

Astrodienst Ephemeris Tables for the year 1729

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

JANUARY 1729 00:00 UT

| UAIT | ,,,,,, =, | | | | | | | | | | | | | | 00.0 | 0 0 1 |
|------|-----------|-------------------|----------------|-----------------|---------------|-------|----------------|-------|----------------|--------------|----------------|--------|-------|---------------|----------------|-------|
| Day | Sid.t | 0 |) | ğ | Ş | ♂ | 4 | ħ |)∤(| , | В | S. | v | Ç | ķ | Day |
| S 1 | 6 42 23 | 10 5 40'30 | 27중32 | 19 × 758 | 12≈25 | 4≈18 | 29°R51 | 23≈59 | 25 M 20 | 8°R31 | 10 ≏ 23 | 24°R47 | 26≈27 | 6 8 26 | 16 Y 40 | S 1 |
| S 2 | 6 46 20 | 11°41'42 | 11≈10 | 21°18 | 13°39 | 5° 6 | 29 Ⅱ 43 | 24° 5 | 25°23 | 8П29 | 10°23 | 24≈44 | 26°24 | 6°33 | 16°41 | S 2 |
| M 3 | 6 50 16 | 12°42'53 | 24°24 | 22°39 | 14°53 | 5°53 | 29°35 | 24°11 | 25°25 | 8°28 | 10°23 | 24°D43 | 26°21 | 6°39 | 16°41 | M 3 |
| T 4 | 6 54 13 | 13°44'04 | 7 ∺ 15 | 24° 1 | 16° 7 | 6°40 | 29°28 | 24°17 | 25°28 | 8°27 | 10°24 | 24°44 | 26°18 | 6°46 | 16°42 | T 4 |
| W 5 | 6 58 10 | 14°45'15 | 19°45 | 25°24 | 17°21 | 7°28 | 29°20 | 24°23 | 25°31 | 8°25 | 10°24 | 24°46 | 26°14 | 6°53 | 16°42 | W 5 |
| T 6 | 7 2 6 | 15°46'24 | 1 Ƴ 57 | 26°48 | 18°35 | 8°15 | 29°13 | 24°29 | 25°34 | 8°24 | 10°24 | 24°47 | 26°11 | 6°59 | 16°43 | T 6 |
| F 7 | 7 6 3 | 16°47'34 | 13°58 | 28°13 | 19°48 | 9° 2 | 29° 5 | 24°36 | 25°36 | 8°23 | 10°24 | 24°R48 | 26° 8 | 7° 6 | 16°43 | F 7 |
| S 8 | 7 9 59 | 17°48'43 | 25°51 | 29°39 | 21° 2 | 9°50 | 28°58 | 24°42 | 25°39 | 8°21 | 10°25 | 24°48 | 26° 5 | 7°13 | 16°44 | S 8 |
| S 9 | 7 13 56 | 18°49'51 | 7 8 42 | 1ਰ 5 | 22°16 | 10°37 | 28°50 | 24°48 | 25°42 | 8°20 | 10°25 | 24°46 | 26° 2 | 7°20 | 16°45 | S 9 |
| M10 | 7 17 52 | 19°50'58 | 19°36 | 2°32 | 23°29 | 11°24 | 28°43 | 24°55 | 25°44 | 8°19 | 10°25 | 24°42 | 25°59 | 7°26 | 16°45 | M10 |
| T 11 | 7 21 49 | 20°52'05 | 1 Ⅱ 37 | 4° 0 | 24°43 | 12°12 | 28°36 | 25° 1 | 25°47 | 8°18 | 10°25 | 24°37 | 25°55 | 7°33 | 16°46 | T 11 |
| W12 | 7 25 45 | 21°53'12 | 13°48 | 5°29 | 25°56 | 12°59 | 28°29 | 25° 8 | 25°49 | 8°17 | 10°R25 | 24°31 | 25°52 | 7°40 | 16°47 | W12 |
| T 13 | 7 29 42 | 22°54'17 | 26°11 | 6°58 | 27°10 | 13°46 | 28°23 | 25°14 | 25°52 | 8°16 | 10°25 | 24°25 | 25°49 | 7°46 | 16°48 | T 13 |
| F 14 | 7 33 39 | 23°55'22 | 89549 | 8°27 | 28°23 | 14°34 | 28°16 | 25°21 | 25°54 | 8°15 | 10°25 | 24°20 | 25°46 | 7°53 | 16°49 | F 14 |
| S 15 | 7 37 35 | 24°56'27 | 21°41 | 9°58 | 29°37 | 15°21 | 28° 9 | 25°27 | 25°56 | 8°13 | 10°25 | 24°16 | 25°43 | 8° 0 | 16°50 | S 15 |
| S 16 | 7 41 32 | 25°57'30 | 4 Ω 48 | 11°29 | 0 ¥ 50 | 16° 9 | 28° 3 | 25°34 | 25°59 | 8°12 | 10°25 | 24°13 | 25°40 | 8° 7 | 16°51 | S 16 |
| M17 | 7 45 28 | 26°58'33 | 18° 8 | 13° 0 | 2° 3 | 16°56 | 27°57 | 25°40 | 26° 1 | 8°11 | 10°25 | 24°D11 | 25°36 | 8°13 | 16°52 | M17 |
| T 18 | 7 49 25 | 27°59'36 | 1 m 41 | 14°32 | 3°16 | 17°44 | 27°51 | 25°47 | 26° 3 | 8°10 | 10°24 | 24°11 | 25°33 | 8°20 | 16°54 | T 18 |
| W19 | 7 53 21 | 29° 0'38 | 15°24 | 16° 5 | 4°29 | 18°31 | 27°45 | 25°54 | 26° 5 | 8°10 | 10°24 | 24°12 | 25°30 | 8°27 | 16°55 | W19 |
| T 20 | 7 57 18 | 0≈ 1'39 | 29°15 | 17°38 | 5°42 | 19°18 | 27°39 | 26° 1 | 26° 7 | 8° 9 | 10°24 | 24°14 | 25°27 | 8°33 | 16°56 | T 20 |
| F 21 | 8 1 14 | 1° 2'39 | 13 <u>₽</u> 15 | 19°12 | 6°55 | 20° 6 | 27°33 | 26° 7 | 26°10 | 8° 8 | 10°24 | 24°15 | 25°24 | 8°40 | 16°58 | F 21 |
| S 22 | 8 5 11 | 2° 3'40 | 27°21 | 20°47 | 8° 8 | 20°53 | 27°27 | 26°14 | 26°12 | 8° 7 | 10°23 | 24°R16 | 25°20 | 8°47 | 16°59 | S 22 |
| S 23 | 8 9 8 | 3° 4'39 | 11 M 32 | 22°22 | 9°21 | 21°41 | 27°22 | 26°21 | 26°14 | 8° 6 | 10°23 | 24°16 | 25°17 | 8°54 | 17° 0 | S 23 |
| M24 | 8 13 4 | 4° 5'38 | 25°45 | 23°58 | 10°34 | 22°28 | 27°17 | 26°28 | 26°16 | 8° 5 | 10°23 | 24°15 | 25°14 | 9° 0 | 17° 2 | M24 |
| T 25 | 8 17 1 | 5° 6'37 | 9 .7 59 | 25°34 | 11°47 | 23°15 | 27°12 | 26°35 | 26°17 | 8° 4 | 10°22 | 24°13 | 25°11 | 9° 7 | 17° 4 | T 25 |
| W26 | 8 20 57 | 6° 7'35 | 24°10 | 27°11 | 12°59 | 24° 3 | 27° 7 | 26°42 | 26°19 | 8° 4 | 10°22 | 24°10 | 25° 8 | 9°14 | 17° 5 | W26 |
| T 27 | 8 24 54 | 7° 8'32 | 8 궁 14 | 28°49 | 14°12 | 24°50 | 27° 2 | 26°49 | 26°21 | 8° 3 | 10°21 | 24° 8 | 25° 5 | 9°20 | 17° 7 | T 27 |
| F 28 | 8 28 50 | 8° 9'28 | 22° 7 | 0≈28 | 15°24 | 25°38 | 26°58 | 26°56 | 26°23 | 8° 2 | 10°21 | 24° 6 | 25° 1 | 9°27 | 17° 9 | F 28 |
| S 29 | 8 32 47 | 9°10'23 | 5≈46 | 2° 7 | 16°37 | 26°25 | 26°53 | 27° 3 | 26°25 | 8° 2 | 10°20 | 24° 4 | 24°58 | 9°34 | 17°11 | S 29 |
| S 30 | 8 36 43 | 10°11'17 | 19° 8 | 3°47 | 17°49 | 27°13 | 26°49 | 27°10 | 26°26 | 8° 1 | 10°20 | 24°D 4 | 24°55 | 9°41 | 17°12 | S 30 |
| M31 | 8 40 40 | 11≈12'10 | 2) 12 | 5≈27 | 19 米 1 | 28≈ 0 | 26 Ⅱ 45 | 27≈17 | 26M28 | 8 I 0 | 10☎19 | 24≈ 4 | 24≈52 | 9 8 47 | 17 Υ 14 | M31 |

| Day | 0 | D | | ğ | | φ | | d | 7 | 2 | + | ħ | l |) | f(| 4 | (| Р | | P | ದಿ | Ç | Š | 5 |
|--------------|----------------|----------|---------------|--------|--------------|----------------|-------|----------------|------|----------------|------|----------------|--------------|----------------|------|----------------|-------|----------------|-------|--------|--------|----------------|--------------|--------------|
| | decl | decl lat | | decl l | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23 s 3 | 23 s 0 2 | s22 2 | 2s15 | 0n51 | 18 s49 | 1 s47 | 20 s20 | 1s 9 | 23n19 | 0s10 | 14 s52 | 1 s24 | 18 s53 | 0n15 | 20n11 | 1 s35 | 11n31 | 17n 0 | 13 s17 | 12 s43 | 18n15 | 7n25 | 0n55 |
| S 2 | 22 58 | 18 37 1 | 13 23 | 2 29 | 0 42 | 18 27 | 1 46 | 20 8 | 1 9 | 23 19 | 0 10 | 14 50 | 1 24 | 18 54 | 0 15 | 20 11 | 1 35 | 11 31 | 17 1 | 13 18 | 12 44 | 18 17 | 7 25 | 0 55 |
| M 3 | 22 52 | | 2 2 | | | 18 5 | | 19 56 | | 23 19 | | 14 48 | | 18 54 | | 20 11 | | 11 31 | | | - | | 7 25 | 0 55 |
| T 4 | 22 46 | - | n 7 22 | | | 17 42 | | 19 44 | | 23 19 | 0 9 | | | 18 55 | | 20 11 | | - | | | - | 18 22 | 7 25 | 0 55 |
| W 5 | 22 40 | _ | 12 2 | | | 17 19 | - | 19 32 | | 23 19 | 0 9 | | | 18 56 | | 20 11 | | - | | | | 18 25 | 7 25 | 0 55 |
| T 6 | 22 33 22 25 | | 8 2. 56 2. | - | | 16 56 16 32 | 1 44 | 19 20 19 7 | | 23 19 23 20 | 0 9 | 14 41 14 39 | | 18 56 18 57 | | 20 10 20 10 | | 11 33 11 33 | | | - | 18 27 18 30 | 7 25 7 25 | 0 55 0 54 |
| S 8 | | | 33 2 | | 0 s 6 | | - | 18 54 | | 23 20 | | | | 18 58 | | 20 10 | | 11 33 | | | | 18 32 | 7 25 | 0 54 |
| S 9 | 22 9 | | 58 2 | - | | 15 43 | | 18 41 | | 23 20 | | 14 35 | | 18 58 | | | | 11 34 | | | - | 18 35 | 7 25 | 0 54 |
| M10 | | | 10 2 | | | 15 18 | | 18 28 | | 23 20 | | 14 33 | | 18 59 | | | | 11 35 | | | | | 7 26 | 0 54 |
| T 11 W12 | 21 51 | | | | | 14 52 | | 18 14 | | 23 20 | | 14 31 | | 18 59 | | | | 11 35 11 36 | | | - | 18 40 | 7 26 | 0 54 |
| | 21 42 | | 54 2 | | 0 33 | 14 26 13 59 | 1 38 | 18 1 17 47 | | 23 20 23 20 | | 14 28 14 26 | 1 23 | 19 0 19 1 | | 20 10 20 9 | | 11 36 | | | | 18 42 18 45 | 7 26 7 26 | 0 54 0 54 |
| - | 21 21 | | 43 24 | | | 13 33 | | 17 33 | | 23 20 | | 14 24 | 1 23 | - | | 20 9 | | 11 30 | | | 12 57 | | 7 26 | 0 53 |
| | 21 11 | | 48 24 | - | 0 54 | | | 17 19 | | 23 20 | | 14 22 | | 19 2 | | 20 9 | | 11 37 | | | | | 7 27 | 0 53 |
| S 16 | 20 59 | 20 47 1 | 44 23 | 3 59 | 1 0 | 12 38 | 1 33 | 17 4 | 1 6 | 23 20 | 0 7 | 14 20 | 1 23 | 19 2 | 0 15 | 20 9 | 1 35 | 11 38 | 17 9 | 13 28 | 12 59 | 18 52 | 7 27 | 0 53 |
| M17 | | | 33 23 | | 1 6 | | - | 16 50 | | 23 20 | 0 7 | | 1 23 | | | | | 11 39 | | | | 18 55 | 7 27 | 0 53 |
| - | 20 36 | | s41 2 | | 1 12 | | | 16 35 | | 23 20 | 0 7 | | 1 23 | | | | | 11 39 | | | - | 18 57 | 7 28 | 0 53 |
| T 20 | 20 23 20 11 | | 54 2: | | 1 18 1 23 | | | 16 20 16 5 | | 23 20 23 20 | 0 7 | | 1 23 | - | | | | 11 40 11 40 | | | - | 19 0 19 2 | 7 28 7 28 | 0 53 |
| F 21 | 19 57 | | 58 2 | | 1 28 | | - | 15 50 | | 23 20 | 0 7 | | 1 23 | - | | | | - | | | | | 7 29 | 0 53 |
| S 22 | | | 41 2 | | 1 32 | 9 47 | | 15 35 | | 23 21 | 0 7 | - | 1 23 | | | | | | | | | | 7 29 | 0 52 |
| S 23 | 19 30 | 20 11 5 | 7 2 | 3 13 | 1 37 | 9 18 | 1 19 | 15 19 | 1 4 | 23 21 | 0 6 | 14 3 | 1 23 | 19 6 | 0 15 | 20 8 | 1 34 | 11 42 | 17 13 | 13 27 | 13 7 | 19 9 | 7 30 | 0 52 |
| M24 | 19 16 | 24 19 5 | 15 23 | 3 0 | 1 41 | 8 48 | 1 17 | 15 3 | 1 4 | 23 21 | 0 6 | 14 1 | 1 23 | 19 6 | 0 15 | 20 8 | 1 34 | 11 43 | 17 13 | 13 28 | 13 8 | 19 12 | 7 30 | 0 52 |
| T 25 | | 26 59 5 | - | 2 47 | 1 45 | 8 19 | - | | | 23 21 | 0 6 | | 1 23 | | | | - | 11 44 | | | | - | 7 31 | 0 52 |
| W26 | | | 33 22 | - | 1 48 | 7 49 | - | 14 31 | | 23 21 | 0 6 | | 1 23 | | | | - | | | | | | 7 31 | 0 52 |
| T 27 F 28 | | | 47 2 47 2 | - | 1 52 1 54 | 7 18 6 48 | - | 14 15 13 59 | | 23 21 23 21 | 0 6 | 13 54 13 52 | 1 23 1 23 | | | | - | 11 45 11 46 | | | - | | 7 32 7 32 | 0 52 0 52 |
| S 29 | | | 39 2 | | 1 54 | | - | 13 42 | | 23 21 | | 13 49 | 1 23 | | | | | - | | | - | - | 7 33 | 0 52 |
| | 17 43 | | 27 2 | - | 1 59 | 5 47 | | 13 26 | | 23 21 | | 13 47 | | 19 9 | | | - | 11 47 | | | - | | | 0 51 |
| M31 | 17 s26 | 10 s 0 | n45 20 | 0s54 | 2s 1 | 5s16 | 1s 0 | 13 s 9 | 1s 2 | 23n21 | 0s 5 | 13 s44 | 1 s23 | 19s 9 | 0n15 | 20n 8 | 1 s34 | 11n48 | 17n17 | 13 s31 | 13 s15 | 19n29 | 7n34 | 0n51 |

 $\label{eq:Julian Day Number = 2352564.5, Delta T = 11.06 sec} \\ Ecliptic obliquity = 23°28'35, Nutation = 0°00'10, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°57'25, Lahiri = 20°04'26Greg. Calendar$

FEBRUARY 1729 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)∤(| 卉 | Р | u | v | Ç | Ŗ | Day |
|------|----------|-------------------|----------------|-----------------|----------------|---------------|-----------------|----------------|-------|-------|----------------|--------|-------|---------------|----------------|------|
| T 1 | 8 44 37 | 12≈13'01 | 14) 58 | 7≈ 9 | 20) 14 | 28≈47 | 26°R41 | 27≈24 | 26M29 | 8°R 0 | 10°R18 | 24≈ 4 | 24≈49 | 9 8 54 | 17 Y 16 | T 1 |
| W 2 | 8 48 33 | 13°13'52 | 27°27 | 8°51 | 21°26 | 29°35 | 26耳38 | 27°31 | 26°31 | 7耳59 | 10 ≏ 18 | 24° 5 | 24°46 | 10° 1 | 17°18 | W 2 |
| T 3 | 8 52 30 | 14°14'40 | 9 Ƴ 41 | 10°34 | 22°38 | 0 ∺ 22 | 26°34 | 27°39 | 26°32 | 7°59 | 10°17 | 24° 6 | 24°42 | 10° 7 | 17°20 | T 3 |
| F 4 | 8 56 26 | 15°15'27 | 21°43 | 12°17 | 23°50 | 1° 9 | 26°31 | 27°46 | 26°34 | 7°58 | 10°16 | 24° 7 | 24°39 | 10°14 | 17°22 | F 4 |
| S 5 | 9 0 23 | 16°16'13 | 3 8 38 | 14° 2 | 25° 1 | 1°57 | 26°28 | 27°53 | 26°35 | 7°58 | 10°15 | 24° 8 | 24°36 | 10°21 | 17°25 | S 5 |
| S 6 | 9 4 19 | 17°16'57 | 15°30 | 15°47 | 26°13 | 2°44 | 26°25 | 28° 0 | 26°36 | 7°58 | 10°14 | 24°R 8 | 24°33 | 10°28 | 17°27 | S 6 |
| M 7 | 9 8 16 | 18°17'40 | 27°25 | 17°33 | 27°25 | 3°31 | 26°23 | 28° 7 | 26°38 | 7°57 | 10°14 | 24° 8 | 24°30 | 10°34 | 17°29 | M 7 |
| T 8 | 9 12 12 | 19°18'21 | 9Ⅱ25 | 19°20 | 28°36 | 4°19 | 26°20 | 28°14 | 26°39 | 7°57 | 10°13 | 24° 8 | 24°26 | 10°41 | 17°31 | T 8 |
| W 9 | 9 16 9 | 20°19'00 | 21°37 | 21° 8 | 29°48 | 5° 6 | 26°18 | 28°22 | 26°40 | 7°57 | 10°12 | 24° 7 | 24°23 | 10°48 | 17°34 | W 9 |
| T 10 | 9 20 6 | 21°19'38 | 499 3 | 22°56 | 0 Ƴ 59 | 5°53 | 26°16 | 28°29 | 26°41 | 7°56 | 10°11 | 24° 7 | 24°20 | 10°55 | 17°36 | T 10 |
| F 11 | 9 24 2 | 22°20'14 | 16°48 | 24°45 | 2°10 | 6°41 | 26°14 | 28°36 | 26°42 | 7°56 | 10°10 | 24° 7 | 24°17 | 11° 1 | 17°39 | F 11 |
| S 12 | 9 27 59 | 23°20'48 | 29°52 | 26°35 | 3°21 | 7°28 | 26°12 | 28°43 | 26°43 | 7°56 | 10° 9 | 24° 7 | 24°14 | 11° 8 | 17°41 | S 12 |
| S 13 | 9 31 55 | 24°21'21 | 13 Ω 16 | 28°25 | 4°32 | 8°15 | 26°11 | 28°51 | 26°44 | 7°56 | 10° 8 | 24°D 6 | 24°11 | 11°15 | 17°44 | S 13 |
| M14 | 9 35 52 | 25°21'52 | 26°59 | 0) (16 | 5°43 | 9° 2 | 26°10 | 28°58 | 26°45 | 7°56 | 10° 7 | 24°R 7 | 24° 7 | 11°21 | 17°46 | M14 |
| T 15 | 9 39 48 | 26°22'21 | 10 m 58 | 2° 8 | 6°54 | 9°49 | 26° 9 | 29° 5 | 26°46 | 7°56 | 10° 6 | 24° 6 | 24° 4 | 11°28 | 17°49 | T 15 |
| W16 | 9 43 45 | 27°22'49 | 25°11 | 4° 0 | 8° 5 | 10°36 | 26° 8 | 29°13 | 26°47 | 7°56 | 10° 5 | 24° 6 | 24° 1 | 11°35 | 17°51 | W16 |
| T 17 | 9 47 41 | 28°23'15 | 9 ॒ 31 | 5°52 | 9°15 | 11°24 | 26° 7 | 29°20 | 26°47 | 7°D56 | 10° 4 | 24° 6 | 23°58 | 11°42 | 17°54 | T 17 |
| F 18 | 9 51 38 | 29°23'40 | 23°55 | 7°45 | 10°25 | 12°11 | 26° 7 | 29°27 | 26°48 | 7°56 | 10° 3 | 24° 5 | 23°55 | 11°48 | 17°57 | F 18 |
| S 19 | 9 55 35 | 0) €24'04 | 8 M 17 | 9°37 | 11°36 | 12°58 | 26° 6 | 29°34 | 26°49 | 7°56 | 10° 1 | 24° 5 | 23°51 | 11°55 | 17°59 | S 19 |
| S 20 | 9 59 31 | 1°24'26 | 22°35 | 11°29 | 12°46 | 13°45 | 26°D 6 | 29°42 | 26°49 | 7°56 | 10° 0 | 24° 4 | 23°48 | 12° 2 | 18° 2 | S 20 |
| M21 | 10 3 28 | 2°24'47 | 6 ₹ 45 | 13°20 | 13°56 | 14°32 | 26° 6 | 29°49 | 26°50 | 7°56 | 9°59 | 24°D 4 | 23°45 | 12° 8 | 18° 5 | M21 |
| T 22 | 10 7 24 | 3°25'07 | 20°45 | 15°11 | 15° 6 | 15°19 | 26° 7 | 29°56 | 26°50 | 7°56 | 9°58 | 24° 5 | 23°42 | 12°15 | 18° 8 | T 22 |
| W23 | 10 11 21 | 4°25'25 | 4 ⋜ 34 | 17° 1 | 16°15 | 16° 6 | 26° 7 | 0 ∺ 4 | 26°50 | 7°56 | 9°56 | 24° 5 | 23°39 | 12°22 | 18°11 | W23 |
| T 24 | 10 15 17 | 5°25'42 | 18°11 | 18°49 | 17°25 | 16°53 | 26° 8 | 0°11 | 26°51 | 7°56 | 9°55 | 24° 6 | 23°36 | 12°29 | 18°14 | T 24 |
| F 25 | 10 19 14 | 6°25'57 | 1≈36 | 20°35 | 18°34 | 17°40 | 26° 9 | 0°18 | 26°51 | 7°57 | 9°54 | 24° 7 | 23°32 | 12°35 | 18°17 | F 25 |
| S 26 | 10 23 10 | 7°26'10 | 14°48 | 22°18 | 19°44 | 18°27 | 26°10 | 0°25 | 26°51 | 7°57 | 9°53 | 24° 8 | 23°29 | 12°42 | 18°20 | S 26 |
| S 27 | 10 27 7 | 8°26'22 | 27°47 | 23°59 | 20°53 | 19°14 | 26°11 | 0°33 | 26°51 | 7°57 | 9°51 | 24°R 8 | 23°26 | 12°49 | 18°23 | S 27 |
| M28 | 10 31 4 | 9) (26'32 | 10) 33 | 25) 37 | 22 ° 2 | 20 米 0 | 26 I I13 | 0) (40 | 26M52 | 7Ⅲ58 | 9 ≏ 50 | 24≈ 8 | 23≈23 | 12856 | 18 Y 26 | M28 |

| Day | 0 | , |) | ζ | 5 | ç |) | ď | 1 | | 4 | | ŧ |). | |) / (| | J | ŧ. | E | 2 | ก | Ω | Ç | ķ | |
|------|-------|---------|------|--------|------|---------|------|--------|---------|------|-------|---|--------|-------|-------|------------------|-----|-------|-------|-------|-------|--------|--------|-------|------|------|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | dec | l lat | | decl | lat | dec | l lat | | decl | | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 17s10 | 4 s 1 1 | 1n53 | 20 s29 | 2s 3 | 4 s 4 5 | 0s57 | 12 s52 | 1 s | 23n2 | 1 0 s | 5 | 13 s42 | 1 s23 | 19s | 9 0 | n15 | 20n 8 | 1 s34 | 11n49 | 17n18 | 13 s31 | 13 s16 | 19n31 | 7n35 | 0n51 |
| W 2 | 16 52 | 1n39 | 2 54 | 20 4 | 2 4 | 4 14 | 0 54 | 12 35 | 1 1 | 23 2 | 1 0 | 5 | 13 39 | 1 23 | 19 1 | 0 0 | 15 | 20 8 | 1 34 | 11 49 | 17 18 | 13 31 | 13 17 | 19 33 | 7 36 | 0 51 |
| T 3 | 16 35 | 7 19 | 3 47 | 19 37 | 2 4 | 3 43 | 0 51 | 12 18 | 1 1 | 23 2 | 1 0 | 5 | 13 37 | 1 23 | 19 1 | 0 0 | 15 | 20 8 | 1 34 | 11 50 | 17 19 | 13 30 | 13 18 | 19 36 | 7 36 | 0 51 |
| F 4 | 16 17 | 12 37 | 4 28 | 19 8 | 2 5 | 3 11 | 0 48 | 12 1 | 1 (| 23 2 | 1 0 | 5 | 13 35 | 1 24 | 19 1 | 0 0 | 15 | 20 8 | 1 34 | 11 51 | 17 19 | 13 30 | 13 19 | 19 38 | 7 37 | 0 51 |
| S 5 | 15 59 | 17 24 | 4 57 | 18 38 | 2 5 | 2 40 | 0 45 | 11 44 | 1 (| 23 2 | 1 0 | 4 | 13 32 | 1 24 | 19 1 | 1 0 | 15 | 20 8 | 1 34 | 11 52 | 17 20 | 13 30 | 13 21 | 19 41 | 7 38 | 0 51 |
| S 6 | 15 41 | 21 30 | 5 13 | 18 6 | 2 4 | 2 8 | 0 42 | 11 27 | 1 (| 23 2 | 1 0 | 4 | 13 30 | 1 24 | 19 1 | 1 0 | 15 | 20 8 | 1 34 | 11 52 | 17 20 | 13 30 | 13 22 | 19 43 | 7 38 | 0 51 |
| M 7 | 15 22 | 24 44 | 5 16 | 17 33 | 2 3 | 1 37 | 0 38 | 11 9 | 0 59 | 23 2 | 1 0 | 4 | 13 27 | 1 24 | 19 1 | 1 0 | 15 | 20 8 | 1 33 | 11 53 | 17 21 | 13 30 | 13 23 | 19 45 | 7 39 | 0 50 |
| T 8 | 15 3 | 26 56 | 5 6 | 16 58 | 2 2 | 1 5 | 0 35 | 10 52 | 0 59 | 23 2 | 2 0 | 4 | 13 25 | 1 24 | 19 1 | 2 0 | 15 | 20 8 | 1 33 | 11 54 | 17 21 | 13 30 | 13 24 | 19 48 | 7 40 | 0 50 |
| W 9 | 14 44 | 27 53 | 4 41 | 16 22 | 2 0 | 0 34 | 0 32 | 10 34 | 0 59 | 23 2 | 2 0 | 4 | 13 22 | 1 24 | 19 1 | 2 0 | 15 | 20 8 | 1 33 | 11 55 | 17 22 | 13 30 | 13 25 | 19 50 | 7 41 | 0 50 |
| T 10 | 14 25 | 27 28 | 4 3 | 15 44 | 1 57 | 0 2 | 0 28 | 10 16 | 0 58 | 23 2 | 2 0 | 4 | 13 20 | 1 24 | 19 1 | 2 0 | 15 | 20 8 | 1 33 | 11 55 | 17 22 | 13 30 | 13 26 | 19 52 | 7 41 | 0 50 |
| F 11 | 14 5 | 25 36 | 3 12 | 15 5 | 1 54 | 0n29 | 0 25 | 9 58 | 0 58 | 23 2 | 2 0 | 4 | 13 17 | 1 24 | 19 1 | 2 0 | 15 | 20 8 | 1 33 | 11 56 | 17 23 | 13 30 | 13 27 | 19 55 | 7 42 | 0 50 |
| S 12 | 13 45 | 22 20 | 2 10 | 14 24 | 1 51 | 1 1 | 0 21 | 9 40 | 0 57 | 23 2 | 2 0 | 3 | 13 15 | 1 24 | 19 1 | 3 0 | 15 | 20 8 | 1 33 | 11 57 | 17 23 | 13 30 | 13 28 | 19 57 | 7 43 | 0 50 |
| S 13 | 13 25 | 17 49 | 1 0 | 13 42 | 1 46 | 1 32 | 0 18 | 9 22 | 0 57 | 23 2 | 2 0 | 3 | 13 12 | 1 24 | 19 1 | 3 0 | 15 | 20 8 | 1 33 | 11 58 | 17 24 | 13 30 | 13 29 | 19 59 | 7 44 | 0 50 |
| M14 | 13 5 | 12 17 | 0s16 | 12 59 | 1 42 | 2 4 | 0 14 | 9 4 | 0 57 | 23 2 | 2 0 | 3 | 13 10 | 1 24 | 19 1 | 3 0 | 15 | 20 8 | 1 33 | 11 59 | 17 24 | 13 30 | 13 30 | 20 2 | 7 45 | 0 50 |
| T 15 | 12 45 | 6 2 | 1 32 | 12 14 | 1 36 | 2 35 | 0 10 | 8 46 | 0 56 | 23 2 | 2 0 | 3 | 13 7 | 1 24 | 19 1 | 3 0 | 15 | 20 8 | 1 33 | 11 59 | 17 24 | 13 30 | 13 31 | 20 4 | 7 46 | 0 50 |
| W16 | 12 24 | 0s35 | 2 44 | 11 28 | 1 31 | 3 7 | 0 6 | 8 28 | 0 56 | 23 2 | 2 0 | 3 | 13 5 | 1 24 | 19 1 | 3 0 | 15 | 20 8 | 1 33 | 12 0 | 17 25 | 13 30 | 13 32 | 20 6 | 7 47 | 0 49 |
| T 17 | 12 3 | 7 14 | 3 46 | 10 41 | 1 24 | 3 38 | 0 3 | 8 9 | 0 55 | 23 2 | 2 0 | 3 | 13 2 | 1 24 | 19 1 | 4 0 | 15 | 20 8 | 1 33 | 12 1 | 17 25 | 13 31 | 13 33 | 20 9 | 7 48 | 0 49 |
| F 18 | 11 42 | 13 32 | 4 34 | 9 52 | 1 17 | 4 9 | 0n 1 | 7 51 | 0 55 | 23 2 | 3 0 | 3 | 13 0 | 1 24 | 19 1 | 4 0 | 15 | 20 8 | 1 33 | 12 2 | 17 26 | 13 31 | 13 34 | 20 11 | 7 49 | 0 49 |
| S 19 | 11 21 | 19 6 | 5 5 | 9 3 | 1 9 | 4 40 | 0 5 | 7 32 | 0 54 | 23 2 | 3 0 | 3 | 12 57 | 1 24 | 19 1 | 4 0 | 15 | 20 8 | 1 33 | 12 3 | 17 26 | 13 31 | 13 35 | 20 13 | 7 49 | 0 49 |
| S 20 | 10 59 | 23 33 | 5 17 | 8 12 | 1 1 | 5 11 | 0 9 | 7 14 | 0 54 | 23 2 | 3 0 | 2 | 12 55 | 1 24 | 19 1 | 4 0 | 15 | 20 8 | 1 33 | 12 4 | 17 27 | 13 31 | 13 36 | 20 15 | 7 50 | 0 49 |
| M21 | 10 38 | 26 33 | 5 9 | 7 21 | 0 52 | 5 42 | 0 13 | 6 55 | 0 54 | 23 2 | 3 0 | 2 | 12 52 | 1 24 | 19 1 | 4 0 | 15 | 20 8 | 1 33 | 12 4 | 17 27 | 13 31 | 13 37 | 20 18 | 7 51 | 0 49 |
| T 22 | 10 16 | | | | 0 42 | 6 13 | 0 17 | 6 37 | | 23 2 | - | 2 | - | | 19 1 | 1 | 15 | | | | 17 27 | | 13 38 | | 7 52 | 0 49 |
| W23 | | 27 25 | - | 5 37 | 0 32 | 6 44 | 0 21 | 6 18 | | 23 2 | - | 2 | | | 19 1 | | 15 | | | | 17 28 | | 13 40 | | 7 53 | 0 49 |
| T 24 | | 25 19 | | | 0 21 | 7 15 | 0 26 | 5 59 | | 23 2 | - | 2 | | | 19 1 | 1 | 15 | | | | 17 28 | | 13 41 | - | 7 54 | 0 49 |
| F 25 | | 21 49 | | | 0 9 | 7 45 | 0 30 | 5 41 | | 23 2 | | 2 | | | 19 1 | | 15 | | _ | | 17 28 | | 13 42 | - | 7 56 | 0 48 |
| S 26 | | 17 14 | | 3 1 | 0n 3 | 8 15 | 0 34 | 5 22 | | 23 2 | | 2 | | | 19 1 | | 15 | | _ | | 17 29 | | 13 43 | | 7 57 | 0 48 |
| S 27 | 8 25 | 11 57 | 0n20 | 2 9 | 0 16 | 8 45 | 0 38 | 5 3 | 0 51 | 23 2 | 4 0 | 1 | 12 37 | 1 25 | 19 1 | 4 0 | 15 | 20 9 | 1 32 | 12 9 | 17 29 | 13 30 | 13 44 | 20 31 | 7 58 | 0 48 |
| M28 | 8 s 2 | | | 1s19 | 0n29 | 9n15 | 0n43 | 4 s44 | 0 s 5 (| 23n2 | 4 0 s | 1 | 12 s35 | 1 s25 | 19 s1 | 5 0 | n15 | 20n 9 | 1 s32 | 12n10 | 17n29 | 13 s30 | 13 s45 | 20n33 | 7n59 | 0n48 |

Julian Day Number = 2352595.5, Delta T = 11.07 sec Ecliptic obliquity = 23°28'36, Nutation = 0°00'11, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°57'30, Lahiri = 20°04'30Greg. Calendar

MARCH 1729 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)ب(| ¥ | Р | R | u | Ç | ķ | Day |
|------|----------|-------------------|----------------|-----------------|----------------|------------------|-----------------|----------------|--------|---------------|---------------|--------|-------|----------------|----------------|------|
| T 1 | 10 35 0 | 10) 26'40 | 23) 6 | 27) (10 | 23 Y 10 | 20) (47 | 26 I I15 | 0) €47 | 26M52 | 7 Ⅱ 58 | 9°R48 | 24°R 6 | 23≈20 | 13 8 2 | 18 Y 29 | T 1 |
| W 2 | 10 38 57 | 11°26'46 | 5 ℃ 27 | 28°39 | 24°19 | 21°34 | 26°16 | 0°54 | 26°R52 | 7°59 | 9 ≏ 47 | 24≈ 4 | 23°17 | 13° 9 | 18°32 | W 2 |
| T 3 | 10 42 53 | 12°26'50 | 17°37 | oΥ 3 | 25°28 | 22°21 | 26°19 | 1° 1 | 26°52 | 7°59 | 9°46 | 24° 1 | 23°13 | 13°16 | 18°35 | T 3 |
| F 4 | 10 46 50 | 13°26'52 | 29°38 | 1°21 | 26°36 | 23° 8 | 26°21 | 1° 9 | 26°52 | 8° 0 | 9°44 | 23°58 | 23°10 | 13°22 | 18°39 | F 4 |
| S 5 | 10 50 46 | 14°26'52 | 11 8 33 | 2°33 | 27°44 | 23°54 | 26°23 | 1°16 | 26°51 | 8° 0 | 9°43 | 23°55 | 23° 7 | 13°29 | 18°42 | S 5 |
| S 6 | 10 54 43 | 15°26'50 | 23°25 | 3°38 | 28°52 | 24°41 | 26°26 | 1°23 | 26°51 | 8° 1 | 9°41 | 23°52 | 23° 4 | 13°36 | 18°45 | S 6 |
| M 7 | 10 58 39 | 16°26'45 | 5 Ⅱ 18 | 4°37 | 29°59 | 25°28 | 26°29 | 1°30 | 26°51 | 8° 1 | 9°40 | 23°51 | 23° 1 | 13°43 | 18°48 | M 7 |
| T 8 | 11 2 36 | 17°26'39 | 17°17 | 5°27 | 1 8 7 | 26°14 | 26°32 | 1°37 | 26°51 | 8° 2 | 9°38 | 23°D50 | 22°57 | 13°49 | 18°52 | T 8 |
| W 9 | 11 633 | 18°26'30 | 29°26 | 6°10 | 2°14 | 27° 1 | 26°35 | 1°44 | 26°50 | 8° 3 | 9°37 | 23°51 | 22°54 | 13°56 | 18°55 | W 9 |
| T 10 | 11 10 29 | 19°26'19 | 11950 | 6°45 | 3°22 | 27°47 | 26°38 | 1°51 | 26°50 | 8° 3 | 9°35 | 23°52 | 22°51 | 14° 3 | 18°58 | T 10 |
| F 11 | 11 14 26 | 20°26'06 | 24°33 | 7°11 | 4°28 | 28°34 | 26°42 | 1°58 | 26°49 | 8° 4 | 9°34 | 23°54 | 22°48 | 14° 9 | 19° 2 | F 11 |
| S 12 | 11 18 22 | 21°25'51 | 7 Ω 39 | 7°29 | 5°35 | 29°20 | 26°46 | 2° 5 | 26°49 | 8° 5 | 9°32 | 23°55 | 22°45 | 14°16 | 19° 5 | S 12 |
| S 13 | 11 22 19 | 22°25'33 | 21°11 | 7°38 | 6°42 | oΥ 7 | 26°50 | 2°12 | 26°48 | 8° 6 | 9°30 | 23°R56 | 22°42 | 14°23 | 19° 9 | S 13 |
| M14 | 11 26 15 | 23°25'13 | 5Mm, 7 | 7°R39 | 7°48 | 0°53 | 26°54 | 2°19 | 26°48 | 8° 6 | 9°29 | 23°55 | 22°38 | 14°30 | 19°12 | M14 |
| T 15 | 11 30 12 | 24°24'51 | 19°26 | 7°31 | 8°54 | 1°39 | 26°58 | 2°26 | 26°47 | 8° 7 | 9°27 | 23°53 | 22°35 | 14°36 | 19°16 | T 15 |
| W16 | 11 34 8 | 25°24'27 | 4 ♀ 4 | 7°16 | 10° 0 | 2°26 | 27° 3 | 2°33 | 26°46 | 8° 8 | 9°26 | 23°50 | 22°32 | 14°43 | 19°19 | W16 |
| T 17 | 11 38 5 | 26°24'01 | 18°53 | 6°54 | 11° 5 | 3°12 | 27° 7 | 2°40 | 26°45 | 8° 9 | 9°24 | 23°46 | 22°29 | 14°50 | 19°23 | T 17 |
| F 18 | 11 42 1 | 27°23'33 | 3 M .45 | 6°24 | 12°10 | 3°58 | 27°12 | 2°47 | 26°45 | 8°10 | 9°22 | 23°41 | 22°26 | 14°56 | 19°26 | F 18 |
| S 19 | 11 45 58 | 28°23'03 | 18°33 | 5°49 | 13°15 | 4°44 | 27°17 | 2°54 | 26°44 | 8°11 | 9°21 | 23°36 | 22°23 | 15° 3 | 19°30 | S 19 |
| S 20 | 11 49 55 | 29°22'32 | 3 ∡ 7 9 | 5° 8 | 14°20 | 5°31 | 27°22 | 3° 1 | 26°43 | 8°12 | 9°19 | 23°32 | 22°19 | 15°10 | 19°33 | S 20 |
| M21 | 11 53 51 | 0 Υ 21'59 | 17°28 | 4°23 | 15°25 | 6°17 | 27°28 | 3° 7 | 26°42 | 8°13 | 9°18 | 23°30 | 22°16 | 15°17 | 19°37 | M21 |
| T 22 | 11 57 48 | 1°21'24 | 1 る 28 | 3°35 | 16°29 | 7° 3 | 27°33 | 3°14 | 26°41 | 8°14 | 9°16 | 23°D29 | 22°13 | 15°23 | 19°40 | T 22 |
| W23 | 12 1 44 | 2°20'47 | 15° 9 | 2°44 | 17°33 | 7°49 | 27°39 | 3°21 | 26°40 | 8°15 | 9°14 | 23°30 | 22°10 | 15°30 | 19°44 | W23 |
| T 24 | 12 5 41 | 3°20'09 | 28°30 | 1°53 | 18°36 | 8°35 | 27°44 | 3°28 | 26°39 | 8°16 | 9°13 | 23°31 | 22° 7 | 15°37 | 19°48 | T 24 |
| F 25 | 12 9 37 | 4°19'28 | 11 ≈ 36 | 1° 1 | 19°40 | 9°21 | 27°50 | 3°34 | 26°37 | 8°18 | 9°11 | 23°33 | 22° 3 | 15°44 | 19°51 | F 25 |
| S 26 | 12 13 34 | 5°18'46 | 24°26 | 0°10 | 20°43 | 10° 7 | 27°57 | 3°41 | 26°36 | 8°19 | 9° 9 | 23°R33 | 22° 0 | 15°50 | 19°55 | S 26 |
| S 27 | 12 17 31 | 6°18'02 | 7) € 4 | 29 ∺ 21 | 21°45 | 10°53 | 28° 3 | 3°47 | 26°35 | 8°20 | 9°8 | 23°32 | 21°57 | 15°57 | 19°59 | S 27 |
| M28 | 12 21 27 | 7°17'16 | 19°31 | 28°35 | 22°48 | 11°38 | 28° 9 | 3°54 | 26°34 | 8°21 | 9° 6 | 23°29 | 21°54 | 16° 4 | 20° 2 | M28 |
| T 29 | 12 25 24 | 8°16'28 | 1 Υ 49 | 27°53 | 23°50 | 12°24 | 28°16 | 4° 0 | 26°32 | 8°23 | 9° 4 | 23°24 | 21°51 | 16°10 | 20° 6 | T 29 |
| W30 | 12 29 20 | 9°15'38 | 13°59 | 27°14 | 24°51 | 13°10 | 28°23 | 4° 7 | 26°31 | 8°24 | 9° 3 | 23°17 | 21°48 | 16°17 | 20°10 | W30 |
| T 31 | 12 33 17 | 10 Υ 14'46 | 26 Y 2 | 26 米 40 | 25 8 53 | 13 Y 56 | 28耳29 | 4) 13 | 26M30 | 8 Ⅱ 25 | 9 ≏ 1 | 23≈ 8 | 21≈44 | 16 8 24 | 20 Υ 13 | T 31 |

| Day | 0 | D | ğ | · | ď | 4 | ħ |)Å(| ¥ | Р | n | v t | , k |
|--|--|---|--|--|---|---|--|--|--|--|--|---|---|
| | decl | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl | decl decl | decl lat |
| T 1 W 2 | 7 s40 7 17 | 0 s24 2n33 5n22 3 29 | 0s29 0n4 0n19 0 : | | 4 6 0 49 | 23n24 0s 1 23 24 0 1 | 12 30 1 25 | 19 15 0 15 | | 12 12 17 30 | 13 31 13 | 47 20 38 | 8 1 0 48 |
| T 3 F 4 S 5 | | 10 50 4 14 15 50 4 47 20 11 5 7 | - | 9 10 43 0 56 23 11 12 1 0 37 11 41 1 4 | 3 28 0 48 | 23 25 0 1 23 25 0 1 23 25 0 1 | 12 25 1 25 | 19 14 0 15 | 20 10 1 32 20 10 1 32 20 10 1 32 | 12 13 17 31 | 13 33 13 | 49 20 42 | 8 3 0 48 |
| S 6 M 7 T 8 W 9 T 10 | 5 21 4 58 | 26 16 5 8 27 39 4 49 27 44 4 16 | 3 44 2 4 16 2 | 29 13 33 1 22 | 2 31 0 47 2 12 0 46 1 53 0 46 | 23 25 0 1 23 25 0 0 23 26 0 0 23 26 0 0 23 26 0 0 | 12 17 1 25 12 15 1 25 12 12 1 26 | 19 14 0 15 19 14 0 15 19 14 0 15 | 20 10 1 32 20 10 1 32 20 10 1 32 20 10 1 32 20 11 1 32 | 12 16 17 31 12 17 17 32 12 18 17 32 | 13 36 13 13 36 13 13 36 13 | 52 20 49 53 20 51 54 20 53 | 8 8 0 47 8 9 0 47 |
| F 11 S 12 | | 23 46 2 34 19 48 1 28 | 5 29 2 3 5 45 3 | 52 14 28 1 31 2 14 54 1 36 | | 23 26 On 0 23 26 O 0 | 12 7 1 26 | | 20 11 1 32 20 11 1 32 | | | | 8 11 0 47 8 13 0 47 |
| S 13 M14 T 15 W16 T 17 F 18 S 19 | 3 1 2 37 2 13 1 50 1 26 1 2 0 39 | | 6 4 3 6 6 3 2 6 4 3 2 5 58 3 2 5 47 3 2 | 10 15 21 1 40 18 15 47 1 45 24 16 12 1 49 28 16 38 1 54 31 17 3 1 58 32 17 27 2 2 31 17 51 2 7 | 0 18 0 43 0n 1 0 43 0 19 0 42 0 38 0 42 0 57 0 41 | 23 27 0 1 23 27 0 1 23 28 0 1 | 12 0 1 26 11 58 1 26 11 55 1 26 11 53 1 26 11 51 1 27 | 19 14 0 15 19 13 0 15 | 20 11 1 31 20 11 1 31 20 12 1 31 | 12 22 17 33 12 22 17 33 12 23 17 33 12 24 17 34 | 13 34 13 13 35 14 13 36 14 13 37 14 13 39 14 | 5 59 21 4 6 0 21 6 7 1 21 9 7 2 21 11 7 4 21 13 | 8 15 0 47 8 16 0 47 8 17 0 47 8 19 0 46 8 20 0 46 |
| S 20 M21 T 22 W23 T 24 F 25 S 26 | 0 32 0 56 1 20 | 27 36 4 45 27 34 4 6 25 49 3 13 22 39 2 12 | 4 52 3 2 4 27 3 3 3 59 3 3 3 30 3 2 59 2 4 | 28 18 15 2 11 24 18 39 2 16 18 19 1 2 20 10 19 24 2 24 0 19 46 2 29 49 20 8 2 33 37 20 29 2 37 | 1 54 0 39 2 12 0 39 2 31 0 38 2 50 0 38 3 9 0 37 | 23 28 0 1 23 28 0 1 23 29 0 1 23 29 0 1 23 29 0 2 23 29 0 2 23 29 0 2 | 11 43 1 27 11 41 1 27 11 39 1 27 11 37 1 27 11 34 1 27 | 19 12 0 15 19 12 0 15 19 12 0 15 19 12 0 15 19 11 0 15 19 11 0 15 | 20 13 1 31 | 12 28 17 34 12 28 17 34 12 29 17 35 12 30 17 35 | 13 42 14 13 43 14 13 43 14 13 42 14 13 42 14 | 7 21 19 8 21 21 9 21 23 1 10 21 26 1 11 21 28 | 8 24 0 46 8 25 0 46 8 26 0 46 8 28 0 46 8 29 0 46 |
| S 27 M28 T 29 W30 T 31 | 2 30 2 54 3 17 3 41 4n 4 | 7 48 1 13 2 4 2 16 3n39 3 12 9 11 3 58 14n18 4n33 | 1 24 2 0 54 1 3 0 24 1 3 | 23 20 50 2 41 9 21 10 2 45 54 21 30 2 50 38 21 49 2 54 122 22n 8 2n58 | 4 4 0 35 4 23 0 35 4 41 0 34 | 23 30 0 2 23 30 0 2 23 30 0 2 23 30 0 2 23 30 0 2 23n30 0n 2 | 11 27 1 28 11 25 1 28 11 23 1 28 | 19 10 0 15 19 10 0 15 19 10 0 15 | 20 14 1 31 20 14 1 31 20 15 1 31 20 15 1 31 20n15 1 s31 | 12 33 17 35 12 33 17 35 | 13 43 14 13 44 14 13 47 14 | 14 21 34 15 21 36 16 21 38 | 8 33 0 46 8 34 0 45 8 36 0 45 |

Julian Day Number = 2352623.5, Delta T = 11.08 sec Ecliptic obliquity = 23°28'36, Nutation = $0^{\circ}00'11$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}57'34$, Lahiri = $20^{\circ}04'34$ Greg. Calendar

APRIL 1729 00:00 UT

| AI IV | · L 1/2. | • | | | | | | | | | | | | | 00.0 | 0. |
|-------|----------|-------------------|-----------------|-----------------|-----------------|----------------|-------|----------------|----------------|------|---------------|--------|-------|-------|----------------|------|
| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)∤(| 卉 | Р | S. | v | Ç | ķ | Day |
| F 1 | 12 37 13 | 11 Y 13'52 | 7 8 59 | 26°R11 | 26 8 54 | 14 Υ 41 | 28耳36 | 4) (19 | 26°R28 | 8П27 | 8°R59 | 22°R59 | 21≈41 | 16831 | 20 Υ 17 | F 1 |
| S 2 | 12 41 10 | 12°12'55 | 19°52 | 25) €47 | 27°54 | 15°27 | 28°44 | 4°26 | 26M27 | 8°28 | 8 ჲ 57 | 22≈49 | 21°38 | 16°37 | 20°21 | S 2 |
| S 3 | 12 45 6 | 13°11'57 | 1 П 43 | 25°29 | 28°54 | 16°12 | 28°51 | 4°32 | 26°25 | 8°29 | 8°56 | 22°41 | 21°35 | 16°44 | 20°25 | S 3 |
| M 4 | 12 49 3 | 14°10'56 | 13°36 | 25°16 | 29°54 | 16°58 | 28°58 | 4°38 | 26°23 | 8°31 | 8°54 | 22°35 | 21°32 | 16°51 | 20°28 | M 4 |
| T 5 | 12 52 59 | 15° 9'53 | 25°33 | 25° 9 | 0 Ⅱ 54 | 17°43 | 29° 6 | 4°44 | 26°22 | 8°32 | 8°52 | 22°30 | 21°29 | 16°57 | 20°32 | T 5 |
| W 6 | 12 56 56 | 16° 8'48 | 7939 | 25°D 7 | 1°53 | 18°29 | 29°14 | 4°50 | 26°20 | 8°34 | 8°51 | 22°28 | 21°25 | 17° 4 | 20°36 | W 6 |
| T 7 | 13 0 53 | 17° 7'40 | 19°59 | 25°10 | 2°51 | 19°14 | 29°21 | 4°56 | 26°18 | 8°35 | 8°49 | 22°D28 | 21°22 | 17°11 | 20°40 | T 7 |
| F 8 | 13 4 49 | 18° 6'31 | 2 Ω 38 | 25°19 | 3°49 | 19°59 | 29°29 | 5° 2 | 26°17 | 8°37 | 8°47 | 22°28 | 21°19 | 17°18 | 20°44 | F 8 |
| S 9 | 13 8 46 | 19° 5'18 | 15°39 | 25°32 | 4°47 | 20°45 | 29°38 | 5° 8 | 26°15 | 8°38 | 8°46 | 22°R29 | 21°16 | 17°24 | 20°47 | S 9 |
| S 10 | 13 12 42 | 20° 4'04 | 29° 8 | 25°51 | 5°44 | 21°30 | 29°46 | 5°14 | 26°13 | 8°40 | 8°44 | 22°29 | 21°13 | 17°31 | 20°51 | S 10 |
| M11 | 13 16 39 | 21° 2'47 | 13 m) 5 | 26°14 | 6°40 | 22°15 | 29°54 | 5°20 | 26°11 | 8°42 | 8°43 | 22°28 | 21° 9 | 17°38 | 20°55 | M11 |
| T 12 | 13 20 35 | 22° 1'28 | 27°30 | 26°41 | 7°36 | 23° 0 | 099 3 | 5°26 | 26° 9 | 8°43 | 8°41 | 22°23 | 21° 6 | 17°45 | 20°59 | T 12 |
| W13 | 13 24 32 | 23° 0'07 | 12 <u>₽</u> 20 | 27°13 | 8°31 | 23°45 | 0°11 | 5°32 | 26° 7 | 8°45 | 8°39 | 22°17 | 21° 3 | 17°51 | 21° 2 | W13 |
| T 14 | 13 28 28 | 23°58'44 | 27°26 | 27°49 | 9°26 | 24°30 | 0°20 | 5°37 | 26° 5 | 8°47 | 8°38 | 22° 9 | 21° 0 | 17°58 | 21° 6 | T 14 |
| F 15 | 13 32 25 | 24°57'19 | 12 M 40 | 28°29 | 10°21 | 25°15 | 0°29 | 5°43 | 26° 3 | 8°48 | 8°36 | 21°59 | 20°57 | 18° 5 | 21°10 | F 15 |
| S 16 | 13 36 22 | 25°55'53 | 27°50 | 29°13 | 11°14 | 26° 0 | 0°38 | 5°48 | 26° 1 | 8°50 | 8°35 | 21°50 | 20°54 | 18°11 | 21°14 | S 16 |
| S 17 | 13 40 18 | 26°54'24 | 12 √ 47 | 29°59 | 12° 7 | 26°45 | 0°47 | 5°54 | 25°59 | 8°52 | 8°33 | 21°42 | 20°50 | 18°18 | 21°17 | S 17 |
| M18 | 13 44 15 | 27°52'54 | 27°22 | 0 Υ 50 | 13° 0 | 27°30 | 0°56 | 5°59 | 25°57 | 8°54 | 8°31 | 21°37 | 20°47 | 18°25 | 21°21 | M18 |
| T 19 | 13 48 11 | 28°51'23 | 11 る 32 | 1°44 | 13°51 | 28°15 | 1° 5 | 6° 5 | 25°55 | 8°55 | 8°30 | 21°33 | 20°44 | 18°32 | 21°25 | T 19 |
| W20 | 13 52 8 | 29°49'49 | 25°16 | 2°41 | 14°42 | 28°59 | 1°15 | 6°10 | 25°53 | 8°57 | 8°28 | 21°D32 | 20°41 | 18°38 | 21°29 | W20 |
| T 21 | 13 56 4 | 0848'14 | 8 ≈ 35 | 3°40 | 15°33 | 29°44 | 1°24 | 6°15 | 25°51 | 8°59 | 8°27 | 21°32 | 20°38 | 18°45 | 21°32 | T 21 |
| F 22 | 14 0 1 | 1°46'38 | 21°32 | 4°43 | 16°22 | 0 8 29 | 1°34 | 6°20 | 25°49 | 9° 1 | 8°25 | 21°R32 | 20°34 | 18°52 | 21°36 | F 22 |
| S 23 | 14 3 57 | 2°45'00 | 4) €11 | 5°48 | 17°11 | 1°13 | 1°44 | 6°25 | 25°46 | 9° 3 | 8°24 | 21°32 | 20°31 | 18°59 | 21°40 | S 23 |
| S 24 | 14 7 54 | 3°43'20 | 16°36 | 6°56 | 17°59 | 1°58 | 1°53 | 6°30 | 25°44 | 9° 5 | 8°22 | 21°29 | 20°28 | 19° 5 | 21°44 | S 24 |
| M25 | 14 11 51 | 4°41'38 | 28°49 | 8° 7 | 18°46 | 2°42 | 2° 3 | 6°35 | 25°42 | 9° 7 | 8°21 | 21°24 | 20°25 | 19°12 | 21°47 | M25 |
| T 26 | 14 15 47 | 5°39'55 | 10 Y 55 | 9°19 | 19°32 | 3°27 | 2°13 | 6°40 | 25°39 | 9° 9 | 8°19 | 21°16 | 20°22 | 19°19 | 21°51 | T 26 |
| W27 | 14 19 44 | 6°38'11 | 22°55 | 10°35 | 20°18 | 4°11 | 2°24 | 6°45 | 25°37 | 9°11 | 8°18 | 21° 5 | 20°19 | 19°25 | 21°55 | W27 |
| T 28 | 14 23 40 | 7°36'24 | 4 8 51 | 11°52 | 21° 2 | 4°55 | 2°34 | 6°50 | 25°35 | 9°12 | 8°16 | 20°52 | 20°15 | 19°32 | 21°58 | T 28 |
| F 29 | 14 27 37 | 8°34'36 | 16°44 | 13°12 | 21°46 | 5°40 | 2°44 | 6°55 | 25°33 | 9°14 | 8°15 | 20°38 | 20°12 | 19°39 | 22° 2 | F 29 |
| S 30 | 14 31 33 | 9 8 32'46 | 28 8 36 | 14 Y 34 | 22 II 28 | 6824 | 2955 | 6 ∺ 59 | 25 M 30 | 9П16 | 8 ≏ 14 | 20≈25 | 20≈ 9 | 19846 | 22 ° 6 | S 30 |

| Day | 0 | Ş |) | ζ | 5 | 9 | 2 | ď | 4 | 2 | + | ŧ | ì |); | ξ(| j | ŧ. | E | 2 | n | v | Ç | ķ | |
|------|-------|-------|---------|------|---------|-------|------|-------|------|-------|------|-------|-------|--------|------|-------|-------|-------|-------|--------|--------|-------|------|------|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 4n27 | 18n51 | 4n56 | 0s30 | 1n 6 | 22n26 | 3n 1 | 5n17 | 0s33 | 23n31 | 0n 2 | 11s19 | 1 s28 | 19s 9 | 0n15 | 20n15 | 1 s30 | 12n35 | 17n35 | 13 s53 | 14 s18 | 21n42 | 8n38 | 0n45 |
| S 2 | 4 50 | 22 38 | 5 6 | 0 55 | 0 50 | 22 44 | 3 5 | 5 36 | 0 32 | 23 31 | 0 3 | 11 16 | 1 28 | 19 9 | 0 15 | 20 16 | 1 30 | 12 35 | 17 35 | 13 56 | 14 19 | 21 44 | 8 40 | 0 45 |
| S 3 | 5 13 | 25 28 | 5 3 | 1 16 | 0 34 | 23 1 | 3 9 | 5 54 | 0 32 | 23 31 | 0 3 | 11 14 | 1 29 | 19 8 | 0 15 | 20 16 | 1 30 | 12 36 | 17 35 | 13 58 | 14 20 | 21 46 | 8 41 | 0 45 |
| M 4 | 5 36 | | 4 46 | 1 36 | | - | 3 13 | 6 12 | | 23 31 | 0 3 | | | | - | 20 16 | | | 17 35 | | | 21 48 | 8 42 | 0 45 |
| T 5 | | 27 41 | 4 17 | 1 53 | 0 3 | | 3 17 | 6 30 | | 23 31 | 0 3 | | | | - | 20 17 | | | 17 35 | | | 21 50 | 8 44 | 0 45 |
| W 6 | - | 26 51 | 3 37 | 2 7 | 0011 | | 3 20 | 6 48 | | 23 31 | 0 3 | | 1 29 | | | 20 17 | | 12 38 | | | _ | 21 52 | 8 45 | 0 45 |
| T 7 | - | 24 42 | 2 45 | 2 19 | 0 26 | | 3 24 | 7 5 | | 23 32 | 0 3 | | | | | 20 17 | | 12 38 | | | 14 24 | - | 8 46 | 0 45 |
| F 8 | | 21 18 | 1 44 | 2 28 | 0 39 | | 3 27 | 7 23 | | 23 32 | 0 3 | | 1 29 | | | 20 17 | | 12 39 | | | | 21 56 | 8 48 | 0 45 |
| S 9 | 7 29 | 16 45 | 0 37 | 2 35 | 0 53 | 24 34 | 3 30 | 7 41 | 0 28 | 23 32 | 0 3 | 11 2 | 1 29 | 19 6 | 0 15 | 20 18 | 1 30 | 12 39 | 17 35 | 14 2 | 14 26 | 21 58 | 8 49 | 0 45 |
| S 10 | 7 51 | 11 14 | 0 s 3 5 | 2 39 | 1 5 | 24 48 | 3 34 | 7 58 | 0 28 | 23 32 | 0 3 | 11 0 | 1 30 | 19 5 | 0 15 | 20 18 | 1 30 | 12 40 | 17 34 | 14 2 | 14 27 | 22 0 | 8 50 | 0 44 |
| M11 | 8 14 | 5 0 | 1 48 | 2 40 | 1 17 | 25 1 | 3 37 | 8 16 | 0 27 | 23 32 | 0 3 | 10 58 | 1 30 | 19 5 | 0 15 | 20 18 | 1 30 | 12 41 | 17 34 | 14 3 | 14 28 | 22 2 | 8 52 | 0 44 |
| T 12 | 8 36 | 1 s41 | 2 55 | 2 40 | | | 3 40 | 8 33 | | 23 32 | 0 4 | | | - | | 20 19 | | | 17 34 | | 14 29 | | 8 53 | 0 44 |
| W13 | 8 57 | 8 27 | 3 53 | 2 37 | 1 38 | | 3 43 | 8 50 | | 23 32 | 0 4 | | 1 30 | | - | 20 19 | | | | | | - | 8 54 | 0 44 |
| T 14 | | 14 52 | 4 36 | 2 31 | 1 48 | | 3 46 | 9 7 | | 23 32 | 0 4 | | 1 30 | - | | 20 19 | | | 17 34 | | - | | 8 56 | 0 44 |
| F 15 | | 20 25 | 4 59 | 2 24 | 1 57 | | 3 48 | 9 24 | | 23 32 | 0 4 | | 1 30 | | | 20 19 | 1 30 | - | | | 14 32 | | 8 57 | 0 44 |
| S 16 | 10 2 | 24 36 | 5 2 | 2 14 | 2 5 | 25 58 | 3 51 | 9 41 | 0 24 | 23 32 | 0 4 | 10 48 | 1 31 | 19 3 | 0 15 | 20 20 | 1 30 | 12 43 | 17 34 | 14 15 | 14 33 | 22 12 | 8 58 | 0 44 |
| S 17 | 10 23 | 27 3 | 4 43 | 2 2 | 2 13 | 26 8 | 3 54 | 9 58 | 0 23 | 23 32 | 0 4 | 10 46 | 1 31 | 19 2 | 0 15 | 20 20 | 1 30 | 12 43 | 17 34 | 14 18 | 14 34 | 22 14 | 9 0 | 0 44 |
| M18 | 10 44 | 27 34 | 4 7 | 1 49 | 2 20 | 26 18 | 3 56 | 10 15 | 0 23 | 23 33 | 0 4 | 10 44 | 1 31 | 19 2 | 0 15 | 20 20 | 1 30 | 12 44 | 17 33 | 14 19 | 14 35 | 22 16 | 9 1 | 0 44 |
| T 19 | - | 26 13 | 3 16 | 1 33 | 2 26 | | | 10 31 | | 23 33 | 0 4 | 10 42 | 1 31 | - | 0 15 | 20 21 | 1 30 | | | | | 22 18 | 9 2 | 0 44 |
| W20 | - | 23 20 | - | - | | | | 10 48 | | 23 33 | 0 4 | | 1 31 | - | | 20 21 | 1 30 | - | | | | 22 20 | 9 4 | 0 44 |
| T 21 | | 19 15 | | | | | | 11 4 | | 23 33 | | 10 39 | | | | 20 21 | 1 30 | | | | | 22 22 | 9 5 | 0 44 |
| F 22 | - | 14 21 | 0 0 | | | | | 11 21 | | 23 33 | 0 5 | | 1 32 | - | | 20 22 | | 12 46 | | | | 22 24 | 9 6 | 0 44 |
| S 23 | 12 27 | 8 57 | 1n 7 | 0 13 | 2 45 | 26 56 | 4 6 | 11 37 | 0 19 | 23 33 | 0 5 | 10 35 | 1 32 | 18 59 | 0 15 | 20 22 | 1 30 | 12 46 | 17 32 | 14 21 | 14 40 | 22 26 | 9 8 | 0 44 |
| S 24 | 12 47 | 3 19 | 2 9 | 0n11 | 2 48 | | 4 7 | 11 53 | | 23 32 | 0 5 | | | 18 59 | | 20 22 | | 12 46 | | | | | 9 9 | 0 43 |
| M25 | 13 6 | 2n20 | 3 4 | 0 37 | 2 50 | 27 8 | | 12 9 | | 23 32 | 0 5 | | | 18 58 | 0 15 | 20 23 | 1 29 | | | | | 22 30 | 9 10 | 0 43 |
| T 26 | 13 26 | 7 51 | 3 50 | 1 4 | 2 52 | | | 12 24 | | 23 32 | 0 5 | | | 18 58 | | 20 23 | 1 29 | | | | 14 43 | | 9 12 | 0 43 |
| W27 | 13 45 | - | 4 25 | 1 32 | 2 53 | | | 12 40 | | 23 32 | 0 5 | | | 18 57 | | 20 23 | | | | | 14 44 | | 9 13 | 0 43 |
| T 28 | 14 4 | | 4 48 | 2 2 | | | | 12 56 | | 23 32 | 0 5 | | | 18 56 | | 20 24 | | - | | | 14 45 | | 9 14 | 0 43 |
| F 29 | _ | 21 38 | 4 59 | | | | 4 12 | _ | | 23 32 | 0 5 | | | 18 56 | | 20 24 | | - | | | 14 46 | | 9 16 | 0 43 |
| S 30 | 14n42 | 24n42 | 4n57 | 3n 6 | 2 s 5 3 | 27n28 | 4n13 | 13n26 | 0s15 | 23n32 | 0n 5 | 10s24 | 1 s33 | 18 s55 | 0n15 | 20n24 | 1 s29 | 12n48 | 17n31 | 14 s42 | 14 s47 | 22n39 | 9n17 | 0n43 |

 $\label{eq:Julian Day Number = 2352654.5, Delta T = 11.10 sec} \\ Ecliptic obliquity = 23°28'36, Nutation = 0°00'10, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°57'38, Lahiri = 20°04'38Greg. Calendar \\ \\$

MAY 1729 00:00 UT

| Day | Sid.t | 0 | D | ğ | Q | ď | 4 | ħ |)∤(| ¥ | Р | ß | v | Ç | ę, | Day |
|------|----------|------------------|-----------------|----------------|-----------------|----------------|---------------|-----------------|----------------|---------------|---------------|--------|----------------|----------------|----------------|------|
| S 1 | 14 35 30 | 10830'55 | 10 Ⅲ 28 | 15 Y 58 | 23 II 10 | 7 と 8 | 3 9 5 | 7) 4 | 25°R28 | 9 П 18 | 8°R12 | 20°R12 | 20≈ 6 | 19852 | 22Υ 9 | S 1 |
| M 2 | 14 39 26 | 11°29'02 | 22°22 | 17°25 | 23°50 | 7°52 | 3°16 | 7° 8 | 25 M 25 | 9°20 | 8 ₽ 11 | 20≈ 2 | 20° 3 | 19°59 | 22°13 | M 2 |
| T 3 | 14 43 23 | 12°27'06 | 49521 | 18°53 | 24°30 | 8°36 | 3°26 | 7°13 | 25°23 | 9°23 | 8°10 | 19°54 | 20° 0 | 20° 6 | 22°16 | T 3 |
| W 4 | 14 47 20 | 13°25'09 | 16°28 | 20°23 | 25° 8 | 9°20 | 3°37 | 7°17 | 25°21 | 9°25 | 8° 8 | 19°50 | 19°56 | 20°12 | 22°20 | W 4 |
| T 5 | 14 51 16 | 14°23'10 | 28°47 | 21°56 | 25°45 | 10° 4 | 3°48 | 7°21 | 25°18 | 9°27 | 8° 7 | 19°47 | 19°53 | 20°19 | 22°24 | T 5 |
| F 6 | 14 55 13 | 15°21'09 | $11\Omega_{23}$ | 23°30 | 26°20 | 10°48 | 3°59 | 7°25 | 25°16 | 9°29 | 8° 6 | 19°47 | 19°50 | 20°26 | 22°27 | F 6 |
| S 7 | 14 59 9 | 16°19'07 | 24°19 | 25° 7 | 26°55 | 11°32 | 4°10 | 7°29 | 25°13 | 9°31 | 8° 5 | 19°47 | 19°47 | 20°33 | 22°31 | S 7 |
| S 8 | 15 3 6 | 17°17'02 | 7 m 41 | 26°46 | 27°28 | 12°16 | 4°21 | 7°33 | 25°11 | 9°33 | 8° 3 | 19°46 | 19°44 | 20°39 | 22°34 | S 8 |
| M 9 | 15 7 2 | 18°14'55 | 21°31 | 28°26 | 27°59 | 13° 0 | 4°32 | 7°37 | 25° 8 | 9°35 | 8° 2 | 19°44 | 19°40 | 20°46 | 22°38 | M 9 |
| T 10 | 15 10 59 | 19°12'47 | 5 ≙ 50 | 0 8 9 | 28°29 | 13°43 | 4°44 | 7°41 | 25° 6 | 9°37 | 8° 1 | 19°39 | 19°37 | 20°53 | 22°41 | T 10 |
| W11 | 15 14 55 | 20°10'37 | 20°37 | 1°53 | 28°58 | 14°27 | 4°55 | 7°45 | 25° 3 | 9°39 | 8° 0 | 19°31 | 19°34 | 21° 0 | 22°45 | W11 |
| T 12 | 15 18 52 | 21° 8'25 | 5 M .44 | 3°40 | 29°25 | 15°10 | 5° 6 | 7°48 | 25° 1 | 9°41 | 7°59 | 19°22 | 19°31 | 21° 6 | 22°48 | T 12 |
| F 13 | 15 22 49 | 22° 6'12 | 21° 4 | 5°29 | 29°50 | 15°54 | 5°18 | 7°52 | 24°58 | 9°44 | 7°58 | 19°11 | 19°28 | 21°13 | 22°51 | F 13 |
| S 14 | 15 26 45 | 23° 3'58 | 6 ₹ 23 | 7°20 | 09514 | 16°37 | 5°29 | 7°55 | 24°56 | 9°46 | 7°57 | 19° 1 | 19°25 | 21°20 | 22°55 | S 14 |
| S 15 | 15 30 42 | 24° 1'42 | 21°32 | 9°12 | 0°36 | 17°21 | 5°41 | 7°59 | 24°53 | 9°48 | 7°56 | 18°51 | 19°21 | 21°26 | 22°58 | S 15 |
| M16 | 15 34 38 | 24°59'25 | 6 ප 20 | 11° 7 | 0°56 | 18° 4 | 5°53 | 8° 2 | 24°51 | 9°50 | 7°55 | 18°44 | 19°18 | 21°33 | 23° 2 | M16 |
| T 17 | 15 38 35 | 25°57'07 | 20°42 | 13° 4 | 1°14 | 18°48 | 6° 4 | 8° 5 | 24°48 | 9°52 | 7°54 | 18°40 | 19°15 | 21°40 | 23° 5 | T 17 |
| W18 | 15 42 31 | 26°54'48 | 4≈34 | 15° 3 | 1°30 | 19°31 | 6°16 | 8° 9 | 24°46 | 9°54 | 7°53 | 18°37 | 19°12 | 21°47 | 23° 8 | W18 |
| T 19 | 15 46 28 | 27°52'27 | 17°58 | 17° 3 | 1°44 | 20°14 | 6°28 | 8°12 | 24°43 | 9°57 | 7°52 | 18°D37 | 19° 9 | 21°53 | 23°11 | T 19 |
| F 20 | 15 50 24 | 28°50'06 | 0 ¥ 57 | 19° 6 | 1°56 | 20°57 | 6°40 | 8°15 | 24°41 | 9°59 | 7°51 | 18°R37 | 19° 6 | 22° 0 | 23°15 | F 20 |
| S 21 | 15 54 21 | 29°47'44 | 13°34 | 21°10 | 2° 7 | 21°40 | 6°52 | 8°18 | 24°38 | 10° 1 | 7°50 | 18°36 | 19° 2 | 22° 7 | 23°18 | S 21 |
| S 22 | 15 58 18 | 0 Ⅱ 45'20 | 25°54 | 23°15 | 2°15 | 22°23 | 7° 4 | 8°20 | 24°36 | 10° 3 | 7°49 | 18°34 | 18°59 | 22°14 | 23°21 | S 22 |
| M23 | 16 2 14 | 1°42'56 | 8 Y 2 | 25°23 | 2°20 | 23° 6 | 7°16 | 8°23 | 24°33 | 10° 5 | 7°48 | 18°29 | 18°56 | 22°20 | 23°24 | M23 |
| T 24 | 16 611 | 2°40'31 | 20° 2 | 27°31 | 2°24 | 23°49 | 7°28 | 8°26 | 24°31 | 10° 8 | 7°47 | 18°22 | 18°53 | 22°27 | 23°27 | T 24 |
| W25 | 16 10 7 | 3°38'04 | 1 8 56 | 29°41 | 2°R25 | 24°32 | 7°41 | 8°28 | 24°28 | 10°10 | 7°47 | 18°12 | 18°50 | 22°34 | 23°30 | W25 |
| T 26 | 16 14 4 | 4°35'37 | 13°48 | 1∏52 | 2°24 | 25°15 | 7°53 | 8°31 | 24°26 | 10°12 | 7°46 | 18° 0 | 18°46 | 22°40 | 23°33 | T 26 |
| F 27 | 16 18 0 | 5°33'09 | 25°40 | 4° 3 | 2°20 | 25°58 | 8° 5 | 8°33 | 24°23 | 10°14 | 7°45 | 17°47 | 18°43 | 22°47 | 23°36 | F 27 |
| S 28 | 16 21 57 | 6°30'40 | 7 Ⅲ 33 | 6°15 | 2°15 | 26°41 | 8°18 | 8°35 | 24°21 | 10°17 | 7°45 | 17°34 | 18°40 | 22°54 | 23°39 | S 28 |
| S 29 | 16 25 53 | 7°28'10 | 19°28 | 8°27 | 2° 6 | 27°23 | 8°30 | 8°37 | 24°19 | 10°19 | 7°44 | 17°22 | 18°37 | 23° 1 | 23°42 | S 29 |
| M30 | 16 29 50 | 8°25'39 | 19528 | 10°39 | 1°56 | 28° 6 | 8°43 | 8°39 | 24°16 | 10°21 | 7°43 | 17°12 | 18°34 | 23° 7 | 23°45 | M30 |
| T 31 | 16 33 47 | 9∏23'06 | 13934 | 12 Ⅲ 51 | 19543 | 28 8 49 | 8 9 55 | 8): (41 | 24MJ14 | 10Ⅲ23 | 7 ≏ 43 | 17≈ 5 | 18 ≈ 31 | 23 8 14 | 23 Y 48 | T 31 |

| Day | 0 | D | ğ | φ | ♂ | 4 | ħ |)Å(| ¥ | Р | n | ດ Ç | ķ |
|--|---|---|--|--|--|---|---|--|--|---|--|--|---|
| | decl | decl lat | decl lat | decl lat | lecl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl | decl decl | decl lat |
| S 1 M 2 T 3 W 4 T 5 F 6 | - | 27 29 4 14 26 59 3 35 25 12 2 46 22 12 1 48 | 4 14 2 5 4 49 2 4 5 26 2 4 6 4 2 4 | 12 27n30 4n13 13 10 27 32 4 13 13 17 27 34 4 12 14 15 27 35 4 12 14 11 27 36 4 11 14 17 27 36 4 10 14 | 56 0 14 11 0 13 26 0 12 40 0 12 | 23 31 0 0 23 31 0 0 23 31 0 0 | 5 10 21 1 34 5 10 20 1 34 5 10 18 1 34 5 10 17 1 34 | 18 54 0 15 18 54 0 15 18 53 0 15 18 53 0 15 | 20n25 1 s29 20 25 1 29 20 25 1 29 20 26 1 29 20 26 1 29 20 26 1 29 20 26 1 29 | 12 49 17 30 12 49 17 30 12 49 17 29 12 49 17 29 | 14 50 14 14 52 14 14 54 14 14 54 14 | 4 49 22 43 4 50 22 45 4 51 22 47 4 52 22 48 | 9n18 0n43 9 20 0 43 9 21 0 43 9 22 0 43 9 23 0 43 9 25 0 43 |
| S 7 | 16 45 | | | 32 27 35 4 10 14 32 27 35 4 9 15 | | | | | 20 26 1 29 20 27 1 29 | | | | 9 25 0 43 9 26 0 43 |
| S 8 M 9 T 10 W11 T 12 F 13 S 14 | 17 1 17 17 17 33 17 49 18 4 18 19 18 34 | 12 7 4 23 18 2 4 52 22 52 5 0 | 8 44 2 2 9 26 2 1 10 8 2 10 51 2 11 35 1 5 | | 37 0 9 51 0 9 4 0 8 18 0 7 31 0 7 | 23 30 0 0 23 30 0 0 23 29 0 0 23 29 0 0 23 29 0 0 | 5 10 12 1 35 5 10 10 1 35 5 10 9 1 35 5 10 8 1 36 5 10 7 1 36 | 18 50 0 15 18 50 0 15 18 49 0 15 18 48 0 15 18 48 0 15 | 20 27 1 29 20 27 1 29 20 28 1 29 20 28 1 29 20 28 1 29 20 28 1 29 20 29 1 29 20 29 1 29 | 12 50 17 28 12 50 17 27 12 50 17 27 12 50 17 27 12 50 17 26 | 14 55 14 14 57 14 14 59 14 15 2 14 15 6 15 | 1 56 22 56 1 57 22 58 1 58 22 59 1 59 23 1 5 0 23 3 | 9 27 0 43 9 28 0 43 9 30 0 42 9 31 0 42 9 32 0 42 9 33 0 42 9 35 0 42 |
| S 15 M16 T 17 W18 T 19 F 20 S 21 | 19 3 19 16 19 30 | 24 13 2 22 20 20 1 14 15 31 0 3 10 9 1n 5 | 13 47 1 2 14 31 1 1 15 16 1 1 16 0 1 16 43 0 5 | 9 27 9 3 41 17 0 27 4 3 36 17 0 26 59 3 31 17 | 10 0 5 22 0 4 35 0 4 47 0 3 59 0 2 | 23 27 0 2 23 27 0 2 23 27 0 2 23 26 0 2 | 7 10 4 1 36 7 10 3 1 37 7 10 2 1 37 7 10 1 1 37 7 10 0 1 37 | 18 46 0 15 18 45 0 15 18 45 0 15 18 44 0 15 18 44 0 15 | 20 29 1 29 20 30 1 29 20 30 1 29 20 30 1 29 20 31 1 29 20 31 1 29 20 31 1 29 20 31 1 29 | 12 51 17 25 12 51 17 25 12 51 17 24 12 51 17 24 12 50 17 23 | 15 14 15 15 15 15 15 16 15 15 16 15 15 16 15 | 5 3 23 8 5 4 23 10 5 5 23 12 5 6 23 14 5 7 23 15 | 9 36 0 42 9 37 0 42 9 38 0 42 9 39 0 42 9 41 0 42 9 42 0 42 9 43 0 42 |
| T 24 W25 T 26 F 27 | 20 55 | 6 43 3 50 11 56 4 25 16 41 4 49 20 46 5 0 24 1 4 58 | 18 50 0 1 19 31 0 20 10 0n 20 47 0 1 21 23 0 2 | 8 26 26 2 59 18 | 34 0 0 46 0n 0 57 0 1 8 0 2 19 0 2 | 23 24 0 3 | 7 9 57 1 38 7 9 56 1 38 7 9 56 1 38 8 9 55 1 39 8 9 54 1 39 | 18 42 0 15 18 41 0 15 18 41 0 15 18 40 0 15 18 39 0 15 | 20 32 1 29 20 32 1 29 20 32 1 29 20 33 1 29 20 33 1 29 20 33 1 29 20 34 1 29 | 12 50 17 22 12 50 17 22 12 50 17 21 12 50 17 21 12 50 17 20 | 15 19 15 15 21 15 15 24 15 15 28 15 15 32 15 | 5 10 23 20 5 11 23 22 5 12 23 24 5 13 23 26 5 14 23 27 | 9 44 0 42 9 45 0 42 9 46 0 42 9 47 0 42 9 48 0 42 9 49 0 42 9 50 0 42 |
| M30 | 21 35 21 45 21n54 | 27 5 3 37 | 22 58 0 5 | 25 43 2 16 19 33 25 33 2 6 19 2 25n23 1n55 20 | 50 0 4 | 23 20 0 8 23 19 0 8 23n19 0n 8 | 9 52 1 40 | 18 38 0 15 | 20 34 1 29 | 12 49 17 19 12 49 17 19 12n49 17n18 | 15 42 15 | 5 17 23 32 | 9 52 0 41 9 53 0 41 9n54 0n41 |

Julian Day Number = 2352684.5, Delta T = 11.11 sec Ecliptic obliquity = $23^{\circ}28'35$, Nutation = $0^{\circ}00'09$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}57'42$, Lahiri = $20^{\circ}04'42$ Greg. Calendar

JUNE 1729 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)∤(| 卉 | Р | រា | v | Ç | ķ | Day |
|------|----------|-------------------|-----------------|-----------------|-------|----------------|--------|----------------|----------------|-----------------|---------------|--------|-------|----------------|----------------|------|
| W 1 | 16 37 43 | 10 Ⅲ 20'33 | 259647 | 15 I I 2 | 1°R27 | 29831 | 999 8 | 8) (43 | 24°R11 | 10耳26 | 7°R42 | 17°R 0 | 18≈27 | 23821 | 23 Y 51 | W 1 |
| T 2 | 16 41 40 | 11°17'58 | 8 Ω 12 | 17°12 | 195 9 | 0∐14 | 9°21 | 8°45 | 24M 9 | 10°28 | 7 - 42 | 16≈58 | 18°24 | 23°28 | 23°54 | T 2 |
| F 3 | 16 45 36 | 12°15'23 | 20°51 | 19°21 | 0°49 | 0°56 | 9°33 | 8°47 | 24° 7 | 10°30 | 7°41 | 16°D58 | 18°21 | 23°34 | 23°57 | F 3 |
| S 4 | 16 49 33 | 13°12'46 | 3 m 48 | 21°28 | 0°27 | 1°38 | 9°46 | 8°48 | 24° 4 | 10°32 | 7°41 | 16°59 | 18°18 | 23°41 | 23°59 | S 4 |
| S 5 | 16 53 29 | 14°10'08 | 17° 6 | 23°34 | 0° 2 | 2°21 | 9°59 | 8°50 | 24° 2 | 10°35 | 7°40 | 16°R59 | 18°15 | 23°48 | 24° 2 | S 5 |
| M 6 | 16 57 26 | 15° 7'29 | 0 ჲ 49 | 25°39 | 29Ⅲ35 | 3° 3 | 10°12 | 8°51 | 24° 0 | 10°37 | 7°40 | 16°58 | 18°12 | 23°54 | 24° 5 | M 6 |
| T 7 | 17 1 22 | 16° 4'48 | 14°57 | 27°41 | 29° 7 | 3°45 | 10°24 | 8°52 | 23°58 | 10°39 | 7°39 | 16°55 | 18° 8 | 24° 1 | 24° 8 | T 7 |
| W 8 | 17 5 19 | 17° 2'07 | 29°31 | 29°42 | 28°37 | 4°27 | 10°37 | 8°54 | 23°55 | 10°41 | 7°39 | 16°49 | 18° 5 | 24° 8 | 24°10 | W 8 |
| T 9 | 17 9 16 | 17°59'25 | 14ML26 | 19540 | 28° 5 | 5° 9 | 10°50 | 8°55 | 23°53 | 10°44 | 7°39 | 16°42 | 18° 2 | 24°15 | 24°13 | T 9 |
| F 10 | 17 13 12 | 18°56'42 | 29°34 | 3°36 | 27°31 | 5°52 | 11° 3 | 8°56 | 23°51 | 10°46 | 7°39 | 16°34 | 17°59 | 24°21 | 24°15 | F 10 |
| S 11 | 17 17 9 | 19°53'59 | 14 ₹ 46 | 5°30 | 26°56 | 6°34 | 11°16 | 8°57 | 23°49 | 10°48 | 7°38 | 16°26 | 17°56 | 24°28 | 24°18 | S 11 |
| S 12 | 17 21 5 | 20°51'15 | 29°52 | 7°22 | 26°21 | 7°15 | 11°29 | 8°57 | 23°47 | 10°50 | 7°38 | 16°18 | 17°52 | 24°35 | 24°20 | S 12 |
| M13 | 17 25 2 | 21°48'30 | 14 පි 41 | 9°11 | 25°44 | 7°57 | 11°42 | 8°58 | 23°44 | 10°52 | 7°38 | 16°13 | 17°49 | 24°41 | 24°23 | M13 |
| T 14 | 17 28 58 | 22°45'45 | 29° 7 | 10°58 | 25° 7 | 8°39 | 11°55 | 8°59 | 23°42 | 10°55 | 7°38 | 16°10 | 17°46 | 24°48 | 24°25 | T 14 |
| W15 | 17 32 55 | 23°42'59 | 13 ≈ 6 | 12°43 | 24°29 | 9°21 | 12° 8 | 8°59 | 23°40 | 10°57 | 7°38 | 16°D 8 | 17°43 | 24°55 | 24°27 | W15 |
| T 16 | 17 36 52 | 24°40'13 | 26°37 | 14°25 | 23°51 | 10° 3 | 12°21 | 9° 0 | 23°38 | 10°59 | 7°38 | 16° 9 | 17°40 | 25° 2 | 24°29 | T 16 |
| F 17 | 17 40 48 | 25°37'27 | 9) (40 | 16° 5 | 23°14 | 10°44 | 12°35 | 9° 0 | 23°36 | 11° 1 | 7°38 | 16°10 | 17°37 | 25° 8 | 24°32 | F 17 |
| S 18 | 17 44 45 | 26°34'41 | 22°21 | 17°43 | 22°37 | 11°26 | 12°48 | 9° 0 | 23°34 | 11° 3 | 7°D38 | 16°R11 | 17°33 | 25°15 | 24°34 | S 18 |
| S 19 | 17 48 41 | 27°31'55 | 4 Υ43 | 19°18 | 22° 0 | 12° 8 | 13° 1 | 9° 0 | 23°32 | 11° 6 | 7°38 | 16°10 | 17°30 | 25°22 | 24°36 | S 19 |
| M20 | 17 52 38 | 28°29'08 | 16°51 | 20°50 | 21°25 | 12°49 | 13°14 | 9°R 0 | 23°30 | 11° 8 | 7°38 | 16° 8 | 17°27 | 25°29 | 24°38 | M20 |
| T 21 | 17 56 34 | 29°26'21 | 28°49 | 22°21 | 20°50 | 13°31 | 13°28 | 9° 0 | 23°29 | 11°10 | 7°38 | 16° 5 | 17°24 | 25°35 | 24°40 | T 21 |
| W22 | 18 0 31 | 0923'35 | 10842 | 23°48 | 20°17 | 14°12 | 13°41 | 9° 0 | 23°27 | 11°12 | 7°38 | 15°59 | 17°21 | 25°42 | 24°42 | W22 |
| T 23 | 18 4 27 | 1°20'48 | 22°34 | 25°14 | 19°45 | 14°54 | 13°54 | 9° 0 | 23°25 | 11°14 | 7°38 | 15°52 | 17°18 | 25°49 | 24°44 | T 23 |
| F 24 | 18 8 24 | 2°18'02 | 4 Ⅱ 26 | 26°36 | 19°14 | 15°35 | 14° 7 | 8°59 | 23°23 | 11°16 | 7°38 | 15°44 | 17°14 | 25°55 | 24°46 | F 24 |
| S 25 | 18 12 21 | 3°15'15 | 16°23 | 27°56 | 18°46 | 16°16 | 14°21 | 8°59 | 23°21 | 11°18 | 7°38 | 15°36 | 17°11 | 26° 2 | 24°48 | S 25 |
| S 26 | 18 16 17 | 4°12'28 | 28°25 | 29°14 | 18°19 | 16°57 | 14°34 | 8°58 | 23°20 | 11°21 | 7°39 | 15°29 | 17° 8 | 26° 9 | 24°50 | S 26 |
| M27 | 18 20 14 | 5° 9'41 | 10933 | 0 Ω 29 | 17°55 | 17°39 | 14°47 | 8°57 | 23°18 | 11°23 | 7°39 | 15°23 | 17° 5 | 26°16 | 24°51 | M27 |
| T 28 | 18 24 10 | 6° 6'54 | 22°51 | 1°41 | 17°32 | 18°20 | 15° 1 | 8°57 | 23°16 | 11°25 | 7°39 | 15°19 | 17° 2 | 26°22 | 24°53 | T 28 |
| W29 | 18 28 7 | 7° 4'07 | 5 Ω 18 | 2°51 | 17°12 | 19° 1 | 15°14 | 8°56 | 23°15 | 11°27 | 7°40 | 15°17 | 16°58 | 26°29 | 24°55 | W29 |
| T 30 | 18 32 3 | 895 1'19 | $17\Omega56$ | 3Ω 57 | 16耳54 | 19 ∏ 42 | 159528 | 8) 55 | 23 M 13 | 11 II 29 | 7 ≗ 40 | 15°D16 | 16≈55 | 26 8 36 | 24 Y 57 | T 30 |

| Day | 0 | D | | ğ | | φ | 1 | С | 7 | 2 | ł | ŧ | ì |) | ţ(| , | (| Е |) | ß | U | ţ | Ł | 5 |
|---------------------|-------------------------|---------|--------------|---|--------------|------------------------|--------------|---------------------------------------|----------------------|-------------------------|----------------------|----------------------|--------------|---------------------------------------|------|---------------------------------------|----------------------|-------|-------|---------|-------------------------|---------------------------------------|-------------------------|----------------------|
| | decl | decl la | at | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 T 2 | 22n 2 22 10 | - | | 23n49 24 10 | 1n11 1 19 | | | 20n10 20 20 | | 23n18 23 17 | 0n 8 0 8 | 9s51 9 51 | | 18 s 3 7 18 3 6 | | 20n35 20 35 | 1 s29 1 29 | | | | | 23n36 23 37 | 9n55 9 56 | 0n41 0 41 |
| F 3 S 4 | 22 18 22 25 | | | 24 2924 45 | | 24 49 24 37 | | 20 29 20 39 | | 23 16 23 15 | 0 8 0 8 | 9 51 9 50 | 1 41 1 41 | | | 20 36 20 36 | 1 29 1 29 | 12 48 | 17 17 | 15 46 | 15 21 | 23 39 | 9 57 9 58 | 0 41 0 41 |
| S 5 M 6 | 22 32 22 39 | - | 2 33 3 32 | 24 58 25 9 | 1 39 1 45 | | | 20 48 20 57 | 0 8 | 23 14 23 14 | 0 8 | 9 50 9 50 | 1 41 1 41 | 18 34 18 34 | | 20 36 20 37 | 1 29 1 29 | | | | | 23 42 23 44 | 9 59 9 59 | 0 41 0 41 |
| T 7 W 8 | 22 45 | 9 53 | 4 19 | 25 17 25 22 | 1 49 | | 0 30 | | 0 9 | | 0 9 0 9 | 9 49 9 49 | 1 41 | 18 33 | 0 15 | 20 37 20 37 | 1 29 1 29 | 12 47 | 17 15 | 15 47 | 15 25 | 23 46 | 10 0 10 1 | 0 41 0 41 |
| T 9 F 10 | 23 1 | 24 55 | 4 57 | 25 24 25 24 | | 23 16 | 0s11 | 21 22 21 30 | 0 11 | 23 11 23 10 | 0 9 0 9 | 9 49 9 49 | 1 42 | 18 32 18 32 | 0 15 | 20 38 20 38 | 1 29 | 12 46 | 17 13 | 15 54 | 15 28 | 23 49 23 50 | 10 3 | 0 41 0 41 |
| S 11 S 12 | 23 5 23 10 | | | 25 2225 17 | 2 0 2 1 | 23 1 22 46 | | 21 3821 46 | 0 12 0 12 | | 0 9 0 9 | 9 49 9 49 | | 18 3118 31 | | 20 3820 38 | 1 29 1 29 | | | | | 23 5223 54 | | 0 41 |
| M13 T 14 | 23 17 | 21 50 | 1 30 | | 2 1 2 1 | 22 16 | 1 7 | 21 53 22 0 | 0 14 | 23 6 | 0 9 0 9 | 9 49 9 48 | 1 43 | 18 30 18 30 | 0 15 | 20 39 20 39 | 1 29 | 12 44 | 17 11 | 16 1 | 15 32 | 23 55 23 57 | 10 7 | 0 41 0 41 |
| W15 T 16 F 17 | | 11 47 | 0n56 | 24 5124 3924 24 | | 22 0 21 45 21 29 | | 22 7 22 14 | 0 14 0 15 0 16 | 23 3 | 0 9 0 9 0 9 | 9 49 9 49 9 49 | 1 44 | | 0 15 | 20 39 20 40 20 40 | 1 29 1 29 1 29 | 12 43 | 17 10 | 16 1 | 15 33 15 34 15 35 | - | 10 7 10 8 10 9 | 0 41 0 41 0 41 |
| S 18 | 23 26 | 0 15 | 3 2 | 24 9 | 1 52 | 21 14 | 2 3 | 22 27 | 0 16 | 23 1 | 0 10 | 9 49 | 1 44 | 18 28 | 0 14 | 20 40 | 1 29 | 12 42 | 17 9 | 16 1 | 15 36 | 24 3 | 10 10 | 0 41 |
| S 19 M20 T 21 | 23 27 23 28 | 10 46 | 4 29 | 23 52 23 33 | 1 43 | 20 58 20 43 | 2 29 | 22 34 22 40 | 0 18 | 22 59 | 0 10 0 10 | 9 49 9 49 | 1 45 | 18 27 18 27 | 0 14 | 20 41 20 41 | 1 29 | 12 41 | 17 8 | 16 1 | 15 38 | | 10 11 | 0 41 0 40 |
| W22 T 23 | 23 29 23 29 23 28 | 19 54 | 5 6 | 23 14 22 53 22 31 | | 20 29 20 14 20 1 | 2 53 | 22 45 22 51 22 56 | 0 19 | 22 57 22 56 22 55 | 0 10 0 10 0 10 | 9 50 9 50 9 50 | 1 45 | 18 26 18 26 18 25 | 0 14 | 20 41 20 41 20 42 | 1 29 1 29 1 29 | 12 40 | 17 7 | 16 4 | 15 39 15 40 15 41 | | 10 12 10 13 10 13 | 0 40 0 40 0 40 |
| F 24 S 25 | 23 27 | 25 50 | 4 52 | | 1 18 | 19 47 19 34 | 3 16 3 26 | 23 2 | 0 20 | 22 54 22 52 | 0 10 0 10 | 9 50 9 51 | 1 46 | 18 25 18 25 | 0 14 | 20 42 20 42 | 1 29 1 29 | 12 39 | 17 6 | 16 9 | 15 42 | 24 12 24 14 | 10 14 | 0 40 0 40 |
| S 26 M27 | | | - | 21 21 20 57 | 1 2 0 53 | | 3 37 3 46 | 23 11 23 16 | | 22 51 22 50 | 0 10 0 10 | 9 51 9 52 | | 18 24 18 24 | - | 20 43 20 43 | | | | | | 24 15 24 17 | | 0 40 0 40 |
| T 28 W29 | 23 17 | 19 51 | 0 54 | | 0 44 0 34 | 18 49 | 4 3 | 23 20 23 24 | 0 23 | 22 48 22 47 | 0 10 0 11 | 9 52 9 53 | 1 47 | 18 23 18 23 | 0 14 | 20 43 20 43 | 1 29 | 12 36 | 17 3 | 16 17 | 15 46 | 24 18 24 20 | 10 17 | 0 40 0 40 |
| T 30 | 23n14 | 15n15 | 0s15 | 19n41 | 0n24 | 18n40 | 4s11 | 23n28 | 0n24 | 22n45 | 0n11 | 9 s 5 3 | 1 s47 | 18 s23 | 0n14 | 20n44 | 1 s29 | 12n36 | 17n 3 | 16 s 17 | 15 s47 | 24n21 | 10n18 | 0n40 |

 $\label{eq:Julian Day Number = 2352715.5, Delta T = 11.12 sec} \\ Ecliptic obliquity = 23°28'34, Nutation = 0°00'11, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°57'46, Lahiri = 20°04'47Greg. Calendar$

JULY 1729 00:00 UT

| | _,_, | | | | | | | | | | | | | | •••• | |
|------|----------|--------------------|-----------------|---------------|--------|-----------------|--------|----------------|----------------|-----------------|---------------|--------|-------|--------------|----------------|------|
| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)∤(| 卉 | Р | S. | v | Ç | ę, | Day |
| F 1 | 18 36 0 | 8958'32 | 0 m)47 | 5 Ω 1 | 16°R38 | 20 II 23 | 159541 | 8°R54 | 23°R12 | 11 I I31 | 7 ≙ 41 | 15≈17 | 16≈52 | 26842 | 24 Y 58 | F 1 |
| S 2 | 18 39 56 | 9°55'44 | 13°54 | 6° 2 | 16耳25 | 21° 4 | 15°54 | 8 ¥ 53 | 23 M 10 | 11°33 | 7°41 | 15°19 | 16°49 | 26°49 | 25° 0 | S 2 |
| S 3 | 18 43 53 | 10°52'56 | 27°17 | 6°59 | 16°14 | 21°45 | 16° 8 | 8°51 | 23° 9 | 11°35 | 7°41 | 15°20 | 16°46 | 26°56 | 25° 1 | S 3 |
| M 4 | 18 47 50 | 11°50'07 | 10 ≏ 59 | 7°53 | 16° 6 | 22°26 | 16°21 | 8°50 | 23° 8 | 11°37 | 7°42 | 15°R21 | 16°43 | 27° 3 | 25° 2 | M 4 |
| T 5 | 18 51 46 | 12°47'19 | 25° 0 | 8°45 | 15°59 | 23° 6 | 16°35 | 8°48 | 23° 6 | 11°39 | 7°43 | 15°20 | 16°39 | 27° 9 | 25° 4 | T 5 |
| W 6 | 18 55 43 | 13°44'30 | 9 M 20 | 9°32 | 15°56 | 23°47 | 16°48 | 8°47 | 23° 5 | 11°41 | 7°43 | 15°18 | 16°36 | 27°16 | 25° 5 | W 6 |
| T 7 | 18 59 39 | 14°41'42 | 23°56 | 10°16 | 15°D54 | 24°28 | 17° 2 | 8°45 | 23° 4 | 11°43 | 7°44 | 15°15 | 16°33 | 27°23 | 25° 6 | T 7 |
| F 8 | 19 3 36 | 15°38'53 | 8 ∡ 743 | 10°56 | 15°55 | 25° 8 | 17°15 | 8°43 | 23° 2 | 11°45 | 7°44 | 15°11 | 16°30 | 27°30 | 25° 8 | F 8 |
| S 9 | 19 7 32 | 16°36'05 | 23°34 | 11°33 | 15°58 | 25°49 | 17°29 | 8°42 | 23° 1 | 11°47 | 7°45 | 15° 7 | 16°27 | 27°36 | 25° 9 | S 9 |
| S 10 | 19 11 29 | 17°33'16 | 8 국 22 | 12° 5 | 16° 3 | 26°30 | 17°42 | 8°40 | 23° 0 | 11°49 | 7°46 | 15° 4 | 16°24 | 27°43 | 25°10 | S 10 |
| M11 | 19 15 26 | 18°30'28 | 22°58 | 12°33 | 16°11 | 27°10 | 17°55 | 8°38 | 22°59 | 11°51 | 7°47 | 15° 1 | 16°20 | 27°50 | 25°11 | M11 |
| T 12 | 19 19 22 | 19°27'40 | 7≈16 | 12°57 | 16°21 | 27°50 | 18° 9 | 8°36 | 22°58 | 11°52 | 7°47 | 15° 0 | 16°17 | 27°56 | 25°12 | T 12 |
| W13 | 19 23 19 | 20°24'53 | 21°12 | 13°17 | 16°32 | 28°31 | 18°22 | 8°33 | 22°57 | 11°54 | 7°48 | 15°D 0 | 16°14 | 28° 3 | 25°13 | W13 |
| T 14 | 19 27 15 | 21°22'06 | 4) (43 | 13°32 | 16°46 | 29°11 | 18°36 | 8°31 | 22°56 | 11°56 | 7°49 | 15° 1 | 16°11 | 28°10 | 25°14 | T 14 |
| F 15 | 19 31 12 | 22°19'20 | 17°50 | 13°42 | 17° 2 | 29°51 | 18°49 | 8°29 | 22°55 | 11°58 | 7°50 | 15° 2 | 16° 8 | 28°17 | 25°15 | F 15 |
| S 16 | 19 35 8 | 23°16'34 | 0 Υ 35 | 13°48 | 17°20 | 0932 | 19° 3 | 8°26 | 22°54 | 12° 0 | 7°51 | 15° 3 | 16° 4 | 28°23 | 25°15 | S 16 |
| S 17 | 19 39 5 | 24°13'50 | 13° 0 | 13°R48 | 17°39 | 1°12 | 19°16 | 8°24 | 22°54 | 12° 1 | 7°52 | 15° 5 | 16° 1 | 28°30 | 25°16 | S 17 |
| M18 | 19 43 1 | 25°11'06 | 25°11 | 13°44 | 18° 1 | 1°52 | 19°29 | 8°21 | 22°53 | 12° 3 | 7°53 | 15°R 5 | 15°58 | 28°37 | 25°17 | M18 |
| T 19 | 19 46 58 | 26° 8'23 | 7 8 10 | 13°35 | 18°24 | 2°32 | 19°43 | 8°18 | 22°52 | 12° 5 | 7°54 | 15° 5 | 15°55 | 28°43 | 25°17 | T 19 |
| W20 | 19 50 55 | 27° 5'40 | 19° 4 | 13°21 | 18°49 | 3°12 | 19°56 | 8°16 | 22°52 | 12° 7 | 7°55 | 15° 3 | 15°52 | 28°50 | 25°18 | W20 |
| T 21 | 19 54 51 | 28° 2'59 | 0 耳 57 | 13° 2 | 19°15 | 3°52 | 20°10 | 8°13 | 22°51 | 12° 8 | 7°56 | 15° 1 | 15°49 | 28°57 | 25°19 | T 21 |
| F 22 | 19 58 48 | 29° 0'19 | 12°51 | 12°38 | 19°43 | 4°32 | 20°23 | 8°10 | 22°51 | 12°10 | 7°57 | 14°59 | 15°45 | 29° 4 | 25°19 | F 22 |
| S 23 | 20 2 44 | 29°57'39 | 24°52 | 12°10 | 20°12 | 5°12 | 20°36 | 8° 7 | 22°50 | 12°12 | 7°58 | 14°57 | 15°42 | 29°10 | 25°19 | S 23 |
| S 24 | 20 641 | 0 Ω 55'01 | 7 9 5 1 | 11°38 | 20°43 | 5°52 | 20°50 | 8° 4 | 22°50 | 12°13 | 7°59 | 14°55 | 15°39 | 29°17 | 25°20 | S 24 |
| M25 | 20 10 37 | 1°52'23 | 19°21 | 11° 2 | 21°16 | 6°32 | 21° 3 | 8° 1 | 22°49 | 12°15 | 8° 1 | 14°53 | 15°36 | 29°24 | 25°20 | M25 |
| T 26 | 20 14 34 | 2°49'46 | 1 Ω 53 | 10°23 | 21°49 | 7°12 | 21°16 | 7°57 | 22°49 | 12°17 | 8° 2 | 14°52 | 15°33 | 29°31 | 25°20 | T 26 |
| W27 | 20 18 30 | 3°47'10 | 14°38 | 9°41 | 22°24 | 7°51 | 21°30 | 7°54 | 22°49 | 12°18 | 8° 3 | 14°D52 | 15°30 | 29°37 | 25°20 | W27 |
| T 28 | 20 22 27 | 4°44'35 | 27°36 | 8°57 | 23° 0 | 8°31 | 21°43 | 7°51 | 22°48 | 12°20 | 8° 4 | 14°52 | 15°26 | 29°44 | 25°21 | T 28 |
| F 29 | 20 26 24 | 5°42'00 | 10 m /48 | 8°12 | 23°38 | 9°11 | 21°56 | 7°47 | 22°48 | 12°21 | 8° 6 | 14°53 | 15°23 | 29°51 | 25°21 | F 29 |
| S 30 | 20 30 20 | 6°39'26 | 24°14 | 7°26 | 24°16 | 9°50 | 22° 9 | 7°44 | 22°48 | 12°23 | 8° 7 | 14°53 | 15°20 | 29°57 | 25°R21 | S 30 |
| S 31 | 20 34 17 | 7 Ω 36′53 | 7 ≙ 52 | 6 Ω 41 | 24耳56 | 10930 | 22922 | 7) €40 | 22 M 48 | 12 Ⅱ 24 | 8 亚 8 | 14≈54 | 15≈17 | 0 Ⅱ 4 | 25 Y 21 | S 31 |

| Day | 0 | D | ğ | | 2 (| 3 | 2 | ł | ħ | 1 |); | β (| 卉 | | Р | IJ | Ω | Ç | Š | |
|--|--|---|--|---|--|--|---|--|--------------------------------------|--|---|--|--|--|--|--|--|---|---|---|
| | decl | decl lat | decl | lat decl | lat decl | lat | decl | lat | decl | lat | decl | lat | decl lat | dec | l lat | decl | decl | decl | decl | lat |
| F 1 S 2 | 23n10 23 6 | 9n54 1s24 4 3 2 30 | 19n16 18 50 | 0n13 18n31 0 2 18 23 | | | 22n44 22 42 | 0n11 0 11 | 9 s 5 4 9 5 5 | - | 18 s22 18 22 | | 20n44 1 s2 20 44 1 2 | | 5 17n 2 4 17 2 | | | 24n23 24 24 | 10n18 10 19 | 0n40 0 40 |
| S 3 M 4 T 5 W 6 T 7 | 23 2 22 57 22 52 22 46 22 40 | 8 18 4 18 14 14 4 53 19 31 5 11 | | 0s 9 18 16 0 21 18 9 0 34 18 4 0 47 17 59 1 0 17 54 | 4 37 23 42 4 42 23 45 4 47 23 47 | 0 26 0 27 0 27 | 22 41 22 39 22 38 22 36 22 35 | 0 11 0 11 0 11 0 11 0 11 | 9 55 9 56 9 57 9 58 9 59 | 1 48 1 48 1 48 | | 0 14 0 14 0 14 | 20 44 1 2 20 45 1 2 20 45 1 2 20 45 1 2 20 45 1 2 | 9 12 3 9 12 3 | | 16 16 16 16 16 16 | 15 51 15 52 15 53 | 24 30 | 10 20 10 20 10 20 | 0 40 0 40 0 40 0 40 0 40 |
| F 8 S 9 | 22 33 | 26 30 4 46 | 6 16 20 5 15 57 | 1 13 17 51 1 27 17 48 | 4 55 23 52 | 0 29 | 22 33 22 31 | 0 11 0 11 | 9 59 10 0 | 1 49 | | 0 14 | 20 46 1 2 20 46 1 2 | 9 12 3 | 0 16 58 9 16 58 | 16 18 | 15 55 | 24 33 | 10 21 | 0 40 0 40 |
| | | 23 27 1 58 19 10 0 42 13 55 0n34 8 9 1 46 2 12 2 51 | 2 14 53 14 34 5 14 16 | | 5 3 23 57 5 5 23 59 5 6 24 0 5 8 24 1 5 8 24 2 | 0 31 0 31 0 32 0 32 0 33 | 22 30 22 28 22 26 22 25 22 23 22 21 22 19 | 0 12 0 12 0 12 0 12 0 12 0 12 0 12 | 10 2 10 3 10 4 10 5 10 6 | 1 49 1 50 1 50 1 50 1 50 | 18 20 18 19 18 19 18 19 18 19 18 18 18 18 | 0 14 0 14 0 14 0 14 0 14 | 20 46 1 2 20 46 1 2 20 47 1 2 | 9 12 2 9 12 2 9 12 2 9 12 2 9 12 2 | 8 16 57 8 16 57 7 16 56 6 16 56 5 16 55 4 16 55 4 16 54 | 16 21 16 22 16 22 16 21 16 21 | 15 58 15 59 16 0 16 1 16 2 | 24 37 24 38 | 10 22 10 23 10 23 10 23 10 24 | 0 40 0 40 0 40 0 39 0 39 0 39 0 39 |
| S 17 M18 T 19 W20 T 21 F 22 S 23 | 20 46 20 35 | 14 21 4 56 18 50 5 12 22 33 5 14 25 19 5 3 26 59 4 39 | 7 13 32 5 13 20 2 13 11 4 13 3 5 12 58 6 12 54 2 12 53 | 3 19 17 46 3 32 17 48 3 45 17 51 3 57 17 53 4 8 17 56 4 19 18 0 4 28 18 3 | 5 9 24 3 5 9 24 2 5 8 24 2 5 7 24 2 5 6 24 1 | 0 34 0 35 0 35 0 36 | 22 17 22 16 22 14 22 12 22 10 22 8 | 0 12 0 12 0 12 0 13 0 13 0 13 | | 1 51 1 51 1 51 1 51 1 52 | 18 18 18 18 18 18 18 18 18 17 18 17 18 17 | 0 14 0 14 0 14 0 14 0 14 | 20 48 1 2 20 49 1 2 20 49 1 2 | 9 12 2 9 12 2 9 12 2 9 12 2 9 12 1 9 12 1 | 3 16 54 2 16 53 1 16 53 0 16 52 9 16 52 8 16 51 8 16 51 | 16 20 16 20 16 20 16 21 16 21 16 22 | 16 4 16 4 16 5 16 6 16 7 16 8 | 24 45 24 46 24 48 24 49 24 50 24 52 24 53 | 10 24 10 24 10 25 10 25 10 25 | 0 39 0 39 0 39 0 39 0 39 0 39 0 39 |
| S 24 M25 T 26 W27 T 28 F 29 S 30 S 31 | 19 46 19 33 | 24 20 2 16 20 56 1 11 16 29 0 1 11 14 1s10 5 23 2 19 0s47 3 21 | 13 9 0 13 18 0 13 29 13 42 | 4 37 18 7 4 43 18 11 4 49 18 15 4 53 18 20 4 55 18 24 4 56 18 28 4 54 18 33 4s51 18n38 | 4 56 23 55 4 54 23 53 4 51 23 51 4 48 23 48 | 0 39 0 40 0 40 0 41 0 41 0 42 | 22 2 | 0 13 0 13 0 13 0 13 0 13 0 14 | 10 20 | 1 52 1 52 1 53 1 53 1 53 1 53 | 18 17 18 17 18 17 18 17 18 17 18 17 18 17 | 0 14 0 14 0 14 0 14 0 14 0 14 | 20 49 1 2 20 49 1 2 20 49 1 2 20 49 1 2 20 50 1 3 20 50 1 3 20 50 1 3 20 50 1 3 | 9 12 1 9 12 1 9 12 1 0 12 1 0 12 1 0 12 1 | 7 16 50 6 16 50 5 16 49 4 16 49 3 16 48 2 16 48 1 16 47 0 16n47 | 16 24 16 24 16 24 16 24 16 24 16 24 | 16 11 16 12 16 13 16 14 16 15 16 16 | 24 56 24 57 24 58 25 0 25 1 25 2 | 10 25 10 25 10 25 10 25 10 25 10 25 10 25 | 0 39 0 39 0 39 0 39 0 39 0 39 0 39 0 n39 |

Julian Day Number = 2352745.5, Delta T = 11.13 sec Ecliptic obliquity = 23°28'34, Nutation = $0^{\circ}00'12$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}57'50$, Lahiri = $20^{\circ}04'51$ Greg. Calendar

AUGUST 1729 00:00 UT

| Aud | 031 I/L | | | | | | | | | | | | | | 00.00 | 0. |
|------|----------|------------------|------------------|---------------|----------------|--------------|-------|----------------|-----------------|----------------|---------------|--------|----------------|---------------|----------------|------|
| Day | Sid.t | 0 | D | ğ | · | ð | 4 | ħ |)∤(| ¥ | Р | ₽. | v | Ç | Ŗ | Day |
| M 1 | 20 38 13 | 8 Ω 34'21 | 21 ≏ 43 | 5°R57 | 25 川 36 | 1195 9 | 22936 | 7°R36 | 22°D48 | 12Ⅲ25 | 8 ₾ 10 | 14≈55 | 15≈14 | 0 Д 11 | 25°R20 | M 1 |
| T 2 | 20 42 10 | 9°31'49 | 5 M .46 | 5 Ω 15 | 26°18 | 11°49 | 22°49 | 7) €33 | 22 M .48 | 12°27 | 8°11 | 14°R55 | 15°10 | 0°18 | 25 Y 20 | T 2 |
| W 3 | 20 46 6 | 10°29'18 | 19°58 | 4°35 | 27° 0 | 12°28 | 23° 2 | 7°29 | 22°48 | 12°28 | 8°13 | 14°55 | 15° 7 | 0°24 | 25°20 | W 3 |
| T 4 | 20 50 3 | 11°26'48 | 4 ₹ 18 | 3°59 | 27°44 | 13° 7 | 23°15 | 7°25 | 22°48 | 12°30 | 8°14 | 14°55 | 15° 4 | 0°31 | 25°20 | T 4 |
| F 5 | 20 53 59 | 12°24'18 | 18°42 | 3°28 | 28°28 | 13°47 | 23°28 | 7°21 | 22°48 | 12°31 | 8°16 | 14°54 | 15° 1 | 0°38 | 25°19 | F 5 |
| S 6 | 20 57 56 | 13°21'50 | 3ਰ 7 | 3° 2 | 29°14 | 14°26 | 23°41 | 7°17 | 22°48 | 12°32 | 8°17 | 14°54 | 14°58 | 0°44 | 25°19 | S 6 |
| S 7 | 21 1 53 | 14°19'22 | 17°28 | 2°41 | 0න 0 | 15° 5 | 23°54 | 7°13 | 22°49 | 12°34 | 8°19 | 14°54 | 14°55 | 0°51 | 25°19 | S 7 |
| M 8 | 21 5 49 | 15°16'56 | 1≈40 | 2°26 | 0°47 | 15°44 | 24° 7 | 7° 9 | 22°49 | 12°35 | 8°20 | 14°D54 | 14°51 | 0°58 | 25°18 | M 8 |
| T 9 | 21 9 46 | 16°14'30 | 15°39 | 2°18 | 1°35 | 16°23 | 24°20 | 7° 5 | 22°49 | 12°36 | 8°22 | 14°R54 | 14°48 | 1° 5 | 25°18 | T 9 |
| W10 | 21 13 42 | 17°12'06 | 29°21 | 2°D17 | 2°24 | 17° 2 | 24°33 | 7° 1 | 22°50 | 12°37 | 8°23 | 14°54 | 14°45 | 1°11 | 25°17 | W10 |
| T 11 | 21 17 39 | 18° 9'43 | 12) (44 | 2°22 | 3°13 | 17°41 | 24°46 | 6°57 | 22°50 | 12°38 | 8°25 | 14°54 | 14°42 | 1°18 | 25°16 | T 11 |
| F 12 | 21 21 35 | 19° 7'21 | 25°47 | 2°35 | 4° 3 | 18°20 | 24°58 | 6°53 | 22°51 | 12°39 | 8°27 | 14°53 | 14°39 | 1°25 | 25°16 | F 12 |
| S 13 | 21 25 32 | 20° 5'00 | 8 Y 31 | 2°55 | 4°54 | 18°59 | 25°11 | 6°49 | 22°52 | 12°41 | 8°28 | 14°53 | 14°36 | 1°31 | 25°15 | S 13 |
| S 14 | 21 29 28 | 21° 2'42 | 20°58 | 3°23 | 5°45 | 19°38 | 25°24 | 6°44 | 22°52 | 12°42 | 8°30 | 14°52 | 14°32 | 1°38 | 25°14 | S 14 |
| M15 | 21 33 25 | 22° 0'25 | 3 8 10 | 3°58 | 6°37 | 20°17 | 25°37 | 6°40 | 22°53 | 12°43 | 8°32 | 14°52 | 14°29 | 1°45 | 25°13 | M15 |
| T 16 | 21 37 22 | 22°58'09 | 15°11 | 4°40 | 7°30 | 20°56 | 25°49 | 6°36 | 22°54 | 12°44 | 8°34 | 14°51 | 14°26 | 1°52 | 25°12 | T 16 |
| W17 | 21 41 18 | 23°55'55 | 27° 5 | 5°30 | 8°24 | 21°35 | 26° 2 | 6°31 | 22°54 | 12°45 | 8°35 | 14°D51 | 14°23 | 1°58 | 25°11 | W17 |
| T 18 | 21 45 15 | 24°53'43 | 8 II 58 | 6°26 | 9°18 | 22°13 | 26°14 | 6°27 | 22°55 | 12°46 | 8°37 | 14°51 | 14°20 | 2° 5 | 25°10 | T 18 |
| F 19 | 21 49 11 | 25°51'33 | 20°54 | 7°29 | 10°12 | 22°52 | 26°27 | 6°22 | 22°56 | 12°47 | 8°39 | 14°52 | 14°16 | 2°12 | 25° 9 | F 19 |
| S 20 | 21 53 8 | 26°49'24 | 2957 | 8°38 | 11° 7 | 23°31 | 26°39 | 6°18 | 22°57 | 12°47 | 8°41 | 14°53 | 14°13 | 2°18 | 25° 8 | S 20 |
| S 21 | 21 57 4 | 27°47'17 | 15°11 | 9°54 | 12° 3 | 24° 9 | 26°52 | 6°13 | 22°58 | 12°48 | 8°43 | 14°54 | 14°10 | 2°25 | 25° 7 | S 21 |
| M22 | 22 1 1 | 28°45'12 | 27°39 | 11°15 | 12°59 | 24°48 | 27° 4 | 6° 9 | 22°59 | 12°49 | 8°45 | 14°55 | 14° 7 | 2°32 | 25° 6 | M22 |
| T 23 | 22 4 57 | 29°43'08 | 10 Ω 24 | 12°41 | 13°55 | 25°26 | 27°16 | 6° 4 | 23° 0 | 12°50 | 8°47 | 14°R56 | 14° 4 | 2°39 | 25° 4 | T 23 |
| W24 | 22 8 54 | 0 m 41'06 | 23°28 | 14°13 | 14°52 | 26° 5 | 27°29 | 6° 0 | 23° 1 | 12°51 | 8°49 | 14°56 | 14° 1 | 2°45 | 25° 3 | W24 |
| T 25 | 22 12 51 | 1°39'06 | 6 m 49 | 15°48 | 15°50 | 26°43 | 27°41 | 5°55 | 23° 3 | 12°51 | 8°51 | 14°55 | 13°57 | 2°52 | 25° 2 | T 25 |
| F 26 | 22 16 47 | 2°37'07 | 20°26 | 17°28 | 16°48 | 27°21 | 27°53 | 5°51 | 23° 4 | 12°52 | 8°53 | 14°53 | 13°54 | 2°59 | 25° 0 | F 26 |
| S 27 | 22 20 44 | 3°35'09 | 4 ≏ 18 | 19°11 | 17°46 | 28° 0 | 28° 5 | 5°46 | 23° 5 | 12°53 | 8°55 | 14°51 | 13°51 | 3° 5 | 24°59 | S 27 |
| S 28 | 22 24 40 | 4°33'13 | 18°22 | 20°58 | 18°45 | 28°38 | 28°17 | 5°42 | 23° 6 | 12°54 | 8°57 | 14°48 | 13°48 | 3°12 | 24°57 | S 28 |
| M29 | 22 28 37 | 5°31'19 | 2M32 | 22°47 | 19°44 | 29°16 | 28°29 | 5°37 | 23° 8 | 12°54 | 8°59 | 14°46 | 13°45 | 3°19 | 24°55 | M29 |
| T 30 | 22 32 33 | 6°29'26 | 16°46 | 24°38 | 20°44 | 29°54 | 28°41 | 5°32 | 23° 9 | 12°55 | 9° 1 | 14°44 | 13°41 | 3°26 | 24°54 | T 30 |
| W31 | 22 36 30 | 7 m 27'35 | 1 × 7 1 | $26\Omega 30$ | 219544 | 0Ω 32 | 28953 | 5 ∺ 28 | 23 M .11 | 12 Ⅱ 55 | 9 ₾ 3 | 14°D43 | 13 ≈ 38 | 3 Ⅲ 32 | 24 Y 52 | W31 |

| Day | 0 | D | ğ | · | ď | 4 | ħ |)Å(| ¥ | Р | n | v t | Š, |
|--------------|----------------|-----------------------|------------------------|---------------|------------|--------------------------|--------------|-------------|--------------------------|----------------------------|----------|--------------------------|------------|
| | decl | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl | decl decl | decl lat |
| M 1 | 18n 9 | 12s58 4s51 | 14n11 4s4 | 6 18n42 4s42 | 23n43 0n43 | 21n48 0n14 | 10s29 1s53 | 18s17 0n14 | 20n50 1s30 | 12n 9 16n46 | 16 s23 1 | 6s18 25n 5 | 10n25 0n39 |
| T 2 | | - | 14 28 4 3 | | | | | | 20 50 1 30 | | | | 10 25 0 39 |
| W 3 | 17 38 | | 14 45 4 3 | | | 21 44 0 14 | | | 20 51 1 30 | | | | 10 20 0 07 |
| T 4 | | | | | | 21 42 0 14 | | | 20 51 1 30 | | | 6 20 25 8 | |
| F 5 | 17 6 | | 15 22 4 1 15 40 3 5 | | | | | | 20 51 1 30 20 51 1 30 | | | 6 21 25 9 6 22 25 11 | |
| S 6 | 10 30 | | | 17 19 4 4 23 | | | 10 37 1 34 | 18 17 0 13 | 20 31 1 30 | | | | |
| S 7 | | | 15 58 3 4 | | | | | | 20 51 1 30 | | | 6 23 25 12 | |
| M 8 | 16 17 | | 16 16 3 2 | | | 21 34 0 14 | | | 20 51 1 30 | | | 6 24 25 13 | |
| T 9 W10 | 16 0 15 42 | | 16 33 3 1 16 50 2 5 | | | 21 31 0 15 21 29 0 15 | | | 20 51 1 30 20 51 1 30 | | | 6 25 25 14 6 26 25 15 | |
| | 15 42 | 4 30 2 28 | | | | 21 29 0 13 | | | | 11 59 16 42 | | | |
| F 12 | 15 23 | 1n30 3 28 | | | | 21 27 0 13 | | | 20 52 1 30 | | | | |
| S 13 | 14 49 | | | | | | | | | 11 57 16 41 | | | |
| S 14 | 14 30 | 12 40 4 50 | 17 41 1 4 | 17 19 30 3 51 | 22 52 0 51 | 21 20 0 15 | 10 50 1 55 | 18 18 0 13 | 20 52 1 30 | 11 56 16 41 | 16 24 1 | 6 30 25 20 | 10 22 0 38 |
| M15 | 14 12 | | 17 50 1 3 | | | 21 18 0 15 | | | | 11 55 16 41 | | | |
| T 16 | 13 53 | | 1 - 7 - 0 | | | 21 16 0 15 | | | | 11 54 16 40 | | | |
| W17 | 13 34 | 24 33 5 9 | 18 1 0 5 | 7 19 36 3 37 | 22 36 0 52 | 21 14 0 15 | 10 55 1 56 | 18 19 0 13 | 20 52 1 30 | 11 53 16 40 | 16 24 1 | 6 33 25 23 | 10 21 0 38 |
| T 18 | 13 15 | 26 35 4 49 | 18 2 0 4 | 0 19 37 3 32 | 22 31 0 53 | 21 11 0 16 | 10 57 1 56 | 18 19 0 13 | 20 52 1 30 | 11 52 16 39 | 16 24 1 | 6 33 25 25 | 10 21 0 38 |
| F 19 | 12 55 | | | | 22 25 0 53 | | 10 59 1 56 | | | 11 51 16 39 | | | |
| S 20 | 12 35 | 26 58 3 32 | 17 58 0 1 | 0 19 39 3 23 | 22 19 0 54 | 21 7 0 16 | 11 1 1 56 | 18 20 0 13 | 20 52 1 30 | 11 50 16 39 | 16 24 1 | 6 35 25 27 | 10 20 0 38 |
| S 21 | 12 16 | 25 13 2 37 | 17 52 0n | 4 19 39 3 18 | 22 13 0 55 | 21 5 0 16 | 11 2 1 56 | 18 20 0 13 | 20 52 1 30 | 11 49 16 38 | 16 23 1 | 6 36 25 28 | 10 19 0 38 |
| M22 | 11 56 | 22 12 1 34 | 17 43 0 1 | 8 19 39 3 13 | | 21 2 0 16 | 11 4 1 56 | 18 20 0 13 | 20 52 1 31 | 11 48 16 38 | 16 23 1 | 6 37 25 29 | 10 19 0 38 |
| T 23 | 11 35 | | | | | | | | | 11 47 16 38 | | | |
| W24 | - | 12 59 0s47 | | | | 20 58 0 16 | | | | 11 46 16 37 | | | |
| T 25 F 26 | 10 54 | | | | | | | | | 11 45 16 37 | | | |
| S 27 | 10 33 10 12 | 0 59 3 3 5s22 3 59 | | | | | | | | 11 44 16 37 11 43 16 37 | | | |
| | | | | | | | | | | | | | |
| S 28 | | | 15 47 1 1 | | | | | | | 11 42 16 36 | - | | |
| M29 | | | 15 18 1 2 | | | | | | | 11 41 16 36 | | | |
| T 30 W31 | - | | 14 46 1 3 | - | | | | | | 11 40 16 36 | | | |
| WSI | 8n4/ | 25 s 19 5 s 2 | 14n13 1n3 | / 19n18 282/ | 21N 3 IN 0 | 20n42 0n17 | 11 s20 1 s57 | 18 s23 0n13 | 20n53 1 s31 | 11n39 16n35 | 1082/ 1 | 0845 25839 | 10n13 0n37 |

SEPTEMBER 1729 00:00 UT

| JLI | LUDEN | 1/LJ | | | | | | | | | | | | | 00.0 | 0 01 |
|------|----------|------------------|-----------------|----------------|--------------|---------------|--------------|----------------|-----------------|----------------|----------------|--------|-------|---------------|----------------|------|
| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)મ(| 并 | В | S. | v | Ç | Ŷ, | Day |
| T 1 | 22 40 26 | 8 m 25'45 | 15 √ 14 | 28 N 24 | 229544 | 1 Q 10 | 2995 4 | 5°R23 | 23 M .12 | 12Ⅲ56 | 9 ॒ 5 | 14≈43 | 13≈35 | 3 П 39 | 24°R50 | T 1 |
| F 2 | 22 44 23 | 9°23'56 | 29°22 | 0 m 19 | 23°45 | 1°48 | 29°16 | 5) (19 | 23°14 | 12°56 | 9° 7 | 14°44 | 13°32 | 3°46 | 24 Y 49 | F 2 |
| S 3 | 22 48 20 | 10°22'09 | 13 る 24 | 2°14 | 24°46 | 2°26 | 29°28 | 5°14 | 23°16 | 12°57 | 9° 9 | 14°45 | 13°29 | 3°52 | 24°47 | S 3 |
| S 4 | 22 52 16 | 11°20'23 | 27°18 | 4°10 | 25°47 | 3° 4 | 29°39 | 5°10 | 23°17 | 12°57 | 9°11 | 14°46 | 13°26 | 3°59 | 24°45 | S 4 |
| M 5 | 22 56 13 | 12°18'39 | 11 ≈ 3 | 6° 5 | 26°49 | 3°42 | 29°51 | 5° 5 | 23°19 | 12°57 | 9°13 | 14°R47 | 13°22 | 4° 6 | 24°43 | M 5 |
| T 6 | 23 0 9 | 13°16'57 | 24°36 | 8° 1 | 27°51 | 4°20 | 0Ω 2 | 5° 1 | 23°21 | 12°58 | 9°15 | 14°47 | 13°19 | 4°13 | 24°41 | T 6 |
| W 7 | 23 4 6 | 14°15'16 | 7) €57 | 9°56 | 28°54 | 4°57 | 0°14 | 4°56 | 23°23 | 12°58 | 9°18 | 14°45 | 13°16 | 4°19 | 24°39 | W 7 |
| T 8 | 23 8 2 | 15°13'37 | 21° 4 | 11°51 | 29°56 | 5°35 | 0°25 | 4°52 | 23°24 | 12°58 | 9°20 | 14°42 | 13°13 | 4°26 | 24°37 | T 8 |
| F 9 | 23 11 59 | 16°11'59 | 3 Y 56 | 13°45 | $0\Omega 59$ | 6°13 | 0°36 | 4°47 | 23°26 | 12°59 | 9°22 | 14°37 | 13°10 | 4°33 | 24°35 | F 9 |
| S 10 | 23 15 55 | 17°10'24 | 16°33 | 15°38 | 2° 3 | 6°50 | 0°47 | 4°43 | 23°28 | 12°59 | 9°24 | 14°32 | 13° 7 | 4°39 | 24°33 | S 10 |
| S 11 | 23 19 52 | 18° 8'51 | 28°55 | 17°30 | 3° 6 | 7°28 | 0°58 | 4°38 | 23°30 | 12°59 | 9°26 | 14°26 | 13° 3 | 4°46 | 24°31 | S 11 |
| M12 | 23 23 48 | 19° 7'20 | 118 5 | 19°22 | 4°10 | 8° 5 | 1° 9 | 4°34 | 23°32 | 12°59 | 9°29 | 14°21 | 13° 0 | 4°53 | 24°28 | M12 |
| T 13 | 23 27 45 | 20° 5'51 | 23° 6 | 21°12 | 5°15 | 8°43 | 1°20 | 4°30 | 23°34 | 12°59 | 9°31 | 14°16 | 12°57 | 5° 0 | 24°26 | T 13 |
| W14 | 23 31 42 | 21° 4'24 | 4 II 59 | 23° 2 | 6°19 | 9°20 | 1°31 | 4°25 | 23°37 | 12°59 | 9°33 | 14°13 | 12°54 | 5° 6 | 24°24 | W14 |
| T 15 | 23 35 38 | 22° 2'59 | 16°51 | 24°51 | 7°24 | 9°57 | 1°41 | 4°21 | 23°39 | 12°59 | 9°35 | 14°D12 | 12°51 | 5°13 | 24°22 | T 15 |
| F 16 | 23 39 35 | 23° 1'37 | 28°46 | 26°39 | 8°29 | 10°35 | 1°52 | 4°17 | 23°41 | 12°R59 | 9°38 | 14°12 | 12°47 | 5°20 | 24°19 | F 16 |
| S 17 | 23 43 31 | 24° 0'17 | 109548 | 28°25 | 9°34 | 11°12 | 2° 2 | 4°13 | 23°43 | 12°59 | 9°40 | 14°13 | 12°44 | 5°26 | 24°17 | S 17 |
| S 18 | 23 47 28 | 24°58'59 | 23° 2 | 0 ჲ 11 | 10°40 | 11°49 | 2°13 | 4° 9 | 23°46 | 12°59 | 9°42 | 14°15 | 12°41 | 5°33 | 24°15 | S 18 |
| M19 | 23 51 24 | 25°57'43 | 5 Ω 34 | 1°56 | 11°45 | 12°26 | 2°23 | 4° 5 | 23°48 | 12°59 | 9°45 | 14°16 | 12°38 | 5°40 | 24°12 | M19 |
| T 20 | 23 55 21 | 26°56'30 | 18°26 | 3°39 | 12°51 | 13° 4 | 2°33 | 4° 1 | 23°50 | 12°59 | 9°47 | 14°R16 | 12°35 | 5°47 | 24°10 | T 20 |
| W21 | 23 59 17 | 27°55'18 | 1 m) 41 | 5°22 | 13°58 | 13°41 | 2°44 | 3°57 | 23°53 | 12°59 | 9°49 | 14°15 | 12°32 | 5°53 | 24° 7 | W21 |
| T 22 | 0 3 14 | 28°54'09 | 15°21 | 7° 4 | 15° 4 | 14°18 | 2°54 | 3°53 | 23°55 | 12°59 | 9°51 | 14°11 | 12°28 | 6° 0 | 24° 5 | T 22 |
| F 23 | 0 711 | 29°53'02 | 29°22 | 8°45 | 16°11 | 14°55 | 3° 4 | 3°49 | 23°58 | 12°59 | 9°54 | 14° 6 | 12°25 | 6° 7 | 24° 2 | F 23 |
| S 24 | 0 11 7 | 0 ≏ 51'57 | 13 ≏ 42 | 10°25 | 17°17 | 15°31 | 3°13 | 3°45 | 24° 0 | 12°58 | 9°56 | 13°59 | 12°22 | 6°13 | 23°59 | S 24 |
| S 25 | 0 15 4 | 1°50'53 | 28°13 | 12° 4 | 18°24 | 16° 8 | 3°23 | 3°41 | 24° 3 | 12°58 | 9°58 | 13°51 | 12°19 | 6°20 | 23°57 | S 25 |
| M26 | 0 19 0 | 2°49'52 | 12 M 51 | 13°42 | 19°32 | 16°45 | 3°33 | 3°37 | 24° 5 | 12°58 | 10° 1 | 13°44 | 12°16 | 6°27 | 23°54 | M26 |
| T 27 | 0 22 57 | 3°48'53 | 27°26 | 15°19 | 20°39 | 17°22 | 3°42 | 3°34 | 24° 8 | 12°57 | 10° 3 | 13°38 | 12°13 | 6°34 | 23°51 | T 27 |
| W28 | 0 26 53 | 4°47'55 | 11 × 755 | 16°56 | 21°47 | 17°58 | 3°52 | 3°30 | 24°11 | 12°57 | 10° 6 | 13°33 | 12° 9 | 6°40 | 23°49 | W28 |
| T 29 | 0 30 50 | 5°46'59 | 2 <u>6</u> °12 | 18°31 | 22°55 | 18°35 | 4° 1 | 3°27 | 24°14 | 12°57 | 10° 8 | 13°31 | 12° 6 | 6°47 | 23°46 | T 29 |
| F 30 | 0 34 46 | 6 ₽ 46'05 | 10중15 | 20 ♀ 6 | 24Ω 3 | $19\Omega12$ | $4\Omega 10$ | 3 ∺ 23 | 24MJ16 | 12 Ⅱ 56 | 10 ₽ 10 | 13°D31 | 12≈ 3 | 6∏54 | 23 Y 43 | F 30 |

| Day | 0 | D | ğ | φ | ð | 4 | ħ |)Å(| 并 | Р | v v | ţ | ķ |
|--|--|--|---|--|---|--|--|--|--|---|--|---|--|
| | decl | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl dec | decl | decl lat |
| T 1 F 2 S 3 | 8n25 8 3 7 41 | 27 12 3 44 | 13n37 1n4 13 0 1 4 12 20 1 4 | 14 19 8 2 17 | 20n55 1n 1 20 47 1 1 20 39 1 2 | | 11 23 1 57 | 18 24 0 13 | | 11n38 16n35 11 37 16 35 11 36 16 35 | 16 26 16 4 | 7 25 41 | 10 12 0 37 |
| S 4 M 5 T 6 W 7 T 8 | 7 19 6 57 6 35 6 12 5 50 | 17 49 0 21 12 30 0n54 6 42 2 3 | 11 40 1 4 10 58 1 4 10 14 1 4 9 30 1 4 8 45 1 4 | 18 18 50 2 2 18 18 43 1 57 17 18 36 1 51 | 20 23 1 3 20 14 1 4 20 6 1 4 | 20 30 0 18 20 28 0 18 20 26 0 18 | 11 29 1 57 11 30 1 57 11 32 1 57 | 18 25 0 13 18 26 0 13 18 26 0 13 | 20 53 1 31 20 53 1 31 20 53 1 31 | | 16 25 16 5 16 26 16 5 16 26 16 5 | 0 25 44 1 25 45 2 25 46 | 10 10 0 37 10 9 0 37 |
| F 9 S 10 | 5 27 5 4 | 5n11 3 56 | 8 0 1 4 | 14 18 19 1 41 | 19 48 1 5 | 20 21 0 18 | 11 35 1 57 | 18 27 0 13 | 20 53 1 31 | 11 30 16 33 11 29 16 33 | 16 28 16 5 | 4 25 47 | |
| S 11 M12 T 13 W14 T 15 F 16 S 17 | 4 42 4 19 3 56 3 33 3 10 2 46 2 23 | 20 5 5 10 23 31 5 7 25 56 4 51 27 10 4 22 27 10 3 42 | 5 40 1 3 4 53 1 3 | 35 17 51 1 26 31 17 41 1 21 26 17 30 1 16 22 17 18 1 11 7 17 6 1 6 | 19 21 1 7 19 12 1 8 19 2 1 8 18 53 1 9 | 20 14 0 19 20 12 0 19 20 10 0 19 20 7 0 19 20 5 0 19 | 11 40 1 57 11 42 1 57 11 43 1 57 11 45 1 57 11 46 1 57 | 18 29 0 13 18 29 0 13 18 30 0 13 18 31 0 13 18 31 0 13 | 20 53 1 31 20 53 1 31 20 53 1 32 20 53 1 32 20 53 1 32 | | 16 33 16 5 16 34 16 5 16 35 16 5 16 36 16 5 16 36 17 | 6 25 50 7 25 51 8 25 52 | 10 4 0 37 10 3 0 36 10 2 0 36 10 1 0 36 10 0 0 36 |
| S 18 M19 T 20 W21 T 22 F 23 S 24 | 2 0 1 36 1 13 0 50 0 26 0 3 0 s21 | 19 40 0 47 14 58 0s23 9 27 1 33 3 20 2 40 | 0 9 1 0s38 0 5 1 24 0 4 | 0 16 28 0 51 54 16 14 0 47 18 16 0 0 42 12 15 45 0 37 15 15 30 0 33 | 18 4 1 11 17 54 1 12 17 43 1 13 17 33 1 13 | 19 59 0 20 19 56 0 20 19 54 0 20 19 52 0 20 | 11 51 1 57 11 52 1 57 11 54 1 57 11 55 1 57 11 57 1 57 | 18 33 0 13 18 33 0 13 18 34 0 13 18 35 0 13 18 35 0 13 | 20 52 1 32 20 52 1 32 | 11 17 16 32 | 16 35 17 16 34 17 16 35 17 16 36 17 16 37 17 | 2 25 56 3 25 57 3 25 57 4 25 58 5 25 59 6 26 0 7 26 1 | 9 57 0 36 9 56 0 36 9 56 0 36 |
| S 25 M26 T 27 W28 T 29 F 30 | 1 8 1 31 1 55 2 18 | | 5 11 0 1 5 55 0 6 39 0 7 22 0s | 5 14 41 0 19 8 14 24 0 15 1 14 6 0 10 6 13 49 0 6 | 17 2 1 15 16 51 1 15 16 40 1 16 16 29 1 16 | 19 44 0 21 19 42 0 21 19 39 0 21 19 37 0 21 | 12 1 1 57 12 2 1 57 12 3 1 57 12 4 1 57 | 18 37 0 12 18 38 0 12 18 39 0 12 18 39 0 12 | 20 52 1 32 20 52 1 32 20 52 1 32 20 52 1 32 | 11 11 16 31 | 16 44 17 16 46 17 1 16 47 17 1 16 47 17 1 | 1 26 4 1 26 5 | 9 51 0 36 9 50 0 36 9 49 0 36 9 48 0 35 9 47 0 35 9n46 0n35 |

 $\label{eq:Julian Day Number = 2352807.5, Delta T = 11.15 sec} \\ Ecliptic obliquity = 23°28'35, Nutation = 0°00'13, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 20°57'59, Lahiri = 20°04'59Greg. Calendar \\ \\$

OCTOBER 1729 00:00 UT

| | - | | 1 | 1 | 1 | | | | | | | 1 | | | | |
|------|---------|-------------------|----------------|----------------|----------------|----------------|---------------|---------------|----------------|-----------------|----------------|----------------|---------------|--------------|----------------|------|
| Day | Sid.t | 0 | D | ğ | · | ♂ | 4 | ħ |)મ(| ¥ | Р | r | v | Ç | ę, | Day |
| S 1 | 0 38 43 | 7 ≏ 45'13 | 24중 4 | 21 ≙ 40 | 25 Ω 11 | 19 Ω 48 | 4 Ω 19 | 3°R20 | 24 M 19 | 12°R56 | 10 ₽ 13 | 13 ≈ 32 | 12 ≈ 0 | 7 I 0 | 23°R41 | S 1 |
| S 2 | 0 42 40 | 8°44'22 | 7≈39 | 23°13 | 26°19 | 20°25 | 4°28 | 3) 17 | 24°22 | 12 II 55 | 10°15 | 13°R32 | 11°57 | 7° 7 | 23 Y 38 | S 2 |
| M 3 | 0 46 36 | 9°43'33 | 21° 0 | 24°46 | 27°28 | 21° 1 | 4°37 | 3°13 | 24°25 | 12°55 | 10°17 | 13°32 | 11°53 | 7°14 | 23°35 | M 3 |
| T 4 | 0 50 33 | 10°42'46 | 4) (10 | 26°17 | 28°36 | 21°37 | 4°46 | 3°10 | 24°28 | 12°54 | 10°20 | 13°30 | 11°50 | 7°21 | 23°32 | T 4 |
| W 5 | 0 54 29 | 11°42'01 | 17° 8 | 27°48 | 29°45 | 22°14 | 4°54 | 3° 7 | 24°31 | 12°53 | 10°22 | 13°26 | 11°47 | 7°27 | 23°29 | W 5 |
| T 6 | 0 58 26 | 12°41'17 | 29°55 | 29°18 | 0 m 54 | 22°50 | 5° 3 | 3° 4 | 24°34 | 12°53 | 10°24 | 13°19 | 11°44 | 7°34 | 23°27 | T 6 |
| F 7 | 1 2 22 | 13°40'36 | 12 Y 31 | 0 M .47 | 2° 4 | 23°26 | 5°11 | 3° 1 | 24°37 | 12°52 | 10°27 | 13° 9 | 11°41 | 7°41 | 23°24 | F 7 |
| S 8 | 1 6 19 | 14°39'57 | 24°56 | 2°16 | 3°13 | 24° 2 | 5°19 | 2°58 | 24°40 | 12°51 | 10°29 | 12°58 | 11°38 | 7°47 | 23°21 | S 8 |
| S 9 | 1 10 15 | 15°39'20 | 7 8 11 | 3°43 | 4°22 | 24°38 | 5°27 | 2°56 | 24°43 | 12°51 | 10°31 | 12°46 | 11°34 | 7°54 | 23°18 | S 9 |
| M10 | 1 14 12 | 16°38'45 | 19°16 | 5°10 | 5°32 | 25°14 | 5°35 | 2°53 | 24°46 | 12°50 | 10°34 | 12°35 | 11°31 | 8° 1 | 23°15 | M10 |
| T 11 | 1 18 9 | 17°38'12 | 1 I I13 | 6°36 | 6°42 | 25°50 | 5°43 | 2°50 | 24°49 | 12°49 | 10°36 | 12°24 | 11°28 | 8° 8 | 23°12 | T 11 |
| W12 | 1 22 5 | 18°37'41 | 13° 5 | 8° 2 | 7°52 | 26°26 | 5°51 | 2°48 | 24°52 | 12°48 | 10°38 | 12°16 | 11°25 | 8°14 | 23° 9 | W12 |
| T 13 | 1 26 2 | 19°37'13 | 24°55 | 9°26 | 9° 2 | 27° 2 | 5°58 | 2°46 | 24°55 | 12°47 | 10°41 | 12°11 | 11°22 | 8°21 | 23° 6 | T 13 |
| F 14 | 1 29 58 | 20°36'47 | 69346 | 10°49 | 10°12 | 27°37 | 6° 6 | 2°43 | 24°59 | 12°47 | 10°43 | 12° 8 | 11°19 | 8°28 | 23° 4 | F 14 |
| S 15 | 1 33 55 | 21°36'24 | 18°45 | 12°12 | 11°23 | 28°13 | 6°13 | 2°41 | 25° 2 | 12°46 | 10°45 | 12°D 7 | 11°15 | 8°34 | 23° 1 | S 15 |
| S 16 | 1 37 51 | 22°36'02 | 0 Ω 57 | 13°34 | 12°33 | 28°49 | 6°20 | 2°39 | 25° 5 | 12°45 | 10°48 | 12° 7 | 11°12 | 8°41 | 22°58 | S 16 |
| M17 | 1 41 48 | 23°35'43 | 13°25 | 14°54 | 13°44 | 29°24 | 6°27 | 2°37 | 25° 8 | 12°44 | 10°50 | 12°R 7 | 11° 9 | 8°48 | 22°55 | M17 |
| T 18 | 1 45 44 | 24°35'26 | 26°17 | 16°14 | 14°55 | 29°59 | 6°34 | 2°35 | 25°12 | 12°43 | 10°52 | 12° 6 | 11° 6 | 8°54 | 22°52 | T 18 |
| W19 | 1 49 41 | 25°35'11 | 9 ₯ 35 | 17°32 | 16° 6 | 0 m 35 | 6°41 | 2°33 | 25°15 | 12°42 | 10°55 | 12° 4 | 11° 3 | 9° 1 | 22°49 | W19 |
| T 20 | 1 53 38 | 26°34'59 | 23°21 | 18°49 | 17°17 | 1°11 | 6°47 | 2°31 | 25°18 | 12°41 | 10°57 | 11°58 | 10°59 | 9°8 | 22°46 | T 20 |
| F 21 | 1 57 34 | 27°34'49 | 7 Ω 35 | 20° 5 | 18°28 | 1°46 | 6°54 | 2°30 | 25°22 | 12°40 | 10°59 | 11°50 | 10°56 | 9°15 | 22°43 | F 21 |
| S 22 | 2 1 31 | 28°34'40 | 22°13 | 21°19 | 19°39 | 2°21 | 7° 0 | 2°28 | 25°25 | 12°39 | 11° 2 | 11°40 | 10°53 | 9°21 | 22°40 | S 22 |
| S 23 | 2 5 27 | 29°34'34 | 7 M 8 | 22°32 | 20°51 | 2°56 | 7° 6 | 2°27 | 25°28 | 12°37 | 11° 4 | 11°28 | 10°50 | 9°28 | 22°37 | S 23 |
| M24 | 2 9 24 | 0MJ34'30 | 22°11 | 23°43 | 22° 2 | 3°31 | 7°12 | 2°25 | 25°32 | 12°36 | 11° 6 | 11°17 | 10°47 | 9°35 | 22°35 | M24 |
| T 25 | 2 13 20 | 1°34'28 | 7 , ₹12 | 24°52 | 23°14 | 4° 6 | 7°18 | 2°24 | 25°35 | 12°35 | 11°8 | 11°8 | 10°44 | 9°41 | 22°32 | T 25 |
| W26 | 2 17 17 | 2°34'27 | 22° 1 | 25°59 | 24°25 | 4°41 | 7°23 | 2°23 | 25°39 | 12°34 | 11°11 | 11° 0 | 10°40 | 9°48 | 22°29 | W26 |
| T 27 | 2 21 13 | 3°34'28 | 6 궁 33 | 27° 4 | 25°37 | 5°16 | 7°29 | 2°22 | 25°42 | 12°33 | 11°13 | 10°56 | 10°37 | 9°55 | 22°26 | T 27 |
| F 28 | 2 25 10 | 4°34'31 | 20°44 | 28° 6 | 26°49 | 5°51 | 7°34 | 2°21 | 25°46 | 12°31 | 11°15 | 10°54 | 10°34 | 10° 2 | 22°23 | F 28 |
| S 29 | 2 29 7 | 5°34'35 | 4≈33 | 29° 5 | 28° 1 | 6°26 | 7°39 | 2°20 | 25°49 | 12°30 | 11°17 | 10°53 | 10°31 | 10° 8 | 22°20 | S 29 |
| S 30 | 2 33 3 | 6°34'41 | 18° 1 | 0 √ 1 | 29°13 | 7° 0 | 7°44 | 2°19 | 25°53 | 12°29 | 11°20 | 10°53 | 10°28 | 10°15 | 22°18 | S 30 |
| M31 | 2 37 0 | 7 M .34'48 | 1) 10 | 0 ∡ 753 | 0 ჲ 26 | 7 m 35 | 7Ω 49 | 2) 18 | 25M56 | 12Ⅲ28 | 11 ≏ 22 | 10≈52 | 10≈24 | 10Ⅲ22 | 22 Y 15 | M31 |

| Day | 0 | D | ğ | 9 | 2 | ♂ [™] | 4 | | ħ | l |); | β (| 卉 | | Р |) | R | ದಿ | Ç | Š | 5 |
|--------------|---------------|------------|----------------------|-----------------------------|--------------------|----------------|--------|------|-----------------|-------|----------------|----------------|----------------|--------------|----------------|-------|--------|---------|----------------|--------------|--------------|
| | decl | decl lat | decl l | at decl | lat d | ecl lat | decl l | at | decl | lat | decl | lat | decl l | at | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 3 s 5 | 23 s 1 1 s | 43 8 s 4 6 | 0s20 13n11 | 0n 3 16 | 7 1n18 | 19n33 | 0n21 | 12s 7 | 1 s57 | 18 s41 | 0n12 | 20n51 | 1 s32 | 11n 8 | 16n31 | 16 s47 | 17 s13 | 26n 7 | 9n45 | 0n35 |
| S 2 | 3 28 | 18 54 0 3 | 32 9 28 | 0 27 12 52 | 0 7 15 | 56 1 18 | 19 31 | 0 22 | 12 8 | 1 57 | 18 42 | 0 12 | 20 51 | 1 32 | 11 7 | 16 31 | 16 47 | 17 14 | 26 7 | 9 44 | 0 35 |
| M 3 | 3 52 | 13 53 On4 | 40 10 8 | 0 34 12 33 | 0 11 15 | 45 1 19 | 19 29 | 0 22 | 12 9 | 1 57 | 18 42 | 0 12 | 20 51 | 1 32 | 11 6 | 16 31 | 16 47 | 17 15 | 26 8 | 9 43 | 0 35 |
| T 4 | 4 15 | | | 0 41 12 13 | 0 15 15 | - | | | 12 10 | | 18 43 | - | 20 51 | 1 32 | - | | | 17 16 | | 9 42 | 0 35 |
| W 5 | 4 38 | - | - | 0 49 11 52 | 0 19 15 | | | | 12 11 | | 18 44 | - | 20 51 | 1 32 | - | | | | 26 10 | 9 41 | 0 35 |
| T 6 | 5 1 | 3n21 3 4 | - | 0 56 11 31 | 0 23 15 | - | | | 12 12 | | 18 44 | - | 20 51 | 1 33 | | | | | 26 10 | 9 40 | 0 35 |
| F 7 S 8 | 5 24 | | - | 1 3 11 10 | | | - | | 12 13 | | 18 45 | - | 20 51 | 1 33 1 33 | - | | | 17 19 | 26 11 26 12 | 9 38 | 0 35 0 35 |
| | 5 47 | 14 8 4 4 | 48 13 22 | 1 9 10 49 | 0 30 14 | 49 1 21 | 19 20 | 0 23 | 12 14 | 1 30 | 18 46 | 0 12 | 20 51 | 1 33 | 11 2 | 10 31 | 10 3/ | 1/ 19 | 20 12 | 9 37 | 0 33 |
| S 9 | | | 1 13 58 | 1 16 10 27 | | | | | 12 15 | | 18 47 | | 20 51 | 1 33 | | 16 32 | | | 26 13 | 9 36 | 0 35 |
| M10 | | - | 1 14 34 | 1 23 10 5 | 0 38 14 | | | | 12 16 | | 18 47 | - | | 1 33 | | 16 32 | | | 26 13 | 9 35 | 0 35 |
| T 11 | 6 56 | | 47 15 9 | 1 30 9 42 | | | | | 12 17 | | 18 48 | | | 1 33 | | 16 32 | | | 26 14 | 9 34 | 0 34 |
| W12 T 13 | 7 41 | | 21 15 43 43 16 17 | 1 36 9 19 1 43 8 56 | | | | | 12 18 12 18 | | 18 49 18 50 | | | | 10 59 10 58 | | | | | 9 33 9 32 | 0 34 |
| F 14 | | | 56 16 49 | 1 49 8 33 | | - | - | | 12 18 | | 18 51 | - | | | 10 58 | | | | | 9 32 | 0 34 |
| S 15 | 8 26 | - | | 1 55 8 9 | | | | - | 12 20 | | 18 51 | - | | | 10 56 | | | | | 9 29 | 0 34 |
| S 16 | 8 48 | 20 56 0 5 | 59 17 51 | 2 1 7 45 | 0 57 13 | 15 1 26 | 19 6 | 0 24 | 12 21 | 1 56 | 18 52 | 0 12 | 20 50 | 1 33 | 10.56 | 16 32 | 17 11 | 17 26 | 26 18 | 9 28 | 0 34 |
| M17 | | | -, -, -, | 2 7 7 20 | | - | | - | 12 21 | | 18 53 | - | 20 49 | | | | | | | 9 27 | 0 34 |
| T 18 | 9 33 | 11 37 1 | 14 18 50 | 2 12 6 56 | 1 3 12 | | | 0 24 | 12 22 | 1 55 | 18 54 | 0 12 | 20 49 | 1 33 | 10 54 | 16 32 | 17 11 | 17 28 | 26 19 | 9 26 | 0 34 |
| W19 | 9 54 | 5 50 2 2 | 20 19 17 | 2 17 6 31 | 1 6 12 | 39 1 28 | 19 2 | 0 24 | 12 22 | 1 55 | 18 55 | 0 12 | 20 49 | 1 33 | 10 53 | 16 33 | 17 12 | 17 29 | 26 20 | 9 25 | 0 34 |
| T 20 | 10 16 | 0s25 3 2 | 20 19 44 | 2 22 6 6 | 1 9 12 | - | | 0 25 | 12 23 | 1 55 | 18 55 | 0 12 | 20 49 | 1 33 | 10 53 | 16 33 | 17 14 | 17 30 | 26 20 | 9 23 | 0 34 |
| F 21 | 10 38 | 6 49 4 | | 2 27 5 40 | | | | | - | | 18 56 | - | | | 10 52 | | | | | 9 22 | 0 34 |
| S 22 | 10 59 | 13 3 4 4 | 44 20 33 | 2 32 5 15 | 1 14 12 | 2 1 29 | 18 57 | 0 25 | 12 24 | 1 55 | 18 57 | 0 12 | 20 49 | 1 33 | 10 51 | 16 33 | 17 19 | 17 32 | 26 22 | 9 21 | 0 33 |
| S 23 | 11 20 | 18 38 5 | 0 20 56 | 2 36 4 49 | 1 17 11 | 50 1 30 | | | 12 24 | 1 55 | 18 58 | 0 12 | 20 48 | 1 33 | 10 50 | 16 33 | 17 22 | 17 33 | 26 22 | 9 20 | 0 33 |
| M24 | 11 41 | | | 2 39 4 23 | - | | | | 12 25 | | 18 59 | - | 20 48 | | | | | | | 9 19 | 0 33 |
| T 25 | | | | 2 43 3 57 | 1 22 11 | - | | | 12 25 | | 19 0 | - | | | 10 49 | | | | | 9 18 | 0 33 |
| W26 | _ | - | | 2 46 3 30 | | | | | 12 25 | | 19 0 | - | | | 10 48 | | | | | 9 16 | 0 33 |
| T 27 F 28 | 12 44 13 4 | | - | 2 48 3 4 2 50 2 37 | 1 26 11 1 28 10 | | | | 12 26 12 26 | 1 54 | 19 1 19 2 | - | | | 10 48 10 47 | | | | | 9 15 9 14 | 0 33 |
| S 29 | _ | | - | 2 50 2 37 2 51 2 10 | | - | | | 12 26 | | 19 2 | - | | | 10 47 | | | | | 9 14 | 0 33 |
| | | | | | | | | | | | | | | | | | | | | | |
| S 30 M31 | - | | | 2 52 1 43 2 s 52 1 n 1 6 | | | | | 12 26 12 s26 | | 19 4 | - | 20 47 20n47 | | 10 46 10n45 | | | | | 9 12 | 0 33 |
| IVIST | 14s 4 | 982/ In | 45 23 s10 | 2s52 1n16 | 11134 101 | 112 In34 | 181146 | Un2/ | 12 S26 | 1 854 | 19s 5 | Un12 | 20n4 / | 1833 | 10n45 | 10035 | 1/832 | 1 / 839 | 20n2 / | 9n11 | 0n33 |

Julian Day Number = 2352837.5, Delta T = 11.17 sec Ecliptic obliquity = 23°28'35, Nutation = $0^{\circ}00'12$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}58'03$, Lahiri = $20^{\circ}05'03$ Greg. Calendar

NOVEMBER 1729 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)∤(| ħ | Р | S. | Ω | Ç | , k | Day |
|------|---------|-------------------|----------------|----------------|----------------|--------|---------------|----------------|-----------------|-----------------|----------------|--------|---------------|----------------|---------------|------|
| T 1 | 2 40 56 | 8ML34'57 | 14) 3 | 1 √ 41 | 1 ≏ 38 | 8Mp 9 | 7 Ω 53 | 2°R18 | 26M 0 | 12°R26 | 11 ≏ 24 | 10°R49 | 10≈21 | 10Ⅱ28 | 22°R12 | T 1 |
| W 2 | 2 44 53 | 9°35'07 | 26°44 | 2°25 | 2°50 | 8°44 | 7°58 | 2) 17 | 26° 4 | 12 II 25 | 11°26 | 10≈43 | 10°18 | 10°35 | 22 Υ 9 | W 2 |
| T 3 | 2 48 49 | 10°35'19 | 9 Υ 13 | 3° 4 | 4° 3 | 9°18 | 8° 2 | 2°17 | 26° 7 | 12°24 | 11°28 | 10°34 | 10°15 | 10°42 | 22° 7 | T 3 |
| F 4 | 2 52 46 | 11°35'32 | 21°34 | 3°37 | 5°15 | 9°52 | 8° 6 | 2°17 | 26°11 | 12°22 | 11°30 | 10°22 | 10°12 | 10°48 | 22° 4 | F 4 |
| S 5 | 2 56 42 | 12°35'48 | 3 8 46 | 4° 4 | 6°28 | 10°26 | 8°10 | 2°17 | 26°14 | 12°21 | 11°32 | 10° 8 | 10° 9 | 10°55 | 22° 1 | S 5 |
| S 6 | 3 0 39 | 13°36'05 | 15°51 | 4°24 | 7°41 | 11° 0 | 8°14 | 2°D17 | 26°18 | 12°19 | 11°34 | 9°54 | 10° 5 | 11° 2 | 21°58 | S 6 |
| M 7 | 3 4 36 | 14°36'24 | 27°49 | 4°36 | 8°53 | 11°34 | 8°17 | 2°17 | 26°22 | 12°18 | 11°36 | 9°39 | 10° 2 | 11° 9 | 21°56 | M 7 |
| T 8 | 3 8 32 | 15°36'44 | 9 Ⅱ 43 | 4°R40 | 10° 6 | 12° 8 | 8°21 | 2°17 | 26°25 | 12°16 | 11°39 | 9°26 | 9°59 | 11°15 | 21°53 | T 8 |
| W 9 | 3 12 29 | 16°37'07 | 21°33 | 4°35 | 11°19 | 12°42 | 8°24 | 2°17 | 26°29 | 12°15 | 11°41 | 9°16 | 9°56 | 11°22 | 21°51 | W 9 |
| T 10 | 3 16 25 | 17°37'31 | 39522 | 4°21 | 12°32 | 13°16 | 8°27 | 2°18 | 26°33 | 12°13 | 11°43 | 9° 8 | 9°53 | 11°29 | 21°48 | T 10 |
| F 11 | 3 20 22 | 18°37'57 | 15°13 | 3°56 | 13°45 | 13°49 | 8°30 | 2°18 | 26°36 | 12°12 | 11°45 | 9° 3 | 9°50 | 11°35 | 21°46 | F 11 |
| S 12 | 3 24 18 | 19°38'25 | 27°11 | 3°21 | 14°59 | 14°23 | 8°32 | 2°19 | 26°40 | 12°10 | 11°47 | 9° 1 | 9°46 | 11°42 | 21°43 | S 12 |
| S 13 | 3 28 15 | 20°38'54 | 9 Ω 19 | 2°36 | 16°12 | 14°56 | 8°35 | 2°19 | 26°44 | 12° 9 | 11°49 | 9°D 1 | 9°43 | 11°49 | 21°41 | S 13 |
| M14 | 3 32 11 | 21°39'26 | 21°43 | 1°41 | 17°25 | 15°30 | 8°37 | 2°20 | 26°47 | 12° 7 | 11°50 | 9°R 1 | 9°40 | 11°55 | 21°38 | M14 |
| T 15 | 3 36 8 | 22°39'59 | 4 Mp 29 | 0°37 | 18°39 | 16° 3 | 8°39 | 2°21 | 26°51 | 12° 6 | 11°52 | 9° 0 | 9°37 | 12° 2 | 21°36 | T 15 |
| W16 | 3 40 5 | 23°40'34 | 17°41 | 29M25 | 19°52 | 16°36 | 8°41 | 2°22 | 26°55 | 12° 4 | 11°54 | 8°58 | 9°34 | 12° 9 | 21°33 | W16 |
| T 17 | 3 44 1 | 24°41'11 | 1 ≏ 22 | 28° 8 | 21° 6 | 17° 9 | 8°43 | 2°23 | 26°59 | 12° 2 | 11°56 | 8°54 | 9°30 | 12°16 | 21°31 | T 17 |
| F 18 | 3 47 58 | 25°41'50 | 15°34 | 26°47 | 22°19 | 17°42 | 8°44 | 2°25 | 27° 2 | 12° 1 | 11°58 | 8°46 | 9°27 | 12°22 | 21°29 | F 18 |
| S 19 | 3 51 54 | 26°42'30 | 0 M .14 | 25°25 | 23°33 | 18°15 | 8°46 | 2°26 | 27° 6 | 11°59 | 12° 0 | 8°37 | 9°24 | 12°29 | 21°27 | S 19 |
| S 20 | 3 55 51 | 27°43'12 | 15°16 | 24° 5 | 24°47 | 18°48 | 8°47 | 2°27 | 27°10 | 11°58 | 12° 2 | 8°26 | 9°21 | 12°36 | 21°24 | S 20 |
| M21 | 3 59 47 | 28°43'55 | 0 ∡ 32 | 22°50 | 26° 1 | 19°20 | 8°48 | 2°29 | 27°13 | 11°56 | 12° 3 | 8°15 | 9°18 | 12°42 | 21°22 | M21 |
| T 22 | 4 3 44 | 29°44'40 | 1 <u>5</u> °50 | 21°42 | 27°14 | 19°53 | 8°48 | 2°31 | 27°17 | 11°54 | 12° 5 | 8° 6 | 9°15 | 12°49 | 21°20 | T 22 |
| W23 | 4 7 40 | 0 ∡ ¹45'26 | 0 궁 59 | 20°42 | 28°28 | 20°25 | 8°49 | 2°32 | 27°21 | 11°53 | 12° 7 | 7°59 | 9°11 | 12°56 | 21°18 | W23 |
| T 24 | 4 11 37 | 1°46'14 | 15°49 | 19°53 | 29°42 | 20°58 | 8°49 | 2°34 | 27°25 | 11°51 | 12° 9 | 7°54 | 9° 8 | 13° 2 | 21°16 | T 24 |
| F 25 | 4 15 34 | 2°47'02 | 0≈16 | 19°15 | 0 M .56 | 21°30 | 8°R49 | 2°36 | 27°28 | 11°49 | 12°10 | 7°52 | 9° 5 | 13° 9 | 21°14 | F 25 |
| S 26 | 4 19 30 | 3°47'51 | 14°15 | 18°48 | 2°10 | 22° 2 | 8°49 | 2°38 | 27°32 | 11°48 | 12°12 | 7°D52 | 9° 2 | 13°16 | 21°12 | S 26 |
| S 27 | 4 23 27 | 4°48'41 | 27°48 | 18°33 | 3°24 | 22°34 | 8°49 | 2°40 | 27°36 | 11°46 | 12°14 | 7°53 | 8°59 | 13°23 | 21°10 | S 27 |
| M28 | 4 27 23 | 5°49'32 | 10 ¥ 58 | 18°D30 | 4°38 | 23° 6 | 8°48 | 2°43 | 27°39 | 11°44 | 12°15 | 7°R53 | 8°56 | 13°29 | 21° 8 | M28 |
| T 29 | 4 31 20 | 6°50'23 | 23°46 | 18°36 | 5°52 | 23°37 | 8°48 | 2°45 | 27°43 | 11°43 | 12°17 | 7°51 | 8°52 | 13°36 | 21° 6 | T 29 |
| W30 | 4 35 16 | 7 ₹ 751'16 | 6 Υ 18 | 18 M 53 | 7 M 7 | 24M) 9 | $8\Omega47$ | 2){ 47 | 27 M .47 | 11 Ⅱ 41 | 12 ≏ 18 | 7≈47 | 8 ≈ 49 | 13 Ⅱ 43 | 21 Y 5 | W30 |

| Day | 0 | J |) | ζ | 5 | ç |) | C | ? | 2 | + | ħ | l. |) | β (| 4 | | Е |) | n | U | Ç | Š | ; |
|------|--------|--------|------|----------|------|-------|------|-------|------|-------|------|-------|-------|--------|----------------|-------|-------|-------|-------|--------|--------|-------|------|------|
| | decl | decl l | at | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 14 s23 | | | 23 s19 | | 0n49 | | 10n 0 | | 18n45 | | | | 19s 5 | | 20n47 | | 10n45 | | | | | 9n10 | |
| W 2 | 14 42 | 2n 1 | | 23 26 | 2 49 | 0 21 | 1 37 | 9 47 | | 18 44 | 0 27 | - | 1 54 | | - | 20 46 | | 10 44 | | | | | 9 9 | 0 32 |
| T 3 | 15 1 | 7 35 | | 23 32 | 2 47 | 0s 6 | 1 39 | 9 35 | 1 36 | | 0 27 | | 1 53 | | | 20 46 | | 10 44 | | | | | 9 7 | 0 32 |
| F 4 | 15 20 | 12 48 | | 23 35 | 2 43 | 0 33 | 1 40 | 9 22 | 1 37 | | 0 27 | - | 1 53 | - | - | 20 46 | | 10 43 | | | | | 9 6 | 0 32 |
| S 5 | 15 39 | 17 27 | 4 57 | 23 35 | 2 38 | 1 1 | 1 42 | 9 10 | 1 37 | 18 42 | 0 28 | 12 26 | 1 53 | 19 9 | 0 12 | 20 46 | 1 33 | 10 42 | 16 36 | 17 44 | 17 44 | 26 30 | 9 5 | 0 32 |
| S 6 | 15 57 | 21 21 | 4 58 | 23 33 | 2 32 | 1 29 | 1 43 | 8 58 | 1 38 | 18 41 | 0 28 | 12 26 | 1 53 | 19 10 | 0 12 | 20 46 | 1 33 | 10 42 | 16 37 | 17 48 | 17 45 | 26 30 | 9 4 | 0 32 |
| M 7 | 16 15 | 24 19 | 4 45 | 23 28 | 2 25 | 1 56 | 1 44 | 8 45 | 1 38 | 18 40 | 0 28 | 12 26 | 1 53 | 19 11 | 0 12 | 20 45 | 1 33 | 10 41 | 16 37 | 17 52 | 17 45 | 26 31 | 9 3 | 0 32 |
| T 8 | 16 32 | 26 13 | 4 19 | 23 21 | 2 17 | 2 24 | 1 45 | 8 33 | 1 39 | 18 40 | 0 28 | 12 26 | 1 53 | 19 11 | 0 12 | 20 45 | 1 34 | 10 41 | 16 37 | 17 55 | 17 46 | 26 31 | 9 2 | 0 32 |
| W 9 | 16 50 | | - | 23 10 | 2 7 | 2 52 | 1 46 | 8 20 | | 18 39 | | 12 26 | | 19 12 | - | 20 45 | | 10 40 | | | | | 9 1 | 0 32 |
| T 10 | | - | | 22 56 | 1 55 | 3 19 | 1 47 | 8 8 | | 18 38 | | 12 25 | | 19 13 | - | 20 45 | | 10 40 | | | | 26 32 | 9 0 | 0 32 |
| F 11 | 17 24 | | | 22 38 | 1 42 | 3 47 | 1 48 | 7 55 | | 18 38 | | 12 25 | | 19 14 | | 20 45 | | 10 40 | | | | 26 33 | 8 59 | 0 32 |
| S 12 | 17 40 | 21 46 | 1 2 | 22 17 | 1 27 | 4 15 | 1 48 | 7 43 | 1 41 | 18 37 | 0 29 | 12 25 | 1 52 | 19 15 | 0 12 | 20 44 | 1 34 | 10 39 | 16 39 | 18 2 | 17 50 | 26 33 | 8 58 | 0 32 |
| S 13 | 17 56 | 17 56 | 0s 2 | 21 52 | 1 10 | 4 42 | 1 49 | 7 30 | 1 42 | 18 37 | 0 29 | 12 24 | 1 52 | 19 16 | 0 12 | 20 44 | 1 34 | 10 39 | 16 39 | 18 2 | 17 51 | 26 34 | 8 57 | 0 31 |
| M14 | 18 12 | 13 14 | 1 7 | 21 23 | 0 53 | 5 10 | 1 50 | 7 18 | 1 43 | 18 36 | 0 29 | 12 24 | 1 52 | 19 17 | 0 12 | 20 44 | 1 34 | 10 38 | 16 39 | 18 2 | 17 51 | 26 34 | 8 56 | 0 31 |
| T 15 | 18 28 | 7 51 | 2 11 | 20 51 | 0 33 | 5 37 | 1 50 | 7 6 | 1 43 | 18 36 | 0 30 | 12 23 | 1 52 | 19 18 | 0 12 | 20 44 | 1 34 | 10 38 | 16 40 | 18 2 | 17 52 | 26 35 | 8 55 | 0 31 |
| W16 | 18 43 | 1 58 | 3 10 | 20 17 | 0 13 | 6 5 | 1 50 | 6 53 | 1 44 | 18 36 | 0 30 | 12 23 | 1 52 | 19 18 | 0 12 | 20 44 | 1 34 | 10 38 | 16 40 | 18 3 | 17 53 | 26 35 | 8 54 | 0 31 |
| T 17 | 18 58 | 4s13 | 4 0 | 19 40 | 0n 7 | 6 32 | 1 51 | 6 41 | 1 44 | 18 35 | 0 30 | 12 22 | 1 52 | 19 19 | 0 12 | 20 43 | 1 34 | 10 37 | 16 41 | 18 4 | 17 54 | 26 35 | 8 53 | 0 31 |
| F 18 | | | 4 38 | | 0 28 | 6 59 | 1 51 | 6 29 | | 18 35 | | 12 22 | | 19 20 | | 20 43 | | 10 37 | - | | | 26 36 | 8 52 | 0 31 |
| S 19 | 19 27 | 16 13 | 4 59 | 18 22 | 0 48 | 7 26 | 1 51 | 6 16 | 1 46 | 18 35 | 0 30 | 12 21 | 1 51 | 19 21 | 0 12 | 20 43 | 1 34 | 10 37 | 16 41 | 18 8 | 17 56 | 26 36 | 8 51 | 0 31 |
| S 20 | 19 41 | 21 13 | 5 0 | 17 44 | 1 7 | 7 53 | 1 51 | 6 4 | 1 46 | 18 35 | 0 31 | 12 21 | 1 51 | 19 22 | 0 12 | 20 43 | 1 34 | 10 36 | 16 42 | 18 11 | 17 57 | 26 37 | 8 50 | 0 31 |
| M21 | 19 54 | 24 51 | 4 40 | 17 8 | 1 25 | 8 20 | 1 51 | 5 52 | 1 47 | 18 35 | 0 31 | 12 20 | 1 51 | 19 23 | 0 12 | 20 42 | 1 34 | 10 36 | 16 42 | 18 14 | 17 57 | 26 37 | 8 49 | 0 31 |
| T 22 | 20 8 | 26 41 | 3 59 | 16 35 | 1 41 | 8 47 | 1 51 | 5 39 | 1 47 | 18 35 | 0 31 | 12 19 | 1 51 | 19 24 | 0 12 | 20 42 | 1 34 | 10 36 | 16 43 | 18 16 | 17 58 | 26 37 | 8 48 | 0 30 |
| W23 | 20 20 | 26 31 | 3 3 | 16 6 | 1 56 | 9 14 | 1 50 | 5 27 | 1 48 | 18 35 | 0 31 | 12 18 | 1 51 | 19 24 | 0 12 | 20 42 | 1 34 | 10 35 | 16 43 | 18 18 | 17 59 | 26 38 | 8 47 | 0 30 |
| T 24 | 20 33 | 24 26 | 1 54 | 15 41 | 2 8 | 9 40 | 1 50 | 5 15 | | 18 35 | 0 31 | | | 19 25 | | 20 42 | 1 34 | | | | | 26 38 | 8 46 | 0 30 |
| F 25 | 20 45 | | | 15 21 | 2 18 | | 1 50 | 5 3 | | 18 35 | 0 32 | | | 19 26 | | 20 42 | 1 34 | | | | | 26 39 | 8 46 | 0 30 |
| S 26 | 20 57 | 16 2 | 0n34 | 15 6 | 2 26 | 10 32 | 1 49 | 4 51 | 1 50 | 18 36 | 0 32 | 12 16 | 1 50 | 19 27 | 0 12 | 20 41 | 1 34 | 10 35 | 16 44 | 18 20 | 18 2 | 26 39 | 8 45 | 0 30 |
| S 27 | 21 8 | 10 37 | 1 44 | 14 57 | 2 32 | 10 58 | 1 49 | 4 39 | 1 50 | 18 36 | 0 32 | 12 15 | 1 50 | 19 28 | 0 12 | 20 41 | 1 34 | 10 34 | 16 45 | 18 20 | 18 2 | 26 39 | 8 44 | 0 30 |
| M28 | 21 19 | 4 54 | 2 47 | 14 52 | 2 36 | 11 23 | 1 48 | 4 27 | 1 51 | 18 36 | 0 32 | 12 14 | 1 50 | 19 29 | 0 12 | 20 41 | 1 34 | 10 34 | 16 45 | 18 20 | 18 3 | 26 40 | 8 43 | 0 30 |
| T 29 | 21 29 | 0n53 | 3 39 | 14 51 | 2 38 | 11 49 | 1 47 | 4 15 | 1 52 | 18 37 | 0 32 | 12 13 | 1 50 | 19 29 | 0 12 | 20 41 | 1 34 | 10 34 | 16 46 | 18 20 | 18 4 | 26 40 | 8 42 | 0 30 |
| W30 | 21 s39 | 6n29 | 4n20 | 14 s 5 5 | 2n39 | 12s14 | 1n47 | 4n 3 | 1n52 | 18n37 | 0n33 | 12s12 | 1 s50 | 19 s30 | 0n12 | 20n40 | 1 s34 | 10n34 | 16n46 | 18 s21 | 18 s 5 | 26n40 | 8n42 | 0n30 |

Julian Day Number = 2352868.5, Delta T = 11.18 sec Ecliptic obliquity = $23^{\circ}28'34$, Nutation = $0^{\circ}00'12$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}58'07$, Lahiri = $20^{\circ}05'08$ Greg. Calendar

DECEMBER 1729 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)ұ(| ¥ | В | n | Ω | Ç | ķ | Day |
|--------------|--------------------|-----------------------------|------------------------|--------------------------|--------------------------|-----------------------|-----------------------|------------------------|-------------------------|-------------------------|-------------------------|-----------------------|-----------------------|----------------|-----------------|--------------|
| T 1 | 4 39 13 | 8 × 752'09 | 18 Y 37 | 19 M _18 | 8M21 | 24 m 40 | 8°R46 | 2) 50 | 27 M 50 | 11°R39 | 12 Ω 20 | 7°R41 | 8≈46 | 13 Ⅱ 49 | 21°R 3 | T 1 |
| F 2 | 4 43 9 | 9°53'03 | 0846 | 19°51 | 9°35 | 25°12 | 8 Q 45 | 2°53 | 27°54 | 11 II 38 | 12°21 | 7≈32 | 8°43 | 13°56 | 21 Υ 1 | F 2 |
| S 3 | 4 47 6 | 10°53'58 | 12°48 | 20°32 | 10°49 | 25°43 | 8°43 | 2°55 | 27°58 | 11°36 | 12°23 | 7°22 | 8°40 | 14° 3 | 20°59 | S 3 |
| S 4 | 4 51 3 | 11°54'54 | 24°45 | 21°19 | 12° 4 | 26°14 | 8°42 | 2°58 | 28° 1 | 11°34 | 12°24 | 7°10 | 8°36 | 14° 9 | 20°58 | S 4 |
| M 5 | 4 54 59 | 12°55'51 | 6 П 38 | 22°11 | 13°18 | 26°45 | 8°40 | 3° 1 | 28° 5 | 11°32 | 12°26 | 6°59 | 8°33 | 14°16 | 20°56 | M 5 |
| T 6 | 4 58 56 | 13°56'49 | 18°29 | 23° 9 | 14°33 | 27°16 | 8°38 | 3° 4 | 28° 9 | 11°31 | 12°27 | 6°49 | 8°30 | 14°23 | 20°55 | T 6 |
| W 7 | 5 2 52 | 14°57'48 | 0ණ20 | 24°11 | 15°47 | 27°47 | 8°35 | 3° 7 | 28°12 | 11°29 | 12°28 | 6°41 | 8°27 | 14°30 | 20°53 | W 7 |
| T 8 | 5 6 49 | 15°58'48 | 12°12 | 25°16 | 17° 1 | 28°17 | 8°33 | 3°10 | 28°16 | 11°27 | 12°30 | 6°35 | 8°24 | 14°36 | 20°52 | T 8 |
| F 9 | 5 10 45 | 16°59'48 | 24° 7 | 26°25 | 18°16 | 28°47 | 8°30 | 3°14 | 28°19 | 11°26 | 12°31 | 6°32 | 8°21 | 14°43 | 20°51 | F 9 |
| S 10 | 5 14 42 | 18° 0'50 | 6 N 8 | 27°37 | 19°30 | 29°18 | 8°28 | 3°17 | 28°23 | 11°24 | 12°32 | 6°D31 | 8°17 | 14°50 | 20°49 | S 10 |
| S 11 | 5 18 38 | 19° 1'52 | 18°20 | 28°51 | 20°45 | 29°48 | 8°25 | 3°21 | 28°26 | 11°22 | 12°34 | 6°32 | 8°14 | 14°56 | 20°48 | S 11 |
| M12 | 5 22 35 | 20° 2'56 | 0 m 45 | 0 ∡ 7 7 | 22° 0 | 0 ჲ 18 | 8°21 | 3°24 | 28°30 | 11°21 | 12°35 | 6°33 | 8°11 | 15° 3 | 20°47 | M12 |
| T 13 | 5 26 32 | 21° 4'00 | 13°28 | 1°25 | 23°14 | 0°47 | 8°18 | 3°28 | 28°33 | 11°19 | 12°36 | 6°34 | 8° 8 | 15°10 | 20°46 | T 13 |
| W14 | 5 30 28 | 22° 5'05 | 26°33 | 2°45 | 24°29 | 1°17 | 8°14 | 3°32 | 28°37 | 11°17 | 12°37 | 6°R35 | 8° 5 | 15°16 | 20°45 | W14 |
| T 15 | 5 34 25 | 23° 6'11 | 10 ♀ 5 | 4° 6 | 25°44 | 1°47 | 8°11 | 3°36 | 28°40 | 11°16 | 12°38 | 6°33 | 8° 2 | 15°23 | 20°44 | T 15 |
| F 16 | 5 38 21 | 24° 7'18 | 24° 4 | 5°29 | 26°58 | 2°16 | 8° 7 | 3°40 | 28°44 | 11°14 | 12°39 | 6°30 | 7°58 | 15°30 | 20°43 | F 16 |
| S 17 | 5 42 18 | 25° 8'26 | 8 M .31 | 6°53 | 28°13 | 2°45 | 8° 3 | 3°44 | 28°47 | 11°12 | 12°40 | 6°25 | 7°55 | 15°37 | 20°42 | S 17 |
| S 18 | 5 46 14 | 26° 9'34 | 23°22 | 8°17 | 29°28 | 3°14 | 7°58 | 3°48 | 28°51 | 11°11 | 12°41 | 6°19 | 7°52 | 15°43 | 20°41 | S 18 |
| M19 | 5 50 11 | 27°10'44 | 8 ₹ 31 | 9°43 | 0 ∡ 743 | 3°43 | 7°54 | 3°52 | 28°54 | 11° 9 | 12°42 | 6°12 | 7°49 | 15°50 | 20°41 | M19 |
| T 20 | 5 54 8 | 28°11'53 | 23°47 | 11° 9 | 1°57 | 4°11 | 7°49 | 3°56 | 28°57 | 11° 7 | 12°43 | 6° 7 | 7°46 | 15°57 | 20°40 | T 20 |
| W21 | 5 58 4 | 29°13'04 | 9 궁 1 | 12°36 | 3°12 | 4°40 | 7°44 | 4° 1 | 29° 1 | 11° 6 | 12°44 | 6° 3 | 7°42 | 16° 3 | 20°39 | W21 |
| T 22 | 6 2 1 | 0 궁 14'14 | 24° 1 | 14° 3 | 4°27 | 5° 8 | 7°39 | 4° 5 | 29° 4 | 11° 4 | 12°45 | 6° 0 | 7°39 | 16°10 | 20°39 | T 22 |
| F 23 | 6 5 57 | 1°15'25 | 8 ≈ 41 | 15°31 17° 0 | 5°42 6°57 | 5°36 | 7°34 7°29 | 4°10 4°14 | 29° 7 29°11 | 11° 3 11° 1 | 12°46 | 6°D 0 6° 1 | 7°36 | 16°17 | 20°38 | F 23 S 24 |
| S 24 | 6 9 54 | 2°16'36 | 22°54 | | | 6° 4 | | | | | 12°47 | - | 7°33 | 16°23 | 20°38 | |
| S 25 | 6 13 50 | 3°17'46 | 6 ∺ 39 | 18°29 | 8°12 | 6°31 | 7°23 | 4°19 | 29°14 | 11° 0 | 12°47 | 6° 2 | 7°30 | 16°30 | 20°37 | S 25 |
| M26 | 6 17 47 | 4°18'57 | 19°57 | 19°59 | 9°27 | 6°59 | 7°18 | 4°24 | 29°17 | 10°58 | 12°48 | 6° 4 | 7°27 | 16°37 | 20°37 | M26 |
| T 27 | 6 21 43 | 5°20'07 | 2 Υ 50 | 21°29 | 10°41 | 7°26 | 7°12 | 4°28 | 29°20 | 10°56 | 12°49 | 6°R 5 | 7°23 | 16°43 | 20°37 | T 27 |
| W28 | 6 25 40 | 6°21'17 | 15°23 | 22°59 | 11°56 | 7°53 | 7° 6 | 4°33 | 29°24 | 10°55 | 12°49 | 6° 4 | 7°20 | 16°50 | 20°36 | W28 |
| T 29 | 6 29 37 | 7°22'27 8°23'37 | 27°40 9 8 45 | 24°30 26° 1 | 13°11 14°26 | 8°19 8°46 | 7° 0 | 4°38 4°43 | 29°27 29°30 | 10°53 10°52 | 12°50 12°51 | 6° 2 | 7°17 7°14 | 16°57 17° 4 | 20°36 20°36 | T 29 F 30 |
| F 30 S 31 | 6 33 33 6 37 30 | 8~23·37 9 ~ 24'46 | 21841 | 26° 1 27 × 732 | 14°26 15 ⁄7 41 | 8°46 9 Ω 12 | 6°54 6 Ω 48 | 4°43 4)(49 | 29°30 29 M 33 | 10°52 10 Ⅲ 51 | 12°51 12 ≏ 51 | 5°59 5 ≈ 55 | 7°14 7 ≈ 11 | 17 1 10 | 20°36 20°D36 | S 31 |
| 551 | 0 3 / 30 | 702440 | 21041 | 217 32 | 127 41 | 7-12 | 00640 | 7/(42 | 4711633 | 101131 | 12-51 | J~~JJ | /~~II | 1/410 | 20 D30 | 5 51 |

| Day | 0 | D | ğ | · | ď | 4 | ħ |)Å(| 并 | Р | ก | ດ Ç | ķ |
|------------|-------------------------|------------|------------------------|---|---------------------------------|--|------------|------------|--|---|---------|----------------------------|-------------------------------------|
| | decl | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl lat | decl | decl decl | decl lat |
| F 2 | 21 s49 21 58 | 16 28 5 2 | 15 13 2 3 | | 3n51 1n53 3 39 1 54 | 18 38 0 33 | 12 10 1 50 | 19 32 0 12 | 20 40 1 34 | | 18 25 1 | 8 7 26 41 | 8n41 0n30 8 40 0 29 |
| S 3 S 4 | 22 7 22 15 | | 15 27 2 3 15 43 2 3 | 3 13 27 1 44 0 13 51 1 43 | | 18 39 0 33 18 39 0 34 | | | | 10 34 16 48 10 33 16 48 | | | 8 39 0 29 8 39 0 29 |
| M 5 T 6 | 22 23 | 25 48 4 25 | 16 0 2 2 | 5 14 15 1 41 | 3 4 1 55 | | 12 6 1 49 | 19 34 0 12 | 20 39 1 34 | 10 33 16 49 10 33 16 49 | 18 33 1 | 8 9 26 42 | 8 38 0 29 8 37 0 29 |
| W 7 | - | 26 30 3 2 | 16 40 2 1 | 4 15 1 1 39 | 2 40 1 57 | 18 41 0 34 | 12 4 1 49 | 19 36 0 12 | 20 39 1 34 | 10 33 16 49 10 33 16 50 10 33 16 50 | 18 38 1 | 8 11 26 43 | 8 37 0 29 8 36 0 29 |
| F 9 | 22 44 22 50 22 56 | 22 25 1 6 | 17 25 2 | 8 15 23 1 38 2 15 45 1 36 5 16 7 1 35 | 2 17 1 58 | 18 42 0 34 18 43 0 35 18 44 0 35 | 12 1 1 49 | 19 38 0 12 | 20 38 1 34 | 10 33 16 50 10 33 16 51 10 33 16 51 | 18 40 1 | 18 12 26 43 | 8 36 0 29 8 36 0 29 8 35 0 29 |
| | 23 1 23 6 | | 18 11 1 4 18 34 1 4 | 8 16 28 1 33 0 16 49 1 31 | 1 54 1 59 1 43 2 0 | | | | | 10 33 16 52 10 33 16 52 | | | 8 34 0 28 8 34 0 28 |
| T 13 | 23 10 23 14 | 3 38 3 6 | 18 58 1 3 | 3 17 10 1 30 | 1 32 2 1 1 21 2 1 | | 11 56 1 48 | 19 41 0 12 | 20 38 1 34 20 37 1 34 | 10 33 16 53 | 18 40 1 | 18 16 26 44 | 8 33 0 28 8 33 0 28 |
| F 16 | 23 18 23 21 | 14 2 5 3 | 19 44 1 1 20 6 1 1 | 0 18 9 1 24 | 1 9 2 2 0 58 2 3 | 18 51 0 36 | 11 51 1 48 | 19 43 0 12 | | 10 34 16 54 | 18 41 1 | 18 18 26 45 | 8 32 0 28 8 32 0 28 |
| S 18 | 23 25 | | 20 50 0 5 | 2 18 27 1 22 4 18 45 1 21 | 0 37 2 4 | 18 53 0 36 | 11 48 1 48 | 19 45 0 12 | | 10 34 16 55 | 18 43 1 | 18 20 26 45 | 8 32 0 28 8 31 0 28 |
| T 20 | | 26 49 3 29 | | 9 19 20 1 16 | | 18 56 0 37 | 11 45 1 47 | 19 46 0 12 | 20 36 1 33 | 10 34 16 56 10 34 16 57 | 18 46 1 | 18 21 <mark>26 46</mark> | 8 31 0 28 8 30 0 28 |
| T 22 | | 22 24 1 5 | | | 0 4 2 6 0s 6 2 7 0 17 2 7 | 18 59 0 37 | 11 41 1 47 | 19 48 0 12 | 20 36 1 33 20 36 1 33 20 36 1 33 | | 18 48 1 | 18 23 <mark>26 46</mark> | 8 30 0 27 8 30 0 27 8 29 0 27 |
| S 24 | 23 27 | 12 28 1 31 | 22 42 0 | 8 20 23 1 8 | 0 27 2 8 | 19 2 0 38 | 11 38 1 47 | 19 49 0 12 | 20 35 1 33 | 10 35 16 59 | 18 48 1 | 18 25 26 46 | 8 29 0 27 |
| M26 | 23 26 23 24 | 0 39 3 37 | 23 12 0s | 1 20 38 1 6 6 20 51 1 3 | 0 37 2 9 0 48 2 9 | 19 5 0 38 | 11 34 1 47 | 19 50 0 12 | 20 35 1 33 | | 18 47 1 | 18 26 <mark>26 46</mark> | 8 29 0 27 8 29 0 27 |
| W28 | 23 22 23 19 | 10 34 4 53 | 23 38 0 2 | 3 21 5 1 1 0 21 17 0 59 | 0 58 2 10 1 8 2 11 | 19 9 0 38 | 11 30 1 46 | 19 52 0 12 | 20 35 1 33 20 35 1 33 | 10 36 17 1 | 18 47 1 | 18 27 26 47 18 28 26 47 | 8 28 0 27 8 28 0 27 |
| F 30 | | 19 41 5 13 | 23 59 0 3 | 7 21 29 0 56 4 21 40 0 54 0 21 s51 0n51 | 1 27 2 12 | 19 12 0 39 | 11 27 1 46 | 19 53 0 12 | 20 34 1 33 | | 18 48 1 | 18 29 26 47 18 30 26 47 | 8 28 0 27 8 28 0 26 8n28 0n26 |

Julian Day Number = 2352898.5, Delta T = 11.19 sec Ecliptic obliquity = $23^{\circ}28'33$, Nutation = $0^{\circ}00'12$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $20^{\circ}58'11$, Lahiri = $20^{\circ}05'12$ Greg. Calendar