 — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 38 40 | 8♌44'13 | 19♍20 | 29°R43 | 10♌37 | 15♋15 | 9♏54 | 15°R24 | 19°R51 | 13°R34 | 19°R56 | 27♒25 | 28♒22 | 16♐46 | 14♋45 | S 1 |
| S 2 | 20 42 37 | 9°41'41 | 2♎33 | 29♌41 | 11°52 | 15°54 | 9°58 | 15♐22 | 19♓49 | 13♒33 | 19♈56 | 27°27 | 28°19 | 16°52 | 14°51 | S 2 |
| M 3 | 20 46 33 | 10°39'08 | 15°23 | 29°34 | 13° 6 | 16°34 | 10° 3 | 15°21 | 19°48 | 13°31 | 19°55 | 27°28 | 28°16 | 16°59 | 14°57 | M 3 |
| T 4 | 20 50 30 | 11°36'37 | 27°54 | 29°22 | 14°20 | 17°13 | 10° 8 | 15°19 | 19°46 | 13°29 | 19°55 | 27°29 | 28°12 | 17° 6 | 15° 3 | T 4 |
| W 5 | 20 54 27 | 12°34'07 | 10♏ 8 | 29° 5 | 15°34 | 17°52 | 10°13 | 15°18 | 19°44 | 13°28 | 19°55 | 27°R30 | 28° 9 | 17°13 | 15° 9 | W 5 |
| T 6 | 20 58 23 | 13°31'37 | 22°11 | 28°43 | 16°48 | 18°32 | 10°18 | 15°16 | 19°42 | 13°26 | 19°54 | 27°29 | 28° 6 | 17°19 | 15°15 | T 6 |
| F 7 | 21 2 20 | 14°29'08 | 4♐ 6 | 28°15 | 18° 2 | 19°11 | 10°24 | 15°15 | 19°41 | 13°25 | 19°54 | 27°29 | 28° 3 | 17°26 | 15°21 | F 7 |
| S 8 | 21 6 16 | 15°26'40 | 15°59 | 27°43 | 19°16 | 19°50 | 10°29 | 15°14 | 19°39 | 13°23 | 19°54 | 27°27 | 28° 0 | 17°33 | 15°26 | S 8 |
| S 9 | 21 10 13 | 16°24'13 | 27°52 | 27° 6 | 20°30 | 20°29 | 10°35 | 15°13 | 19°37 | 13°21 | 19°53 | 27°26 | 27°56 | 17°39 | 15°32 | S 9 |
| M10 | 21 14 9 | 17°21'47 | 9♑51 | 26°25 | 21°44 | 21° 8 | 10°41 | 15°12 | 19°35 | 13°20 | 19°53 | 27°24 | 27°53 | 17°46 | 15°38 | M10 |
| T 11 | 21 18 6 | 18°19'22 | 21°58 | 25°40 | 22°58 | 21°47 | 10°47 | 15°11 | 19°33 | 13°18 | 19°52 | 27°23 | 27°50 | 17°53 | 15°44 | T 11 |
| W12 | 21 22 2 | 19°16'58 | 4♒15 | 24°53 | 24°13 | 22°26 | 10°53 | 15°10 | 19°31 | 13°16 | 19°52 | 27°22 | 27°47 | 18° 0 | 15°50 | W12 |
| T 13 | 21 25 59 | 20°14'35 | 16°43 | 24° 3 | 25°27 | 23° 5 | 10°59 | 15°10 | 19°29 | 13°15 | 19°51 | 27°22 | 27°44 | 18° 6 | 15°55 | T 13 |
| F 14 | 21 29 56 | 21°12'13 | 29°25 | 23°12 | 26°41 | 23°44 | 11° 5 | 15° 9 | 19°27 | 13°13 | 19°51 | 27°D21 | 27°41 | 18°13 | 16° 1 | F 14 |
| S 15 | 21 33 52 | 22° 9'53 | 12♓20 | 22°22 | 27°55 | 24°23 | 11°12 | 15° 9 | 19°25 | 13°12 | 19°50 | 27°22 | 27°37 | 18°20 | 16° 7 | S 15 |
| S 16 | 21 37 49 | 23° 7'34 | 25°29 | 21°31 | 29° 9 | 25° 1 | 11°18 | 15° 8 | 19°23 | 13°10 | 19°50 | 27°22 | 27°34 | 18°26 | 16°12 | S 16 |
| M17 | 21 41 45 | 24° 5'16 | 8♈51 | 20°43 | 0♍24 | 25°40 | 11°25 | 15° 8 | 19°21 | 13° 8 | 19°49 | 27°22 | 27°31 | 18°33 | 16°18 | M17 |
| T 18 | 21 45 42 | 25° 3'01 | 22°27 | 19°57 | 1°38 | 26°19 | 11°32 | 15° 8 | 19°19 | 13° 7 | 19°49 | 27°23 | 27°28 | 18°40 | 16°23 | T 18 |
| W19 | 21 49 38 | 26° 0'46 | 6♉15 | 19°15 | 2°52 | 26°57 | 11°39 | 15°D 8 | 19°17 | 13° 5 | 19°48 | 27°23 | 27°25 | 18°47 | 16°29 | W19 |
| T 20 | 21 53 35 | 26°58'34 | 20°14 | 18°38 | 4° 6 | 27°36 | 11°46 | 15° 8 | 19°15 | 13° 4 | 19°47 | 27°23 | 27°22 | 18°53 | 16°34 | T 20 |
| F 21 | 21 57 31 | 27°56'23 | 4♊24 | 18° 6 | 5°20 | 28°15 | 11°54 | 15° 8 | 19°12 | 13° 2 | 19°47 | 27°23 | 27°18 | 19° 0 | 16°40 | F 21 |
| S 22 | 22 1 28 | 28°54'15 | 18°41 | 17°41 | 6°35 | 28°53 | 12° 1 | 15° 8 | 19°10 | 13° 1 | 19°46 | 27°23 | 27°15 | 19° 7 | 16°45 | S 22 |
| S 23 | 22 5 25 | 29°52'08 | 3♋ 4 | 17°22 | 7°49 | 29°32 | 12° 9 | 15° 8 | 19° 8 | 12°59 | 19°46 | 27°23 | 27°12 | 19°13 | 16°50 | S 23 |
| M24 | 22 9 21 | 0♍50'03 | 17°28 | 17°11 | 9° 3 | 0♌10 | 12°17 | 15° 9 | 19° 6 | 12°57 | 19°45 | 27°23 | 27° 9 | 19°20 | 16°55 | M24 |
| T 25 | 22 13 18 | 1°47'59 | 1♌50 | 17°D 7 | 10°18 | 0°49 | 12°24 | 15° 9 | 19° 4 | 12°56 | 19°44 | 27°24 | 27° 6 | 19°27 | 17° 1 | T 25 |
| W26 | 22 17 14 | 2°45'57 | 16° 4 | 17°12 | 11°32 | 1°27 | 12°32 | 15°10 | 19° 1 | 12°54 | 19°43 | 27°24 | 27° 2 | 19°34 | 17° 6 | W26 |
| T 27 | 22 21 11 | 3°43'57 | 0♍ 6 | 17°24 | 12°46 | 2° 5 | 12°40 | 15°10 | 18°59 | 12°53 | 19°43 | 27°R24 | 26°59 | 19°40 | 17°11 | T 27 |
| F 28 | 22 25 7 | 4°41'59 | 13°53 | 17°45 | 14° 0 | 2°44 | 12°49 | 15°11 | 18°57 | 12°51 | 19°42 | 27°24 | 26°56 | 19°47 | 17°16 | F 28 |
| S 29 | 22 29 4 | 5°40'01 | 27°22 | 18°14 | 15°15 | 3°22 | 12°57 | 15°12 | 18°54 | 12°50 | 19°41 | 27°23 | 26°53 | 19°54 | 17°21 | S 29 |
| S 30 | 22 33 0 | 6°38'06 | 10♎31 | 18°52 | 16°29 | 4° 0 | 13° 6 | 15°13 | 18°52 | 12°48 | 19°40 | 27°22 | 26°50 | 20° 0 | 17°26 | S 30 |
| M31 | 22 36 57 | 7♍36'12 | 23♎20 | 19♌37 | 17♍43 | 4♌38 | 13♏14 | 15♐14 | 18♓50 | 12♒47 | 19♈40 | 27♒21 | 26♒47 | 20♐ 7 | 17♋31 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 18n 6 | 2n25 | 1s58 | 8n 8 | 3s41 | 18n44 | 1n12 | 23n23 | 0n48 | 13s51 | 1n 0 | 21s15 | 1n25 | 4s46 | 0s48 | 16s52 | 0s 7 | 8s12 | 17s16 | 12s23 | 12s 3 | 27s40 | 16n28 | 6s13 |
| S 2 | 17 50 | 3s48 | 3 2 | 7 58 | 3 52 | 18 25 | 1 13 | 23 19 | 0 48 | 13 53 | 1 0 | 21 15 | 1 25 | 4 46 | 0 48 | 16 53 | 0 7 | 8 13 | 17 16 | 12 22 | 12 4 | 27 40 | 16 27 | 6 14 |
| M 3 | 17 35 | 9 40 | 3 55 | 7 51 | 4 3 | 18 5 | 1 14 | 23 15 | 0 49 | 13 54 | 0 59 | 21 15 | 1 25 | 4 47 | 0 48 | 16 53 | 0 7 | 8 13 | 17 17 | 12 22 | 12 5 | 27 41 | 16 26 | 6 14 |
| T 4 | 17 19 | 15 0 | 4 35 | 7 46 | 4 12 | 17 45 | 1 15 | 23 10 | 0 49 | 13 56 | 0 59 | 21 15 | 1 25 | 4 48 | 0 48 | 16 54 | 0 7 | 8 13 | 17 17 | 12 21 | 12 7 | 27 41 | 16 25 | 6 14 |
| W 5 | 17 3 | 19 38 | 5 2 | 7 43 | 4 21 | 17 24 | 1 16 | 23 6 | 0 50 | 13 58 | 0 59 | 21 15 | 1 25 | 4 48 | 0 48 | 16 54 | 0 7 | 8 14 | 17 17 | 12 21 | 12 8 | 27 41 | 16 24 | 6 14 |
| T 6 | 16 47 | 23 23 | 5 14 | 7 43 | 4 29 | 17 3 | 1 17 | 23 1 | 0 50 | 14 0 | 0 59 | 21 15 | 1 24 | 4 49 | 0 48 | 16 55 | 0 7 | 8 14 | 17 18 | 12 21 | 12 9 | 27 42 | 16 23 | 6 15 |
| F 7 | 16 30 | 26 7 | 5 14 | 7 46 | 4 36 | 16 41 | 1 18 | 22 56 | 0 51 | 14 2 | 0 58 | 21 15 | 1 24 | 4 50 | 0 48 | 16 55 | 0 7 | 8 15 | 17 18 | 12 22 | 12 10 | 27 42 | 16 22 | 6 15 |
| S 8 | 16 13 | 27 41 | 5 0 | 7 52 | 4 42 | 16 19 | 1 19 | 22 51 | 0 51 | 14 4 | 0 58 | 21 15 | 1 24 | 4 51 | 0 48 | 16 56 | 0 7 | 8 15 | 17 18 | 12 22 | 12 11 | 27 42 | 16 21 | 6 15 |
| S 9 | 15 56 | 27 59 | 4 33 | 8 1 | 4 46 | 15 56 | 1 20 | 22 45 | 0 52 | 14 6 | 0 58 | 21 15 | 1 24 | 4 51 | 0 48 | 16 56 | 0 7 | 8 16 | 17 19 | 12 23 | 12 12 | 27 43 | 16 20 | 6 16 |
| M10 | 15 39 | 26 59 | 3 53 | 8 12 | 4 48 | 15 33 | 1 21 | 22 40 | 0 53 | 14 8 | 0 58 | 21 15 | 1 24 | 4 52 | 0 48 | 16 56 | 0 7 | 8 16 | 17 19 | 12 23 | 12 13 | 27 43 | 16 19 | 6 16 |
| T 11 | 15 21 | 24 41 | 3 4 | 8 26 | 4 49 | 15 9 | 1 22 | 22 34 | 0 53 | 14 10 | 0 57 | 21 15 | 1 23 | 4 53 | 0 48 | 16 57 | 0 7 | 8 16 | 17 19 | 12 24 | 12 14 | 27 43 | 16 18 | 6 16 |
| W12 | 15 3 | 21 14 | 2 5 | 8 43 | 4 48 | 14 46 | 1 22 | 22 28 | 0 54 | 14 12 | 0 57 | 21 16 | 1 23 | 4 54 | 0 48 | 16 57 | 0 7 | 8 17 | 17 20 | 12 24 | 12 15 | 27 44 | 16 17 | 6 17 |
| T 13 | 14 45 | 16 46 | 0 59 | 9 1 | 4 46 | 14 21 | 1 23 | 22 22 | 0 54 | 14 14 | 0 57 | 21 16 | 1 23 | 4 54 | 0 48 | 16 58 | 0 7 | 8 17 | 17 20 | 12 24 | 12 16 | 27 44 | 16 16 | 6 17 |
| F 14 | 14 27 | 11 31 | 0n11 | 9 22 | 4 41 | 13 56 | 1 24 | 22 16 | 0 55 | 14 16 | 0 57 | 21 16 | 1 23 | 4 55 | 0 48 | 16 58 | 0 7 | 8 18 | 17 20 | 12 24 | 12 17 | 27 44 | 16 15 | 6 17 |
| S 15 | 14 8 | 5 41 | 1 22 | 9 45 | 4 34 | 13 31 | 1 24 | 22 10 | 0 55 | 14 18 | 0 57 | 21 16 | 1 23 | 4 56 | 0 48 | 16 59 | 0 7 | 8 18 | 17 21 | 12 24 | 12 19 | 27 45 | 16 14 | 6 18 |
| S 16 | 13 49 | 0n29 | 2 30 | 10 8 | 4 26 | 13 6 | 1 24 | 22 4 | 0 56 | 14 21 | 0 56 | 21 16 | 1 22 | 4 57 | 0 48 | 16 59 | 0 7 | 8 19 | 17 21 | 12 24 | 12 20 | 27 45 | 16 13 | 6 18 |
| M17 | 13 30 | 6 44 | 3 30 | 10 33 | 4 16 | 12 40 | 1 25 | 21 57 | 0 56 | 14 23 | 0 56 | 21 16 | 1 22 | 4 58 | 0 48 | 17 0 | 0 7 | 8 19 | 17 21 | 12 24 | 12 21 | 27 45 | 16 12 | 6 18 |
| T 18 | 13 11 | 12 46 | 4 20 | 10 59 | 4 4 | 12 14 | 1 25 | 21 50 | 0 57 | 14 25 | 0 56 | 21 16 | 1 22 | 4 59 | 0 48 | 17 0 | 0 7 | 8 20 | 17 21 | 12 24 | 12 22 | 27 46 | 16 11 | 6 19 |
| W19 | 12 52 | 18 16 | 4 56 | 11 24 | 3 51 | 11 47 | 1 25 | 21 43 | 0 57 | 14 28 | 0 56 | 21 17 | 1 22 | 4 59 | 0 48 | 17 1 | 0 7 | 8 20 | 17 22 | 12 24 | 12 23 | 27 46 | 16 10 | 6 19 |
| T 20 | 12 32 | 22 52 | 5 14 | 11 50 | 3 36 | 11 20 | 1 26 | 21 36 | 0 58 | 14 30 | 0 55 | 21 17 | 1 22 | 5 0 | 0 48 | 17 1 | 0 7 | 8 21 | 17 22 | 12 24 | 12 24 | 27 46 | 16 9 | 6 20 |
| F 21 | 12 12 | 26 11 | 5 15 | 12 14 | 3 20 | 10 53 | 1 26 | 21 29 | 0 58 | 14 33 | 0 55 | 21 17 | 1 21 | 5 1 | 0 48 | 17 2 | 0 7 | 8 21 | 17 22 | 12 24 | 12 25 | 27 46 | 16 8 | 6 20 |
| S 22 | 11 52 | 27 53 | 4 55 | 12 38 | 3 3 | 10 26 | 1 26 | 21 21 | 0 59 | 14 35 | 0 55 | 21 17 | 1 21 | 5 2 | 0 48 | 17 2 | 0 7 | 8 22 | 17 23 | 12 24 | 12 26 | 27 47 | 16 7 | 6 20 |
| S 23 | 11 32 | 27 43 | 4 18 | 13 0 | 2 46 | 9 58 | 1 26 | 21 14 | 0 59 | 14 38 | 0 55 | 21 18 | 1 21 | 5 3 | 0 48 | 17 3 | 0 7 | 8 22 | 17 23 | 12 24 | 12 27 | 27 47 | 16 6 | 6 21 |
| M24 | 11 11 | 25 41 | 3 24 | 13 21 | 2 28 | 9 30 | 1 26 | 21 6 | 1 0 | 14 40 | 0 55 | 21 18 | 1 21 | 5 4 | 0 48 | 17 3 | 0 7 | 8 23 | 17 23 | 12 23 | 12 28 | 27 47 | 16 5 | 6 21 |
| T 25 | 10 51 | 22 0 | 2 17 | 13 39 | 2 10 | 9 2 | 1 25 | 20 58 | 1 0 | 14 43 | 0 54 | 21 18 | 1 21 | 5 5 | 0 48 | 17 3 | 0 7 | 8 23 | 17 23 | 12 23 | 12 29 | 27 47 | 16 4 | 6 22 |
| W26 | 10 30 | 17 2 | 1 2 | 13 56 | 1 51 | 8 33 | 1 25 | 20 50 | 1 1 | 14 45 | 0 54 | 21 18 | 1 20 | 5 6 | 0 48 | 17 4 | 0 7 | 8 24 | 17 24 | 12 23 | 12 31 | 27 47 | 16 3 | 6 22 |
| T 27 | 10 9 | 11 13 | 0s15 | 14 9 | 1 33 | 8 5 | 1 25 | 20 42 | 1 1 | 14 48 | 0 54 | 21 19 | 1 20 | 5 6 | 0 49 | 17 4 | 0 7 | 8 24 | 17 24 | 12 23 | 12 32 | 27 48 | 16 2 | 6 22 |
| F 28 | 9 48 | 4 57 | 1 30 | 14 20 | 1 15 | 7 36 | 1 24 | 20 34 | 1 2 | 14 51 | 0 54 | 21 19 | 1 20 | 5 7 | 0 49 | 17 5 | 0 7 | 8 25 | 17 24 | 12 23 | 12 33 | 27 48 | 16 1 | 6 23 |
| S 29 | 9 27 | 1s23 | 2 38 | 14 28 | 0 57 | 7 7 | 1 24 | 20 26 | 1 2 | 14 53 | 0 54 | 21 19 | 1 20 | 5 8 | 0 49 | 17 5 | 0 7 | 8 25 | 17 25 | 12 23 | 12 34 | 27 48 | 16 0 | 6 23 |
| S 30 | 9 5 | 7 29 | 3 37 | 14 33 | 0 40 | 6 37 | 1 24 | 20 17 | 1 3 | 14 56 | 0 53 | 21 19 | 1 20 | 5 9 | 0 49 | 17 6 | 0 7 | 8 26 | 17 25 | 12 24 | 12 35 | 27 48 | 15 59 | 6 24 |
| M31 | 8n44 | 13s 8 | 4s22 | 14n35 | 0s23 | 6n 8 | 1n23 | 20n 9 | 1n 3 | 14s59 | 0n53 | 21s20 | 1n19 | 5s10 | 0s49 | 17s 6 | 0s 7 | 8s26 | 17s25 | 12s24 | 12s36 | 27s48 | 15n58 | 6s24 |

Julian Day Number = 2393318.5, Delta T = 7.60 sec
Ecliptic obliquity = 23°27'44, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°30'51, Lahiri = 21°37'52

# ASTRODIENST EPHEMERIS for the year 1840
# geocentric

## SEPTEMBER 1840 — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 22 40 54 | 8♍34'19 | 5♏51 | 20♌29 | 18♍58 | 5♌16 | 13♏23 | 15♐15 | 18°R47 | 12°R46 | 19°R39 | 27°R19 | 26♒43 | 20♐14 | 17♋36 | T 1 |
| W 2 | 22 44 50 | 9°32'28 | 18° 7 | 21°29 | 20°12 | 5°55 | 13°32 | 15°17 | 18♓45 | 12♒44 | 19♈38 | 27♒18 | 26°40 | 20°21 | 17°40 | W 2 |
| T 3 | 22 48 47 | 10°30'39 | 0♐11 | 22°36 | 21°26 | 6°33 | 13°41 | 15°18 | 18°43 | 12°43 | 19°37 | 27°17 | 26°37 | 20°27 | 17°45 | T 3 |
| F 4 | 22 52 43 | 11°28'51 | 12° 6 | 23°50 | 22°41 | 7°11 | 13°50 | 15°19 | 18°40 | 12°41 | 19°36 | 27°D17 | 26°34 | 20°34 | 17°50 | F 4 |
| S 5 | 22 56 40 | 12°27'05 | 23°59 | 25° 9 | 23°55 | 7°49 | 13°59 | 15°21 | 18°38 | 12°40 | 19°35 | 27°17 | 26°31 | 20°41 | 17°54 | S 5 |
| S 6 | 23 0 36 | 13°25'20 | 5♑53 | 26°34 | 25°10 | 8°26 | 14° 8 | 15°23 | 18°36 | 12°39 | 19°35 | 27°18 | 26°28 | 20°47 | 17°59 | S 6 |
| M 7 | 23 4 33 | 14°23'36 | 17°53 | 28° 4 | 26°24 | 9° 4 | 14°17 | 15°24 | 18°33 | 12°37 | 19°34 | 27°20 | 26°24 | 20°54 | 18° 4 | M 7 |
| T 8 | 23 8 29 | 15°21'54 | 0♒ 4 | 29°38 | 27°38 | 9°42 | 14°27 | 15°26 | 18°31 | 12°36 | 19°33 | 27°21 | 26°21 | 21° 1 | 18° 8 | T 8 |
| W 9 | 23 12 26 | 16°20'14 | 12°28 | 1♏16 | 28°53 | 10°20 | 14°36 | 15°28 | 18°28 | 12°35 | 19°32 | 27°22 | 26°18 | 21° 8 | 18°12 | W 9 |
| T 10 | 23 16 23 | 17°18'36 | 25° 9 | 2°57 | 0♎ 7 | 10°58 | 14°46 | 15°30 | 18°26 | 12°33 | 19°31 | 27°R23 | 26°15 | 21°14 | 18°17 | T 10 |
| F 11 | 23 20 19 | 18°16'59 | 8♓ 8 | 4°41 | 1°21 | 11°35 | 14°56 | 15°32 | 18°24 | 12°32 | 19°30 | 27°23 | 26°12 | 21°21 | 18°21 | F 11 |
| S 12 | 23 24 16 | 19°15'24 | 21°25 | 6°27 | 2°36 | 12°13 | 15° 6 | 15°35 | 18°21 | 12°31 | 19°29 | 27°21 | 26° 8 | 21°28 | 18°25 | S 12 |
| S 13 | 23 28 12 | 20°13'50 | 5♈ 0 | 8°15 | 3°50 | 12°51 | 15°16 | 15°37 | 18°19 | 12°30 | 19°28 | 27°19 | 26° 5 | 21°34 | 18°29 | S 13 |
| M14 | 23 32 9 | 21°12'19 | 18°49 | 10° 5 | 5° 4 | 13°28 | 15°26 | 15°39 | 18°16 | 12°28 | 19°27 | 27°16 | 26° 2 | 21°41 | 18°33 | M14 |
| T 15 | 23 36 5 | 22°10'50 | 2♉50 | 11°56 | 6°19 | 14° 6 | 15°36 | 15°42 | 18°14 | 12°27 | 19°26 | 27°12 | 25°59 | 21°48 | 18°37 | T 15 |
| W16 | 23 40 2 | 23° 9'23 | 16°59 | 13°47 | 7°33 | 14°43 | 15°46 | 15°44 | 18°12 | 12°26 | 19°25 | 27° 9 | 25°56 | 21°54 | 18°41 | W16 |
| T 17 | 23 43 58 | 24° 7'59 | 1♊12 | 15°39 | 8°47 | 15°21 | 15°57 | 15°47 | 18° 9 | 12°25 | 19°24 | 27° 6 | 25°53 | 22° 1 | 18°45 | T 17 |
| F 18 | 23 47 55 | 25° 6'36 | 15°27 | 17°31 | 10° 2 | 15°58 | 16° 7 | 15°50 | 18° 7 | 12°24 | 19°23 | 27° 4 | 25°49 | 22° 8 | 18°49 | F 18 |
| S 19 | 23 51 51 | 26° 5'16 | 29°39 | 19°22 | 11°16 | 16°36 | 16°18 | 15°53 | 18° 4 | 12°23 | 19°22 | 27°D 4 | 25°46 | 22°15 | 18°52 | S 19 |
| S 20 | 23 55 48 | 27° 3'58 | 13♋47 | 21°14 | 12°31 | 17°13 | 16°28 | 15°55 | 18° 2 | 12°22 | 19°21 | 27° 5 | 25°43 | 22°21 | 18°56 | S 20 |
| M21 | 23 59 45 | 28° 2'43 | 27°50 | 23° 6 | 13°45 | 17°50 | 16°39 | 15°59 | 18° 0 | 12°21 | 19°20 | 27° 6 | 25°40 | 22°28 | 19° 0 | M21 |
| T 22 | 0 3 41 | 29° 1'29 | 11♌45 | 24°56 | 14°59 | 18°27 | 16°50 | 16° 2 | 17°57 | 12°20 | 19°19 | 27° 8 | 25°37 | 22°35 | 19° 3 | T 22 |
| W23 | 0 7 38 | 0♎ 0'18 | 25°32 | 26°47 | 16°14 | 19° 5 | 17° 0 | 16° 5 | 17°55 | 12°19 | 19°18 | 27°R 9 | 25°34 | 22°41 | 19° 7 | W23 |
| T 24 | 0 11 34 | 0°59'09 | 9♍ 9 | 28°36 | 17°28 | 19°42 | 17°11 | 16° 8 | 17°53 | 12°18 | 19°17 | 27° 8 | 25°30 | 22°48 | 19°10 | T 24 |
| F 25 | 0 15 31 | 1°58'02 | 22°34 | 0♎25 | 18°42 | 20°19 | 17°22 | 16°11 | 17°50 | 12°17 | 19°16 | 27° 6 | 25°27 | 22°55 | 19°13 | F 25 |
| S 26 | 0 19 27 | 2°56'57 | 5♎45 | 2°13 | 19°57 | 20°56 | 17°34 | 16°15 | 17°48 | 12°16 | 19°14 | 27° 2 | 25°24 | 23° 2 | 19°16 | S 26 |
| S 27 | 0 23 24 | 3°55'54 | 18°41 | 4° 0 | 21°11 | 21°33 | 17°45 | 16°18 | 17°46 | 12°15 | 19°13 | 26°56 | 25°21 | 23° 8 | 19°19 | S 27 |
| M28 | 0 27 20 | 4°54'53 | 1♏23 | 5°47 | 22°26 | 22°10 | 17°56 | 16°22 | 17°44 | 12°14 | 19°12 | 26°49 | 25°18 | 23°15 | 19°22 | M28 |
| T 29 | 0 31 17 | 5°53'54 | 13°50 | 7°33 | 23°40 | 22°47 | 18° 7 | 16°26 | 17°41 | 12°14 | 19°11 | 26°42 | 25°14 | 23°22 | 19°25 | T 29 |
| W30 | 0 35 14 | 6♎52'57 | 26♏ 3 | 9♎17 | 24♎54 | 23♌24 | 18♏19 | 16♐29 | 17♓39 | 12♒13 | 19♈10 | 26♒36 | 25♒11 | 23♐28 | 19♋28 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| T 1 | 8n22 | 18s 6 | 4s54 | 14n33 | 0s 7 | 5n38 | 1n22 | 20n 0 | 1n 4 | 15s 2 | 0n53 | 21s20 | 1n19 | 5s11 | 0s49 | 17s 6 | 0s 7 | 8s27 | 17s25 | 12s25 | 12s37 | 27s49 | 15n57 | 6s25 | T 1 |
| W 2 | 8 0 | 22 14 | 5 12 | 14 28 | 0n 7 | 5 8 | 1 22 | 19 51 | 1 4 | 15 5 | 0 53 | 21 20 | 1 19 | 5 12 | 0 49 | 17 7 | 0 7 | 8 27 | 17 25 | 12 25 | 12 38 | 27 49 | 15 56 | 6 25 | W 2 |
| T 3 | 7 38 | 25 21 | 5 16 | 14 20 | 0 22 | 4 38 | 1 21 | 19 42 | 1 5 | 15 7 | 0 53 | 21 21 | 1 19 | 5 13 | 0 49 | 17 7 | 0 7 | 8 28 | 17 26 | 12 25 | 12 39 | 27 49 | 15 54 | 6 26 | T 3 |
| F 4 | 7 16 | 27 19 | 5 6 | 14 8 | 0 35 | 4 8 | 1 20 | 19 33 | 1 5 | 15 10 | 0 52 | 21 21 | 1 19 | 5 14 | 0 49 | 17 8 | 0 7 | 8 28 | 17 26 | 12 26 | 12 40 | 27 49 | 15 53 | 6 26 | F 4 |
| S 5 | 6 54 | 28 2 | 4 42 | 13 53 | 0 47 | 3 38 | 1 19 | 19 23 | 1 6 | 15 13 | 0 52 | 21 21 | 1 18 | 5 15 | 0 49 | 17 8 | 0 7 | 8 29 | 17 26 | 12 25 | 12 41 | 27 49 | 15 52 | 6 27 | S 5 |
| S 6 | 6 31 | 27 27 | 4 7 | 13 34 | 0 58 | 3 7 | 1 18 | 19 14 | 1 6 | 15 16 | 0 52 | 21 22 | 1 18 | 5 16 | 0 49 | 17 8 | 0 7 | 8 29 | 17 26 | 12 25 | 12 43 | 27 49 | 15 51 | 6 27 | S 6 |
| M 7 | 6 9 | 25 35 | 3 21 | 13 13 | 1 7 | 2 37 | 1 17 | 19 4 | 1 6 | 15 19 | 0 52 | 21 22 | 1 18 | 5 17 | 0 49 | 17 9 | 0 7 | 8 30 | 17 27 | 12 25 | 12 44 | 27 49 | 15 50 | 6 28 | M 7 |
| T 8 | 5 46 | 22 31 | 2 25 | 12 48 | 1 16 | 2 6 | 1 16 | 18 55 | 1 7 | 15 22 | 0 52 | 21 23 | 1 18 | 5 18 | 0 49 | 17 9 | 0 7 | 8 31 | 17 27 | 12 24 | 12 45 | 27 49 | 15 49 | 6 28 | T 8 |
| W 9 | 5 24 | 18 23 | 1 21 | 12 21 | 1 24 | 1 36 | 1 15 | 18 45 | 1 7 | 15 25 | 0 51 | 21 23 | 1 18 | 5 18 | 0 49 | 17 10 | 0 7 | 8 31 | 17 27 | 12 24 | 12 46 | 27 50 | 15 48 | 6 29 | W 9 |
| T 10 | 5 1 | 13 21 | 0 12 | 11 50 | 1 30 | 1 5 | 1 14 | 18 35 | 1 8 | 15 28 | 0 51 | 21 23 | 1 17 | 5 19 | 0 49 | 17 10 | 0 7 | 8 32 | 17 27 | 12 24 | 12 47 | 27 50 | 15 47 | 6 29 | T 10 |
| F 11 | 4 38 | 7 37 | 0n59 | 11 18 | 1 36 | 0 34 | 1 13 | 18 25 | 1 8 | 15 31 | 0 51 | 21 24 | 1 17 | 5 20 | 0 49 | 17 10 | 0 7 | 8 32 | 17 27 | 12 24 | 12 48 | 27 50 | 15 46 | 6 30 | F 11 |
| S 12 | 4 15 | 1 26 | 2 8 | 10 43 | 1 41 | 0 4 | 1 11 | 18 15 | 1 9 | 15 34 | 0 51 | 21 24 | 1 17 | 5 21 | 0 49 | 17 11 | 0 7 | 8 33 | 17 28 | 12 24 | 12 49 | 27 50 | 15 45 | 6 30 | S 12 |
| S 13 | 3 52 | 4n55 | 3 12 | 10 6 | 1 44 | 0s27 | 1 10 | 18 5 | 1 9 | 15 37 | 0 51 | 21 25 | 1 17 | 5 22 | 0 49 | 17 11 | 0 7 | 8 33 | 17 28 | 12 25 | 12 50 | 27 50 | 15 44 | 6 31 | S 13 |
| M14 | 3 29 | 11 10 | 4 6 | 9 27 | 1 47 | 0 58 | 1 9 | 17 55 | 1 10 | 15 40 | 0 50 | 21 25 | 1 17 | 5 23 | 0 49 | 17 11 | 0 7 | 8 34 | 17 28 | 12 26 | 12 51 | 27 50 | 15 43 | 6 32 | M14 |
| T 15 | 3 6 | 16 56 | 4 46 | 8 46 | 1 49 | 1 29 | 1 7 | 17 44 | 1 10 | 15 43 | 0 50 | 21 26 | 1 16 | 5 24 | 0 49 | 17 12 | 0 7 | 8 34 | 17 28 | 12 27 | 12 52 | 27 50 | 15 41 | 6 32 | T 15 |
| W16 | 2 43 | 21 51 | 5 8 | 8 4 | 1 50 | 2 0 | 1 6 | 17 34 | 1 11 | 15 47 | 0 50 | 21 26 | 1 16 | 5 25 | 0 49 | 17 12 | 0 7 | 8 35 | 17 28 | 12 28 | 12 53 | 27 50 | 15 40 | 6 33 | W16 |
| T 17 | 2 20 | 25 31 | 5 12 | 7 21 | 1 50 | 2 30 | 1 4 | 17 23 | 1 11 | 15 50 | 0 50 | 21 27 | 1 16 | 5 26 | 0 49 | 17 12 | 0 7 | 8 35 | 17 28 | 12 29 | 12 54 | 27 50 | 15 39 | 6 33 | T 17 |
| F 18 | 1 57 | 27 36 | 4 57 | 6 37 | 1 49 | 3 1 | 1 2 | 17 12 | 1 12 | 15 53 | 0 50 | 21 27 | 1 16 | 5 27 | 0 49 | 17 13 | 0 7 | 8 36 | 17 29 | 12 30 | 12 55 | 27 50 | 15 38 | 6 34 | F 18 |
| S 19 | 1 33 | 27 52 | 4 24 | 5 52 | 1 48 | 3 32 | 1 1 | 17 2 | 1 12 | 15 56 | 0 50 | 21 28 | 1 16 | 5 28 | 0 49 | 17 13 | 0 7 | 8 36 | 17 29 | 12 30 | 12 57 | 27 50 | 15 37 | 6 34 | S 19 |
| S 20 | 1 10 | 26 19 | 3 35 | 5 6 | 1 46 | 4 3 | 0 59 | 16 51 | 1 13 | 15 59 | 0 49 | 21 28 | 1 15 | 5 29 | 0 49 | 17 13 | 0 7 | 8 37 | 17 29 | 12 30 | 12 58 | 27 50 | 15 36 | 6 35 | S 20 |
| M21 | 0 47 | 23 7 | 2 33 | 4 20 | 1 44 | 4 33 | 0 57 | 16 40 | 1 13 | 16 2 | 0 49 | 21 29 | 1 15 | 5 30 | 0 49 | 17 14 | 0 7 | 8 37 | 17 29 | 12 29 | 12 59 | 27 50 | 15 35 | 6 36 | M21 |
| T 22 | 0 23 | 18 37 | 1 23 | 3 34 | 1 41 | 5 4 | 0 55 | 16 29 | 1 14 | 16 6 | 0 49 | 21 29 | 1 15 | 5 31 | 0 49 | 17 14 | 0 7 | 8 38 | 17 29 | 12 29 | 13 0 | 27 50 | 15 34 | 6 36 | T 22 |
| W23 | 0s 0 | 13 10 | 0 9 | 2 47 | 1 38 | 5 34 | 0 53 | 16 17 | 1 14 | 16 9 | 0 49 | 21 30 | 1 15 | 5 31 | 0 49 | 17 14 | 0 7 | 8 38 | 17 29 | 12 29 | 13 1 | 27 50 | 15 33 | 6 37 | W23 |
| T 24 | 0 24 | 7 9 | 1s 5 | 2 0 | 1 34 | 6 4 | 0 51 | 16 6 | 1 15 | 16 12 | 0 49 | 21 30 | 1 15 | 5 32 | 0 48 | 17 14 | 0 7 | 8 39 | 17 29 | 12 29 | 13 2 | 27 50 | 15 32 | 6 37 | T 24 |
| F 25 | 0 47 | 0 54 | 2 14 | 1 12 | 1 30 | 6 34 | 0 49 | 15 55 | 1 15 | 16 15 | 0 49 | 21 31 | 1 15 | 5 33 | 0 48 | 17 15 | 0 7 | 8 39 | 17 29 | 12 29 | 13 3 | 27 50 | 15 31 | 6 38 | F 25 |
| S 26 | 1 10 | 5s16 | 3 15 | 0 25 | 1 25 | 7 4 | 0 47 | 15 43 | 1 15 | 16 19 | 0 48 | 21 31 | 1 14 | 5 34 | 0 48 | 17 15 | 0 7 | 8 40 | 17 30 | 12 31 | 13 4 | 27 50 | 15 30 | 6 39 | S 26 |
| S 27 | 1 34 | 11 5 | 4 4 | 0s22 | 1 20 | 7 34 | 0 45 | 15 32 | 1 16 | 16 22 | 0 48 | 21 32 | 1 14 | 5 35 | 0 48 | 17 15 | 0 7 | 8 40 | 17 30 | 12 33 | 13 5 | 27 50 | 15 29 | 6 39 | S 27 |
| M28 | 1 57 | 16 20 | 4 40 | 1 9 | 1 15 | 8 4 | 0 43 | 15 20 | 1 16 | 16 25 | 0 48 | 21 32 | 1 14 | 5 36 | 0 48 | 17 15 | 0 7 | 8 41 | 17 30 | 12 35 | 13 6 | 27 50 | 15 28 | 6 40 | M28 |
| T 29 | 2 21 | 20 48 | 5 2 | 1 56 | 1 10 | 8 34 | 0 41 | 15 9 | 1 17 | 16 29 | 0 48 | 21 33 | 1 14 | 5 37 | 0 48 | 17 16 | 0 7 | 8 41 | 17 30 | 12 37 | 13 7 | 27 50 | 15 27 | 6 41 | T 29 |
| W30 | 2s44 | 24s17 | 5s 9 | 2s42 | 1n 4 | 9s 3 | 0n39 | 14n57 | 1n17 | 16s32 | 0n48 | 21s33 | 1n14 | 5s38 | 0s48 | 17s16 | 0s 7 | 8s42 | 17s30 | 12s40 | 13s 8 | 27s50 | 15n26 | 6s41 | W30 |

Julian Day Number = 2393349.5, Delta T = 7.60 sec
Ecliptic obliquity = 23°27'44, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°30'55, Lahiri = 21°37'56

# ASTRODIENST EPHEMERIS for the year 1840
# geocentric

## OCTOBER 1840 — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 39 10 | 7♎52'02 | 8♐ 5 | 11♎ 1 | 26♎ 9 | 24♌ 1 | 18♏30 | 16♐33 | 17°R37 | 12°R12 | 19°R 9 | 26°R30 | 25♒ 8 | 23♐35 | 19♋31 | T 1 |
| F 2 | 0 43 7 | 8°51'09 | 20° 0 | 12°44 | 27°23 | 24°37 | 18°42 | 16°37 | 17♓35 | 12♒11 | 19♈ 8 | 26♒27 | 25° 5 | 23°42 | 19°34 | F 2 |
| S 3 | 0 47 3 | 9°50'17 | 1♑51 | 14°27 | 28°37 | 25°14 | 18°54 | 16°41 | 17°32 | 12°11 | 19° 7 | 26°25 | 25° 2 | 23°49 | 19°36 | S 3 |
| S 4 | 0 51 0 | 10°49'27 | 13°43 | 16° 8 | 29°52 | 25°51 | 19° 5 | 16°45 | 17°30 | 12°10 | 19° 5 | 26°D24 | 24°59 | 23°55 | 19°39 | S 4 |
| M 5 | 0 54 56 | 11°48'40 | 25°42 | 17°49 | 1♏ 6 | 26°28 | 19°17 | 16°50 | 17°28 | 12° 9 | 19° 4 | 26°25 | 24°55 | 24° 2 | 19°41 | M 5 |
| T 6 | 0 58 53 | 12°47'53 | 7♒52 | 19°28 | 2°20 | 27° 4 | 19°29 | 16°54 | 17°26 | 12° 9 | 19° 3 | 26°26 | 24°52 | 24° 9 | 19°44 | T 6 |
| W 7 | 1 2 49 | 13°47'09 | 20°19 | 21° 7 | 3°35 | 27°41 | 19°41 | 16°58 | 17°24 | 12° 8 | 19° 2 | 26°R28 | 24°49 | 24°15 | 19°46 | W 7 |
| T 8 | 1 6 46 | 14°46'26 | 3♓ 6 | 22°46 | 4°49 | 28°17 | 19°53 | 17° 3 | 17°22 | 12° 8 | 19° 1 | 26°27 | 24°46 | 24°22 | 19°48 | T 8 |
| F 9 | 1 10 43 | 15°45'46 | 16°15 | 24°23 | 6° 3 | 28°54 | 20° 5 | 17° 7 | 17°20 | 12° 7 | 19° 0 | 26°26 | 24°43 | 24°29 | 19°50 | F 9 |
| S 10 | 1 14 39 | 16°45'07 | 29°49 | 26° 0 | 7°18 | 29°30 | 20°17 | 17°12 | 17°18 | 12° 7 | 18°59 | 26°22 | 24°39 | 24°35 | 19°52 | S 10 |
| S 11 | 1 18 36 | 17°44'30 | 13♈46 | 27°36 | 8°32 | 0♍ 6 | 20°29 | 17°16 | 17°16 | 12° 6 | 18°57 | 26°15 | 24°36 | 24°42 | 19°54 | S 11 |
| M12 | 1 22 32 | 18°43'55 | 28° 2 | 29°11 | 9°46 | 0°43 | 20°41 | 17°21 | 17°14 | 12° 6 | 18°56 | 26° 8 | 24°33 | 24°49 | 19°56 | M12 |
| T 13 | 1 26 29 | 19°43'22 | 12♉32 | 0♏46 | 11° 1 | 1°19 | 20°53 | 17°26 | 17°12 | 12° 5 | 18°55 | 25°59 | 24°30 | 24°56 | 19°58 | T 13 |
| W14 | 1 30 25 | 20°42'52 | 27° 9 | 2°20 | 12°15 | 1°55 | 21° 6 | 17°30 | 17°10 | 12° 5 | 18°54 | 25°50 | 24°27 | 25° 2 | 19°59 | W14 |
| T 15 | 1 34 22 | 21°42'23 | 11♊46 | 3°54 | 13°29 | 2°31 | 21°18 | 17°35 | 17° 8 | 12° 5 | 18°53 | 25°43 | 24°24 | 25° 9 | 20° 1 | T 15 |
| F 16 | 1 38 18 | 22°41'57 | 26°17 | 5°26 | 14°44 | 3° 7 | 21°30 | 17°40 | 17° 6 | 12° 4 | 18°52 | 25°38 | 24°20 | 25°16 | 20° 3 | F 16 |
| S 17 | 1 42 15 | 23°41'34 | 10♋36 | 6°58 | 15°58 | 3°43 | 21°43 | 17°45 | 17° 5 | 12° 4 | 18°51 | 25°35 | 24°17 | 25°22 | 20° 4 | S 17 |
| S 18 | 1 46 12 | 24°41'13 | 24°42 | 8°30 | 17°12 | 4°19 | 21°55 | 17°50 | 17° 3 | 12° 4 | 18°49 | 25°D35 | 24°14 | 25°29 | 20° 5 | S 18 |
| M19 | 1 50 8 | 25°40'54 | 8♌34 | 10° 1 | 18°26 | 4°55 | 22° 8 | 17°56 | 17° 1 | 12° 4 | 18°48 | 25°35 | 24°11 | 25°36 | 20° 6 | M19 |
| T 20 | 1 54 5 | 26°40'37 | 22°12 | 11°31 | 19°41 | 5°31 | 22°20 | 18° 1 | 17° 0 | 12° 4 | 18°47 | 25°R36 | 24° 8 | 25°42 | 20° 8 | T 20 |
| W21 | 1 58 1 | 27°40'22 | 5♍37 | 13° 1 | 20°55 | 6° 7 | 22°33 | 18° 6 | 16°58 | 12° 3 | 18°46 | 25°35 | 24° 5 | 25°49 | 20° 9 | W21 |
| T 22 | 2 1 58 | 28°40'10 | 18°49 | 14°30 | 22° 9 | 6°43 | 22°46 | 18°11 | 16°56 | 12° 3 | 18°45 | 25°33 | 24° 1 | 25°56 | 20°10 | T 22 |
| F 23 | 2 5 54 | 29°40'00 | 1♎51 | 15°59 | 23°23 | 7°19 | 22°59 | 18°17 | 16°55 | 12° 3 | 18°44 | 25°28 | 23°58 | 26° 3 | 20°10 | F 23 |
| S 24 | 2 9 51 | 0♏39'52 | 14°41 | 17°26 | 24°38 | 7°54 | 23°11 | 18°22 | 16°53 | 12°D 3 | 18°43 | 25°20 | 23°55 | 26° 9 | 20°11 | S 24 |
| S 25 | 2 13 47 | 1°39'46 | 27°21 | 18°54 | 25°52 | 8°30 | 23°24 | 18°28 | 16°52 | 12° 3 | 18°41 | 25° 9 | 23°52 | 26°16 | 20°12 | S 25 |
| M26 | 2 17 44 | 2°39'42 | 9♏49 | 20°20 | 27° 6 | 9° 5 | 23°37 | 18°33 | 16°50 | 12° 3 | 18°40 | 24°57 | 23°49 | 26°23 | 20°12 | M26 |
| T 27 | 2 21 41 | 3°39'40 | 22° 7 | 21°46 | 28°21 | 9°41 | 23°50 | 18°39 | 16°49 | 12° 3 | 18°39 | 24°44 | 23°45 | 26°29 | 20°13 | T 27 |
| W28 | 2 25 37 | 4°39'40 | 4♐14 | 23°11 | 29°35 | 10°16 | 24° 3 | 18°45 | 16°47 | 12° 3 | 18°38 | 24°32 | 23°42 | 26°36 | 20°13 | W28 |
| T 29 | 2 29 34 | 5°39'41 | 16°13 | 24°36 | 0♐49 | 10°52 | 24°16 | 18°50 | 16°46 | 12° 4 | 18°37 | 24°20 | 23°39 | 26°43 | 20°13 | T 29 |
| F 30 | 2 33 30 | 6°39'45 | 28° 5 | 25°59 | 2° 3 | 11°27 | 24°29 | 18°56 | 16°45 | 12° 4 | 18°36 | 24°12 | 23°36 | 26°49 | 20°14 | F 30 |
| S 31 | 2 37 27 | 7♏39'50 | 9♑54 | 27♏22 | 3♐17 | 12♏ 2 | 24♏42 | 19♐ 2 | 16♓43 | 12♒ 4 | 18♈35 | 24♒ 5 | 23♒33 | 26♐56 | 20°R14 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3s 7 | 26s40 | 5s 3 | 3s28 | 0n58 | 9s32 | 0n37 | 14n45 | 1n18 | 16s35 | 0n48 | 21s34 | 1n13 | 5s39 | 0s48 | 17s16 | 0s 7 | 8s42 | 17s30 | 12s42 | 13s 9 | 27s50 | 15n25 | 6s42 |
| F 2 | 3 31 | 27 48 | 4 44 | 4 14 | 0 52 | 10 1 | 0 34 | 14 33 | 1 18 | 16 39 | 0 48 | 21 34 | 1 13 | 5 39 | 0 48 | 17 16 | 0 7 | 8 43 | 17 30 | 12 43 | 13 10 | 27 50 | 15 24 | 6 43 |
| S 3 | 3 54 | 27 39 | 4 12 | 5 0 | 0 46 | 10 30 | 0 32 | 14 21 | 1 19 | 16 42 | 0 47 | 21 35 | 1 13 | 5 40 | 0 48 | 17 17 | 0 7 | 8 43 | 17 30 | 12 44 | 13 11 | 27 49 | 15 23 | 6 43 |
| S 4 | 4 17 | 26 14 | 3 30 | 5 45 | 0 40 | 10 58 | 0 30 | 14 9 | 1 19 | 16 45 | 0 47 | 21 36 | 1 13 | 5 41 | 0 48 | 17 17 | 0 7 | 8 44 | 17 30 | 12 44 | 13 13 | 27 49 | 15 22 | 6 44 |
| M 5 | 4 40 | 23 37 | 2 38 | 6 29 | 0 33 | 11 27 | 0 27 | 13 57 | 1 20 | 16 48 | 0 47 | 21 36 | 1 13 | 5 42 | 0 48 | 17 17 | 0 7 | 8 44 | 17 30 | 12 43 | 13 14 | 27 49 | 15 21 | 6 44 |
| T 6 | 5 4 | 19 54 | 1 39 | 7 13 | 0 26 | 11 55 | 0 25 | 13 45 | 1 20 | 16 52 | 0 47 | 21 37 | 1 13 | 5 43 | 0 48 | 17 17 | 0 7 | 8 44 | 17 30 | 12 43 | 13 15 | 27 49 | 15 20 | 6 45 |
| W 7 | 5 27 | 15 15 | 0 33 | 7 57 | 0 20 | 12 22 | 0 22 | 13 33 | 1 21 | 16 55 | 0 47 | 21 37 | 1 12 | 5 43 | 0 48 | 17 17 | 0 7 | 8 45 | 17 30 | 12 42 | 13 16 | 27 49 | 15 19 | 6 46 |
| T 8 | 5 50 | 9 50 | 0n36 | 8 40 | 0 13 | 12 50 | 0 20 | 13 21 | 1 21 | 16 59 | 0 47 | 21 38 | 1 12 | 5 44 | 0 48 | 17 17 | 0 7 | 8 45 | 17 30 | 12 43 | 13 17 | 27 49 | 15 18 | 6 46 |
| F 9 | 6 13 | 3 49 | 1 45 | 9 22 | 0 6 | 13 17 | 0 17 | 13 9 | 1 21 | 17 2 | 0 47 | 21 38 | 1 12 | 5 45 | 0 48 | 17 18 | 0 7 | 8 46 | 17 30 | 12 43 | 13 18 | 27 49 | 15 17 | 6 47 |
| S 10 | 6 35 | 2n31 | 2 49 | 10 4 | 0s 1 | 13 44 | 0 15 | 12 56 | 1 22 | 17 5 | 0 46 | 21 39 | 1 12 | 5 46 | 0 48 | 17 18 | 0 7 | 8 46 | 17 30 | 12 45 | 13 19 | 27 49 | 15 16 | 6 48 |
| S 11 | 6 58 | 8 54 | 3 46 | 10 45 | 0 8 | 14 10 | 0 12 | 12 44 | 1 22 | 17 9 | 0 46 | 21 40 | 1 12 | 5 46 | 0 48 | 17 18 | 0 7 | 8 47 | 17 30 | 12 47 | 13 20 | 27 48 | 15 15 | 6 49 |
| M12 | 7 21 | 14 59 | 4 30 | 11 25 | 0 15 | 14 36 | 0 10 | 12 31 | 1 23 | 17 12 | 0 46 | 21 40 | 1 12 | 5 47 | 0 48 | 17 18 | 0 7 | 8 47 | 17 30 | 12 49 | 13 21 | 27 48 | 15 14 | 6 49 |
| T 13 | 7 43 | 20 19 | 4 57 | 12 5 | 0 21 | 15 2 | 0 7 | 12 19 | 1 23 | 17 15 | 0 46 | 21 41 | 1 11 | 5 48 | 0 48 | 17 18 | 0 7 | 8 47 | 17 30 | 12 52 | 13 22 | 27 48 | 15 13 | 6 50 |
| W14 | 8 6 | 24 29 | 5 5 | 12 44 | 0 28 | 15 27 | 0 5 | 12 6 | 1 24 | 17 19 | 0 46 | 21 41 | 1 11 | 5 49 | 0 48 | 17 18 | 0 7 | 8 48 | 17 30 | 12 55 | 13 23 | 27 48 | 15 12 | 6 51 |
| T 15 | 8 28 | 27 4 | 4 53 | 13 23 | 0 35 | 15 52 | 0 2 | 11 54 | 1 24 | 17 22 | 0 46 | 21 42 | 1 11 | 5 49 | 0 48 | 17 18 | 0 7 | 8 48 | 17 30 | 12 57 | 13 24 | 27 48 | 15 11 | 6 51 |
| F 16 | 8 50 | 27 47 | 4 23 | 14 1 | 0 42 | 16 17 | 0s 1 | 11 41 | 1 25 | 17 25 | 0 46 | 21 43 | 1 11 | 5 50 | 0 48 | 17 18 | 0 7 | 8 49 | 17 30 | 12 59 | 13 25 | 27 47 | 15 10 | 6 52 |
| S 17 | 9 12 | 26 38 | 3 36 | 14 37 | 0 49 | 16 41 | 0 3 | 11 28 | 1 25 | 17 29 | 0 46 | 21 43 | 1 11 | 5 51 | 0 48 | 17 18 | 0 7 | 8 49 | 17 30 | 13 0 | 13 26 | 27 47 | 15 9 | 6 53 |
| S 18 | 9 34 | 23 47 | 2 37 | 15 14 | 0 56 | 17 5 | 0 6 | 11 16 | 1 26 | 17 32 | 0 45 | 21 44 | 1 11 | 5 51 | 0 48 | 17 19 | 0 7 | 8 49 | 17 30 | 13 0 | 13 27 | 27 47 | 15 8 | 6 53 |
| M19 | 9 56 | 19 35 | 1 30 | 15 49 | 1 2 | 17 28 | 0 9 | 11 3 | 1 26 | 17 35 | 0 45 | 21 45 | 1 11 | 5 52 | 0 48 | 17 19 | 0 7 | 8 50 | 17 30 | 13 0 | 13 28 | 27 47 | 15 8 | 6 54 |
| T 20 | 10 18 | 14 25 | 0 18 | 16 24 | 1 9 | 17 51 | 0 11 | 10 50 | 1 26 | 17 39 | 0 45 | 21 45 | 1 10 | 5 53 | 0 48 | 17 19 | 0 7 | 8 50 | 17 30 | 13 0 | 13 29 | 27 47 | 15 7 | 6 55 |
| W21 | 10 39 | 8 38 | 0s53 | 16 57 | 1 15 | 18 14 | 0 14 | 10 37 | 1 27 | 17 42 | 0 45 | 21 46 | 1 10 | 5 53 | 0 48 | 17 19 | 0 7 | 8 50 | 17 30 | 13 0 | 13 31 | 27 46 | 15 6 | 6 55 |
| T 22 | 11 1 | 2 35 | 2 0 | 17 30 | 1 22 | 18 36 | 0 17 | 10 24 | 1 27 | 17 45 | 0 45 | 21 46 | 1 10 | 5 54 | 0 48 | 17 19 | 0 7 | 8 51 | 17 30 | 13 1 | 13 32 | 27 46 | 15 5 | 6 56 |
| F 23 | 11 22 | 3s29 | 3 0 | 18 2 | 1 28 | 18 57 | 0 20 | 10 12 | 1 28 | 17 49 | 0 45 | 21 47 | 1 10 | 5 54 | 0 48 | 17 19 | 0 7 | 8 51 | 17 30 | 13 3 | 13 33 | 27 46 | 15 4 | 6 57 |
| S 24 | 11 43 | 9 19 | 3 50 | 18 33 | 1 34 | 19 18 | 0 22 | 9 59 | 1 28 | 17 52 | 0 45 | 21 48 | 1 10 | 5 55 | 0 48 | 17 19 | 0 7 | 8 52 | 17 30 | 13 5 | 13 34 | 27 46 | 15 4 | 6 57 |
| S 25 | 12 4 | 14 41 | 4 27 | 19 4 | 1 40 | 19 39 | 0 25 | 9 46 | 1 29 | 17 55 | 0 45 | 21 48 | 1 10 | 5 56 | 0 48 | 17 19 | 0 7 | 8 52 | 17 30 | 13 9 | 13 35 | 27 45 | 15 3 | 6 58 |
| M26 | 12 24 | 19 22 | 4 51 | 19 33 | 1 46 | 19 59 | 0 28 | 9 33 | 1 29 | 17 59 | 0 45 | 21 49 | 1 10 | 5 56 | 0 48 | 17 19 | 0 7 | 8 52 | 17 30 | 13 13 | 13 36 | 27 45 | 15 2 | 6 59 |
| T 27 | 12 45 | 23 9 | 5 1 | 20 1 | 1 52 | 20 18 | 0 30 | 9 20 | 1 30 | 18 2 | 0 44 | 21 49 | 1 9 | 5 57 | 0 48 | 17 19 | 0 7 | 8 52 | 17 30 | 13 17 | 13 37 | 27 45 | 15 1 | 7 0 |
| W28 | 13 5 | 25 53 | 4 57 | 20 28 | 1 57 | 20 37 | 0 33 | 9 7 | 1 30 | 18 5 | 0 44 | 21 50 | 1 9 | 5 57 | 0 48 | 17 19 | 0 7 | 8 53 | 17 29 | 13 22 | 13 38 | 27 44 | 15 0 | 7 0 |
| T 29 | 13 25 | 27 23 | 4 40 | 20 55 | 2 2 | 20 55 | 0 36 | 8 54 | 1 31 | 18 8 | 0 44 | 21 51 | 1 9 | 5 58 | 0 48 | 17 19 | 0 7 | 8 53 | 17 29 | 13 25 | 13 39 | 27 44 | 15 0 | 7 1 |
| F 30 | 13 45 | 27 38 | 4 11 | 21 20 | 2 7 | 21 13 | 0 38 | 8 41 | 1 31 | 18 12 | 0 44 | 21 51 | 1 9 | 5 58 | 0 48 | 17 19 | 0 7 | 8 53 | 17 29 | 13 28 | 13 40 | 27 44 | 14 59 | 7 2 |
| S 31 | 14s 5 | 26s36 | 3s31 | 21s44 | 2s12 | 21s30 | 0s41 | 8n28 | 1n31 | 18s15 | 0n44 | 21s52 | 1n 9 | 5s59 | 0s48 | 17s19 | 0s 7 | 8s54 | 17s29 | 13s30 | 13s41 | 27s43 | 14n58 | 7s 2 |

Julian Day Number = 2393379.5, Delta T = 7.59 sec
Ecliptic obliquity = 23°27'44, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°31'00, Lahiri = 21°38'00

# ASTRODIENST EPHEMERIS for the year 1840
# geocentric

## NOVEMBER 1840 — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 41 23 | 8♏39'56 | 21♉43 | 28♏44 | 4♐32 | 12♍37 | 24♏55 | 19♐ 8 | 16°R42 | 12♒ 4 | 18°R34 | 24°R 2 | 23♒30 | 27♐ 3 | 20°R14 | S 1 |
| M 2 | 2 45 20 | 9°40'05 | 3♒39 | 0♐ 5 | 5°46 | 13°12 | 25° 8 | 19°14 | 16♓41 | 12° 5 | 18♈33 | 24♒ 1 | 23°26 | 27°10 | 20♋14 | M 2 |
| T 3 | 2 49 16 | 10°40'14 | 15°46 | 1°25 | 7° 0 | 13°47 | 25°21 | 19°20 | 16°40 | 12° 5 | 18°32 | 24°D 1 | 23°23 | 27°16 | 20°13 | T 3 |
| W 4 | 2 53 13 | 11°40'26 | 28° 9 | 2°44 | 8°14 | 14°22 | 25°34 | 19°26 | 16°39 | 12° 5 | 18°31 | 24°R 1 | 23°20 | 27°23 | 20°13 | W 4 |
| T 5 | 2 57 10 | 12°40'38 | 10♓53 | 4° 1 | 9°28 | 14°57 | 25°47 | 19°32 | 16°38 | 12° 6 | 18°30 | 24° 0 | 23°17 | 27°30 | 20°13 | T 5 |
| F 6 | 3 1 6 | 13°40'53 | 24° 4 | 5°17 | 10°43 | 15°32 | 26° 0 | 19°38 | 16°37 | 12° 6 | 18°29 | 23°57 | 23°14 | 27°36 | 20°12 | F 6 |
| S 7 | 3 5 3 | 14°41'08 | 7♈43 | 6°32 | 11°57 | 16° 7 | 26°14 | 19°44 | 16°36 | 12° 7 | 18°27 | 23°51 | 23°11 | 27°43 | 20°12 | S 7 |
| S 8 | 3 8 59 | 15°41'26 | 21°51 | 7°45 | 13°11 | 16°42 | 26°27 | 19°51 | 16°35 | 12° 7 | 18°26 | 23°43 | 23° 7 | 27°50 | 20°11 | S 8 |
| M 9 | 3 12 56 | 16°41'45 | 6♉24 | 8°55 | 14°25 | 17°16 | 26°40 | 19°57 | 16°34 | 12° 8 | 18°25 | 23°32 | 23° 4 | 27°56 | 20°10 | M 9 |
| T 10 | 3 16 52 | 17°42'05 | 21°16 | 10° 4 | 15°39 | 17°51 | 26°53 | 20° 3 | 16°33 | 12° 8 | 18°24 | 23°20 | 23° 1 | 28° 3 | 20° 9 | T 10 |
| W11 | 3 20 49 | 18°42'28 | 6♊19 | 11°10 | 16°53 | 18°25 | 27° 7 | 20°10 | 16°33 | 12° 9 | 18°24 | 23° 9 | 22°58 | 28°10 | 20° 8 | W11 |
| T 12 | 3 24 45 | 19°42'52 | 21°21 | 12°13 | 18° 7 | 19° 0 | 27°20 | 20°16 | 16°32 | 12° 9 | 18°23 | 22°59 | 22°55 | 28°17 | 20° 7 | T 12 |
| F 13 | 3 28 42 | 20°43'18 | 6♋15 | 13°14 | 19°21 | 19°34 | 27°33 | 20°22 | 16°31 | 12°10 | 18°22 | 22°51 | 22°51 | 28°23 | 20° 6 | F 13 |
| S 14 | 3 32 39 | 21°43'46 | 20°52 | 14°10 | 20°35 | 20° 8 | 27°47 | 20°29 | 16°31 | 12°11 | 18°21 | 22°46 | 22°48 | 28°30 | 20° 5 | S 14 |
| S 15 | 3 36 35 | 22°44'16 | 5♌ 9 | 15° 3 | 21°49 | 20°43 | 28° 0 | 20°35 | 16°30 | 12°11 | 18°20 | 22°44 | 22°45 | 28°37 | 20° 4 | S 15 |
| M16 | 3 40 32 | 23°44'47 | 19° 3 | 15°51 | 23° 3 | 21°17 | 28°13 | 20°42 | 16°30 | 12°12 | 18°19 | 22°44 | 22°42 | 28°43 | 20° 2 | M16 |
| T 17 | 3 44 28 | 24°45'21 | 2♍37 | 16°34 | 24°17 | 21°51 | 28°27 | 20°49 | 16°29 | 12°13 | 18°18 | 22°43 | 22°39 | 28°50 | 20° 1 | T 17 |
| W18 | 3 48 25 | 25°45'56 | 15°51 | 17°12 | 25°31 | 22°25 | 28°40 | 20°55 | 16°29 | 12°14 | 18°17 | 22°42 | 22°36 | 28°57 | 19°59 | W18 |
| T 19 | 3 52 21 | 26°46'33 | 28°49 | 17°43 | 26°45 | 22°59 | 28°53 | 21° 2 | 16°28 | 12°15 | 18°16 | 22°39 | 22°32 | 29° 3 | 19°58 | T 19 |
| F 20 | 3 56 18 | 27°47'11 | 11♎33 | 18° 6 | 27°59 | 23°33 | 29° 7 | 21° 8 | 16°28 | 12°15 | 18°15 | 22°33 | 22°29 | 29°10 | 19°56 | F 20 |
| S 21 | 4 0 14 | 28°47'52 | 24° 5 | 18°22 | 29°13 | 24° 6 | 29°20 | 21°15 | 16°28 | 12°16 | 18°14 | 22°24 | 22°26 | 29°17 | 19°54 | S 21 |
| S 22 | 4 4 11 | 29°48'33 | 6♏28 | 18°R30 | 0♑27 | 24°40 | 29°34 | 21°22 | 16°27 | 12°17 | 18°14 | 22°13 | 22°23 | 29°24 | 19°52 | S 22 |
| M23 | 4 8 8 | 0♐49'17 | 18°43 | 18°27 | 1°41 | 25°13 | 29°47 | 21°29 | 16°27 | 12°18 | 18°13 | 21°59 | 22°20 | 29°30 | 19°50 | M23 |
| T 24 | 4 12 4 | 1°50'02 | 0♐49 | 18°15 | 2°55 | 25°47 | 0♐ 0 | 21°35 | 16°27 | 12°19 | 18°12 | 21°44 | 22°17 | 29°37 | 19°48 | T 24 |
| W25 | 4 16 1 | 2°50'48 | 12°49 | 17°52 | 4° 9 | 26°20 | 0°14 | 21°42 | 16°27 | 12°20 | 18°11 | 21°30 | 22°13 | 29°44 | 19°46 | W25 |
| T 26 | 4 19 57 | 3°51'35 | 24°43 | 17°18 | 5°23 | 26°54 | 0°27 | 21°49 | 16°D27 | 12°21 | 18°10 | 21°17 | 22°10 | 29°50 | 19°43 | T 26 |
| F 27 | 4 23 54 | 4°52'24 | 6♑33 | 16°33 | 6°37 | 27°27 | 0°41 | 21°56 | 16°27 | 12°23 | 18°10 | 21° 6 | 22° 7 | 29°57 | 19°41 | F 27 |
| S 28 | 4 27 50 | 5°53'14 | 18°21 | 15°38 | 7°51 | 28° 0 | 0°54 | 22° 3 | 16°27 | 12°24 | 18° 9 | 20°59 | 22° 4 | 0♑ 4 | 19°39 | S 28 |
| S 29 | 4 31 47 | 6°54'04 | 0♒10 | 14°33 | 9° 4 | 28°33 | 1° 7 | 22°10 | 16°27 | 12°25 | 18° 8 | 20°54 | 22° 1 | 0°10 | 19°36 | S 29 |
| M30 | 4 35 43 | 7♐54'56 | 12♒ 4 | 13♐21 | 10♑18 | 29♍ 6 | 1♐21 | 22♐17 | 16♓28 | 12♒26 | 18♈ 8 | 20♒52 | 21♒57 | 0♑17 | 19♋34 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 14s24 | 24s23 | 2s42 | 22s 7 | 2s16 | 21s47 | 0s44 | 8n15 | 1n32 | 18s18 | 0n44 | 21s53 | 1n 9 | 5s59 | 0s48 | 17s18 | 0s 7 | 8s54 | 17s29 | 13s31 | 13s42 | 27s43 | 14n58 | 7s 3 |
| M 2 | 14 43 | 21 4 | 1 46 | 22 29 | 2 21 | 22 3 | 0 46 | 8 2 | 1 32 | 18 21 | 0 44 | 21 53 | 1 9 | 5 59 | 0 48 | 17 18 | 0 7 | 8 54 | 17 29 | 13 32 | 13 43 | 27 43 | 14 57 | 7 4 |
| T 3 | 15 2 | 16 49 | 0 44 | 22 49 | 2 24 | 22 18 | 0 49 | 7 49 | 1 33 | 18 25 | 0 44 | 21 54 | 1 8 | 6 0 | 0 48 | 17 18 | 0 7 | 8 54 | 17 29 | 13 32 | 13 44 | 27 42 | 14 56 | 7 4 |
| W 4 | 15 21 | 11 47 | 0n22 | 23 9 | 2 28 | 22 33 | 0 51 | 7 35 | 1 33 | 18 28 | 0 44 | 21 54 | 1 8 | 6 0 | 0 47 | 17 18 | 0 7 | 8 55 | 17 29 | 13 32 | 13 45 | 27 42 | 14 56 | 7 5 |
| T 5 | 15 39 | 6 8 | 1 28 | 23 27 | 2 31 | 22 47 | 0 54 | 7 22 | 1 34 | 18 31 | 0 44 | 21 55 | 1 8 | 6 1 | 0 47 | 17 18 | 0 7 | 8 55 | 17 28 | 13 32 | 13 46 | 27 42 | 14 55 | 7 6 |
| F 6 | 15 58 | 0 2 | 2 32 | 23 44 | 2 34 | 23 0 | 0 57 | 7 9 | 1 34 | 18 34 | 0 43 | 21 56 | 1 8 | 6 1 | 0 47 | 17 18 | 0 7 | 8 55 | 17 28 | 13 33 | 13 47 | 27 41 | 14 54 | 7 7 |
| S 7 | 16 16 | 6n16 | 3 29 | 23 59 | 2 36 | 23 13 | 0 59 | 6 56 | 1 35 | 18 37 | 0 43 | 21 56 | 1 8 | 6 1 | 0 47 | 17 18 | 0 7 | 8 55 | 17 28 | 13 35 | 13 48 | 27 41 | 14 54 | 7 7 |
| S 8 | 16 33 | 12 28 | 4 15 | 24 13 | 2 38 | 23 25 | 1 2 | 6 43 | 1 35 | 18 41 | 0 43 | 21 57 | 1 8 | 6 2 | 0 47 | 17 18 | 0 7 | 8 56 | 17 28 | 13 38 | 13 49 | 27 41 | 14 53 | 7 8 |
| M 9 | 16 51 | 18 10 | 4 47 | 24 26 | 2 40 | 23 37 | 1 4 | 6 30 | 1 36 | 18 44 | 0 43 | 21 57 | 1 8 | 6 2 | 0 47 | 17 18 | 0 7 | 8 56 | 17 28 | 13 41 | 13 50 | 27 40 | 14 53 | 7 9 |
| T 10 | 17 8 | 22 55 | 5 0 | 24 38 | 2 40 | 23 47 | 1 6 | 6 17 | 1 36 | 18 47 | 0 43 | 21 58 | 1 8 | 6 2 | 0 47 | 17 17 | 0 7 | 8 56 | 17 28 | 13 45 | 13 51 | 27 40 | 14 52 | 7 9 |
| W11 | 17 24 | 26 11 | 4 52 | 24 47 | 2 41 | 23 57 | 1 9 | 6 4 | 1 36 | 18 50 | 0 43 | 21 59 | 1 7 | 6 2 | 0 47 | 17 17 | 0 7 | 8 56 | 17 27 | 13 49 | 13 53 | 27 39 | 14 52 | 7 10 |
| T 12 | 17 41 | 27 35 | 4 25 | 24 56 | 2 40 | 24 7 | 1 11 | 5 51 | 1 37 | 18 53 | 0 43 | 21 59 | 1 7 | 6 3 | 0 47 | 17 17 | 0 7 | 8 56 | 17 27 | 13 52 | 13 54 | 27 39 | 14 51 | 7 11 |
| F 13 | 17 57 | 26 58 | 3 39 | 25 2 | 2 39 | 24 15 | 1 13 | 5 38 | 1 37 | 18 56 | 0 43 | 22 0 | 1 7 | 6 3 | 0 47 | 17 17 | 0 7 | 8 56 | 17 27 | 13 55 | 13 55 | 27 39 | 14 51 | 7 11 |
| S 14 | 18 13 | 24 28 | 2 40 | 25 7 | 2 37 | 24 23 | 1 16 | 5 24 | 1 38 | 18 59 | 0 43 | 22 0 | 1 7 | 6 3 | 0 47 | 17 17 | 0 7 | 8 57 | 17 27 | 13 56 | 13 56 | 27 38 | 14 50 | 7 12 |
| S 15 | 18 28 | 20 29 | 1 31 | 25 11 | 2 35 | 24 30 | 1 18 | 5 11 | 1 38 | 19 2 | 0 43 | 22 1 | 1 7 | 6 3 | 0 47 | 17 17 | 0 7 | 8 57 | 17 26 | 13 57 | 13 57 | 27 38 | 14 50 | 7 13 |
| M16 | 18 44 | 15 26 | 0 19 | 25 13 | 2 31 | 24 37 | 1 20 | 4 58 | 1 39 | 19 5 | 0 43 | 22 1 | 1 7 | 6 3 | 0 47 | 17 16 | 0 7 | 8 57 | 17 26 | 13 57 | 13 58 | 27 37 | 14 49 | 7 13 |
| T 17 | 18 59 | 9 45 | 0s52 | 25 13 | 2 26 | 24 43 | 1 22 | 4 45 | 1 39 | 19 8 | 0 42 | 22 2 | 1 7 | 6 4 | 0 47 | 17 16 | 0 7 | 8 57 | 17 26 | 13 57 | 13 59 | 27 37 | 14 49 | 7 14 |
| W18 | 19 13 | 3 46 | 1 59 | 25 11 | 2 20 | 24 48 | 1 24 | 4 32 | 1 40 | 19 12 | 0 42 | 22 3 | 1 7 | 6 4 | 0 47 | 17 16 | 0 7 | 8 57 | 17 26 | 13 58 | 14 0 | 27 36 | 14 48 | 7 14 |
| T 19 | 19 27 | 2s15 | 2 58 | 25 7 | 2 14 | 24 52 | 1 27 | 4 19 | 1 40 | 19 15 | 0 42 | 22 3 | 1 7 | 6 4 | 0 47 | 17 16 | 0 7 | 8 57 | 17 26 | 13 59 | 14 1 | 27 36 | 14 48 | 7 15 |
| F 20 | 19 41 | 8 3 | 3 47 | 25 1 | 2 5 | 24 55 | 1 29 | 4 6 | 1 41 | 19 17 | 0 42 | 22 4 | 1 6 | 6 4 | 0 47 | 17 15 | 0 7 | 8 57 | 17 25 | 14 0 | 14 2 | 27 35 | 14 48 | 7 16 |
| S 21 | 19 55 | 13 27 | 4 24 | 24 53 | 1 56 | 24 58 | 1 31 | 3 53 | 1 41 | 19 20 | 0 42 | 22 4 | 1 6 | 6 4 | 0 47 | 17 15 | 0 8 | 8 57 | 17 25 | 14 3 | 14 3 | 27 35 | 14 47 | 7 16 |
| S 22 | 20 8 | 18 14 | 4 49 | 24 42 | 1 45 | 25 0 | 1 32 | 3 40 | 1 41 | 19 23 | 0 42 | 22 5 | 1 6 | 6 4 | 0 47 | 17 15 | 0 8 | 8 57 | 17 25 | 14 7 | 14 4 | 27 34 | 14 47 | 7 17 |
| M23 | 20 21 | 22 12 | 4 59 | 24 30 | 1 33 | 25 1 | 1 34 | 3 28 | 1 42 | 19 26 | 0 42 | 22 5 | 1 6 | 6 4 | 0 47 | 17 15 | 0 8 | 8 58 | 17 25 | 14 12 | 14 5 | 27 34 | 14 47 | 7 18 |
| T 24 | 20 33 | 25 10 | 4 56 | 24 15 | 1 19 | 25 2 | 1 36 | 3 15 | 1 42 | 19 29 | 0 42 | 22 6 | 1 6 | 6 4 | 0 47 | 17 14 | 0 8 | 8 58 | 17 24 | 14 16 | 14 6 | 27 33 | 14 46 | 7 18 |
| W25 | 20 45 | 26 59 | 4 40 | 23 58 | 1 3 | 25 2 | 1 38 | 3 2 | 1 43 | 19 32 | 0 42 | 22 6 | 1 6 | 6 4 | 0 47 | 17 14 | 0 8 | 8 58 | 17 24 | 14 21 | 14 7 | 27 33 | 14 46 | 7 19 |
| T 26 | 20 57 | 27 32 | 4 11 | 23 38 | 0 46 | 25 1 | 1 39 | 2 49 | 1 43 | 19 35 | 0 42 | 22 7 | 1 6 | 6 4 | 0 47 | 17 14 | 0 8 | 8 58 | 17 24 | 14 25 | 14 8 | 27 32 | 14 46 | 7 19 |
| F 27 | 21 8 | 26 49 | 3 32 | 23 15 | 0 28 | 24 59 | 1 41 | 2 36 | 1 44 | 19 38 | 0 42 | 22 7 | 1 6 | 6 4 | 0 47 | 17 14 | 0 8 | 8 58 | 17 24 | 14 29 | 14 9 | 27 32 | 14 45 | 7 20 |
| S 28 | 21 19 | 24 54 | 2 43 | 22 50 | 0 9 | 24 56 | 1 43 | 2 23 | 1 44 | 19 41 | 0 42 | 22 8 | 1 6 | 6 4 | 0 47 | 17 13 | 0 8 | 8 58 | 17 23 | 14 31 | 14 10 | 27 31 | 14 45 | 7 20 |
| S 29 | 21 29 | 21 53 | 1 48 | 22 23 | 0n11 | 24 53 | 1 44 | 2 11 | 1 45 | 19 43 | 0 42 | 22 8 | 1 6 | 6 4 | 0 47 | 17 13 | 0 8 | 8 58 | 17 23 | 14 32 | 14 11 | 27 31 | 14 45 | 7 21 |
| M30 | 21s39 | 17s56 | 0s47 | 21s54 | 0n31 | 24s49 | 1s46 | 1n58 | 1n45 | 19s46 | 0n42 | 22s 9 | 1n 6 | 6s 4 | 0s46 | 17s13 | 0s 8 | 8s58 | 17s23 | 14s33 | 14s12 | 27s30 | 14n45 | 7s22 |

Julian Day Number = 2393410.5, Delta T = 7.60 sec
Ecliptic obliquity = 23°27'43, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°31'04, Lahiri = 21°38'04

# ASTRODIENST EPHEMERIS for the year 1840
# geocentric

## DECEMBER 1840 — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 4 39 40 | 8♐55'49 | 24♒ 8 | 12°R 2 | 11♑32 | 29♍39 | 1♐34 | 22♐24 | 16♓28 | 12♒27 | 18°R 7 | 20°D52 | 21♒54 | 0♑24 | 19°R31 | T 1 |
| W 2 | 4 43 37 | 9°56'42 | 6♓27 | 10♐40 | 12°46 | 0♎11 | 1°47 | 22°31 | 16°28 | 12°29 | 18♈ 6 | 20°R52 | 21°51 | 0°30 | 19♋28 | W 2 |
| T 3 | 4 47 33 | 10°57'36 | 19° 6 | 9°17 | 13°59 | 0°44 | 2° 1 | 22°38 | 16°28 | 12°30 | 18° 6 | 20♒52 | 21°48 | 0°37 | 19°25 | T 3 |
| F 4 | 4 51 30 | 11°58'31 | 2♈10 | 7°56 | 15°13 | 1°16 | 2°14 | 22°45 | 16°29 | 12°31 | 18° 5 | 20°50 | 21°45 | 0°44 | 19°22 | F 4 |
| S 5 | 4 55 26 | 12°59'26 | 15°43 | 6°40 | 16°27 | 1°49 | 2°27 | 22°52 | 16°29 | 12°33 | 18° 4 | 20°46 | 21°42 | 0°51 | 19°19 | S 5 |
| S 6 | 4 59 23 | 14° 0'23 | 29°46 | 5°31 | 17°40 | 2°21 | 2°41 | 22°59 | 16°30 | 12°34 | 18° 4 | 20°40 | 21°38 | 0°57 | 19°16 | S 6 |
| M 7 | 5 3 19 | 15° 1'20 | 14♉19 | 4°31 | 18°54 | 2°53 | 2°54 | 23° 6 | 16°30 | 12°35 | 18° 3 | 20°31 | 21°35 | 1° 4 | 19°13 | M 7 |
| T 8 | 5 7 16 | 16° 2'18 | 29°17 | 3°42 | 20° 7 | 3°25 | 3° 7 | 23°13 | 16°31 | 12°37 | 18° 3 | 20°21 | 21°32 | 1°11 | 19°10 | T 8 |
| W 9 | 5 11 12 | 17° 3'16 | 14♊30 | 3° 3 | 21°21 | 3°57 | 3°20 | 23°20 | 16°32 | 12°38 | 18° 2 | 20°11 | 21°29 | 1°17 | 19° 7 | W 9 |
| T 10 | 5 15 9 | 18° 4'16 | 29°49 | 2°36 | 22°35 | 4°29 | 3°34 | 23°27 | 16°32 | 12°40 | 18° 2 | 20° 2 | 21°26 | 1°24 | 19° 4 | T 10 |
| F 11 | 5 19 6 | 19° 5'16 | 15♋ 2 | 2°19 | 23°48 | 5° 1 | 3°47 | 23°34 | 16°33 | 12°41 | 18° 1 | 19°55 | 21°23 | 1°31 | 19° 0 | F 11 |
| S 12 | 5 23 2 | 20° 6'18 | 29°59 | 2°D14 | 25° 1 | 5°32 | 4° 0 | 23°41 | 16°34 | 12°43 | 18° 1 | 19°51 | 21°19 | 1°37 | 18°57 | S 12 |
| S 13 | 5 26 59 | 21° 7'20 | 14♌33 | 2°18 | 26°15 | 6° 4 | 4°13 | 23°48 | 16°35 | 12°44 | 18° 0 | 19°D49 | 21°16 | 1°44 | 18°53 | S 13 |
| M14 | 5 30 55 | 22° 8'23 | 28°41 | 2°32 | 27°28 | 6°35 | 4°26 | 23°55 | 16°36 | 12°46 | 18° 0 | 19°49 | 21°13 | 1°51 | 18°50 | M14 |
| T 15 | 5 34 52 | 23° 9'27 | 12♍23 | 2°55 | 28°41 | 7° 6 | 4°39 | 24° 2 | 16°37 | 12°47 | 18° 0 | 19°50 | 21°10 | 1°57 | 18°46 | T 15 |
| W16 | 5 38 48 | 24°10'32 | 25°39 | 3°25 | 29°55 | 7°38 | 4°52 | 24° 9 | 16°38 | 12°49 | 17°59 | 19°R51 | 21° 7 | 2° 4 | 18°43 | W16 |
| T 17 | 5 42 45 | 25°11'38 | 8♎34 | 4° 2 | 1♒ 8 | 8° 9 | 5° 5 | 24°16 | 16°39 | 12°51 | 17°59 | 19°50 | 21° 3 | 2°11 | 18°39 | T 17 |
| F 18 | 5 46 42 | 26°12'45 | 21°11 | 4°46 | 2°21 | 8°39 | 5°18 | 24°23 | 16°40 | 12°52 | 17°58 | 19°46 | 21° 0 | 2°18 | 18°35 | F 18 |
| S 19 | 5 50 38 | 27°13'52 | 3♏34 | 5°34 | 3°34 | 9°10 | 5°31 | 24°30 | 16°41 | 12°54 | 17°58 | 19°41 | 20°57 | 2°24 | 18°31 | S 19 |
| S 20 | 5 54 35 | 28°15'00 | 15°45 | 6°28 | 4°47 | 9°41 | 5°44 | 24°38 | 16°42 | 12°56 | 17°58 | 19°33 | 20°54 | 2°31 | 18°27 | S 20 |
| M21 | 5 58 31 | 29°16'09 | 27°49 | 7°26 | 6° 0 | 10°11 | 5°57 | 24°45 | 16°44 | 12°58 | 17°58 | 19°24 | 20°51 | 2°38 | 18°24 | M21 |
| T 22 | 6 2 28 | 0♑17'19 | 9♐46 | 8°28 | 7°13 | 10°41 | 6°10 | 24°52 | 16°45 | 12°59 | 17°57 | 19°13 | 20°48 | 2°44 | 18°20 | T 22 |
| W23 | 6 6 24 | 1°18'29 | 21°39 | 9°32 | 8°26 | 11°12 | 6°23 | 24°59 | 16°46 | 13° 1 | 17°57 | 19° 3 | 20°44 | 2°51 | 18°16 | W23 |
| T 24 | 6 10 21 | 2°19'39 | 3♑30 | 10°40 | 9°39 | 11°42 | 6°36 | 25° 6 | 16°48 | 13° 3 | 17°57 | 18°55 | 20°41 | 2°58 | 18°12 | T 24 |
| F 25 | 6 14 17 | 3°20'50 | 15°19 | 11°51 | 10°52 | 12°11 | 6°48 | 25°13 | 16°49 | 13° 5 | 17°57 | 18°48 | 20°38 | 3° 4 | 18° 8 | F 25 |
| S 26 | 6 18 14 | 4°22'01 | 27° 9 | 13° 3 | 12° 5 | 12°41 | 7° 1 | 25°20 | 16°51 | 13° 7 | 17°57 | 18°43 | 20°35 | 3°11 | 18° 4 | S 26 |
| S 27 | 6 22 11 | 5°23'11 | 9♒ 2 | 14°18 | 13°18 | 13°11 | 7°14 | 25°27 | 16°52 | 13° 9 | 17°56 | 18°40 | 20°32 | 3°18 | 17°59 | S 27 |
| M28 | 6 26 7 | 6°24'22 | 21° 1 | 15°34 | 14°30 | 13°40 | 7°26 | 25°34 | 16°54 | 13°11 | 17°56 | 18°D40 | 20°29 | 3°24 | 17°55 | M28 |
| T 29 | 6 30 4 | 7°25'33 | 3♓ 8 | 16°52 | 15°43 | 14° 9 | 7°39 | 25°41 | 16°55 | 13°12 | 17°56 | 18°40 | 20°25 | 3°31 | 17°51 | T 29 |
| W30 | 6 34 0 | 8°26'44 | 15°28 | 18°12 | 16°56 | 14°38 | 7°51 | 25°48 | 16°57 | 13°14 | 17°56 | 18°42 | 20°22 | 3°38 | 17°47 | W30 |
| T 31 | 6 37 57 | 9♑27'54 | 28♓ 6 | 19♐33 | 18♒ 8 | 15♎ 7 | 8♐ 4 | 25♐55 | 16♓59 | 13♒16 | 17♈56 | 18♒44 | 20♒19 | 3♑45 | 17♋43 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21s49 | 13s13 | 0n17 | 21s24 | 0n52 | 24s44 | 1s47 | 1n45 | 1n46 | 19s49 | 0n42 | 22s 9 | 1n 5 | 6s 4 | 0s46 | 17s12 | 0s 8 | 8s58 | 17s22 | 14s33 | 14s13 | 27s30 | 14n45 | 7s22 |
| W 2 | 21 58 | 7 53 | 1 22 | 20 53 | 1 11 | 24 39 | 1 48 | 1 33 | 1 46 | 19 52 | 0 42 | 22 10 | 1 5 | 6 3 | 0 46 | 17 12 | 0 8 | 8 58 | 17 22 | 14 33 | 14 14 | 27 29 | 14 45 | 7 23 |
| T 3 | 22 6 | 2 7 | 2 24 | 20 23 | 1 30 | 24 32 | 1 49 | 1 20 | 1 47 | 19 54 | 0 41 | 22 10 | 1 5 | 6 3 | 0 46 | 17 12 | 0 8 | 8 58 | 17 22 | 14 33 | 14 15 | 27 28 | 14 44 | 7 23 |
| F 4 | 22 15 | 3n56 | 3 21 | 19 53 | 1 48 | 24 25 | 1 51 | 1 8 | 1 47 | 19 57 | 0 41 | 22 11 | 1 5 | 6 3 | 0 46 | 17 11 | 0 8 | 8 57 | 17 21 | 14 34 | 14 16 | 27 28 | 14 44 | 7 24 |
| S 5 | 22 23 | 10 1 | 4 9 | 19 25 | 2 3 | 24 18 | 1 52 | 0 55 | 1 47 | 20 0 | 0 41 | 22 11 | 1 5 | 6 3 | 0 46 | 17 11 | 0 8 | 8 57 | 17 21 | 14 35 | 14 17 | 27 27 | 14 44 | 7 24 |
| S 6 | 22 30 | 15 49 | 4 43 | 19 1 | 2 16 | 24 9 | 1 53 | 0 43 | 1 48 | 20 2 | 0 41 | 22 12 | 1 5 | 6 3 | 0 46 | 17 10 | 0 8 | 8 57 | 17 21 | 14 37 | 14 18 | 27 27 | 14 44 | 7 25 |
| M 7 | 22 37 | 20 56 | 5 1 | 18 39 | 2 27 | 24 0 | 1 54 | 0 31 | 1 48 | 20 5 | 0 41 | 22 12 | 1 5 | 6 2 | 0 46 | 17 10 | 0 8 | 8 57 | 17 21 | 14 40 | 14 19 | 27 26 | 14 44 | 7 25 |
| T 8 | 22 44 | 24 53 | 4 59 | 18 21 | 2 36 | 23 50 | 1 54 | 0 18 | 1 49 | 20 8 | 0 41 | 22 12 | 1 5 | 6 2 | 0 46 | 17 10 | 0 8 | 8 57 | 17 20 | 14 43 | 14 20 | 27 25 | 14 44 | 7 26 |
| W 9 | 22 50 | 27 8 | 4 37 | 18 8 | 2 43 | 23 40 | 1 55 | 0 6 | 1 49 | 20 10 | 0 41 | 22 13 | 1 5 | 6 2 | 0 46 | 17 9 | 0 8 | 8 57 | 17 20 | 14 46 | 14 21 | 27 25 | 14 44 | 7 26 |
| T 10 | 22 56 | 27 21 | 3 54 | 17 58 | 2 47 | 23 28 | 1 56 | 0s 6 | 1 50 | 20 13 | 0 41 | 22 13 | 1 5 | 6 1 | 0 46 | 17 9 | 0 8 | 8 57 | 17 20 | 14 49 | 14 22 | 27 24 | 14 44 | 7 27 |
| F 11 | 23 1 | 25 30 | 2 54 | 17 53 | 2 49 | 23 16 | 1 56 | 0 18 | 1 50 | 20 15 | 0 41 | 22 14 | 1 5 | 6 1 | 0 46 | 17 8 | 0 8 | 8 57 | 17 19 | 14 51 | 14 23 | 27 23 | 14 44 | 7 27 |
| S 12 | 23 6 | 21 52 | 1 44 | 17 51 | 2 50 | 23 4 | 1 57 | 0 30 | 1 51 | 20 18 | 0 41 | 22 14 | 1 5 | 6 1 | 0 46 | 17 8 | 0 8 | 8 57 | 17 19 | 14 53 | 14 24 | 27 23 | 14 44 | 7 27 |
| S 13 | 23 10 | 16 56 | 0 28 | 17 52 | 2 49 | 22 51 | 1 57 | 0 43 | 1 51 | 20 20 | 0 41 | 22 15 | 1 5 | 6 0 | 0 46 | 17 8 | 0 8 | 8 57 | 17 19 | 14 53 | 14 25 | 27 22 | 14 44 | 7 28 |
| M14 | 23 14 | 11 12 | 0s47 | 17 57 | 2 47 | 22 37 | 1 58 | 0 55 | 1 52 | 20 23 | 0 41 | 22 15 | 1 4 | 6 0 | 0 46 | 17 7 | 0 8 | 8 56 | 17 18 | 14 53 | 14 26 | 27 21 | 14 44 | 7 28 |
| T 15 | 23 17 | 5 7 | 1 58 | 18 5 | 2 44 | 22 22 | 1 58 | 1 6 | 1 52 | 20 25 | 0 41 | 22 15 | 1 4 | 6 0 | 0 46 | 17 7 | 0 8 | 8 56 | 17 18 | 14 53 | 14 27 | 27 21 | 14 44 | 7 29 |
| W16 | 23 20 | 1s 1 | 3 0 | 18 15 | 2 40 | 22 7 | 1 58 | 1 18 | 1 53 | 20 28 | 0 41 | 22 16 | 1 4 | 5 59 | 0 46 | 17 6 | 0 8 | 8 56 | 17 18 | 14 53 | 14 29 | 27 20 | 14 44 | 7 29 |
| T 17 | 23 22 | 6 56 | 3 51 | 18 27 | 2 34 | 21 51 | 1 58 | 1 30 | 1 53 | 20 30 | 0 41 | 22 16 | 1 4 | 5 59 | 0 46 | 17 6 | 0 8 | 8 56 | 17 17 | 14 53 | 14 30 | 27 19 | 14 44 | 7 29 |
| F 18 | 23 24 | 12 26 | 4 29 | 18 40 | 2 29 | 21 34 | 1 58 | 1 42 | 1 54 | 20 32 | 0 41 | 22 16 | 1 4 | 5 58 | 0 46 | 17 5 | 0 8 | 8 56 | 17 17 | 14 54 | 14 31 | 27 19 | 14 45 | 7 30 |
| S 19 | 23 26 | 17 19 | 4 54 | 18 55 | 2 22 | 21 17 | 1 58 | 1 53 | 1 54 | 20 35 | 0 41 | 22 17 | 1 4 | 5 58 | 0 46 | 17 5 | 0 8 | 8 55 | 17 17 | 14 56 | 14 32 | 27 18 | 14 45 | 7 30 |
| S 20 | 23 27 | 21 26 | 5 5 | 19 11 | 2 15 | 21 0 | 1 58 | 2 5 | 1 55 | 20 37 | 0 41 | 22 17 | 1 4 | 5 57 | 0 46 | 17 4 | 0 8 | 8 55 | 17 16 | 14 58 | 14 33 | 27 17 | 14 45 | 7 30 |
| M21 | 23 28 | 24 36 | 5 3 | 19 28 | 2 8 | 20 41 | 1 58 | 2 16 | 1 55 | 20 39 | 0 41 | 22 17 | 1 4 | 5 57 | 0 46 | 17 4 | 0 8 | 8 55 | 17 16 | 15 1 | 14 34 | 27 17 | 14 45 | 7 31 |
| T 22 | 23 28 | 26 40 | 4 47 | 19 45 | 2 0 | 20 23 | 1 57 | 2 28 | 1 55 | 20 41 | 0 41 | 22 18 | 1 4 | 5 56 | 0 46 | 17 3 | 0 8 | 8 55 | 17 15 | 15 4 | 14 35 | 27 16 | 14 45 | 7 31 |
| W23 | 23 27 | 27 30 | 4 19 | 20 3 | 1 53 | 20 3 | 1 57 | 2 39 | 1 56 | 20 44 | 0 41 | 22 18 | 1 4 | 5 56 | 0 46 | 17 3 | 0 8 | 8 55 | 17 15 | 15 7 | 14 36 | 27 15 | 14 46 | 7 31 |
| T 24 | 23 26 | 27 4 | 3 39 | 20 21 | 1 45 | 19 43 | 1 56 | 2 51 | 1 56 | 20 46 | 0 41 | 22 18 | 1 4 | 5 55 | 0 46 | 17 2 | 0 8 | 8 54 | 17 15 | 15 10 | 14 37 | 27 14 | 14 46 | 7 32 |
| F 25 | 23 25 | 25 24 | 2 50 | 20 38 | 1 36 | 19 23 | 1 56 | 3 2 | 1 57 | 20 48 | 0 41 | 22 19 | 1 4 | 5 54 | 0 45 | 17 2 | 0 8 | 8 54 | 17 14 | 15 12 | 14 38 | 27 14 | 14 46 | 7 32 |
| S 26 | 23 23 | 22 37 | 1 54 | 20 56 | 1 28 | 19 2 | 1 55 | 3 13 | 1 57 | 20 50 | 0 41 | 22 19 | 1 4 | 5 54 | 0 45 | 17 1 | 0 8 | 8 54 | 17 14 | 15 14 | 14 39 | 27 13 | 14 46 | 7 32 |
| S 27 | 23 21 | 18 51 | 0 52 | 21 13 | 1 20 | 18 40 | 1 54 | 3 24 | 1 58 | 20 52 | 0 41 | 22 19 | 1 4 | 5 53 | 0 45 | 17 1 | 0 8 | 8 53 | 17 14 | 15 15 | 14 40 | 27 12 | 14 47 | 7 32 |
| M28 | 23 18 | 14 18 | 0n13 | 21 30 | 1 12 | 18 18 | 1 53 | 3 35 | 1 58 | 20 54 | 0 40 | 22 20 | 1 4 | 5 53 | 0 45 | 17 0 | 0 8 | 8 53 | 17 13 | 15 15 | 14 41 | 27 11 | 14 47 | 7 33 |
| T 29 | 23 15 | 9 9 | 1 18 | 21 46 | 1 3 | 17 56 | 1 52 | 3 46 | 1 59 | 20 56 | 0 40 | 22 20 | 1 4 | 5 52 | 0 45 | 17 0 | 0 8 | 8 53 | 17 13 | 15 15 | 14 42 | 27 11 | 14 47 | 7 33 |
| W30 | 23 12 | 3 34 | 2 21 | 22 2 | 0 55 | 17 33 | 1 51 | 3 56 | 1 59 | 20 58 | 0 40 | 22 20 | 1 4 | 5 51 | 0 45 | 16 59 | 0 8 | 8 53 | 17 13 | 15 14 | 14 43 | 27 10 | 14 48 | 7 33 |
| T 31 | 23s 7 | 2n16 | 3n18 | 22s16 | 0n47 | 17s 9 | 1s50 | 4s 7 | 2n 0 | 21s 0 | 0n40 | 22s20 | 1n 4 | 5s50 | 0s45 | 16s59 | 0s 8 | 8s52 | 17s12 | 15s14 | 14s44 | 27s 9 | 14n48 | 7s33 |

Julian Day Number = 2393440.5, Delta T = 7.60 sec
Ecliptic obliquity = 23°27'43, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°31'08, Lahiri = 21°38'08