



# Astrodienst Ephemeris Tables for the year 1845

tropical geocentric zodiac

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

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

ASTRODIENST EPHEMERIS for the year 1845  
geocentric

JANUARY 1845

00:00 UT

| Day  | Sid.t   | ☉        | ☽      | ♊      | ♋      | ♌     | ♍     | ♎     | ♏     | ♐      | ♑      | ♒     | ♓     | ♈      | ♉      | Day  |
|------|---------|----------|--------|--------|--------|-------|-------|-------|-------|--------|--------|-------|-------|--------|--------|------|
| W 1  | 6 42 1  | 10°30'28 | 2°36   | 28°53  | 7°41   | 17°33 | 27°4  | 6°21  | 2°31  | 21°54  | 21°R58 | 4°R12 | 2°54  | 16°27  | 18°11  | W 1  |
| T 2  | 6 45 58 | 11°31'38 | 16° 2  | 29°14  | 8°55   | 18°11 | 27°12 | 6°28  | 2°32  | 21°56  | 21°Y58 | 4°D12 | 2°51  | 16°34  | 18°R11 | T 2  |
| F 3  | 6 49 54 | 12°32'48 | 29°50  | 29°25  | 10° 9  | 18°50 | 27°21 | 6°35  | 2°33  | 21°58  | 21°57  | 4°A13 | 2°48  | 16°40  | 18°11  | F 3  |
| S 4  | 6 53 51 | 13°33'58 | 13°59  | 29°R25 | 11°23  | 19°28 | 27°29 | 6°42  | 2°34  | 22° 0  | 21°57  | 4°14  | 2°44  | 16°47  | 18°11  | S 4  |
| S 5  | 6 57 47 | 14°35'09 | 28°30  | 29°14  | 12°37  | 20° 7 | 27°37 | 6°48  | 2°35  | 22° 2  | 21°D57 | 4°R15 | 2°41  | 16°53  | 18°11  | S 5  |
| M 6  | 7 1 44  | 15°36'20 | 13°19  | 28°50  | 13°51  | 20°45 | 27°46 | 6°55  | 2°36  | 22° 4  | 21°57  | 4°15  | 2°38  | 17° 0  | 18°10  | M 6  |
| T 7  | 7 5 40  | 16°37'31 | 28°20  | 28°15  | 15° 5  | 21°24 | 27°55 | 7° 2  | 2°38  | 22° 6  | 21°57  | 4°13  | 2°35  | 17° 7  | 18°10  | T 7  |
| W 8  | 7 9 37  | 17°38'41 | 13°36  | 27°29  | 16°19  | 22° 2 | 28° 4 | 7° 9  | 2°39  | 22° 8  | 21°58  | 4° 9  | 2°32  | 17°13  | 18° 9  | W 8  |
| T 9  | 7 13 33 | 18°39'52 | 28°26  | 26°32  | 17°33  | 22°40 | 28°13 | 7°16  | 2°41  | 22°10  | 21°58  | 4° 2  | 2°29  | 17°20  | 18° 8  | T 9  |
| F 10 | 7 17 30 | 19°41'02 | 13°12  | 25°27  | 18°48  | 23°19 | 28°22 | 7°23  | 2°42  | 22°12  | 21°58  | 3°55  | 2°25  | 17°27  | 18° 7  | F 10 |
| S 11 | 7 21 27 | 20°42'11 | 27°36  | 24°15  | 20° 2  | 23°57 | 28°31 | 7°30  | 2°44  | 22°14  | 21°58  | 3°47  | 2°22  | 17°33  | 18° 6  | S 11 |
| S 12 | 7 25 23 | 21°43'20 | 11°32  | 22°58  | 21°16  | 24°36 | 28°41 | 7°37  | 2°45  | 22°16  | 21°58  | 3°40  | 2°19  | 17°40  | 18° 5  | S 12 |
| M13  | 7 29 20 | 22°44'28 | 25° 0  | 21°39  | 22°30  | 25°14 | 28°50 | 7°44  | 2°47  | 22°18  | 21°58  | 3°35  | 2°16  | 17°47  | 18° 4  | M13  |
| T 14 | 7 33 16 | 23°45'36 | 8°Y 0  | 20°20  | 23°45  | 25°52 | 29° 0 | 7°51  | 2°48  | 22°20  | 21°58  | 3°31  | 2°13  | 17°53  | 18° 2  | T 14 |
| W15  | 7 37 13 | 24°46'42 | 20°36  | 19° 5  | 24°59  | 26°31 | 29°10 | 7°58  | 2°50  | 22°22  | 21°58  | 3°D30 | 2° 9  | 18° 0  | 18° 1  | W15  |
| T 16 | 7 41 9  | 25°47'48 | 2°B51  | 17°54  | 26°13  | 27° 9 | 29°20 | 8° 5  | 2°52  | 22°24  | 21°59  | 3°30  | 2° 6  | 18° 7  | 17°59  | T 16 |
| F 17 | 7 45 6  | 26°48'53 | 14°52  | 16°49  | 27°28  | 27°48 | 29°30 | 8°12  | 2°54  | 22°26  | 21°59  | 3°31  | 2° 3  | 18°13  | 17°58  | F 17 |
| S 18 | 7 49 2  | 27°49'57 | 26°43  | 15°52  | 28°42  | 28°26 | 29°40 | 8°19  | 2°55  | 22°28  | 21°59  | 3°32  | 2° 0  | 18°20  | 17°56  | S 18 |
| S 19 | 7 52 59 | 28°51'01 | 8°II30 | 15° 4  | 29°56  | 29° 4 | 29°51 | 8°26  | 2°57  | 22°30  | 22° 0  | 3°R32 | 1°57  | 18°27  | 17°54  | S 19 |
| M20  | 7 56 56 | 29°52'03 | 20°16  | 14°25  | 1°B11  | 29°43 | 0°Y 1 | 8°33  | 2°59  | 22°32  | 22° 0  | 3°30  | 1°54  | 18°33  | 17°52  | M20  |
| T 21 | 8 0 52  | 0°53'05  | 2°B 7  | 13°56  | 2°25   | 0°A21 | 0°12  | 8°40  | 3° 1  | 22°34  | 22° 0  | 3°26  | 1°50  | 18°40  | 17°50  | T 21 |
| W22  | 8 4 49  | 1°54'05  | 14° 5  | 13°35  | 3°39   | 0°59  | 0°22  | 8°47  | 3° 3  | 22°37  | 22° 1  | 3°19  | 1°47  | 18°47  | 17°47  | W22  |
| T 23 | 8 8 45  | 2°55'05  | 26°12  | 13°23  | 4°54   | 1°38  | 0°33  | 8°55  | 3° 5  | 22°39  | 22° 1  | 3°10  | 1°44  | 18°53  | 17°45  | T 23 |
| F 24 | 8 12 42 | 3°56'04  | 8°D30  | 13°D20 | 6° 8   | 2°16  | 0°44  | 9° 2  | 3° 7  | 22°41  | 22° 1  | 2°59  | 1°41  | 19° 0  | 17°43  | F 24 |
| S 25 | 8 16 38 | 4°57'02  | 20°59  | 13°25  | 7°23   | 2°54  | 0°55  | 9° 9  | 3° 9  | 22°43  | 22° 2  | 2°47  | 1°38  | 19° 7  | 17°40  | S 25 |
| S 26 | 8 20 35 | 5°57'59  | 3°B39  | 13°37  | 8°37   | 3°33  | 1° 6  | 9°16  | 3°12  | 22°45  | 22° 2  | 2°36  | 1°35  | 19°13  | 17°37  | S 26 |
| M27  | 8 24 31 | 6°58'56  | 16°31  | 13°55  | 9°52   | 4°11  | 1°17  | 9°23  | 3°14  | 22°47  | 22° 3  | 2°25  | 1°31  | 19°20  | 17°35  | M27  |
| T 28 | 8 28 28 | 7°59'51  | 29°35  | 14°20  | 11° 6  | 4°49  | 1°29  | 9°30  | 3°16  | 22°50  | 22° 3  | 2°17  | 1°28  | 19°26  | 17°32  | T 28 |
| W29  | 8 32 25 | 9° 0'46  | 12°A50 | 14°51  | 12°21  | 5°27  | 1°40  | 9°38  | 3°18  | 22°52  | 22° 4  | 2°11  | 1°25  | 19°33  | 17°29  | W29  |
| T 30 | 8 36 21 | 10° 1'40 | 26°19  | 15°27  | 13°35  | 6° 6  | 1°52  | 9°45  | 3°21  | 22°54  | 22° 4  | 2° 8  | 1°22  | 19°40  | 17°26  | T 30 |
| F 31 | 8 40 18 | 11°1'23  | 10°B 1 | 16°B 8 | 14°B50 | 6°A44 | 2°Y 3 | 9°A52 | 3°Y23 | 22°A56 | 22°Y 5 | 2°D 7 | 1°A19 | 19°B46 | 17°B23 | 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 3 | 5s14  | 4s35 | 20s39 | 0s15 | 20s 6 | 1n32 | 16s22 | 0n45 | 2s20 | 1s17 | 19s20 | 0s39 | 0n21 | 0s43 | 14s35 | 0s24 | 7s23 | 17s10 | 21s 0 | 20s45 | 21n34 | 0s15 | 5s21 |
| T 2  | 22 57 | 9 54  | 3 53 | 20 19 | 0n 1 | 20 19 | 1 30 | 16 33 | 0 44 | 2 17 | 1 16 | 19 18 | 0 39 | 0 21 | 0 43 | 14 35 | 0 24 | 7 22 | 17 9  | 21 0  | 20 45 | 21 34 | 0 15 | 5 21 |
| F 3  | 22 52 | 14 10 | 2 57 | 20 0  | 0 18 | 20 33 | 1 28 | 16 44 | 0 44 | 2 13 | 1 16 | 19 16 | 0 39 | 0 22 | 0 43 | 14 34 | 0 24 | 7 22 | 17 9  | 21 0  | 20 44 | 21 34 | 0 16 | 5 21 |
| S 4  | 22 46 | 17 46 | 1 48 | 19 42 | 0 36 | 20 45 | 1 25 | 16 55 | 0 43 | 2 10 | 1 16 | 19 15 | 0 39 | 0 22 | 0 43 | 14 34 | 0 24 | 7 22 | 17 8  | 21 1  | 20 43 | 21 33 | 0 16 | 5 22 |
| S 5  | 22 40 | 20 21 | 0 31 | 19 26 | 0 55 | 20 57 | 1 23 | 17 6  | 0 43 | 2 6  | 1 16 | 19 13 | 0 39 | 0 23 | 0 43 | 14 33 | 0 24 | 7 21 | 17 8  | 21 1  | 20 43 | 21 33 | 0 16 | 5 22 |
| M 6  | 22 33 | 21 36 | 0n49 | 19 12 | 1 14 | 21 9  | 1 21 | 17 17 | 0 42 | 2 3  | 1 16 | 19 11 | 0 39 | 0 23 | 0 43 | 14 32 | 0 24 | 7 21 | 17 8  | 21 1  | 20 42 | 21 33 | 0 16 | 5 23 |
| T 7  | 22 25 | 21 20 | 2 7  | 19 0  | 1 33 | 21 20 | 1 18 | 17 27 | 0 42 | 1 59 | 1 15 | 19 10 | 0 39 | 0 24 | 0 43 | 14 32 | 0 24 | 7 21 | 17 7  | 21 0  | 20 42 | 21 33 | 0 16 | 5 23 |
| W 8  | 22 18 | 19 32 | 3 16 | 18 51 | 1 52 | 21 30 | 1 16 | 17 38 | 0 41 | 1 55 | 1 15 | 19 8  | 0 39 | 0 24 | 0 42 | 14 31 | 0 24 | 7 20 | 17 7  | 20 59 | 20 41 | 21 32 | 0 16 | 5 23 |
| T 9  | 22 9  | 16 23 | 4 11 | 18 44 | 2 10 | 21 40 | 1 13 | 17 48 | 0 41 | 1 51 | 1 15 | 19 6  | 0 39 | 0 25 | 0 42 | 14 30 | 0 24 | 7 20 | 17 7  | 20 58 | 20 40 | 21 32 | 0 16 | 5 24 |
| F 10 | 22 1  | 12 15 | 4 49 | 18 39 | 2 27 | 21 49 | 1 11 | 17 58 | 0 40 | 1 47 | 1 15 | 19 5  | 0 39 | 0 26 | 0 42 | 14 30 | 0 24 | 7 20 | 17 6  | 20 57 | 20 40 | 21 32 | 0 16 | 5 24 |
| S 11 | 21 52 | 7 31  | 5 7  | 18 37 | 2 43 | 21 57 | 1 8  | 18 8  | 0 40 | 1 44 | 1 14 | 19 3  | 0 39 | 0 26 | 0 42 | 14 29 | 0 24 | 7 19 | 17 6  | 20 55 | 20 39 | 21 32 | 0 16 | 5 24 |
| S 12 | 21 42 | 2 32  | 5 6  | 18 36 | 2 56 | 22 5  | 1 6  | 18 18 | 0 39 | 1 40 | 1 14 | 19 1  | 0 40 | 0 27 | 0 42 | 14 29 | 0 24 | 7 19 | 17 6  | 20 54 | 20 38 | 21 32 | 0 16 | 5 25 |
| M13  | 21 32 | 2n25  | 4 47 | 18 38 | 3 8  | 22 12 | 1 3  | 18 28 | 0 39 | 1 36 | 1 14 | 18 59 | 0 40 | 0 28 | 0 42 | 14 28 | 0 24 | 7 18 | 17 5  | 20 53 | 20 38 | 21 31 | 0 16 | 5 25 |
| T 14 | 21 22 | 7 5   | 4 15 | 18 41 | 3 17 | 22 18 | 1 0  | 18 38 | 0 38 | 1 32 | 1 14 | 18 58 | 0 40 | 0 28 | 0 42 | 14 27 | 0 24 | 7 18 | 17 5  | 20 52 | 20 37 | 21 31 | 0 16 | 5 25 |
| W15  | 21 11 | 11 18 | 3 31 | 18 45 | 3 23 | 22 24 | 0 58 | 18 47 | 0 37 | 1 27 | 1 14 | 18 56 | 0 40 | 0 29 | 0 42 | 14 27 | 0 24 | 7 18 | 17 4  | 20 52 | 20 37 | 21 31 | 0 15 | 5 25 |
| T 16 | 21 0  | 14 56 | 2 38 | 18 51 | 3 27 | 22 29 | 0 55 | 18 56 | 0 37 | 1 23 | 1 13 | 18 54 | 0 40 | 0 30 | 0 42 | 14 26 | 0 24 | 7 17 | 17 4  | 20 52 | 20 36 | 21 31 | 0 15 | 5 26 |
| F 17 | 20 49 | 17 53 | 1 39 | 18 57 | 3 28 | 22 34 | 0 52 | 19 6  | 0 36 | 1 19 | 1 13 | 18 52 | 0 40 | 0 30 | 0 42 | 14 25 | 0 24 | 7 17 | 17 4  | 20 52 | 20 35 | 21 30 | 0 14 | 5 26 |
| S 18 | 20 37 | 20 2  | 0 37 | 19 5  | 3 28 | 22 38 | 0 49 | 19 15 | 0 36 | 1 15 | 1 13 | 18 50 | 0 40 | 0 31 | 0 42 | 14 25 | 0 24 | 7 16 | 17 3  | 20 53 | 20 35 | 21 30 | 0 14 | 5 26 |
| S 19 | 20 24 | 21 18 | 0s27 | 19 13 | 3 25 | 22 41 | 0 47 | 19 24 | 0 35 | 1 10 | 1 13 | 18 49 | 0 40 | 0 32 | 0 42 | 14 24 | 0 24 | 7 16 | 17 3  | 20 53 | 20 34 | 21 30 | 0 14 | 5 27 |
| M20  | 20 12 | 21 38 | 1 29 | 19 21 | 3 20 | 22 43 | 0 44 | 19 33 | 0 34 | 1 6  | 1 13 | 18 47 | 0 40 | 0 33 | 0 42 | 14 23 | 0 24 | 7 15 | 17 3  | 20 52 | 20 33 | 21 29 | 0 13 | 5 27 |
| T 21 | 19 59 | 20 59 | 2 27 | 19 31 | 3 14 | 22 45 | 0 41 | 19 41 | 0 34 | 1 2  | 1 12 | 18 45 | 0 40 | 0 34 | 0 42 | 14 22 | 0 24 | 7 15 | 17 2  | 20 51 | 20 33 | 21 29 | 0 12 | 5 27 |
| W22  | 19 45 | 19 24 | 3 19 | 19 40 | 3 7  | 22 46 | 0 38 | 19 50 | 0 33 | 0 57 | 1 12 | 18 43 | 0 40 | 0 34 | 0 42 | 14 22 | 0 24 | 7 14 | 17 2  | 20 50 | 20 32 | 21 29 | 0 12 | 5 27 |
| T 23 | 19 31 | 16 56 | 4 3  | 19 49 | 2 59 | 22 47 | 0 35 | 19 58 | 0 33 | 0 53 | 1 12 | 18 41 | 0 40 | 0 35 | 0 42 | 14 21 | 0 24 | 7 14 | 17 2  | 20 48 | 20 31 | 21 29 | 0 11 | 5 28 |
| F 24 | 19 17 | 13 42 | 4 37 | 19 59 | 2 49 | 22 46 | 0 33 | 20 6  | 0 32 | 0 48 | 1 12 | 18 40 | 0 40 | 0 36 | 0 42 | 14 20 | 0 24 | 7 14 | 17 1  | 20 46 | 20 31 | 21 28 | 0 10 | 5 28 |
| S 25 | 19 3  | 9 49  | 4 57 | 20 8  | 2 40 | 22 45 | 0 30 | 20 15 | 0 31 | 0 44 | 1 12 | 18 38 | 0 40 | 0 37 | 0 42 | 14 20 | 0 24 | 7 13 | 17 1  | 20 44 | 20 30 | 21 28 | 0 10 | 5 28 |
| S 26 | 18 48 | 5 28  | 5 3  | 20 17 | 2 30 | 22 44 | 0 27 | 20 23 | 0 31 | 0 39 | 1 12 | 18 36 | 0 40 | 0 38 | 0 42 | 14 19 | 0 24 | 7 13 | 17 0  | 20 42 | 20 30 | 21 28 | 0 9  | 5 28 |
| M27  | 18 33 | 0 48  | 4 54 | 20 26 | 2 19 | 22 41 | 0 24 | 20 30 | 0 30 | 0 35 | 1 11 | 18 34 | 0 40 | 0 39 | 0 42 | 14 18 | 0 24 | 7 12 | 17 0  | 20 40 | 20 29 | 21 27 | 0 8  | 5 29 |
| T 28 | 18 17 | 3s58  | 4 30 | 20 34 | 2 8  | 22 38 | 0 21 | 20 38 | 0 29 | 0 30 | 1 11 | 18 32 | 0 40 | 0 40 | 0 42 | 14 18 | 0 24 | 7 12 | 17 0  | 20 38 | 20 28 | 21 27 | 0 7  | 5 29 |
| W29  | 18 1  | 8 37  | 3 51 | 20 41 | 1 57 | 22 35 | 0 19 | 20 46 | 0 29 | 0 25 | 1 11 | 18 30 | 0 41 | 0 41 | 0 42 | 14 17 | 0 24 | 7 11 | 16 59 | 20 37 | 20 28 | 21 27 | 0 6  | 5 29 |
| T 30 | 17 45 | 12 56 | 2 58 | 20 48 | 1 46 | 22 30 | 0 16 | 20 53 | 0 28 | 0 21 | 1 11 | 18 29 | 0 41 | 0 42 | 0 42 | 14 16 | 0 24 | 7 11 | 16 59 | 20 36 | 20 27 | 21 26 | 0 5  | 5 29 |
| F 31 | 17s28 | 16s39 | 1s55 | 20s54 | 1n35 | 22s25 | 0n13 | 21s 0 | 0n27 | 0s16 | 1s11 | 18s27 | 0s41 | 0n43 | 0s42 | 14s15 | 0s24 | 7s10 | 16s59 | 20s36 | 20s26 | 21n26 | 0s 4 | 5s29 |

# ASTRODIENST EPHEMERIS for the year 1845

## geocentric

FEBRUARY 1845

00:00 UT

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

| Day  | ☉     | ☾     |      | ♂     |      | ♀     |      | ♂     |      | ♂    |      | ♂     |      | ♂    |      | ♂     |      | ♂    |       | ♂     |       | ♂     |      | ♂    |     |
|------|-------|-------|------|-------|------|-------|------|-------|------|------|------|-------|------|------|------|-------|------|------|-------|-------|-------|-------|------|------|-----|
|      | decl  | decl  | lat  | decl  | lat  | decl  | lat  | decl  | lat  | decl | lat  | decl  | lat  | decl | lat  | decl  | lat  | decl | lat   | decl  | lat   | decl  | lat  | decl | lat |
| S 1  | 17s11 | 19s29 | 0s43 | 21s 0 | 1n24 | 22s19 | 0n10 | 21s 7 | 0n27 | 0s11 | 1s11 | 18s25 | 0s41 | 0n44 | 0s42 | 14s15 | 0s24 | 7s10 | 16s58 | 20s36 | 20s26 | 21n26 | 0s 3 | 5s29 |     |
| S 2  | 16 54 | 21 9  | 0n32 | 21 4  | 1 14 | 22 13 | 0 7  | 21 14 | 0 26 | 0 6  | 1 10 | 18 23 | 0 41 | 0 45 | 0 42 | 14 14 | 0 24 | 7 9  | 16 58 | 20 36 | 20 25 | 21 25 | 0 2  | 5 30 |     |
| M 3  | 16 37 | 21 29 | 1 46 | 21 8  | 1 3  | 22 6  | 0 4  | 21 21 | 0 25 | 0 1  | 1 10 | 18 21 | 0 41 | 0 46 | 0 42 | 14 13 | 0 24 | 7 8  | 16 58 | 20 36 | 20 24 | 21 25 | 0 0  | 5 30 |     |
| T 4  | 16 19 | 20 21 | 2 55 | 21 10 | 0 52 | 21 58 | 0 2  | 21 27 | 0 25 | 0n 4 | 1 10 | 18 19 | 0 41 | 0 47 | 0 42 | 14 12 | 0 24 | 7 8  | 16 57 | 20 35 | 20 24 | 21 25 | 0n 1 | 5 30 |     |
| W 5  | 16 1  | 17 52 | 3 52 | 21 12 | 0 42 | 21 50 | 0s 1 | 21 34 | 0 24 | 0 9  | 1 10 | 18 17 | 0 41 | 0 48 | 0 42 | 14 12 | 0 24 | 7 7  | 16 57 | 20 34 | 20 23 | 21 24 | 0 2  | 5 30 |     |
| T 6  | 15 43 | 14 13 | 4 33 | 21 13 | 0 32 | 21 41 | 0 4  | 21 40 | 0 23 | 0 14 | 1 10 | 18 15 | 0 41 | 0 49 | 0 41 | 14 11 | 0 24 | 7 7  | 16 57 | 20 32 | 20 22 | 21 24 | 0 3  | 5 30 |     |
| F 7  | 15 24 | 9 46  | 4 56 | 21 12 | 0 22 | 21 31 | 0 7  | 21 46 | 0 22 | 0 19 | 1 10 | 18 14 | 0 41 | 0 50 | 0 41 | 14 10 | 0 24 | 7 6  | 16 56 | 20 29 | 20 22 | 21 24 | 0 5  | 5 30 |     |
| S 8  | 15 5  | 4 51  | 5 0  | 21 10 | 0 13 | 21 20 | 0 9  | 21 52 | 0 22 | 0 24 | 1 9  | 18 12 | 0 41 | 0 51 | 0 41 | 14 9  | 0 24 | 7 6  | 16 56 | 20 27 | 20 21 | 21 23 | 0 6  | 5 30 |     |
| S 9  | 14 46 | 0n11  | 4 46 | 21 8  | 0 3  | 21 9  | 0 12 | 21 58 | 0 21 | 0 29 | 1 9  | 18 10 | 0 41 | 0 52 | 0 41 | 14 9  | 0 24 | 7 5  | 16 56 | 20 25 | 20 20 | 21 23 | 0 8  | 5 30 |     |
| M10  | 14 27 | 5 4   | 4 16 | 21 4  | 0s 6 | 20 58 | 0 15 | 22 4  | 0 20 | 0 34 | 1 9  | 18 8  | 0 41 | 0 53 | 0 41 | 14 8  | 0 24 | 7 5  | 16 55 | 20 23 | 20 20 | 21 23 | 0 9  | 5 30 |     |
| T 11 | 14 8  | 9 34  | 3 34 | 20 59 | 0 15 | 20 46 | 0 17 | 22 9  | 0 19 | 0 39 | 1 9  | 18 6  | 0 42 | 0 54 | 0 41 | 14 7  | 0 24 | 7 4  | 16 55 | 20 21 | 20 19 | 21 22 | 0 10 | 5 30 |     |
| W12  | 13 48 | 13 30 | 2 42 | 20 52 | 0 23 | 20 33 | 0 20 | 22 14 | 0 18 | 0 44 | 1 9  | 18 4  | 0 42 | 0 55 | 0 41 | 14 7  | 0 24 | 7 3  | 16 55 | 20 20 | 20 18 | 21 22 | 0 12 | 5 30 |     |
| T 13 | 13 28 | 16 45 | 1 43 | 20 45 | 0 32 | 20 19 | 0 22 | 22 19 | 0 18 | 0 49 | 1 9  | 18 2  | 0 42 | 0 56 | 0 41 | 14 6  | 0 24 | 7 3  | 16 54 | 20 20 | 20 18 | 21 21 | 0 14 | 5 30 |     |
| F 14 | 13 8  | 19 11 | 0 41 | 20 36 | 0 40 | 20 5  | 0 25 | 22 24 | 0 17 | 0 54 | 1 9  | 18 0  | 0 42 | 0 57 | 0 41 | 14 5  | 0 24 | 7 2  | 16 54 | 20 20 | 20 17 | 21 21 | 0 15 | 5 30 |     |
| S 15 | 12 47 | 20 46 | 0s21 | 20 26 | 0 48 | 19 50 | 0 27 | 22 29 | 0 16 | 0 59 | 1 8  | 17 59 | 0 42 | 0 59 | 0 41 | 14 4  | 0 24 | 7 2  | 16 54 | 20 20 | 20 17 | 21 21 | 0 17 | 5 30 |     |
| S 16 | 12 26 | 21 25 | 1 23 | 20 15 | 0 55 | 19 35 | 0 30 | 22 34 | 0 15 | 1 5  | 1 8  | 17 57 | 0 42 | 1 0  | 0 41 | 14 4  | 0 24 | 7 1  | 16 54 | 20 20 | 20 16 | 21 20 | 0 19 | 5 30 |     |
| M17  | 12 6  | 21 6  | 2 21 | 20 2  | 1 2  | 19 19 | 0 32 | 22 38 | 0 14 | 1 10 | 1 8  | 17 55 | 0 42 | 1 1  | 0 41 | 14 3  | 0 24 | 7 1  | 16 53 | 20 19 | 20 15 | 21 20 | 0 20 | 5 30 |     |
| T 18 | 11 45 | 19 51 | 3 13 | 19 48 | 1 9  | 19 3  | 0 35 | 22 43 | 0 13 | 1 15 | 1 8  | 17 53 | 0 42 | 1 2  | 0 41 | 14 2  | 0 24 | 7 0  | 16 53 | 20 18 | 20 15 | 21 19 | 0 22 | 5 30 |     |
| W19  | 11 23 | 17 42 | 3 57 | 19 33 | 1 15 | 18 46 | 0 37 | 22 47 | 0 12 | 1 21 | 1 8  | 17 51 | 0 42 | 1 3  | 0 41 | 14 1  | 0 24 | 6 59 | 16 53 | 20 16 | 20 14 | 21 19 | 0 24 | 5 30 |     |
| T 20 | 11 2  | 14 44 | 4 31 | 19 17 | 1 22 | 18 28 | 0 39 | 22 51 | 0 11 | 1 26 | 1 8  | 17 49 | 0 42 | 1 5  | 0 41 | 14 1  | 0 24 | 6 59 | 16 52 | 20 14 | 20 13 | 21 19 | 0 26 | 5 30 |     |
| F 21 | 10 40 | 11 3  | 4 53 | 18 59 | 1 27 | 18 10 | 0 42 | 22 55 | 0 11 | 1 31 | 1 8  | 17 47 | 0 42 | 1 6  | 0 41 | 14 0  | 0 24 | 6 58 | 16 52 | 20 12 | 20 13 | 21 18 | 0 27 | 5 30 |     |
| S 22 | 10 19 | 6 49  | 5 0  | 18 40 | 1 33 | 17 52 | 0 44 | 22 58 | 0 10 | 1 37 | 1 8  | 17 46 | 0 42 | 1 7  | 0 41 | 13 59 | 0 24 | 6 58 | 16 52 | 20 9  | 20 12 | 21 18 | 0 29 | 5 30 |     |
| S 23 | 9 57  | 2 13  | 4 52 | 18 20 | 1 38 | 17 33 | 0 46 | 23 2  | 0 9  | 1 42 | 1 8  | 17 44 | 0 43 | 1 8  | 0 41 | 13 58 | 0 24 | 6 57 | 16 52 | 20 6  | 20 11 | 21 17 | 0 31 | 5 30 |     |
| M24  | 9 35  | 2s35  | 4 29 | 17 58 | 1 43 | 17 13 | 0 48 | 23 5  | 0 8  | 1 47 | 1 7  | 17 42 | 0 43 | 1 9  | 0 41 | 13 58 | 0 24 | 6 56 | 16 51 | 20 3  | 20 10 | 21 17 | 0 33 | 5 30 |     |
| T 25 | 9 13  | 7 20  | 3 50 | 17 35 | 1 47 | 16 53 | 0 50 | 23 8  | 0 7  | 1 53 | 1 7  | 17 40 | 0 43 | 1 11 | 0 41 | 13 57 | 0 24 | 6 56 | 16 51 | 20 1  | 20 10 | 21 16 | 0 35 | 5 30 |     |
| W26  | 8 50  | 11 46 | 2 58 | 17 11 | 1 51 | 16 33 | 0 53 | 23 11 | 0 6  | 1 58 | 1 7  | 17 38 | 0 43 | 1 12 | 0 41 | 13 56 | 0 24 | 6 55 | 16 51 | 20 0  | 20 9  | 21 16 | 0 37 | 5 30 |     |
| T 27 | 8 28  | 15 38 | 1 54 | 16 45 | 1 55 | 16 12 | 0 55 | 23 14 | 0 5  | 2 4  | 1 7  | 17 36 | 0 43 | 1 13 | 0 41 | 13 55 | 0 24 | 6 55 | 16 50 | 19 59 | 20 8  | 21 15 | 0 39 | 5 29 |     |
| F 28 | 8s 5  | 18s40 | 0s44 | 16s18 | 1s59 | 15s50 | 0s57 | 23s17 | 0n 4 | 2n 9 | 1s 7 | 17s35 | 0s43 | 1n15 | 0s41 | 13s55 | 0s24 | 6s54 | 16s50 | 19s58 | 20s 8 | 21n15 | 0n41 | 5s29 |     |

Julian Day Number = 2394963.5, Delta T = 7.99 sec  
 Ecliptic obliquity = 23°27'29, Nutation = 0°00'16, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 22°34'38, Lahiri = 21°41'38

ASTRODIENST EPHEMERIS for the year 1845  
geocentric

MARCH 1845

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♊      | ♋     | ♌     | ♍      | ♎     | ♏     | ♐     | ♑     | ♒      | ♓     | ♈     | ♉     | Day  |
|------|----------|----------|-------|--------|-------|-------|--------|-------|-------|-------|-------|--------|-------|-------|-------|------|
| S 1  | 10 34 38 | 10♈18'33 | 4♌45  | 22♍49  | 20♎52 | 25♏7  | 8♐14   | 13♑15 | 4♒45  | 24♓2  | 22♐29 | 29♑6   | 29♒46 | 22♓59 | 15♑22 | S 1  |
| S 2  | 10 38 34 | 11°18'42 | 18°49 | 24°25  | 22° 6 | 25°45 | 8°28   | 13°21 | 4°48  | 24° 4 | 22°30 | 29♒6   | 29°43 | 23° 6 | 15♑17 | S 2  |
| M 3  | 10 42 31 | 12°18'49 | 3♌0   | 26° 2  | 23°21 | 26°22 | 8°41   | 13°28 | 4°52  | 24° 6 | 22°31 | 29° 4  | 29°40 | 23°13 | 15°12 | M 3  |
| T 4  | 10 46 27 | 13°18'55 | 17°14 | 27°40  | 24°35 | 27° 0 | 8°55   | 13°35 | 4°55  | 24° 9 | 22°32 | 29° 1  | 29°37 | 23°19 | 15° 8 | T 4  |
| W 5  | 10 50 24 | 14°18'59 | 1♎31  | 29°20  | 25°50 | 27°38 | 9° 9   | 13°41 | 4°58  | 24°11 | 22°34 | 28°54  | 29°34 | 23°26 | 15° 3 | W 5  |
| T 6  | 10 54 21 | 15°19'02 | 15°46 | 1♈0    | 27° 4 | 28°15 | 9°23   | 13°48 | 5° 1  | 24°13 | 22°35 | 28°45  | 29°31 | 23°33 | 14°58 | T 6  |
| F 7  | 10 58 17 | 16°19'02 | 29°53 | 2°42   | 28°19 | 28°53 | 9°37   | 13°54 | 5° 5  | 24°15 | 22°36 | 28°34  | 29°27 | 23°39 | 14°53 | F 7  |
| S 8  | 11 2 14  | 17°19'01 | 13♈49 | 4°24   | 29°33 | 29°30 | 9°51   | 14° 0 | 5° 8  | 24°17 | 22°37 | 28°22  | 29°24 | 23°46 | 14°48 | S 8  |
| S 9  | 11 6 10  | 18°18'58 | 27°27 | 6° 8   | 0♈48  | 0♌8   | 10° 5  | 14° 7 | 5°11  | 24°19 | 22°38 | 28°11  | 29°21 | 23°53 | 14°44 | S 9  |
| M10  | 11 10 7  | 19°18'53 | 10♐46 | 7°53   | 2° 2  | 0°45  | 10°19  | 14°13 | 5°14  | 24°21 | 22°39 | 28° 1  | 29°18 | 23°59 | 14°39 | M10  |
| T 11 | 11 14 3  | 20°18'46 | 23°44 | 9°39   | 3°17  | 1°23  | 10°33  | 14°19 | 5°18  | 24°24 | 22°41 | 27°53  | 29°15 | 24° 6 | 14°34 | T 11 |
| W12  | 11 18 0  | 21°18'37 | 6♌21  | 11°27  | 4°31  | 2° 0  | 10°47  | 14°26 | 5°21  | 24°26 | 22°42 | 27°49  | 29°12 | 24°13 | 14°29 | W12  |
| T 13 | 11 21 56 | 22°18'25 | 18°40 | 13°15  | 5°46  | 2°37  | 11° 1  | 14°32 | 5°24  | 24°28 | 22°43 | 27°47  | 29° 8 | 24°19 | 14°24 | T 13 |
| F 14 | 11 25 53 | 23°18'12 | 0♐44  | 15° 5  | 7° 0  | 3°15  | 11°15  | 14°38 | 5°28  | 24°30 | 22°44 | 27°D46 | 29° 5 | 24°26 | 14°20 | F 14 |
| S 15 | 11 29 50 | 24°17'56 | 12°38 | 16°56  | 8°15  | 3°52  | 11°29  | 14°44 | 5°31  | 24°32 | 22°46 | 27°47  | 29° 2 | 24°33 | 14°15 | S 15 |
| S 16 | 11 33 46 | 25°17'38 | 24°27 | 18°48  | 9°29  | 4°29  | 11°44  | 14°50 | 5°35  | 24°34 | 22°47 | 27°R47 | 28°59 | 24°39 | 14°10 | S 16 |
| M17  | 11 37 43 | 26°17'18 | 6♌16  | 20°41  | 10°44 | 5° 6  | 11°58  | 14°56 | 5°38  | 24°36 | 22°48 | 27°47  | 28°56 | 24°46 | 14° 6 | M17  |
| T 18 | 11 41 39 | 27°16'55 | 18°12 | 22°36  | 11°58 | 5°44  | 12°12  | 15° 2 | 5°41  | 24°38 | 22°49 | 27°44  | 28°52 | 24°53 | 14° 1 | T 18 |
| W19  | 11 45 36 | 28°16'30 | 0♐18  | 24°31  | 13°13 | 6°21  | 12°26  | 15° 8 | 5°45  | 24°40 | 22°51 | 27°39  | 28°49 | 24°59 | 13°56 | W19  |
| T 20 | 11 49 32 | 29°16'03 | 12°39 | 26°28  | 14°27 | 6°58  | 12°41  | 15°14 | 5°48  | 24°42 | 22°52 | 27°32  | 28°46 | 25° 6 | 13°52 | T 20 |
| F 21 | 11 53 29 | 0♐15'34  | 25°19 | 28°26  | 15°41 | 7°35  | 12°55  | 15°20 | 5°52  | 24°44 | 22°53 | 27°24  | 28°43 | 25°13 | 13°47 | F 21 |
| S 22 | 11 57 25 | 1°15'02  | 8♐17  | 0♐25   | 16°56 | 8°12  | 13° 9  | 15°25 | 5°55  | 24°46 | 22°55 | 27°14  | 28°40 | 25°19 | 13°43 | S 22 |
| S 23 | 12 1 22  | 2°14'28  | 21°35 | 2°25   | 18°10 | 8°49  | 13°24  | 15°31 | 5°58  | 24°48 | 22°56 | 27° 4  | 28°37 | 25°26 | 13°39 | S 23 |
| M24  | 12 5 18  | 3°13'52  | 5♌11  | 4°26   | 19°24 | 9°26  | 13°38  | 15°37 | 6° 2  | 24°49 | 22°57 | 26°55  | 28°33 | 25°33 | 13°34 | M24  |
| T 25 | 12 9 15  | 4°13'14  | 19° 2 | 6°27   | 20°39 | 10° 2 | 13°52  | 15°42 | 6° 5  | 24°51 | 22°59 | 26°48  | 28°30 | 25°39 | 13°30 | T 25 |
| W26  | 12 13 12 | 5°12'34  | 3♐4   | 8°29   | 21°53 | 10°39 | 14° 7  | 15°48 | 6° 9  | 24°53 | 23° 0 | 26°43  | 28°27 | 25°46 | 13°26 | W26  |
| T 27 | 12 17 8  | 6°11'53  | 17°13 | 10°32  | 23° 8 | 11°16 | 14°21  | 15°53 | 6°12  | 24°55 | 23° 1 | 26°41  | 28°24 | 25°53 | 13°21 | T 27 |
| F 28 | 12 21 5  | 7°11'09  | 1♌25  | 12°35  | 24°22 | 11°53 | 14°36  | 15°59 | 6°16  | 24°57 | 23° 3 | 26°D41 | 28°21 | 25°59 | 13°17 | F 28 |
| S 29 | 12 25 1  | 8°10'24  | 15°38 | 14°38  | 25°36 | 12°29 | 14°50  | 16° 4 | 6°19  | 24°59 | 23° 4 | 26°42  | 28°17 | 26° 6 | 13°13 | S 29 |
| S 30 | 12 28 58 | 9° 9'37  | 29°50 | 16°41  | 26°51 | 13° 6 | 15° 5  | 16° 9 | 6°22  | 25° 0 | 23° 5 | 26°43  | 28°14 | 26°13 | 13° 9 | S 30 |
| M31  | 12 32 54 | 10♐8'48  | 13♌58 | 18°Y43 | 28♈5  | 13♌42 | 15°Y19 | 16°14 | 6°Y26 | 25°2  | 23°Y7 | 26°R43 | 28♐11 | 26♐19 | 13♐5  | M31  |

| Day  | ☉    | ☽     |      | ♊     | ♋    | ♌     | ♍    | ♎     | ♏    | ♐    | ♑     | ♒     | ♓    | ♈    | ♉    | ♊     | ♋    | ♌    | ♍     | ♎     | ♏     | ♐     | ♑    | ♒    | ♓   |
|------|------|-------|------|-------|------|-------|------|-------|------|------|-------|-------|------|------|------|-------|------|------|-------|-------|-------|-------|------|------|-----|
|      | decl | decl  | lat  | decl  | lat  | decl  | lat  | decl  | lat  | decl | lat   | decl  | lat  | decl | lat  | decl  | lat  | decl | lat   | decl  | lat   | decl  | lat  | decl | lat |
| S 1  | 7s43 | 20s37 | 0n30 | 15s50 | 2s 2 | 15s29 | 0s58 | 23s19 | 0n 3 | 2n15 | 1 s 7 | 17s33 | 0s43 | 1n16 | 0s41 | 13s54 | 0s24 | 6s53 | 16s50 | 19s58 | 20s 7 | 21n15 | 0n43 | 5s29 |     |
| S 2  | 7 20 | 21 17 | 1 43 | 15 21 | 2 4  | 15 6  | 1 0  | 23 21 | 0 2  | 2 20 | 1 7   | 17 31 | 0 43 | 1 17 | 0 41 | 13 53 | 0 24 | 6 53 | 16 50 | 19 58 | 20 6  | 21 14 | 0 45 | 5 29 |     |
| M 3  | 6 57 | 20 36 | 2 49 | 14 50 | 2 6  | 14 43 | 1 2  | 23 24 | 0 1  | 2 26 | 1 7   | 17 29 | 0 43 | 1 18 | 0 41 | 13 53 | 0 24 | 6 52 | 16 50 | 19 58 | 20 6  | 21 14 | 0 47 | 5 29 |     |
| T 4  | 6 34 | 18 37 | 3 46 | 14 18 | 2 8  | 14 20 | 1 4  | 23 26 | 0s 0 | 2 31 | 1 7   | 17 27 | 0 43 | 1 20 | 0 41 | 13 52 | 0 24 | 6 51 | 16 49 | 19 57 | 20 5  | 21 13 | 0 49 | 5 28 |     |
| W 5  | 6 11 | 15 28 | 4 28 | 13 44 | 2 10 | 13 57 | 1 6  | 23 27 | 0 1  | 2 37 | 1 7   | 17 26 | 0 44 | 1 21 | 0 41 | 13 51 | 0 24 | 6 51 | 16 49 | 19 56 | 20 4  | 21 13 | 0 51 | 5 28 |     |
| T 6  | 5 47 | 11 26 | 4 54 | 13 10 | 2 11 | 13 33 | 1 7  | 23 29 | 0 2  | 2 42 | 1 6   | 17 24 | 0 44 | 1 22 | 0 41 | 13 50 | 0 24 | 6 50 | 16 49 | 19 54 | 20 4  | 21 12 | 0 53 | 5 28 |     |
| F 7  | 5 24 | 6 49  | 5 2  | 12 34 | 2 11 | 13 9  | 1 9  | 23 31 | 0 3  | 2 48 | 1 6   | 17 22 | 0 44 | 1 24 | 0 41 | 13 50 | 0 24 | 6 50 | 16 49 | 19 51 | 20 3  | 21 12 | 0 55 | 5 28 |     |
| S 8  | 5 1  | 1 54  | 4 51 | 11 56 | 2 11 | 12 44 | 1 10 | 23 32 | 0 4  | 2 53 | 1 6   | 17 20 | 0 44 | 1 25 | 0 41 | 13 49 | 0 24 | 6 49 | 16 48 | 19 49 | 20 2  | 21 11 | 0 57 | 5 27 |     |
| S 9  | 4 37 | 3n 1  | 4 24 | 11 18 | 2 11 | 12 19 | 1 12 | 23 33 | 0 6  | 2 59 | 1 6   | 17 19 | 0 44 | 1 26 | 0 41 | 13 48 | 0 24 | 6 48 | 16 48 | 19 46 | 20 2  | 21 11 | 0 59 | 5 27 |     |
| M10  | 4 14 | 7 41  | 3 43 | 10 38 | 2 10 | 11 54 | 1 13 | 23 34 | 0 7  | 3 4  | 1 6   | 17 17 | 0 44 | 1 28 | 0 41 | 13 48 | 0 24 | 6 48 | 16 48 | 19 44 | 20 1  | 21 10 | 1 1  | 5 27 |     |
| T 11 | 3 50 | 11 52 | 2 51 | 9 57  | 2 9  | 11 28 | 1 15 | 23 35 | 0 8  | 3 10 | 1 6   | 17 15 | 0 44 | 1 29 | 0 41 | 13 47 | 0 24 | 6 47 | 16 48 | 19 42 | 20 0  | 21 10 | 1 4  | 5 26 |     |
| W12  | 3 27 | 15 24 | 1 52 | 9 14  | 2 7  | 11 2  | 1 16 | 23 36 | 0 9  | 3 16 | 1 6   | 17 13 | 0 44 | 1 30 | 0 41 | 13 46 | 0 24 | 6 47 | 16 48 | 19 41 | 20 0  | 21 9  | 1 6  | 5 26 |     |
| T 13 | 3 3  | 18 10 | 0 48 | 8 31  | 2 5  | 10 36 | 1 17 | 23 36 | 0 10 | 3 21 | 1 6   | 17 12 | 0 44 | 1 32 | 0 41 | 13 46 | 0 24 | 6 46 | 16 47 | 19 41 | 19 59 | 21 9  | 1 8  | 5 26 |     |
| F 14 | 2 40 | 20 4  | 0s16 | 7 46  | 2 3  | 10 9  | 1 18 | 23 37 | 0 11 | 3 27 | 1 6   | 17 10 | 0 45 | 1 33 | 0 41 | 13 45 | 0 24 | 6 45 | 16 47 | 19 41 | 19 58 | 21 8  | 1 10 | 5 25 |     |
| S 15 | 2 16 | 21 2  | 1 19 | 7 0   | 1 59 | 9 43  | 1 19 | 23 37 | 0 13 | 3 32 | 1 6   | 17 8  | 0 45 | 1 34 | 0 41 | 13 44 | 0 24 | 6 45 | 16 47 | 19 41 | 19 58 | 21 8  | 1 12 | 5 25 |     |
| S 16 | 1 52 | 21 3  | 2 18 | 6 13  | 1 56 | 9 16  | 1 20 | 23 37 | 0 14 | 3 38 | 1 6   | 17 7  | 0 45 | 1 36 | 0 41 | 13 44 | 0 24 | 6 44 | 16 47 | 19 41 | 19 57 | 21 7  | 1 14 | 5 25 |     |
| M17  | 1 29 | 20 8  | 3 11 | 5 24  | 1 52 | 8 48  | 1 21 | 23 37 | 0 15 | 3 44 | 1 6   | 17 5  | 0 45 | 1 37 | 0 41 | 13 43 | 0 24 | 6 44 | 16 47 | 19 41 | 19 56 | 21 7  | 1 16 | 5 24 |     |
| T 18 | 1 5  | 18 19 | 3 56 | 4 35  | 1 47 | 8 21  | 1 22 | 23 36 | 0 16 | 3 49 | 1 6   | 17 3  | 0 45 | 1 38 | 0 41 | 13 42 | 0 24 | 6 43 | 16 47 | 19 40 | 19 55 | 21 6  | 1 19 | 5 24 |     |
| W19  | 0 41 | 15 41 | 4 32 | 3 44  | 1 42 | 7 53  | 1 23 | 23 36 | 0 18 | 3 55 | 1 6   | 17 2  | 0 45 | 1 40 | 0 41 | 13 42 | 0 24 | 6 42 | 16 46 | 19 39 | 19 55 | 21 5  | 1 21 | 5 23 |     |
| T 20 | 0 18 | 12 18 | 4 55 | 2 52  | 1 36 | 7 25  | 1 24 | 23 35 | 0 19 | 4 0  | 1 5   | 17 0  | 0 45 | 1 41 | 0 41 | 13 41 | 0 24 | 6 42 | 16 46 | 19 38 | 19 54 | 21 5  | 1 23 | 5 23 |     |
| F 21 | 0n 6 | 8 18  | 5 5  | 1 59  | 1 29 | 6 57  | 1 25 | 23 35 | 0 20 | 4 6  | 1 5   | 16 59 | 0 45 | 1 42 | 0 41 | 13 40 | 0 24 | 6 41 | 16 46 | 19 36 | 19 53 | 21 4  | 1 25 | 5 22 |     |
| S 22 | 0 30 | 3 50  | 5 0  | 1 6   | 1 23 | 6 28  | 1 25 | 23 34 | 0 21 | 4 12 | 1 5   | 16 57 | 0 45 | 1 44 | 0 41 | 13 40 | 0 24 | 6 41 | 16 46 | 19 33 | 19 53 | 21 4  | 1 27 | 5 22 |     |
| S 23 | 0 54 | 0s55  | 4 38 | 0 11  | 1 15 | 6 0   | 1 26 | 23 33 | 0 23 | 4 17 | 1 5   | 16 55 | 0 46 | 1 45 | 0 41 | 13 39 | 0 24 | 6 40 | 16 46 | 19 31 | 19 52 | 21 3  | 1 29 | 5 21 |     |
| M24  | 1 17 | 5 44  | 4 1  | 0n44  | 1 7  | 5 31  | 1 26 | 23 31 | 0 24 | 4 23 | 1 5   | 16 54 | 0 46 | 1 46 | 0 41 | 13 39 | 0 24 | 6 39 | 16 46 | 19 29 | 19 51 | 21 3  | 1 31 | 5 21 |     |
| T 25 | 1 41 | 10 21 | 3 8  | 1 40  | 0 59 | 5 2   | 1 27 | 23 30 | 0 26 | 4 29 | 1 5   | 16 52 | 0 46 | 1 48 | 0 41 | 13 38 | 0 25 | 6 39 | 16 46 | 19 27 | 19 51 | 21 2  | 1 33 | 5 20 |     |
| W26  | 2 4  | 14 29 | 2 4  | 2 36  | 0 50 | 4 33  | 1 27 | 23 29 | 0 27 | 4 34 | 1 5   | 16 51 | 0 46 | 1 49 | 0 41 | 13 37 | 0 25 | 6 38 | 16 45 | 19 26 | 19 50 | 21 2  | 1 36 | 5 20 |     |
| T 27 | 2 28 | 17 48 | 0 51 | 3 33  | 0 41 | 4 4   | 1 28 | 23 27 | 0 28 | 4 40 | 1 5   | 16 49 | 0 46 | 1 51 | 0 41 | 13 37 | 0 25 | 6 38 | 16 45 | 19 26 | 19 49 | 21 1  | 1 38 | 5 19 |     |
| F 28 | 2 51 | 20 3  | 0n26 | 4 30  | 0 31 | 3 35  | 1 28 | 23 25 | 0 30 | 4 45 | 1 5   | 16 48 | 0 46 | 1 52 | 0 41 | 13 36 | 0 25 | 6 37 | 16 45 | 19 26 | 19 48 | 21 0  | 1 40 | 5 19 |     |
| S 29 | 3 15 | 21 1  | 1 41 | 5 27  | 0 21 | 3 6   | 1 28 | 23 23 | 0 31 | 4 51 | 1 5   | 16 46 | 0 46 | 1 53 | 0 41 | 13 36 | 0 25 | 6 36 | 16 45 | 19 26 | 19 48 | 21 0  | 1 42 | 5 18 |     |
| S 30 | 3 38 | 20 38 | 2 49 | 6 24  | 0 10 | 2 36  | 1 28 | 23 21 | 0 33 | 4 57 | 1 5   | 16 45 | 0 47 | 1 55 | 0 41 | 13 35 | 0 25 | 6 36 | 16 45 | 19 26 | 19 47 | 20 59 | 1 44 | 5 18 |     |
| M31  | 4n 1 | 18s57 | 3n47 | 7n21  | 0n 1 | 2s 7  | 1s28 | 23s19 | 0s34 | 5n 2 | 1 s 5 | 16s43 | 0s47 | 1n56 | 0s41 | 13s34 | 0s25 | 6s35 | 16s45 | 19s26 | 19s46 | 20n59 | 1n46 | 5s17 |     |

# ASTRODIENST EPHEMERIS for the year 1845

## geocentric

APRIL 1845

00:00 UT

| Day  | Sid.t    | ☉           | ☽       | ♂       | ♀       | ♂       | ♂       | ♂       | ♂      | ♂       | ♂       | ♂       | ♂       | ♂       | ♂       | Day  |
|------|----------|-------------|---------|---------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|------|
| T 1  | 12 36 51 | 11° 7' 58"  | 28° 2'  | 20° 44' | 29° 19' | 14° 19' | 15° 34' | 16° 19' | 6° 29' | 25° 44' | 23° 8'  | 26° 42' | 28° 8'  | 26° 26' | 13° 18' | T 1  |
| W 2  | 12 40 47 | 12° 7' 05"  | 11° 59' | 22° 45' | 0° 33'  | 14° 55' | 15° 48' | 16° 25' | 6° 33' | 25° 6'  | 23° 9'  | 26° 39' | 28° 5'  | 26° 32' | 12° 57' | W 2  |
| T 3  | 12 44 44 | 13° 6' 11"  | 25° 49' | 24° 43' | 1° 48'  | 15° 32' | 16° 2'  | 16° 30' | 6° 36' | 25° 7'  | 23° 11' | 26° 33' | 28° 2'  | 26° 39' | 12° 54' | T 3  |
| F 4  | 12 48 41 | 14° 5' 15"  | 9° 29'  | 26° 40' | 3° 2'   | 16° 8'  | 16° 17' | 16° 34' | 6° 40' | 25° 9'  | 23° 12' | 26° 27' | 27° 58' | 26° 46' | 12° 50' | F 4  |
| S 5  | 12 52 37 | 15° 4' 17"  | 22° 58' | 28° 35' | 4° 16'  | 16° 44' | 16° 31' | 16° 39' | 6° 43' | 25° 11' | 23° 14' | 26° 20' | 27° 55' | 26° 52' | 12° 46' | S 5  |
| S 6  | 12 56 34 | 16° 3' 17"  | 6° 12'  | 0° 27'  | 5° 31'  | 17° 20' | 16° 46' | 16° 44' | 6° 46' | 25° 12' | 23° 15' | 26° 13' | 27° 52' | 26° 59' | 12° 43' | S 6  |
| M 7  | 13 0 30  | 17° 2' 15"  | 19° 11' | 2° 16'  | 6° 45'  | 17° 56' | 17° 0'  | 16° 49' | 6° 50' | 25° 14' | 23° 16' | 26° 7'  | 27° 49' | 27° 6'  | 12° 39' | M 7  |
| T 8  | 13 4 27  | 18° 1' 12"  | 1° 54'  | 4° 2'   | 7° 59'  | 18° 32' | 17° 15' | 16° 53' | 6° 53' | 25° 15' | 23° 18' | 26° 3'  | 27° 46' | 27° 12' | 12° 36' | T 8  |
| W 9  | 13 8 23  | 19° 0' 06"  | 14° 21' | 5° 44'  | 9° 13'  | 19° 8'  | 17° 29' | 16° 58' | 6° 56' | 25° 17' | 23° 19' | 26° 0'  | 27° 43' | 27° 19' | 12° 33' | W 9  |
| T 10 | 13 12 20 | 19° 58' 58" | 26° 35' | 7° 22'  | 10° 28' | 19° 44' | 17° 44' | 17° 3'  | 7° 0'  | 25° 18' | 23° 21' | 26° 0'  | 27° 39' | 27° 26' | 12° 30' | T 10 |
| F 11 | 13 16 16 | 20° 57' 48" | 8° 36'  | 8° 56'  | 11° 42' | 20° 20' | 17° 58' | 17° 7'  | 7° 3'  | 25° 20' | 23° 22' | 26° 0'  | 27° 36' | 27° 32' | 12° 26' | F 11 |
| S 12 | 13 20 13 | 21° 56' 35" | 20° 29' | 10° 25' | 12° 56' | 20° 55' | 18° 13' | 17° 11' | 7° 7'  | 25° 21' | 23° 23' | 26° 2'  | 27° 33' | 27° 39' | 12° 23' | S 12 |
| S 13 | 13 24 10 | 22° 55' 21" | 2° 19'  | 11° 50' | 14° 10' | 21° 31' | 18° 27' | 17° 16' | 7° 10' | 25° 23' | 23° 25' | 26° 4'  | 27° 30' | 27° 46' | 12° 20' | S 13 |
| M14  | 13 28 6  | 23° 54' 04" | 14° 9'  | 13° 10' | 15° 24' | 22° 7'  | 18° 42' | 17° 20' | 7° 13' | 25° 24' | 23° 26' | 26° 5'  | 27° 27' | 27° 52' | 12° 18' | M14  |
| T 15 | 13 32 3  | 24° 52' 45" | 26° 5'  | 14° 24' | 16° 38' | 22° 42' | 18° 56' | 17° 24' | 7° 17' | 25° 26' | 23° 28' | 26° 5'  | 27° 23' | 27° 59' | 12° 15' | T 15 |
| W16  | 13 35 59 | 25° 51' 24" | 8° 11'  | 15° 34' | 17° 53' | 23° 17' | 19° 11' | 17° 28' | 7° 20' | 25° 27' | 23° 29' | 26° 5'  | 27° 20' | 28° 6'  | 12° 12' | W16  |
| T 17 | 13 39 56 | 26° 50' 00" | 20° 33' | 16° 38' | 19° 7'  | 23° 53' | 19° 25' | 17° 32' | 7° 23' | 25° 28' | 23° 30' | 26° 3'  | 27° 17' | 28° 12' | 12° 10' | T 17 |
| F 18 | 13 43 52 | 27° 48' 35" | 3° 17'  | 17° 37' | 20° 21' | 24° 28' | 19° 39' | 17° 36' | 7° 26' | 25° 30' | 23° 32' | 25° 59' | 27° 14' | 28° 19' | 12° 7'  | F 18 |
| S 19 | 13 47 49 | 28° 47' 07" | 16° 16' | 18° 30' | 21° 35' | 25° 3'  | 19° 54' | 17° 40' | 7° 30' | 25° 31' | 23° 33' | 25° 55' | 27° 11' | 28° 26' | 12° 5'  | S 19 |
| S 20 | 13 51 45 | 29° 45' 37" | 29° 43' | 19° 18' | 22° 49' | 25° 38' | 20° 8'  | 17° 43' | 7° 33' | 25° 32' | 23° 35' | 25° 51' | 27° 8'  | 28° 32' | 12° 3'  | S 20 |
| M21  | 13 55 42 | 0° 44' 05"  | 13° 32' | 20° 0'  | 24° 3'  | 26° 12' | 20° 23' | 17° 47' | 7° 36' | 25° 33' | 23° 36' | 25° 48' | 27° 4'  | 28° 39' | 12° 1'  | M21  |
| T 22 | 13 59 38 | 1° 42' 31"  | 27° 42' | 20° 36' | 25° 17' | 26° 47' | 20° 37' | 17° 50' | 7° 39' | 25° 34' | 23° 37' | 25° 45' | 27° 1'  | 28° 46' | 11° 59' | T 22 |
| W23  | 14 3 35  | 2° 40' 55"  | 12° 7'  | 21° 6'  | 26° 31' | 27° 22' | 20° 51' | 17° 54' | 7° 43' | 25° 36' | 23° 39' | 25° 43' | 26° 58' | 28° 52' | 11° 57' | W23  |
| T 24 | 14 7 32  | 3° 39' 17"  | 26° 42' | 21° 31' | 27° 45' | 27° 56' | 21° 6'  | 17° 57' | 7° 46' | 25° 37' | 23° 40' | 25° 43' | 26° 55' | 28° 59' | 11° 55' | T 24 |
| F 25 | 14 11 28 | 4° 37' 38"  | 11° 21' | 21° 50' | 28° 59' | 28° 31' | 21° 20' | 18° 1'  | 7° 49' | 25° 38' | 23° 42' | 25° 43' | 26° 52' | 29° 6'  | 11° 53' | F 25 |
| S 26 | 14 15 25 | 5° 35' 57"  | 25° 59' | 22° 3'  | 0° 13'  | 29° 5'  | 21° 34' | 18° 4'  | 7° 52' | 25° 39' | 23° 43' | 25° 44' | 26° 49' | 29° 12' | 11° 51' | S 26 |
| S 27 | 14 19 21 | 6° 34' 15"  | 10° 28' | 22° 11' | 1° 27'  | 29° 39' | 21° 48' | 18° 7'  | 7° 55' | 25° 40' | 23° 44' | 25° 46' | 26° 45' | 29° 19' | 11° 50' | S 27 |
| M28  | 14 23 18 | 7° 32' 31"  | 24° 47' | 22° 13' | 2° 41'  | 0° 13'  | 22° 2'  | 18° 10' | 7° 58' | 25° 41' | 23° 46' | 25° 47' | 26° 42' | 29° 26' | 11° 48' | M28  |
| T 29 | 14 27 14 | 8° 30' 45"  | 8° 52'  | 22° 9'  | 3° 55'  | 0° 47'  | 22° 17' | 18° 13' | 8° 1'  | 25° 42' | 23° 47' | 25° 47' | 26° 39' | 29° 32' | 11° 47' | T 29 |
| W30  | 14 31 11 | 9° 28' 58"  | 22° 43' | 22° 8'  | 5° 8'   | 1° 21'  | 22° 31' | 18° 16' | 8° 4'  | 25° 43' | 23° 48' | 25° 47' | 26° 36' | 29° 39' | 11° 46' | W30  |

| Day  | ☉     | ☽        | ♂        | ♀        | ♂        | ♂        | ♂        | ♂        | ♂        | ♂        | ♂        | ♂        | ♂        | ♂        | ♂        | Day  |
|------|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|
|      | decl  | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat |      |
| T 1  | 4n24  | 16s 8    | 4n31     | 8n18     | 0n12     | 1s37     | 1s28     | 23s17    | 0s36     | 5n 8     | 1s 5     | 16s42    | 0s47     | 1n57     | 0s41     | T 1  |
| W 2  | 4 48  | 12 25    | 4 59     | 9 13     | 0 24     | 1 8      | 1 28     | 23 14    | 0 37     | 5 13     | 1 5      | 16 41    | 0 47     | 1 59     | 0 41     | W 2  |
| T 3  | 5 11  | 8 4      | 5 9      | 10 8     | 0 35     | 0 38     | 1 28     | 23 12    | 0 39     | 5 19     | 1 5      | 16 39    | 0 47     | 2 0      | 0 41     | T 3  |
| F 4  | 5 34  | 3 22     | 5 1      | 11 1     | 0 47     | 0 8      | 1 28     | 23 9     | 0 40     | 5 25     | 1 5      | 16 38    | 0 47     | 2 1      | 0 41     | F 4  |
| S 5  | 5 56  | 1n26     | 4 37     | 11 53    | 0 58     | 0n22     | 1 28     | 23 6     | 0 42     | 5 30     | 1 5      | 16 37    | 0 47     | 2 3      | 0 41     | S 5  |
| S 6  | 6 19  | 6 6      | 3 58     | 12 43    | 1 10     | 0 51     | 1 27     | 23 3     | 0 43     | 5 36     | 1 5      | 16 35    | 0 47     | 2 4      | 0 41     | S 6  |
| M 7  | 6 42  | 10 24    | 3 7      | 13 32    | 1 21     | 1 21     | 1 27     | 23 0     | 0 45     | 5 41     | 1 5      | 16 34    | 0 48     | 2 5      | 0 41     | M 7  |
| T 8  | 7 4   | 14 8     | 2 7      | 14 18    | 1 32     | 1 51     | 1 26     | 22 57    | 0 47     | 5 47     | 1 5      | 16 33    | 0 48     | 2 7      | 0 41     | T 8  |
| W 9  | 7 27  | 17 10    | 1 3      | 15 3     | 1 42     | 2 21     | 1 26     | 22 53    | 0 48     | 5 52     | 1 5      | 16 31    | 0 48     | 2 8      | 0 41     | W 9  |
| T 10 | 7 49  | 19 21    | 0s 3     | 15 45    | 1 52     | 2 50     | 1 25     | 22 50    | 0 50     | 5 58     | 1 5      | 16 30    | 0 48     | 2 9      | 0 41     | T 10 |
| F 11 | 8 11  | 20 38    | 1 8      | 16 24    | 2 2      | 3 20     | 1 25     | 22 46    | 0 52     | 6 3      | 1 5      | 16 29    | 0 48     | 2 11     | 0 41     | F 11 |
| S 12 | 8 33  | 20 57    | 2 10     | 17 1     | 2 10     | 3 49     | 1 24     | 22 42    | 0 53     | 6 9      | 1 5      | 16 28    | 0 48     | 2 12     | 0 41     | S 12 |
| S 13 | 8 55  | 20 21    | 3 6      | 17 36    | 2 19     | 4 19     | 1 23     | 22 38    | 0 55     | 6 14     | 1 5      | 16 27    | 0 48     | 2 13     | 0 41     | S 13 |
| M14  | 9 17  | 18 50    | 3 54     | 18 7     | 2 26     | 4 48     | 1 22     | 22 34    | 0 57     | 6 20     | 1 5      | 16 25    | 0 49     | 2 15     | 0 41     | M14  |
| T 15 | 9 38  | 16 30    | 4 32     | 18 36    | 2 33     | 5 17     | 1 22     | 22 30    | 0 58     | 6 25     | 1 5      | 16 24    | 0 49     | 2 16     | 0 41     | T 15 |
| W16  | 10 0  | 13 26    | 4 59     | 19 2     | 2 39     | 5 47     | 1 21     | 22 26    | 1 0      | 6 31     | 1 5      | 16 23    | 0 49     | 2 17     | 0 41     | W16  |
| T 17 | 10 21 | 9 43     | 5 12     | 19 26    | 2 43     | 6 16     | 1 20     | 22 22    | 1 2      | 6 36     | 1 5      | 16 22    | 0 49     | 2 19     | 0 41     | T 17 |
| F 18 | 10 42 | 5 29     | 5 11     | 19 46    | 2 47     | 6 45     | 1 19     | 22 18    | 1 4      | 6 42     | 1 5      | 16 21    | 0 49     | 2 20     | 0 41     | F 18 |
| S 19 | 11 3  | 0 54     | 4 54     | 20 4     | 2 50     | 7 13     | 1 17     | 22 13    | 1 6      | 6 47     | 1 5      | 16 20    | 0 49     | 2 21     | 0 41     | S 19 |
| S 20 | 11 24 | 3s52     | 4 21     | 20 19    | 2 52     | 7 42     | 1 16     | 22 9     | 1 8      | 6 53     | 1 5      | 16 19    | 0 49     | 2 22     | 0 41     | S 20 |
| M21  | 11 44 | 8 36     | 3 32     | 20 31    | 2 53     | 8 10     | 1 15     | 22 4     | 1 10     | 6 58     | 1 5      | 16 18    | 0 50     | 2 24     | 0 41     | M21  |
| T 22 | 12 5  | 12 58    | 2 28     | 20 41    | 2 52     | 8 39     | 1 14     | 21 59    | 1 12     | 7 3      | 1 5      | 16 17    | 0 50     | 2 25     | 0 41     | T 22 |
| W23  | 12 25 | 16 40    | 1 14     | 20 47    | 2 50     | 9 7      | 1 12     | 21 54    | 1 13     | 7 9      | 1 5      | 16 16    | 0 50     | 2 26     | 0 41     | W23  |
| T 24 | 12 45 | 19 21    | 0n 5     | 20 51    | 2 47     | 9 35     | 1 11     | 21 49    | 1 15     | 7 14     | 1 5      | 16 15    | 0 50     | 2 27     | 0 41     | T 24 |
| F 25 | 13 4  | 20 45    | 1 25     | 20 52    | 2 43     | 10 2     | 1 10     | 21 44    | 1 17     | 7 19     | 1 5      | 16 14    | 0 50     | 2 29     | 0 41     | F 25 |
| S 26 | 13 24 | 20 44    | 2 39     | 20 50    | 2 38     | 10 30    | 1 8      | 21 39    | 1 19     | 7 25     | 1 5      | 16 14    | 0 50     | 2 30     | 0 41     | S 26 |
| S 27 | 13 43 | 19 21    | 3 43     | 20 46    | 2 31     | 10 57    | 1 7      | 21 34    | 1 22     | 7 30     | 1 5      | 16 13    | 0 51     | 2 31     | 0 41     | S 27 |
| M28  | 14 2  | 16 44    | 4 31     | 20 39    | 2 23     | 11 24    | 1 5      | 21 29    | 1 24     | 7 35     | 1 5      | 16 12    | 0 51     | 2 32     | 0 41     | M28  |
| T 29 | 14 21 | 13 11    | 5 3      | 20 29    | 2 14     | 11 51    | 1 3      | 21 23    | 1 26     | 7 41     | 1 5      | 16 11    | 0 51     | 2 34     | 0 41     | T 29 |
| W30  | 14n40 | 8s59     | 5n16     | 20n17    | 2n 4     | 12n17    | 1s 2     | 21s18    | 1s28     | 7n46     | 1s 5     | 16s11    | 0s51     | 2n35     | 0s41     | W30  |

Julian Day Number = 2395022.5, Delta T = 8.02 sec

Ecliptic obliquity = 23°27'30", Nutation = 0°00'15", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 22°34'46", Lahiri = 21°41'46"

# ASTRODIENST EPHEMERIS for the year 1845

## geocentric

MAY 1845

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♊      | ♋     | ♌     | ♍      | ♎      | ♏    | ♐      | ♑     | ♒      | ♓     | ♈     | ♉      | Day  |
|------|----------|----------|-------|--------|-------|-------|--------|--------|------|--------|-------|--------|-------|-------|--------|------|
| T 1  | 14 35 8  | 10♈27'10 | 6♊18  | 21°R48 | 6♋23  | 1♌55  | 22°V45 | 18♎19  | 8♏7  | 25♐44  | 23♑50 | 25°R45 | 26♒33 | 29♓46 | 11°R45 | T 1  |
| F 2  | 14 39 4  | 11°25'20 | 19°38 | 21♈30  | 7°37  | 2°29  | 22°59  | 18°21  | 8°10 | 25°45  | 23°51 | 25♒44  | 26°29 | 29°52 | 11♐44  | F 2  |
| S 3  | 14 43 1  | 12°23'28 | 2°V43 | 21° 8  | 8°51  | 3° 2  | 23°13  | 18°24  | 8°13 | 25°46  | 23°52 | 25°42  | 26°26 | 29°59 | 11°43  | S 3  |
| S 4  | 14 46 57 | 13°21'35 | 15°33 | 20°42  | 10° 5 | 3°35  | 23°27  | 18°26  | 8°16 | 25°46  | 23°54 | 25°40  | 26°23 | 0♉6   | 11°42  | S 4  |
| M 5  | 14 50 54 | 14°19'41 | 28°11 | 20°13  | 11°19 | 4° 8  | 23°41  | 18°29  | 8°19 | 25°47  | 23°55 | 25°39  | 26°20 | 0°12  | 11°42  | M 5  |
| T 6  | 14 54 50 | 15°17'44 | 10♈36 | 19°41  | 12°33 | 4°41  | 23°55  | 18°31  | 8°22 | 25°48  | 23°56 | 25°38  | 26°17 | 0°19  | 11°41  | T 6  |
| W 7  | 14 58 47 | 16°15'47 | 22°50 | 19° 8  | 13°47 | 5°14  | 24° 9  | 18°33  | 8°25 | 25°49  | 23°58 | 25°D37 | 26°14 | 0°26  | 11°41  | W 7  |
| T 8  | 15 2 43  | 17°13'48 | 4♐54  | 18°32  | 15° 1 | 5°47  | 24°23  | 18°35  | 8°28 | 25°49  | 23°59 | 25°38  | 26°10 | 0°32  | 11°41  | T 8  |
| F 9  | 15 6 40  | 18°11'47 | 16°50 | 17°56  | 16°15 | 6°19  | 24°37  | 18°37  | 8°31 | 25°50  | 24° 0 | 25°38  | 26° 7 | 0°39  | 11°40  | F 9  |
| S 10 | 15 10 36 | 19° 9'44 | 28°41 | 17°20  | 17°29 | 6°52  | 24°51  | 18°39  | 8°33 | 25°51  | 24° 2 | 25°39  | 26° 4 | 0°46  | 11°D40 | S 10 |
| S 11 | 15 14 33 | 20° 7'40 | 10♉30 | 16°44  | 18°43 | 7°24  | 25° 4  | 18°41  | 8°36 | 25°51  | 24° 3 | 25°39  | 26° 1 | 0°52  | 11°40  | S 11 |
| M12  | 15 18 30 | 21° 5'34 | 22°20 | 16° 9  | 19°57 | 7°56  | 25°18  | 18°43  | 8°39 | 25°52  | 24° 4 | 25°40  | 25°58 | 0°59  | 11°41  | M12  |
| T 13 | 15 22 26 | 22° 3'26 | 4♐16  | 15°36  | 21°11 | 8°27  | 25°32  | 18°45  | 8°42 | 25°52  | 24° 6 | 25°40  | 25°55 | 1° 6  | 11°41  | T 13 |
| W14  | 15 26 23 | 23° 1'16 | 16°21 | 15° 5  | 22°24 | 8°59  | 25°45  | 18°46  | 8°44 | 25°53  | 24° 7 | 25°40  | 25°51 | 1°12  | 11°41  | W14  |
| T 15 | 15 30 19 | 23°59'05 | 28°41 | 14°36  | 23°38 | 9°30  | 25°59  | 18°48  | 8°47 | 25°53  | 24° 8 | 25°R40 | 25°48 | 1°19  | 11°42  | T 15 |
| F 16 | 15 34 16 | 24°56'52 | 11♐19 | 14°11  | 24°52 | 10° 2 | 26°13  | 18°49  | 8°50 | 25°54  | 24° 9 | 25°40  | 25°45 | 1°26  | 11°42  | F 16 |
| S 17 | 15 38 12 | 25°54'37 | 24°19 | 13°49  | 26° 6 | 10°33 | 26°26  | 18°50  | 8°52 | 25°54  | 24°11 | 25°D40 | 25°42 | 1°32  | 11°43  | S 17 |
| S 18 | 15 42 9  | 26°52'21 | 7♊45  | 13°31  | 27°20 | 11° 3 | 26°39  | 18°52  | 8°55 | 25°55  | 24°12 | 25°40  | 25°39 | 1°39  | 11°44  | S 18 |
| M19  | 15 46 5  | 27°50'03 | 21°36 | 13°17  | 28°34 | 11°34 | 26°53  | 18°53  | 8°57 | 25°55  | 24°13 | 25°41  | 25°35 | 1°46  | 11°45  | M19  |
| T 20 | 15 50 2  | 28°47'43 | 5♐52  | 13° 7  | 29°47 | 12° 4 | 27° 6  | 18°54  | 9° 0 | 25°55  | 24°14 | 25°41  | 25°32 | 1°53  | 11°46  | T 20 |
| W21  | 15 53 59 | 29°45'22 | 20°50 | 13° 2  | 1♐1   | 12°34 | 27°20  | 18°54  | 9° 2 | 25°56  | 24°15 | 25°R41 | 25°29 | 1°59  | 11°47  | W21  |
| T 22 | 15 57 55 | 0♐43'00  | 5♊24  | 13°D 1 | 2°15  | 13° 4 | 27°33  | 18°55  | 9° 5 | 25°56  | 24°16 | 25°41  | 25°26 | 2° 6  | 11°49  | T 22 |
| F 23 | 16 1 52  | 1°40'37  | 20°25 | 13° 5  | 3°29  | 13°34 | 27°46  | 18°56  | 9° 7 | 25°56  | 24°18 | 25°41  | 25°23 | 2°13  | 11°50  | F 23 |
| S 24 | 16 5 48  | 2°38'12  | 5♋26  | 13°13  | 4°42  | 14° 4 | 27°59  | 18°57  | 9°10 | 25°56  | 24°19 | 25°40  | 25°20 | 2°19  | 11°52  | S 24 |
| S 25 | 16 9 45  | 3°35'47  | 20°18 | 13°25  | 5°56  | 14°33 | 28°12  | 18°57  | 9°12 | 25°56  | 24°20 | 25°39  | 25°16 | 2°26  | 11°53  | S 25 |
| M26  | 16 13 41 | 4°33'20  | 4♋55  | 13°42  | 7°10  | 15° 2 | 28°25  | 18°57  | 9°14 | 25°56  | 24°21 | 25°38  | 25°13 | 2°33  | 11°55  | M26  |
| T 27 | 16 17 38 | 5°30'53  | 19°11 | 14° 4  | 8°24  | 15°30 | 28°38  | 18°58  | 9°16 | 25°57  | 24°22 | 25°38  | 25°10 | 2°39  | 11°57  | T 27 |
| W28  | 16 21 35 | 6°28'25  | 3♊5   | 14°29  | 9°38  | 15°59 | 28°51  | 18°58  | 9°19 | 25°57  | 24°23 | 25°D37 | 25° 7 | 2°46  | 11°59  | W28  |
| T 29 | 16 25 31 | 7°25'56  | 16°36 | 14°59  | 10°51 | 16°27 | 29° 4  | 18°58  | 9°21 | 25°R57 | 24°24 | 25°37  | 25° 4 | 2°53  | 12° 1  | T 29 |
| F 30 | 16 29 28 | 8°23'26  | 29°45 | 15°33  | 12° 5 | 16°55 | 29°17  | 18°R58 | 9°23 | 25°57  | 24°25 | 25°38  | 25° 0 | 2°59  | 12° 3  | F 30 |
| S 31 | 16 33 24 | 9♐20'55  | 12♑36 | 16♊12  | 13♐19 | 17♌23 | 29°V29 | 18♎58  | 9♏25 | 25♐57  | 24♑26 | 25♒39  | 24♓57 | 3♉6   | 12♐6   | S 31 |

| Day  | ☉     | ☽     | ♊    | ♋     | ♌    | ♍     | ♎    | ♏     | ♐    | ♑     | ♒    | ♓     | ♈    | ♉    |
|------|-------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|------|
|      | decl  | decl  | lat  | decl  | lat  | decl  | lat  | decl  | lat  | decl  | lat  | decl  | lat  | lat  |
| T 1  | 14n58 | 4s23  | 5n11 | 20n 2 | 1n52 | 12n43 | 1s 0 | 21s13 | 1s30 | 7n51  | 1s 5 | 16s10 | 0s51 | 2n36 |
| F 2  | 15 16 | 0n19  | 4 49 | 19 45 | 1 39 | 13 9  | 0 58 | 21 7  | 1 32 | 7 56  | 1 5  | 16 9  | 0 51 | 2 37 |
| S 3  | 15 34 | 4 57  | 4 13 | 19 26 | 1 26 | 13 34 | 0 56 | 21 2  | 1 34 | 8 1   | 1 5  | 16 8  | 0 51 | 2 38 |
| S 4  | 15 52 | 9 16  | 3 24 | 19 5  | 1 11 | 13 59 | 0 55 | 20 56 | 1 37 | 8 6   | 1 5  | 16 8  | 0 52 | 2 39 |
| M 5  | 16 9  | 13 7  | 2 26 | 18 42 | 0 55 | 14 24 | 0 53 | 20 50 | 1 39 | 8 12  | 1 5  | 16 7  | 0 52 | 2 41 |
| T 6  | 16 26 | 16 19 | 1 22 | 18 18 | 0 39 | 14 49 | 0 51 | 20 45 | 1 41 | 8 17  | 1 5  | 16 7  | 0 52 | 2 42 |
| W 7  | 16 43 | 18 45 | 0 15 | 17 53 | 0 22 | 15 13 | 0 49 | 20 39 | 1 43 | 8 22  | 1 5  | 16 6  | 0 52 | 2 43 |
| T 8  | 16 59 | 20 17 | 0s51 | 17 26 | 0 5  | 15 36 | 0 47 | 20 33 | 1 46 | 8 27  | 1 5  | 16 6  | 0 52 | 2 44 |
| F 9  | 17 16 | 20 54 | 1 55 | 17 0  | 0s12 | 16 0  | 0 45 | 20 27 | 1 48 | 8 32  | 1 5  | 16 5  | 0 52 | 2 45 |
| S 10 | 17 32 | 20 34 | 2 53 | 16 33 | 0 30 | 16 23 | 0 43 | 20 21 | 1 51 | 8 37  | 1 5  | 16 5  | 0 53 | 2 46 |
| S 11 | 17 47 | 19 19 | 3 44 | 16 6  | 0 47 | 16 45 | 0 41 | 20 15 | 1 53 | 8 42  | 1 5  | 16 4  | 0 53 | 2 47 |
| M12  | 18 3  | 17 14 | 4 26 | 15 39 | 1 4  | 17 7  | 0 39 | 20 10 | 1 56 | 8 47  | 1 5  | 16 4  | 0 53 | 2 48 |
| T 13 | 18 18 | 14 25 | 4 56 | 15 14 | 1 21 | 17 29 | 0 36 | 20 4  | 1 58 | 8 52  | 1 5  | 16 4  | 0 53 | 2 49 |
| W14  | 18 33 | 10 57 | 5 14 | 14 49 | 1 37 | 17 50 | 0 34 | 19 58 | 2 1  | 8 57  | 1 6  | 16 3  | 0 53 | 2 50 |
| T 15 | 18 47 | 6 59  | 5 17 | 14 26 | 1 53 | 18 11 | 0 32 | 19 52 | 2 3  | 9 2   | 1 6  | 16 3  | 0 53 | 2 51 |
| F 16 | 19 1  | 2 36  | 5 6  | 14 5  | 2 7  | 18 31 | 0 30 | 19 46 | 2 6  | 9 6   | 1 6  | 16 3  | 0 54 | 2 52 |
| S 17 | 19 15 | 2s 1  | 4 39 | 13 45 | 2 21 | 18 51 | 0 28 | 19 40 | 2 8  | 9 11  | 1 6  | 16 2  | 0 54 | 2 53 |
| S 18 | 19 28 | 6 41  | 3 56 | 13 27 | 2 34 | 19 10 | 0 25 | 19 34 | 2 11 | 9 16  | 1 6  | 16 2  | 0 54 | 2 54 |
| M19  | 19 42 | 11 11 | 2 58 | 13 12 | 2 46 | 19 29 | 0 23 | 19 28 | 2 14 | 9 21  | 1 6  | 16 2  | 0 54 | 2 55 |
| T 20 | 19 54 | 15 11 | 1 48 | 12 59 | 2 57 | 19 47 | 0 21 | 19 22 | 2 16 | 9 25  | 1 6  | 16 2  | 0 54 | 2 56 |
| W21  | 20 7  | 18 21 | 0 29 | 12 48 | 3 7  | 20 5  | 0 18 | 19 16 | 2 19 | 9 30  | 1 6  | 16 2  | 0 54 | 2 57 |
| T 22 | 20 19 | 20 20 | 0n54 | 12 39 | 3 15 | 20 22 | 0 16 | 19 10 | 2 22 | 9 35  | 1 6  | 16 2  | 0 55 | 2 58 |
| F 23 | 20 31 | 20 54 | 2 13 | 12 33 | 3 23 | 20 39 | 0 14 | 19 4  | 2 25 | 9 39  | 1 6  | 16 2  | 0 55 | 2 59 |
| S 24 | 20 42 | 19 58 | 3 23 | 12 29 | 3 29 | 20 55 | 0 11 | 18 58 | 2 27 | 9 44  | 1 6  | 16 2  | 0 55 | 3 0  |
| S 25 | 20 53 | 17 39 | 4 19 | 12 28 | 3 35 | 21 10 | 0 9  | 18 52 | 2 30 | 9 49  | 1 6  | 16 2  | 0 55 | 3 1  |
| M26  | 21 4  | 14 15 | 4 57 | 12 29 | 3 39 | 21 25 | 0 7  | 18 47 | 2 33 | 9 53  | 1 6  | 16 2  | 0 55 | 3 2  |
| T 27 | 21 14 | 10 5  | 5 15 | 12 32 | 3 43 | 21 39 | 0 4  | 18 41 | 2 36 | 9 58  | 1 6  | 16 2  | 0 55 | 3 3  |
| W28  | 21 24 | 5 29  | 5 14 | 12 37 | 3 45 | 21 53 | 0 2  | 18 35 | 2 39 | 10 2  | 1 7  | 16 2  | 0 56 | 3 3  |
| T 29 | 21 34 | 0 45  | 4 56 | 12 44 | 3 46 | 22 6  | 0n 1 | 18 29 | 2 42 | 10 7  | 1 7  | 16 2  | 0 56 | 3 4  |
| F 30 | 21 43 | 3n55  | 4 23 | 12 54 | 3 47 | 22 18 | 0 3  | 18 24 | 2 45 | 10 11 | 1 7  | 16 2  | 0 56 | 3 5  |
| S 31 | 21n52 | 8n18  | 3n37 | 13n 5 | 3s46 | 22n30 | 0n 5 | 18s18 | 2s48 | 10n16 | 1s 7 | 16s 2 | 0s56 | 3n 6 |

Julian Day Number = 2395052.5, Delta T = 8.04 sec

Ecliptic obliquity = 23°27'29, Nutation = 0°00'14, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 22°34'50, Lahiri = 21°41'50

# ASTRODIENST EPHEMERIS for the year 1845

## geocentric

JUNE 1845

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♂     | ♀     | ♂     | ♂     | ♂      | ♂     | ♂      | ♂     | ♂      | ♂     | ♂    | ♂     | Day  |
|------|----------|----------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|------|-------|------|
| S 1  | 16 37 21 | 10Ⅱ18'24 | 25ⅴ10 | 16Ⅹ54 | 14Ⅲ33 | 17≈50 | 29ⅴ42 | 18°R58 | 9ⅴ27  | 25°R56 | 24ⅴ28 | 25Ⅲ40  | 24Ⅲ54 | 3Ⅹ13 | 12Ⅲ 8 | S 1  |
| M 2  | 16 41 17 | 11°15'52 | 7Ⅹ31  | 17°40 | 15°46 | 18°17 | 29°54 | 18≈58  | 9°29  | 25≈56  | 24°29 | 25°41  | 24°51 | 3°19 | 12°10 | M 2  |
| T 3  | 16 45 14 | 12°13'19 | 19°41 | 18°29 | 17° 0 | 18°43 | 0Ⅹ 7  | 18°57  | 9°31  | 25°56  | 24°30 | 25°R42 | 24°48 | 3°26 | 12°13 | T 3  |
| W 4  | 16 49 10 | 13°10'45 | 1Ⅱ42  | 19°23 | 18°14 | 19°10 | 0°19  | 18°57  | 9°33  | 25°56  | 24°31 | 25°42  | 24°45 | 3°33 | 12°16 | W 4  |
| T 5  | 16 53 7  | 14° 8'10 | 13°37 | 20°19 | 19°27 | 19°36 | 0°32  | 18°56  | 9°35  | 25°56  | 24°32 | 25°41  | 24°41 | 3°39 | 12°19 | T 5  |
| F 6  | 16 57 4  | 15° 5'35 | 25°28 | 21°20 | 20°41 | 20° 1 | 0°44  | 18°55  | 9°37  | 25°56  | 24°33 | 25°39  | 24°38 | 3°46 | 12°22 | F 6  |
| S 7  | 17 1 0   | 16° 2'59 | 7Ⅹ18  | 22°24 | 21°55 | 20°26 | 0°56  | 18°55  | 9°39  | 25°55  | 24°33 | 25°37  | 24°35 | 3°53 | 12°25 | S 7  |
| S 8  | 17 4 57  | 17° 0'21 | 19° 7 | 23°31 | 23° 9 | 20°51 | 1° 8  | 18°54  | 9°40  | 25°55  | 24°34 | 25°33  | 24°32 | 3°59 | 12°28 | S 8  |
| M 9  | 17 8 53  | 17°57'43 | 0Ⅹ59  | 24°41 | 24°22 | 21°16 | 1°20  | 18°53  | 9°42  | 25°55  | 24°35 | 25°30  | 24°29 | 4° 6 | 12°31 | M 9  |
| T 10 | 17 12 50 | 18°55'04 | 12°57 | 25°55 | 25°36 | 21°40 | 1°32  | 18°52  | 9°44  | 25°54  | 24°36 | 25°26  | 24°26 | 4°13 | 12°35 | T 10 |
| W11  | 17 16 46 | 19°52'24 | 25° 3 | 27°11 | 26°50 | 22° 4 | 1°44  | 18°51  | 9°45  | 25°54  | 24°37 | 25°24  | 24°22 | 4°19 | 12°38 | W11  |
| T 12 | 17 20 43 | 20°49'43 | 7Ⅲ22  | 28°31 | 28° 3 | 22°27 | 1°56  | 18°49  | 9°47  | 25°53  | 24°38 | 25°22  | 24°19 | 4°26 | 12°42 | T 12 |
| F 13 | 17 24 39 | 21°47'01 | 19°57 | 29°54 | 29°17 | 22°50 | 2° 8  | 18°48  | 9°49  | 25°53  | 24°39 | 25°D21 | 24°16 | 4°33 | 12°45 | F 13 |
| S 14 | 17 28 36 | 22°44'18 | 2Ⅹ52  | 1Ⅱ21  | 0Ⅹ31  | 23°13 | 2°19  | 18°47  | 9°50  | 25°52  | 24°40 | 25°21  | 24°13 | 4°39 | 12°49 | S 14 |
| S 15 | 17 32 33 | 23°41'34 | 16°11 | 2°50  | 1°44  | 23°35 | 2°31  | 18°45  | 9°52  | 25°52  | 24°41 | 25°22  | 24°10 | 4°46 | 12°53 | S 15 |
| M16  | 17 36 29 | 24°38'50 | 29°56 | 4°22  | 2°58  | 23°56 | 2°42  | 18°43  | 9°53  | 25°51  | 24°41 | 25°24  | 24° 6 | 4°53 | 12°57 | M16  |
| T 17 | 17 40 26 | 25°36'05 | 14Ⅲ 7 | 5°57  | 4°12  | 24°17 | 2°54  | 18°42  | 9°54  | 25°51  | 24°42 | 25°25  | 24° 3 | 4°59 | 13° 1 | T 17 |
| W18  | 17 44 22 | 26°33'19 | 28°44 | 7°35  | 5°25  | 24°38 | 3° 5  | 18°40  | 9°56  | 25°50  | 24°43 | 25°R25 | 24° 0 | 5° 6 | 13° 5 | W18  |
| T 19 | 17 48 19 | 27°30'32 | 13Ⅹ41 | 9°17  | 6°39  | 24°59 | 3°16  | 18°38  | 9°57  | 25°50  | 24°44 | 25°24  | 23°57 | 5°13 | 13°10 | T 19 |
| F 20 | 17 52 15 | 28°27'45 | 28°53 | 11° 1 | 7°53  | 25°18 | 3°27  | 18°36  | 9°58  | 25°49  | 24°44 | 25°22  | 23°54 | 5°19 | 13°14 | F 20 |
| S 21 | 17 56 12 | 29°24'58 | 14Ⅹ 8 | 12°47 | 9° 6  | 25°38 | 3°38  | 18°34  | 10° 0 | 25°48  | 24°45 | 25°18  | 23°51 | 5°26 | 13°18 | S 21 |
| S 22 | 18 0 8   | 0Ⅹ22'10  | 29°16 | 14°37 | 10°20 | 25°57 | 3°49  | 18°32  | 10° 1 | 25°47  | 24°46 | 25°13  | 23°47 | 5°33 | 13°23 | S 22 |
| M23  | 18 4 5   | 1°19'22  | 14≈9  | 16°30 | 11°34 | 26°15 | 4° 0  | 18°30  | 10° 2 | 25°47  | 24°46 | 25° 8  | 23°44 | 5°40 | 13°28 | M23  |
| T 24 | 18 8 2   | 2°16'34  | 28°39 | 18°24 | 12°47 | 26°33 | 4°10  | 18°27  | 10° 3 | 25°46  | 24°47 | 25° 4  | 23°41 | 5°46 | 13°32 | T 24 |
| W25  | 18 11 58 | 3°13'46  | 12Ⅹ42 | 20°22 | 14° 1 | 26°50 | 4°21  | 18°25  | 10° 4 | 25°45  | 24°48 | 25° 1  | 23°38 | 5°53 | 13°37 | W25  |
| T 26 | 18 15 55 | 4°10'58  | 26°17 | 22°22 | 15°14 | 27° 7 | 4°31  | 18°22  | 10° 5 | 25°44  | 24°48 | 24°59  | 23°35 | 6° 0 | 13°42 | T 26 |
| F 27 | 18 19 51 | 5° 8'10  | 9ⅴ26  | 24°24 | 16°28 | 27°23 | 4°42  | 18°20  | 10° 6 | 25°43  | 24°49 | 24°D59 | 23°32 | 6° 6 | 13°47 | F 27 |
| S 28 | 18 23 48 | 6° 5'22  | 22°11 | 26°28 | 17°42 | 27°38 | 4°52  | 18°17  | 10° 7 | 25°43  | 24°50 | 25° 0  | 23°28 | 6°13 | 13°52 | S 28 |
| S 29 | 18 27 44 | 7° 2'34  | 4Ⅹ37  | 28°33 | 18°55 | 27°53 | 5° 2  | 18°14  | 10° 8 | 25°42  | 24°50 | 25° 1  | 23°25 | 6°20 | 13°57 | S 29 |
| M30  | 18 31 41 | 7Ⅹ59'47  | 16Ⅹ48 | 0Ⅹ40  | 20Ⅹ 9 | 28≈7  | 5Ⅹ12  | 18≈12  | 10ⅴ 8 | 25≈41  | 24ⅴ51 | 25Ⅲ 2  | 23Ⅲ22 | 6Ⅹ26 | 14Ⅲ 3 | M30  |

| Day  | ☉     | ☽     | ♂    | ♀     | ♂    | ♂     | ♂    | ♂     | ♂    | ♂     | ♂    | ♂     | ♂    | ♂    | ♂    | ♂     | Day  |
|------|-------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|------|------|-------|------|
|      | decl  | decl  | lat  | decl  | lat  | decl  | lat  | decl  | lat  | decl  | lat  | decl  | lat  | decl | lat  | decl  | lat  |
| S 1  | 22n 1 | 12n15 | 2n41 | 13n18 | 3s45 | 22n41 | 0n 8 | 18s13 | 2s51 | 10n20 | 1s 7 | 16s 3 | 0s56 | 3n 7 | 0s41 | 13s17 | 0s26 |
| M 2  | 22 9  | 15 35 | 1 39 | 13 33 | 3 43 | 22 52 | 0 10 | 18 7  | 2 54 | 10 24 | 1 7  | 16 3  | 0 56 | 3 8  | 0 42 | 13 18 | 0 26 |
| T 3  | 22 17 | 18 12 | 0 33 | 13 49 | 3 40 | 23 2  | 0 13 | 18 2  | 2 57 | 10 28 | 1 7  | 16 3  | 0 57 | 3 8  | 0 42 | 13 18 | 0 26 |
| W 4  | 22 24 | 19 59 | 0s33 | 14 7  | 3 36 | 23 11 | 0 15 | 17 57 | 3 1  | 10 33 | 1 7  | 16 3  | 0 57 | 3 9  | 0 42 | 13 18 | 0 26 |
| T 5  | 22 31 | 20 50 | 1 37 | 14 26 | 3 32 | 23 20 | 0 17 | 17 52 | 3 4  | 10 37 | 1 7  | 16 4  | 0 57 | 3 10 | 0 42 | 13 18 | 0 26 |
| F 6  | 22 37 | 20 46 | 2 37 | 14 47 | 3 27 | 23 27 | 0 20 | 17 47 | 3 7  | 10 41 | 1 7  | 16 4  | 0 57 | 3 10 | 0 42 | 13 18 | 0 26 |
| S 7  | 22 44 | 19 46 | 3 30 | 15 9  | 3 21 | 23 35 | 0 22 | 17 42 | 3 10 | 10 45 | 1 7  | 16 4  | 0 57 | 3 11 | 0 42 | 13 18 | 0 26 |
| S 8  | 22 49 | 17 55 | 4 13 | 15 32 | 3 14 | 23 41 | 0 24 | 17 37 | 3 14 | 10 49 | 1 8  | 16 5  | 0 57 | 3 12 | 0 42 | 13 18 | 0 26 |
| M 9  | 22 55 | 15 18 | 4 46 | 15 55 | 3 7  | 23 47 | 0 27 | 17 32 | 3 17 | 10 53 | 1 8  | 16 5  | 0 58 | 3 12 | 0 42 | 13 18 | 0 26 |
| T 10 | 23 0  | 12 2  | 5 7  | 16 20 | 3 0  | 23 52 | 0 29 | 17 27 | 3 20 | 10 58 | 1 8  | 16 6  | 0 58 | 3 13 | 0 42 | 13 18 | 0 26 |
| W11  | 23 4  | 8 14  | 5 14 | 16 46 | 2 52 | 23 56 | 0 31 | 17 23 | 3 24 | 11 2  | 1 8  | 16 6  | 0 58 | 3 14 | 0 42 | 13 19 | 0 26 |
| T 12 | 23 8  | 4 3   | 5 7  | 17 12 | 2 43 | 24 0  | 0 33 | 17 18 | 3 27 | 11 5  | 1 8  | 16 7  | 0 58 | 3 14 | 0 42 | 13 19 | 0 26 |
| F 13 | 23 12 | 0s24  | 4 46 | 17 38 | 2 34 | 24 3  | 0 36 | 17 14 | 3 31 | 11 9  | 1 8  | 16 8  | 0 58 | 3 15 | 0 42 | 13 19 | 0 26 |
| S 14 | 23 16 | 4 57  | 4 10 | 18 5  | 2 24 | 24 5  | 0 38 | 17 10 | 3 34 | 11 13 | 1 8  | 16 8  | 0 58 | 3 15 | 0 42 | 13 19 | 0 26 |
| S 15 | 23 18 | 9 26  | 3 19 | 18 33 | 2 14 | 24 7  | 0 40 | 17 6  | 3 38 | 11 17 | 1 8  | 16 9  | 0 59 | 3 16 | 0 42 | 13 19 | 0 26 |
| M16  | 23 21 | 13 34 | 2 15 | 19 0  | 2 4  | 24 8  | 0 42 | 17 2  | 3 41 | 11 21 | 1 8  | 16 9  | 0 59 | 3 17 | 0 42 | 13 20 | 0 26 |
| T 17 | 23 23 | 17 4  | 1 2  | 19 27 | 1 53 | 24 8  | 0 44 | 16 58 | 3 45 | 11 25 | 1 9  | 16 10 | 0 59 | 3 17 | 0 42 | 13 20 | 0 27 |
| W18  | 23 25 | 19 36 | 0n18 | 19 55 | 1 42 | 24 7  | 0 46 | 16 55 | 3 49 | 11 28 | 1 9  | 16 11 | 0 59 | 3 18 | 0 42 | 13 20 | 0 27 |
| T 19 | 23 26 | 20 50 | 1 38 | 20 21 | 1 31 | 24 6  | 0 49 | 16 51 | 3 52 | 11 32 | 1 9  | 16 12 | 0 59 | 3 18 | 0 42 | 13 20 | 0 27 |
| F 20 | 23 27 | 20 34 | 2 53 | 20 48 | 1 20 | 24 4  | 0 51 | 16 48 | 3 56 | 11 36 | 1 9  | 16 12 | 0 59 | 3 19 | 0 42 | 13 20 | 0 27 |
| S 21 | 23 27 | 18 49 | 3 55 | 21 13 | 1 8  | 24 1  | 0 53 | 16 45 | 4 0  | 11 39 | 1 9  | 16 13 | 1 0  | 3 19 | 0 42 | 13 21 | 0 27 |
| S 22 | 23 27 | 15 45 | 4 40 | 21 38 | 0 57 | 23 58 | 0 55 | 16 42 | 4 4  | 11 43 | 1 9  | 16 14 | 1 0  | 3 19 | 0 42 | 13 21 | 0 27 |
| M23  | 23 27 | 11 43 | 5 6  | 22 2  | 0 45 | 23 54 | 0 56 | 16 39 | 4 7  | 11 46 | 1 9  | 16 15 | 1 0  | 3 20 | 0 42 | 13 21 | 0 27 |
| T 24 | 23 26 | 7 5   | 5 11 | 22 24 | 0 33 | 23 49 | 0 58 | 16 37 | 4 11 | 11 50 | 1 9  | 16 16 | 1 0  | 3 20 | 0 42 | 13 22 | 0 27 |
| W25  | 23 25 | 2 13  | 4 57 | 22 45 | 0 21 | 23 43 | 1 0  | 16 34 | 4 15 | 11 53 | 1 10 | 16 17 | 1 0  | 3 21 | 0 42 | 13 22 | 0 27 |
| T 26 | 23 24 | 2n36  | 4 26 | 23 4  | 0 10 | 23 37 | 1 2  | 16 32 | 4 19 | 11 57 | 1 10 | 16 17 | 1 0  | 3 21 | 0 42 | 13 22 | 0 27 |
| F 27 | 23 21 | 7 9   | 3 43 | 23 22 | 0n 1 | 23 30 | 1 4  | 16 30 | 4 23 | 12 0  | 1 10 | 16 18 | 1 1  | 3 21 | 0 42 | 13 22 | 0 27 |
| S 28 | 23 19 | 11 15 | 2 49 | 23 37 | 0 12 | 23 22 | 1 6  | 16 28 | 4 27 | 12 3  | 1 10 | 16 19 | 1 1  | 3 22 | 0 42 | 13 23 | 0 27 |
| S 29 | 23 16 | 14 47 | 1 49 | 23 50 | 0 23 | 23 14 | 1 7  | 16 27 | 4 31 | 12 7  | 1 10 | 16 20 | 1 1  | 3 22 | 0 42 | 13 23 | 0 27 |
| M30  | 23n13 | 17n35 | 0n45 | 24n 1 | 0n33 | 23n 5 | 1n 9 | 16s25 | 4s35 | 12n10 | 1s10 | 16s21 | 1s 1 | 3n22 | 0s42 | 13s23 | 0s27 |

Julian Day Number = 2395083.5, Delta T = 8.05 sec  
 Ecliptic obliquity = 23°27'28, Nutation = 0°00'13, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 22°34'54, Lahiri = 21°41'55

ASTRODIENST EPHEMERIS for the year 1845  
geocentric

JULY 1845

00:00 UT

| Day  | Sid.t    | ☉                     | ☽                  | ♂               | ♀                | ♂                | ♂               | ♂               | ♂      | ♂                | ♂      | ♂                  | ♂                   | ♂                 | ♂                | Day  |
|------|----------|-----------------------|--------------------|-----------------|------------------|------------------|-----------------|-----------------|--------|------------------|--------|--------------------|---------------------|-------------------|------------------|------|
| T 1  | 18 35 37 | 8 <sup>56</sup> 59    | 28 <sup>48</sup>   | 2 <sup>49</sup> | 21 <sup>22</sup> | 28 <sup>21</sup> | 5 <sup>22</sup> | 18°R 9          | 10°Y 9 | 25°R40           | 24°Y51 | 25°R 3             | 23 <sup>19</sup>    | 6 <sup>33</sup>   | 14 <sup>8</sup>  | T 1  |
| W 2  | 18 39 34 | 9°54'12               | 10 <sup>42</sup>   | 4°58            | 22°36            | 28°34            | 5°32            | 18 <sup>6</sup> | 10°10  | 25 <sup>39</sup> | 24°52  | 25 <sup>1</sup>    | 23°16               | 6°40              | 14°14            | W 2  |
| T 3  | 18 43 31 | 10°51'25              | 22°32              | 7° 8            | 23°50            | 28°47            | 5°42            | 18° 3           | 10°10  | 25°38            | 24°52  | 24°58              | 23°12               | 6°46              | 14°19            | T 3  |
| F 4  | 18 47 27 | 11°48'38              | 4 <sup>20</sup>    | 9°18            | 25° 3            | 28°58            | 5°51            | 18° 0           | 10°11  | 25°37            | 24°53  | 24°52              | 23° 9               | 6°53              | 14°25            | F 4  |
| S 5  | 18 51 24 | 12°45'51              | 16°10              | 11°28           | 26°17            | 29° 9            | 6° 1            | 17°56           | 10°12  | 25°36            | 24°53  | 24°45              | 23° 6               | 7° 0              | 14°30            | S 5  |
| S 6  | 18 55 20 | 13°43'04              | 28° 3              | 13°38           | 27°30            | 29°20            | 6°10            | 17°53           | 10°12  | 25°34            | 24°53  | 24°36              | 23° 3               | 7° 6              | 14°36            | S 6  |
| M 7  | 18 59 17 | 14°40'17              | 10 <sup>0</sup>    | 15°48           | 28°44            | 29°29            | 6°19            | 17°50           | 10°13  | 25°33            | 24°54  | 24°27              | 23° 0               | 7°13              | 14°42            | M 7  |
| T 8  | 19 3 13  | 15°37'30              | 22° 4              | 17°57           | 29°58            | 29°38            | 6°29            | 17°46           | 10°13  | 25°32            | 24°54  | 24°18              | 22°57               | 7°20              | 14°48            | T 8  |
| W 9  | 19 7 10  | 16°34'43              | 4 <sup>16</sup>    | 20° 5           | 1 <sup>11</sup>  | 29°47            | 6°38            | 17°43           | 10°13  | 25°31            | 24°55  | 24°10              | 22°53               | 7°26              | 14°54            | W 9  |
| T 10 | 19 11 6  | 17°31'56              | 16°39              | 22°11           | 2°25             | 29°54            | 6°46            | 17°40           | 10°14  | 25°30            | 24°55  | 24° 4              | 22°50               | 7°33              | 15° 0            | T 10 |
| F 11 | 19 15 3  | 18°29'09              | 29°15              | 24°17           | 3°38             | 0 <sup>1</sup>   | 6°55            | 17°36           | 10°14  | 25°29            | 24°55  | 24° 0              | 22°47               | 7°40              | 15° 6            | F 11 |
| S 12 | 19 19 0  | 19°26'22              | 12 <sup>8</sup>    | 26°21           | 4°52             | 0° 7             | 7° 4            | 17°32           | 10°14  | 25°27            | 24°56  | 23°58              | 22°44               | 7°46              | 15°12            | S 12 |
| S 13 | 19 22 56 | 20°23'35              | 25°21              | 28°24           | 6° 5             | 0°12             | 7°12            | 17°29           | 10°14  | 25°26            | 24°56  | 23°D58             | 22°41               | 7°53              | 15°19            | S 13 |
| M14  | 19 26 53 | 21°20'48              | 8 <sup>57</sup>    | 0 <sup>25</sup> | 7°19             | 0°17             | 7°20            | 17°25           | 10°14  | 25°25            | 24°56  | 23°58              | 22°38               | 8° 0              | 15°25            | M14  |
| T 15 | 19 30 49 | 22°18'02              | 22°58              | 2°24            | 8°33             | 0°21             | 7°29            | 17°21           | 10°14  | 25°24            | 24°56  | 23°R59             | 22°34               | 8° 7              | 15°31            | T 15 |
| W16  | 19 34 46 | 23°15'15              | 7 <sup>24</sup>    | 4°22            | 9°46             | 0°24             | 7°37            | 17°17           | 10°R14 | 25°22            | 24°56  | 23°58              | 22°31               | 8°13              | 15°38            | W16  |
| T 17 | 19 38 42 | 24°12'29              | 22°12              | 6°18            | 11° 0            | 0°26             | 7°45            | 17°13           | 10°14  | 25°21            | 24°57  | 23°56              | 22°28               | 8°20              | 15°45            | T 17 |
| F 18 | 19 42 39 | 25° 9'43              | 7 <sup>31</sup>    | 8°12            | 12°13            | 0°28             | 7°52            | 17° 9           | 10°14  | 25°20            | 24°57  | 23°51              | 22°25               | 8°27              | 15°51            | F 18 |
| S 19 | 19 46 35 | 26° 6'57              | 22°31              | 10° 5           | 13°27            | 0°29             | 8° 0            | 17° 5           | 10°14  | 25°18            | 24°57  | 23°43              | 22°22               | 8°33              | 15°58            | S 19 |
| S 20 | 19 50 32 | 27° 4'12              | 7 <sup>43</sup>    | 11°55           | 14°40            | 0°R29            | 8° 8            | 17° 1           | 10°14  | 25°17            | 24°57  | 23°34              | 22°18               | 8°40              | 16° 5            | S 20 |
| M21  | 19 54 29 | 28° 1'28              | 22°42              | 13°44           | 15°54            | 0°28             | 8°15            | 16°57           | 10°14  | 25°16            | 24°57  | 23°25              | 22°15               | 8°47              | 16°12            | M21  |
| T 22 | 19 58 25 | 28°58'44              | 7 <sup>20</sup>    | 15°31           | 17° 7            | 0°26             | 8°22            | 16°53           | 10°13  | 25°14            | 24°57  | 23°16              | 22°12               | 8°53              | 16°18            | T 22 |
| W23  | 20 2 22  | 29°56'01              | 21°31              | 17°17           | 18°21            | 0°24             | 8°29            | 16°49           | 10°13  | 25°13            | 24°57  | 23° 9              | 22° 9               | 9° 0              | 16°25            | W23  |
| T 24 | 20 6 18  | 0 <sup>53</sup> 19    | 5°Y13              | 19° 0           | 19°34            | 0°21             | 8°36            | 16°45           | 10°13  | 25°11            | 24°57  | 23° 4              | 22° 6               | 9° 7              | 16°32            | T 24 |
| F 25 | 20 10 15 | 1°50'37               | 18°25              | 20°42           | 20°47            | 0°17             | 8°43            | 16°41           | 10°12  | 25°10            | 24°R57 | 23° 2              | 22° 3               | 9°13              | 16°39            | F 25 |
| S 26 | 20 14 11 | 2°47'57               | 1 <sup>8</sup> 11  | 22°22           | 22° 1            | 0°12             | 8°49            | 16°36           | 10°12  | 25° 8            | 24°57  | 23°D 1             | 21°59               | 9°20              | 16°47            | S 26 |
| S 27 | 20 18 8  | 3°45'18               | 13°36              | 24° 1           | 23°14            | 0° 7             | 8°56            | 16°32           | 10°11  | 25° 7            | 24°57  | 23° 1              | 21°56               | 9°27              | 16°54            | S 27 |
| M28  | 20 22 4  | 4°42'40               | 25°44              | 25°38           | 24°28            | 0° 1             | 9° 2            | 16°28           | 10°11  | 25° 5            | 24°57  | 23°R 1             | 21°53               | 9°33              | 17° 1            | M28  |
| T 29 | 20 26 1  | 5°40'03               | 7 <sup>11</sup> 41 | 27°12           | 25°41            | 29°54            | 9° 8            | 16°23           | 10°10  | 25° 4            | 24°57  | 23° 0              | 21°50               | 9°40              | 17° 8            | T 29 |
| W30  | 20 29 58 | 6°37'27               | 19°32              | 28°46           | 26°55            | 29°46            | 9°14            | 16°19           | 10°10  | 25° 2            | 24°57  | 22°58              | 21°47               | 9°47              | 17°16            | W30  |
| T 31 | 20 33 54 | 7 <sup>13</sup> 45'52 | 1 <sup>20</sup>    | 0 <sup>17</sup> | 28 <sup>8</sup>  | 29°38            | 9 <sup>20</sup> | 16°15           | 10°Y 9 | 25°1             | 24°Y57 | 22 <sup>15</sup> 2 | 21 <sup>14</sup> 44 | 9 <sup>25</sup> 4 | 17 <sup>23</sup> | T 31 |

| Day  | ☉     | ☽        | ♂        | ♀        | ♂        | ♂        | ♂        | ♂        | ♂        | ♂        | ♂        | ♂        | ♂        | ♂        | ♂        | ♂        |
|------|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|      | decl  | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat |
| T 1  | 23n 9 | 19n35    | 0s20     | 24n 9    | 0n43     | 22n55    | 1n10     | 16s24    | 4s38     | 12n13    | 1s10     | 16s22    | 1s 1     | 3n22     | 0s42     | 13s24    |
| W 2  | 23 5  | 20 41    | 1 24     | 24 14    | 0 52     | 22 45    | 1 12     | 16 23    | 4 42     | 12 16    | 1 11     | 16 23    | 1 1      | 3 23     | 0 42     | 13 24    |
| T 3  | 23 1  | 20 52    | 2 23     | 24 17    | 1 1      | 22 34    | 1 13     | 16 23    | 4 46     | 12 19    | 1 11     | 16 25    | 1 1      | 3 23     | 0 42     | 13 25    |
| F 4  | 22 56 | 20 7     | 3 16     | 24 17    | 1 9      | 22 22    | 1 15     | 16 22    | 4 50     | 12 22    | 1 11     | 16 26    | 1 2      | 3 23     | 0 42     | 13 25    |
| S 5  | 22 51 | 18 30    | 4 0      | 24 14    | 1 16     | 22 10    | 1 16     | 16 22    | 4 54     | 12 25    | 1 11     | 16 27    | 1 2      | 3 23     | 0 42     | 13 25    |
| S 6  | 22 45 | 16 5     | 4 35     | 24 8     | 1 23     | 21 57    | 1 18     | 16 22    | 4 58     | 12 28    | 1 11     | 16 28    | 1 2      | 3 23     | 0 43     | 13 26    |
| M 7  | 22 39 | 12 59    | 4 57     | 24 0     | 1 29     | 21 43    | 1 19     | 16 23    | 5 2      | 12 31    | 1 11     | 16 29    | 1 2      | 3 24     | 0 43     | 13 26    |
| T 8  | 22 33 | 9 20     | 5 6      | 23 49    | 1 34     | 21 29    | 1 20     | 16 23    | 5 6      | 12 34    | 1 12     | 16 30    | 1 2      | 3 24     | 0 43     | 13 26    |
| W 9  | 22 26 | 5 16     | 5 2      | 23 35    | 1 39     | 21 14    | 1 21     | 16 24    | 5 10     | 12 37    | 1 12     | 16 31    | 1 2      | 3 24     | 0 43     | 13 27    |
| T 10 | 22 18 | 0 56     | 4 43     | 23 19    | 1 42     | 20 58    | 1 22     | 16 25    | 5 14     | 12 39    | 1 12     | 16 33    | 1 3      | 3 24     | 0 43     | 13 27    |
| F 11 | 22 11 | 3s32     | 4 11     | 23 0     | 1 45     | 20 42    | 1 23     | 16 26    | 5 18     | 12 42    | 1 12     | 16 34    | 1 3      | 3 24     | 0 43     | 13 28    |
| S 12 | 22 3  | 7 57     | 3 25     | 22 39    | 1 47     | 20 26    | 1 24     | 16 28    | 5 22     | 12 45    | 1 12     | 16 35    | 1 3      | 3 24     | 0 43     | 13 28    |
| S 13 | 21 55 | 12 6     | 2 27     | 22 16    | 1 49     | 20 9     | 1 25     | 16 29    | 5 26     | 12 47    | 1 12     | 16 36    | 1 3      | 3 24     | 0 43     | 13 29    |
| M14  | 21 46 | 15 45    | 1 20     | 21 52    | 1 49     | 19 51    | 1 26     | 16 31    | 5 30     | 12 50    | 1 13     | 16 38    | 1 3      | 3 24     | 0 43     | 13 29    |
| T 15 | 21 37 | 18 37    | 0 5      | 21 25    | 1 49     | 19 32    | 1 27     | 16 34    | 5 34     | 12 52    | 1 13     | 16 39    | 1 3      | 3 24     | 0 43     | 13 30    |
| W16  | 21 27 | 20 23    | 1n11     | 20 57    | 1 49     | 19 14    | 1 28     | 16 36    | 5 38     | 12 55    | 1 13     | 16 40    | 1 3      | 3 24     | 0 43     | 13 30    |
| T 17 | 21 17 | 20 49    | 2 25     | 20 27    | 1 48     | 18 54    | 1 28     | 16 39    | 5 42     | 12 57    | 1 13     | 16 42    | 1 3      | 3 24     | 0 43     | 13 30    |
| F 18 | 21 7  | 19 46    | 3 30     | 19 56    | 1 46     | 18 34    | 1 29     | 16 42    | 5 46     | 12 59    | 1 13     | 16 43    | 1 4      | 3 24     | 0 43     | 13 31    |
| S 19 | 20 57 | 17 18    | 4 20     | 19 23    | 1 43     | 18 14    | 1 30     | 16 45    | 5 49     | 13 2     | 1 13     | 16 44    | 1 4      | 3 24     | 0 43     | 13 31    |
| S 20 | 20 46 | 13 39    | 4 52     | 18 50    | 1 40     | 17 53    | 1 30     | 16 49    | 5 53     | 13 4     | 1 14     | 16 46    | 1 4      | 3 24     | 0 43     | 13 32    |
| M21  | 20 34 | 9 10     | 5 4      | 18 15    | 1 37     | 17 31    | 1 30     | 16 52    | 5 57     | 13 6     | 1 14     | 16 47    | 1 4      | 3 24     | 0 43     | 13 32    |
| T 22 | 20 23 | 4 16     | 4 55     | 17 40    | 1 33     | 17 10    | 1 31     | 16 56    | 6 0      | 13 8     | 1 14     | 16 48    | 1 4      | 3 24     | 0 43     | 13 33    |
| W23  | 20 11 | 0n44     | 4 28     | 17 4     | 1 28     | 16 47    | 1 31     | 17 0     | 6 4      | 13 10    | 1 14     | 16 50    | 1 4      | 3 23     | 0 43     | 13 33    |
| T 24 | 19 59 | 5 32     | 3 46     | 16 27    | 1 23     | 16 24    | 1 31     | 17 4     | 6 7      | 13 12    | 1 14     | 16 51    | 1 4      | 3 23     | 0 43     | 13 34    |
| F 25 | 19 46 | 9 54     | 2 53     | 15 49    | 1 17     | 16 1     | 1 31     | 17 9     | 6 11     | 13 14    | 1 15     | 16 52    | 1 4      | 3 23     | 0 43     | 13 34    |
| S 26 | 19 33 | 13 40    | 1 54     | 15 11    | 1 11     | 15 37    | 1 32     | 17 14    | 6 14     | 13 16    | 1 15     | 16 54    | 1 5      | 3 23     | 0 43     | 13 35    |
| S 27 | 19 20 | 16 44    | 0 50     | 14 33    | 1 5      | 15 13    | 1 32     | 17 19    | 6 17     | 13 18    | 1 15     | 16 55    | 1 5      | 3 23     | 0 43     | 13 35    |
| M28  | 19 6  | 18 58    | 0s14     | 13 54    | 0 58     | 14 49    | 1 31     | 17 24    | 6 20     | 13 20    | 1 15     | 16 57    | 1 5      | 3 22     | 0 43     | 13 36    |
| T 29 | 18 52 | 20 20    | 1 17     | 13 15    | 0 51     | 14 24    | 1 31     | 17 29    | 6 23     | 13 22    | 1 15     | 16 58    | 1 5      | 3 22     | 0 43     | 13 36    |
| W30  | 18 38 | 20 47    | 2 16     | 12 36    | 0 44     | 13 59    | 1 31     | 17 34    | 6 26     | 13 23    | 1 16     | 16 59    | 1 5      | 3 22     | 0 43     | 13 37    |
| T 31 | 18n23 | 20n19    | 3s 8     | 11n57    | 0n36     | 13n33    | 1n31     | 17s40    | 6s29     | 13n25    | 1s16     | 17s 1    | 1s 5     | 3n21     | 0s43     | 13s37    |

Julian Day Number = 2395113.5, Delta T = 8.07 sec  
Ecliptic obliquity = 23°27'28", Nutation = 0°00'14", out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 22°34'58", Lahiri = 21°41'59"



# ASTRODIENST EPHEMERIS for the year 1845

## geocentric

AUGUST 1845

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♂      | ♀     | ♂     | ♂      | ♂     | ♂     | ♂     | ♂     | ♂      | ♂     | ♂     | ♂     | Day  |
|------|----------|----------|-------|--------|-------|-------|--------|-------|-------|-------|-------|--------|-------|-------|-------|------|
| F 1  | 20 37 51 | 8♌23'19  | 13♍9  | 1♎47   | 29♏21 | 29♏28 | 9♏26   | 16♏10 | 10♏8  | 24♏59 | 24♏57 | 22♏44  | 21♎40 | 10♏0  | 17♎31 | F 1  |
| S 2  | 20 41 47 | 9♏29'46  | 25° 2 | 3°15   | 0♎35  | 29♎19 | 9°31   | 16♎6  | 10♏7  | 24♎58 | 24♏57 | 22♎33  | 21°37 | 10° 7 | 17°38 | S 2  |
| S 3  | 20 45 44 | 10°27'14 | 7♏1   | 4°41   | 1°48  | 29° 8 | 9°36   | 16° 1 | 10° 6 | 24°56 | 24°57 | 22°21  | 21°34 | 10°14 | 17°46 | S 3  |
| M 4  | 20 49 40 | 11°24'43 | 19° 8 | 6° 5   | 3° 2  | 28°57 | 9°41   | 15°57 | 10° 6 | 24°54 | 24°56 | 22° 7  | 21°31 | 10°20 | 17°53 | M 4  |
| T 5  | 20 53 37 | 12°22'13 | 1♎22  | 7°27   | 4°15  | 28°46 | 9°46   | 15°52 | 10° 5 | 24°53 | 24°56 | 21°54  | 21°28 | 10°27 | 18° 1 | T 5  |
| W 6  | 20 57 33 | 13°19'44 | 13°46 | 8°48   | 5°28  | 28°34 | 9°51   | 15°48 | 10° 4 | 24°51 | 24°56 | 21°42  | 21°24 | 10°34 | 18° 9 | W 6  |
| T 7  | 21 1 30  | 14°17'16 | 26°20 | 10° 7  | 6°42  | 28°21 | 9°56   | 15°43 | 10° 3 | 24°50 | 24°56 | 21°33  | 21°21 | 10°40 | 18°17 | T 7  |
| F 8  | 21 5 27  | 15°14'49 | 9♏5   | 11°23  | 7°55  | 28° 8 | 10° 0  | 15°39 | 10° 2 | 24°48 | 24°56 | 21°26  | 21°18 | 10°47 | 18°24 | F 8  |
| S 9  | 21 9 23  | 16°12'23 | 22° 3 | 12°38  | 9° 8  | 27°54 | 10° 4  | 15°34 | 10° 0 | 24°46 | 24°55 | 21°22  | 21°15 | 10°54 | 18°32 | S 9  |
| S 10 | 21 13 20 | 17° 9'58 | 5♎18  | 13°51  | 10°22 | 27°40 | 10° 8  | 15°30 | 9°59  | 24°45 | 24°55 | 21°21  | 21°12 | 11° 0 | 18°40 | S 10 |
| M 11 | 21 17 16 | 18° 7'34 | 18°49 | 15° 1  | 11°35 | 27°26 | 10°12  | 15°25 | 9°58  | 24°43 | 24°55 | 21°21  | 21° 9 | 11° 7 | 18°48 | M 11 |
| T 12 | 21 21 13 | 19° 5'10 | 2♎41  | 16° 9  | 12°48 | 27°11 | 10°16  | 15°21 | 9°57  | 24°42 | 24°54 | 21°21  | 21° 5 | 11°14 | 18°56 | T 12 |
| W 13 | 21 25 9  | 20° 2'48 | 16°53 | 17°15  | 14° 1 | 26°56 | 10°20  | 15°17 | 9°56  | 24°40 | 24°54 | 21°19  | 21° 2 | 11°21 | 19° 4 | W 13 |
| T 14 | 21 29 6  | 21° 0'27 | 1♎25  | 18°18  | 15°15 | 26°41 | 10°23  | 15°12 | 9°54  | 24°38 | 24°53 | 21°16  | 20°59 | 11°27 | 19°12 | T 14 |
| F 15 | 21 33 2  | 21°58'06 | 16°13 | 19°19  | 16°28 | 26°25 | 10°26  | 15° 8 | 9°53  | 24°37 | 24°53 | 21°10  | 20°56 | 11°34 | 19°20 | F 15 |
| S 16 | 21 36 59 | 22°55'47 | 1♎11  | 20°18  | 17°41 | 26°10 | 10°29  | 15° 3 | 9°52  | 24°35 | 24°53 | 21° 1  | 20°53 | 11°41 | 19°28 | S 16 |
| S 17 | 21 40 56 | 23°53'29 | 16°10 | 21°13  | 18°54 | 25°54 | 10°32  | 14°59 | 9°50  | 24°33 | 24°52 | 20°50  | 20°50 | 11°47 | 19°37 | S 17 |
| M 18 | 21 44 52 | 24°51'12 | 1♎1   | 22° 5  | 20° 7 | 25°38 | 10°34  | 14°54 | 9°49  | 24°32 | 24°52 | 20°39  | 20°46 | 11°54 | 19°45 | M 18 |
| T 19 | 21 48 49 | 25°48'57 | 15°36 | 22°55  | 21°21 | 25°22 | 10°37  | 14°50 | 9°47  | 24°30 | 24°51 | 20°29  | 20°43 | 12° 1 | 19°53 | T 19 |
| W 20 | 21 52 45 | 26°46'43 | 29°46 | 23°41  | 22°34 | 25° 6 | 10°39  | 14°46 | 9°46  | 24°29 | 24°51 | 20°20  | 20°40 | 12° 7 | 20° 1 | W 20 |
| T 21 | 21 56 42 | 27°44'30 | 13♏29 | 24°23  | 23°47 | 24°51 | 10°41  | 14°41 | 9°44  | 24°27 | 24°50 | 20°13  | 20°37 | 12°14 | 20°10 | T 21 |
| F 22 | 22 0 38  | 28°42'20 | 26°44 | 25° 2  | 25° 0 | 24°35 | 10°43  | 14°37 | 9°42  | 24°25 | 24°50 | 20° 9  | 20°34 | 12°21 | 20°18 | F 22 |
| S 23 | 22 4 35  | 29°40'11 | 9♏33  | 25°37  | 26°13 | 24°20 | 10°44  | 14°33 | 9°41  | 24°24 | 24°49 | 20° 8  | 20°30 | 12°27 | 20°26 | S 23 |
| S 24 | 22 8 31  | 0♎38'04  | 22° 0 | 26° 8  | 27°26 | 24° 4 | 10°46  | 14°29 | 9°39  | 24°22 | 24°48 | 20°D 7 | 20°27 | 12°34 | 20°35 | S 24 |
| M 25 | 22 12 28 | 1°35'58  | 4♎10  | 26°35  | 28°39 | 23°49 | 10°47  | 14°24 | 9°37  | 24°20 | 24°48 | 20°R 7 | 20°24 | 12°41 | 20°43 | M 25 |
| T 26 | 22 16 25 | 2°33'55  | 16° 8 | 26°56  | 29°52 | 23°34 | 10°48  | 14°20 | 9°36  | 24°19 | 24°47 | 20° 7  | 20°21 | 12°48 | 20°52 | T 26 |
| W 27 | 22 20 21 | 3°31'53  | 27°59 | 27°13  | 1♎5   | 23°20 | 10°49  | 14°16 | 9°34  | 24°17 | 24°47 | 20° 4  | 20°18 | 12°54 | 21° 0 | W 27 |
| T 28 | 22 24 18 | 4°29'54  | 9♏48  | 27°25  | 2°18  | 23° 6 | 10°50  | 14°12 | 9°32  | 24°16 | 24°46 | 19°59  | 20°15 | 13° 1 | 21° 9 | T 28 |
| F 29 | 22 28 14 | 5°27'56  | 21°40 | 27°31  | 3°31  | 22°52 | 10°50  | 14° 8 | 9°30  | 24°14 | 24°45 | 19°52  | 20°11 | 13° 8 | 21°17 | F 29 |
| S 30 | 22 32 11 | 6°26'00  | 3♏38  | 27°R31 | 4°44  | 22°39 | 10°50  | 14° 4 | 9°28  | 24°12 | 24°45 | 19°42  | 20° 8 | 13°14 | 21°26 | S 30 |
| S 31 | 22 36 7  | 7♎24'05  | 15♏45 | 27♎26  | 5♎57  | 22♎26 | 10°R50 | 14♎0  | 9♏26  | 24♎11 | 24♏44 | 19♎30  | 20♎5  | 13♏21 | 21♎34 | S 31 |

| Day  | ☉     | ☽     | ♂    | ♀     | ♂    | ♂     | ♂    | ♂     | ♂    | ♂     | ♂    | ♂     | ♂    | ♂    | ♂    | Day  |
|------|-------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|------|------|------|
|      | decl  | decl  | lat  | decl  | lat  | decl  | lat  | decl  | lat  | decl  | lat  | decl  | lat  | decl | lat  |      |
| F 1  | 18n 8 | 18n57 | 3s53 | 11n17 | 0n28 | 13n 7 | 1n30 | 17s46 | 6s31 | 13n27 | 1s16 | 17s 2 | 1s 5 | 3n21 | 0s43 | F 1  |
| S 2  | 17 53 | 16 46 | 4 27 | 10 38 | 0 20 | 12 41 | 1 30 | 17 51 | 6 34 | 13 28 | 1 16 | 17 4  | 1 5  | 3 21 | 0 43 | S 2  |
| S 3  | 17 38 | 13 51 | 4 50 | 9 50  | 0 11 | 12 14 | 1 30 | 17 57 | 6 36 | 13 30 | 1 16 | 17 5  | 1 5  | 3 20 | 0 43 | S 3  |
| M 4  | 17 22 | 10 21 | 5 0  | 9 20  | 0 2  | 11 47 | 1 29 | 18 3  | 6 38 | 13 31 | 1 17 | 17 7  | 1 5  | 3 20 | 0 43 | M 4  |
| T 5  | 17 6  | 6 23  | 4 56 | 8 41  | 0s 7 | 11 20 | 1 28 | 18 9  | 6 40 | 13 32 | 1 17 | 17 8  | 1 6  | 3 20 | 0 43 | T 5  |
| W 6  | 16 50 | 2 6   | 4 39 | 8 2   | 0 16 | 10 52 | 1 28 | 18 15 | 6 42 | 13 34 | 1 17 | 17 9  | 1 6  | 3 19 | 0 43 | W 6  |
| T 7  | 16 33 | 2s19  | 4 8  | 7 23  | 0 25 | 10 24 | 1 27 | 18 21 | 6 44 | 13 35 | 1 17 | 17 11 | 1 6  | 3 19 | 0 43 | T 7  |
| F 8  | 16 17 | 6 43  | 3 24 | 6 45  | 0 35 | 9 56  | 1 26 | 18 27 | 6 45 | 13 36 | 1 17 | 17 12 | 1 6  | 3 18 | 0 44 | F 8  |
| S 9  | 15 59 | 10 53 | 2 28 | 6 8   | 0 45 | 9 28  | 1 25 | 18 33 | 6 46 | 13 37 | 1 18 | 17 14 | 1 6  | 3 18 | 0 44 | S 9  |
| S 10 | 15 42 | 14 37 | 1 24 | 5 31  | 0 55 | 8 59  | 1 24 | 18 39 | 6 48 | 13 38 | 1 18 | 17 15 | 1 6  | 3 17 | 0 44 | S 10 |
| M 11 | 15 25 | 17 39 | 0 13 | 4 54  | 1 5  | 8 30  | 1 23 | 18 45 | 6 48 | 13 39 | 1 18 | 17 16 | 1 6  | 3 17 | 0 44 | M 11 |
| T 12 | 15 7  | 19 44 | 1n 0 | 4 19  | 1 15 | 8 1   | 1 22 | 18 51 | 6 49 | 13 40 | 1 18 | 17 18 | 1 6  | 3 16 | 0 44 | T 12 |
| W 13 | 14 49 | 20 39 | 2 11 | 3 44  | 1 26 | 7 32  | 1 21 | 18 57 | 6 50 | 13 41 | 1 18 | 17 19 | 1 6  | 3 16 | 0 44 | W 13 |
| T 14 | 14 30 | 20 12 | 3 15 | 3 39  | 1 36 | 7 2   | 1 19 | 19 3  | 6 50 | 13 42 | 1 19 | 17 21 | 1 6  | 3 15 | 0 44 | T 14 |
| F 15 | 14 12 | 18 23 | 4 7  | 2 36  | 1 46 | 6 33  | 1 18 | 19 8  | 6 50 | 13 43 | 1 19 | 17 22 | 1 6  | 3 15 | 0 44 | F 15 |
| S 16 | 13 53 | 15 18 | 4 43 | 2 3   | 1 57 | 6 3   | 1 17 | 19 14 | 6 50 | 13 44 | 1 19 | 17 23 | 1 6  | 3 14 | 0 44 | S 16 |
| S 17 | 13 34 | 11 14 | 4 59 | 1 32  | 2 7  | 5 33  | 1 15 | 19 19 | 6 50 | 13 44 | 1 19 | 17 25 | 1 6  | 3 14 | 0 44 | S 17 |
| M 18 | 13 15 | 6 30  | 4 56 | 1 2   | 2 18 | 5 3   | 1 14 | 19 24 | 6 50 | 13 45 | 1 19 | 17 26 | 1 6  | 3 13 | 0 44 | M 18 |
| T 19 | 12 55 | 1 30  | 4 33 | 0 33  | 2 28 | 4 32  | 1 12 | 19 29 | 6 49 | 13 45 | 1 20 | 17 27 | 1 7  | 3 13 | 0 44 | T 19 |
| W 20 | 12 36 | 3n28  | 3 53 | 0 5   | 2 38 | 4 2   | 1 10 | 19 34 | 6 48 | 13 46 | 1 20 | 17 29 | 1 7  | 3 12 | 0 44 | W 20 |
| T 21 | 12 16 | 8 6   | 3 1  | 0s21  | 2 49 | 3 31  | 1 9  | 19 38 | 6 47 | 13 46 | 1 20 | 17 30 | 1 7  | 3 11 | 0 44 | T 21 |
| F 22 | 11 56 | 12 11 | 2 0  | 0 46  | 2 59 | 3 1   | 1 7  | 19 42 | 6 46 | 13 47 | 1 20 | 17 31 | 1 7  | 3 11 | 0 44 | F 22 |
| S 23 | 11 36 | 15 34 | 0 56 | 1 8   | 3 8  | 2 30  | 1 5  | 19 46 | 6 45 | 13 47 | 1 20 | 17 33 | 1 7  | 3 10 | 0 44 | S 23 |
| S 24 | 11 15 | 18 7  | 0s10 | 1 29  | 3 18 | 1 59  | 1 3  | 19 50 | 6 43 | 13 47 | 1 21 | 17 34 | 1 7  | 3 9  | 0 44 | S 24 |
| M 25 | 10 55 | 19 47 | 1 14 | 1 48  | 3 27 | 1 28  | 1 1  | 19 53 | 6 41 | 13 47 | 1 21 | 17 35 | 1 7  | 3 9  | 0 44 | M 25 |
| T 26 | 10 34 | 20 32 | 2 13 | 2 5   | 3 36 | 0 57  | 0 59 | 19 57 | 6 39 | 13 48 | 1 21 | 17 37 | 1 7  | 3 8  | 0 44 | T 26 |
| W 27 | 10 13 | 20 20 | 3 6  | 2 19  | 3 44 | 0 26  | 0 57 | 20 0  | 6 37 | 13 48 | 1 21 | 17 38 | 1 7  | 3 7  | 0 44 | W 27 |
| T 28 | 9 52  | 19 15 | 3 51 | 2 31  | 3 52 | 0s 5  | 0 55 | 20 2  | 6 35 | 13 48 | 1 21 | 17 39 | 1 7  | 3 6  | 0 44 | T 28 |
| F 29 | 9 31  | 17 20 | 4 26 | 2 40  | 3 59 | 0 36  | 0 52 | 20 4  | 6 32 | 13 48 | 1 22 | 17 40 | 1 7  | 3 6  | 0 44 | F 29 |
| S 30 | 9 9   | 14 39 | 4 50 | 2 46  | 4 5  | 1 7   | 0 50 | 20 6  | 6 30 | 13 47 | 1 22 | 17 41 | 1 7  | 3 5  | 0 44 | S 30 |
| S 31 | 8n48  | 11n20 | 5s 1 | 2s49  | 4s11 | 1s38  | 0n48 | 20s 8 | 6s27 | 13n47 | 1s22 | 17s43 | 1s 7 | 3n 4 | 0s44 | S 31 |

Julian Day Number = 2395144.5, Delta T = 8.09 sec  
 Ecliptic obliquity = 23°27'28", Nutation = 0°00'15", out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 22°35'02", Lahiri = 21°42'03"

# ASTRODIENST EPHEMERIS for the year 1845

## geocentric

SEPTEMBER 1845

00:00 UT

| Day  | Sid.t    | ☉                    | ☽                  | ♂                  | ♀                  | ♂                  | ♂                  | ♂                  | ♂                 | ♂                  | ♂                  | ♂                  | ♂                  | ♂                  | ♂                  | Day  |
|------|----------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------|
| M 1  | 22 40 4  | 8 <sup>h</sup> 22'13 | 28 <sup>h</sup> 02 | 27°R14             | 7 <sup>h</sup> 10  | 22°R14             | 10°R50             | 13°R56             | 9°R24             | 24°R 9             | 24°R43             | 19°R18             | 20 <sup>h</sup> 02 | 13 <sup>h</sup> 28 | 21 <sup>h</sup> 43 | M 1  |
| T 2  | 22 44 0  | 9°20'22              | 10 <sup>h</sup> 03 | 26 <sup>h</sup> 56 | 8°23               | 22 <sup>h</sup> 22 | 10 <sup>h</sup> 50 | 13 <sup>h</sup> 52 | 9 <sup>h</sup> 22 | 24 <sup>h</sup> 22 | 24 <sup>h</sup> 42 | 19 <sup>h</sup> 05 | 19°59              | 13°34              | 21°52              | T 2  |
| W 3  | 22 47 57 | 10°18'33             | 23°10              | 26°32              | 9°36               | 21°51              | 10°49              | 13°49              | 9°20              | 24° 6              | 24°42              | 18°54              | 19°55              | 13°41              | 22° 0              | W 3  |
| T 4  | 22 51 54 | 11°16'45             | 6 <sup>h</sup> 12  | 26° 1              | 10°49              | 21°41              | 10°48              | 13°45              | 9°18              | 24° 4              | 24°41              | 18°45              | 19°52              | 13°48              | 22° 9              | T 4  |
| F 5  | 22 55 50 | 12°14'59             | 19° 4              | 25°25              | 12° 2              | 21°31              | 10°47              | 13°41              | 9°16              | 24° 3              | 24°40              | 18°39              | 19°49              | 13°54              | 22°17              | F 5  |
| S 6  | 22 59 47 | 13°13'15             | 2 <sup>h</sup> 00  | 24°42              | 13°14              | 21°22              | 10°46              | 13°38              | 9°14              | 24° 1              | 24°39              | 18°36              | 19°46              | 14° 1              | 22°26              | S 6  |
| S 7  | 23 3 43  | 14°11'32             | 15°44              | 23°54              | 14°27              | 21°13              | 10°45              | 13°34              | 9°12              | 24° 0              | 24°38              | 18°D35             | 19°43              | 14° 8              | 22°35              | S 7  |
| M 8  | 23 7 40  | 15° 9'51             | 29°22              | 23° 1              | 15°40              | 21° 6              | 10°43              | 13°31              | 9°10              | 23°58              | 24°38              | 18°35              | 19°40              | 14°15              | 22°44              | M 8  |
| T 9  | 23 11 36 | 16° 8'12             | 13 <sup>h</sup> 12 | 22° 5              | 16°53              | 20°59              | 10°41              | 13°27              | 9° 8              | 23°57              | 24°37              | 18°R35             | 19°36              | 14°21              | 22°52              | T 9  |
| W10  | 23 15 33 | 17° 6'34             | 27°17              | 21° 5              | 18° 5              | 20°53              | 10°40              | 13°24              | 9° 6              | 23°55              | 24°36              | 18°35              | 19°33              | 14°28              | 23° 1              | W10  |
| T 11 | 23 19 29 | 18° 4'57             | 11 <sup>h</sup> 34 | 20° 4              | 19°18              | 20°47              | 10°37              | 13°20              | 9° 3              | 23°54              | 24°35              | 18°33              | 19°30              | 14°35              | 23°10              | T 11 |
| F 12 | 23 23 26 | 19° 3'22             | 26° 1              | 19° 2              | 20°31              | 20°43              | 10°35              | 13°17              | 9° 1              | 23°52              | 24°34              | 18°28              | 19°27              | 14°41              | 23°18              | F 12 |
| S 13 | 23 27 22 | 20° 1'49             | 10 <sup>h</sup> 35 | 18° 1              | 21°44              | 20°39              | 10°32              | 13°14              | 8°59              | 23°51              | 24°33              | 18°22              | 19°24              | 14°48              | 23°27              | S 13 |
| S 14 | 23 31 19 | 21° 0'17             | 25°10              | 17° 3              | 22°56              | 20°36              | 10°30              | 13°11              | 8°57              | 23°50              | 24°32              | 18°13              | 19°21              | 14°55              | 23°36              | S 14 |
| M15  | 23 35 16 | 21°58'47             | 9 <sup>h</sup> 39  | 16° 9              | 24° 9              | 20°34              | 10°27              | 13° 8              | 8°54              | 23°48              | 24°31              | 18° 4              | 19°17              | 15° 1              | 23°45              | M15  |
| T 16 | 23 39 12 | 22°57'19             | 23°55              | 15°20              | 25°21              | 20°32              | 10°24              | 13° 5              | 8°52              | 23°47              | 24°31              | 17°56              | 19°14              | 15° 8              | 23°53              | T 16 |
| W17  | 23 43 9  | 23°55'53             | 7 <sup>h</sup> 53  | 14°38              | 26°34              | 20°D31             | 10°20              | 13° 2              | 8°50              | 23°45              | 24°30              | 17°48              | 19°11              | 15°15              | 24° 2              | W17  |
| T 18 | 23 47 5  | 24°54'29             | 21°29              | 14° 3              | 27°46              | 20°32              | 10°17              | 13° 0              | 8°48              | 23°44              | 24°29              | 17°43              | 19° 8              | 15°22              | 24°11              | T 18 |
| F 19 | 23 51 2  | 25°53'07             | 4 <sup>h</sup> 41  | 13°37              | 28°59              | 20°33              | 10°13              | 12°57              | 8°45              | 23°43              | 24°28              | 17°40              | 19° 5              | 15°28              | 24°20              | F 19 |
| S 20 | 23 54 58 | 26°51'47             | 17°29              | 13°20              | 0 <sup>h</sup> 11  | 20°34              | 10° 9              | 12°54              | 8°43              | 23°41              | 24°27              | 17°D39             | 19° 1              | 15°35              | 24°28              | S 20 |
| S 21 | 23 58 55 | 27°50'29             | 29°58              | 13°D13             | 1°24               | 20°37              | 10° 5              | 12°52              | 8°40              | 23°40              | 24°26              | 17°40              | 18°58              | 15°42              | 24°37              | S 21 |
| M22  | 0 2 51   | 28°49'14             | 12 <sup>h</sup> 09 | 13°16              | 2°36               | 20°40              | 10° 1              | 12°49              | 8°38              | 23°39              | 24°25              | 17°41              | 18°55              | 15°48              | 24°46              | M22  |
| T 23 | 0 6 48   | 29°48'01             | 24° 9              | 13°29              | 3°48               | 20°44              | 9°56               | 12°47              | 8°36              | 23°38              | 24°24              | 17°42              | 18°52              | 15°55              | 24°55              | T 23 |
| W24  | 0 10 45  | 0 <sup>h</sup> 46'50 | 6 <sup>h</sup> 25  | 13°52              | 5° 1               | 20°49              | 9°52               | 12°45              | 8°33              | 23°36              | 24°23              | 17°R42             | 18°49              | 16° 2              | 25° 3              | W24  |
| T 25 | 0 14 41  | 1°45'42              | 17°52              | 14°24              | 6°13               | 20°55              | 9°47               | 12°42              | 8°31              | 23°35              | 24°22              | 17°41              | 18°46              | 16° 8              | 25°12              | T 25 |
| F 26 | 0 18 38  | 2°44'35              | 29°47              | 15° 5              | 7°25               | 21° 1              | 9°42               | 12°40              | 8°29              | 23°34              | 24°21              | 17°37              | 18°42              | 16°15              | 25°21              | F 26 |
| S 27 | 0 22 34  | 3°43'31              | 11 <sup>h</sup> 08 | 15°54              | 8°38               | 21° 8              | 9°37               | 12°38              | 8°26              | 23°33              | 24°19              | 17°32              | 18°39              | 16°22              | 25°30              | S 27 |
| S 28 | 0 26 31  | 4°42'29              | 24° 1              | 16°52              | 9°50               | 21°16              | 9°31               | 12°36              | 8°24              | 23°32              | 24°18              | 17°25              | 18°36              | 16°29              | 25°38              | S 28 |
| M29  | 0 30 27  | 5°41'29              | 6 <sup>h</sup> 07  | 17°57              | 11° 2              | 21°25              | 9°26               | 12°35              | 8°21              | 23°31              | 24°17              | 17°18              | 18°33              | 16°35              | 25°47              | M29  |
| T 30 | 0 34 24  | 6°40'32              | 19 <sup>h</sup> 08 | 19 <sup>h</sup> 08 | 12 <sup>h</sup> 14 | 21°34              | 9°20               | 12°33              | 8°19              | 23°29              | 24°16              | 17°10              | 18°30              | 16°32              | 25°56              | T 30 |

| Day  | ☉        | ☽     | ♂    | ♀    | ♂    | ♂     | ♂     | ♂     | ♂     | ♂     | ♂     | ♂     | ♂    | ♂    | ♂     | Day  |
|------|----------|-------|------|------|------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|------|
|      | decl     | decl  | lat  | decl | lat  | decl  | lat   | decl  | lat   | decl  | lat   | decl  | lat  | decl | lat   |      |
| M 1  | 8n26     | 7n30  | 4s58 | 2s48 | 4s15 | 2s 9  | 0n45  | 20s 9 | 6s24  | 13n47 | 1s22  | 17s44 | 1s 7 | 3n 3 | 0s44  | M 1  |
| T 2  | 8 4 3 18 | 4 41  | 2 44 | 4 18 | 2 40 | 0 43  | 20 10 | 6 21  | 13 47 | 1 22  | 17 45 | 1 7   | 3 3  | 0 44 | 13 56 | T 2  |
| W 3  | 7 42     | 1s 7  | 4 10 | 2 36 | 4 20 | 3 11  | 0 41  | 20 11 | 6 18  | 13 46 | 1 23  | 17 46 | 1 7  | 3 2  | 0 44  | W 3  |
| T 4  | 7 20     | 5 33  | 3 26 | 2 24 | 4 21 | 3 42  | 0 38  | 20 11 | 6 14  | 13 46 | 1 23  | 17 47 | 1 7  | 3 1  | 0 44  | T 4  |
| F 5  | 6 58     | 9 47  | 2 30 | 2 9  | 4 20 | 4 13  | 0 35  | 20 11 | 6 11  | 13 45 | 1 23  | 17 48 | 1 7  | 3 0  | 0 44  | F 5  |
| S 6  | 6 36     | 13 37 | 1 26 | 1 50 | 4 17 | 4 44  | 0 33  | 20 10 | 6 7   | 13 45 | 1 23  | 17 49 | 1 7  | 2 59 | 0 44  | S 6  |
| S 7  | 6 14     | 16 48 | 0 15 | 1 26 | 4 13 | 5 14  | 0 30  | 20 10 | 6 3   | 13 44 | 1 23  | 17 50 | 1 7  | 2 58 | 0 44  | S 7  |
| M 8  | 5 51     | 19 6  | 0n57 | 1 0  | 4 6  | 5 45  | 0 27  | 20 9  | 5 59  | 13 44 | 1 24  | 17 51 | 1 7  | 2 58 | 0 44  | M 8  |
| T 9  | 5 28     | 20 18 | 2 8  | 0 30 | 3 58 | 6 16  | 0 25  | 20 7  | 5 55  | 13 43 | 1 24  | 17 52 | 1 7  | 2 57 | 0 44  | T 9  |
| W10  | 5 6      | 20 15 | 3 11 | 0n 3 | 3 47 | 6 46  | 0 22  | 20 5  | 5 51  | 13 42 | 1 24  | 17 53 | 1 7  | 2 56 | 0 44  | W10  |
| T 11 | 4 43     | 18 54 | 4 4  | 0 38 | 3 35 | 7 16  | 0 19  | 20 3  | 5 47  | 13 41 | 1 24  | 17 54 | 1 7  | 2 55 | 0 44  | T 11 |
| F 12 | 4 20     | 16 20 | 4 42 | 1 15 | 3 21 | 7 46  | 0 16  | 20 1  | 5 43  | 13 40 | 1 24  | 17 55 | 1 7  | 2 54 | 0 44  | F 12 |
| S 13 | 3 57     | 12 45 | 5 2  | 1 53 | 3 6  | 8 16  | 0 13  | 19 58 | 5 39  | 13 39 | 1 25  | 17 56 | 1 7  | 2 53 | 0 44  | S 13 |
| S 14 | 3 34     | 8 23  | 5 3  | 2 32 | 2 49 | 8 46  | 0 10  | 19 55 | 5 35  | 13 38 | 1 25  | 17 57 | 1 7  | 2 52 | 0 44  | S 14 |
| M15  | 3 11     | 3 34  | 4 44 | 3 9  | 2 30 | 9 16  | 0 7   | 19 52 | 5 30  | 13 37 | 1 25  | 17 58 | 1 7  | 2 51 | 0 44  | M15  |
| T 16 | 2 48     | 1n22  | 4 7  | 3 46 | 2 11 | 9 45  | 0 4   | 19 48 | 5 26  | 13 36 | 1 25  | 17 59 | 1 7  | 2 50 | 0 44  | T 16 |
| W17  | 2 25     | 6 9   | 3 17 | 4 20 | 1 52 | 10 14 | 0 1   | 19 44 | 5 21  | 13 35 | 1 25  | 17 59 | 1 7  | 2 50 | 0 44  | W17  |
| T 18 | 2 1      | 10 29 | 2 16 | 4 52 | 1 32 | 10 43 | 0s 2  | 19 40 | 5 17  | 13 34 | 1 25  | 18 0  | 1 7  | 2 49 | 0 44  | T 18 |
| F 19 | 1 38     | 14 11 | 1 9  | 5 21 | 1 12 | 11 12 | 0 5   | 19 35 | 5 12  | 13 32 | 1 26  | 18 1  | 1 7  | 2 48 | 0 44  | F 19 |
| S 20 | 1 15     | 17 5  | 0 1  | 5 45 | 0 52 | 11 41 | 0 8   | 19 30 | 5 8   | 13 31 | 1 26  | 18 2  | 1 7  | 2 47 | 0 44  | S 20 |
| S 21 | 0 52     | 19 5  | 1s 6 | 6 5  | 0 33 | 12 9  | 0 12  | 19 25 | 5 3   | 13 30 | 1 26  | 18 2  | 1 7  | 2 46 | 0 44  | S 21 |
| M22  | 0 28     | 20 9  | 2 8  | 6 21 | 0 15 | 12 37 | 0 15  | 19 20 | 4 59  | 13 28 | 1 26  | 18 3  | 1 7  | 2 45 | 0 44  | M22  |
| T 23 | 0 5      | 20 16 | 3 4  | 6 32 | 0n 3 | 13 5  | 0 18  | 19 14 | 4 54  | 13 27 | 1 26  | 18 4  | 1 7  | 2 44 | 0 44  | T 23 |
| W24  | 0s19     | 19 28 | 3 51 | 6 39 | 0 19 | 13 32 | 0 21  | 19 8  | 4 50  | 13 25 | 1 26  | 18 4  | 1 7  | 2 43 | 0 44  | W24  |
| T 25 | 0 42     | 17 50 | 4 28 | 6 40 | 0 34 | 13 59 | 0 24  | 19 2  | 4 45  | 13 23 | 1 26  | 18 5  | 1 7  | 2 42 | 0 44  | T 25 |
| F 26 | 1 6      | 15 25 | 4 54 | 6 37 | 0 48 | 14 26 | 0 28  | 18 56 | 4 41  | 13 22 | 1 27  | 18 6  | 1 7  | 2 41 | 0 44  | F 26 |
| S 27 | 1 29     | 12 20 | 5 7  | 6 29 | 1 0  | 14 53 | 0 31  | 18 49 | 4 36  | 13 20 | 1 27  | 18 6  | 1 7  | 2 40 | 0 44  | S 27 |
| S 28 | 1 52     | 8 42  | 5 7  | 6 17 | 1 12 | 15 19 | 0 34  | 18 42 | 4 31  | 13 18 | 1 27  | 18 7  | 1 7  | 2 39 | 0 44  | S 28 |
| M29  | 2 16     | 4 38  | 4 52 | 6 1  | 1 21 | 15 45 | 0 37  | 18 35 | 4 27  | 13 16 | 1 27  | 18 7  | 1 7  | 2 38 | 0 44  | M29  |
| T 30 | 2s39     | 0n16  | 4s23 | 5n41 | 1n30 | 16s10 | 0s41  | 18s28 | 4s22  | 13n14 | 1s27  | 18s 8 | 1s 7 | 2n37 | 0s44  | T 30 |

Julian Day Number = 2395175.5, Delta T = 8.10 sec  
 Ecliptic obliquity = 23°27'28, Nutation = 0°00'14, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 22°35'07, Lahiri = 21°42'07



# ASTRODIENST EPHEMERIS for the year 1845

## geocentric

NOVEMBER 1845

00:00 UT

| Day  | Sid.t   | ☉        | ☽      | ♀     | ♂     | ♂     | ♂     | ♂     | ♂     | ♂      | ♂      | ♂      | ♂     | ♂     | ♂    | Day  |
|------|---------|----------|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|-------|------|------|
| S 1  | 2 40 34 | 8♉27°09  | 21♉40  | 11♉40 | 20♉21 | 1♉53  | 5°R24 | 12♉30 | 7°R 6 | 23°R 9 | 23°R40 | 16°D32 | 16♉48 | 20♉16 | 0♉20 | S 1  |
| S 2  | 2 44 30 | 9°27'17  | 5♉57   | 13°16 | 21°31 | 2°20  | 5♉16  | 12°32 | 7°R 4 | 23°R 9 | 23°R39 | 16♉32  | 16°45 | 20°23 | 0°28 | S 2  |
| M 3  | 2 48 27 | 10°27'28 | 20°20  | 14°51 | 22°42 | 2°48  | 5° 8  | 12°33 | 7° 2  | 23° 9  | 23°38  | 16°33  | 16°42 | 20°30 | 0°36 | M 3  |
| T 4  | 2 52 23 | 11°27'40 | 4♉46   | 16°27 | 23°52 | 3°16  | 5° 0  | 12°35 | 7° 0  | 23°D 9 | 23°37  | 16°33  | 16°38 | 20°37 | 0°43 | T 4  |
| W 5  | 2 56 20 | 12°27'53 | 19° 9  | 18° 1 | 25° 2 | 3°44  | 4°52  | 12°37 | 6°59  | 23° 9  | 23°36  | 16°34  | 16°35 | 20°43 | 0°51 | W 5  |
| T 6  | 3 0 16  | 13°28'08 | 3♉27   | 19°36 | 26°13 | 4°12  | 4°44  | 12°39 | 6°57  | 23° 9  | 23°35  | 16°34  | 16°32 | 20°50 | 0°58 | T 6  |
| F 7  | 3 4 13  | 14°28'24 | 17°37  | 21°10 | 27°23 | 4°41  | 4°36  | 12°41 | 6°55  | 23° 9  | 23°34  | 16°R34 | 16°29 | 20°57 | 1° 5 | F 7  |
| S 8  | 3 8 9   | 15°28'42 | 1♉35   | 22°44 | 28°33 | 5°10  | 4°28  | 12°43 | 6°53  | 23° 9  | 23°33  | 16°34  | 16°26 | 21° 3 | 1°13 | S 8  |
| S 9  | 3 12 6  | 16°29'01 | 15°23  | 24°17 | 29°43 | 5°39  | 4°20  | 12°45 | 6°52  | 23°10  | 23°32  | 16°D34 | 16°23 | 21°10 | 1°20 | S 9  |
| M10  | 3 16 3  | 17°29'22 | 28°57  | 25°50 | 0♉53  | 6° 9  | 4°12  | 12°48 | 6°50  | 23°10  | 23°31  | 16°34  | 16°19 | 21°17 | 1°27 | M10  |
| T 11 | 3 19 59 | 18°29'44 | 12°Y19 | 27°23 | 2° 2  | 6°39  | 4° 5  | 12°50 | 6°48  | 23°10  | 23°30  | 16°34  | 16°16 | 21°24 | 1°34 | T 11 |
| W12  | 3 23 56 | 19°30'07 | 25°27  | 28°55 | 3°12  | 7° 9  | 3°57  | 12°53 | 6°47  | 23°10  | 23°29  | 16°35  | 16°13 | 21°30 | 1°41 | W12  |
| T 13 | 3 27 52 | 20°30'32 | 8♉23   | 0♉27  | 4°22  | 7°40  | 3°50  | 12°56 | 6°45  | 23°10  | 23°28  | 16°35  | 16°10 | 21°37 | 1°48 | T 13 |
| F 14 | 3 31 49 | 21°30'59 | 21° 4  | 1°59  | 5°31  | 8°11  | 3°42  | 12°58 | 6°44  | 23°11  | 23°27  | 16°R35 | 16° 7 | 21°44 | 1°55 | F 14 |
| S 15 | 3 35 45 | 22°31'27 | 3♉33   | 3°31  | 6°40  | 8°42  | 3°35  | 13° 1 | 6°42  | 23°11  | 23°26  | 16°34  | 16° 4 | 21°50 | 2° 2 | S 15 |
| S 16 | 3 39 42 | 23°31'57 | 15°51  | 5° 2  | 7°50  | 9°13  | 3°28  | 13° 4 | 6°41  | 23°12  | 23°25  | 16°34  | 16° 0 | 21°57 | 2° 9 | S 16 |
| M17  | 3 43 38 | 24°32'29 | 27°57  | 6°33  | 8°59  | 9°44  | 3°21  | 13° 7 | 6°39  | 23°12  | 23°24  | 16°33  | 15°57 | 22° 4 | 2°15 | M17  |
| T 18 | 3 47 35 | 25°33'02 | 9♉56   | 8° 4  | 10° 8 | 10°16 | 3°14  | 13°10 | 6°38  | 23°12  | 23°23  | 16°32  | 15°54 | 22°11 | 2°22 | T 18 |
| W19  | 3 51 32 | 26°33'37 | 21°49  | 9°35  | 11°16 | 10°48 | 3° 7  | 13°13 | 6°37  | 23°13  | 23°22  | 16°30  | 15°51 | 22°17 | 2°28 | W19  |
| T 20 | 3 55 28 | 27°34'14 | 3♉40   | 11° 5 | 12°25 | 11°20 | 3° 0  | 13°17 | 6°35  | 23°13  | 23°21  | 16°29  | 15°48 | 22°24 | 2°35 | T 20 |
| F 21 | 3 59 25 | 28°34'52 | 15°33  | 12°35 | 13°34 | 11°52 | 2°53  | 13°20 | 6°34  | 23°14  | 23°20  | 16°28  | 15°44 | 22°31 | 2°41 | F 21 |
| S 22 | 4 3 21  | 29°35'32 | 27°33  | 14° 5 | 14°42 | 12°25 | 2°47  | 13°24 | 6°33  | 23°14  | 23°19  | 16°D28 | 15°41 | 22°37 | 2°48 | S 22 |
| S 23 | 4 7 18  | 0♉36°13  | 9♉43   | 15°34 | 15°50 | 12°58 | 2°41  | 13°27 | 6°32  | 23°15  | 23°18  | 16°28  | 15°38 | 22°44 | 2°54 | S 23 |
| M24  | 4 11 14 | 1°36'56  | 22°10  | 17° 3 | 16°59 | 13°31 | 2°34  | 13°31 | 6°31  | 23°16  | 23°17  | 16°29  | 15°35 | 22°51 | 3° 0 | M24  |
| T 25 | 4 15 11 | 2°37'41  | 4♉56   | 18°31 | 18° 7 | 14° 4 | 2°28  | 13°35 | 6°30  | 23°16  | 23°16  | 16°30  | 15°32 | 22°58 | 3° 6 | T 25 |
| W26  | 4 19 7  | 3°38'27  | 18° 6  | 19°59 | 19°14 | 14°37 | 2°22  | 13°38 | 6°29  | 23°17  | 23°16  | 16°31  | 15°29 | 23° 4 | 3°12 | W26  |
| T 27 | 4 23 4  | 4°39'15  | 1♉40   | 21°27 | 20°22 | 15°11 | 2°17  | 13°42 | 6°28  | 23°18  | 23°15  | 16°32  | 15°25 | 23°11 | 3°18 | T 27 |
| F 28 | 4 27 1  | 5°40'04  | 15°40  | 22°53 | 21°30 | 15°44 | 2°11  | 13°46 | 6°27  | 23°19  | 23°14  | 16°R33 | 15°22 | 23°18 | 3°24 | F 28 |
| S 29 | 4 30 57 | 6°40'55  | 0♉ 3   | 24°19 | 22°37 | 16°18 | 2° 6  | 13°50 | 6°26  | 23°19  | 23°13  | 16°32  | 15°19 | 23°24 | 3°30 | S 29 |
| S 30 | 4 34 54 | 7♉41°47  | 14♉44  | 25♉45 | 23♉44 | 16♉52 | 2♉ 0  | 13♉55 | 6°Y25 | 23♉20  | 23°Y12 | 16♉31  | 15♉16 | 23♉31 | 3♉35 | S 30 |

| Day  | ☉     | ☾     |      | ♀     |      | ♀     |      | ♂     |      | ♂     |      | ♂     |      | ♂    |      | ♂     |      | ♂    |       | ♂     |       | ♂     |      | ♂    |     |
|------|-------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|------|------|-------|------|------|-------|-------|-------|-------|------|------|-----|
|      | decl  | decl  | lat  | decl  | lat  | decl  | lat  | decl  | lat  | decl  | lat  | decl  | lat  | decl | lat  | decl  | lat  | decl | lat   | decl  | lat   | decl  | lat  | decl | lat |
| S 1  | 14s20 | 17s44 | 0n28 | 15s25 | 0s 5 | 25s21 | 2s15 | 12s55 | 2s16 | 11n57 | 1s27 | 18s 7 | 1s 6 | 2n 9 | 0s44 | 14s15 | 0s28 | 7s 0 | 17s24 | 16s48 | 16s52 | 17n22 | 3s18 | 3s27 |     |
| S 2  | 14 39 | 19 35 | 1 46 | 16 1  | 0 12 | 25 28 | 2 17 | 12 43 | 2 13 | 11 55 | 1 27 | 18 7  | 1 6  | 2 8  | 0 44 | 14 15 | 0 28 | 7 0  | 17 24 | 16 48 | 16 51 | 17 21 | 3 21 | 3 27 |     |
| M 3  | 14 58 | 20 10 | 2 57 | 16 36 | 0 18 | 25 34 | 2 19 | 12 30 | 2 9  | 11 52 | 1 27 | 18 6  | 1 6  | 2 8  | 0 44 | 14 15 | 0 28 | 7 1  | 17 24 | 16 48 | 16 50 | 17 19 | 3 24 | 3 27 |     |
| T 4  | 15 17 | 19 26 | 3 57 | 17 10 | 0 25 | 25 40 | 2 21 | 12 17 | 2 6  | 11 50 | 1 27 | 18 6  | 1 6  | 2 7  | 0 44 | 14 15 | 0 28 | 7 1  | 17 24 | 16 48 | 16 49 | 17 18 | 3 27 | 3 27 |     |
| W 5  | 15 35 | 17 26 | 4 42 | 17 43 | 0 32 | 25 45 | 2 23 | 12 4  | 2 3  | 11 47 | 1 27 | 18 5  | 1 6  | 2 6  | 0 44 | 14 15 | 0 28 | 7 1  | 17 24 | 16 48 | 16 48 | 17 17 | 3 30 | 3 27 |     |
| T 6  | 15 54 | 14 23 | 5 9  | 18 16 | 0 38 | 25 49 | 2 25 | 11 50 | 2 0  | 11 45 | 1 27 | 18 5  | 1 6  | 2 5  | 0 44 | 14 15 | 0 28 | 7 1  | 17 24 | 16 48 | 16 48 | 17 15 | 3 33 | 3 27 |     |
| F 7  | 16 12 | 10 32 | 5 17 | 18 47 | 0 45 | 25 52 | 2 26 | 11 37 | 1 57 | 11 42 | 1 27 | 18 4  | 1 6  | 2 5  | 0 44 | 14 15 | 0 28 | 7 2  | 17 24 | 16 48 | 16 47 | 17 14 | 3 35 | 3 27 |     |
| S 8  | 16 29 | 6 8   | 5 7  | 19 17 | 0 51 | 25 55 | 2 28 | 11 23 | 1 54 | 11 40 | 1 27 | 18 3  | 1 6  | 2 4  | 0 44 | 14 15 | 0 28 | 7 2  | 17 23 | 16 48 | 16 46 | 17 13 | 3 38 | 3 27 |     |
| S 9  | 16 47 | 1 29  | 4 38 | 19 47 | 0 57 | 25 57 | 2 30 | 11 10 | 1 51 | 11 37 | 1 26 | 18 3  | 1 6  | 2 3  | 0 44 | 14 15 | 0 28 | 7 2  | 17 23 | 16 48 | 16 45 | 17 11 | 3 41 | 3 27 |     |
| M10  | 17 4  | 3n10  | 3 55 | 20 15 | 1 3  | 25 58 | 2 31 | 10 56 | 1 48 | 11 35 | 1 26 | 18 2  | 1 6  | 2 3  | 0 44 | 14 15 | 0 28 | 7 2  | 17 23 | 16 48 | 16 44 | 17 10 | 3 44 | 3 27 |     |
| T 11 | 17 21 | 7 37  | 2 59 | 20 43 | 1 9  | 25 59 | 2 33 | 10 42 | 1 45 | 11 32 | 1 26 | 18 1  | 1 6  | 2 2  | 0 44 | 14 15 | 0 28 | 7 3  | 17 23 | 16 48 | 16 43 | 17 8  | 3 47 | 3 27 |     |
| W12  | 17 37 | 11 38 | 1 55 | 21 9  | 1 15 | 25 59 | 2 34 | 10 28 | 1 42 | 11 30 | 1 26 | 18 1  | 1 6  | 2 2  | 0 43 | 14 14 | 0 28 | 7 3  | 17 23 | 16 48 | 16 42 | 17 7  | 3 50 | 3 27 |     |
| T 13 | 17 53 | 15 1  | 0 45 | 21 35 | 1 21 | 25 58 | 2 35 | 10 14 | 1 39 | 11 27 | 1 26 | 18 0  | 1 6  | 2 1  | 0 43 | 14 14 | 0 28 | 7 3  | 17 23 | 16 48 | 16 41 | 17 6  | 3 53 | 3 27 |     |
| F 14 | 18 9  | 17 38 | 0s25 | 21 59 | 1 27 | 25 57 | 2 36 | 10 0  | 1 37 | 11 25 | 1 26 | 17 59 | 1 6  | 2 0  | 0 43 | 14 14 | 0 28 | 7 3  | 17 22 | 16 48 | 16 40 | 17 4  | 3 55 | 3 27 |     |
| S 15 | 18 25 | 19 22 | 1 33 | 22 23 | 1 32 | 25 54 | 2 37 | 9 46  | 1 34 | 11 23 | 1 25 | 17 58 | 1 6  | 2 0  | 0 43 | 14 14 | 0 28 | 7 3  | 17 22 | 16 48 | 16 39 | 17 3  | 3 58 | 3 27 |     |
| S 16 | 18 40 | 20 8  | 2 35 | 22 45 | 1 37 | 25 51 | 2 38 | 9 32  | 1 31 | 11 20 | 1 25 | 17 57 | 1 6  | 1 59 | 0 43 | 14 14 | 0 28 | 7 3  | 17 22 | 16 48 | 16 38 | 17 1  | 4 1  | 3 27 |     |
| M17  | 18 55 | 19 57 | 3 30 | 23 6  | 1 42 | 25 48 | 2 39 | 9 18  | 1 29 | 11 18 | 1 25 | 17 56 | 1 6  | 1 59 | 0 43 | 14 14 | 0 28 | 7 4  | 17 22 | 16 48 | 16 38 | 17 0  | 4 3  | 3 27 |     |
| T 18 | 19 10 | 18 51 | 4 14 | 23 26 | 1 47 | 25 43 | 2 40 | 9 3   | 1 26 | 11 16 | 1 25 | 17 55 | 1 5  | 1 58 | 0 43 | 14 14 | 0 28 | 7 4  | 17 22 | 16 47 | 16 37 | 16 59 | 4 6  | 3 27 |     |
| W19  | 19 24 | 16 57 | 4 48 | 23 45 | 1 52 | 25 38 | 2 40 | 8 49  | 1 23 | 11 14 | 1 25 | 17 54 | 1 5  | 1 58 | 0 43 | 14 14 | 0 28 | 7 4  | 17 21 | 16 47 | 16 36 | 16 57 | 4 9  | 3 27 |     |
| T 20 | 19 38 | 14 21 | 5 9  | 24 2  | 1 56 | 25 33 | 2 41 | 8 34  | 1 21 | 11 12 | 1 24 | 17 53 | 1 5  | 1 57 | 0 43 | 14 13 | 0 28 | 7 4  | 17 21 | 16 47 | 16 35 | 16 56 | 4 11 | 3 27 |     |
| F 21 | 19 52 | 11 9  | 5 16 | 24 19 | 2 0  | 25 26 | 2 41 | 8 19  | 1 18 | 11 10 | 1 24 | 17 52 | 1 5  | 1 57 | 0 43 | 14 13 | 0 28 | 7 4  | 17 21 | 16 46 | 16 34 | 16 54 | 4 14 | 3 27 |     |
| S 22 | 20 5  | 7 28  | 5 11 | 24 34 | 2 4  | 25 19 | 2 41 | 8 5   | 1 16 | 11 8  | 1 24 | 17 51 | 1 5  | 1 56 | 0 43 | 14 13 | 0 28 | 7 4  | 17 21 | 16 46 | 16 33 | 16 53 | 4 16 | 3 27 |     |
| S 23 | 20 18 | 3 26  | 4 51 | 24 48 | 2 8  | 25 11 | 2 41 | 7 50  | 1 13 | 11 6  | 1 24 | 17 50 | 1 5  | 1 56 | 0 43 | 14 13 | 0 28 | 7 4  | 17 20 | 16 46 | 16 32 | 16 52 | 4 19 | 3 27 |     |
| M24  | 20 30 | 0s50  | 4 17 | 25 0  | 2 11 | 25 3  | 2 41 | 7 35  | 1 11 | 11 4  | 1 24 | 17 49 | 1 5  | 1 56 | 0 43 | 14 13 | 0 28 | 7 4  | 17 20 | 16 47 | 16 31 | 16 50 | 4 22 | 3 27 |     |
| T 25 | 20 42 | 5 11  | 3 30 | 25 11 | 2 14 | 24 54 | 2 41 | 7 20  | 1 9  | 11 2  | 1 23 | 17 48 | 1 5  | 1 55 | 0 43 | 14 12 | 0 28 | 7 4  | 17 20 | 16 47 | 16 30 | 16 49 | 4 24 | 3 27 |     |
| W26  | 20 54 | 9 25  | 2 31 | 25 21 | 2 17 | 24 44 | 2 41 | 7 5   | 1 6  | 11 0  | 1 23 | 17 47 | 1 5  | 1 55 | 0 43 | 14 12 | 0 28 | 7 5  | 17 20 | 16 47 | 16 29 | 16 47 | 4 26 | 3 27 |     |
| T 27 | 21 5  | 13 20 | 1 21 | 25 29 | 2 19 | 24 33 | 2 41 | 6 50  | 1 4  | 10 59 | 1 23 | 17 46 | 1 5  | 1 55 | 0 43 | 14 12 | 0 28 | 7 5  | 17 20 | 16 48 | 16 28 | 16 46 | 4 29 | 3 27 |     |
| F 28 | 21 16 | 16 37 | 0 5  | 25 37 | 2 21 | 24 22 | 2 40 | 6 35  | 1 2  | 10 57 | 1 23 | 17 45 | 1 5  | 1 54 | 0 43 | 14 12 | 0 28 | 7 5  | 17 19 | 16 48 | 16 27 | 16 45 | 4 31 | 3 27 |     |
| S 29 | 21 26 | 18 58 | 1n14 | 25 42 | 2 22 | 24 11 | 2 39 | 6 19  | 1 0  | 10 55 | 1 22 | 17 43 | 1 5  | 1 54 | 0 43 | 14 11 | 0 28 | 7 5  | 17 19 | 16 48 | 16 26 | 16 43 | 4 34 | 3 27 |     |
| S 30 | 21s37 | 20s 7 | 2n29 | 25s46 | 2s23 | 23s58 | 2s39 | 6s 4  | 0s57 | 10n54 | 1s22 | 17s42 | 1s 5 | 1n54 | 0s43 | 14s11 | 0s28 | 7s 5 | 17s19 | 16s47 | 16s26 | 16n42 | 4s36 | 3s27 |     |

# ASTRODIENST EPHEMERIS for the year 1845

## geocentric

DECEMBER 1845

00:00 UT

| Day  | Sid.t   | ☉        | ☽       | ♀      | ♂     | ♂     | ♂     | ♂     | ♂     | ♂     | ♂      | ♂      | ♂      | ♂     | ♂    | Day  |
|------|---------|----------|---------|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|------|------|
| M 1  | 4 38 50 | 8°42'40  | 29°36   | 27°9   | 24°51 | 17°27 | 1°R55 | 13°59 | 6°R24 | 23°21 | 23°R12 | 16°R28 | 15°M13 | 23°38 | 3°41 | M 1  |
| T 2  | 4 42 47 | 9°43'34  | 14°30   | 28°32  | 25°58 | 18°1  | 1°B50 | 14°3  | 6°Y24 | 23°22 | 23°Y11 | 16°M25 | 15°9   | 23°45 | 3°47 | T 2  |
| W 3  | 4 46 43 | 10°44'29 | 29°20   | 29°54  | 27°5  | 18°36 | 1°46  | 14°7  | 6°23  | 23°23 | 23°10  | 16°22  | 15°6   | 23°51 | 3°52 | W 3  |
| T 4  | 4 50 40 | 11°45'24 | 13°56   | 1°314  | 28°11 | 19°10 | 1°41  | 14°12 | 6°22  | 23°24 | 23°10  | 16°19  | 15°3   | 23°58 | 3°57 | T 4  |
| F 5  | 4 54 36 | 12°46'21 | 28°16   | 2°33   | 29°17 | 19°45 | 1°37  | 14°17 | 6°22  | 23°25 | 23°9   | 16°17  | 15°0   | 24°5  | 4°2  | F 5  |
| S 6  | 4 58 33 | 13°47'18 | 12°15   | 3°49   | 0°23  | 20°20 | 1°32  | 14°21 | 6°21  | 23°26 | 23°8   | 16°D16 | 14°57  | 24°11 | 4°8  | S 6  |
| S 7  | 5 2 30  | 14°48'15 | 25°54   | 5°3    | 1°29  | 20°55 | 1°28  | 14°26 | 6°21  | 23°27 | 23°8   | 16°16  | 14°54  | 24°18 | 4°13 | S 7  |
| M 8  | 5 6 26  | 15°49'13 | 9°Y14   | 6°15   | 2°34  | 21°31 | 1°25  | 14°31 | 6°20  | 23°28 | 23°7   | 16°18  | 14°50  | 24°25 | 4°18 | M 8  |
| T 9  | 5 10 23 | 16°50'12 | 22°16   | 7°23   | 3°40  | 22°6  | 1°21  | 14°36 | 6°20  | 23°29 | 23°6   | 16°20  | 14°47  | 24°32 | 4°22 | T 9  |
| W10  | 5 14 19 | 17°51'12 | 5°3     | 8°27   | 4°44  | 22°42 | 1°18  | 14°40 | 6°20  | 23°31 | 23°6   | 16°21  | 14°44  | 24°38 | 4°27 | W10  |
| T 11 | 5 18 16 | 18°52'12 | 17°37   | 9°28   | 5°49  | 23°17 | 1°14  | 14°45 | 6°19  | 23°32 | 23°5   | 16°R22 | 14°41  | 24°45 | 4°32 | T 11 |
| F 12 | 5 22 12 | 19°53'12 | 0°II 0  | 10°23  | 6°54  | 23°53 | 1°11  | 14°51 | 6°19  | 23°33 | 23°5   | 16°21  | 14°38  | 24°52 | 4°36 | F 12 |
| S 13 | 5 26 9  | 20°54'14 | 12°15   | 11°13  | 7°58  | 24°29 | 1°8   | 14°56 | 6°19  | 23°34 | 23°4   | 16°18  | 14°35  | 24°58 | 4°41 | S 13 |
| S 14 | 5 30 5  | 21°55'16 | 24°21   | 11°57  | 9°2   | 25°5  | 1°6   | 15°1  | 6°19  | 23°36 | 23°3   | 16°13  | 14°31  | 25°5  | 4°45 | S 14 |
| M15  | 5 34 2  | 22°56'19 | 6°21    | 12°33  | 10°5  | 25°41 | 1°3   | 15°6  | 6°19  | 23°37 | 23°3   | 16°7   | 14°28  | 25°12 | 4°49 | M15  |
| T 16 | 5 37 59 | 23°57'22 | 18°17   | 13°1   | 11°8  | 26°17 | 1°1   | 15°11 | 6°D19 | 23°38 | 23°2   | 16°0   | 14°25  | 25°19 | 4°54 | T 16 |
| W17  | 5 41 55 | 24°58'27 | 0°II 9  | 13°21  | 12°11 | 26°54 | 0°59  | 15°17 | 6°19  | 23°40 | 23°2   | 15°52  | 14°22  | 25°25 | 4°58 | W17  |
| T 18 | 5 45 52 | 25°59'32 | 12°0    | 13°R30 | 13°14 | 27°30 | 0°57  | 15°22 | 6°19  | 23°41 | 23°2   | 15°45  | 14°19  | 25°32 | 5°2  | T 18 |
| F 19 | 5 49 48 | 27°0'37  | 23°53   | 13°29  | 14°16 | 28°6  | 0°56  | 15°28 | 6°19  | 23°42 | 23°1   | 15°38  | 14°15  | 25°39 | 5°5  | F 19 |
| S 20 | 5 53 45 | 28°1'43  | 5°II 51 | 13°17  | 15°17 | 28°43 | 0°54  | 15°33 | 6°19  | 23°44 | 23°1   | 15°34  | 14°12  | 25°45 | 5°9  | S 20 |
| S 21 | 5 57 41 | 29°2'50  | 17°58   | 12°53  | 16°19 | 29°20 | 0°53  | 15°39 | 6°19  | 23°45 | 23°0   | 15°31  | 14°9   | 25°52 | 5°13 | S 21 |
| M22  | 6 1 38  | 0°3'58   | 0°II 19 | 12°18  | 17°20 | 29°56 | 0°52  | 15°45 | 6°20  | 23°47 | 23°0   | 15°D30 | 14°6   | 25°59 | 5°16 | M22  |
| T 23 | 6 5 34  | 1°5'06   | 12°59   | 11°31  | 18°20 | 0°Y33 | 0°51  | 15°51 | 6°20  | 23°48 | 23°0   | 15°31  | 14°3   | 26°6  | 5°20 | T 23 |
| W24  | 6 9 31  | 2°6'15   | 26°1    | 10°33  | 19°21 | 1°10  | 0°51  | 15°56 | 6°20  | 23°50 | 22°59  | 15°32  | 14°0   | 26°12 | 5°23 | W24  |
| T 25 | 6 13 28 | 3°7'25   | 9°II 30 | 9°26   | 20°20 | 1°47  | 0°50  | 16°2  | 6°21  | 23°51 | 22°59  | 15°R33 | 13°56  | 26°19 | 5°26 | T 25 |
| F 26 | 6 17 24 | 4°8'35   | 23°27   | 8°12   | 21°20 | 2°24  | 0°D50 | 16°8  | 6°21  | 23°53 | 22°59  | 15°33  | 13°53  | 26°26 | 5°29 | F 26 |
| S 27 | 6 21 21 | 5°9'46   | 7°II 53 | 6°52   | 22°19 | 3°2   | 0°50  | 16°14 | 6°22  | 23°55 | 22°59  | 15°31  | 13°50  | 26°32 | 5°32 | S 27 |
| S 28 | 6 25 17 | 6°10'57  | 22°43   | 5°31   | 23°17 | 3°39  | 0°51  | 16°20 | 6°23  | 23°56 | 22°58  | 15°27  | 13°47  | 26°39 | 5°35 | S 28 |
| M29  | 6 29 14 | 7°12'08  | 7°352   | 4°9    | 24°15 | 4°16  | 0°51  | 16°26 | 6°23  | 23°58 | 22°58  | 15°20  | 13°44  | 26°46 | 5°37 | M29  |
| T 30 | 6 33 10 | 8°13'19  | 23°8    | 2°51   | 25°12 | 4°54  | 0°52  | 16°33 | 6°24  | 24°0  | 22°58  | 15°12  | 13°41  | 26°53 | 5°40 | T 30 |
| W31  | 6 37 7  | 9°14'30  | 8°21    | 1°38   | 26°29 | 5°Y31 | 0°53  | 16°39 | 6°Y25 | 24°1  | 22°Y58 | 15°M 3 | 13°M37 | 26°59 | 5°43 | W31  |

| Day  | ☉     | ☽     | ♀    | ♂     | ♂    | ♂     | ♂    | ♂    | ♂    | ♂     | ♂    | ♂     | ♂   | ♂    | ♂    | ♂     |
|------|-------|-------|------|-------|------|-------|------|------|------|-------|------|-------|-----|------|------|-------|
|      | decl  | decl  | lat  | decl  | lat  | decl  | lat  | decl | lat  | decl  | lat  | decl  | lat | decl | lat  | lat   |
| M 1  | 21s46 | 19s52 | 3n35 | 25s49 | 2s24 | 23s45 | 2s38 | 5s49 | 0s55 | 10n52 | 1s22 | 17s41 | 1s5 | 1n53 | 0s43 | 14s11 |
| T 2  | 21s56 | 18s15 | 4s27 | 25s50 | 2s23 | 23s32 | 2s37 | 5s33 | 0s53 | 10s51 | 1s22 | 17s40 | 1s5 | 1s53 | 0s43 | 14s10 |
| W 3  | 22s4  | 15s24 | 5s0  | 25s50 | 2s23 | 23s18 | 2s35 | 5s18 | 0s51 | 10s49 | 1s21 | 17s38 | 1s5 | 1s53 | 0s43 | 14s10 |
| T 4  | 22s13 | 11s39 | 5s14 | 25s49 | 2s22 | 23s3  | 2s34 | 5s2  | 0s49 | 10s48 | 1s21 | 17s37 | 1s5 | 1s53 | 0s43 | 14s10 |
| F 5  | 22s21 | 7s17  | 5s7  | 25s46 | 2s20 | 22s48 | 2s33 | 4s47 | 0s47 | 10s47 | 1s21 | 17s36 | 1s5 | 1s52 | 0s43 | 14s9  |
| S 6  | 22s28 | 2s37  | 4s42 | 25s41 | 2s17 | 22s32 | 2s31 | 4s31 | 0s45 | 10s46 | 1s20 | 17s34 | 1s5 | 1s52 | 0s43 | 14s9  |
| S 7  | 22s35 | 2n5   | 4s2  | 25s35 | 2s14 | 22s16 | 2s29 | 4s15 | 0s43 | 10s45 | 1s20 | 17s33 | 1s5 | 1s52 | 0s43 | 14s9  |
| M 8  | 22s42 | 6s34  | 3s10 | 25s28 | 2s10 | 21s59 | 2s27 | 4s0  | 0s41 | 10s43 | 1s20 | 17s32 | 1s5 | 1s52 | 0s43 | 14s8  |
| T 9  | 22s48 | 10s39 | 2s8  | 25s20 | 2s5  | 21s42 | 2s25 | 3s44 | 0s39 | 10s42 | 1s20 | 17s30 | 1s5 | 1s52 | 0s43 | 14s8  |
| W10  | 22s54 | 14s11 | 1s2  | 25s10 | 1s59 | 21s24 | 2s23 | 3s28 | 0s37 | 10s42 | 1s19 | 17s29 | 1s5 | 1s52 | 0s42 | 14s8  |
| T 11 | 22s59 | 16s59 | 0s7  | 24s59 | 1s52 | 21s6  | 2s21 | 3s12 | 0s35 | 10s41 | 1s19 | 17s27 | 1s5 | 1s52 | 0s42 | 14s7  |
| F 12 | 23s4  | 18s58 | 1s14 | 24s47 | 1s44 | 20s47 | 2s18 | 2s56 | 0s33 | 10s40 | 1s19 | 17s26 | 1s5 | 1s52 | 0s42 | 14s7  |
| S 13 | 23s9  | 20s1  | 2s17 | 24s33 | 1s35 | 20s28 | 2s15 | 2s40 | 0s31 | 10s39 | 1s18 | 17s24 | 1s5 | 1s52 | 0s42 | 14s6  |
| S 14 | 23s13 | 20s8  | 3s12 | 24s19 | 1s25 | 20s9  | 2s12 | 2s24 | 0s30 | 10s39 | 1s18 | 17s23 | 1s5 | 1s52 | 0s42 | 14s6  |
| M15  | 23s16 | 19s20 | 3s59 | 24s5  | 1s13 | 19s49 | 2s9  | 2s8  | 0s28 | 10s38 | 1s18 | 17s21 | 1s5 | 1s52 | 0s42 | 14s6  |
| T 16 | 23s19 | 17s41 | 4s34 | 23s49 | 1s0  | 19s28 | 2s6  | 1s36 | 0s26 | 10s38 | 1s18 | 17s19 | 1s5 | 1s52 | 0s42 | 14s5  |
| W17  | 23s22 | 15s17 | 4s58 | 23s33 | 0s46 | 19s7  | 2s3  | 1s53 | 0s24 | 10s37 | 1s17 | 17s18 | 1s5 | 1s52 | 0s42 | 14s5  |
| T 18 | 23s24 | 12s16 | 5s9  | 23s17 | 0s31 | 18s46 | 1s59 | 1s20 | 0s23 | 10s37 | 1s17 | 17s16 | 1s5 | 1s52 | 0s42 | 14s4  |
| F 19 | 23s25 | 8s45  | 5s6  | 23s1  | 0s14 | 18s24 | 1s56 | 1s4  | 0s21 | 10s37 | 1s17 | 17s15 | 1s5 | 1s52 | 0s42 | 14s4  |
| S 20 | 23s27 | 4s52  | 4s50 | 22s44 | 0n3  | 18s3  | 1s52 | 0s48 | 0s19 | 10s36 | 1s16 | 17s13 | 1s5 | 1s52 | 0s42 | 14s3  |
| S 21 | 23s27 | 0s45  | 4s21 | 22s28 | 0s22 | 17s40 | 1s48 | 0s32 | 0s18 | 10s36 | 1s16 | 17s11 | 1s5 | 1s52 | 0s42 | 14s3  |
| M22  | 23s27 | 3s29  | 3s40 | 22s12 | 0s41 | 17s18 | 1s44 | 0s16 | 0s16 | 10s36 | 1s16 | 17s9  | 1s5 | 1s52 | 0s42 | 14s2  |
| T 23 | 23s27 | 7s41  | 2s47 | 21s57 | 1s1  | 16s55 | 1s39 | 0s0  | 0s14 | 10s36 | 1s15 | 17s8  | 1s5 | 1s53 | 0s42 | 14s2  |
| W24  | 23s26 | 11s40 | 1s44 | 21s42 | 1s21 | 16s32 | 1s35 | 0n16 | 0s13 | 10s36 | 1s15 | 17s6  | 1s5 | 1s53 | 0s42 | 14s1  |
| T 25 | 23s25 | 15s11 | 0s33 | 21s27 | 1s40 | 16s8  | 1s30 | 0s32 | 0s11 | 10s36 | 1s15 | 17s4  | 1s5 | 1s53 | 0s42 | 14s1  |
| F 26 | 23s24 | 17s58 | 0n42 | 21s14 | 1s59 | 15s45 | 1s25 | 0s48 | 0s10 | 10s37 | 1s14 | 17s2  | 1s5 | 1s53 | 0s42 | 14s0  |
| S 27 | 23s21 | 19s43 | 1s57 | 21s1  | 2s16 | 15s21 | 1s20 | 1s5  | 0s8  | 10s37 | 1s14 | 17s1  | 1s5 | 1s53 | 0s42 | 14s0  |
| S 28 | 23s19 | 20s10 | 3s6  | 20s49 | 2s31 | 14s56 | 1s14 | 1s21 | 0s7  | 10s37 | 1s14 | 16s59 | 1s5 | 1s54 | 0s42 | 13s59 |
| M29  | 23s16 | 19s11 | 4s3  | 20s39 | 2s45 | 14s32 | 1s9  | 1s37 | 0s5  | 10s38 | 1s14 | 16s57 | 1s5 | 1s54 | 0s42 | 13s59 |
| T 30 | 23s12 | 16s49 | 4s44 | 20s30 | 2s56 | 14s7  | 1s3  | 1s53 | 0s4  | 10s38 | 1s13 | 16s55 | 1s5 | 1s54 | 0s42 | 13s58 |
| W31  | 23s8  | 13s18 | 5n4  | 20s23 | 3n4  | 13s43 | 0s57 | 2n9  | 0s3  | 10n39 | 1s13 | 16s53 | 1s5 | 1n55 | 0s42 | 13s57 |

Julian Day Number = 2395266.5, Delta T = 8.15 sec  
 Ecliptic obliquity = 23°27'27", Nutation = 0°00'11", out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 22°35'19", Lahiri = 21°42'20"