

Astrodienst Ephemeris Tables for the year 1859

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 D5EPH

JANUARY 1859 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ♂ | 4 | ħ |)f(| ¥ | Р | v | v | Ç | ę, | Day |
|------|---------|------------------|-----------------|-----------------|----------------|----------------|-----------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|-------|------|
| S 1 | 6 40 28 | 10 る 5'59 | 4 ₹ 55 | 6°R27 | 14°R28 | 6 ¥ 45 | 13°R35 | 11°R 2 | 0°R 1 | 22 米 21 | 5°R40 | 0°R42 | 2 ∺ 9 | 16 궁 14 | 14≈53 | S 1 |
| S 2 | 6 44 25 | 11° 7'10 | 16°55 | 5ਰ 9 | 14 × 23 | 7°31 | 13 Ⅱ 29 | 10 Ω 58 | 29859 | 22°22 | 5 8 40 | 0) €32 | 2° 5 | 16°20 | 14°57 | S 2 |
| M 3 | 6 48 21 | 12° 8'22 | 28°51 | 3°58 | 14°20 | 8°16 | 13°23 | 10°54 | 29°57 | 22°23 | 5°40 | 0°22 | 2° 2 | 16°27 | 15° 1 | M 3 |
| T 4 | 6 52 18 | 13° 9'33 | 10 云 43 | 2°54 | 14°D20 | 9° 2 | 13°16 | 10°50 | 29°55 | 22°24 | 5°39 | 0°13 | 1°59 | 16°34 | 15° 5 | T 4 |
| W 5 | 6 56 14 | 14°10'44 | 22°32 | 1°59 | 14°22 | 9°47 | 13°10 | 10°46 | 29°54 | 22°25 | 5°39 | 0° 5 | 1°56 | 16°40 | 15° 9 | W 5 |
| T 6 | 7 0 11 | 15°11'55 | 4≈21 | 1°13 | 14°27 | 10°32 | 13° 4 | 10°42 | 29°52 | 22°26 | 5°39 | 29≈59 | 1°53 | 16°47 | 15°13 | T 6 |
| F 7 | 7 4 7 | 16°13'05 | 16°12 | 0°38 | 14°34 | 11°18 | 12°59 | 10°38 | 29°51 | 22°28 | 5°38 | 29°56 | 1°50 | 16°54 | 15°17 | F 7 |
| S 8 | 7 8 4 | 17°14'15 | 28° 7 | 0°12 | 14°44 | 12° 3 | 12°53 | 10°33 | 29°49 | 22°29 | 5°38 | 29°D55 | 1°46 | 17° 0 | 15°21 | S 8 |
| S 9 | 7 12 1 | 18°15'25 | 10) € 8 | 29 × 757 | 14°55 | 12°49 | 12°48 | 10°29 | 29°48 | 22°30 | 5°38 | 29°55 | 1°43 | 17° 7 | 15°25 | S 9 |
| M10 | 7 15 57 | 19°16'34 | 22°21 | 29°D50 | 15° 9 | 13°34 | 12°43 | 10°25 | 29°46 | 22°31 | 5°38 | 29°57 | 1°40 | 17°14 | 15°29 | M10 |
| T 11 | 7 19 54 | 20°17'43 | 4 Ƴ 49 | 29°52 | 15°25 | 14°20 | 12°37 | 10°20 | 29°45 | 22°32 | 5°37 | 29°59 | 1°37 | 17°20 | 15°33 | T 11 |
| W12 | 7 23 50 | 21°18'51 | 17°37 | 0중 3 | 15°42 | 15° 5 | 12°33 | 10°16 | 29°44 | 22°34 | 5°37 | 29°R59 | 1°34 | 17°27 | 15°38 | W12 |
| T 13 | 7 27 47 | 22°19'58 | 0 8 48 | 0°21 | 16° 2 | 15°50 | 12°28 | 10°11 | 29°43 | 22°35 | 5°37 | 29°59 | 1°30 | 17°34 | 15°42 | T 13 |
| F 14 | 7 31 43 | 23°21'05 | 14°27 | 0°46 | 16°24 | 16°36 | 12°23 | 10° 7 | 29°41 | 22°36 | 5°37 | 29°57 | 1°27 | 17°40 | 15°46 | F 14 |
| S 15 | 7 35 40 | 24°22'10 | 28°33 | 1°17 | 16°47 | 17°21 | 12°19 | 10° 2 | 29°40 | 22°38 | 5°37 | 29°54 | 1°24 | 17°47 | 15°50 | S 15 |
| S 16 | 7 39 36 | 25°23'16 | 13耳 7 | 1°54 | 17°13 | 18° 6 | 12°15 | 9°57 | 29°39 | 22°39 | 5°37 | 29°49 | 1°21 | 17°54 | 15°55 | S 16 |
| M17 | 7 43 33 | 26°24'20 | 28° 4 | 2°35 | 17°40 | 18°51 | 12°11 | 9°53 | 29°38 | 22°41 | 5°37 | 29°44 | 1°18 | 18° 0 | 15°59 | M17 |
| T 18 | 7 47 30 | 27°25'24 | 139516 | 3°22 | 18° 9 | 19°37 | 12° 7 | 9°48 | 29°37 | 22°42 | 5°37 | 29°39 | 1°15 | 18° 7 | 16° 3 | T 18 |
| W19 | 7 51 26 | 28°26'27 | 28°33 | 4°12 | 18°39 | 20°22 | 12° 4 | 9°43 | 29°36 | 22°44 | 5°37 | 29°35 | 1°11 | 18°14 | 16° 8 | W19 |
| T 20 | 7 55 23 | 29°27'29 | 13 Ω 45 | 5° 6 | 19°11 | 21° 7 | 12° 0 | 9°38 | 29°35 | 22°45 | 5°D37 | 29°33 | 1° 8 | 18°21 | 16°12 | T 20 |
| F 21 | 7 59 19 | 0≈28'31 | 28°42 | 6° 4 | 19°44 | 21°52 | 11°57 | 9°34 | 29°34 | 22°47 | 5°37 | 29°D32 | 1° 5 | 18°27 | 16°16 | F 21 |
| S 22 | 8 3 16 | 1°29'31 | 13 Mp 16 | 7° 5 | 20°19 | 22°37 | 11°54 | 9°29 | 29°33 | 22°48 | 5°37 | 29°32 | 1° 2 | 18°34 | 16°21 | S 22 |
| S 23 | 8 7 12 | 2°30'32 | 27°24 | 8° 8 | 20°55 | 23°22 | 11°51 | 9°24 | 29°32 | 22°50 | 5°37 | 29°34 | 0°59 | 18°41 | 16°25 | S 23 |
| M24 | 8 11 9 | 3°31'31 | 11 ♀ 4 | 9°14 | 21°33 | 24° 8 | 11°48 | 9°19 | 29°32 | 22°51 | 5°37 | 29°36 | 0°56 | 18°47 | 16°30 | M24 |
| T 25 | 8 15 5 | 4°32'31 | 24°18 | 10°22 | 22°11 | 24°53 | 11°46 | 9°14 | 29°31 | 22°53 | 5°37 | 29°37 | 0°52 | 18°54 | 16°34 | T 25 |
| W26 | 8 19 2 | 5°33'29 | 7 M 8 | 11°32 | 22°51 | 25°38 | 11°44 | 9° 9 | 29°30 | 22°55 | 5°37 | 29°R37 | 0°49 | 19° 1 | 16°38 | W26 |
| T 27 | 8 22 59 | 6°34'27 | 19°38 | 12°44 | 23°33 | 26°23 | 11°42 | 9° 4 | 29°30 | 22°56 | 5°37 | 29°36 | 0°46 | 19° 7 | 16°43 | T 27 |
| F 28 | 8 26 55 | 7°35'25 | 1 ₹ 52 | 13°58 | 24°15 | 27° 8 | 11°40 | 8°59 | 29°29 | 22°58 | 5°37 | 29°35 | 0°43 | 19°14 | 16°47 | F 28 |
| S 29 | 8 30 52 | 8°36'22 | 13°55 | 15°13 | 24°58 | 27°53 | 11°38 | 8°55 | 29°29 | 23° 0 | 5°38 | 29°32 | 0°40 | 19°21 | 16°52 | S 29 |
| S 30 | 8 34 48 | 9°37'18 | 25°50 | 16°30 | 25°43 | 28°37 | 11°37 | 8°50 | 29°28 | 23° 2 | 5°38 | 29°29 | 0°36 | 19°27 | 16°56 | S 30 |
| M31 | 8 38 45 | 10≈38'13 | 7 云 40 | 17 る 49 | 26 × 28 | 29 米 22 | 11 II 36 | 8 Ω 45 | 29 8 28 | 23 米 3 | 5 8 38 | 29≈25 | 0 ∺ 33 | 19 る 34 | 17≈ 1 | M31 |

Delta T = 9.20 sec

FEBRUARY 1859 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ [™] | 4 | ħ |)Å(| 卉 | Р | ß | v | Ç | ę, | Day |
|------|----------|------------------|-----------------|---------------|----------------|----------------|----------------|---------------|----------------|---------------|---------------|--------|----------------|----------------|---------------|------|
| T 1 | 8 42 41 | 11≈39'07 | 19る29 | 19る8 | 27 × 14 | 0 ℃ 7 | 11°R35 | 8°R40 | 29°R28 | 23 米 5 | 5 8 38 | 29°R22 | 0) €30 | 19 궁 41 | 17≈ 5 | T 1 |
| W 2 | 8 46 38 | 12°40'00 | 1≈19 | 20°29 | 28° 2 | 0°52 | 11 Ⅲ 34 | 8 Ω 35 | 29 8 27 | 23° 7 | 5°39 | 29≈20 | 0°27 | 19°47 | 17°10 | W 2 |
| T 3 | 8 50 35 | 13°40'52 | 13°12 | 21°51 | 28°50 | 1°37 | 11°33 | 8°30 | 29°27 | 23° 9 | 5°39 | 29°18 | 0°24 | 19°54 | 17°14 | T 3 |
| F 4 | 8 54 31 | 14°41'43 | 25° 9 | 23°14 | 29°39 | 2°22 | 11°33 | 8°25 | 29°27 | 23°11 | 5°39 | 29°D17 | 0°21 | 20° 1 | 17°19 | F 4 |
| S 5 | 8 58 28 | 15°42'33 | 7) (14 | 24°39 | 0중28 | 3° 6 | 11°D33 | 8°20 | 29°27 | 23°13 | 5°40 | 29°18 | 0°17 | 20° 7 | 17°23 | S 5 |
| S 6 | 9 2 24 | 16°43'21 | 19°27 | 26° 4 | 1°19 | 3°51 | 11°33 | 8°15 | 29°27 | 23°14 | 5°40 | 29°18 | 0°14 | 20°14 | 17°28 | S 6 |
| M 7 | 9 6 21 | 17°44'08 | 1 Y 50 | 27°30 | 2°10 | 4°36 | 11°33 | 8°11 | 29°D27 | 23°16 | 5°40 | 29°19 | 0°11 | 20°21 | 17°32 | M 7 |
| T 8 | 9 10 17 | 18°44'53 | 14°28 | 28°57 | 3° 2 | 5°20 | 11°33 | 8° 6 | 29°27 | 23°18 | 5°41 | 29°20 | 0° 8 | 20°27 | 17°37 | T 8 |
| W 9 | 9 14 14 | 19°45'37 | 27°21 | 0≈25 | 3°55 | 6° 5 | 11°34 | 8° 1 | 29°27 | 23°20 | 5°41 | 29°21 | 0° 5 | 20°34 | 17°41 | W 9 |
| T 10 | 9 18 10 | 20°46'19 | 10832 | 1°55 | 4°48 | 6°50 | 11°35 | 7°56 | 29°27 | 23°22 | 5°42 | 29°22 | 0° 2 | 20°41 | 17°46 | T 10 |
| F 11 | 9 22 7 | 21°46'59 | 24° 4 | 3°25 | 5°42 | 7°34 | 11°36 | 7°52 | 29°27 | 23°24 | 5°42 | 29°R22 | 29≈58 | 20°47 | 17°50 | F 11 |
| S 12 | 9 26 4 | 22°47'38 | 7 Ⅱ 58 | 4°55 | 6°36 | 8°19 | 11°37 | 7°47 | 29°28 | 23°26 | 5°43 | 29°22 | 29°55 | 20°54 | 17°55 | S 12 |
| S 13 | 9 30 0 | 23°48'16 | 22°14 | 6°27 | 7°32 | 9° 3 | 11°38 | 7°42 | 29°28 | 23°28 | 5°43 | 29°21 | 29°52 | 21° 1 | 17°59 | S 13 |
| M14 | 9 33 57 | 24°48'51 | 69349 | 8° 0 | 8°27 | 9°48 | 11°40 | 7°38 | 29°28 | 23°30 | 5°44 | 29°21 | 29°49 | 21° 7 | 18° 4 | M14 |
| T 15 | 9 37 53 | 25°49'25 | 21°39 | 9°33 | 9°23 | 10°32 | 11°42 | 7°33 | 29°29 | 23°32 | 5°44 | 29°20 | 29°46 | 21°14 | 18° 8 | T 15 |
| W16 | 9 41 50 | 26°49'57 | 6 Ω 39 | 11° 8 | 10°20 | 11°16 | 11°44 | 7°29 | 29°29 | 23°34 | 5°45 | 29°20 | 29°42 | 21°21 | 18°13 | W16 |
| T 17 | 9 45 46 | 27°50'27 | 21°38 | 12°43 | 11°17 | 12° 1 | 11°46 | 7°24 | 29°30 | 23°37 | 5°45 | 29°20 | 29°39 | 21°28 | 18°17 | T 17 |
| F 18 | 9 49 43 | 28°50'56 | 6 m /30 | 14°20 | 12°15 | 12°45 | 11°48 | 7°20 | 29°30 | 23°39 | 5°46 | 29°20 | 29°36 | 21°34 | 18°22 | F 18 |
| S 19 | 9 53 39 | 29°51'23 | 21° 6 | 15°57 | 13°13 | 13°29 | 11°51 | 7°15 | 29°31 | 23°41 | 5°47 | 29°20 | 29°33 | 21°41 | 18°26 | S 19 |
| S 20 | 9 57 36 | 0 米 51'48 | 5 ≙ 20 | 17°35 | 14°12 | 14°13 | 11°54 | 7°11 | 29°32 | 23°43 | 5°47 | 29°20 | 29°30 | 21°48 | 18°30 | S 20 |
| M21 | 10 1 33 | 1°52'13 | 19°10 | 19°14 | 15°11 | 14°58 | 11°57 | 7° 7 | 29°33 | 23°45 | 5°48 | 29°20 | 29°27 | 21°54 | 18°35 | M21 |
| T 22 | 10 5 29 | 2°52'35 | 2 M .33 | 20°54 | 16°11 | 15°42 | 12° 0 | 7° 3 | 29°33 | 23°47 | 5°49 | 29°19 | 29°23 | 22° 1 | 18°39 | T 22 |
| W23 | 10 9 26 | 3°52'57 | 15°31 | 22°35 | 17°11 | 16°26 | 12° 3 | 6°59 | 29°34 | 23°49 | 5°49 | 29°19 | 29°20 | 22° 8 | 18°44 | W23 |
| T 24 | 10 13 22 | 4°53'17 | 28° 6 | 24°17 | 18°11 | 17°10 | 12° 7 | 6°55 | 29°35 | 23°51 | 5°50 | 29°19 | 29°17 | 22°14 | 18°48 | T 24 |
| F 25 | 10 17 19 | 5°53'35 | 10 ₹ 23 | 26° 0 | 19°12 | 17°54 | 12°10 | 6°51 | 29°36 | 23°54 | 5°51 | 29°D19 | 29°14 | 22°21 | 18°52 | F 25 |
| S 26 | 10 21 15 | 6°53'52 | 22°27 | 27°44 | 20°13 | 18°38 | 12°14 | 6°47 | 29°37 | 23°56 | 5°52 | 29°19 | 29°11 | 22°28 | 18°57 | S 26 |
| S 27 | 10 25 12 | 7°54'08 | 4 る 20 | 29°29 | 21°14 | 19°22 | 12°18 | 6°43 | 29°38 | 23°58 | 5°52 | 29°20 | 29° 8 | 22°34 | 19° 1 | S 27 |
| M28 | 10 29 8 | 8) 54'22 | 16 ට 9 | 1) 15 | 22 궁 16 | 20 Y 6 | 12 Ⅲ 23 | 6 Ω 39 | 29 8 39 | 24) 0 | 5 8 53 | 29≈20 | 29≈ 4 | 22 궁 41 | 19 ≈ 5 | M28 |

Delta T = 9.17 sec

MARCH 1859 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)f(| ¥ | Р | ß | Ω | Ç | ę, | Day |
|-------------|----------------------------------|-----------------------------|-------------------------------|-------------------------|----------------|-------------------------|-------------------------|-----------------------|-----------------------|-----------------------------|-----------------------|-----------------|----------------|------------------------|------------------------|-------------|
| T 1 | 10 33 5 | 9 ¥ 54'35 | 27 ⋜ 58 | 3 ¥ 2 | 23 る 18 | 20 Υ 49 | 12 Ⅲ 27 | 6°R35 | 29 8 40 | 24 米 2 | 5 8 54 | 29 ≈ 22 | 29≈ 1 | 22 る 48 | 19 ≈ 9 | T 1 |
| W 2 | 10 37 2 | 10°54'45 | 9≈50 | 4°50 | 24°20 | 21°33 | 12°32 | 6 Ω 32 | 29°42 | 24° 5 | 5°55 | 29°23 | 28°58 | 22°54 | 19°14 | W 2 |
| T 3 | 10 40 58 | 11°54'54 | 21°48 | 6°40 | 25°23 | 22°17 | 12°37 | 6°28 | 29°43 | 24° 7 | 5°56 | 29°23 | 28°55 | 23° 1 | 19°18 | T 3 |
| F 4 | 10 44 55 | 12°55'02 | 3 光 55 | 8°30 | 26°26 | 23° 1 | 12°42 | 6°25 | 29°44 | 24° 9 | 5°57 | 29°R23 | 28°52 | 23° 8 | 19°22 | F 4 |
| S 5 | 10 48 51 | 13°55'07 | 16°12 | 10°21 | 27°29 | 23°44 | 12°47 | 6°21 | 29°45 | 24°11 | 5°58 | 29°23 | 28°48 | 23°14 | 19°26 | S 5 |
| S 6 M 7 | 10 48 31 10 52 48 10 56 44 | 14°55'11 15°55'12 | 28°42 11 ° 25 | 10°21 12°14 14° 7 | 28°33 29°37 | 24°28 25°12 | 12°52 12°58 | 6°18 6°15 | 29°47 29°48 | 24°14 24°16 | 5°58 5°59 | 29°21 29°19 | 28°45 28°42 | 23°21 23°28 | 19°30 19°35 | S 6 M 7 |
| T 8 | 11 0 41 | 16°55'12 | 24°21 | 16° 1 | 0 ≈ 41 | 25°55 | 13° 3 | 6°12 | 29°50 | 24°18 | 6° 0 | 29°16 | 28°39 | 23°34 | 19°39 | T 8 |
| W 9 | 11 4 37 | 17°55'10 | 7 8 31 | 17°57 | 1°45 | 26°39 | 13° 9 | 6° 9 | 29°51 | 24°20 | 6° 1 | 29°14 | 28°36 | 23°41 | 19°43 | W 9 |
| T 10 | 11 8 34 | 18°55'05 | 20°55 | 19°53 | 2°49 | 27°22 | 13°15 | 6° 6 | 29°53 | 24°23 | 6° 2 | 29°11 | 28°33 | 23°48 | 19°47 | T 10 |
| F 11 | 11 12 30 | 19°54'58 | 4 II 32 | 21°50 | 3°54 | 28° 6 | 13°21 | 6° 3 | 29°55 | 24°25 | 6° 3 | 29°10 | 28°29 | 23°54 | 19°51 | F 11 |
| S 12 | 11 16 27 | 20°54'49 | 18°23 | 23°48 | 4°59 | 28°49 | 13°27 | 6° 0 | 29°56 | 24°27 | 6° 4 | 29°D 9 | 28°26 | 24° 1 | 19°55 | S 12 |
| S 13 | 11 20 24 | 21°54'38 | 2 © 28 | 25°46 | 6° 4 | 29°32 | 13°34 | 5°57 | 29°58 | 24°30 | 6° 5 | 29° 9 | 28°23 | 24° 8 | 19°59 | S 13 |
| M14 | 11 24 20 | 22°54'25 | 16°44 | 27°45 | 7°10 | 0 8 16 | 13°41 | 5°55 | 29°59 | 24°32 | 6° 6 | 29°10 | 28°20 | 24°14 | 20° 3 | M14 |
| T 15 | 11 28 17 | 23°54'09 | 1 Ω 10 | 29°44 | 8°15 | 0°59 | 13°47 | 5°52 | 0 II 2 | 24°34 | 6° 7 | 29°12 | 28°17 | 24°21 | 20° 7 | T 15 |
| W16 | 11 32 13 | 24°53'51 | 15°42 | 1 Υ 44 | 9°21 | 1°42 | 13°54 | 5°50 | 0° 3 | 24°36 | 6° 8 | 29°13 | 28°14 | 24°28 | 20°11 | W16 |
| T 17 | 11 36 10 | 25°53'31 | 0 m)16 | 3°43 | 10°27 | 2°25 | 14° 1 | 5°48 | 0° 5 | 24°39 | 6°10 | 29°R14 | 28°10 | 24°34 | 20°14 | T 17 |
| F 18 | 11 40 6 | 26°53'08 | 14°46 | 5°42 | 11°33 | 3° 8 | 14° 9 | 5°46 | 0° 7 | 24°41 | 6°11 | 29°13 | 28° 7 | 24°41 | 20°18 | F 18 |
| S 19 | 11 44 3 | 27°52'44 | 29° 7 | 7°41 | 12°39 | 3°52 | 14°16 | 5°44 | 0° 9 | 24°43 | 6°12 | 29°11 | 28° 4 | 24°48 | 20°22 | S 19 |
| S 20 | 11 47 59 | 28°52'17 | 13 ₾ 13 | 9°38 | 13°46 | 4°35 | 14°23 | 5°42 | 0°11 | 24°45 | 6°13 | 29° 7 | 28° 1 | 24°54 | 20°26 | S 20 |
| M21 | 11 51 56 | 29°51'49 | 26°59 | 11°34 | 14°52 | 5°18 | 14°31 | 5°40 | 0°13 | 24°48 | 6°14 | 29° 2 | 27°58 | 25° 1 | 20°30 | M21 |
| T 22 | 11 55 53 | 0 Y 51'18 | 10 ™ 23 | 13°29 | 15°59 | 6° 0 | 14°39 | 5°38 | 0°16 | 24°50 | 6°15 | 28°57 | 27°54 | 25° 8 | 20°33 | T 22 |
| W23 | 11 59 49 | 1°50'46 | 23°24 | 15°21 | 17° 6 | 6°43 | 14°47 | 5°36 | 0°18 | 24°52 | 6°16 | 28°52 | 27°51 | 25°14 | 20°37 | W23 |
| T 24 | 12 3 46 | 2°50'12 | 6 ⋌ ¹ 4 | 17°11 | 18°13 | 7°26 | 14°55 | 5°35 | 0°20 | 24°55 | 6°17 | 28°48 | 27°48 | 25°21 | 20°40 | T 24 |
| F 25 | 12 7 42 | 3°49'36 | 18°24 | 18°58 | 19°20 | 8° 9 | 15° 3 | 5°33 | 0°22 | 24°57 | 6°19 | 28°45 | 27°45 | 25°28 | 20°44 | F 25 |
| S 26 | 12 11 39 | 4°48'59 | 0 ට 29 | 20°41 | 20°28 | 8°52 | 15°11 | 5°32 | 0°24 | 24°59 | 6°20 | 28°D44 | 27°42 | 25°34 | 20°48 | S 26 |
| S 27 | 12 15 35 | 5°48'20 | 12°24 | 22°21 | 21°35 | 9°35 | 15°20 | 5°31 | 0°27 | 25° 1 | 6°21 | 28°44 | 27°39 | 25°41 | 20°51 | S 27 |
| M28 | 12 19 32 | 6°47'39 | 24°14 | 23°56 | 22°43 | 10°17 | 15°28 | 5°29 | 0°29 | 25° 4 | 6°22 | 28°45 | 27°35 | 25°48 | 20°54 | M28 |
| T 29 | 12 23 28 | 7°46'56 | 6≈ 3 | 25°27 | 23°51 | 11° 0 | 15°37 | 5°28 | 0°31 | 25° 6 | 6°23 | 28°47 | 27°32 | 25°54 | 20°58 | T 29 |
| W30 T 31 | 12 23 28 12 27 25 12 31 22 | 8°46'11 9 Υ 45'24 | 0≈ 3 17°57 0 ∺ 0 | 26°53 28 ° 14 | 24°59 26≈ 7 | 11°42 12 8 25 | 15°46 15 Ⅲ 55 | 5°27 5 Ω 27 | 0°34 0 П 36 | 25° 8 25 ¥ 10 | 6°25 6 8 26 | 28°48 28°R49 | 27°29 27≈26 | 26° 1 26 궁 8 | 20° 38° 21° 1 21≈ 5 | W30 T 31 |

Delta T = 9.16 sec

APRIL 1859 00:00 UT

| Day | Sid.t | 0 | D | ğ | Q. | ď | 4 | ħ |)f(| Ħ | В | N. | ß | Ç | ę, | Day |
|------|----------|-------------------|----------------|----------------|---------------|---------------|-----------------|---------------|---------------|----------------|---------------|--------|-------|----------------|-------|------|
| F 1 | 12 35 18 | 10 Y 44'36 | 12) 16 | 29 Y 29 | 27≈15 | 13 8 8 | 16 I I 4 | 5°R26 | 0 Д 39 | 25) 12 | 6 8 27 | 28°R48 | 27≈23 | 26 궁 14 | 21≈ 8 | F 1 |
| S 2 | 12 39 15 | 11°43'45 | 24°46 | 0 8 39 | 28°24 | 13°50 | 16°13 | 5 Ω 25 | 0°41 | 25°15 | 6°28 | 28≈45 | 27°19 | 26°21 | 21°11 | S 2 |
| S 3 | 12 43 11 | 12°42'53 | 7 Υ 34 | 1°42 | 29°32 | 14°32 | 16°22 | 5°25 | 0°44 | 25°17 | 6°30 | 28°40 | 27°16 | 26°28 | 21°14 | S 3 |
| M 4 | 12 47 8 | 13°41'58 | 20°39 | 2°39 | 0) 40 | 15°15 | 16°32 | 5°24 | 0°47 | 25°19 | 6°31 | 28°33 | 27°13 | 26°34 | 21°17 | M 4 |
| T 5 | 12 51 4 | 14°41'02 | 3 8 59 | 3°30 | 1°49 | 15°57 | 16°41 | 5°24 | 0°49 | 25°21 | 6°32 | 28°26 | 27°10 | 26°41 | 21°21 | T 5 |
| W 6 | 12 55 1 | 15°40'03 | 17°34 | 4°15 | 2°58 | 16°40 | 16°51 | 5°24 | 0°52 | 25°23 | 6°33 | 28°18 | 27° 7 | 26°48 | 21°24 | W 6 |
| T 7 | 12 58 57 | 16°39'03 | 1Ⅱ20 | 4°52 | 4° 7 | 17°22 | 17° 1 | 5°D24 | 0°55 | 25°26 | 6°35 | 28°10 | 27° 4 | 26°54 | 21°27 | T 7 |
| F 8 | 13 2 54 | 17°38'00 | 15°15 | 5°23 | 5°16 | 18° 4 | 17°11 | 5°24 | 0°57 | 25°28 | 6°36 | 28° 4 | 27° 0 | 27° 1 | 21°30 | F 8 |
| S 9 | 13 6 51 | 18°36'55 | 29°17 | 5°48 | 6°25 | 18°46 | 17°21 | 5°24 | 1° 0 | 25°30 | 6°37 | 28° 1 | 26°57 | 27° 8 | 21°32 | S 9 |
| S 10 | 13 10 47 | 19°35'47 | 139522 | 6° 5 | 7°34 | 19°28 | 17°31 | 5°25 | 1° 3 | 25°32 | 6°39 | 27°D59 | 26°54 | 27°14 | 21°35 | S 10 |
| M11 | 13 14 44 | 20°34'37 | 27°31 | 6°17 | 8°43 | 20°10 | 17°41 | 5°25 | 1° 6 | 25°34 | 6°40 | 27°59 | 26°51 | 27°21 | 21°38 | M11 |
| T 12 | 13 18 40 | 21°33'25 | 11 Ω 40 | 6°R21 | 9°52 | 20°52 | 17°51 | 5°25 | 1° 9 | 25°36 | 6°41 | 28° 0 | 26°48 | 27°28 | 21°41 | T 12 |
| W13 | 13 22 37 | 22°32'11 | 25°49 | 6°19 | 11° 1 | 21°34 | 18° 2 | 5°26 | 1°12 | 25°38 | 6°43 | 28°R 0 | 26°45 | 27°34 | 21°44 | W13 |
| T 14 | 13 26 33 | 23°30'54 | 9 m 57 | 6°12 | 12°11 | 22°16 | 18°12 | 5°27 | 1°15 | 25°40 | 6°44 | 28° 0 | 26°41 | 27°41 | 21°46 | T 14 |
| F 15 | 13 30 30 | 24°29'35 | 24° 0 | 5°58 | 13°20 | 22°58 | 18°23 | 5°28 | 1°18 | 25°42 | 6°45 | 27°57 | 26°38 | 27°48 | 21°49 | F 15 |
| S 16 | 13 34 26 | 25°28'14 | 7 ≏ 55 | 5°39 | 14°30 | 23°40 | 18°33 | 5°28 | 1°20 | 25°44 | 6°47 | 27°52 | 26°35 | 27°54 | 21°51 | S 16 |
| S 17 | 13 38 23 | 26°26'51 | 21°40 | 5°15 | 15°39 | 24°22 | 18°44 | 5°30 | 1°23 | 25°46 | 6°48 | 27°44 | 26°32 | 28° 1 | 21°54 | S 17 |
| M18 | 13 42 20 | 27°25'26 | 5 M 10 | 4°47 | 16°49 | 25° 4 | 18°55 | 5°31 | 1°27 | 25°48 | 6°49 | 27°35 | 26°29 | 28° 8 | 21°56 | M18 |
| T 19 | 13 46 16 | 28°23'59 | 18°24 | 4°14 | 17°59 | 25°45 | 19° 6 | 5°32 | 1°30 | 25°50 | 6°51 | 27°24 | 26°25 | 28°14 | 21°59 | T 19 |
| W20 | 13 50 13 | 29°22'30 | 1 ~ 19 | 3°39 | 19° 9 | 26°27 | 19°17 | 5°33 | 1°33 | 25°52 | 6°52 | 27°14 | 26°22 | 28°21 | 22° 1 | W20 |
| T 21 | 13 54 9 | 0821'00 | 13°56 | 3° 1 | 20°19 | 27° 9 | 19°28 | 5°35 | 1°36 | 25°54 | 6°53 | 27° 5 | 26°19 | 28°28 | 22° 3 | T 21 |
| F 22 | 13 58 6 | 1°19'28 | 26°15 | 2°21 | 21°29 | 27°50 | 19°39 | 5°36 | 1°39 | 25°56 | 6°55 | 26°57 | 26°16 | 28°34 | 22° 6 | F 22 |
| S 23 | 14 2 2 | 2°17'54 | 8 궁 21 | 1°41 | 22°39 | 28°32 | 19°50 | 5°38 | 1°42 | 25°58 | 6°56 | 26°52 | 26°13 | 28°41 | 22° 8 | S 23 |
| S 24 | 14 5 59 | 3°16'18 | 20°16 | 1° 0 | 23°49 | 29°13 | 20° 2 | 5°40 | 1°45 | 26° 0 | 6°57 | 26°49 | 26°10 | 28°48 | 22°10 | S 24 |
| M25 | 14 9 55 | 4°14'41 | 2≈ 6 | 0°19 | 24°59 | 29°55 | 20°13 | 5°42 | 1°48 | 26° 2 | 6°59 | 26°D48 | 26° 6 | 28°54 | 22°12 | M25 |
| T 26 | 14 13 52 | 5°13'03 | 13°55 | 29 Y 40 | 26° 9 | 0Д36 | 20°25 | 5°44 | 1°52 | 26° 4 | 7° 0 | 26°48 | 26° 3 | 29° 1 | 22°14 | T 26 |
| W27 | 14 17 49 | 6°11'23 | 25°50 | 29° 2 | 27°20 | 1°18 | 20°36 | 5°46 | 1°55 | 26° 6 | 7° 2 | 26°R49 | 26° 0 | 29° 8 | 22°16 | W27 |
| T 28 | 14 21 45 | 7° 9'41 | 7 ₩ 55 | 28°28 | 28°30 | 1°59 | 20°48 | 5°48 | 1°58 | 26° 8 | 7° 3 | 26°48 | 25°57 | 29°14 | 22°18 | T 28 |
| F 29 | 14 25 42 | 8° 7'57 | 20°16 | 27°56 | 29°40 | 2°40 | 21° 0 | 5°50 | 2° 1 | 26° 9 | 7° 4 | 26°46 | 25°54 | 29°21 | 22°20 | F 29 |
| S 30 | 14 29 38 | 9 8 6'12 | 2 Υ 56 | 27 Y 27 | 0 Υ 51 | 3耳22 | 21 I I12 | 5 Ω 53 | 2耳 5 | 26 米 11 | 7 8 6 | 26≈41 | 25≈51 | 29 궁 28 | 22≈21 | S 30 |

Delta T = 9.13 sec

MAY 1859 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ď | 4 | ħ |)f(| ¥ | Р | ß | v | Ç | ę, | Day |
|------|----------|------------------|-----------------|----------------|---------------|----------------|----------------|---------------|---------------|----------------|---------------|--------|-------|----------------|--------|------|
| S 1 | 14 33 35 | 108 4'26 | 15 Y 56 | 27°R 2 | 2 Υ 1 | 4 I I 3 | 21耳23 | 5 Ω 55 | 2 I 8 | 26 米 13 | 78 7 | 26°R34 | 25≈47 | 29 궁 34 | 22≈23 | S 1 |
| M 2 | 14 37 31 | 11° 2'38 | 29°19 | 26 Ƴ 42 | 3°12 | 4°44 | 21°35 | 5°58 | 2°11 | 26°15 | 7° 8 | 26≈24 | 25°44 | 29°41 | 22°25 | M 2 |
| T 3 | 14 41 28 | 12° 0'48 | 138 3 | 26°26 | 4°23 | 5°25 | 21°47 | 6° 0 | 2°15 | 26°16 | 7°10 | 26°13 | 25°41 | 29°48 | 22°26 | T 3 |
| W 4 | 14 45 24 | 12°58'57 | 27° 4 | 26°14 | 5°33 | 6° 6 | 22° 0 | 6° 3 | 2°18 | 26°18 | 7°11 | 26° 1 | 25°38 | 29°54 | 22°28 | W 4 |
| T 5 | 14 49 21 | 13°57'04 | 11 I I17 | 26° 7 | 6°44 | 6°48 | 22°12 | 6° 6 | 2°21 | 26°20 | 7°13 | 25°50 | 25°35 | 0≈ 1 | 22°29 | T 5 |
| F 6 | 14 53 18 | 14°55'09 | 25°37 | 26°D 5 | 7°55 | 7°29 | 22°24 | 6° 9 | 2°25 | 26°22 | 7°14 | 25°42 | 25°31 | 0° 7 | 22°31 | F 6 |
| S 7 | 14 57 14 | 15°53'12 | 9959 | 26° 7 | 9° 6 | 8°10 | 22°36 | 6°12 | 2°28 | 26°23 | 7°15 | 25°35 | 25°28 | 0°14 | 22°32 | S 7 |
| S 8 | 15 111 | 16°51'14 | 24°18 | 26°15 | 10°16 | 8°51 | 22°48 | 6°15 | 2°32 | 26°25 | 7°17 | 25°32 | 25°25 | 0°21 | 22°33 | S 8 |
| M 9 | 15 5 7 | 17°49'13 | 8 Ω 31 | 26°26 | 11°27 | 9°32 | 23° 1 | 6°19 | 2°35 | 26°26 | 7°18 | 25°30 | 25°22 | 0°27 | 22°35 | M 9 |
| T 10 | 15 9 4 | 18°47'11 | 22°36 | 26°43 | 12°38 | 10°12 | 23°13 | 6°22 | 2°38 | 26°28 | 7°19 | 25°30 | 25°19 | 0°34 | 22°36 | T 10 |
| W11 | 15 13 0 | 19°45'06 | 6 m 34 | 27° 4 | 13°49 | 10°53 | 23°26 | 6°25 | 2°42 | 26°29 | 7°21 | 25°30 | 25°16 | 0°41 | 22°37 | W11 |
| T 12 | 15 16 57 | 20°43'00 | 20°22 | 27°29 | 15° 0 | 11°34 | 23°38 | 6°29 | 2°45 | 26°31 | 7°22 | 25°28 | 25°12 | 0°47 | 22°38 | T 12 |
| F 13 | 15 20 53 | 21°40'52 | 4 º 2 | 27°58 | 16°11 | 12°15 | 23°51 | 6°33 | 2°49 | 26°32 | 7°23 | 25°25 | 25° 9 | 0°54 | 22°39 | F 13 |
| S 14 | 15 24 50 | 22°38'42 | 17°33 | 28°32 | 17°22 | 12°56 | 24° 4 | 6°36 | 2°52 | 26°34 | 7°25 | 25°18 | 25° 6 | 1° 1 | 22°40 | S 14 |
| S 15 | 15 28 47 | 23°36'31 | 0 M 54 | 29° 9 | 18°33 | 13°36 | 24°16 | 6°40 | 2°56 | 26°35 | 7°26 | 25° 8 | 25° 3 | 1° 7 | 22°41 | S 15 |
| M16 | 15 32 43 | 24°34'18 | 14° 2 | 29°50 | 19°44 | 14°17 | 24°29 | 6°44 | 2°59 | 26°37 | 7°27 | 24°57 | 25° 0 | 1°14 | 22°41 | M16 |
| T 17 | 15 36 40 | 25°32'04 | 26°57 | 0 8 35 | 20°56 | 14°57 | 24°42 | 6°48 | 3° 3 | 26°38 | 7°29 | 24°44 | 24°57 | 1°21 | 22°42 | T 17 |
| W18 | 15 40 36 | 26°29'48 | 9 .₹ 39 | 1°24 | 22° 7 | 15°38 | 24°55 | 6°52 | 3° 6 | 26°40 | 7°30 | 24°31 | 24°53 | 1°27 | 22°43 | W18 |
| T 19 | 15 44 33 | 27°27'31 | 2 <u>2</u> ° 6 | 2°15 | 23°18 | 16°19 | 25° 8 | 6°56 | 3°10 | 26°41 | 7°31 | 24°19 | 24°50 | 1°34 | 22°43 | T 19 |
| F 20 | 15 48 29 | 28°25'13 | 4 궁 19 | 3°11 | 24°29 | 16°59 | 25°21 | 7° 1 | 3°13 | 26°42 | 7°33 | 24° 9 | 24°47 | 1°41 | 22°44 | F 20 |
| S 21 | 15 52 26 | 29°22'54 | 16°21 | 4° 9 | 25°41 | 17°40 | 25°33 | 7° 5 | 3°17 | 26°43 | 7°34 | 24° 2 | 24°44 | 1°47 | 22°44 | S 21 |
| S 22 | 15 56 22 | 0Ⅲ20'33 | 28°14 | 5°11 | 26°52 | 18°20 | 25°47 | 7° 9 | 3°20 | 26°45 | 7°35 | 23°58 | 24°41 | 1°54 | 22°45 | S 22 |
| M23 | 16 0 19 | 1°18'12 | 10≈ 3 | 6°16 | 28° 3 | 19° 0 | 26° 0 | 7°14 | 3°24 | 26°46 | 7°36 | 23°55 | 24°37 | 2° 1 | 22°45 | M23 |
| T 24 | 16 4 16 | 2°15'49 | 21°51 | 7°24 | 29°15 | 19°41 | 26°13 | 7°18 | 3°27 | 26°47 | 7°38 | 23°D55 | 24°34 | 2° 7 | 22°45 | T 24 |
| W25 | 16 8 12 | 3°13'26 | 3 ∺ 46 | 8°34 | 0 8 26 | 20°21 | 26°26 | 7°23 | 3°31 | 26°48 | 7°39 | 23°R55 | 24°31 | 2°14 | 22°46 | W25 |
| T 26 | 16 12 9 | 4°11'01 | 15°51 | 9°48 | 1°38 | 21° 1 | 26°39 | 7°28 | 3°34 | 26°49 | 7°40 | 23°55 | 24°28 | 2°21 | 22°46 | T 26 |
| F 27 | 16 16 5 | 5° 8'36 | 28°13 | 11° 4 | 2°49 | 21°42 | 26°52 | 7°33 | 3°38 | 26°51 | 7°41 | 23°53 | 24°25 | 2°27 | 22°46 | F 27 |
| S 28 | 16 20 2 | 6° 6'09 | 10 Y 55 | 12°23 | 4° 1 | 22°22 | 27° 5 | 7°37 | 3°41 | 26°52 | 7°43 | 23°49 | 24°22 | 2°34 | 22°R46 | S 28 |
| S 29 | 16 23 58 | 7° 3'42 | 24° 2 | 13°45 | 5°12 | 23° 2 | 27°19 | 7°42 | 3°45 | 26°53 | 7°44 | 23°42 | 24°18 | 2°41 | 22°46 | S 29 |
| M30 | 16 27 55 | 8° 1'14 | 7 8 35 | 15°10 | 6°24 | 23°42 | 27°32 | 7°48 | 3°48 | 26°54 | 7°45 | 23°33 | 24°15 | 2°47 | 22°46 | M30 |
| T 31 | 16 31 51 | 8 Ⅱ 58'45 | 21833 | 16 8 37 | 7 8 36 | 24∏22 | 27 Ⅱ 45 | 7 Ω 53 | 3 Ⅱ 52 | 26 米 55 | 7 8 46 | 23≈23 | 24≈12 | 2≈54 | 22≈45 | T 31 |

Delta T = 9.12 sec

JUNE 1859 00:00 UT

| Day | Sid.t | 0 | D | ğ | Q. | ď | 4 | ħ |)f(| Ħ | В | u | v | Ç | ę, | Day |
|------|----------|------------------|----------------|---------------|---------------|--------|-------|----------------|---------------|----------------|---------------|--------|-------|------|--------|------|
| W 1 | 16 35 48 | 9∏56'16 | 5 Ⅱ 53 | 18 8 6 | 8 8 47 | 25Ⅲ 2 | 27耳59 | 7 Ω 58 | 3 Ⅱ 55 | 26 米 56 | 7 8 47 | 23°R12 | 24≈ 9 | 3≈ 1 | 22°R45 | W 1 |
| T 2 | 16 39 45 | 10°53'45 | 20°29 | 19°39 | 9°59 | 25°42 | 28°12 | 8° 3 | 3°59 | 26°57 | 7°49 | 23≈ 1 | 24° 6 | 3° 7 | 22≈45 | T 2 |
| F 3 | 16 43 41 | 11°51'14 | 59914 | 21°14 | 11°11 | 26°23 | 28°25 | 8° 8 | 4° 2 | 26°58 | 7°50 | 22°53 | 24° 3 | 3°14 | 22°45 | F 3 |
| S 4 | 16 47 38 | 12°48'41 | 19°59 | 22°51 | 12°23 | 27° 3 | 28°39 | 8°14 | 4° 6 | 26°58 | 7°51 | 22°47 | 23°59 | 3°21 | 22°44 | S 4 |
| S 5 | 16 51 34 | 13°46'07 | 4 Ω 39 | 24°31 | 13°34 | 27°42 | 28°52 | 8°19 | 4° 9 | 26°59 | 7°52 | 22°44 | 23°56 | 3°27 | 22°44 | S 5 |
| M 6 | 16 55 31 | 14°43'32 | 19° 6 | 26°14 | 14°46 | 28°22 | 29° 6 | 8°25 | 4°13 | 27° 0 | 7°53 | 22°D43 | 23°53 | 3°34 | 22°43 | M 6 |
| T 7 | 16 59 27 | 15°40'56 | 3 m 20 | 27°59 | 15°58 | 29° 2 | 29°19 | 8°30 | 4°16 | 27° 1 | 7°54 | 22°43 | 23°50 | 3°41 | 22°42 | T 7 |
| W 8 | 17 3 24 | 16°38'18 | 17°17 | 29°47 | 17°10 | 29°42 | 29°33 | 8°36 | 4°20 | 27° 2 | 7°56 | 22°R43 | 23°47 | 3°47 | 22°42 | W 8 |
| T 9 | 17 7 20 | 17°35'40 | 0 ჲ 59 | 1 Ⅲ 37 | 18°22 | 09522 | 29°46 | 8°42 | 4°23 | 27° 2 | 7°57 | 22°42 | 23°43 | 3°54 | 22°41 | T 9 |
| F 10 | 17 11 17 | 18°33'00 | 14°26 | 3°30 | 19°34 | 1° 2 | 29°59 | 8°48 | 4°27 | 27° 3 | 7°58 | 22°40 | 23°40 | 4° 0 | 22°40 | F 10 |
| S 11 | 17 15 14 | 19°30'19 | 27°39 | 5°25 | 20°46 | 1°42 | 09513 | 8°54 | 4°30 | 27° 4 | 7°59 | 22°34 | 23°37 | 4° 7 | 22°39 | S 11 |
| S 12 | 17 19 10 | 20°27'38 | 10 M 39 | 7°22 | 21°58 | 2°21 | 0°27 | 8°59 | 4°34 | 27° 4 | 8° 0 | 22°27 | 23°34 | 4°14 | 22°38 | S 12 |
| M13 | 17 23 7 | 21°24'56 | 23°27 | 9°21 | 23°10 | 3° 1 | 0°41 | 9° 5 | 4°37 | 27° 5 | 8° 1 | 22°18 | 23°31 | 4°20 | 22°37 | M13 |
| T 14 | 17 27 3 | 22°22'13 | 6 ₹ 3 | 11°23 | 24°22 | 3°41 | 0°54 | 9°11 | 4°40 | 27° 5 | 8° 2 | 22° 7 | 23°28 | 4°27 | 22°36 | T 14 |
| W15 | 17 31 0 | 23°19'29 | 18°28 | 13°27 | 25°34 | 4°20 | 1° 8 | 9°18 | 4°44 | 27° 6 | 8° 3 | 21°57 | 23°24 | 4°34 | 22°35 | W15 |
| T 16 | 17 34 56 | 24°16'45 | 0 る 42 | 15°32 | 26°46 | 5° 0 | 1°21 | 9°24 | 4°47 | 27° 6 | 8° 4 | 21°47 | 23°21 | 4°40 | 22°34 | T 16 |
| F 17 | 17 38 53 | 25°14'00 | 12°46 | 17°39 | 27°58 | 5°39 | 1°35 | 9°30 | 4°50 | 27° 7 | 8° 5 | 21°39 | 23°18 | 4°47 | 22°33 | F 17 |
| S 18 | 17 42 50 | 26°11'15 | 24°42 | 19°48 | 29°10 | 6°19 | 1°49 | 9°36 | 4°54 | 27° 7 | 8° 6 | 21°33 | 23°15 | 4°54 | 22°32 | S 18 |
| S 19 | 17 46 46 | 27° 8'29 | 6≈31 | 21°57 | 0Ⅲ22 | 6°59 | 2° 2 | 9°43 | 4°57 | 27° 8 | 8° 7 | 21°30 | 23°12 | 5° 0 | 22°30 | S 19 |
| M20 | 17 50 43 | 28° 5'43 | 18°19 | 24° 8 | 1°34 | 7°38 | 2°16 | 9°49 | 5° 0 | 27° 8 | 8° 8 | 21°D28 | 23° 9 | 5° 7 | 22°29 | M20 |
| T 21 | 17 54 39 | 29° 2'57 | 0 ∺ 7 | 26°19 | 2°46 | 8°17 | 2°30 | 9°55 | 5° 4 | 27° 8 | 8° 9 | 21°29 | 23° 5 | 5°14 | 22°28 | T 21 |
| W22 | 17 58 36 | 099 0'10 | 12° 1 | 28°30 | 3°59 | 8°57 | 2°43 | 10° 2 | 5° 7 | 27° 9 | 8°10 | 21°30 | 23° 2 | 5°20 | 22°26 | W22 |
| T 23 | 18 2 32 | 0°57'24 | 24° 6 | 09542 | 5°11 | 9°36 | 2°57 | 10° 8 | 5°10 | 27° 9 | 8°11 | 21°31 | 22°59 | 5°27 | 22°25 | T 23 |
| F 24 | 18 6 29 | 1°54'37 | 6 Y 26 | 2°53 | 6°23 | 10°16 | 3°11 | 10°15 | 5°14 | 27° 9 | 8°12 | 21°R31 | 22°56 | 5°34 | 22°23 | F 24 |
| S 25 | 18 10 25 | 2°51'51 | 19° 7 | 5° 4 | 7°36 | 10°55 | 3°24 | 10°22 | 5°17 | 27° 9 | 8°12 | 21°30 | 22°53 | 5°40 | 22°21 | S 25 |
| S 26 | 18 14 22 | 3°49'04 | 2 8 13 | 7°14 | 8°48 | 11°34 | 3°38 | 10°28 | 5°20 | 27°10 | 8°13 | 21°26 | 22°49 | 5°47 | 22°20 | S 26 |
| M27 | 18 18 19 | 4°46'18 | 15°46 | 9°23 | 10° 0 | 12°14 | 3°52 | 10°35 | 5°23 | 27°10 | 8°14 | 21°21 | 22°46 | 5°54 | 22°18 | M27 |
| T 28 | 18 22 15 | 5°43'31 | 29°48 | 11°31 | 11°13 | 12°53 | 4° 5 | 10°42 | 5°26 | 27°10 | 8°15 | 21°15 | 22°43 | 6° 0 | 22°16 | T 28 |
| W29 | 18 26 12 | 6°40'45 | 14∐15 | 13°37 | 12°25 | 13°32 | 4°19 | 10°48 | 5°29 | 27°10 | 8°16 | 21° 8 | 22°40 | 6° 7 | 22°14 | W29 |
| T 30 | 18 30 8 | 7 9 37'59 | 29耳 3 | 159542 | 13耳38 | 149512 | 4933 | 10 N 55 | 5 ∏ 33 | 27 ∺ 10 | 8 8 17 | 21≈ 2 | 22≈37 | 6≈14 | 22≈12 | T 30 |

Delta T = 9.10 sec

JULY 1859 00:00 UT

| Day | Sid.t | 0 | D | ğ | · | ð | 4 | ħ |)∤(| ¥ | Р | ß | v | ţ | , k | Day |
|--------------|----------------------|----------------------|-------------------------|----------------|-----------------------|----------------|--------------|----------------|----------------|----------------|---------------|----------------|----------------|---------------|----------------|--------------|
| F 1 | 18 34 5 | 8935'12 | 1495 3 | 179546 | 14Ⅲ50 | 14951 | 49546 | 11& 2 | 5 П 36 | 27°R10 | 8 8 17 | 20°R57 | 22≈34 | 6≈20 | 22°R10 | F 1 |
| S 2 | 18 38 1 | 9°32'26 | 29° 8 | 19°48 | 16° 3 | 15°30 | 5° 0 | 11° 9 | 5°39 | 27) 10 | 8°18 | 20≈53 | 22°30 | 6°27 | 22 ≈ 8 | S 2 |
| S 3 | 18 41 58 | 10°29'39 | 14Ω 7 | 21°48 | 17°16 | 16° 9 | 5°14 | 11°16 | 5°42 | 27°10 | 8°19 | 20°D51 | 22°27 | 6°33 | 22° 6 | S 3 |
| M 4 | 18 45 54 | 11°26'52 | 28°53 | 23°46 | 18°28 | 16°48 | 5°27 | 11°23 | 5°45 | 27°10 | 8°20 | 20°51 | 22°24 | 6°40 | 22° 4 | M 4 |
| T 5 | 18 49 51 | 12°24'05 | 13 M 21 | 25°43 | 19°41 | 17°27 | 5°41 | 11°30 | 5°48 | 27°10 | 8°20 | 20°53 | 22°21 | 6°47 | 22° 2 | T 5 |
| W 6 | 18 53 48 | 13°21'18 | 27°28 | 27°37 | 20°53 | 18° 6 | 5°54 | 11°37 | 5°51 | 27° 9 | 8°21 | 20°54 | 22°18 | 6°53 | 22° 0 | W 6 |
| T 7 | 18 57 44 | 14°18'30 | 11 ≏ 13 | 29°30 | 22° 6 | 18°45 | 6° 8 | 11°44 | 5°54 | 27° 9 | 8°22 | 20°R55 | 22°15 | 7° 0 | 21°57 | T 7 |
| F 8 | 19 141 | 15°15'42 | 24°37 | 1 \O 20 | 23°19 | 19°25 | 6°22 | 11°52 | 5°57 | 27° 9 | 8°22 | 20°54 | 22°11 | 7° 7 | 21°55 | F 8 |
| S 9 | 19 5 37 | 16°12'54 | 7 M 42 | 3° 9 | 24°32 | 20° 4 | 6°35 | 11°59 | 5°59 | 27° 9 | 8°23 | 20°52 | 22° 8 | 7°13 | 21°53 | S 9 |
| S 10 | 19 9 34 | 17°10'06 | 20°30 | 4°56 | 25°44 | 20°43 | 6°49 | 12° 6 | 6° 2 | 27° 8 | 8°23 | 20°49 | 22° 5 | 7°20 | 21°50 | S 10 |
| M11 | 19 13 30 | 18° 7'18 | 3 ∡ 3 | 6°40 | 26°57 | 21°21 | 7° 2 | 12°13 | 6° 5 | 27° 8 | 8°24 | 20°45 | 22° 2 | 7°27 | 21°48 | M11 |
| T 12 | 19 17 27 | 19° 4'31 | 15°24 | 8°23 | 28°10 | 22° 0 | 7°16 | 12°20 | 6° 8 | 27° 8 | 8°25 | 20°39 | 21°59 | 7°33 | 21°45 | T 12 |
| W13 | 19 21 23 | 20° 1'43 | 27°34 | 10° 4 | 29°23 | 22°39 | 7°29 | 12°28 | 6°11 | 27° 7 | 8°25 | 20°34 | 21°55 | 7°40 | 21°43 | W13 |
| T 14 F 15 | 19 25 20 19 29 17 | 20°58'55 21°56'08 | 9 る 36 21°32 | 11°43 13°20 | 0 9 36 1°49 | 23°18 23°57 | 7°43 7°56 | 12°35 12°42 | 6°13 6°16 | 27° 7 27° 7 | 8°26 8°26 | 20°29 20°26 | 21°52 21°49 | 7°47 7°53 | 21°40 21°38 | T 14 F 15 |
| S 16 | 19 29 17 | 21°53'22 | 3≈22 | 13°20 14°55 | 3° 1 | 23°37 24°36 | 8° 9 | 12°42 12°50 | 6°19 | 27° 6 | 8°27 | 20°23 | 21°46 | 8° 0 | 21°35 | S 16 |
| | | | | | | | | | | | | | | | | |
| S 17 | 19 37 10 | 23°50'35 | 15°10 | 16°27 | 4°14 | 25°15 | 8°23 | 12°57 | 6°21 | 27° 6 | 8°27 | 20°D22 | 21°43 | 8° 7 | 21°33 | S 17 |
| M18 T 19 | 19 41 6 19 45 3 | 24°47'49 25°45'04 | 26°58 8) (48 | 17°58 19°27 | 5°27 6°40 | 25°54 26°32 | 8°36 8°49 | 13° 5 13°12 | 6°24 6°27 | 27° 5 27° 4 | 8°28 8°28 | 20°22 20°23 | 21°40 21°36 | 8°13 8°20 | 21°30 21°27 | M18 T 19 |
| W20 | 19 43 3 | 25°43'04 26°42'19 | 20°45 | 20°54 | 7°54 | 20 32 27°11 | 9° 3 | 13°20 | 6°29 | 27° 4 | 8°29 | 20°24 | 21°33 | 8°27 | 21°24 | W20 |
| T 21 | 19 48 39 | 20°42 19 27°39'35 | 20 43 2 Υ 51 | 20°19 | 9° 7 | 27°50 | 9°16 | 13°27 | 6°32 | 27° 3 | 8°29 | 20°26 | 21°30 | 8°33 | 21°22 | T 21 |
| F 22 | 19 56 52 | 28°36'52 | 15°12 | 23°42 | 10°20 | 28°29 | 9°29 | 13°35 | 6°34 | 27° 3 | 8°29 | 20°27 | 21°27 | 8°40 | 21°19 | F 22 |
| S 23 | 20 0 49 | 29°34'10 | 27°52 | 25° 3 | 11°33 | 29° 7 | 9°43 | 13°42 | 6°37 | 27° 2 | 8°30 | 20°R28 | 21°24 | 8°46 | 21°16 | S 23 |
| S 24 | 20 4 46 | 0Ω31'29 | 10854 | 26°21 | 12°46 | 29°46 | 9°56 | 13°50 | 6°39 | 27° 1 | 8°30 | 20°27 | 21°21 | 8°53 | 21°13 | S 24 |
| M25 | 20 8 42 | 1°28'49 | 24°22 | 27°38 | 13°59 | $0\Omega_{25}$ | 10° 9 | 13°57 | 6°41 | 27° 0 | 8°30 | 20°26 | 21°17 | 9° 0 | 21°10 | M25 |
| T 26 | 20 12 39 | 2°26'09 | 8 Ⅱ 17 | 28°52 | 15°13 | 1° 3 | 10°22 | 14° 5 | 6°44 | 27° 0 | 8°31 | 20°25 | 21°14 | 9° 6 | 21° 7 | T 26 |
| W27 | 20 16 35 | 3°23'31 | 22°38 | 0 Mp 4 | 16°26 | 1°42 | 10°35 | 14°12 | 6°46 | 26°59 | 8°31 | 20°22 | 21°11 | 9°13 | 21° 4 | W27 |
| T 28 | 20 20 32 | 4°20'54 | 79523 | 1°14 | 17°39 | 2°21 | 10°48 | 14°20 | 6°48 | 26°58 | 8°31 | 20°20 | 21° 8 | 9°20 | 21° 1 | T 28 |
| F 29 | 20 24 28 | 5°18'18 | 22°25 | 2°21 | 18°53 | 2°59 | 11° 1 | 14°28 | 6°50 | 26°57 | 8°31 | 20°19 | 21° 5 | 9°26 | 20°58 | F 29 |
| S 30 | 20 28 25 | 6°15'42 | 7 Ω 36 | 3°25 | 20° 6 | 3°38 | 11°14 | 14°35 | 6°53 | 26°56 | 8°32 | 20°18 | 21° 1 | 9°33 | 20°55 | S 30 |
| S 31 | 20 32 22 | 7 Ω 13'08 | 22 Ω 46 | 4 M) 27 | 219520 | 4 Ω 16 | 119527 | 14 Ω 43 | 6 II 55 | 26 ¥ 55 | 8 8 32 | 20°D18 | 20≈58 | 9 ≈ 40 | 20≈52 | S 31 |

Delta T = 9.08 sec

AUGUST 1859 00:00 UT

| Day | Sid.t | 0 | D | φ | φ | ♂ | 4 | ħ |)f(| ¥ | Р | ß | Ω | Ç | , k | Day |
|--------------|----------------------|-----------------------|------------------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|----------------|----------------|--------------|
| M 1 | 20 36 18 | 8 \Omega 10'34 | 7 m /46 | 5Mp26 | 22933 | 4 Ω 55 | 119540 | 14 Ω 51 | 6 Ⅱ 57 | 26°R55 | 8 8 32 | 20≈18 | 20≈55 | 9≈46 | 20°R49 | M 1 |
| T 2 | 20 40 15 | 9° 8'00 | 22°29 | 6°23 | 23°46 | 5°34 | 11°53 | 14°58 | 6°59 | 26 米 54 | 8°32 | 20°19 | 20°52 | 9°53 | 20≈46 | T 2 |
| W 3 | 20 44 11 | 10° 5'28 | 6 Ω 49 | 7°16 | 25° 0 | 6°12 | 12° 6 | 15° 6 | 7° 1 | 26°53 | 8°32 | 20°20 | 20°49 | 10° 0 | 20°43 | W 3 |
| T 4 | 20 48 8 | 11° 2'56 | 20°43 | 8° 6 | 26°14 | 6°51 | 12°18 | 15°14 | 7° 3 | 26°52 | 8°32 | 20°20 | 20°46 | 10° 6 | 20°40 | T 4 |
| F 5 | 20 52 4 | 12° 0'25 | 4ML12 | 8°53 | 27°27 | 7°29 | 12°31 | 15°21 | 7° 5 | 26°50 | 8°32 | 20°21 | 20°42 | 10°13 | 20°37 | F 5 |
| S 6 | 20 56 1 | 12°57'55 | 17°17 | 9°36 | 28°41 | 8° 8 | 12°44 | 15°29 | 7° 7 | 26°49 | 8°32 | 20°R21 | 20°39 | 10°20 | 20°34 | S 6 |
| S 7 | 20 59 57 | 13°55'25 | 0 才 1 | 10°16 | 29°54 | 8°46 | 12°56 | 15°37 | 7° 9 | 26°48 | 8°33 | 20°21 | 20°36 | 10°26 | 20°31 | S 7 |
| M 8 | 21 3 54 | 14°52'56 | 12°27 | 10°52 | 1 N 8 | 9°24 | 13° 9 | 15°45 | 7°10 | 26°47 | 8°33 | 20°20 | 20°33 | 10°33 | 20°28 | M 8 |
| T 9 | 21 7 51 | 15°50'29 | 24°39 | 11°24 | 2°22 | 10° 3 | 13°21 | 15°52 | 7°12 | 26°46 | 8°R33 | 20°19 | 20°30 | 10°40 | 20°25 | T 9 |
| W10 | 21 11 47 | 16°48'02 | 6 පි 40 | 11°52 | 3°35 | 10°41 | 13°34 | 16° 0 | 7°14 | 26°45 | 8°33 | 20°19 | 20°27 | 10°46 | 20°21 | W10 |
| T 11 | 21 15 44 | 17°45'36 | 18°34 | 12°15 | 4°49 | 11°20 | 13°46 | 16° 8 | 7°16 | 26°44 | 8°33 | 20°19 | 20°23 | 10°53 | 20°18 | T 11 |
| F 12 | 21 19 40 | 18°43'11 | 0≈24 | 12°33 | 6° 3 | 11°58 | 13°58 | 16°15 | 7°17 | 26°43 | 8°32 | 20°18 | 20°20 | 10°59 | 20°15 | F 12 |
| S 13 | 21 23 37 | 19°40'47 | 12°12 | 12°47 | 7°17 | 12°36 | 14°11 | 16°23 | 7°19 | 26°41 | 8°32 | 20°18 | 20°17 | 11° 6 | 20°12 | S 13 |
| S 14 | 21 27 33 | 20°38'25 | 24° 0 | 12°56 | 8°31 | 13°15 | 14°23 | 16°31 | 7°20 | 26°40 | 8°32 | 20°18 | 20°14 | 11°13 | 20° 9 | S 14 |
| M15 | 21 31 30 | 21°36'03 | 5 ¥ 52 | 12°R59 | 9°44 | 13°53 | 14°35 | 16°38 | 7°22 | 26°39 | 8°32 | 20°18 | 20°11 | 11°19 | 20° 6 | M15 |
| T 16 | 21 35 26 | 22°33'43 | 17°48 | 12°57 | 10°58 | 14°31 | 14°47 | 16°46 | 7°23 | 26°38 | 8°32 | 20°18 | 20° 7 | 11°26 | 20° 3 | T 16 |
| W17 | 21 39 23 | 23°31'25 | 29°52 | 12°49 | 12°12 | 15°10 | 14°59 | 16°54 | 7°25 | 26°36 | 8°32 | 20°18 | 20° 4 | 11°33 | 20° 0 | W17 |
| T 18 | 21 43 19 | 24°29'07 | 12 ° 7 | 12°35 | 13°26 | 15°48 | 15°11 | 17° 1 | 7°26 | 26°35 | 8°32 | 20°17 | 20° 1 | 11°39 | 19°56 | T 18 |
| F 19 S 20 | 21 47 16 21 51 13 | 25°26'52 26°24'38 | 24°34 7 8 16 | 12°16 11°51 | 14°40 15°54 | 16°26 17° 5 | 15°23 15°35 | 17° 9 17°17 | 7°27 7°29 | 26°34 26°32 | 8°31 8°31 | 20°17 20°16 | 19°58 19°55 | 11°46 11°53 | 19°53 19°50 | F 19 S 20 |
| 5 20 | 21 31 13 | 20 24 38 | _ | | | 1/ 3 | 13 33 | | | | | | | | | |
| S 21 | 21 55 9 | 27°22'26 | 20°18 | 11°21 | 17° 8 | 17°43 | 15°46 | 17°24 | 7°30 | 26°31 | 8°31 | 20°16 | 19°52 | 11°59 | 19°47 | S 21 |
| M22 | 21 59 6 | 28°20'16 | 3 Ⅱ 40 | 10°45 | 18°22 | 18°21 | 15°58 | 17°32 | 7°31 | 26°29 | 8°31 | 20°D16 | 19°48 | 12° 6 | 19°44 | M22 |
| T 23 | 22 3 2 | 29°18'07 | 17°26 | 10° 4 | 19°36 | 18°59 | 16°10 | 17°39 | 7°32 | 26°28 | 8°30 | 20°16 | 19°45 | 12°13 | 19°41 | T 23 |
| W24 | 22 6 59 | 0 m/ 16'00 | 1935 | 9°19 | 20°51 | 19°38 | 16°21 | 17°47 | 7°33 | 26°27 | 8°30 | 20°17 | 19°42 | 12°19 | 19°38 | W24 |
| T 25 | 22 10 55 | 1°13'55 | 16° 6 | 8°30 | 22° 5 | 20°16 | 16°33 | 17°55 | 7°34 | 26°25 | 8°30 | 20°18 | 19°39 | 12°26 | 19°35 | T 25 |
| F 26 | 22 14 52 | 2°11'52 | 0 Ω 55 | 7°38 | 23°19 | 20°54 | 16°44 | 18° 2 | 7°35 | 26°24 | 8°29 | 20°19 | 19°36 | 12°32 | 19°32 | F 26 S 27 |
| S 27 | 22 18 49 | 3° 9'50 | 15°57 | 6°43 | 24°33 | 21°32 | 16°55 | 18°10 | 7°36 | 26°22 | 8°29 | 20°R19 | 19°32 | 12°39 | 19°29 | |
| S 28 | 22 22 45 | 4° 7'50 | 1 Mp 3 | 5°47 | 25°47 | 22°11 | 17° 7 | 18°17 | 7°37 | 26°21 | 8°29 | 20°19 | 19°29 | 12°46 | 19°26 | S 28 |
| M29 | 22 26 42 | 5° 5'52 | 16° 5 | 4°52 | 27° 2 | 22°49 | 17°18 | 18°25 | 7°38 | 26°19 | 8°28 | 20°18 | 19°26 | 12°52 | 19°23 | M29 |
| T 30 | 22 30 38 | 6° 3'55 | 0 <u>₽</u> 53 | 3°57 | 28°16 | 23°27 | 17°29 | 18°32 | 7°38 | 26°18 | 8°28 | 20°16 | 19°23 | 12°59 | 19°20 | T 30 |
| W31 | 22 34 35 | 7Mm, 2'00 | 15 ≏ 22 | 3 m 5 | 29 Ω 30 | 24 Ω 5 | 179540 | 18 Ω 40 | 7 耳 39 | 26 米 16 | 8 8 27 | 20≈14 | 19≈20 | 13 ≈ 6 | 19 ≈ 17 | W31 |

Delta T = 9.06 sec

SEPTEMBER 1859 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ♂ | 4 | ħ |)∤(| ¥ | В | ß | v | Ç | ę, | Day |
|------|----------|-------------------|----------------|------------------|---------------|----------------|--------|----------------|---------------|----------------|---------------|--------|----------------|-------|----------------|------|
| T 1 | 22 38 31 | 8 m) 0'06 | 29 <u>₽</u> 25 | 2°R16 | 0 m 45 | 24 Ω 43 | 17951 | 18 Ω 47 | 7 ∐ 40 | 26°R14 | 8°R27 | 20°R12 | 19≈17 | 13≈12 | 19°R14 | T 1 |
| F 2 | 22 42 28 | 8°58'13 | 13 M 1 | 1 m p 3 1 | 1°59 | 25°21 | 18° 1 | 18°55 | 7°40 | 26) 13 | 8 8 27 | 20≈10 | 19°13 | 13°19 | 19 ≈ 11 | F 2 |
| S 3 | 22 46 24 | 9°56'23 | 26°11 | 0°53 | 3°13 | 26° 0 | 18°12 | 19° 2 | 7°41 | 26°11 | 8°26 | 20° 9 | 19°10 | 13°26 | 19° 8 | S 3 |
| S 4 | 22 50 21 | 10°54'33 | 8 ∡ 756 | 0°21 | 4°28 | 26°38 | 18°23 | 19° 9 | 7°41 | 26°10 | 8°25 | 20°D 8 | 19° 7 | 13°32 | 19° 5 | S 4 |
| M 5 | 22 54 17 | 11°52'45 | 21°21 | 29 N 56 | 5°42 | 27°16 | 18°33 | 19°17 | 7°42 | 26° 8 | 8°25 | 20° 8 | 19° 4 | 13°39 | 19° 2 | M 5 |
| T 6 | 22 58 14 | 12°50'59 | 3 ට 30 | 29°40 | 6°57 | 27°54 | 18°44 | 19°24 | 7°42 | 26° 7 | 8°24 | 20° 9 | 19° 1 | 13°46 | 19° 0 | T 6 |
| W 7 | 23 2 11 | 13°49'14 | 15°27 | 29°D32 | 8°11 | 28°32 | 18°54 | 19°31 | 7°43 | 26° 5 | 8°24 | 20°11 | 18°58 | 13°52 | 18°57 | W 7 |
| T 8 | 23 6 7 | 14°47'30 | 27°17 | 29°33 | 9°26 | 29°10 | 19° 4 | 19°38 | 7°43 | 26° 3 | 8°23 | 20°13 | 18°54 | 13°59 | 18°54 | T 8 |
| F 9 | 23 10 4 | 15°45'48 | 9≈ 5 | 29°43 | 10°40 | 29°48 | 19°14 | 19°46 | 7°43 | 26° 2 | 8°23 | 20°14 | 18°51 | 14° 6 | 18°52 | F 9 |
| S 10 | 23 14 0 | 16°44'08 | 20°53 | 0Mg 2 | 11°55 | 0 m 26 | 19°24 | 19°53 | 7°43 | 26° 0 | 8°22 | 20°R15 | 18°48 | 14°12 | 18°49 | S 10 |
| S 11 | 23 17 57 | 17°42'29 | 2) 45 | 0°30 | 13° 9 | 1° 4 | 19°34 | 20° 0 | 7°44 | 25°58 | 8°21 | 20°14 | 18°45 | 14°19 | 18°46 | S 11 |
| M12 | 23 21 53 | 18°40'53 | 14°44 | 1° 6 | 14°24 | 1°42 | 19°44 | 20° 7 | 7°44 | 25°57 | 8°21 | 20°12 | 18°42 | 14°25 | 18°44 | M12 |
| T 13 | 23 25 50 | 19°39'18 | 26°52 | 1°51 | 15°38 | 2°20 | 19°54 | 20°14 | 7°R44 | 25°55 | 8°20 | 20° 8 | 18°38 | 14°32 | 18°41 | T 13 |
| W14 | 23 29 46 | 20°37'44 | 9Υ9 | 2°45 | 16°53 | 2°58 | 20° 4 | 20°21 | 7°44 | 25°54 | 8°19 | 20° 4 | 18°35 | 14°39 | 18°39 | W14 |
| T 15 | 23 33 43 | 21°36'13 | 21°38 | 3°45 | 18° 8 | 3°36 | 20°13 | 20°28 | 7°44 | 25°52 | 8°19 | 19°58 | 18°32 | 14°45 | 18°36 | T 15 |
| F 16 | 23 37 40 | 22°34'44 | 4 8 19 | 4°53 | 19°22 | 4°14 | 20°22 | 20°35 | 7°44 | 25°50 | 8°18 | 19°53 | 18°29 | 14°52 | 18°34 | F 16 |
| S 17 | 23 41 36 | 23°33'17 | 17°13 | 6° 7 | 20°37 | 4°52 | 20°32 | 20°42 | 7°43 | 25°49 | 8°17 | 19°48 | 18°26 | 14°59 | 18°31 | S 17 |
| S 18 | 23 45 33 | 24°31'53 | 0П21 | 7°27 | 21°52 | 5°30 | 20°41 | 20°49 | 7°43 | 25°47 | 8°16 | 19°44 | 18°23 | 15° 5 | 18°29 | S 18 |
| M19 | 23 49 29 | 25°30'30 | 13°45 | 8°52 | 23° 6 | 6° 8 | 20°50 | 20°56 | 7°43 | 25°45 | 8°16 | 19°42 | 18°19 | 15°12 | 18°27 | M19 |
| T 20 | 23 53 26 | 26°29'10 | 27°26 | 10°22 | 24°21 | 6°46 | 20°59 | 21° 2 | 7°43 | 25°44 | 8°15 | 19°D42 | 18°16 | 15°19 | 18°25 | T 20 |
| W21 | 23 57 22 | 27°27'52 | 119523 | 11°56 | 25°36 | 7°24 | 21° 8 | 21° 9 | 7°42 | 25°42 | 8°14 | 19°42 | 18°13 | 15°25 | 18°22 | W21 |
| T 22 | 0 1 19 | 28°26'37 | 25°37 | 13°33 | 26°51 | 8° 2 | 21°16 | 21°16 | 7°42 | 25°40 | 8°13 | 19°44 | 18°10 | 15°32 | 18°20 | T 22 |
| F 23 | 0 5 15 | 29°25'23 | 10 N 6 | 15°13 | 28° 5 | 8°40 | 21°25 | 21°22 | 7°42 | 25°39 | 8°12 | 19°45 | 18° 7 | 15°39 | 18°18 | F 23 |
| S 24 | 0 9 12 | 0 ≏ 24'12 | 24°47 | 16°55 | 29°20 | 9°18 | 21°33 | 21°29 | 7°41 | 25°37 | 8°12 | 19°R45 | 18° 4 | 15°45 | 18°16 | S 24 |
| S 25 | 0 13 9 | 1°23'03 | 9 m y35 | 18°40 | 0 ჲ 35 | 9°56 | 21°42 | 21°36 | 7°40 | 25°35 | 8°11 | 19°43 | 18° 0 | 15°52 | 18°14 | S 25 |
| M26 | 0 17 5 | 2°21'56 | 24°23 | 20°25 | 1°50 | 10°34 | 21°50 | 21°42 | 7°40 | 25°34 | 8°10 | 19°40 | 17°57 | 15°58 | 18°12 | M26 |
| T 27 | 0 21 2 | 3°20'51 | 9 ≏ 4 | 22°12 | 3° 5 | 11°12 | 21°58 | 21°49 | 7°39 | 25°32 | 8° 9 | 19°35 | 17°54 | 16° 5 | 18°10 | T 27 |
| W28 | 0 24 58 | 4°19'48 | 23°29 | 23°59 | 4°20 | 11°50 | 22° 6 | 21°55 | 7°38 | 25°30 | 8° 8 | 19°28 | 17°51 | 16°12 | 18° 8 | W28 |
| T 29 | 0 28 55 | 5°18'47 | 7 M .33 | 25°47 | 5°35 | 12°28 | 22°14 | 22° 1 | 7°38 | 25°29 | 8° 7 | 19°20 | 17°48 | 16°18 | 18° 6 | T 29 |
| F 30 | 0 32 51 | 6 ≏ 17'48 | 21 m 12 | 27 m 36 | 6 ₽ 49 | 13 m 6 | 229521 | 22Ω 7 | 7 Ⅱ 37 | 25 米 27 | 8 8 6 | 19≈13 | 17 ≈ 44 | 16≈25 | 18 ≈ 5 | F 30 |

Delta T = 9.05 sec

OCTOBER 1859 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)f(| ¥ | Р | r | Ω | Ç | ď | Day |
|--------------|--------------------|----------------------|-------------------------|-----------------|----------------|-----------------------|----------------|---------------------|----------------|----------------|---------------|-----------------|----------------|----------------|----------------|--------------|
| S 1 | 0 36 48 | 7 ≙ 16'51 | 4 ₹ 26 | 29 m 24 | 8요 4 | 13 M 44 | 22529 | 22 \Omega 14 | 7°R36 | 25°R25 | 8°R 5 | 19°R 7 | 17≈41 | 16 ≈ 32 | 18°R 3 | S 1 |
| S 2 | 0 40 44 | 8°15'55 | 17°14 | 1 ≏ 12 | 9°19 | 14°22 | 22°36 | 22°20 | 7 Ⅱ 35 | 25 ∺ 24 | 8 8 4 | 19 ≈ 3 | 17°38 | 16°38 | 18 ≈ 1 | S 2 |
| M 3 | 0 44 41 | 9°15'02 | 29°41 | 3° 0 | 10°34 | 15° 0 | 22°43 | 22°26 | 7°34 | 25°22 | 8° 3 | 19° 0 | 17°35 | 16°45 | 18° 0 | M 3 |
| T 4 | 0 48 38 | 10°14'10 | 11 궁 50 | 4°48 | 11°49 | 15°38 | 22°50 | 22°32 | 7°33 | 25°21 | 8° 2 | 19°D 0 | 17°32 | 16°52 | 17°58 | T 4 |
| W 5 | 0 52 34 | 11°13'20 | 23°46 | 6°35 | 13° 4 | 16°16 | 22°57 | 22°38 | 7°32 | 25°19 | 8° 1 | 19° 0 | 17°29 | 16°58 | 17°57 | W 5 |
| T 6 | 0 56 31 | 12°12'31 | 5≈36 | 8°21 | 14°19 | 16°53 | 23° 4 | 22°44 | 7°31 | 25°17 | 8° 0 | 19° 2 | 17°25 | 17° 5 | 17°55 | T 6 |
| F 7 | 1 0 27 | 13°11'45 | 17°23 | 10° 7 | 15°34 | 17°31 | 23°11 | 22°50 | 7°30 | 25°16 | 7°59 | 19°R 2 | 17°22 | 17°12 | 17°54 | F 7 |
| S 8 | 1 4 24 | 14°11'00 | 29°14 | 11°53 | 16°49 | 18° 9 | 23°17 | 22°55 | 7°29 | 25°14 | 7°58 | 19° 2 | 17°19 | 17°18 | 17°53 | S 8 |
| S 9 | 1 8 20 | 15°10'17 | 11 米 11 | 13°37 | 18° 4 | 18°47 | 23°24 | 23° 1 | 7°27 | 25°13 | 7°57 | 18°59 | 17°16 | 17°25 | 17°51 | S 9 |
| M10 | 1 12 17 | 16° 9'36 | 23°18 | 15°21 | 19°19 | 19°25 | 23°30 | 23° 7 | 7°26 | 25°11 | 7°56 | 18°54 | 17°13 | 17°31 | 17°50 | M10 |
| T 11 | 1 16 13 | 17° 8'57 | 5 Υ 38 | 17° 4 | 20°34 | 20° 3 | 23°36 | 23°12 | 7°25 | 25°10 | 7°55 | 18°47 | 17° 9 | 17°38 | 17°49 | T 11 |
| W12 | 1 20 10 | 18° 8'20 | 18°12 | 18°47 | 21°49 | 20°41 | 23°42 | 23°18 | 7°24 | 25° 8 | 7°54 | 18°37 | 17° 6 | 17°45 | 17°48 | W12 |
| T 13 | 1 24 6 | 19° 7'45 | 18 1 | 20°29 | 23° 4 | 21°18 | 23°47 | 23°23 | 7°22 | 25° 7 | 7°53 | 18°26 | 17° 3 | 17°51 | 17°47 | T 13 |
| F 14 | 1 28 3 | 20° 7'12 21° 6'41 | 14° 2 27°17 | 22°10 | 24°19 | 21°56 | 23°53 | 23°29 | 7°21 7°19 | 25° 5 25° 4 | 7°52 | 18°15 18° 5 | 17° 0 | 17°58 18° 5 | 17°46 17°45 | F 14 |
| S 15 | 1 32 0 | - | | 23°51 | 25°34 | 22°34 | 23°58 | 23°34 | | | 7°51 | | 16°57 | | | S 15 |
| S 16 | 1 35 56 | 22° 6'13 | 10 Ⅱ 43 | 25°31 | 26°49 | 23°12 | 24° 3 | 23°39 | 7°18 | 25° 2 | 7°50 | 17°57 | 16°54 | 18°11 | 17°44 | S 16 |
| M17 | 1 39 53 | 23° 5'47 | 24°19 | 27°10 | 28° 4 | 23°50 | 24° 9 | 23°44 | 7°16 | 25° 1 | 7°49 | 17°51 | 16°50 | 18°18 | 17°44 | M17 |
| T 18 | 1 43 49 | 24° 5'23 | 895 4 | 28°48 | 29°19 | 24°28 | 24°13 | 23°49 | 7°14 | 25° 0 | 7°48 | 17°48 | 16°47 | 18°25 | 17°43 | T 18 |
| W19 | 1 47 46 | 25° 5'01 | 21°59 | 0M26 | 0M.34 | 25° 6 | 24°18 | 23°54 | 7°13 | 24°58 | 7°47 | 17°D47 | 16°44 | 18°31 | 17°42 | W19 |
| T 20 F 21 | 1 51 42 1 55 39 | 26° 4'42 27° 4'25 | 6Ω 2 20°14 | 2° 4 3°40 | 1°49 3° 4 | 25°43 26°21 | 24°23 24°27 | 23°59 24° 4 | 7°11 7°9 | 24°57 24°55 | 7°46 7°45 | 17°47 17°R47 | 16°41 16°38 | 18°38 18°45 | 17°42 17°41 | T 20 F 21 |
| S 22 | 1 59 36 | 27 423 28° 4'10 | 4 Mp 32 | 5°16 | 3 4 4°19 | 26°59 | 24°27 24°31 | 24° 4 | 7° 8 | 24°54 | 7°43 | 17°46 | 16°35 | 18°51 | 17°41 | S 22 |
| | | | | | | | | | | _ | | | | | | |
| S 23 | 2 3 32 | 29° 3'58 | 18°55 | 6°52 | 5°34 | 27°37 | 24°35 | 24°14 | 7° 6 | 24°53 | 7°42 | 17°43 | 16°31 | 18°58 | 17°40 | S 23 |
| M24 | 2 7 29 | 0M 3'47 1° 3'39 | 3 <u>Ω</u> 19 | 8°27 10° 1 | 6°49 | 28°15 | 24°39 | 24°18 | 7° 4 | 24°52 | 7°41 | 17°37 | 16°28 | 19° 5 | 17°40 | M24 |
| T 25 W26 | 2 11 25 2 15 22 | 1° 3'39 2° 3'33 | 17°37 1 M L46 | 10° 1 11°35 | 8° 5 9°20 | 28°52 29°30 | 24°43 24°46 | 24°23 24°27 | 7° 2 7° 0 | 24°50 24°49 | 7°40 7°39 | 17°28 17°17 | 16°25 16°22 | 19°11 19°18 | 17°40 17°40 | T 25 W26 |
| T 27 | 2 13 22 2 19 18 | 3° 3'29 | 111646 15°38 | 13° 9 | 10°35 | 29°30 0 Ω 8 | 24°46 24°49 | 24°27 24°31 | 6°58 | 24°49 24°48 | 7°38 | 17°17 | 16°22 16°19 | 19°18 | 17°40 17°40 | T 27 |
| F 28 | 2 23 15 | 4° 3'26 | 29°10 | 14°42 | 10°50 | 0°46 | 24°53 | 24°36 | 6°56 | 24°47 | 7°37 | 16°52 | 16°15 | 19°24 | 17°D40 | F 28 |
| S 29 | 2 27 11 | 5° 3'26 | 12×21 | 16°14 | 13° 5 | 1°24 | 24°55 | 24°40 | 6°54 | 24°45 | 7°36 | 16°42 | 16°12 | 19°38 | 17°40 | S 29 |
| | | | | _ | | | | | | - | | _ | | | | |
| S 30 | 2 31 8 | 6° 3'27 | 25° 8 | 17°46 | 14°20 | 2° 1 | 24°58 | 24°44 | 6°52 | 24°44 | 7°34 | 16°33 | 16° 9 | 19°44 | 17°40 | S 30 |
| M31 | 2 35 5 | 7M 3'30 | 7 궁 35 | 19 M .18 | 15 M 35 | 2 ≙ 39 | 2595 1 | 24 Ω 48 | 6 II 50 | 24) 43 | 7 8 33 | 16≈27 | 16≈ 6 | 19 ≈ 51 | 17 ≈ 40 | M31 |

Delta T = 9.03 sec

NOVEMBER 1859 00:00 UT

| Day | Sid.t | 0 | D | ğ | P | ♂ | 4 | ħ |)Å(| ¥ | Р | ß | v | Ç | o k | Day |
|------|---------|-------------------|-----------------|----------------|---------------|----------------|--------|----------------|---------------|----------------|---------------|--------|-------|-------|----------------|------|
| T 1 | 2 39 1 | 8M 3'35 | 19 る 45 | 20 M 49 | 16ML50 | 3 ≙ 17 | 259 3 | 24 Ω 52 | 6°R48 | 24°R42 | 7°R32 | 16°R24 | 16≈ 3 | 19≈58 | 17≈40 | T 1 |
| W 2 | 2 42 58 | 9° 3'41 | 1≈42 | 22°19 | 18° 5 | 3°55 | 25° 5 | 24°56 | 6 Ⅱ 46 | 24) 41 | 7 8 31 | 16≈23 | 16° 0 | 20° 4 | 17°40 | W 2 |
| T 3 | 2 46 54 | 10° 3'48 | 13°31 | 23°50 | 19°21 | 4°32 | 25° 7 | 24°59 | 6°44 | 24°40 | 7°30 | 16°23 | 15°56 | 20°11 | 17°41 | T 3 |
| F 4 | 2 50 51 | 11° 3'58 | 25°19 | 25°19 | 20°36 | 5°10 | 25° 9 | 25° 3 | 6°42 | 24°39 | 7°29 | 16°23 | 15°53 | 20°18 | 17°41 | F 4 |
| S 5 | 2 54 47 | 12° 4'08 | 7 ₩ 10 | 26°49 | 21°51 | 5°48 | 25°10 | 25° 6 | 6°39 | 24°38 | 7°28 | 16°21 | 15°50 | 20°24 | 17°42 | S 5 |
| S 6 | 2 58 44 | 13° 4'21 | 19°11 | 28°17 | 23° 6 | 6°26 | 25°12 | 25°10 | 6°37 | 24°37 | 7°27 | 16°18 | 15°47 | 20°31 | 17°42 | S 6 |
| M 7 | 3 2 40 | 14° 4'34 | 1 Υ 24 | 29°46 | 24°21 | 7° 3 | 25°13 | 25°13 | 6°35 | 24°36 | 7°25 | 16°12 | 15°44 | 20°38 | 17°43 | M 7 |
| T 8 | 3 6 3 7 | 15° 4'50 | 13°54 | 1 / 14 | 25°36 | 7°41 | 25°14 | 25°16 | 6°32 | 24°35 | 7°24 | 16° 3 | 15°41 | 20°44 | 17°43 | T 8 |
| W 9 | 3 10 33 | 16° 5'07 | 26°43 | 2°41 | 26°51 | 8°19 | 25°15 | 25°19 | 6°30 | 24°34 | 7°23 | 15°51 | 15°37 | 20°51 | 17°44 | W 9 |
| T 10 | 3 14 30 | 17° 5'25 | 9 8 50 | 4° 8 | 28° 6 | 8°56 | 25°15 | 25°23 | 6°28 | 24°33 | 7°22 | 15°39 | 15°34 | 20°57 | 17°45 | T 10 |
| F 11 | 3 18 27 | 18° 5'46 | 23°15 | 5°34 | 29°21 | 9°34 | 25°16 | 25°25 | 6°26 | 24°32 | 7°21 | 15°25 | 15°31 | 21° 4 | 17°46 | F 11 |
| S 12 | 3 22 23 | 19° 6'08 | 6 Ⅱ 55 | 6°59 | 0 ∡ 37 | 10°12 | 25°16 | 25°28 | 6°23 | 24°32 | 7°20 | 15°13 | 15°28 | 21°11 | 17°47 | S 12 |
| S 13 | 3 26 20 | 20° 6'32 | 20°46 | 8°24 | 1°52 | 10°50 | 25°R16 | 25°31 | 6°21 | 24°31 | 7°19 | 15° 3 | 15°25 | 21°17 | 17°48 | S 13 |
| M14 | 3 30 16 | 21° 6'58 | 49945 | 9°48 | 3° 7 | 11°27 | 25°16 | 25°34 | 6°18 | 24°30 | 7°18 | 14°55 | 15°21 | 21°24 | 17°49 | M14 |
| T 15 | 3 34 13 | 22° 7'25 | 18°49 | 11°11 | 4°22 | 12° 5 | 25°15 | 25°36 | 6°16 | 24°29 | 7°17 | 14°51 | 15°18 | 21°31 | 17°50 | T 15 |
| W16 | 3 38 9 | 23° 7'55 | 2 Ω 54 | 12°34 | 5°37 | 12°43 | 25°15 | 25°39 | 6°14 | 24°29 | 7°16 | 14°49 | 15°15 | 21°37 | 17°51 | W16 |
| T 17 | 3 42 6 | 24° 8'26 | 17° 0 | 13°55 | 6°52 | 13°20 | 25°14 | 25°41 | 6°11 | 24°28 | 7°14 | 14°48 | 15°12 | 21°44 | 17°52 | T 17 |
| F 18 | 3 46 3 | 25° 8'59 | 1 m 5 | 15°15 | 8° 7 | 13°58 | 25°13 | 25°43 | 6° 9 | 24°27 | 7°13 | 14°48 | 15° 9 | 21°51 | 17°54 | F 18 |
| S 19 | 3 49 59 | 26° 9'33 | 15° 8 | 16°34 | 9°22 | 14°36 | 25°12 | 25°45 | 6° 6 | 24°27 | 7°12 | 14°47 | 15° 6 | 21°57 | 17°55 | S 19 |
| S 20 | 3 53 56 | 27°10'10 | 29°10 | 17°51 | 10°38 | 15°13 | 25°10 | 25°47 | 6° 4 | 24°26 | 7°11 | 14°44 | 15° 2 | 22° 4 | 17°57 | S 20 |
| M21 | 3 57 52 | 28°10'48 | 13 ♀ 7 | 19° 7 | 11°53 | 15°51 | 25° 9 | 25°49 | 6° 1 | 24°26 | 7°10 | 14°38 | 14°59 | 22°11 | 17°58 | M21 |
| T 22 | 4 1 49 | 29°11'28 | 26°59 | 20°20 | 13° 8 | 16°29 | 25° 7 | 25°51 | 5°59 | 24°25 | 7° 9 | 14°29 | 14°56 | 22°17 | 18° 0 | T 22 |
| W23 | 4 5 45 | 0 ₹ 12'10 | 10 M .41 | 21°32 | 14°23 | 17° 6 | 25° 5 | 25°52 | 5°56 | 24°25 | 7° 8 | 14°17 | 14°53 | 22°24 | 18° 1 | W23 |
| T 24 | 4 9 42 | 1°12'53 | 24°11 | 22°41 | 15°38 | 17°44 | 25° 3 | 25°54 | 5°54 | 24°24 | 7° 7 | 14° 5 | 14°50 | 22°31 | 18° 3 | T 24 |
| F 25 | 4 13 38 | 2°13'37 | 7 . ₹26 | 23°47 | 16°53 | 18°21 | 25° 0 | 25°56 | 5°51 | 24°24 | 7° 6 | 13°52 | 14°47 | 22°37 | 18° 5 | F 25 |
| S 26 | 4 17 35 | 3°14'23 | 20°23 | 24°50 | 18° 8 | 18°59 | 24°58 | 25°57 | 5°49 | 24°23 | 7° 5 | 13°41 | 14°43 | 22°44 | 18° 7 | S 26 |
| S 27 | 4 21 32 | 4°15'10 | 3 궁 3 | 25°49 | 19°23 | 19°37 | 24°55 | 25°58 | 5°46 | 24°23 | 7° 4 | 13°32 | 14°40 | 22°50 | 18° 8 | S 27 |
| M28 | 4 25 28 | 5°15'59 | 15°25 | 26°44 | 20°39 | 20°14 | 24°52 | 25°59 | 5°43 | 24°23 | 7° 3 | 13°26 | 14°37 | 22°57 | 18°10 | M28 |
| T 29 | 4 29 25 | 6°16'48 | 27°33 | 27°35 | 21°54 | 20°52 | 24°49 | 26° 0 | 5°41 | 24°23 | 7° 2 | 13°22 | 14°34 | 23° 4 | 18°12 | T 29 |
| W30 | 4 33 21 | 7 . ₹17'38 | 9≈29 | 28 √ 19 | 23 × 9 | 21 ≏ 29 | 249546 | 26 Ω 1 | 5 Ⅱ 38 | 24 米 22 | 7 8 1 | 13°D21 | 14≈31 | 23≈10 | 18 ≈ 14 | W30 |

Delta T = 9.02 sec

DECEMBER 1859 00:00 UT

| Day | Sid.t | 0 | D | ğ | φ | ð | 4 | ħ |)ţ(| ¥ | Р | R | Ω | Ç | к 0 | Day |
|------|---------|-------------------|------------------|-----------------|-----------------|-----------------|--------|----------------|---------------|------------------|---------------|----------------|-------|-------|----------------|------|
| T 1 | 4 37 18 | 8 ∡ 18'29 | 21≈18 | 28 ৴ 58 | 24 × 124 | 22 요 7 | 24°R42 | 26 Ω 2 | 5°R36 | 24°R22 | 7°R 0 | 13≈21 | 14≈27 | 23≈17 | 18 ≈ 16 | T 1 |
| F 2 | 4 41 14 | 9°19'21 | 3) 5 | 29°30 | 25°39 | 22°44 | 249538 | 26° 3 | 5 Ⅱ 33 | 24) 22 | 6 8 59 | 13°21 | 14°24 | 23°24 | 18°19 | F 2 |
| S 3 | 4 45 11 | 10°20'14 | 14°56 | 29°54 | 26°54 | 23°22 | 24°34 | 26° 3 | 5°31 | 24°22 | 6°58 | 13°R21 | 14°21 | 23°30 | 18°21 | S 3 |
| S 4 | 4 49 7 | 11°21'07 | 26°56 | 0ට 9 | 28° 9 | 23°59 | 24°30 | 26° 4 | 5°28 | 24°22 | 6°57 | 13°20 | 14°18 | 23°37 | 18°23 | S 4 |
| M 5 | 4 53 4 | 12°22'02 | 9 Υ 11 | 0°R15 | 29°24 | 24°37 | 24°26 | 26° 4 | 5°26 | 24°22 | 6°57 | 13°16 | 14°15 | 23°44 | 18°25 | M 5 |
| T 6 | 4 57 1 | 13°22'57 | 21°44 | 0°10 | 0 云 39 | 25°14 | 24°22 | 26° 4 | 5°23 | 24°D22 | 6°56 | 13°10 | 14°12 | 23°50 | 18°28 | T 6 |
| W 7 | 5 0 57 | 14°23'53 | 4 8 39 | 29 × 755 | 1°55 | 25°52 | 24°17 | 26°R 4 | 5°21 | 24°22 | 6°55 | 13° 2 | 14° 8 | 23°57 | 18°30 | W 7 |
| T 8 | 5 4 54 | 15°24'50 | 17°58 | 29°28 | 3°10 | 26°29 | 24°12 | 26° 4 | 5°18 | 24°22 | 6°54 | 12°52 | 14° 5 | 24° 4 | 18°33 | T 8 |
| F 9 | 5 8 50 | 16°25'47 | 1Ⅱ39 | 28°50 | 4°25 | 27° 7 | 24° 7 | 26° 4 | 5°16 | 24°22 | 6°53 | 12°42 | 14° 2 | 24°10 | 18°35 | F 9 |
| S 10 | 5 12 47 | 17°26'46 | 15°41 | 28° 1 | 5°40 | 27°44 | 24° 2 | 26° 4 | 5°13 | 24°22 | 6°52 | 12°33 | 13°59 | 24°17 | 18°38 | S 10 |
| S 11 | 5 16 43 | 18°27'45 | 29°58 | 27° 2 | 6°55 | 28°22 | 23°57 | 26° 4 | 5°11 | 24°22 | 6°52 | 12°25 | 13°56 | 24°24 | 18°40 | S 11 |
| M12 | 5 20 40 | 19°28'45 | 149525 | 25°53 | 8°10 | 28°59 | 23°51 | 26° 3 | 5° 9 | 24°22 | 6°51 | 12°19 | 13°53 | 24°30 | 18°43 | M12 |
| T 13 | 5 24 36 | 20°29'46 | 28°55 | 24°37 | 9°25 | 29°37 | 23°46 | 26° 3 | 5° 6 | 24°23 | 6°50 | 12°16 | 13°49 | 24°37 | 18°46 | T 13 |
| W14 | 5 28 33 | 21°30'48 | 13 Ω 24 | 23°16 | 10°40 | 0 M J14 | 23°40 | 26° 2 | 5° 4 | 24°23 | 6°49 | 12°D16 | 13°46 | 24°43 | 18°49 | W14 |
| T 15 | 5 32 30 | 22°31'51 | 27°46 | 21°53 | 11°55 | 0°51 | 23°34 | 26° 1 | 5° 1 | 24°23 | 6°48 | 12°16 | 13°43 | 24°50 | 18°52 | T 15 |
| F 16 | 5 36 26 | 23°32'55 | 11 m 59 | 20°31 | 13°10 | 1°29 | 23°28 | 26° 0 | 4°59 | 24°23 | 6°48 | 12°18 | 13°40 | 24°57 | 18°54 | F 16 |
| S 17 | 5 40 23 | 24°33'59 | 26° 2 | 19°12 | 14°25 | 2° 6 | 23°22 | 25°59 | 4°57 | 24°24 | 6°47 | 12°R18 | 13°37 | 25° 3 | 18°57 | S 17 |
| S 18 | 5 44 19 | 25°35'05 | 9 ≙ 54 | 17°59 | 15°40 | 2°43 | 23°16 | 25°58 | 4°54 | 24°24 | 6°46 | 12°17 | 13°33 | 25°10 | 19° 0 | S 18 |
| M19 | 5 48 16 | 26°36'11 | 23°35 | 16°54 | 16°55 | 3°21 | 23° 9 | 25°57 | 4°52 | 24°25 | 6°46 | 12°14 | 13°30 | 25°17 | 19° 3 | M19 |
| T 20 | 5 52 12 | 27°37'19 | 7 M ₊ 4 | 15°58 | 18°10 | 3°58 | 23° 2 | 25°55 | 4°50 | 24°25 | 6°45 | 12° 9 | 13°27 | 25°23 | 19° 6 | T 20 |
| W21 | 5 56 9 | 28°38'27 | 20°21 | 15°12 | 19°25 | 4°35 | 22°56 | 25°54 | 4°47 | 24°25 | 6°44 | 12° 2 | 13°24 | 25°30 | 19°10 | W21 |
| T 22 | 6 0 5 | 29°39'35 | 3 ∡ ¹25 | 14°37 | 20°40 | 5°13 | 22°49 | 25°52 | 4°45 | 24°26 | 6°44 | 11°54 | 13°21 | 25°37 | 19°13 | T 22 |
| F 23 | 6 4 2 | 0 ප් 40'45 | 16°17 | 14°13 | 21°55 | 5°50 | 22°42 | 25°51 | 4°43 | 24°27 | 6°43 | 11°46 | 13°18 | 25°43 | 19°16 | F 23 |
| S 24 | 6 7 59 | 1°41'54 | 28°56 | 14° 0 | 23°10 | 6°27 | 22°35 | 25°49 | 4°41 | 24°27 | 6°42 | 11°39 | 13°14 | 25°50 | 19°19 | S 24 |
| S 25 | 6 11 55 | 2°43'04 | 11 る 21 | 13°D56 | 24°25 | 7° 5 | 22°28 | 25°47 | 4°39 | 24°28 | 6°42 | 11°34 | 13°11 | 25°57 | 19°23 | S 25 |
| M26 | 6 15 52 | 3°44'15 | 23°34 | 14° 2 | 25°40 | 7°42 | 22°20 | 25°45 | 4°36 | 24°28 | 6°41 | 11°30 | 13° 8 | 26° 3 | 19°26 | M26 |
| T 27 | 6 19 48 | 4°45'25 | 5≈35 | 14°17 | 26°55 | 8°19 | 22°13 | 25°43 | 4°34 | 24°29 | 6°41 | 11°28 | 13° 5 | 26°10 | 19°29 | T 27 |
| W28 | 6 23 45 | 5°46'36 | 17°29 | 14°39 | 28° 9 | 8°56 | 22° 6 | 25°41 | 4°32 | 24°30 | 6°40 | 11°D28 | 13° 2 | 26°17 | 19°33 | W28 |
| T 29 | 6 27 41 | 6°47'46 | 29°17 | 15° 9 | 29°24 | 9°33 | 21°58 | 25°39 | 4°30 | 24°31 | 6°40 | 11°29 | 12°59 | 26°23 | 19°36 | T 29 |
| F 30 | 6 31 38 | 7°48'57 | 11) 3 | 15°45 | 0≈39 | 10°11 | 21°50 | 25°36 | 4°28 | 24°32 | 6°39 | 11°31 | 12°55 | 26°30 | 19°40 | F 30 |
| S 31 | 6 35 35 | 8 궁 50'07 | 22) (53 | 16 渘 27 | 1≈54 | 10 M .48 | 219543 | 25 Ω 34 | 4 Ⅱ 26 | 24) (32 | 6 8 39 | 11 ≈ 33 | 12≈52 | 26≈37 | 19 ≈ 43 | S 31 |

Delta T = 9.01 sec